

## The Purchasing Memo

**Date:** May 27, 2025

**To:** Governing Body

**Via:** Regina Wheeler, Public Works Department Director   
RW (May 28, 2025 15:37 MDT)

**From:** Jennifer Morrow, PE Complete Streets Division Director   
Jennifer Morrow (May 28, 2025 15:22 MDT)

**Subject:** On-Call Bridge and Culvert Maintenance and Repair

**Vendor Name:** Hasse Contracting Company, Inc.

**Munis Vendor Number:** 10609

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### ACTION:

Request for Approval of a Construction Contract in the Total Amount Not to Exceed \$4,000,000 including NMGRS for On-Call Bridge and Culvert Maintenance and Repair Services for a Term of Four Years with Hasse Contracting Company, Inc. (Jennifer Morrow, PW Complete Streets Division Director, [jlmorrow@santafenm.gov](mailto:jlmorrow@santafenm.gov))

### CONTRACT NUMBER:

The FY25 Munis contract number is 3250366.

### BACKGROUND AND SUMMARY:

The City of Santa Fe Public Works Department is establishing two on call contracts for construction services to support bridge and culvert infrastructure projects. Having two companies under contract that can perform bridge and culvert infrastructure projects provides capacity and expertise for necessary bridge and culvert maintenance and repair work throughout the City. Having multiple vendors under on-call contract also facilitates the solicitation of multiple quotations on any piece of work and selection of best value provider for a particular task.

The total amount payable to the Contractor under this Agreement, including gross receipts tax and expenses, shall not exceed \$4,000,000 over 4 years. Execution of this agreement does not constitute any promise to purchase any amount of work. Funds for these services will be identified and budgeted, as needed, for each individual capital improvement project.

### ATTACHMENTS:

Construction Contract  
Procurement document: Statewide Price Agreement  
Certificate of Liability Insurance (COI)

### PRIOR APPROVALS AND SUPPORTING INFORMATION:

#### FUNDING SOURCE:

**Fund Name/Number:** Various

**Munis Org Name/Number:** Various

**Munis Object Name/Number:** Various

**Budget Officer / Designee:** Andy Hopkins **Date:** 06/09/2025

**Budget Officer Comment/Exceptions:** \_\_\_\_\_

**PROCUREMENT METHOD:**

The procurement method used was NMSA 1978, Section 13-1-129, Statewide Price Agreement  
The New Mexico Statewide Price Agreement #30-80500-22-16992 expires on March 23,2026.

**Chief Procurement Officer (CPO) / Designee:** [Signature] **Date:** 06/09/2025

**CPO Comment/Exceptions:** \_\_\_\_\_

**ASSOCIATED APPROVALS:**

**IT Components included?**  Yes |  No

**Approval:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comment/Exceptions:** \_\_\_\_\_

**Vehicles included?**  Yes |  No

**Approval:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comment/Exceptions:** \_\_\_\_\_

**Construction to City Facilities, Furniture, and/or Fixtures included?**  Yes |  No

**Approval:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comment/Exceptions:** \_\_\_\_\_

**Is this an externally funded purchase?**  Yes |  No

**If yes, what is the issuing agency:** \_\_\_\_\_

**Approval:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comment/Exceptions:** \_\_\_\_\_

**Is this a Capital Asset or Project?**  Yes |  No

**Project Ledger Number:** \_\_\_\_\_

**Approval:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comment/Exceptions:** \_\_\_\_\_

CITY OF SANTA FE  
CONSTRUCTION CONTRACT

THIS CONTRACT is made and entered into by and between the City of Santa Fe, New Mexico, hereinafter referred to as the “City,” and Hasse Contracting Company, Inc., hereinafter referred to as the “Contractor,” and is effective as of the date set forth below upon which it is executed by the Parties.

**RECITALS**

**WHEREAS**, the City, through its Governing Body, is authorized to enter into a construction Contract for the project; and

**WHEREAS**, the City has procured this Contract according to the established State and Local Purchasing procedures for contracts of the type and amount; and

The City and the Contractor hereby agree as follows:

**1. Scope of Work**

A. The Contractor shall perform the following work:

Contractor shall provide on-call bridge and culvert construction services based on State Price Agreement 30-80500-22-16992 with the scope of work of which is incorporated into this contract. Work includes, but is not limited to, construction and repairs of bridge deck surfacing and overlay, railing, substructure, superstructure elements, erosion protection and slope paving, concrete, culvert and headwalls. Associated work shall also include all aspects of traffic control, and permitting including assisting with Army Corps of Engineers permits as necessary. Contractor will effectively communicate with the City, property owners, the public, regulatory bodies, other contractors as needed for thorough planning and compliant, safe and efficient completion of each Project.

The City’s Engineers, Project Managers and Project Administrators (collectively “Project Manager”) may issue Task Orders for items described herein. The terms and conditions shall be incorporated in each Task Order issued hereunder. Once a need is identified, the Project Manager will issue a written Task Order to the Contractor detailing the services required. Upon receiving the Task Order, the Contractor shall promptly provide the Project Manager with an estimate, based upon the rates included in their ITB, a cost summary, and a proposed schedule required to complete the assignment or task. Project schedules, negotiated price, and completion dates shall be determined on project-by-project basis and dependent upon the urgency of that task. The Contractor may be required to do some of the work in phases. The City’s Project Manager may issue a Notice to Proceed by signing the Notice after the task price and schedule are finalized by the Contractor. The Contractor shall not perform any work without a Notice to Proceed signed by the Project Manager, and the City shall not pay for any work performed without a signed Notice to Proceed.

The Contractor shall be responsible for verifications of all conditions, measurements, and dimensions for bidding.

The Contractor shall be responsible for all permits, fees, and State inspections associated with the construction.

B. Project: Per Task Order

C. Distribution:

City                      Public Works Department  
737 Agua Fria Street  
Santa Fe, NM 87501

Contractor              Hasse Contracting Company, Inc.  
6613 Edith Blvd, NE  
Albuquerque, NM 87113

## 2. Compensation

A. The City shall pay to the Contractor in full payment for services satisfactorily performed, such compensation not to exceed FOUR MILLION Dollars (\$4,000,000), including gross receipts tax. The New Mexico gross receipts tax levied on the amounts payable under this Contract shall be paid by the City to the Contractor, as follows:

**The total amount payable to the Contractor under this Contract, including Alternates (if needed) gross receipts tax and expenses, shall not exceed FOUR MILLION dollars (\$4,000,000). This amount is a maximum and not a guarantee that the work assigned to be performed by Contractor under this Contract shall equal the amount stated herein. The parties do not intend for the Contractor to continue to provide services without compensation when the total compensation amount is reached. Contractor is responsible for notifying the City when the services provided under this Contract reach the total compensation amount. In no event will the Contractor be paid for services provided in excess of the total compensation amount without this Contract being amended in writing prior to those services in excess of the total compensation amount being provided.**

Payment is subject to availability of funds pursuant to the Appropriations Paragraph set forth below and to any negotiations between the parties from year to year pursuant to Paragraph 1, Scope of Work, and to approval by the City. All invoices MUST BE received by the City no later than thirty (30) days after the termination of the Fiscal Year in which the services were delivered. Invoices received after such date WILL NOT BE PAID.

The total amount payable to the Contractor under this Contract, including gross receipts tax and expenses, shall not exceed FOUR MILLION dollars (\$4,000,000). The City shall pay to the Contractor in full payment for services satisfactorily performed pursuant to the Scope of Work at the rate of one million dollars (\$1,000,000) including gross receipts tax per fiscal year in FY25 through FY29.

B. Payment in future fiscal years is subject to availability of funds pursuant to the Appropriations Paragraph set forth below and to any negotiations between the parties from year to year pursuant to Paragraph 1, Scope of Work, and to approval by the City.

All invoices MUST BE received by the City no later than fifteen (15) days after the termination of the Fiscal Year in which the services were delivered. Invoices received after such date WILL NOT BE PAID.

C. Contractor must submit a detailed statement accounting for all services performed and expenses incurred. If the City finds that the services are not acceptable, within thirty days after the date of receipt of written notice from the Contractor that payment is requested, it shall provide the Contractor a letter of exception explaining the defect or objection to the services, and outlining steps the Contractor may take to provide remedial action. Upon certification by the City that the services have been received and accepted, payment shall be tendered to the Contractor within twenty-one days after the date of acceptance. If payment is made by mail, the payment shall be deemed tendered on the date it is postmarked.

D. If the City fails to pay the contractor within twenty-one days after receipt of an undisputed request for payment, the City shall pay interest to the contractor beginning on the twenty-second day after payment was due, computed at one and one-half percent of the undisputed amount per month or fraction of a month until the payment is issued. If the City receives an improperly completed invoice, the City shall notify the sender of the invoice within seven days of receipt in what way the invoice is improperly completed, and the owner has no further duty to pay on the improperly completed invoice until it is resubmitted as complete.

E. **Notice of Extended Payment Provision for Grant Funded Contracts.** This contract allows the City to make payment within 45 days after submission of an undisputed request for payment for contracts funded by grant money consistent with NMSA 1978, sec. 57-28-5(B).

### 3. Term

THIS CONTRACT SHALL NOT BECOME EFFECTIVE UNTIL APPROVED IN WRITING BY THE CITY. This contract shall terminate four (4) years from date of final signature.

### 4. Termination

A. Grounds. The City may terminate this Contract for convenience or cause. For contracts within their authority, the City Manager or their designee is authorized to provide the notice of termination, otherwise such notice of termination shall be provided by the Mayor or their designee as authorized by the Governing Body. The Contractor may only terminate this Contract based upon the City's uncured, material breach of this Contract.

B. Notice; City Opportunity to Cure.

1) Except as otherwise provided in Paragraphs 7.A and 17, the City shall give Contractor written notice of termination at least thirty (30) days prior to the intended date of termination.

2) Contractor shall give City written notice of termination at least thirty (30) days prior to the intended date of termination, which notice shall (i) identify all the City's material breaches of this Contract upon which the termination is based and (ii) state what the City must do to cure such material breaches. Contractor's notice of termination shall only be effective (i) if the City does not cure all material breaches within the thirty (30) day notice period or (ii) in the case of

material breaches that cannot be cured within thirty (30) days, the City does not, within the thirty (30) day notice period, notify the Contractor of its intent to cure and begin with due diligence to cure the material breach.

3) Notwithstanding the foregoing, this Contract may be terminated immediately upon written notice to the Contractor (i) if the Contractor becomes unable to perform the services contracted for, as determined by the City; (ii) if, during the term of this Contract, the Contractor is suspended or debarred by the City; or (iii) the Contract is terminated pursuant to Paragraph 5, "Appropriations," of this Contract.

C. Liability. Except as otherwise expressly allowed or provided under this Contract, the City's sole liability upon termination shall be to pay for acceptable work performed prior to the Contractor's receipt or issuance of a notice of termination; provided, however, that a notice of termination shall not nullify or otherwise affect either party's liability for pre-termination defaults under or breaches of this Contract. The Contractor shall submit an invoice for such work within thirty (30) days of receiving or sending the notice of termination. THIS PROVISION IS NOT EXCLUSIVE AND DOES NOT WAIVE THE CITY'S OTHER LEGAL RIGHTS AND REMEDIES CAUSED BY THE CONTRACTOR'S DEFAULT/BREACH OF THIS CONTRACT.

## **5. Appropriations**

The terms of this Contract are contingent upon sufficient appropriations and authorization being made by the Governing Body for the performance of this Contract. If sufficient appropriations and authorization are not made by the Governing Body, this Contract shall terminate immediately upon written notice being given by the City to the Contractor. The City's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final. If the City proposes an amendment to the Contract to unilaterally reduce funding, the Contractor shall have the option to terminate the Contract or to agree to the reduced funding, within thirty (30) days of receipt of the proposed amendment.

## **6. Status of Contractor**

The Contractor and its agents and employees are independent contractors performing construction services for the City and are not employees of the City. The Contractor and its agents and employees shall not accrue leave, retirement, insurance, bonding, use of City vehicles, or any other benefits afforded to employees of the City as a result of this Contract. The Contractor acknowledges that all sums received hereunder are reportable by the Contractor for tax purposes, including without limitation, self-employment and business income tax. The Contractor agrees not to purport to bind the City unless the Contractor has express written authority to do so, and then only within the strict limits of that authority.

## **7. Construction Contract Performance and Payment Bond**

A. When a construction contract is awarded in excess of twenty-five thousand dollars (\$25,000), the following bonds or security shall be delivered to the City and shall become binding on the parties upon the execution of the contract. If the Contractor fails to deliver the required performance and payment bonds, the Contractor's bid shall be rejected, its bid security shall be enforced to the extent of actual damages. Award of the contract shall be made pursuant to the Procurement Code in the following manner:

(1) a performance bond satisfactory to the City, executed by a surety company authorized to do business in this state and said surety to be approved in federal circular 570 as published by the United States treasury department or the state board of finance or the local governing authority, in an amount equal to one hundred percent of the price specified in the contract; and

(2) a payment bond satisfactory to the City, executed by a surety company authorized to do business in this state and said surety to be approved in federal circular 570 as published by the United States treasury department or the state board of finance or the local governing authority, in an amount equal to one hundred percent of the price specified in the contract, for the protection of all persons supplying labor and material to the contractor or its subcontractors for the performance of the work provided for in the contract.

B. A subcontractor shall provide a performance and payment bond on a public works building project if the subcontractor's contract for work to be performed on a project is one hundred twenty-five thousand dollars (\$125,000) or more.

**8. Assignment**

The Contractor shall not assign or transfer any interest in this Contract or assign any claims for money due or to become due under this Contract without the prior written approval of the City.

**9. Subcontracting**

The Contractor shall not subcontract any portion of the services to be performed under this Contract without the prior written approval of the City. No such subcontract shall relieve the primary Contractor from its obligations and liabilities under this Contract, nor shall any subcontract obligate direct payment from the City.

**10. Release**

Final payment of the amounts due under this Contract shall operate as a release of the City, its officers and employees from all liabilities, claims and obligations whatsoever arising from or under this Contract.

**11. Confidentiality**

Any confidential information provided to or developed by the Contractor in the performance of this Contract shall be kept confidential and shall not be made available to any individual or organization by the Contractor without the prior written approval of the City.

**12. Product of Service -- Copyright**

All materials developed or acquired by the Contractor under this Contract shall become the property of the City and shall be delivered to the City no later than the termination date of this Contract. Nothing developed or produced, in whole or in part, by the Contractor under this Contract shall be the subject of an application for copyright or other claim of ownership by or on behalf of the Contractor.

**13. Conflict of Interest; Governmental Conduct Act**

A. The Contractor represents and warrants that it presently has no interest and, during the term of this Contract, shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance or services required under the Contract.

B. The Contractor further represents and warrants that it has complied with, and, during the term of this Contract, will continue to comply with, and that this Contract complies with all applicable provisions of the Governmental Conduct Act, Chapter 10, Article 16 NMSA 1978.

C. Contractor's representations and warranties in Paragraphs A and B of this Article 12 are material representations of fact upon which the City relied when this Contract was entered into by the parties. Contractor shall provide immediate written notice to the City if, at any time during the term of this

Contract, Contractor learns that Contractor's representations and warranties in Paragraphs A and B of this Article 12 were erroneous on the effective date of this Contract or have become erroneous by reason of new or changed circumstances. If it is later determined that Contractor's representations and warranties in Paragraphs A and B of this Article 12 were erroneous on the effective date of this Contract or have become erroneous by reason of new or changed circumstances, in addition to other remedies available to the City and notwithstanding anything in the Contract to the contrary, the City may immediately terminate the Contract.

D. All terms defined in the Governmental Conduct Act have the same meaning in this section.

#### **14. Amendment**

A. This Contract shall not be altered, changed or amended except by instrument in writing executed by the parties hereto and all other required signatories.

B. If the City proposes an amendment to the Contract to unilaterally reduce funding due to budget or other considerations, the Contractor shall, within thirty (30) days of receipt of the proposed Amendment, have the option to terminate the Contract, pursuant to the termination provisions as set forth in Article 4 herein, or to agree to the reduced funding.

#### **15. Change Orders**

A. Changes. The Contractor may only make changes or revisions within the Scope of Work as defined by Article 1 and/or Exhibit 1 after receipt of written approval by the City Manager or his/her designee. Such change may only be made to Tasks or Sub-Task as defined in the Scope of Work. Under no circumstance shall such change affect the:

- 1) Deliverable requirements, as outlined in the Scope of Work;
- 2) Due date of any Deliverable, as outlined in the Scope of Work;
- 3) Compensation of any Deliverable, as outlined in the Scope of Work;
- 4) Contract compensation, as outlined in Article 2; or
- 5) Contract termination, as outlined in Article 4.

B. Change Request Process. In the event that circumstances warrant a change to accomplish the Scope of Work as described above, a Change Request shall be submitted that meets the following criteria:

- 1) The Project Manager shall draft a written Change Request for review and approval by the City Manager to include:
  - (a) the name of the person requesting the change;
  - (b) a summary of the required change;
  - (c) the start date for the change;
  - (d) the reason and necessity for change;
  - (e) the elements to be altered; and
  - (f) the impact of the change.

2. The City Manager shall provide a written decision on the Change Request to the Contractor within a maximum of ten (10) Business Days of receipt of the Change Request. All decisions

made by the City Manager are final. Change Requests, once approved, become a part of the Contract, and become binding as a part of the original Contract.

**16. Merger**

This Contract incorporates all the agreements, covenants, and understandings between the parties hereto concerning the subject matter hereof, and all such covenants, agreements and understandings have been merged into this written contract.

This Contract is issued against the state or agency Master Agreement, established and maintained by the State of New Mexico, State Price Agreement 30-80500-22-16992, and through this language hereby incorporates this Contract by reference and is included in the order of precedence.

No prior Agreement or understanding, oral or otherwise, of the parties or their agents shall be valid or enforceable unless embodied in this Contract.

**17. Penalties for violation of law**

NMSA 1978, sections 13-1-28 through 13-1-199, imposes civil and criminal penalties for its violation. In addition, the New Mexico criminal statutes impose felony penalties for illegal bribes, gratuities and kickbacks.

**18. Equal Opportunity Compliance**

The Contractor agrees to abide by all federal and state laws and rules and regulations, and Santa Fe City Code, pertaining to equal employment opportunity. In accordance with all such laws of the State of New Mexico, the Contractor assures that no person in the United States shall, on the grounds of race, religion, color, national origin, ancestry, sex, age, physical or mental handicap, or serious medical condition, spousal affiliation, sexual orientation or gender identity, be excluded from employment with or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity performed under this Contract. If Contractor is found not to be in compliance with these requirements during the life of this Contract, Contractor agrees to take appropriate steps to correct these deficiencies.

**19. Applicable Law**

The laws of the State of New Mexico shall govern this Contract, without giving effect to its choice of law provisions. Venue shall be proper only in a New Mexico court of competent jurisdiction in accordance with NMSA 1978, section 38-3-2. By execution of this Contract, Contractor acknowledges and agrees to the jurisdiction of the courts of the State of New Mexico over any and all lawsuits arising under or out of any term of this Contract.

**20. Workers Compensation**

The Contractor agrees to comply with state laws and rules applicable to workers compensation benefits for its employees. If the Contractor fails to comply with the Workers Compensation Act and applicable rules when required to do so, this Contract may be terminated by the City.

## **21. Other Insurance**

If the services contemplated under this Contract will be performed on or in City facilities or property, Contractor shall maintain in force during the entire term of this Contract, the following insurance coverage(s), naming the City as additional insured.

A. **Commercial General Liability** insurance shall be written on an occurrence basis and be a broad as ISO Form CG 00 01 with limits not less than \$2,000,000 per occurrence and \$2,000,000 in the aggregate for claims against bodily injury, personal and advertising injury, and property damage. Said policy shall include broad form Contractual Liability coverage and be endorsed to name the City of Santa Fe their officials, officers, employees, and agents as additional insureds.

B. **Business Automobile Liability** insurance for all owned, non-owned automobiles, with a combined single limit not less than \$1,000,000 per accident.

C. **Broader Coverage and Limits.** The insurance requirements under this Contract shall be the greater of (1) the minimum coverage and limits specified in this Contract, or (2) the broader coverage and maximum limits of coverage of any insurance policy or proceeds available to the Named Insured. It is agreed that these insurance requirements shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums required herein. No representation is made that the minimum insurance requirements of this Contract are sufficient to cover the obligations of Contractor hereunder.

D. Contractor shall maintain the above insurance for the term of this Contract and name the City as an additional insured and provide for 30 days cancellation notice on any Certificate of Insurance form furnished by Contractor. Such certificate shall also specifically state the coverage provided under the policy is primary over any other valid and collectible insurance and provide a waiver of subrogation.

## **22. Records and Financial Audit**

The Contractor shall maintain detailed time and expenditure records that indicate the date; time, nature and cost of services rendered during the Contract's term and effect and retain them for a period of three (3) years from the date of final payment under this Contract. The records shall be subject to inspection by the City. The City shall have the right to audit billings both before and after payment. Payment under this Contract shall not foreclose the right of the City to recover excessive or illegal payments

## **23. Indemnification**

The Contractor shall defend, indemnify and hold harmless the City from all actions, proceeding, claims, demands, costs, damages, attorneys' fees and all other liabilities and expenses of any kind from any source which may arise out of the performance of this Contract, caused by the negligent act or failure to act of the Contractor, its officers, employees, servants, subcontractors or agents, or if caused by the actions of any client of the Contractor resulting in injury or damage to persons or property during the time when the Contractor or any officer, agent, employee, servant or subcontractor thereof has or is performing services pursuant to this Contract. In the event that any action, suit or proceeding related to the services performed by the Contractor or any officer, agent, employee, servant or subcontractor under this Contract is brought against the Contractor, the Contractor shall, as soon as practicable but no later than two (2) days after it receives notice thereof, notify the legal counsel of the City.

**24. New Mexico Tort Claims Act**

Any liability incurred by the City of Santa Fe in connection with this Contract is subject to the immunities and limitations of the New Mexico Tort Claims Act, Section 41-4-1, et. seq. NMSA 1978, as amended. The City and its “public employees” as defined in the New Mexico Tort Claims Act, do not waive sovereign immunity, do not waive any defense and do not waive any limitation of liability pursuant to law. No provision in this Contract modifies or waives any provision of the New Mexico Tort Claims Act.

**25. Invalid Term or Condition**

If any term or condition of this Contract shall be held invalid or unenforceable, the remainder of this Contract shall not be affected and shall be valid and enforceable.

**26. Enforcement of Contract**

A party's failure to require strict performance of any provision of this Contract shall not waive or diminish that party's right thereafter to demand strict compliance with that or any other provision. No waiver by a party of any of its rights under this Contract shall be effective unless express and in writing, and no effective waiver by a party of any of its rights shall be effective to waive any other rights.

**27. Notices**

Any notice required to be given to either party by this Contract shall be in writing and shall be delivered in person, by courier service or by U.S. mail, either first class or certified, return receipt requested, postage prepaid, as follows:

To the City:                   Public Works Director or Complete Streets Director  
City of Santa Fe Public Works Department  
737 Agua Fria Street  
Santa Fe, NM 87501  
rawheeler@santafenm.gov or jlmorrow@santafenm.gov

To the Contractor:       Christian Hasse  
Hasse Contracting Company, Inc.  
6613 Edith Blvd, NE  
Albuquerque, NM 87113  
chasse@hasseco.com

**28. Authority**

If Contractor is other than a natural person, the individual(s) signing this Contract on behalf of Contractor represents and warrants that he or she has the power and authority to bind Contractor, and that no further action, resolution, or approval from Contractor is necessary to enter into a binding contract.

**29. Progress Payments**

Based upon Application for Payment submitted to the City by the Contractor and Certificates for Payment issued by the City, the City shall make progress payments on account of the Contract sum to the Contractor as provided in the Contract documents for the period ending the last day of the month as follows:

Not later than twenty-one (21) days following the end of the period covered by the Application for Payment, one hundred percent (100%) of the portion of the Contract Sum properly allocable to labor, materials, and equipment incorporated in the work and one hundred percent (100%) of the portion of the Contract sum properly allocable to materials and equipment suitably stored at the site or some other location agreed upon in writing for the period covered by the Application for Payment, less the aggregate of previous payments made by the City; and upon substantial completion of the entire work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract sum, less such amounts as the City shall determine for all incomplete work and unsettled claims as provided in the Contract documents.

### **30. Final Payment**

Final payment, constituting the entire unpaid balance of the Contract sum, unless it is a disputed payment, shall be paid by the City to the Contractor within twenty-one (21) calendar days, after all deficiencies to the Contract document that were noted during the Substantial Completion Inspection and listed on the attachment to the Certificate of Substantial Completion have been corrected, and provided the Contract has been fully performed and a final Certificate for Payment has been issued by the City. In addition, the Contractor shall provide to the City a certified statement of Release of Lien (AIA Document G706A or approved form), Consent of Surety, Warranty from Prime Contractor, Warranties from Suppliers and Manufacturers, training sessions, equipment/operating manuals, and as-built drawings.

### **31. Schedule**

The Contractor shall, within five (5) days after the effective date of Notice to Proceed, prepare and submit a progress schedule covering project operations for the 30-day Contract period. This progress schedule shall be of the type generally referred to as a Critical Path Method (CPM), Critical Path Schedule (CPS), and Critical Path Analysis (CPA), and other similar designations. The CPM shall be used to control the timing and sequences of the project. All work shall be done in accordance with the CPM Planning and Scheduling. A written statement of explanation shall be submitted with the progress schedule. All costs incurred by the contractor to implement the CPM shall be borne by the Contractor and are part of their Contract.

### **32. General and Special Provisions**

A. Terms used in this Contract which are defined in the Conditions of the Contract shall have the meanings designated in those Conditions.

B. An enumeration of the Contractor's General Comprehensive Liability Insurance requirements appears in the General Conditions of the Contract for construction. Insurance requirements are also described in the Instructions to the Bidder section of the Project Manual. Contractor shall maintain adequate insurance in at least the maximum amounts, which the City could be liable under the New Mexico Tort Claims Act and shall provide proof of such insurance coverage to the City. It is the sole responsibility of the Contractor to comply with the law.

C. This Contract shall not become effective until: (1) approved by the Governing Body; and (2) signed by all parties required to sign this Contract.

D. The Contractor shall maintain detailed time records which indicate the date, time and nature of services rendered. These records shall be subject to inspection by the City, the Department of Finance and

Administration and the State Auditor. The City shall have the right to audit billings both before and after payment. Payment under this Contract shall not foreclose the right of the City to recover excessive illegal payments.

E. The Contractor warrants that the Contractor presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance or services required under this Contract.

F. The Contractor hereby warrants that the Contractor complies with the Americans with Disabilities Act, 29 CFR 1630.

G. Gender, Singular/Plural. Words of any gender used in this Contract shall be held and construed to include any other gender, and words in the singular number shall be held to include the plural, unless the context otherwise requires.

H. Captions and Section Headings. The captions and section headings contained in this Contract are for convenience of reference only, and in no way limit, define, or enlarge the terms, scope, and conditions of this Contract.

I. Certificates and Documents Incorporated. All certificates and documentation required by the provisions of the Contract shall be attached to this Contract at the time of execution and are hereby incorporated by reference as though set forth in full in this Contract to the extent they are consistent with its conditions and terms.

J. Separability. If any clause or provision of this Contract is illegal, invalid or unenforceable under present or future laws effective during the term of this Contract, then and in that event, it is the intention of the parties hereto that the remainder of this Contract shall not be affected thereby.

K. Words and Phrases. Words, phrases, and abbreviations, which have well-known technical or trade meanings used in the Contract documents shall be used according to such recognized meaning. In the event of a conflict, the more stringent meaning shall govern.

L. Relationship of Contract Documents. The Contract Documents are complementary, and any requirement of one Contract Document shall be as binding as if required by all.

M. Pursuant to NMSA 1978, section 13-1-191, reference is hereby made to the Criminal Laws of New Mexico (including NMSA 1978, sections 30-14-1, 30-24-2, and 30-41-1 through 30-41-3) which prohibit bribes, kickbacks, and gratuities, violation of which constitutes a felony. Further, the Procurement Code (NMSA 1978, sections 13-1-28 through 13-1-199) imposes civil and criminal penalties for its violation.

N. Pursuant to NMSA 1978, section 13-4-11. Reference is hereby made to the Minimum Wage on Public Works; weekly payments; posting wage scale; withholding funds.

IN WITNESS WHEREOF, the Parties have executed this Contract as of the date of the signature by the required approval authorities below.

CITY OF SANTA FE:

CONTRACTOR: Hasse Contracting Company, Inc.

\_\_\_\_\_  
ALAN WEBBER, MAYOR

DATE: \_\_\_\_\_

*Christian Hasse*

Christian Hasse (Apr 16, 2025 13:11 MDT)

\_\_\_\_\_  
Christian Hasse, VP Estimating

DATE: Apr 16, 2025

NMBTIN#: 85-0245483

City of SF Business License #: 238960

ATTEST:

\_\_\_\_\_  
ANDRÉA SALAZAR, CITY CLERK

CITY ATTORNEY'S OFFICE:

*Kevin L. Nault*

Kevin L. Nault (Apr 16, 2025 15:59 MDT)

\_\_\_\_\_  
ASSISTANT CITY ATTORNEY

APPROVED FOR FINANCES:

*Emily K. Oster*

\_\_\_\_\_  
FINANCE DIRECTOR



**State of New Mexico  
General Services Department  
Purchasing Division**

**Price Agreement Amendment**

**Awarded Vendor:**  
**3 Vendors**

Number: **30-80500-22-16992**

Amendment No.: **Two**

Term: **March 24, 2023 – March 23, 2026**

**Ship To:**  
**New Mexico Department of Transportation  
(Various locations throughout District 3)**

Procurement Specialist: **James Ortega**

Telephone No.: **(505) 795-2516**

Email: **james.ortega@gsd.nm.gov**

**Invoice:**  
**New Mexico Department of Transportation  
(As requested at Time of Order)**

**For questions regarding this contract please contact:  
Dolores Baca 505-570-7936**

**Title: Statewide Bridge & Culvert Repair**

**This amendment is to be attached to the respective Price Agreement and become a part thereof.**

**In accordance with Price Agreement provisions, and by mutual agreement of all parties, this Price Agreement is extended from March 24, 2025 to March 23, 2026 at the same price, terms and conditions.**

**Except as modified by this amendment, the provisions of the Price Agreement shall remain in full force and effect.**

**Accepted for the State of New Mexico**

*Dorothy Mendonca*

Date: 3/13/2025

Dorothy Mendonca  
New Mexico State Purchasing Agent



**State of New Mexico  
General Services Department  
Purchasing Division**

**Price Agreement Amendment**

**Awarded Vendor:  
3 Vendors**

Number: 30-80500-22-16992

Amendment No.: One

Term: March 24, 2023 – March 23, 2025

**Ship To:  
New Mexico Department of Transportation  
(Various locations throughout District 3)**

Procurement Specialist: James Ortega

Telephone No.: (505) 795-2516

**Invoice:  
New Mexico Department of Transportation  
(As requested at Time of Order)**

Email: james.ortega@gsd.nm.gov

**For questions regarding this agreement please contact:  
Dolores Baca 505-570-7936**

Title: **Statewide Bridge & Culvert Repair**

**This amendment is to be attached to the respective Price Agreement and become a part thereof.**

**In accordance with Price Agreement provisions, and by mutual agreement of all parties, this Price Agreement is extended from March 24, 2024 to March 23, 2025 at the same price, terms and conditions.**

**Except as modified by this amendment, the provisions of the Price Agreement shall remain in full force and effect.**

**Accepted for the State of New Mexico**

Date: 12/8/2023

Dorothy Mendonca  
New Mexico State Purchasing Agent

This has been signed on behalf of the State Purchasing Agent



# State of New Mexico General Services Department

## Price Agreement

**Awarded Vendor:**  
**3 Vendors – See Page 6**

Price Agreement Number: **30-80500-22-16992**

Payment Terms: **Net 30**

F.O.B.: **As Requested**

Delivery: **See Page 6**

Procurement Specialist: **James Ortega**

*JO*

Telephone No.: **(505) 795-2516**

Email: **james.ortega@gsd.nm.gov**

**Ship To:**  
**New Mexico Department of Transportation**  
**(Various locations throughout District 3)**

**Invoice:**  
**New Mexico Department of Transportation**  
**(As requested at Time of Order)**

**For questions regarding this agreement please contact:**  
**Dolores Baca 505-570-7936**

**Title: Statewide Bridge & Culvert Repair**

**Term: March 24, 2023 thru March 23, 2024**

**This Price Agreement is made subject to the “terms and conditions” as indicated on subsequent pages.**

**Accepted for the State of New Mexico**

*Valerie Paulk*

Date: *3/24/2023*

New Mexico State Purchasing Agent

**x This Agreement was signed on behalf of the State Purchasing Agent**

State of New Mexico  
General Services Department  
Purchasing Division  
Price Agreement #30-80500-22-16992

**Terms and Conditions**  
(Unless otherwise specified)

1. **General:** When the State Purchasing Agent or his/her designee issues a purchase document in response to the Vendor's bid, a binding contract is created.
2. **Variation in Quantity:** No variation in the quantity of any item called for by this order will be accepted unless such variation has been caused by conditions of loading, shipping, packing or allowances in manufacturing process and then only to the extent, if any, specified in this order.
3. **Assignment:**
  - a. Neither the order, nor any interest therein, nor any claim thereunder, shall be assigned or transferred by the Vendor, except as set forth in Subparagraph 3b or as expressly authorized in writing by the State Purchasing Agent or his/her designee. No such assignment or transfer shall relieve the Vendor from the obligations and liabilities under this order.
  - b. Vendor agrees that any and all claims for overcharge resulting from antitrust violations which are borne by the State as to goods, services, and materials purchased in connection with this bid are hereby assigned to the State.
4. **State Furnished Property:** State furnished property shall be returned to the State upon request in the same condition as received except for ordinary wear, tear and modifications ordered hereunder.
5. **Discounts:** Prompt payment discounts will not be considered in computing the low bid.
6. **Inspection:** Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for nonconformance with specifications shall be removed at the Vendor's risk and expense, promptly after notice of rejection.
7. **Inspection of Plant:** The State Purchasing Agent or his/her designee may inspect, at any reasonable time, the part of the Contractor's, or any subcontractor's plant or place of business, which is related to the performance of this contract.
8. **Commercial Warranty:** The Vendor agrees that the supplies or services furnished under this order shall be covered by the most favorable commercial warranties the Vendor gives for such to any customer for such supplies or services. The rights and remedies provided herein shall extend to the State and are in addition to and do not limit any rights afforded to the State by any other clause of this order. **Vendor agrees not to disclaim warranties of fitness for a particular purpose of merchantability.**
9. **Taxes:** The unit price shall exclude all state taxes.
10. **Packing, Shipping and Invoicing:**
  - a. The State's purchasing document number and the Vendor's name, user's name and location shall be shown on each packing and delivery ticket, package, bill of lading and other correspondence in connection with the shipments. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.
  - b. The Vendor's invoice shall be submitted duly certified and shall contain the following information: order number, description of supplies or services, quantities, unit price and extended totals. Separate invoices shall be rendered for each and every complete shipment.
  - c. Invoices must be submitted to the using agency and NOT the State Purchasing Agent.
11. **Default:** The State reserves the right to cancel all or any part of this order without cost to the State, if the Vendor fails to meet the provisions of this order and, except as otherwise provided herein, to hold the Vendor liable for any excess cost occasioned by the State due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of causes beyond the control and without the fault or negligence of the Vendor, such causes include but are not restricted to, acts of God or the public enemy, acts of the State or Federal Government, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather and defaults of

State of New Mexico  
General Services Department  
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Price Agreement #30-80500-22-16992

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subcontractors due to any of the above, unless the State shall determine that the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Vendor to meet the required delivery scheduled. The rights of the State provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.

12. **Non-Collusion:** In signing this bid the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this offer submitted to the State Purchasing Agent or his/her designee.

13. **Nondiscrimination:** Vendor doing business with the State of New Mexico must be in compliance with the Federal Civil Rights Act of 1964 and Title VII of the Act (Rev. 1979) and the Americans with Disabilities Act of 1990 (Public Law 101-336).

14. **The Procurement Code:** Sections 13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation. In addition the New Mexico criminal statutes impose felony penalties for bribes, gratuities and kickbacks.

15. **Items:** All bid items are to be NEW and of most current production, unless otherwise specified.

16. **Payment for Purchases:** Except as otherwise agreed to: late payment charges may be assessed against the user state agency in the amount and under the conditions set forth in Section 13-1-158 NMSA 1978.

17. **Workers' Compensation:** The Contractor agrees to comply with state laws and rules pertaining to Workers' Compensation benefits for its employees. If the Contractor fails to comply with Workers' Compensation Act and applicable rules when required to do so, this Agreement may be terminated by the contracting agency.

18. **Submission of Bid:** Bids must be submitted in a sealed envelope with the bid number and opening date clearly indicated on the bottom left hand side of the front of the envelope. Failure to label bid envelope will necessitate the premature opening of the bid in order to identify the bid number.

19. **Contractor Personnel:** Personnel proposed in the Contractor's written bid to the Procuring Agency are considered material to any work performed under this Price Agreement. Once a Purchase Order or contract has been executed, no changes of personnel will be made by the Contractor without prior written consent of the Procuring Agency. Replacement of any Contractor personnel, if approved, shall be with personnel of equal ability, experience, and qualifications. The Contractor will be responsible for any expenses incurred in familiarizing the replacement personnel to insure their being productive to the project immediately upon receiving assignments. Approval of replacement personnel shall not be unreasonably withheld. The Procuring Agency shall retain the right to request the removal of any of the Contractor's personnel at any time.

20. **Subcontracting:** The Contractor shall not subcontract any portion of the Price Agreement without the prior written approval of the Procuring Agency. No such subcontracting shall relieve the Contractor from its obligations and liabilities under this Price Agreement, nor shall any subcontracting obligate payment from the Agency.

21. **Records and Audit:** The Contractor shall maintain detailed time and expenditure records that indicate the date, time, nature, and cost of services rendered during this Price Agreement's term and effect, and retain them for a period of three (3) years from the date of final payment under this Price Agreement. The records shall be subject to inspection by the Agency, State Purchasing Division, Department of Finance and Administration, and for Information Technology contracts, State Chief Information Officer. The Agency shall have the right to audit billings, both before and after payment. Payment for services under this Price Agreement shall not foreclose the right of the Agency to recover excessive or illegal payments.

22. **Subcontracts:** The foregoing requirements for Contractor Personnel, Subcontracting, and Audit shall be inserted into all subcontracts from the prime contractor to the subcontractor.

State of New Mexico  
General Services Department  
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Price Agreement #30-80500-22-16992

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**New Mexico Employees Health Coverage**

A. If Contractor has, or grows to, six (6) or more employees who work, or who are expected to work, an average of at least 20 hours per week over a six (6) month period during the term of the contract, Contractor certifies, by signing this agreement, to have in place, and agrees to maintain for the term of the contract, health insurance for its New Mexico Employees and offer that health insurance to its New Mexico Employees if the expected annual value in the aggregate of any and all contracts between Contractor and the State exceeds \$250,000 dollars.

B. Contractor agrees to maintain a record of the number of its New Mexico Employees who have (a) accepted health insurance; (b) declined health insurance due to other health insurance coverage already in place; or (c) declined health insurance for other reasons. These records are subject to review and audit by a representative of the state.

C. Contractor agrees to advise all of its New Mexico Employees of the availability of State publicly financed health care coverage programs by providing each of its New Mexico Employees with, as a minimum, the following web site link to additional information: <https://bewellnm.com>.

D. For purposes of this Paragraph, the following terms have the following meanings:

- (1) "New Mexico Employee" means any resident of the State of New Mexico employed by Contractor who performs the majority of the employee's work for Contractor within the State of New Mexico, regardless of the location of Contractor's office or offices; and
- (2) "offer" means to make available, without unreasonable restriction, enrollment in one or more health coverage plans and to actively seek and encourage participation in order to achieve the goals of Executive Order 2007-049. This could include State publicly financed public health coverage programs such as *Insure New Mexico!*

**Department Price Agreement**

**Article I – Statement of Work**

Under the terms and conditions of this Price Agreement, the using agency may issue orders for items and/or services described herein.

The terms and conditions of this Price Agreement shall form a part of each order issued hereunder.

The items and/or services to be ordered shall be listed under Article IX – Price Schedule. All orders issued hereunder will bear both an order number and this Price Agreement number. It is understood that no guarantee or warranty is made or implied by either the New Mexico State Purchasing Agent or the user that any order for any definite quantity will be issued under this Price Agreement. The Contractor is required to accept the order and furnish the items and/or services in accordance with the articles contained hereunder for the quantity of each order issued.

**Article II –Term**

The term of this Price Agreement for issuance of orders shall be as indicated in specifications.

**Article III –Specifications**

Items and/or services furnished hereunder shall conform to the requirements of specifications and/or drawings applicable to items listed under Article IX - Price Schedule. Orders issued against this schedule will show the applicable price agreement item(s), number(s), and price(s); however they may not describe the item(s) fully.

**Article IV – Shipping and Billing Instructions**

Contractor shall ship in accordance with the instructions of this form. Shipment shall be made only against specific orders which the user may place with the contractor during the term indicated in Article II – Term. The Contractor shall enclose a packing list with each shipment listing the order number, price agreement number and the commercial parts number (if any) for each item. Delivery shall be made as indicated on page 1. If vendor is unable to meet stated delivery the State Purchasing Agent must be notified.

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**Article V - Termination**

The Agency may terminate this Agreement for convenience or cause. The Contractor may only terminate this Agreement based upon the Agency's uncured, material breach of this Agreement. Contractor shall give Agency written notice of termination at least thirty (30) days prior to the intended date of termination, which notice shall (i) identify all the Agency's material breaches of this Agreement upon which the termination is based and (ii) state what the Agency must do to cure such material breaches. Contractor's notice of termination shall only be effective (i) if the Agency does not cure all material breaches within the thirty (30) day notice period or (ii) in the case of material breaches that cannot be cured within thirty (30) days, the Agency does not, within the thirty (30) day notice period, notify the Contractor of its intent to cure and begin with due diligence to cure the material breach. Termination of this Contract, however, shall not affect any outstanding orders. This provision is not exclusive and shall not waive other rights and remedies afforded either party in the event of breach of contract or default. In such instances the contract may be cancelled effective immediately.

**Article VI – Amendment**

This Price Agreement may be amended by mutual agreement of the New Mexico State Purchasing Agent or his/her designee and the Contractor upon written notice by either party to the other. An amendment to this Price Agreement shall not affect any outstanding orders issued prior to the effective date of the amendment as mutually agreed upon, and as published by the New Mexico State Purchasing Agent or his/her designee. Amendments affecting price adjustments and/or the extension of a price agreement expiration date are not allowed unless specifically provided for in the bid and price agreement specifications.

**Article VII – Issuance or Orders**

Only written signed orders are valid under this Price Agreement.

**Article VIII – Packing (if applicable)**

Packing shall be in conformance with standard commercial practices.

**Article IX – Price Schedule**

Prices as listed in the price schedule hereto attached are firm.

State of New Mexico  
General Services Department  
Purchasing Division  
Price Agreement #30-80500-22-16992

**Awarded Vendors:**

**(AA) 0000048892**

**AUI Inc.**

**PO Box 9825**

**Albuquerque, NM 87119-9825**

**505-242-4848**

[darrinh@auiinc.net](mailto:darrinh@auiinc.net)

**Payment Term: Net 30**

**FOB: Destination**

**Delivery: 7420 Reading Avenue SE,  
Albuquerque, NM 87105-7823**

**NM Base Station: 7420 Reading Avenue  
SE, Albuquerque, NM 87105-7823**

**(AB) 0000047014**

**Hasse Contracting Company, Inc.**

**6613 Edith Blvd. NE**

**Albuquerque, NM 87113**

**505-400-2336**

[chasse@hasseco.com](mailto:chasse@hasseco.com)

**Payment Term: Net 30**

**FOB: Destination**

**Delivery: As Requested**

**NM Base Station: 6613 Edith Blvd. NE,  
Albuquerque, NM 87113**

**(AC) 0000094246**

**Sunland Asphalt & Construction LLC**

**1625 E. Northern Ave.**

**Phoenix, AZ 85020**

**480-458-8196**

[mdieu@sunlandasphalt.com](mailto:mdieu@sunlandasphalt.com)

**Payment Term: Net 30**

**FOB: Destination**

**Delivery: As Requested with consideration  
to material procurement and supplier  
scheduling**

**NM Base Station: 5204 2nd Street NW,  
Albuquerque, NM 87107**

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**Specifications:**

Establish a Price Agreement for the repair of bridges, concrete box culverts, retaining walls, slabs on grade and other transportation structures for the New Mexico Department of Transportation (NMDOT). This Price Agreement includes materials, labor, and equipment as per the specifications contained herein.

All work performed under this Price Agreement shall meet the specifications as set forth in this Invitation to Bid, and all applicable New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction, special provisions, standard drawings and supplemental specifications(current edition). They are available on the NMDOT website, at the following link: <http://dot.state.nm.us/content/nmdot/en/Standards.html> and they are available for purchase at the General Office Financial Control Section (505) 469-4983.

Specific sections have been referred to in bid items when most applicable, however work is not limited to specific sections listed. When applicable, Special Provisions are shown in Appendix A, additional requirements in Appendix B, C and D and NMDOT PS&E Standard Drawings.

The Vendor shall perform with its own organization at least forty percent (40%) of the work based on the total purchase order amount and comply with section 108.1 of the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction, current edition.

Pursuant to the Contractor Prequalification Rule 18.27.5 NMAC, Vendors shall obtain prequalified status with the NMDOT as a condition to submitting a bid. For information on obtaining Prequalified status please visit the following website:

<http://dot.state.nm.us/content/nmdot/en/prequalification.html>

Vendors are required to ensure that the products used in conjunction with this Price Agreement have been submitted and approved through the NMDOT Product Evaluation Program prior to placement on a project. Any Questions regarding the NMDOT Product Evaluation Program shall be directed to Product Evaluation Coordinator at (505) 819-8513 or via email at [NMDOTAPL@dot.nm.gov](mailto:NMDOTAPL@dot.nm.gov)

Drawings required for this price agreement can be accessed through the following website:

<http://dot.state.nm.us/content/dam/nmdot/Bridge/management/StatewideBridgeRepairPriceAgreementDrawings.pdf>

**Term:**

The term of this price agreement shall be for one (1) year from date of award with the option to extend for a period (s) of three (3) additional years, on a year-by-year basis, by mutual agreement of all parties and approval of the New Mexico State Purchasing Agent at the same price, terms and conditions. This price agreement shall not exceed four (4) years.

**Performance, Payment and Material Bonds:**

Upon the issuance of a purchase order, the awarded Vendor(s) must provide a performance bond, payment and materials bond equal to one hundred percent (100%) of the total purchase order. Said bonds must be provided to

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Price Agreement #30-80500-22-16992

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the requesting District Engineer or their designee prior to the commencement of work. Failure to comply shall result in the purchase order being issued to another awarded vendor and difference being charged back to the originally awarded Vendor(s).

The performance bond is to secure the NMDOT for losses and damages sustained by reason of default by Vendor. A payment bond is to guarantee that subcontractors and material suppliers on the project will be paid. The materials bond is to guarantee availability of equipment and acceptance of product.

**Tax Note:**

Price shall not include State Gross Receipts or Local Option Tax. Taxes shall be added to the purchase order and invoice at current rates as a separate item to be paid by NMDOT.

**Bidding Information:**

The conditions and specifications set out in the invitation to bid are inseparable and indivisible. Any Vendor, by submitting a bid, agrees to be bound by all such conditions and/or specifications. All conditions and specifications in the invitation to bid, and all other documents required to be submitted, shall be submitted by the Vendor in their bid package. Failure to do so or any attempt to vary or change the conditions or specifications of the invitation to bid shall, at the discretion of the State of New Mexico, constitute grounds for rejection of the entire bid.

The prices quoted herein represent the total compensation to be paid by the State of New Mexico for goods and/or services provided. It is understood that the vendor providing said goods and/or services to the State of New Mexico is responsible for payment of all costs of labor, equipment, tools, materials, federal taxes, permits, licenses, fees, and any other items necessary to complete the work provided. The prices quoted in this price agreement include an amount sufficient to cover such costs. When bidding, enter the amounts for the respective bid item unit prices to a maximum of three (3) decimal places.

**Cost for materials incorporated into the work and shipping costs shall be paid to the Contractor at the invoice cost to the Contractor from the Supplier. Markup on materials is NOT allowed. Costs for material incorporated into the work and shipping costs are not to be included in the bid amount.**

The Vendor shall be considered an independent Contractor and not an employee of the State of New Mexico. The NMDOT shall provide direction regarding the time and place of performance and compliance with rules and regulations required by this price agreement.

**Bid Review:**

NMDOT shall perform a bid analysis of all bids received for this Invitation to Bid that require the technical expertise of an engineer. This includes a determination of qualification in accordance with the technical standards and requirements of the specifications. The analysis and recommendation for award will be sent to the State Purchasing Division (SPD) for final determination and awarding.

**Method of Award:**

Method of award shall be to one or more Contractors for each district. Items shall be awarded to one or more Contractors per district, but not to exceed three (3) Contractors per group (district). This price agreement may be awarded to one (1) or more Contractors, as follows:

Items 001 to 085 – District One

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Purchasing Division  
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Items 086 to 170 – District Two  
Items 171 to 255 – District Three  
Items 256 to 340 – District Four  
Items 341 to 425 – District Five  
Items 426 to 510 – District Six

For a bid to be considered for award to a group/district, prices must be submitted for all items for that group (district). Failure to do so will result in the bid being deemed irregular and rejected from consideration for award to that group/group.

**Utilization of Vendors:**

The following procedure for the utilization of Vendors shall be used on multiple award price agreements.

1. The selection of a Vendor from a multiple award Price Agreement to complete a project shall be based on the purchase order utilizing pricing contained within this Price Agreement.
2. The District Engineer or their designee shall evaluate the estimated quantities, unit costs, total costs per item, and total project costs for each awarded Vendor.
  - a. The Vendor selected to perform the work on the project shall be the Vendor providing services for the specific project estimate at the lowest overall cost to the NMDOT and able to meet all project delivery requirements including project schedule. A Vendor **not** offering the lowest cost to the NMDOT can be used for the specific project if the Vendor providing the lowest overall cost is unable to meet all project requirements as determined and documented by the District Engineer or their designee. Any changes to the original purchase order will require a modification form signed by the District Engineer or their designee. All supporting documentation shall be maintained in the project file. A Contractor not having the lowest individual project estimate can be used if the Contractor providing the lowest estimate is unable to meet all project requirements, including project schedule, as determined and documented by the District Engineer or their designee.
  - b. If a contractor fails to respond or commit in writing within ten (10) working days from the time NMDOT requests services, including estimate and project schedule, the contractor will be deemed nonresponsive and the NMDOT will move on to the next available contractor.

**Public Works Minimum Wage Act:**

This is a Public Works Price Agreement subject to the provisions of the Public Works Minimum Wage Act, Section 13-4-11 through 13-4-17, et. Seq. NMSA 1978 as amended. Minimum Wage Rates as determined and published by the New Mexico Department of Workforce Solutions (NMDWS), Santa Fe, New Mexico shall be in effect and utilized by the Vendor during the life of this Price Agreement.

If a Vendor or Subcontractor is willfully paying employees covered by the Public Works Minimum Wage Act, lower rates than required, the Vendor or subcontractor may lose their right to proceed with the work.

**Price Agreement Order:**

For projects over sixty thousand dollars (\$60,000.00) where a purchase order has been issued, a Wage Rate Decision number must be requested by the NMDOT. The Wage Rate Decision number can be obtained through the New Mexico Department of Work Force Solutions, Public Works Section. NMDOT must be registered through the Public Works website that can be accessed at:

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<http://www.dws.state.nm.us/pwaa/LRDEmployer/Core/Login.ASPX>

**The Vendor Agrees To:**

- A. Provide competent supervision and skilled personnel to perform all work covered by this Price Agreement.
- B. Comply with all local, state, and federal laws governing safety, health and sanitation. The Vendor shall provide all safeguards, safety devices and protective equipment, and take any other needed actions necessary to protect the safety and health of employees on-the-job, the safety of the public, and to protect property in connection with the performance of the work covered by the price agreement.
- C. Indemnify and hold harmless The State of New Mexico, its officers and employees, against liability, claims, damages, losses and/or expenses arising out of bodily injury to persons or damage to property caused by, or resulting from, Vendor's and/or its employees, own negligent act(s) or omission(s) while Vendor, and/or its employees, perform(s) or fails to perform its obligations and duties under the terms and conditions of this price agreement. This hold harmless and indemnification clause is subject to the immunities, provisions and limitations of the tort claims act (41-4-1, et seq., N.M.S.A. 1978 comp.) and section 56-7-1 N.M.S.A. 1978 comp. and any amendments thereto.

It is specifically agreed between the parties executing this price agreement that it is not intended by any of the provisions of any part of the price agreement to create the public or any member thereof a third party beneficiary or to authorize anyone not a party to the price agreement to maintain a suit(s) for wrongful death(s), bodily and/or personal injury(ies) to person(s), damage(s) to property(ies) and/or any other claim(s) whatsoever pursuant to the provisions of this price agreement.

- D. Comply with state laws and rules pertaining to worker's compensation insurance coverage for its employees. If the Vendor fails to comply with the Worker's Compensation Act and applicable rules when required to do so, the purchase order may be cancelled effective immediately.
- E. Be responsible for all cleanup work on the project site and at the equipment storage areas prior to the final inspection and acceptance.
- F. Make all necessary arrangements with the appropriate railroad personnel for the railroad to provide flagging operations when required. The Contactor shall submit the invoice for the railroad flagging costs to the District Engineer or their designee and the Contractor will be reimbursed at invoice cost.

**Insurance Requirements:**

The Vendor shall procure and maintain at the Vendor's expense, insurance of the kinds and in amounts herein provided. This insurance shall be provided by insurance companies authorized to do business in the State of New Mexico and shall cover all operations under the price agreement, whether performed by the Vendor, the Vendor's agents or employees or by Sub-Contractors. All insurance provided shall remain in full force and effect for the entire period of the work, up to and including final acceptance, and the removal of all equipment, employees, agents and Sub-Contractors therefrom.

**(A) Public Liability and Automobile Liability Insurance**

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Purchasing Division  
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1. General Liability: bodily injury liability and property damage liability insurance applicable in full to the subject project shall be provided in the following minimum amounts:

Bodily Injury Liability:

\$1,000,000 each person; \$2,000,000 each occurrence  
(Annual aggregate)

Property Damage Liability:

\$2,000,000 each occurrence  
(Annual aggregate)

- a. The policy to provide this insurance is to be written on a Comprehensive General Liability Form or Commercial General Liability Form which must include the following:
    1. Coverage for liability arising out of the operation of independent Contractors
    2. Completed operation coverage
    3. Attachment of the Broad Form Comprehensive General Liability Endorsement
  - b. In the event that the use of explosives is a required part of the price agreement, the Vendor's insurance must include coverage for injury to or destruction of property arising out of blasting or explosion.
  - c. In the event that a form of work next to an existing building or structure is a required part of price agreement, the Vendor's insurance must include coverage for injury to or destruction of property arising out of:
    1. The collapse of or structural injury to building or structures due to excavation, including burrowing, filling or backfilling in connection therewith, or to tunneling, cofferdam work or caisson work or to moving, shoring, underpinning, razing or demolition of building or structures or removal or rebuilding of structural supports thereof.
  - d. Coverage must be included for injury to or destruction of property arising out of injury to or destruction of wires, conduits, pipes, mains, sewers or other similar property or any apparatus in connection therewith below the surface of the ground. If such injury or destruction is caused by or occurs during the use of mechanical equipment for the purpose of excavating, digging, or drilling, or to injury to or destruction of property at any time resulting there from.
2. Automobile liability insurance coverage for the Vendor (whether included in the policy providing general liability insurance or in a separate policy) must provide liability for the ownership, operation and maintenance of owned, non-owned, and hired cars. The limits of liability for automobile liability insurance shall be provided in the following amounts:

Bodily Injury Liability:

\$1,000,000 each person; \$2,000,000 each occurrence (annual aggregate)

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Property Damage Liability:

\$2,000,000 each occurrence (annual aggregate)

- (B) **Worker's compensation insurance:** The Vendor shall also carry Worker's Compensation Insurance or otherwise fully comply with provisions of the New Mexico Workman's Compensation Act and Occupational Disease Disablement Law.

If the Vendor is an "owner-operator" of such equipment, it is agreed that the State of New Mexico assumes no responsibility, financial or otherwise, for any injuries sustained by the "owner-operator" during the performance of said price agreement.

- (C) **Certificate of Insurance/Department as Additional Insured:** The Vendor being awarded this Price Agreement shall furnish evidence of Vendor's insurance coverage by a Certificate of Insurance. The Certificate of Insurance shall be submitted prior to award of the Price Agreement. No award will be given until Certificate of Insurance is provided as per the requirements pursuant to Public Liability and Automotive Liability per paragraph (A) 1 and (A) 2 of this subsection.

The Vendor shall have the New Mexico Department of Transportation named as an additional insured on the Comprehensive General Liability Form or Commercial General Liability Form furnished by the Vendor, pursuant to Paragraph (A) 1 and (A) 2, of this subsection. The Certificate of Insurance shall state that the coverage provided under the policy is primary over any other valid and collectible insurance.

The Certificate of Insurance shall also indicate compliance with these specifications and shall certify that the coverage shall not be changed, cancelled or allowed to lapse without giving the NMDOT thirty (30) days written notice. Also, a Certificate of Insurance shall be furnished to the New Mexico Department of Transportation on renewal of a policy or policies as necessary during the terms of this price agreement.

The NMDOT shall not issue a notice to proceed until such time as the above requirements have been met.

- (D) **Umbrella Coverage:** The insurance limits cited in the above paragraphs are minimum limits. This specification is no way intended to define what constitutes adequate insurance coverage for individual Vendor. The NMDOT will recognize following form excess coverage (Umbrella) as meeting the requirements of Subsection (A) 1.a of this price agreement, should such insurance otherwise meet all requirements of such subsections.
- (E) **Other Required Insurance:** The Vendor shall procure and maintain, when required by the NMDOT form and types of bailee insurance such as, but not limited to, builder's risk insurance, Vendor's equipment insurance, rigger's liability property insurance, etc. In an amount necessary to protect the NMDOT against claims, losses, and expenses arising from the damage, disappearance or destruction of property of others in the care, custody or control of the Vendor, including property of others being installed, erected or worked upon by the Vendor, his agents, or Sub-Contractors.
- (F) **Railroad Insurance:** In the event that railroad property is affected by the subject price agreement, the Vendor, in addition to the above requirements, shall be required to furnish a Railroad Protective Liability policy in the name of the railroad company involved. In addition, on those rails that are used by the

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National Railroad Passenger Corporation (NRPC), the Vendor will also obtain a Railroad Protective Liability Policy in the name of NRPC.

The limits of liability for the Railroad Protective Liability Policy (or policies) must be negotiated with the railroad company on a hazard and risk basis. In no event will the limits exceed the following:

Bodily Injury Liability, Property Damage Liability:

\$2,000,000 each occurrence

Liability and Physical Damage to Property:

\$6,000,000 aggregate

The limits of liability stated above apply to the coverage's as set forth in the Railroad Protective Liability Endorsement Form, subject to the terms, conditions, and exclusions found in the form.

The policy must afford coverage as provided in the Standard Railroad Protective Liability Endorsement (AASHTO Form).

The conditions listed in the above paragraphs are an integral part of this bid and shall be the conditions regulating the performance of any price agreement between the Bidder and the State of New Mexico and any Commission, Divisions, or Department thereof.

**Payments and Invoicing:**

Within fifteen (15) days after the date the NMDOT receives written notice from the Vendor that payment is requested for services, construction or items of tangible personal property delivered on site and received, the NMDOT shall issue a written certification of complete or partial acceptance or rejection of the services, construction or items of tangible personal property. If the NMDOT finds that the services, construction or items of tangible personal property are not acceptable, it shall, within thirty (30) days after the date of receipt of written notice from the Vendor that payment is requested, provide to the Vendor a letter of exception explaining the defect or objection to the services, construction or delivered tangible personal property along with details of how the Vendor may proceed to provide remedial action. Upon certification by the NMDOT that the services, construction or items of tangible personal property have been received and accepted, payment shall be tendered to the Vendor within twenty one (21) days after the date of certification. If payment is made by mail, the payment shall be deemed tendered on the date it is postmarked. After the thirtieth day from the date that written certification of acceptance is issued, late payment charges shall be paid on the unpaid balance due on the purchase order to the Vendor at the rate of one and a half (1½) percent per month. For purchases funded by state or federal grants to local public bodies, if the public body has not received the funds from the federal or state funding agency, but has already certified that the services or items of tangible personal property have been received and accepted, payments shall be tendered to the Vendor within five (5) working days of receipt of funds from that funding agency.

Final payment shall be made within twenty one (21) days after the work has been approved and accepted by the New Mexico Department of Transportation's Secretary of his/her duly authorized representative. The Vendor agrees to comply with state laws and rules pertaining to worker's compensation insurance coverage for its employees. If Vendor fails to comply with the workers' compensation act and applicable rules when required to

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do so the purchase order may be canceled effective immediately.

**Escalation Clause:**

In the event of a product cost increase, an escalation request will be submitted for review to the NMDOT on an individual basis. This measure is not intended to allow any increase in profit margin, but is solely intended to allow compensation for actual cost increases directly related to bid items.

To facilitate prompt consideration, all requests for price increase must include all information listed below:

1. Price Agreement Item Number
2. Current Item Price
3. Proposed New Price
4. Percentage of Increase
5. Mill/Supplier Notification of price increase indicating percentage of increase including justification for increase.

The NMDOT upon review of an escalation request may require additional supporting documentation prior to providing a written recommendation to the SPD. Final determination on the approval or disapproval of the escalation request will be made by SPD.

All quantities are to be measured by the District Engineer or their designee and shall be considered to be final and all payments for the same will be made on this basis.

**Quantities:**

The approximate quantities for each item are estimated and are for bidding purposes only. Actual requirements will be as determined by the District Engineer or their designee and quantities may be increased or decreased as necessary to meet actual field requirements. The State of New Mexico does not guarantee any amount of work.

**Specification for Bridge and Culvert Repair:**

The District Engineer or their designee shall issue a Purchase Order to the Contractor prior to the beginning of any work which may include the following:

- A clearly defined Scope of work for each bridge in the work assignment.
- A list of the bid items and quantities which will be used in the Work assignment. When applicable, the special provisions as shown in "APPENDIX A" and the additional requirements as shown in "APPENDIX B, C and D" will be followed. Some quantities may be estimated and stated as such at the beginning of the work assignment when field conditions or other factors may prevent an actual measurement. The Agreement of Work shall be signed by both parties when the Work assignment is issued.
- The location, schedule, and time restraint of the work assignment.
- Other specific NMDOT requirements.

The District Engineer or their designee shall have the option to suspend the Contractor's operation during special events such as the New Mexico State Fair, Albuquerque International Balloon Fiesta, etc.

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The District Engineer or their designee shall clearly define the limits of repair for bridges over a railroad and shall contact the NMDOT Bridge and Rail Bureaus to determine if additional requirements are needed.

The Contractor shall begin the necessary work at a specific location within fifteen (15) calendar days after receiving written notification. If the initial contractor is unable to start the work within the fifteen (15) calendar days, the District Engineer or their designee will have the option of going to the next lowest bidding contractor to provide the services requested.

The Contractor shall complete all work at any one location within the time period specified in the written notification from the NMDOT. Failure to do so, unless caused by weather delay or other factors not attributable to the Contractor, will result in Liquidated Damages as called out in the NMDOT's Standard Specifications for Highway and Bridge Construction, current edition, and being deducted from the money due to the Contractor for that approved work.

The Contractor shall be responsible for all cleanup work on the project site and at the equipment storage areas prior to the final inspection and acceptance. The Contractor shall be responsible for the disposal of all debris resulting from any work performed and the disposal of all debris generated by removal and repair operations at the Contractor's cost. Final payment may be withheld subject to written approval by the District Engineer or their designee.

The Contractor shall be liable for satisfactory workmanship of all operations for a period of one (1) year after initial acceptance. Any defects attributed to faulty workmanship or faulty material shall be satisfactorily repaired, at no cost to the State, in an acceptable manner and within the time limits set by the District Engineer or their designee. Defects attributed to faulty material will be resolved by the Contractor, Supplier and/or Manufacturer. If warranties are called for in the Specifications or given by a Manufacturer in excess of one (1) year, all defects shall be corrected as stated in the Specification or as given by the Manufacturer.

**Material:**

All material used shall be approved by the District Engineer or their designee. Only material incorporated into a project at any given location shall be paid for; unauthorized excess material ordered, wasted materials or materials which are unacceptable to the District Engineer, or their designee shall not be paid for. Any and all material ordered by the Contractor as described in the Purchase Order, but not incorporated into the work shall be paid for at invoice cost (unless the Contractor breeches the terms of this Price Agreement in any way) upon completion of the Contract, and said material shall become the property of the NMDOT.

**Traffic Control:**

The Contractor shall abide with the NMDOT Standard Specifications for Highway and Bridge Construction, special provisions, supplemental specifications, Section 700 on traffic control devices and with the Manual of Uniform Traffic Control Devices, Part 6 – Temporary Traffic Control (current editions). The Contractor shall submit a traffic control plan to the District Engineer or their designee three weeks prior to actual construction. The traffic control plan shall include the proposed signing, location of signs and location and type of all traffic channelization devices to be utilized, all lane closures and detours. The traffic control plan must be approved by the Traffic Engineer or their designee prior to the beginning of operations.

The Contractor shall also provide sufficient flagmen, when deemed necessary by the District Engineer or their designee, to assist with the traffic control during operations. The Contractor shall also remove or cover temporary signing that is required during nonworking hours and night-time hours. At least one lane shall remain

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open to traffic, with adequate flagging, when working on two lane road and treated roadways shall be reopened to traffic during night-time or nonworking hours.

Furnish directly (or provide through an approved subcontractor) all traffic control items at locations specified including submittals of Traffic Control Plans (TCP), in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). No traffic control at a given location shall be paid for if no Work is being performed and the location could be (or is) open to traffic. At the discretion of the District Engineer or their designee, the TCP shall be submitted on 11"x17" sheets and shall be computer generated. The TCP will be submitted at least five (5) working days before work is to commence and will be approved by the District Engineer or their designee.

Traffic Control Locations

1. Urban traffic control - (within corporate limits of urban areas as designated by the District Engineer or their designee) to include all signing and traffic channelization devices for adequate handling of traffic in accordance with the MUTCD, including furnishing plans for same, per lane per site typically including (but not limited to) sequential arrow display, delineation devices, signing and barricades.
2. Rural traffic control - (areas not within designated corporate limits or as designated by the District Engineer or their designee) to include all signing and traffic channelization devices for adequate handling of traffic in accordance with the MUTCD, including furnishing plans for same, per lane per site typically including (but not limited to) sequential arrow display, delineation devices, signing and barricades.

Payment for traffic control items will begin when traffic is diverted from the travelled lane or when the Contractor begins their work. Payment will end when the assigned work has been completed. There will be no payment for time taken to set up or remove traffic control.

Any discounts will be applied to the invoice costs submitted to the NMDOT. **All materials incorporated shall be invoiced separately including all applicable discounts (if any). Materials will be paid for under bid items 085, 170, 255, 340, 425, or 510 depending on where the project is located.**

**Invoice To:**

General Office  
1120 Cerrillos Road  
Santa Fe, NM 87504-1149

NM Department of Transportation  
District One  
2912 E. Pine St.  
Deming, NM 88030-0231

NM Department of Transportation  
District Two  
P.O. Box 1457  
Roswell, NM 88202-1457

NM Department of Transportation

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District Three  
P.O. Box 91750  
Albuquerque, NM 87199-1750  
NM Department of Transportation  
District Four  
P.O. Box 10  
Las Vegas, NM 87701-0010

NM Department of Transportation  
District Five  
P.O. Box 4127  
Santa Fe, NM 87502-4127

NM Department of Transportation  
District Six  
P.O. Box 2160  
Milan, NM 87021-2159

**Mobilization:**

Payment for mobilization is for moves within the State of New Mexico from the Contractor's designated base station to any job site as required. No payment will be made for moves of less than twenty-five (25) miles. Mileage will be measured and paid from the Contractor's designated base station to the job site or when applicable mileage will be measured from an existing job site to the new job site and payment will be for whichever distance is less. No payment will be made for the Contractor's return to his/her designated base station. The District Engineer or their designee will approve the distance used for payment and their decision shall be final. For the purpose of this item, the Contractor shall designate a New Mexico base station \_\_\_\_\_.

Sketches included in the Price Agreement are examples of proposed work for bid items:

- Item 035, 120, 205, 290, 375, or 460 (Dwg. BCRPA-1) Strip Seal Joint Full Depth Replacement at Abutments
- Item 036, 121, 206, 291, 376, or 461 (Dwg. BCRPA-2) Strip Seal Joint Full Depth Replacement at Piers
- Item 037, 122, 207, 292, 377, or 462 (Dwg. BCRPA-3) Strip Seal Joint Partial Depth Replacement
- Item 038, 123, 208, 293, 378, or 463 (Dwg. BCRPA-4) Joint Seals
- Item 039, 124, 209, 294, 379, or 464 (Dwg. BCRPA-5) Pre-Molded Joint Seal
- Item 040, 125, 210, 295, 380, or 465 (Dwg. BCRPA-6) Pre-Molded Joint Seal with Concrete Removal
- Item 042, 127, 212, 297, 382, or 467 (Dwg. BCRPA-7) Substructure Replacement
- Item 043, 128, 213, 298, 383, or 468 (Dwg. BCRPA-8) Backwall Replacement

All quantities are to be measured by the District Engineer or their designee and shall be considered to be final and all payments for the same will be made on this basis.

**APPENDIX "A"**  
**Special Provisions Modifying**

The NMDOT Standard Specifications for Highway and Bridge Construction, current edition shall apply in addition to the following:

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## **Section 207: Subgrade Preparation**

Replace the following sub-section with:

### **207.3 Construction Requirements**

With the exception of soils with a PI of 15 or greater, maximum dry density of all other soil types encountered or used will be determined in accordance with AASHTO T 180 (Modified Proctor), Method A or D (TTCP Modified). For soils with a PI of 15 or greater, maximum dry density will be determined in accordance with AASHTO T 99 (Standard Proctor).

The Contractor shall ensure the top two (2) ft. of borrow materials in the finished Subgrade is comprised of material with the design R-value.

The Contractor shall compact the top six (6) inches of the Roadbed to 95% of maximum density.

The Contractor shall ensure the soil moisture content (at the time of compaction) is from optimum to optimum minus five percent (5%). For soils with a PI of 15 or greater, the Contractor shall ensure the moisture content of the soil at the time of compaction is from optimum moisture to optimum moisture plus four percent (4%).

Field density tests shall be performed in accordance with AASHTO T310 or by other Department approved methods and Section 906, "Minimum Testing Requirements."

At locations where rock (shale, siltstone, or sandstone) is present at subgrade elevations, the Contractor shall remove all loose rock. The Contractor shall proof-roll the surface of the existing rock in accordance with Section 203-A.3.2, "Acceptance" to the satisfaction of the State Geotechnical Engineer prior to the placement of fill in fill sections or the proposed pavement section in cut sections. The Contractor shall backfill, any voids created by removal of loose rock, with base course and compact prior to proofrolling operations. The Contractor shall treat areas determined to be unstable in accordance with Section 203-A, "Unstable Subgrade Stabilization". Areas determined to have unsuitable Materials shall be treated in accordance with Section 203.2.1.5, "Unsuitable Material". Rock shall not be scarified and then compacted.

## **Section 511: Concrete Structures**

Replace the following sub-section with:

### **511.1 DESCRIPTION**

This work consists of constructing concrete box culverts, headwalls, retaining walls, abutments, bents, piers, slabs, girders, and Incidental Structures requiring the use of concrete, except pre-stressed members. See Section 512 for additional information related to superstructure concrete.

Delete reference to **Class 4, Special Surface Treatment**. The Contractor shall meet **Coating of Concrete System** requirements for the following subsections:

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**Section 511.3.9.2 Class 1, Ordinary Surface Finish**  
**Section 511.3.9.3 Class 2, Rubbed Surface Finish**  
**Section 511.3.9.5 Class 4, Special Surface Finish**  
**Section 511.3.10.2 Method 2, Curing Compound**

Delete the following Pay Item from **Section 511.5 Basis of Payment**:

<b>Pay Item</b>	<b>Pay Unit</b>
Substructure Concrete, Class _____	Cubic Yard

Add the following to **Section 511.5.1 Work Included in Payment**:

10. All provisions of Specification Sections 509, 510, 511, and 512. In the event of a conflict, the more stringent shall apply; and
11. Welded wire fabric.

**Section 512: Superstructure Concrete**

Delete the following Pay Item from **Section 512.5 Basis of Payment** and replace with the following:

The Department will pay for Superstructure Concrete and High Performance Concrete (HPD) in accordance with **Section 511.5: Basis of Payment**.

<b>Pay Item</b>	<b>Pay Unit</b>
Structural Concrete, Class AA	Cubic Yard
Structural Concrete, Class HPD	Cubic Yard

**Section 514: Concrete Barrier Railings for Bridges**

Add the following to **Section 514.5.1 Work Included in Payment**:

5. Two (2) Bridge number plates for every Bridge.

**Section 532: Penetrating Water Repellent Treatment**

Delete reference to **Class 4, Special Surface Treatment**. The Contractor shall meet **Coating of Concrete System** requirements for the following subsections:

**Section 532.2 MATERIALS**  
**Section 532.3.2.3 Application**

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Replace the following sub-section with:

**532.5.1 Work Included in Payment**

Penetrating Water Repellent Treatment applied to surfaces of new concrete structures will be considered as included in the payment for the main items and will not be paid for separately.

**Section 533-A: Carbon Fiber Reinforcement****533-A.1 DESCRIPTION**

This Work consists of applying bonded Carbon Fiber Reinforcement for strengthening concrete structures. This Specification does not include design aspects of the Carbon Fiber Reinforcement, and the extent and limitations of the repair and retrofit of an existing concrete Structure.

**533-A.2 MATERIALS****533-A.2.1 Carbon Fiber Reinforcement Fabric and/or Laminate**

The Contractor shall use high strength, high modulus Carbon Fiber Reinforcement fabric (fabric) of the type and size indicated in the Contract.

The Contractor shall use Carbon Fiber Reinforcement fabric that meets the manufacturer specified properties as indicated in the Contract.

**533-A.2.2 Primer Coat**

The Contractor shall use a primer coat that is a two (2) component, 100% solids, moisture tolerant high modulus, high strength epoxy.

**533-A.2.3 Fabric Saturant**

The Contractor shall use a saturant resin that is two (2) component, 100% solids, moisture tolerant, high modulus, and high strength epoxy.

**533-A.2.4 Control of Materials**

The Contractor shall deliver and store the specified Materials in original containers with seals unbroken, and labels intact and legible with verification of date of manufacture and shelf life. The Contractor shall store catalysts and initiators separately. All components shall be protected from dust, moisture, chemicals, direct sunlight, physical damage, fire and temperatures outside the range specified in the Carbon Fiber Reinforcement data sheets by the Contractor. The Contractor shall not incorporate into the Work any component that has been stored in a condition different from that stated above and shall dispose of these components.

**533-A.2.5 Shelf Life**

The Contractor shall not incorporate, into the Work, any components of Carbon Fiber Reinforcement, especially resins and adhesives that have been stored longer than the shelf life specified on the data sheet and shall dispose of these outdated components.

**533-A.2.6 Handling**

The Contractor shall handle all components of Carbon Fiber Reinforcement, especially fiber sheets, in accordance with the manufacturer's recommendations to protect them from damage and to avoid misalignment or breakage of the fibers by pulling, separating, wrinkling, or by folding the sheets. After cutting, the Contractor

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shall either dry-stack the sheets with separators, or roll the sheets at a radius no tighter than 12 inches or as recommended by the manufacturer.

### **533-A.2.7 Safety Hazards**

The Contractor shall handle with care all components of Carbon Fiber Reinforcement, especially resins and adhesives, to avoid safety hazards, including but not limited to skin irritation and sensitization and breathing vapors and dusts. The Contractor shall monitor the mixing of resins to avoid fuming, fire hazards, or violent boiling. The Contractor shall be responsible to ensure that all components of Carbon Fiber Reinforcement at all stages of Work conform to the local, state, and federal environmental and worker's safety laws and regulations.

### **533-A.3 CONSTRUCTION REQUIREMENTS**

The Contractor's installation means and methods shall be in accordance with the manufacturer's installation recommendations. In the event of conflict with this Specification, the manufacturer's requirements shall govern.

#### **533-A.3.1 Control of Work**

The Contractor shall comply with the current editions of the following applicable standards unless otherwise specified herein:

1. ASTM D3039 (1995a), "Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials";
2. ICC AC125 (2003), "Interim Criteria for Concrete and Reinforced and Unreinforced Masonry Strengthening Using Fiber-Reinforced Polymer (FRP) Composite Systems";
3. ICC AC178 (2001), "Acceptance Criteria for Inspection and Verification of Concrete and Reinforced and Unreinforced Masonry Strengthening Using Fiber Reinforced Polymer Composite Systems";
4. ACI 440.2R-08, "Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures";
5. ACI 440-R-07 Report on Fiber-Reinforced Plastic (FRP) Reinforcement for Concrete Structures;
6. ACI 440 R-96, State-of-the-Art Report on Fiber Reinforced Plastic (FRP) Reinforcement for Concrete Structures;
7. ACI 503 R, Chapter 5, Pull-off test to determine FRP adhesion to concrete substrate; and
8. International Concrete Repair Institute (ICRI) Guide for the Selection of Strengthening Systems for Concrete Structures.

#### **533-A.3.2 Qualifications**

The Contractor shall meet the following requirements for qualification:

1. The Contractor or Subcontractor shall have a minimum of five (5) years of experience applying Carbon Fiber Reinforcement to existing concrete elements or ten (10) documented similar field applications with acceptable reference letters from respective owners. The Contractor or Subcontractor shall have in their employment field personnel with a minimum of five (5) years of experience in construction using epoxy resin adhesive Material.
2. In lieu of the requirement above, the Contractor may demonstrate, through a construction mockup, that they are capable of installing the Carbon Fiber Reinforcement to the requirements of this Specification.

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For the mockup, an area of Carbon Fiber Reinforcement of at least four (4) feet in width by four (4) feet in length shall be installed at a location on the Structure to be determined by the Project Manager.

**533-A.3.3 Submittals**

The Contractor shall submit the following to the Project Manager for review and Acceptance:

1. Health and Safety Sheets and Material Safety Data Sheets (MSDS) of each product, used on site and certification that the Materials conform to local, state and federal environmental and worker's safety laws and regulations;
2. Manufacturer's product data indicating product standards, physical and chemical characteristics, environmental durability, technical Specifications, limitations, installation instructions, maintenance instructions, and general recommendations for the proposed fiber and epoxy to be supplied;
3. Certification from the manufacturer of the system's Material properties including previously completed ASTM D3039 test results of the proposed system; and
4. Daily construction logs that include the following information: weather and temperature at application times; amount of product used and square footage/linear footage of substrate covered; batch numbers of all products used.

**533-A.3.4 Preparation**

The Contractor shall ensure availability of sufficient labor, Equipment and Materials to apply Carbon Fiber Reinforcement in accordance with the Contract requirements.

The Contractor shall inspect surfaces to receive the Work and report immediately in writing to the Project Manager any deficiencies in the surface that render it unsuitable for proper execution of this Work.

**533-A.3.5 Substrate Repair and Surface Preparation of Existing Concrete Surfaces**

All necessary repair and restoration of concrete section shall be approved by the Project Manager prior to surface preparation. The Contractor shall repair concrete substrate, if necessary, and shall clean and prepare the concrete surfaces prior to installing Carbon Fiber Reinforcement. The Contractor shall ensure that all concrete surfaces are dry and free of surface moisture and frost and shall test to evaluate moisture transmission in accordance with ASTM D4263 "Indicating Moisture in Concrete by the Plastic Sheet Method".

The Contractor shall repair all defective areas of concrete substrate. This Work shall be in accordance with Section 533, "Concrete Structure Repair". The Contractor shall allow repair areas to cure before Carbon Fiber Reinforcement application.

All concrete surfaces shall be sound. The Contractor shall remove deteriorated concrete, dust, laitance, grease, paint, curing compounds, waxes, impregnations, foreign particles, and other bond inhibiting debris from the surface by blast cleaning or equivalent mechanical means.

**533-A.3.6 Surface Grinding**

The Contractor shall remove all irregularities, unevenness, and sharp protrusions in the surface profile by grinding away to a smooth surface with less than 1/32-inch deviation. The Contractor shall use disk grinders or other similar devices to remove stain, paint, or any other surface substance that may affect the bond. The Contractor shall grind concrete surfaces to the concrete surface profile range of CSP 2-3 defined by ICRI as

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minimum surface roughness level. The Contractor shall fill voids with diameters larger than ½ inch when straight edge placed on the surface.

**533-A.3.7 Chamfering Corners**

The Contractor shall round or chamfer all outside corners and sharp edges receiving Carbon Fiber Reinforcement to a radius of ½ inch as per ACI 440.2R-08. The Contractor shall grind ridges, form lines and sharp or roughened edges greater than ¼ inch. The Contractor shall remove obstructions and embedded objects before installing the Carbon Fiber Reinforcement, if recommended by the manufacturer.

**533-A.3.8 Crack Injection**

The Contractor shall fill all cracks in the surface of concrete or the substrate wider than 0.01 inch and with spacing less than 1.5 inches or cracks wider than 1/32 inch using pressure injection of epoxy in accordance with Section 534, "Epoxy Injection". The Contractor shall install the Carbon Fiber Reinforcement no earlier than 24 hours after crack injection. The Contractor shall remove any surface roughness caused by injection.

**533-A.3.9 Surface Profiling**

After the Contractor grinds the surface, any remaining unevenness in the surface greater than that specified in Section 533-A.3.6, "Surface Grinding", including out-of-plane variations, fins, protrusions, bug holes, depressions, voids and roughened corners shall be filled and smoothed overusing putty made of epoxy resin mortar or polymer cement mortar with strength equal to or greater than the strength of the original concrete. The patching Material shall be cured a minimum of seven (7) Days before installing Carbon Fiber Reinforcement unless its curing and strength are verified by testing.

**533-A.3.10 Surface Cleaning**

The Contractor shall clean the substrate concrete and finished surface of concrete in accordance with the manufacturer's recommendations and approval of the Project Manager. Cleaning shall remove any dust, laitance, grease, oil, curing compounds, wax, impregnations, stains, paint coatings, surface lubricants, foreign particles, weathered layers or any other bond- inhibiting debris.

**533-A.3.11 Environmental Conditions for Installation**

The Contractor shall examine environmental conditions before and during installation of Carbon Fiber Reinforcement to ensure conformity to the Contract and manufacturer's recommendations. The Contractor shall not apply primers, putty, saturating resins, or adhesives on cold, frozen, damp, or wet surfaces. Ambient and concrete surface temperatures shall be within 50°- 90° F, unless specified by the manufacturer. Moisture level on all contact surfaces shall be less than 4.3% at the time of installation of Carbon Fiber Reinforcement, as evaluated according to ACI 503R-93. Moisture restrictions may be waived for resins that have been formulated for wet applications. Relative humidity at the time of Carbon Fiber Reinforcement application shall be within the range specified by the manufacturer.

The Contractor is solely responsible for fume control and shall take necessary precautions against injury to personnel or adjacent building occupants during application of tack coat and resin, etc. Contractor personnel shall use protective Equipment and area shall be well ventilated to the outside. As a minimum, the Contractor shall take the following precautions:

1. Follow all state, federal, and local safety regulations; and
2. Follow all manufacturer's safety requirements.

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**533-A.3.12 Moisture Vapor Transmission**

The Contractor shall not proceed with the application of Carbon Fiber Reinforcement if any moisture vapor transmission is present. Concrete dryness is necessary, when using elevated temperature cure. The Contractor shall inject any bubble that develops from moisture vapor transmission with the same adhesive Material used for Carbon Fiber Reinforcement, in accordance with Section 533-A.3.27.3, "Correction of Improper Application".

**533-A.3.13 Application in Inclement Weather**

When inclement weather does not allow installation of Carbon Fiber Reinforcement, the Contractor may employ auxiliary measures to correct the conditions. An auxiliary heat source may be used in cold weather to raise the ambient and concrete surface temperatures to Acceptable levels, as recommended by the manufacturer but no more than the glass transition temperature. Pressurized air may be used to dry the surface dampness.

**533-A.3.14 Application of Wet Lay-up Carbon Fiber Reinforcement**

The following specifies the necessary measures for installing wet lay-up Carbon Fiber Reinforcement using dry or pre-preged fiber sheets and saturants.

**533-A.3.14.1 Mixing of Resin Components**

The Contractor shall mix all resin components, including main agent and hardener, at proper temperature using appropriate weight ratio, for a duration specified by the manufacturer, until thorough mixing with uniform color and consistency is achieved. Resins shall not be diluted with any organic solvents such as thinner. Manual stirring and small electrically powered mixing blades are allowed. Resin shall be mixed in quantities sufficiently small enough to ensure that it can be used within its pot life. The Contractor shall not use any mixed resin that exceeds its pot life or begins to generate heat or show signs of increased viscosity, and shall properly dispose of this unusable resin. Mixing of some resins may be accompanied by noxious fumes. The Contractor shall take precautions regarding resin impact on the environment, including emission of volatile organic compounds and toxicology.

**533-A.3.14.2 Primer Coat**

A primer coat is generally required in Carbon Fiber Reinforcement. The Contractor shall apply one (1) or two (2) coats of primer on the concrete surface to penetrate its open pores in accordance with manufacturer's recommendations. The primer coat may be applied with a trowel or roller.

**533-A.3.14.3 Saturant**

The Contractor shall first apply a coat of saturating resins uniformly applied as an undercoat to all locations on the concrete surface where the Carbon Fiber Reinforcement is to be installed. The Contractor shall dispose of any mixed saturant that exceeds its pot life.

**533-A.3.14.4 Carbon Fiber Reinforcement Application**

The Contractor shall saturate the fabric with epoxy matrix as per manufacturer's recommendations. The Contractor shall apply saturated fabric to concrete surface by hand lay-up, using methods that produce a uniform, constant tensile force that is distributed across the entire width of the fabric. The Contractor shall release any entrapped air between fabric sheets and concrete surfaces or shall roll the fabric sheets in the direction parallel to the fibers, while allowing the resin to impregnate the fibers and achieve intimate contact with the substrate.

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Rolling perpendicular to the fiber direction is not allowed. The Contractor shall apply sufficient saturant on top of the fabric sheet, as overcoat, to ensure full saturation of the fibers. The Contractor shall apply undercoat and overcoat of fabric sheets with no interruption. Once installed, the Carbon Fiber Reinforcement shall be free of kink, folds, delamination, edge curling, and waviness. The Contractor shall detail all Carbon Fiber Reinforcement edges, including butt splice, termination points, and jacket edges, with thickened epoxy.

**533-A.3.15 Multiple Fiber Sheet Plies**

For multi ply Carbon Fiber Reinforcement sheet installations, the Contractor shall follow Section 533-A.3.4.4, "Carbon Fiber Reinforcement application for each additional Carbon Fiber Reinforcement sheet. The amount of resin overcoat for intermediate plies is approximately 15% - 20% greater than a single-ply installation, because the saturant serves as the overcoat for the applied ply and the undercoat for the next ply. Each ply shall be applied before the onset of complete gelation of the previous layer. The number of plies that can be applied in a single Day shall be determined based on the manufacturer's recommendations and the approval of the Project Manager. Multiple plies can also be applied in several Days. When previous layers are cured, interlayer surface preparation, such as light sanding may be required.

**533-A.3.16 Overlapping**

The Contractor shall construct a lap joint when an interruption occurs in the direction of Carbon Fiber Reinforcement. The length of lap splices shall be at least six (6) inches. The Contractor shall stagger lap splices on multiple plies and adjacent strips.

**533-A.3.17 Procedure Modification**

The Contractor may modify installation procedures as approved by the manufacturer and Bridge Engineer prior to implementing the modifications.

**533-A.3.18 Curing**

The Contractor shall not make field modifications of resin chemistry for rapid curing. The Contractor shall monitor curing of installed plies before placing subsequent plies. In case of any curing irregularity, the Contractor shall not install subsequent plies.

The Contractor shall protect finished installation of Carbon Fiber Reinforcement from rain, sand, dust, etc. using protective sheeting or other barriers. The Contractor shall not allow protective sheeting to come in contact with the finished application.

**533-A.3.19 Protective Coating and Finishing**

The Contractor shall apply protective coating on the surface of Carbon Fiber Reinforcement. The coating shall be non-vapor-barrier, flexible, waterproofing, and compatible with Carbon Fiber Reinforcement. The coating may be a polymer-modified Portland cement coating or a polymer-based latex coating. The mortar finish shall be made with silica sand between sieves No. 40 (1/64 in) and No. 6 (1/8 in), spread over the Carbon Fiber Reinforcement before the resin hardens.

**533-A.3.20 Field Quality Control**

The Contractor's field quality control procedures shall be in accordance with the following details in addition to ICC AC178, "Acceptance Criteria for Inspection and Verification of Concrete and Reinforced and Unreinforced Masonry Strengthening Using Fiber Reinforced Polymer Composite Systems." All quality control shall be by the Contractor.

**533-A.3.21 Field Records**

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The Contractor shall record batch numbers for Carbon Fiber Reinforcement and epoxy used each Day and note locations of installation. The Contractor shall measure square footage of Carbon Fiber Reinforcement and volume of epoxy used each Day. A complete report shall be submitted to the Project Manager upon Acceptance of the Work.

**533-A.3.22 Field Inspection**

The Contractor shall inspect the Carbon Fiber Reinforcement during and immediately following application of Carbon Fiber Reinforcement. The Contractor shall monitor the mixing of all epoxy components for proper ratio and adherence to manufacturer's recommendations.

**533-A.3.23 Inspection and Fiber Orientation**

The Contractor shall examine, by visual inspection, fiber or ply orientation, fiber kinks and waviness for conformity to the Contract. The Contractor shall correct deficiencies in accordance with the manufacturer's recommendations.

**533-A.3.24 Inspection for Debonding**

After at least 24 hours after the initial cure of the resin, the Contractors shall examine the surface, by visual inspection, for any swelling, bubbles, voids or delamination. If an air pocket is suspected, the Contractor shall perform an acoustic tap test with a hard object to identify delaminated areas by sound, with at least one (1) strike per one (1) square foot. The Contractor shall treat defects in accordance with Section 533-A.3.27.3, "Correction of Improper Application".

**533-A.3.25 Inspection for Cure of Resin**

The Contractor shall follow the resin manufacturer's recommendations for Acceptance criteria. If cure of resin is found unacceptable, the entire area will be marked and repaired.

**533-A.3.26 Inspection for Cured Thickness**

Carbon Fiber Reinforcement will not be Acceptable if the number of plies is less than that indicated on the Plans or if the cured thickness of Carbon Fiber Reinforcement is less than that indicated on the Plans by more than 1/1000 inch. The entire area of Carbon Fiber Reinforcement marked unacceptable shall be repaired in accordance with Section 533-A.3.27.3, "Correction of Improper Application".

**533-A.3.27 Acceptance, Rejection and Correction of Improper Carbon Fiber Reinforcement Installation**

The following criteria shall apply to the rejection of Carbon Fiber Reinforcement application.

**533-A.3.27.1 Acceptance**

Carbon Fiber Reinforcement will be accepted for full payment when all the requirements of these Specifications have been adhered to in addition to the following:

1. Material Properties. The Material properties shall be equal to the specified design values;
2. Location and Alignment Tolerances. The width of Carbon Fiber Reinforcement shall not vary from that which is shown on the Plans or approved alternate design by more than ¼ inch. The Carbon Fiber Reinforcement shall be installed along a straight line with a maximum out of straightness of one (1) inch in the ten (10) feet; and
3. System Installation Integrity. The Carbon Fiber Reinforcement shall be installed as indicated in the Contract and in accordance with manufacturer's recommendations.

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**533-A.3.27.2 Rejection**

If Carbon Fiber Reinforcement installation is not in accordance with the Contract and/or manufacturer's recommendations are not followed, the installation may be rejected.

**533-A.3.27.3 Correction of Improper Application**

The Contractor shall repair all defects, including bubbles, delamination, and fabric tears, spanning more than five percent (5%) of the surface area, or as specified by the Project Manager. Small entrapped air pockets and voids naturally occur in mixed resin systems, do not require repair or treatment. Defect repair procedures shall be provided by the manufacturer and be submitted to the Project Manager for review and Acceptance. The Contractor shall repair the following:

1. Epoxy injection of small defects. Small entrapped voids or surface discontinuities no larger than ¼ inch diameter shall not be considered defects, and require no corrective action, unless occurred next to edges or when there are more than five (5) such defects in an area of ten (10) ft<sup>2</sup>. Small defects of size between ¼- and 1¼-inch diameter shall be repaired using low pressure epoxy injection, as long as the defect is local within and does not extend through the complete thickness of the laminate in the case of multiple Carbon Fiber Reinforcement. If any delamination growth is suspected between Carbon Fiber Reinforcement plies due to injection, the procedure shall be halted and repair shall follow the patching of minor defects procedure;
2. Patching of minor defects. Minor defects are defined as those having an individual diameter of 1¼ inch to six (6) inches and frequency of less than five (5) per any surface area of ten (10) foot length or width. The area surrounding the defects to an extent of at least one (1) inch on all sides shall be carefully removed. The area shall be wiped cleaned and thoroughly dried. The area shall then be patched by adding a Carbon Fiber Reinforcement patch of the same type of the original laminate and extending at least one (1) inch on all sides of the removed area. Replacement may also be conducted using the procedure for replacement of large defects; and
3. Replacement of large defects. Defects larger than six (6) inch in diameter shall be carefully marked and scarified out extending to a minimum of one (1) inch on all sides. Scarifying shall be progressive through the layers, in the case of multi-ply Carbon Fiber Reinforcement until past the defective area. In case the defect extends to the first Carbon Fiber Reinforcement ply adjacent to the concrete, the entire thickness of Carbon Fiber Reinforcement and primer shall be removed. The substrate shall be appropriately prepared and primer re-applied after ensuring that the surface and Carbon Fiber Reinforcement are clean and dry. Application of a new Carbon Fiber Reinforcement within the scarified area shall follow procedures for the original Carbon Fiber Reinforcement, except that an additional layer extending a minimum of six (6) inches on all sides of the scarified area shall be added as a patch. A written corrective action plan shall detail the proposed repair and shall be submitted to the Project Manager for review and Acceptance.

**533-A.3.28 Clean-Up**

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The Contractor is responsible for the clean-up of the Equipment and the Project site from hazardous and aesthetically undesirable Carbon Fiber Reinforcement components using appropriate methods, as recommended in the Carbon Fiber Reinforcement data sheet.

**533-A.3.29 Disposal**

Any component of the Carbon Fiber Reinforcement that has exceeded its shelf life or pot life, or has not been properly stored, and any unused or excess Material that is deemed waste, shall be disposed of in a manner amiable to the protection of the environment and consistent with the MSDS. All debris and refuse shall be removed from the site.

**533-A.4 METHOD OF MEASUREMENT**

The Department will measure Carbon Fiber Reinforcement by the square foot per layer.

**533-A.5 BASIS OF PAYMENT**

<b>Pay Item</b>	<b>Pay Unit</b>
Carbon Fiber Reinforcement	Square Foot

**533-A.5.1 Work Included in Payment**

The following Work items will be considered as included in the payment for the main item(s) and will not be measured or paid for separately.

1. Surface preparation;
2. Construction mockup; and
3. Grinding.

**Section 533-B: Embedded Galvanic Anodes**

**533-B.1 DESCRIPTION**

Embedded galvanic anodes are designed to provide localized corrosion protection. When placed at the appropriate spacing along the perimeter of the concrete patches or along the interface between new and existing concrete, the anodes mitigate the formation of new corrosion sites in the existing concrete in adjacent areas.

The Contractor shall furnish all materials, storage, handling, tools, equipment, labor, and other appurtenances necessary to complete the work.

**533-B.2 MATERIALS**

**533-B.2.1 Embedded Galvanic Anodes**

The Contractor shall furnish pre-manufactured galvanic anodes designed for cathodic protection when embedded in concrete and tied to steel reinforcing. The core of the anode shall consist of a minimum of 100 grams (3.5 oz) of electrolytic high grade zinc in compliance with ASTM B 418 Type II cast around a pair of steel tie wires and encased in a highly alkaline cementitious shell with a pH of 14, or encased in a material that uses activation methods to assure performance. The anodes shall have one side that is less than 1-1/2" in height.

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**533-B.2.2 Repair Mortars and Concretes**

The Contractor shall use repair mortars and concretes per Section 533 - Concrete Structure Repair and shall be Portland cement based material with suitable electrical conductivity less than 15,000 ohm-cm. Repair mortars must be tested and approved acceptable, by the manufacturer of the galvanic anodes or independent testing agency, for use as a low resistive conductive material meeting the requirements of <15,000 ohm-cm. Non-conductive repair materials such as epoxy, urethane, or magnesium phosphate shall not be permitted. The repair mortars or concretes shall be submitted to the Project Manager for approval. The repair mortar and concrete material will be paid for under Section 533 - Concrete Structure Repairs.

**533-B.3 CONSTRUCTION REQUIREMENTS****533-B.3.1 Galvanic Anode Installation**

The Contractor shall install the galvanic anodes per the manufacturer's installation instructions. The manufacturer's installation instructions shall be the governing document. If manufacturer installation instructions do not exist, the following shall apply:

1. Install anodes along the perimeter of the repair or interface at a maximum spacing of 24 inches. The spacing may be reduced to match the spacing of the existing rebar.
2. Install anodes and repair material immediately following preparation and cleaning of steel reinforcement. Pre-wet the concrete surface and the anode units to achieve a saturated surface dry condition, and then complete the repair. Do not soak the anode units for greater than 20 minutes.
3. Provide sufficient clearance between anodes and substrate to allow repair material to encase anode.
4. Secure the galvanic anodes as close as possible to the patch edge using the anode tie wires. The tie wires shall be wrapped around the cleaned reinforcing steel and twisted tight to allow little or no free movement.
5. Electrical continuity
  - a. Confirm electrical connection between anode tie wire and reinforcing steel by measuring DC resistance (ohm) or potential (mV) with a multi-meter.
  - b. Electrical connection is acceptable if the DC resistance measured with multi-meter is less than 1 ohm or the DC potential is less than 1 mV.
  - c. Confirm electrical continuity of the exposed reinforcing steel within the repair area. If necessary, electrical continuity shall be established with steel tie wire.
  - d. Electrical continuity between test area is acceptable if the DC resistance measured with multi-meter is less than 1 ohm or the potential is less than 1 mV.
  - e. The Contractor shall furnish the NMDOT with a multi-meter to independently check the electrical connection. The multi-meter is to become the property of the NMDOT.

**533-B.4 METHOD OF MEASUREMENT**

The Embedded Galvanic Anodes will be measured by each.

**533-B.5 BASIS OF PAYMENT**

<b>Pay Item</b>	<b>Pay Unit</b>
Embedded Galvanic Anodes	Each

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**533-B.5.1 Work Included in Payment**

The following item will be considered as included in the payment for Embedded Galvanic Anodes and will not be measured or paid for separately:

1. Multi-meter

**Section 536: Polymer Concrete Bridge Deck Overlay**

Replace Subsection 536.3.5 “Usage Limitations” in its entirety.

**536.3.5 Usage Limitations**

The manufacturer’s application requirements shall govern. If the manufacturer does not provide guidance on the following items, the following shall apply:

- 1) PCC shall not be less than 28 Days of age at the time of overlay.
- 2) The concrete shall be dry at the time of overlay application. The criteria for “dry” shall be established by:
  - a. ASTM D 4263: for every 500 square feet, an 18 inch x 18 inch plastic sheet shall be taped to the deck with 2” duct tape. The test area shall be protected from direct sunlight, direct heat, and damage to the plastic. After 16 hours, the concrete shall be considered dry when no moisture appears on the bottom of the plastic.
  - b. It is also acceptable to use a moisture meter in conformance with ASTM F2659.
    - i. Unless otherwise directed by the manufacturer, the reading shall be 4% or less.
    - ii. The meter shall be an electrical impedance moisture meter specifically developed and calibrated for the non-destructive measurement of the comparative moisture condition in concrete floor slabs.
    - iii. The moisture meter shall be used and calibrated in accordance with the manufacturer’s written recommendations. The moisture meter manufacturer’s recommendations and the calibration data shall be provided to the Project Manager for acceptance prior to use on the project.
- 3) The air and deck temperature shall be a minimum of 40 °F at the time of overlay application, and for eight (8) hours after overlay application. Do not use artificial methods to raise the deck temperature.

For new Bridge decks with unventilated stay-in-place forms, in addition to the manufacturer’s application requirements, the Contractor shall not install the overlay on PCC that is less than 56 Days of age.

**Section 540: Steel Reinforcement**

Add the following to Section 540.2: Materials:

Delete 4. and 5. from **Section 540.2.5 Corrosion-resistant and Coated Reinforcing Bars** and replace with the following:

4. Uncoated low-carbon, chromium steel bars in accordance with AASHTO M334 or ASTM A1035; or
5. Galvanized reinforcement in accordance with ASTM A767 or ASTM A1094.

Delete 3. from **Section 540.2.6 Coating and Patching Materials** and replace with the following:

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3. Zinc-rich paint with a minimum 65% zinc content in accordance with ASTM A780 for patching damaged and uncoated areas of galvanized reinforcing bars.

Delete the first paragraph and 6. from **Section 540.2.7 Accessories** and replace with the following, respectively:

The Contractor shall provide plastic-coated reinforcing tie wire for tying epoxy-coated reinforcing bars, for deformed stainless steel bars, for stainless steel clad deformed steel bars and for uncoated low-carbon, chromium, steel deformed bars. The Contractor shall provide galvanized, annealed wire tires for galvanized bars and for hot-dip galvanized reinforcing bars.

6. Galvanized sand chairs, hot-dip galvanized wire bar supports, or other non-corrosive metal supports placed directly on the ground; or

Delete **Section 540.2.11 Hot-Dip Galvanized Reinforcing Bars** in its entirety and replace with the following:

#### **Section 540.2.11 Hot-Dip Galvanized Reinforcing Bars**

The Contractor shall choose one (1) of the options listed below when providing galvanized bars:

1. The Contractor shall provide hot-dip galvanized reinforcing bars in accordance with ASTM A767. The Contractor shall galvanize bar after cutting and bending; or
2. The Contractor shall provide continuous hot-dipped galvanized reinforcing bars (CGR) in accordance with ASTM A1094. The Contractor shall bend and cut bar after galvanizing.

Add the following to Section 540.2: Materials:

#### **540.2.13 Headed Reinforcing Bars**

Headed reinforcement shall meet the requirements of ASTM A970 “Headed Steel Bars for Concrete Reinforcement”, Annex A1, Class HA.

If headed reinforcement is not included in the Contract, the Contractor may propose the use of headed reinforcement at no additional cost to the Department.

#### **540.2.14 Mechanical Couplers**

Mechanical couplers shall meet the requirements for AASHTO M31, Grade 60, and ASTM A706, Grade 60 or ACI 318, Type 2. Mechanical coupler splice strength must be greater than or equal to 125% of the yield strength of the spliced reinforcing bars and must develop the specified tensile strength of the bars. The Contractor shall submit the coupler type (manufacturer and model number) and certified test results showing that the coupler meets these requirements.

Delete Section **540.3.1.1 Bar Lists and Bending Diagram** in its entirety and replace with the following:

#### **540.3.1.1 Bar Lists and Bending Diagram**

When the Plans do not include detailed bar lists and bending diagrams, the Contractor shall provide Shop Drawings, bar lists, bending diagrams, and estimated reinforcement quantity to the Project Manager for Bridge Engineer review and Acceptance, prior to ordering any Materials.

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When a detailed bar list and bending diagram are included on the Plans, they are included for the Contractor's information and for quantity estimation only. It is the responsibility of the Contractor to notify the Department of any errors identified in the provided bar lists and bending diagrams. Once notified, the Department will correct the identified errors as necessary and provide the Contractor with amended details. The Contractor shall provide Shop Drawings, bar bending lists, bending diagrams, and estimated reinforcement quantity to the Project Manager for Bridge Engineer review and Acceptance in advance of ordering any Materials.

The Contractor shall include the bar marks, shown on the Plans, on the bar tags and the rebar details, bar lists, and bending diagrams on the Shop Drawings. Contractor may include an alternate bar mark for fabrication purposes, but the Contractor shall also show the Plan bar marks in all locations on Shop Drawings and bar tags.

Acceptance of the Shop Drawings, bar lists, bending diagrams and estimated reinforcement quantity shall not relieve the Contractor of responsibility for correctness of the Shop Drawings, bar lists, bending diagrams, and estimated reinforcement quantity. The Contractor's detailed bar lists and bending diagrams shall meet the requirements of the current edition of the Concrete Reinforcing Steel Institute's (CRSI) publication, Manual of Standard Practice. The Contractor shall allow 30 Days for review of the submittal.

Delete **Section 540.3.1.3 Bar Bending** in its entirety and replace with the following:

**Section 540.3.1.3 Bar Bending**

The Department will allow cold bending around a pin. The Contractor shall not field bend, Grade 60 bars, epoxy coated bars or standard class hot-dip galvanized bars after galvanizing. For continuous hot-dip, galvanized reinforcing bars (CGR), the Contractor shall fabricate, bend and cut after galvanizing.

Unless otherwise directed, the Contractor shall ensure the bend diameter is in accordance with CRSI Manual of Standard Practice current edition.

Delete **Section 540.3.1.4: Splicing** in its entirety and replace with the following:

**Section 540.3.1.4: Splicing**

The Contractor shall splice bars in accordance with the Plans unless otherwise approved by the State Bridge Engineer.

The Contractor shall place and tie bars in lapped splices to maintain minimum reinforcing cover.

The Contractor shall splice spiral reinforcement by lapping. The Contractor shall ensure that laps are at least 48 bar or wire diameters, but not less than one (1) foot with 90° hooks around longitudinal bars at ends unless otherwise indicated in the Contract.

The Department will allow the use of headed reinforcing bars in accordance with Section 540.2.13, "Headed Reinforcing Bars".

The Department will allow the use of mechanical couplers in accordance with Section 540.2.14, "Mechanical Couplers".

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Unless otherwise specified, the Contractor shall ensure that welded wire fabric and bar mat reinforcement overlap is at least one (1) spacing of cross wires plus two (2) inches when measured between the outer most cross wires of each sheet.

Delete **Section 540.3.3.3: Thickness of Galvanizing** and replace with the following:

**Section 540.3.3.3: Thickness of Galvanizing**

For ASTM A1094, the Contractor shall ensure that the galvanizing after drying with air, steam or wiping is from two (2) mils to three (3) mils thick.

For ASTM A767, the Contractor shall ensure that the galvanizing after drying with air, steam or wiping is from three (3) mils to 3.9 mils thick.

The Contractor shall determine the thickness with a magnetic thickness gage. The Contractor shall submit a Certificate of Compliance.

Add the following to **Section 540.5.1: Work Included in Payment:**

4. Headed reinforcement shall be included in the reinforcing bar pay item(s). No additional weight will be added.

**Section 543: Metal Railing**

Add the following to **Section 543.5.1 Work Included in Payment:**

4. Two (2) Bridge number plates for every Bridge.

**Section 546: Recoating Structures**

Delete the Section in its entirety and replace with the following:

**546.1 DESCRIPTION**

This work consists of surface preparation and recoating existing Structural Steel. Touch-up paint of surfaces coated per Sections 544, 545 and 546 is included.

The Contractor shall adhere to Section 547 "Safety and Environmental Requirements for Painting Operations".

**546.2 MATERIALS**

Projects that require SSPC – SP 6 shall engage 546.2.2 Coating System 1, unless otherwise specified in the contract documents.

Projects that require SSPC – SP 3, SSPC – SP 11, and/or SSPC 16 shall engage 546.2.1 Coating System 2, unless otherwise specified in the contract documents.

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Reference 545.2:1 for additional information regarding coating systems that are allowable for specific elements.

If the Contract does not specify a color, the Contractor shall use the color Federal Standard 16307, RAL 7004, Pantone 423, or approved equal. If another color is specified in the Contract, the Contractor shall select an approved system that is available in the specified color.

All products shall be on the Approved Products List.

#### **546.2.1 Coating System No. 1 – Polyurethane Topcoat**

The Contractor shall select products meeting all performance requirements as listed in Table 546.2.1:1 below. Testing shall be in accordance with AASHTO R-31. All products used in a system shall be from the same manufacturer. All products shall be represented on the latest version of the manufacturer's product data sheet as being suitable for use on bridges and capable of being applied at the specified dry film thickness requirements in Table 546.3.5:1.

Epoxy Organic Zinc-Rich Primer shall achieve minimum SSPC Paint 20 Level 2 requirements for amount of zinc dust in the dry film of equal to or greater than 77% by weight. Epoxy Organic Zinc-Rich Primer shall not be required when surface preparation of SSPC – SP 3 and / or SSPC – SP 11 are employed.

Epoxy Intermediate Coat or Tie-Coat over existing finishes shall be a two-component epoxy, polyamide or polyanidoamine, including phenkamine coating with minimum solids by volume of 65%. Epoxy Intermediate Coat or Tie-Coat shall be required unless specifically excluded by the manufacturer in the compatibility confirmation letter that shall be submitted per 546.2.3.

Polyurethane Topcoat shall be a two-component aliphatic polyurethane coating with minimum solids by volume of 65%.

**Table 546.2.1:1: Acceptable Product Requirements**

Test	Ref. No.	Product(s)	Acceptance Criteria	Comments
Salt Fog Resistance	ASTM B 117	P/I/T (OZ)	(A) No Delamination Allowed (B) Rust – Max creep 8mm, Avg. creep 4mm @ 5,000 Hrs. (C) Blister – Conversion #7 @ 4,000 Hrs.	
Cyclic Weathering Resistance	ASTM D 5894	P/I/T (OZ)	(A) No Delamination Allowed (B) Rust – Max creep 8mm, Avg. creep 4mm @ 5,040 Hrs. (C) Blister – Conversion #8 @ 4,032 Hrs.	
Adhesion Pull-Off Strength	ASTM D 4541	OZ Alone P/I/T (OZ)	4.1 MPa (600 psi) 4.1 MPa (600 psi)	
Freeze-Thaw Stability	ASTM D 4541	P/I/T (OZ)	2.4 MPa (350 psi) 4.1 MPa (600 psi) 2.4 MPa (350 psi) 4.1 MPa (600 psi)	Requires same average as adhesion pull-off strength results, with no tests measuring less than 60% of those results

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Test	Ref. No.	Product(s)	Acceptance Criteria	Comments
Pull-Off Strength				
Field History	NA	P/I/T (OZ)	Five (5) Bridges with Minimum two (2) year successful field history	

P = Primer; I = Intermediate coat; T = Topcoat; OZ = Epoxy Organic Zinc Rich Primer

#### 546.2.2 Coating System No. 2 – Acrylic Topcoat

The Contractor shall select products meeting all performance requirements as listed in Table 546.2.1:1 above and 546.2.2:1 below as applicable. All products used in a system shall be from the same manufacturer. All products shall be represented on the latest version of the manufacturer's product data sheet as being suitable for use on bridges and capable of being applied at the specified dry film thickness requirements in Table 546.3.5:1.

Epoxy Organic Zinc-Rich Primer shall achieve minimum SSPC Paint 20 Level 2 requirements for amount of zinc dust in the dry film of equal to or greater than 77% by weight (Table 546.2.1:1). Epoxy Organic Zinc-Rich Primer shall not be required when surface preparation of SSPC – SP 3 and / or SSPC – SP 11 are employed.

Epoxy Intermediate Coat or Tie-Coat over existing finishes shall be a two-component epoxy, polyamide or polyamidoamine, including phenkamine coating with minimum solids by volume of 65% (Table 546.2.1:1). Epoxy Tie-Coat shall be required unless specifically excluded by the manufacturer in the compatibility confirmation letter that shall be submitted per 546.2.3.

Acrylic Topcoat shall be a high performance DTM acrylic coating with minimum solids by volume of 38% (Table 546.2.2:1).

**Table 546.2.2:1: Acceptable Product Requirements**

Test	Ref. No.	Product(s)	Acceptance Criteria	Comments
Adhesion Pull-Off Strength	ASTM D 4541	High Performance Acrylic (HPA)	> 500 lbs.	One coat applied over blasted steel
Flexibility	ASTM D 522	High Performance Acrylic (HPA)	Pass: No cracking / flaking	1/8" conical mandrel One coat applied over blasted steel
Hardness (Pencil)	ASTM D 3363	High Performance Acrylic (HPA)	Final Cure: "F"	One coat applied over blasted steel
Impact	ASTM D 2794	High Performance Acrylic (HPA)	> 140 in. lbs.	One coat applied over blasted steel

The Contractor may substitute polyurethane topcoat for acrylic topcoat at their discretion pending full system submittal and approval.

#### 546.2.3 Submittals

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In addition to the submittals require per Section 106 Control of Materials, the Contractor shall provide the following submittals to the Project Manager at least 30 Days before coating operations:

1. Product data and SDS for each product in the system
2. Surface preparation requirements
3. Application instructions
  - a. Mixing and thinning directions
  - b. Recommended spray nozzles and pressures
  - c. Minimum / maximum drying times, including re-coat times for shop or field coatings
  - d. Temperature requirements
4. Letter from the manufacturer detailing the coating system components and the compatibility of those components to adjacent materials including but not limited to:
  - a. every product in the system (primer, intermediate, topcoat, etc)
  - b. any pre-applied or pre-existing products (such as existing coatings)
  - c. any post applied products (such as anti-graffiti coating)
  - d. any modifications to the surface preparation or application instructions related to the total system performance.
5. If the color varies from the specified color, the Contractor shall submit color samples on boards at least eight (8) inches by ten (10) inches for review and approval.
6. Documentation related to Contractor Qualifications per 546.2.3.1

Prior to coating application, the Contractor shall submit a notarized manufacturer's Certificates of Compliance stating that the Materials are the same as those described in the manufacturer's product data sheets.

#### **546.2.3.1 Contractor Qualifications**

When the Contract requires painting more than 500 square feet of steel surface, the Contractor shall demonstrate qualification by one of the following two methods:

##### **Method 1**

Obtain SSPC QP 1 certification for field painting or either SSPC-QP 3 certification or the AISC Sophisticated Paint Endorsement (SPE) for shop painting. The Contractor shall perform and document QA/QC inspections daily. QA/QC inspection documents shall be electronically submitted to the Project Manager on a weekly basis.

##### **Method 2**

Provide a coating plan and provide for NACE certified inspection (Level 2 minimum). The inspection services shall include but not be limited to:

1. Surface preparation and cleanliness inspection verifying profile and appropriate surface preparation.
2. Confirm products match approved submittals and certification letters. Document batch numbers of all coatings.
3. Inspection of primer coat to include dry film thickness readings. Review contractors QA/QC reports for environmental conditions and document.
4. Observe application of stripe coat on the intermediate coat and document environmental readings during the start-up of application. Review contractors QA/QC reports.
5. Inspect intermediate coat to include dry film thickness readings. Review Contractor's QA/QC reports.
6. Observe start-up of finish coat application and document environmental conditions.
7. Final inspection to include visual inspection for runs, sags, and foreign material in coating. Also perform final dry film thickness inspection.

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8. Inspect members after transportation, prior to subsequent coating and / or final acceptance.
9. Electronically submit interim reports after each inspection to the Project Manager within 3 working days.
10. Electronically submit comprehensive final report including photos to the Project Manager within 14 Days of completion of inspection. Final report shall include QA/QC daily inspections performed by the Contractor.

Any deficiencies shall be corrected and re-inspected by the NACE inspector prior to proceeding.

Provisions for demonstration of qualifications are incidental to the performance of the coating, no additional payment shall be made. NMDOT shall be granted open access to the coating operation to perform inspections and to review documentation of Contractor inspections. The Project Manager shall have the option to waive the Contractor Qualification requirement.

### **546.3 CONSTRUCTION REQUIREMENTS**

The Contractor shall apply coatings in conformance with SSPC – PA 1 “Shop, Field and Maintenance Painting of Steel” and with SSPC – PA Guide 13 “Guide Specification for Application of Coating Systems with Zinc-Rich Primers to Steel Bridges” (aka AASHTO/NSBA Steel Bridge Collaboration S 8.1), SSPC-TU 3 “Technical Update No. 3 Overcoating”, and the manufacturer’s application instructions.

#### **546.3.1 Surface Preparation of Existing Bridges and Structures**

The Contractor shall perform surface preparation in accordance with the most stringent of the following:

1. At locations where loosely adherent coatings or corrosion are NOT present: SSPC – SP 1, and
2. At locations where loosely adherent coatings are present: SSPC – SP 3, and
3. At locations where corrosion is present: SSPC – SP 11 or
4. Specific contract document requirements or
5. Specific guidance by the Project Manager or
6. Manufacturer recommendations (per the application instructions as amended by the manufacturer’s letter submitted per 546.2.3 #4d if applicable)

##### **546.3.1.1 Surface Preparation Description and Evaluation**

Various SSPC surface preparation standards are cited in this section. For reference, a brief summary of each is listed below. The Contractor is responsible to perform to the current versions of all requirements of the full and complete standards available directly from SSPC, The Society for Protective Coatings.

###### *SSPC-SP1 Solvent Cleaning*

Removes all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants from steel surfaces with solvent, vapor, cleaning compound, alkali, emulsifying agent, or steam. SSPC-SP 1 is a prerequisite to all hand tool, power tool and abrasive cleaning standards. SSPC-SP1 shall be incidental.

###### *SSPC-SP3 Power Tool Cleaning*

Removes all loose mill scale, loose rust, loose paint, and other loose detrimental foreign matter by power wire brushing, power sanding, power grinding, power tool chipping, and power tool descaling. Tightly adherent, intact materials may remain.

###### *SSPC-SP6 Commercial Blast Cleaning*

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When viewed without magnification shall be free of all visible oil, grease, dirt, dust, loose mill scale, rust, and coating, but will permit staining from rust, mill scale, or previously applied coatings. The surface will not necessarily be uniform in color.

*SSPC-SP7 / NACE 4 Brush-Off Blast Cleaning*

When viewed without magnification, the surface shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose coating. Tightly adherent mill scale, rust, and coating may remain on the surface. Mill scale, rust, and coating are considered tightly adherent if they cannot be removed by lifting with a dull putty knife.

*SSPC-SP10 / NACE 2 Near-White Blast Cleaning*

When viewed without magnification shall be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products and other foreign matter of at least 95% of each unit area. Staining shall be limited to no more than 5 percent of each unit area, and may consist of light shadows, slight streaks, or minor discolorations caused by stains of rust, stains of mill scale, or stains of previously applied coatings. Unit area shall be approximately 3 in. x 3 in. (9 sq. in.). SSPC-SP10 shall only be engaged when required by the manufacturer. It shall be paid under the bid item for SSPC-SP6.

*SSPC-SP11 Power Tool Cleaning to Bare Metal*

When viewed without magnification, the surface shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter. Slight residues of rust and paint may be left in the lower portion of pits if the original surface is pitted. The surface profile shall not be less than 1 mil (25 microns).

*SSPC-SP16 Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals*

When viewed without magnification, the surface shall be free of all visible oil, grease, dirt, dust, metal oxides (corrosion products), and other foreign matter. Intact, tightly adherent coating is permitted to remain. A coating is considered tightly adherent if it cannot be removed by lifting with a dull putty knife. The surface shall have a minimum profile of 0.75 mil (19 microns).

Prepared surfaces shall be evaluated using the SSPC standards. The following references will be provided to the Project Manager by the Contractor for inspection and acceptance of prepared surfaces:

- If SP 10, SP 6, SP 14 or SP 7 are engaged: SSPC-VIS 1 Guide and Standard (includes reference photographs)
- If SP 2, SP 3, SP 11 are engaged: SSPC-VIS 3 Guide and Standard (includes reference photographs)
- If SP 12 is engaged: SSPC-VIS 4 Guide and Standard (includes reference photographs)

SSPC VIS Guide and Standard shall become the property of the Department. Provide current version.

**546.3.1.2 SSPC-SP 1 - Solvent and Pre-Cleaning**

The Contractor shall clean exposed areas in accordance with SSPC-SP 1 Solvent Cleaning.

The Project Manager may approve cleaning with high pressure water and an approved, mild detergent to supplement solvent cleaning, where more effective or suitable. This method of pre-cleaning is required on all surfaces that have been exposed to chloride contamination from the use of road salts for snow and ice control.

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**546.3.1.3 SSPC-SP 3 Power-Tool Cleaning**

The Contractor shall remove poorly adhering coatings and prepare the surface with power-tools in accordance with SSPC-SP 3, Power Tool Cleaning. At the Contractor's discretion, SSPC-SP 7 or SSPC \_ SP 12 WJ 3 may be employed in lieu of SSPC-SP 3.

**546.3.1.4 SSPC-SP 6 – Commercial Blast Cleaning**

The requirement for commercial blast cleaning shall be established by the more stringent of contract documents or the manufacturer's recommendations.

**546.3.1.5 SSPC-SP 7 – Brush-Off Wet Blast Cleaning**

The requirement for brush-off wet blast cleaning shall be established by the more stringent of contract documents or the manufacturer's recommendations. Acceptability of wet cleaning shall be determined by the Project Manager as confirmed against project environmental constraints.

**546.3.1.6 SSPC-SP 10 – Near-White Blast Cleaning**

The requirement for near-white blast cleaning shall be established by the manufacturer's recommendations. SSPC-SP 10 shall be paid under the same bid item as SSPC-SP 6.

**546.3.1.7 SSPC-SP 11 – Power-Tool Cleaning to Bare Metal**

The Contractor shall clean areas that show moderate to severe corrosion in accordance with SSPC-SP 11, Power-Tool Cleaning to Bare Metal. Areas too large to be prepared using power tools may be cleaned per SSPC SP-6 Commercial Blast Cleaning at the Contractor's discretion.

The Project Manager will mark additional areas for cleaning in accordance with SSPC-SP 11. The Contractor shall clean at least two (2) inches beyond the damaged areas in all directions. The Contractor shall feather the exposed edges of the cleaned areas in accordance with SSPC-SP 11. The Contractor shall not leave ragged edges of intact paint. During and after power-tool cleaning, the Contractor shall maintain the degree of cleaning specified in accordance with SSPC-SP 11.

The Department will accept these surfaces by visually comparing them to a prepared standard on the Project. The Contractor shall prepare a Project standard by power-tool cleaning an area designated for recoating. Before cleaning, the Contractor shall ensure that the prepared standard is in accordance with SSPC-Vis 3, Visual Standard for Power and Hand-Tool Cleaned Steel, Pictorial Standard E SP 11, F SP 11, and G SP 11, and obtain Department approval. The Contractor shall prepare at least one (1) standard for each Structure. More than one (1) standard may be necessary if the cleaned steel differs significantly from the photographic standards. For recoating Bridges, the Contractor shall make the standard at least one (1) ft. × one (1) ft. For recoating Bridge railing or minor Structures, the standard may be smaller. The Contractor shall protect the Project standard from corrosion and contamination by applying a clear polyurethane coat. Upon completing the cleaning work, the Contractor shall re-clean and coat the standard. If the standard becomes deteriorated or ineffective, the Contractor shall re-establish it at no additional cost to the Department.

The SSPC VIS 1 "Guide and Reference Photographs for Steel Surfaces Prepared by Dry Abrasive Blast Cleaning" shall be used in this same manner to prepare a standard for surfaces that are blast cleaned per SSPC SP-7 and SP-10.

SSPC-SP 12 WJ-3 may be employed in lieu of SSPC-SP 3. At the Contractor's discretion, SSPC-SP 7 or

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**546.3.1.8 SSPC-SP 12 WJ-3 – Thorough Waterjetting**

The requirement for thorough waterjetting shall be established by the more stringent of contract documents or the manufacturer's recommendations. Acceptability of waterjet cleaning shall be determined by the Project Manager as confirmed against project environmental constraints.

**546.3.1.9 SSPC SP-16 – Galvanized Surfaces**

Previously galvanized surfaces shall be prepared by the Contractor in accordance with SSPC-SP16 – Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel. Brush-off blast cleaning includes SSPC-SP1 solvent cleaning or other method approved by the project manager to remove oil, grease, or other contaminants. The SSPC-SP1 is followed by a dry abrasive blasting using compressed air, blast nozzles, and abrasives. To avoid formation of zinc oxides that will result in potential coating failure, blast cleaning must occur when the surface temperature is a minimum of 5 degrees above the dew point and the surface cannot be permitted to get damp after cleaning. The Contractor shall apply coating as soon as possible after surface cleaning.

The Contractor shall apply intermediate and top coat products in accordance with manufacturer's application instructions and this specification.

**546.3.1.10 Preparing Glossy Surfaces**

All previously coated glossy surfaces shall be lightly abraded / deglossed prior to re-coating.

**546.3.1.11 Testing for Chloride Contamination**

Prepared surfaces with exposed metal will be tested by the Contractor for chloride contamination. All test areas will be recorded for retesting purposes. A minimum of five (5) tests per 1,000 s.f. or fraction thereof shall be conducted prior to surface preparation. If results greater than 7micrograms per cubic centimeter are detected, the surface shall be re-cleaned as specified and re-tested at the same frequency. If acceptable results are achieved, surface preparation may begin.

**546.3.1.12 Abrasives Used in Blast Cleaning Operations**

When blast cleaning options are employed in lieu of SSPC SP – 3 and SP – 11 standards (ie SP-7 and SP-6), the Contractor shall select the type of abrasive. All abrasives brought to the site shall be stored in a clean and dry environment. Abrasives shall not be recycled or re-used without NMDOT approval.

**546.3.1.13 Limited Access Areas**

A best effort with the specified methods of cleaning shall be performed in limited access areas. These methods may need to be supplemented with other equipment such as angle nozzles, to properly clean the limited access areas. The acceptability of the best effort cleaning in these areas is at the sole discretion of the Project Manager.

When replacing a concrete Bridge deck, the Contractor shall not clean or coat the top surfaces of top flanges of beams and girders and shear connectors.

**546.3.1.14 Chemical Paint Removal**

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Chemical removal products and methods may be approved by the Department.

### **546.3.2 Coating**

#### **546.3.2.1 Mixing the Coatings**

The Contractor shall mix the coatings with a power mixer in accordance with the coating manufacturer's directions until the Material is smooth and lump-free. The Contractor shall not use paint shakers.

The Contractor shall mix the Material as far as possible in its original container and continue mixing until the metallic powder or pigment is in suspension.

The Contractor shall thoroughly disperse the coating solids that may have settled to the bottom of the container. The Contractor shall strain coatings through a 30 – 60 mesh screen, or per coating manufacturer's recommendations.

The Contractor shall continuously agitate mixed coatings until application.

#### **546.3.2.2 Thinning the Coating**

The Contractor shall not thin the coatings without the approval of the Project Manager. If it is necessary to thin the coatings, the Contractor shall thin the Material in accordance with the manufacturer's recommendations.

#### **546.3.2.3 Coating Application**

The Contractor shall apply the coating system with a brush, roller, or by spraying (preferred). The Contractor shall use nozzles and pressures in accordance with the manufacturer's recommendations.

A stripe coat shall be applied to all edges, corners, seams, crevices, interior angles, junctions of joining members, rivets, bolt heads, nuts and threads, welds and similar irregularities. The stripe coats shall be of sufficient thickness to completely hide the surface being covered and shall be followed, as soon as practicable, by a full application of the appropriate coating to its specified thickness.

#### **546.3.2.4 Temperature and Weather Limitations**

##### **546.3.2.4.1 Temperature**

The Contractor shall apply the coating when the air and surface temperatures are above 50 °F and at least five (5) °F above the dew point.

The Contractor shall not apply coatings on metal surfaces with condensation or frost.

##### **546.3.2.4.2 Humidity**

The Contractor shall not apply the coatings when the relative humidity is above 85 %.

### **546.3.3 Priming**

The Contractor shall prime coat all steel surfaces prepared in accordance with SSPC SP-11. The Contractor shall apply primer the same day as cleaning, unless otherwise authorized by the Project Manager. The

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Contractor shall re-clean surfaces that develop rust or are contaminated with deleterious material before coating, at no additional cost to the Department.

#### 546.3.4 Intermediate and Topcoat

The Contractor shall ensure the primer is cured and dry before applying subsequent coats.

The Contractor shall not allow the manufacturer's recommended maximum time to lapse between coats.

#### 546.3.5 Thickness of Coatings

The Department will reject the coating if the DFT (dry film thickness) gauge shows less than the specified minimum thickness for any coating. The Contractor shall provide coating thicknesses in accordance with Table 546.3.5:1, "Required Film Thicknesses."

**Table 546.3.5:1: Required Film Thicknesses**

Coating	Dry Film Thickness Range (mils)
Coating System No. 1 – Polyurethane Topcoat Overcoat / Repair System (As required For Surfaces Coated Per Section 544 New Structural Steel and Certain Items Per Section 545 Miscellaneous Steel)	
Primer (Epoxy Organic Zinc)	3.0 – 5.0 mils
Intermediate (Epoxy)	5.0 – 8.0 mils
Topcoat (Polyurethane)	3.0 – 5.0 mils
Coating System No. 2 – Acrylic Topcoat Overcoat / Repair System (As required For Designated Items Per Section 545 Miscellaneous Steel)	
Primer (Epoxy Organic Zinc)	3.0 – 5.0 mils
Topcoat (Acrylic)	2.0 – 4.0 mils

The Contractor shall determine the dry film thickness using magnetic film thickness gauges, per latest version of SSPC PA-2 Procedure for Determining Conformance to Dry Coating Thickness Requirements. The Contractor shall calibrate the gauges on blasted steel with plastic shims approximately the same thickness as the minimum dry film thickness. All dry film thickness requirements are to be measures above the peaks of the blast profile.

#### 546.3.6 Field Repair of Liquid Coatings

Field repair shall be accomplished with the same coating system used for the original application with the exception that organic zinc rich primer may always be used.

The Contractor shall field repair coated areas that are rusted or damaged. The Contractor shall prepare the surface in accordance with 546.3.1 "Surface Preparation of Existing Bridges and Structures" or with methods approved by the Project Manager.

The Contractor shall prime large areas using spray Equipment, brush, or roller. The Contractor shall prime small areas with a brush. The Contractor shall spray or brush the topcoat. Two (2) or more coats may be

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necessary to build up the required film thickness. The Contractor shall apply topcoat only to areas where the topcoat is damaged.

#### **546.3.7 Protection of the Work and Public**

During the coating operations, the Contractor shall protect the work and the public from blast cleaning operations, paint splatter, splashes and smirches with protective covering or other methods approved by the Project Manager.

When the protective devices or procedures are ineffective, the Project Manager may suspend the work until corrections take place.

The Contractor shall remove blasting and coating debris from all on-site work before reopening the area to traffic.

#### **546.3.8 Inspection**

The Contractor will be responsible for performing and documenting Quality Control (QC) inspections of all shop / field surface preparation and coating activities. When the contract requires painting more than 500 square feet of steel surface, the Contractor shall reference Section 544.2.2.3 Contractor Qualifications. When the contract required painting less than 500 square feet of steel surface, the Contractor shall document all QC inspection activities, measurements and observations on the Daily Inspection report. These reports shall be submitted to the Project Manager at a minimum on a weekly basis and shall account for all work performed.

The Contractor shall notify the Project Manager at least ten (10) Days before surface preparation and/or coating to allow adequate time to plan inspection activities.

After completing erection, the Project Manager will inspect the surfaces to be embedded in concrete. The Contractor shall repair damaged or rusted surfaces before placing decks. After placing the deck and at an agreed upon time, the Project Manager will inspect the entire steel Structure for coating system damage. The Project Manager will mark damaged areas for repair and will re-inspect after repairs are complete.

#### **546.4 METHOD OF MEASUREMENT**

The Project Manager will measure cleaned areas in accordance with SSPC-SP 11 and SSPC-SP 3 before the application of the prime coat.

#### **546.5 BASIS OF PAYMENT**

<b>Pay Item</b>	<b>Pay Unit</b>
Recoating Structures	Lump Sum
SP 3 Power Tool Cleaning	Square Foot
SP 6 Commercial Blast Cleaning	Lump Sum
SP 11 Power Tool Cleaning	Square Foot

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SP 16 Brush-Off Blast Cleaning of Galvanized Steel      Lump Sum

**546.5.1 Work Included in Payment**

The following items will be considered as included in the payment for Recoating Structures and will not be measured and paid for separately:

1. Cleaning all exposed areas of existing steel members in accordance with SSPC-SP 1;
2. When SSPC-SP 6 is performed at the Contractor's discretion in lieu of SSPC-SP 11, SSPC-SP 11 shall be used as the pay item;
3. When SSPC-SP 7 is performed at the Contractor's discretion in lieu of SSPC-SP 3, SSPC-SP 3 shall be used as the pay item;
4. SSPC-SP 11 power-tool cleaning and priming of those areas designated in the Contract to be so included in the Lump sum price.
5. SSPC-SP 3 power-tool cleaning and priming of those areas designated in the Contract to be so included in the Lump sum price;
6. When SSPC-SP 10 Near-White Blast Cleaning is performed due to manufacturer requirements, SSPC-SP 6 shall be used as the pay item.
7. Furnishing and applying the appropriate coating system to all exposed steel surfaces of the structure;
8. Any field touch-up required to correct shipping or installation damage.
9. Final cleanup of the structure and the immediate area; and
10. Re-caulking the perimeters of all railing post base plates per Section 543.

**Section 560: Elastomeric Bearing Pads**

Delete **Section 560.5 Basis of Payment** and replace with the following:

**Section 560.5 BASIS OF PAYMENT**

Pay Item	Pay Unit
Elastomeric Bearing Pads	Each

**Section 562: Bridge Joint Strip Seals**

Delete **Section 562.1: DESCRIPTION** in its entirety and replace with the following:

**Section 562.1: DESCRIPTION**

This Work consists of providing, assembling, and installing Bridge joint strip seal assemblies and in accordance with the Standard Drawings for Bridge Joint Strip Seals.

In addition, this Work consists of replacing and installing Bridge joint elastomer on existing Bridge joints in accordance with the Standard Drawings for Bridge Joint Strip Seals.

Add the following to **Section 562.4: METHOD OF MEASUREMENT**

Bridge Joint Elastomer will be measured by the linear foot.

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Add the following Pay Item to Section **562.5: BASIS OF PAYMENT**

Pay Item	Pay Unit
Bridge Joint Elastomer	Linear Foot

Add the following to Section **562.5.1: Work Included in Payment**

8. Bridge Joint Elastomer.

**Section 601: Removal of Structures and Obstructions**

Add the following to Section **601.3.2 Removal of Bridges, Culverts and Other Drainage Structures:**

**601.3.2.1 Partial Removal of Bridge Elements**

If partial removal is specified, the partial removal shall be in accordance with Section 533.3, Construction Requirements.

Add the following to **Section 601.5.1: Work Included in Payment**

4. Means and methods associated with partial removal of Bridge elements.

**Section 602: Slope and Erosion Protection Structures**

**602.2.1 Classifications**

Delete **Table 602.2.1:1** and replace with the following:

**Table 602.2.1:1: Riprap Classifications and Gabion Requirements**

Class	Description	Stone Volume (cubic feet)		Minimum Dimensions <sup>a</sup> (inches)	Nominal D50 (feet)	Minimum Blanket Thickness (feet)
		Minimum	Maximum			
A	Wire enclosed riprap	1/6	2/3	4	0.75	--
A	Non-enclosed riprap	1/6	2/3	4	0.75	1.25
B <sup>b</sup>	Non-enclosed riprap	1	2	6	1.25	2.0
C <sup>b</sup>	Non-enclosed riprap	2	4	9	1.5	2.25
D	Derrick stone	See Table 602.2.1:2				3.0
E	Grouted riprap	1/3	1	3	1.0	1.5
F	Grouted riprap	1	2	6	1.25	2.0
G	Rock plating	--	--	4-8 <sup>c</sup>	--	1.0
N/A	Wrapped rockfacing	--	--	1	--	--
N/A	Gabions	--	--	4-8 <sup>c</sup>	--	--

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- a Minimum size in the least dimension.
- b Class B and C stone – at least two (2) Fractured Faces.
- c 70% to 80% of the stone: at least four (4) inches but not more than eight (8) inches in the smallest dimension; 30% to 20% of the stone: no larger than four (4) inches in any dimension.

Add the following to **Section 602.5 Basis of Payment**:

<b>Pay Item</b>	<b>Pay Unit</b>
Riprap Class A (Non-Enclosed)	Cubic Yard

**Section 606: Metal Barrier, Cable Barrier and Concrete Wall Barrier**

Delete 9. from **Section 606.5.1: Work Included in Payment** and replace with the following:

- 9. Hot/Warm Mix Asphalt Material, placement and compaction;
- Section 618: Traffic Control Management**

Delete 10. from **Section 618.2.2: Duties.**

**Section 621: Mobilization**

Delete **Section 621.5.1: Work Included in Payment** in its entirety and replace with the following:

**Section 621.5.1: Work Included in Payment**

The Department will pay the Contractor partial payments using the following procedure:

1. When one percent (1%) or more of the Total Original Contract Amount less Mobilization is earned, up to 25 percent (25%) of the amount Bid for Mobilization or three percent (3%) of the Total Original Contract Amount, whichever is less, will be paid;
2. When five percent (5%) or more of the Total Original Contract Amount less Mobilization is earned, up to 50 percent (50%), less previous amounts paid, of the amount Bid for Mobilization will be paid;
3. When 10 percent (10%) or more of the Total Original Contract Amount less Mobilization is earned, up to 75 percent (75%), less previous amounts paid, of the amount Bid for Mobilization will be paid;
4. When 25 percent (25%) or more of the Total Original Contract Amount less Mobilization is earned, up to 90 percent (90%), less previous amounts paid, of the amount Bid for Mobilization will be paid; and
5. When 50 percent (50%) or more of the Total Original Contract Amount less Mobilization is earned, up to 100 percent (100%), less previous amounts paid, of the amount Bid for Mobilization will be paid.

The total sum of all Mobilization payments shall not exceed the Total Original Contract Amount Bid for the item.

The Department will not make additional payments for de-mobilization and re-mobilization due to shutdowns, whole or partial suspensions of the Work or for other Mobilization activities required for satisfactory completion of the Contract.

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**Section 701: Traffic Signs and Sign Structures**

Delete the first paragraph of **Section 701.2.4.6: Inspection** and replace with the following:

Prior to fabrication, the Contractor shall provide the Project Manager all signing information, including text, for review and approval. The Department will inspect Material and finished signs before and after installation at the Project site.

Add the following to **Section 701.3.5 Removing and Resetting Traffic Signs**:

**701.3.5.2 Removing and Resetting Overhead Sign Structures**

The Contractor shall remove existing overhead sign structures, I-beam posts and footings. The Contractor shall stockpile removed overhead sign structures and I-beam posts at locations specified in the Contract. The Contractor shall reset removed overhead sign structures on new I-beam posts with new hardware and drilled shaft foundations. The Contractor shall design new hardware for existing conditions in accordance with the manufacturer's recommendations and as specified in the Contract. The Contractor shall dispose of footing Material in an environmentally acceptable manner.

The Contractor shall backfill holes left by the removal of overhead sign structure foundations and compact in accordance with Section 203, "Excavation, Borrow and Embankment".

Polyurethane Material shall be injected into the soils beneath the roadway structure through drilled holes at locations and depths as directed by the Project Manager.

Add the following Pay Item to **Section 701.5 BASIS OF PAYMENT**

<b>Pay Item</b>	<b>Pay Unit</b>
Remove and Reset Overhead Sign Structure	Each

Add the following to **Section 701.5.1 Work Included in Payment**

8. Polyurethane Material as displayed by the certified flow meters and dynamic cone penetration (DCP) testing.

**Section 702-C: Traffic Control Devices for Construction and Traffic Control Devices for Pedestrians and Bicyclists****702-C.1 DESCRIPTION**

This Work shall consist of implementing the necessary traffic control during construction in conformance with the Contract and the Manual of Uniform Traffic Control Devices. The Contractor shall submit all proposed traffic control changes to the Contract traffic control Plan detailed in the Plans to the Project Manager, for review and approval by the District Traffic Engineer/or Local Government Agency Engineer or designee, prior to beginning construction operations.

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The Contractor shall furnish all Materials, tools, labor, Equipment and all other appurtenances necessary to complete the Work. The Materials shall include, all interim and temporary signing, and traffic control devices as necessary to complete the traffic control detailed in the Plans or modifications to the Plan details as approved by the District Traffic Engineer including all setups and resetting of devices.

The Contractor shall submit a summary of all necessary traffic control devices for this Project in the format indicated in Table 702-C.1:1 "Traffic Control Devices for Construction" and/or Table 702-C.1:2 "Traffic Control Devices for Pedestrians and Bicyclists" to the Project Manager at least two (2) weeks prior to the Pre-Construction Conference. A minimum of five (5) copies shall be provided to the Project Manager. The summary shall be complete with Section 702 referenced, device descriptions, units of measure, quantities required, unit costs, and total costs for each type of device. The itemized costs for each device shall include all associated Work and Materials defined in Standard Specifications Section 702, "Construction Traffic Control Devices", including all revisions. The Contractor will not be allowed to initiate any Work on the Project until Table 702-C.1:1 "Traffic Control Devices for Construction" and/or Table 702-C.1:2 "Traffic Control Devices for Pedestrians and Bicyclists" has been provided to the Project Manager.

**Table 702-C.1:1  
Traffic Control Devices for Construction**

Device Description	Unit of Measure	Qty.	Unit Cost	Total Cost
Section 702 - Construction Traffic Control Devices				
Construction Signing	Sq. Ft.			
Steel Posts And Base Posts for Construction Signing	Lin. Ft.			
Multi-Directional Slip Base Posts for Construction Signing	Each			
Portable Sign Support	Each			
Barricade, Type I	Each			
Barricade, Type II	Each			
Barricade, Type III-6 Ft.	Each			
Barricade, Type III-8 Ft.	Each			
Vertical Panel, Type Single	Each			
Vertical Panel, Type Back to Back	Each			
Construction Traffic Marker	Each			
Channelization Devices Type Drum	Each			
Traffic Cones	Each			
Sequential Arrow Display	Each			
Temporary Portable Rumble Strips	Lin. Ft.			
Total For Item 702810 Traffic Control Devices for Construction (Lump Sum)			\$	

**Table 702-C.1:2  
Traffic Control Devices for Pedestrians and Bicyclists**

Device Description	Unit of Measure	Qty.	Unit Cost	Total Cost
Section 702 - Construction Traffic Control Devices				
Construction Signing	Sq. Ft.			
Portable Sign Support	Each			

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Vertical Panel, Type Single	Each			
Temporary Pedestrian Channelization Devices	Lin. Ft.			
Temporary Detectable Warning Surface	Each			
Temporary ADA Ramp	Each			
Temporary ADA Platform	Each			
Temporary Pedestrian Barricade	Each			
Total For Item 702811 Traffic Control Devices For Pedestrians And Bicyclists (Lump Sum)			\$	

**702-C.2 MATERIALS****702-C.3 CONSTRUCTION REQUIREMENTS**

All construction shall be effected by the Contractor in accordance with the applicable Plan details and Specifications shown in the Contract or modifications to the Plan details as approved by the District Traffic Engineer.

All Materials and devices shall be maintained and replaced if necessary for the duration of the Project in conformance with these Specifications.

Traffic control shall be maintained in conformance with Standard Specifications Section 618, "Traffic Control Management" for the duration of the Project.

**702-C.4 METHOD OF MEASUREMENT**

Traffic Control Devices for Construction and Traffic Control Devices for Pedestrian and Bicyclist will be measured as a lump sum based on the summary provided at the Pre-Construction Conference..

**702-C.5 BASIS OF PAYMENT**

<b>Pay Item</b>	<b>Pay Unit</b>
Traffic Control Devices for Construction	Lump Sum
Traffic Control Devices for Pedestrian and Bicyclist	Lump Sum

Traffic Control Devices for Construction and Traffic Control Devices for Pedestrian and Bicyclist shall not be considered as eligible for a cost savings suggestion.

**702-C.5.1 Work Included in Payment**

The Department will consider as included in the payment for the pay item(s) listed in this section and will not measure or pay separately for the following Work:

1. Setting and resetting of devices; and
2. Flaggers.

**Section 704: Pavement Markings**

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Delete the first paragraph of **Section 704.3.5: Rates and Tolerances for Painted Markings** and replace with the following:

The Contractor shall apply paint at a rate of 22 to 25 wet mills, (25.15 gal per mile of paint for a solid four (4) inch line and 6.31 gal per mile for a broken four (4) inch line) for permanent markings. The Contractor shall apply other permanent striping widths at appropriate multiples of these gal per mile rates, achieving 22 to 25 wet mills for solid and broken stripes.

Add the following to **Section 704.3.6: Dimension Tolerances**

The Contractor shall contrast striping and symbols on concrete pavement with a black outline a minimum of two (2) inches in all directions.

**Section 704-A: Temporary Marking Tape**

Delete **Section 704-A.4 METHOD OF MEASUREMENT** and replace with the following:

**Section 704-A.4 METHOD OF MEASUREMENT**

The Department will measure temporary Removable and Non-Removable Marking Tape by four (4) inch, six (6) inch, eight (8) inch, 12 inch, and 24 inch widths using inch widths to calculate a total length. Temporary words or symbols will be paid by each.

Delete **Section 704-A.5: BASIS OF PAYMENT** in its entirety and replace with the following:

**Section 704-A.5: BASIS OF PAYMENT**

<b>Pay Item</b>	<b>Pay Unit</b>
Removable Marking Tape _____ inch	Linear Foot
Temporary Word or Symbol	Each

**Section 704-A.5.1 Work Included in Payment**

The following Work and items will be considered as included in the payment for the main items and will not be measured or paid for separately:

1. Repair or replacement of damaged striping due to Contractor's negligence or operations;
2. Furnishing, mixing, and applying adhesive or primers;
3. Standard surface preparation;
4. Mobile traffic control operations for traffic marking operations;
5. Removal of Removable Marking Tape and/or Temporary Word(s) or Symbol (s);
6. Repair or replacement of damaged Removable Marking Tape and Temporary Word(s) or Symbols(s).

**Section 705: General Requirement for Traffic Signal and Lighting Systems**

Delete Subsection **705.5 BASIS OF PAYMENT** and replace with the following

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**705.5 BASIS OF PAYMENT**

Signal/Lighting System Start-up Costs will be paid for the actual cost incurred, not to exceed the fixed amount entered by the Department into the Bid Schedule.

Provide the Project Manager with a detailed cost breakdown, including receipts and invoices of actual costs incurred.

For the purpose of bidding, the Department will enter into the Bid Schedule a fixed amount for Signal/Lighting System Start-up Costs.

<b>Pay Item</b>	<b>Pay Unit</b>
Signal/Lighting System Start-up Costs	Allowance

**APPENDIX “B”****Additional requirements for:**

<b>Items 009-011</b>	<b>Diamond Grinding of PCCP – District 1</b>
<b>Items 012-014</b>	<b>Diamond Grooving of PCCP – District 1</b>
<b>Items 094-096</b>	<b>Diamond Grinding of PCCP – District 2</b>
<b>Items 097-099</b>	<b>Diamond Grooving of PCCP – District 2</b>
<b>Items 179-181</b>	<b>Diamond Grinding of PCCP – District 3</b>
<b>Items 182-184</b>	<b>Diamond Grooving of PCCP – District 3</b>
<b>Items 264-266</b>	<b>Diamond Grinding of PCCP – District 4</b>
<b>Items 267-269</b>	<b>Diamond Grooving of PCCP – District 4</b>
<b>Items 349-351</b>	<b>Diamond Grinding of PCCP – District 5</b>
<b>Items 352-354</b>	<b>Diamond Grooving of PCCP – District 5</b>
<b>Items 434-436</b>	<b>Diamond Grinding of PCCP – District 6</b>
<b>Items 437-439</b>	<b>Diamond Grooving of PCCP – District 6</b>

Diamond-Grinding and Diamond Grooving of Portland Cement Concrete Pavement- This work consists of diamond grinding and/or diamond grooving Portland cement concrete pavement and includes the removal and residue resulting from the work as described in Section 455 “Diamond-Grinding and Diamond-Grooving of Portland Cement Concrete Pavement (PCCP)” and Section 512.3.10 “Final Operations” of the NMDOT Standard Specifications for Highway and Bridge Construction, current edition.

- Field surveying and profile grade determination - The Contractor shall perform a detailed survey of the bridge deck, approach slabs and beyond as necessary to determine the existing profile of the bridge and approaches. The Contractor shall use this data to develop a proposed revised profile grade as a guide to the proposed grinding or grooving. Prior to beginning grade adjustments, the Contractor shall submit to the authorized ordering Engineer for approval, a detail drawing of the area to be grinded or grooved to the final proposed grades. At the completion of work at a location, the Contractor shall conduct another survey of the area showing the corrected profile grades.
- The Project Manager may direct the Contractor to perform Diamond-Grinding of the asphalt pavement within 100 feet on each side of the bridge. This will be paid for as Diamond-Grinding of Portland Cement Concrete Pavement.

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The Contractor may refuse to treat a bridge deck or grind-groove a bridge deck, provided a survey of the deck surface indicates the bridge deck condition is not suitable for the application of the PCBDO or for the suitability of diamond grinding or diamond grooving of Portland cement concrete pavement.

The Contractor is responsible for verifying the suitability of the bridge deck and adjoining approach and transition slabs prior to mobilization. The Contractor shall provide a written notice to the parties executing the work of any bridge decks or areas unsuitable for treatment or for grinding or grooving.

**APPENDIX “C”****Additional requirements for:**

<b>Items 022-025</b>	<b>Epoxy Polymer Concrete Deck Overlay – District 1</b>
<b>Items 026-029</b>	<b>Epoxy Urethane Polymer Concrete Deck Overlay – District 1</b>
<b>Items 107-110</b>	<b>Epoxy Polymer Concrete Deck Overlay – District 2</b>
<b>Items 111-114</b>	<b>Epoxy Urethane Polymer Concrete Deck Overlay – District 2</b>
<b>Items 192-195</b>	<b>Epoxy Polymer Concrete Deck Overlay – District 3</b>
<b>Items 196-199</b>	<b>Epoxy Urethane Polymer Concrete Deck Overlay – District 3</b>
<b>Items 277-280</b>	<b>Epoxy Polymer Concrete Deck Overlay – District 4</b>
<b>Items 281-284</b>	<b>Epoxy Urethane Polymer Concrete Deck Overlay – District 4</b>
<b>Items 362-365</b>	<b>Epoxy Polymer Concrete Deck Overlay – District 5</b>
<b>Items 366-369</b>	<b>Epoxy Urethane Polymer Concrete Deck Overlay – District 5</b>
<b>Items 447-450</b>	<b>Epoxy Polymer Concrete Deck Overlay – District 6</b>
<b>Items 451-454</b>	<b>Epoxy Urethane Polymer Concrete Deck Overlay – District 6</b>

The Contractor shall:

1. Prepare the concrete to produce a surface relief equal to the International Concrete Repair Institute (ICRI) Surface Preparation CSP 5-7, or ASTM E 965 pavement macrotexture depth of from 0.04 in to 0.08 in. Provide concrete surface profile chips to the Project Manager for inspection and acceptance of prepared surface. ICRI concrete surface profile chips will become the property of the Department.
2. Section 536 materials shall be applied on all deck, approach slab and/or transition slab areas using mechanical metering, mixing and distribution machinery as recommended by the manufacturer of the overlay system. Hand mixing is not allowed. Components A and B shall be applied within the temperature range recommended by the manufacturer. No vehicle and/or equipment shall be allowed on the overlay during the curing period. Broadcasting on concrete shall be performed in accordance with the manufacturer’s directions and the method approved by the Project Manager.
3. For work orders consisting of both deck sealing work (Section 535) and overlay work (Section 536), all materials must be from the same manufacturer and compatible as per the manufacturer’s recommendations and selected from the Department’s Approved Product List.
4. At least 7 calendar days prior to applying the Polymer Bridge Deck Overlay to the overall concrete surface, a proof test must be performed by the Contractor and witnessed by the Project Manager. Apply and test the proposed overlay material in accordance with Appendix “C” at the end of this document. Upon completion of the curing period, perform the designated pull-off test. Failure must be a Type 1 failure as described in Appendix “C” Section e.6.b. If the failure type is any other type, repeat this test in another representative

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area. If the second test results in anything other than a Type 1 failure, the proposed material shall not be used on this project.

**Appendix “D”****Additional requirements for:**

<b>Item 030</b>	<b>Testing Polymer Overlay for Surface Preparation and Adhesion – District 1</b>
<b>Item 115</b>	<b>Testing Polymer Overlay for Surface Preparation and Adhesion – District 2</b>
<b>Item 200</b>	<b>Testing Polymer Overlay for Surface Preparation and Adhesion – District 3</b>
<b>Item 285</b>	<b>Testing Polymer Overlay for Surface Preparation and Adhesion – District 4</b>
<b>Item 370</b>	<b>Testing Polymer Overlay for Surface Preparation and Adhesion – District 5</b>
<b>Item 455</b>	<b>Testing Polymer Overlay for Surface Preparation and Adhesion – District 6</b>

**Test Method for Testing Polymer Overlays for Surface Preparation and Adhesion****a. Scope**

This method covers the test procedure used to measure the tensile rupture strength between hydraulic cement concrete and polymer concrete overlays. This test procedure may involve hazardous materials, operations, and equipment. Follow all manufacturer suggested safety precautions when performing the test. This test is similar to ACI 503R, Appendix A, of the ACI Manual of Concrete Practice. NOTE: “Polymer Overlay” represents the complete system; polymer adhesive and aggregate bonded to the concrete bridge deck.

**b. References**

b.1 ACI Manual of Concrete Practice 503R, Appendix A

**c. Apparatus**

c.1 A dynamometer with a minimum capacity of 2,000 lb/f.

c.2 A mechanical testing device for pulling a bonded pipe cap in tension as shown in ACI 503R, Appendix A, of the ACI Manual of Concrete Practice. See Figure 1 below.

c.3 Core drill with a 2 inch inside diameter diamond tipped core barrel.

c.4 A standard 1½ inch diameter pipe cap, where the bottom surface has been machined smooth, flat, and shoulder cut to provide a 2 inch diameter bonding surface. The surface of the pipe cap should be textured to provide good adhesion to the adhesive. This may be achieved by sandblasting, scoring or any method that produces a roughened bonding surface.

c.5 A rapid curing adhesive with strength and viscosity properties suitable for bonding the pipe caps to the overlay. A high viscosity, rapid setting epoxy with a pot life of 3 to 25 minutes is recommended.

c.6 Ruler or measuring device,

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c.7 Small propane torch (optional).

c.8 Surface and internal thermometers.

Note a: Test equipment for this procedure is available in other forms and may be used with the approval of the Project Manager.

**d. Preparation of Test Patches**

d.1 Select 1½ foot x 3 foot areas of the bridge deck for the polymer concrete test patches. The test patches should cover typical surface conditions found on the bridge deck. Place the test patches in the wheel paths, in the area between wheel paths and in other areas that represent the worst surface condition.

d.2 Clean test patch areas by the same method to be used to prepare the entire deck. Remove all loose disintegrated concrete, dirt, paint, oil, asphalt, laitance carbonation and curing materials from patches and other foreign material from the surface of the deck that can interfere with the curing or adhesion of the overlay. Cleaning is usually indicated by a significant change in the color of the concrete and exposing coarse aggregate particles.

d.3 Tape off an area 1½ foot x 3 foot using duct tape. Measure and record the temperatures of the air, deck surface, polymer components and aggregate.

d.4 Mix the polymer components as prescribed by the manufacturer using the same equipment, timing, and sequence of operation as will be used when placing the overlay on the full deck surface.

d.5 Collect a 2 ounce sample of the mixed polymer and measure and record the polymer gel time. The gel time is the time interval between the initial mixing of the polymer and the formation of a gelatinous mass in the center of the sample.

d.6 Accurately prepare sufficient quantities of the polymer mixture for each test patch. Place the polymer on each 0.5 square yard prepared test area. Spread the polymer with a notched squeegee in the same manner as on the full deck surface. Apply the polymer uniformly without puddling. Apply the dry overlay aggregate on each test patch at the same rate as specified in Contract Documents.

d.7 Allow the polymer to cure as required to allow sweeping or vacuuming without damaging the surface (curing time varies according to temperature). Curing of the first course can be checked by placing thumb on the aggregate and applying pressure. If the aggregate moves, curing has not been sufficient. See TABLE 1 for typical minimum cure times.

d.8 Remove excess aggregate.

d.9 Accurately measure sufficient quantities of the polymer mixture for each test patch. Place the polymer on the first course of each 0.5 square yard test area. Spread the polymer with a notched squeegee in the same manner as on the full deck surface. Apply the polymer uniformly without puddling. Apply the dry overlay aggregate on each test patch at the same rate as specified in Contract Documents.

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d.10 Allow the polymer to cure as required to prevent damage from traffic. See TABLE 1 for typical minimum cure times.

d.11 Remove excess aggregate.

**Table 1: Typical Polymer Concrete Overlay Cure Times**

Course	Average Temperature of Overlay Components, °F						
	55-59	60-64	65-69	70-74	75-79	80-85	85+
Minimum Cure Time, hrs.							
1	5	4	3	2.5	2	1.5	1
2	8	6.5	5	4	3	3	3

**e. Procedure**

e.1 Using a diamond tipped core barrel, drill through the polymer overlay and into the concrete surface to a depth of ½ inch. The dimensions of the core barrel must be such that the resulting concrete core is 2 inches in diameter. Do not use water for the coring operation.

e.2 Vacuum or blow the dust from around the core. Bond a 1½ inch pipe cap that has been machined to have a flat bottom surface of 2 inches in diameter, to the cored overlay disk. The adhesive used to bond the pipe cap to the overlay should be a rapid curing adhesive with a minimum working life of 3 minutes. Apply a small amount of adhesive to both the pipe cap surface and the cored disk. Do not allow any adhesive to flow over the edge of the cored disk or down into the cored area. If this occurs, do not record the test result, core an alternate area and perform another test. To decrease the curing time of the epoxy adhesives, heat may be applied to pipe cap by means of a small propane torch. Do not heat the cored disk directly!! Monitor the temperature of the pipe cap. Do not allow the cap temperature to exceed 120°F.

e.3 It is of the utmost importance that the tensile rupture equipment and dynamometer be aligned with the extended axis of the pipe cap to give accurate test results. To ensure the alignment of the apparatus alignment the use of a template is advised.

e.4 Screw the lower threaded hook into the cap. Place the testing apparatus over the pipe cap and align with the cored disk.

e.5 Attach the dynamometer to the upper and lower hooks. Set the load indicator on the dynamometer to zero. Check the date of calibration on the dynamometer. It must have been calibrated within the last 12 months.

e.6 Apply a tensile load at the rate of 100 + 10 pounds, every 5 seconds.

e.6.a Record the load for each test core to the nearest 10 lbf.

e.6.b Record the type of failure for each test core and percent failure in the concrete over the test area for Type 1 and Type 2 failures.

There are five types of failures:

- Type 1 - Failure in the concrete at a depth greater than or equal to ¼ inch over more than 50% of the test area.

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- Type 2 - Failure in the concrete at a depth less than ¼ inch over more than 50% of test area.
- Type 3 - Separation of the polymer overlay from the concrete surface.
- Type 4 - Failure within the polymer overlay.
- Type 5 - Failure of the test adhesive.

A properly applied polymer overlay on a properly prepared surface typically will result in a failure in the concrete (Type 1).

e.7 Perform a minimum 4 pull-off tests on each 1½ foot x 3 foot test patch.

e.8 Repair the hole created by the tensile rupture strength test with a mixture of the polymer and aggregate used in the overlay.

**f. Calculations**

f.1 Use the 3 highest values to calculate the Tensile Rupture Strength for the test patch as noted below.

f.1.a For Type 1 failures:

- Tensile Rupture Strengths less than 250 psi will not be used in the average tensile rupture calculation.
- Should one pullout fail below 250 psi the test result will be the average of the two remaining pull-off tests.
- A failure in the concrete below 250 psi indicates weak concrete, not poor overlay bond.

f.1.b For Type 2, 3 or 5 failures use the average of the three highest pull-off values to determine the Tensile Rupture Strength.

f.1.c Type 4 failures will not be accepted or used in calculations.

f.2 Determine the Tensile Rupture Strength for each test core using the following equation:

$$\text{TRS}_x = P/A$$

TRS<sub>x</sub> = Tensile Rupture Strength for one test core.

P = Load (Dynamometer)

A = Area of cored disc, verify the area previous to performing the calculations.

f.2.a This value will be recorded as the result for one test core. Record the result to nearest 10 psi.

f.3 Determine the average Tensile Rupture Strength for each test patch using the following equation.

$$\text{TRS}_{\text{avg}} = \frac{\text{TRS}_1 + \text{TRS}_2 + \dots + \text{TRS}_n}{n}$$

n = number of test cores

f.3.a This value will be recorded as the result for one test patch. Record the result to nearest 10 psi.

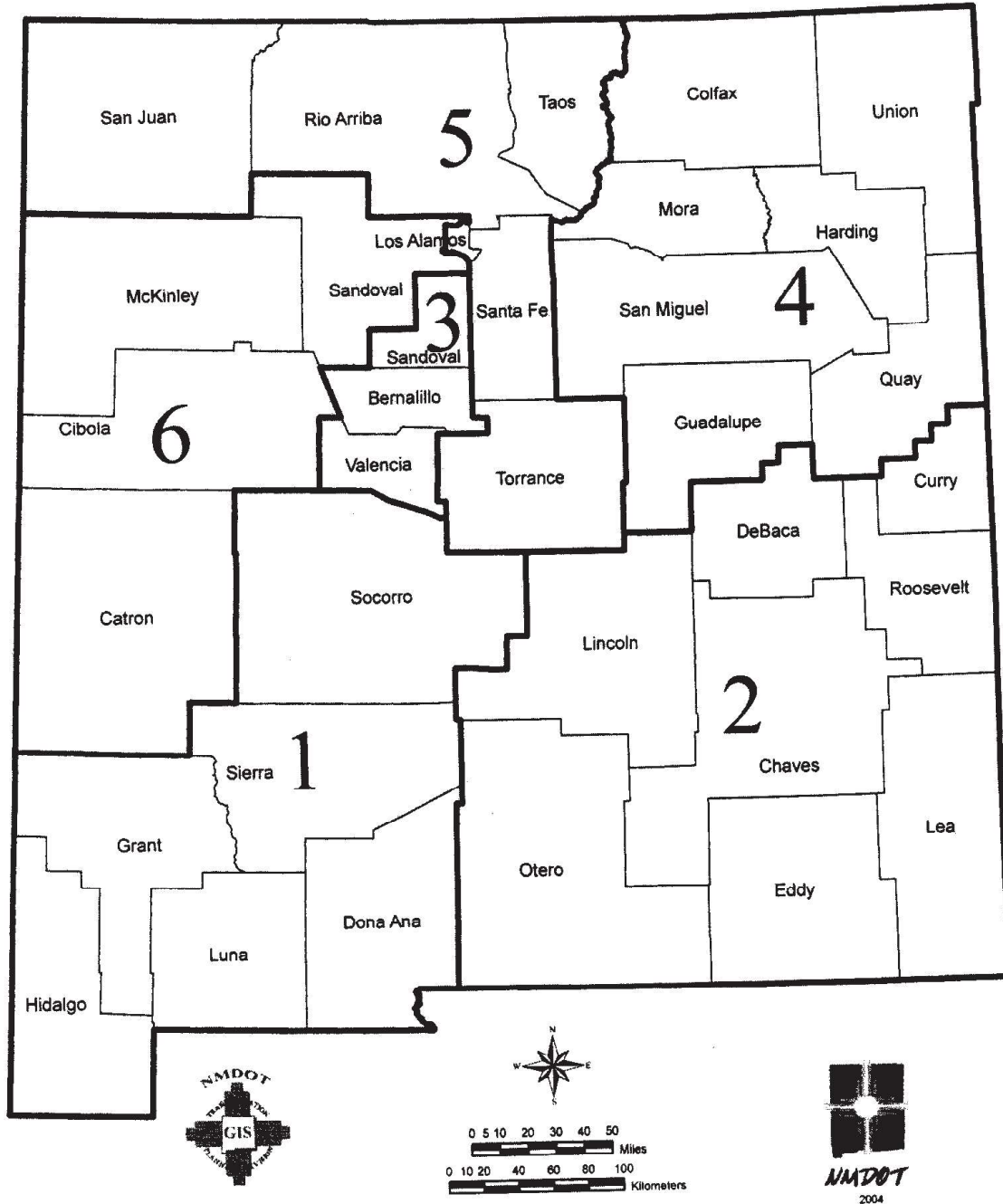
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Figure 1

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
1	S.Y.	<b>Partial Depth Deck Patching – District 1,</b> Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 001. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$1,263.00</b>	<b>\$565.00</b>	<b>\$1,171.00</b>
2	S.Y.	<b>Partial Depth Deck Patching – District 1,</b> Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 002. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,138.00</b>	<b>\$519.00</b>	<b>\$1,117.00</b>
3	S.Y.	<b>Partial Depth Deck Patching – District 1,</b> Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 003. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,046.00</b>	<b>\$517.00</b>	<b>\$1,113.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
4	S.Y.	<b>Full Depth Deck Repair or Replacement – District 1</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 004. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$2,243.00</b>	<b>\$750.00</b>	<b>\$3,318.00</b>
5	S.Y.	<b>Full Depth Deck Repair or Replacement – District 1</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 005. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,917.00</b>	<b>\$655.00</b>	<b>\$2,266.00</b>
6	S.Y.	<b>Full Depth Deck Repair or Replacement – District 1</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 006. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,684.00</b>	<b>\$655.00</b>	<b>\$2,005.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
7	EACH	<b>Embedded Galvanic Anodes – District 1,</b> Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 001, 002 or 003. The actual full depth deck patches will be paid under Item Nos. 004, 005 or 006. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range 0-25 Anodes)	<b>\$19.00</b>	<b>\$15.95</b>	<b>\$57.00</b>
8	EACH	<b>Embedded Galvanic Anodes – District 1,</b> Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 001, 002 or 003. The actual full depth deck patches will be paid under Item Nos. 004, 005 or 006. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range over 25 Anodes)	<b>\$16.00</b>	<b>\$12.85</b>	<b>\$41.00</b>
9	S.Y.	<b>Diamond Grinding of PCCP – District 1,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$321.00</b>	<b>\$230.00</b>	<b>\$848.00</b>
10	S.Y.	<b>Diamond Grinding of PCCP – District 1,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$112.00</b>	<b>\$222.00</b>
11	S.Y.	<b>Diamond Grinding of PCCP – District 1,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$40.85</b>	<b>\$46.00</b>

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12	S.Y.	<b>Diamond Grooving of PCCP – District 1</b> , Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$65.55</b>	<b>\$584.00</b>
13	S.Y.	<b>Diamond Grooving of PCCP – District 1</b> , Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$40.00</b>	<b>\$153.00</b>
14	S.Y.	<b>Diamond Grooving of PCCP – District 1</b> , Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$23.45</b>	<b>\$39.00</b>
15	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 1</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$145.00</b>	<b>\$852.00</b>
16	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 1</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$75.25</b>	<b>\$245.00</b>
17	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 1</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$35.65</b>	<b>\$66.00</b>
18	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 1</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$66.00</b>	<b>\$22.95</b>	<b>\$38.00</b>
19	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 1</b> , Section 535 (Range over 499 Square Yards)	<b>\$43.00</b>	<b>\$18.40</b>	<b>\$22.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
20	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 1, Section 535 (Range 0 to 499 Square Yards)</b>	<b>\$66.00</b>	<b>\$22.95</b>	<b>\$53.00</b>
21	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 1, Section 535 (Range over 499 Square Yards)</b>	<b>\$43.00</b>	<b>\$18.40</b>	<b>\$29.00</b>
22	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 1, Section 536 and Appendix "C" (Range 0 to 499 Square Yards)</b>	<b>\$211.00</b>	<b>\$22.95</b>	<b>\$77.00</b>
23	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 1, Section 536 and Appendix "C" (Range 0 to 499 Square Yards)</b>	<b>\$139.00</b>	<b>\$18.40</b>	<b>\$47.00</b>
24	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 1, As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)</b>	<b>\$273.00</b>	<b>\$24.85</b>	<b>\$113.00</b>
25	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 1, As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)</b>	<b>\$187.00</b>	<b>\$20.35</b>	<b>\$59.00</b>
26	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 1, Section 536 and Appendix "C" (Range 0 to 499 Square Yards)</b>	<b>\$211.00</b>	<b>\$22.95</b>	<b>\$131.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
27	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 1, Section 536 and Appendix "C"</b> (Range over 499 Square Yards)	<b>\$148.00</b>	<b>\$18.40</b>	<b>\$87.00</b>
28	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 1, As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)</b>	<b>\$273.00</b>	<b>\$24.85</b>	<b>\$167.00</b>
29	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 1, As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)</b>	<b>\$187.00</b>	<b>\$20.35</b>	<b>\$109.00</b>
30	S.Y.	<b>Testing Polymer Overlay for Surface Preparation &amp; Adhesion – District 1, Per the requirements and Appendix "D" of this Agreement</b>	<b>\$4,671.00</b>	<b>\$3,000.00</b>	<b>\$4,010.00</b>
31	EACH	<b>Bearing Modification – District 1, Reset existing bearing units or install supplemental or replacement units (includes all jacking) as directed by the Engineer. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Section 560</b>	<b>\$7,176.00</b>	<b>\$2,465.00</b>	<b>\$8,874.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
32	EACH	<p><b>Temporary Shoring (Abutments) – District 1,</b> Temporarily support superstructure elements (each beam end) at abutments, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A</p>	<b>\$6,694.00</b>	<b>\$3,875.00</b>	<b>\$8,371.00</b>
33	EACH	<p><b>Temporary Shoring (Piers) – District 1,</b> Temporarily support superstructure elements (each beam end) at piers, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT project manager 30 calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A</p>	<b>\$6,694.00</b>	<b>\$4,685.00</b>	<b>\$8,371.00</b>
34	HR.	<p><b>Welder &amp; Welder Assistant – District 1,</b> Certified welder and assistant for welding of various components. Section 541.3.6.4.1</p>	<b>\$324.00</b>	<b>\$295.00</b>	<b>\$404.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
35	L.F.	<b>Strip Seal Joint Full Depth Replacement at Abutments – District 1</b> , Removal of existing joint and concrete deck, abutment backwall or sleeper footer and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 035. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$259.25</b>	<b>\$677.00</b>
36	L.F.	<b>Strip Seal Joint Full Depth Replacement at Piers – District 1</b> , Removal of existing joint and concrete deck and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 036. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$290.25</b>	<b>\$625.00</b>
37	L.F.	<b>Strip Seal Joint Partial Depth Replacement – District 1</b> , Removal of existing joint/concrete deck (or abutment backwall) and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$477.00</b>	<b>\$165.50</b>	<b>\$421.00</b>
38	L.F.	<b>Joint Seals – District 1</b> , Removal and replacement of existing joint seals. Section 561, Section 562 and Standard Drawings 562-01	<b>\$124.00</b>	<b>\$53.75</b>	<b>\$143.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
39	L.F.	<b>Pre-Molded Joint Seal – District 1</b> , Removal of existing joint seals and installation of new joint material. Section 564 and Section 565, and Standard Drawing 564-01	<b>\$124.00</b>	<b>\$58.00</b>	<b>\$194.00</b>
40	L.F.	<b>Pre-Molded Joint Seal with Concrete Removal – District 1</b> , Removal of existing joint, existing concrete removal, installation of rapid-set concrete headers and installation of joint components including polymer bridge seals Type "A." Section 512, Section 533, Section 562 and Section 564, Special Provision for Section 512, and Standard Drawing 564-01	<b>\$547.00</b>	<b>\$82.70</b>	<b>\$353.00</b>
41	S.Y.	<b>Concrete Repair – District 1</b> , May include Concrete Box Culvert Repair. Removal of unsound concrete and rebar, forming and placement of new concrete or rapid-set concrete and new/supplemental rebar (where necessary). Section 511, Section 512, Section 515 and Section 533, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 515 and Section 533-01	<b>\$1,422.00</b>	<b>\$640.00</b>	<b>\$624.00</b>
42	C.Y.	<b>Substructure Replacement – District 1</b> , Removal of existing concrete, rebar, etc., straightening of rebar and existing piles etc. to be retained in the new concrete. Includes the forming and placement of new concrete or rapid set concrete for pier caps, columns and abutments. New reinforcement is to be paid under Bid Item No. 046 - Reinforcing Bars. Section 510, Section 533 and Special Provisions for Section 511	<b>\$5,096.00</b>	<b>\$3,055.00</b>	<b>\$2,200.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
43	C.Y.	<b>Backwall Replacement – District 1</b> , Removal of existing joint/concrete forming and replacement with new joint/rapid set concrete or approved concrete. The joint is to be replaced under Bid Item Nos. 035, 037, 038, 039 or 040. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 043. Section 510, Section 511 and Section 533 and Special Provisions for Section 511	<b>\$5,050.00</b>	<b>\$4,245.00</b>	<b>\$2,100.00</b>
44	C.Y.	<b>Concrete Box Culvert Extension – District 1</b> , Forming and placement of new concrete for extension of existing box culverts. Section 511 and Section 512, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 511	<b>\$4,013.00</b>	<b>\$2,595.00</b>	<b>\$1,554.00</b>
45	S.F.	<b>Concrete Slab on Grade – District 1</b> , Removal of concrete, forming and placement of concrete and reinforcement for sidewalks and other small miscellaneous slabs. Section 511 and Section 601, Special Provisions for Section 511, and Standard Drawings for Section 511	<b>\$194.00</b>	<b>\$56.70</b>	<b>\$92.00</b>
46	LBS.	<b>Reinforcing Bars – District 1</b> , Placement of rebar for major repairs and/or replacement of existing concrete structures. If the amount of reinforcement that is to be replaced is under 4,000 lbs. it shall be paid under its respective concrete replacement item. Section 540 and Special Provisions for Section 540 (Range over 4,000 lbs.)	<b>\$4.00</b>	<b>\$5.40</b>	<b>\$4.50</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
47	S.Y.	<b>Penetrating Water Repellent Treatment – District 1</b> , Application of a penetrating water repellent treatment to concrete surfaces to include girder ends, pier caps and abutments. In conformance with approved materials and Manufacturer’s recommendations. Section 532 and Special Provisions for Section 532	<b>\$6.00</b>	<b>\$6.10</b>	<b>\$17.00</b>
48	GAL.	<b>Epoxy Injection – District 1</b> , Epoxy injection of cracks in concrete bridge members, backwalls, etc. Section 534	<b>\$3,009.00</b>	<b>\$3,205.00</b>	<b>\$7,905.00</b>
49	L.F.	<b>Concrete Barrier Railing Replacement – District 1</b> , New or removal of existing railing, forming and replacement with cast-in-place concrete and rebar barrier railing. Section 514, Special Provision for Section 606, and Standard Drawings for Section 514 and Section 606	<b>\$413.00</b>	<b>\$287.50</b>	<b>\$755.00</b>
50	L.F.	<b>Metal Railing (Bridge Railing) – District 1</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range 0-100 linear feet)	<b>\$192.00</b>	<b>\$128.70</b>	<b>\$232.00</b>
51	L.F.	<b>Metal Railing (Bridge Railing) – District 1</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range over 100 linear feet)	<b>\$160.00</b>	<b>\$120.55</b>	<b>\$192.00</b>
52	S.F.	<b>Surface Preparation And Recoating Of Concrete Surfaces – District 1</b> , Section 511	<b>\$16.00</b>	<b>\$8.55</b>	<b>\$17.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
53	S.F.	<b>Surface Preparation And Recoating of Steel Structural Components – District 1</b> , Prepare surface per Section 546.3.1.2 Power-Tool Cleaning to Bare Metal (SSPC-SP11) and recoat steel structural components. Section 546 and Section 547 and Special Provisions for Section 546	<b>\$59.00</b>	<b>\$57.00</b>	<b>\$63.50</b>
54	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Initial Layer) – District 1</b> , Application of initial Fiber Reinforced Polymer (FRP) layer per contract. Section 533 and Special Provisions for Section 533-A	<b>\$112.00</b>	<b>\$92.25</b>	<b>\$51.00</b>
55	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Additional Layers) – District 1</b> , Application of additional Fiber Reinforced Polymer (FRP) layers per contract. Section 533 and Special Provisions for Section 533-A	<b>\$90.00</b>	<b>\$54.10</b>	<b>\$26.00</b>
56	S.F.	<b>FRP Finish Coat (Final) – District 1</b> , Application of Fiber Reinforced Polymer (FRP) finish coat per contract. Section 533 and Special Provisions for Section 533-A	<b>\$64.00</b>	<b>\$16.15</b>	<b>\$5.00</b>
57	L.F.	<b>12 Inch - 48 Inch CMP Run Down – District 1</b> , Install 12 inch to 48 inch diameter corrugated metal pipe on slopes. Section 206, Section 570 and Section 605, and Standard Drawings for Section 206 and Section 570	<b>\$133.00</b>	<b>\$85.00</b>	<b>\$264.00</b>
58	C.Y.	<b>Rip Rap or Gabions – District 1</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range 0-10 Cubic Yards)	<b>\$1,074.00</b>	<b>\$416.35</b>	<b>\$691.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
59	C.Y.	<b>Rip Rap or Gabions – District 1</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range over 10 Cubic Yards)	<b>\$1,048.00</b>	<b>\$248.85</b>	<b>\$442.00</b>
60	C.Y.	<b>Erosion Repair – District 1</b> , Grading and backfilling to return eroded slopes to their original design contours (hauling of material is not included). Section 207 and Special Provision for Section 207	<b>\$67.00</b>	<b>\$64.50</b>	<b>\$131.00</b>
61	C.Y.	<b>Placement Of Flowable Fill – District 1</b> , This work consists of providing and placing flowable fill. Section 516	<b>\$441.00</b>	<b>\$90.00</b>	<b>\$412.00</b>
62	S.F.	<b>Slope Paving – District 1</b> , Concrete forming and placement of new concrete and reinforcement for concrete paved slopes. Section 515, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$23.00</b>	<b>\$16.95</b>	<b>\$21.00</b>
63	S.F.	<b>Slope Paving Repair – District 1</b> , Removal and replacement of concrete at existing concrete paved slopes. Section 515 and Section 533, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$44.00</b>	<b>\$32.85</b>	<b>\$29.00</b>
64	L.F.	<b>Temporary Concrete Wall Barrier Placement – District 1</b> , Transport, place and return precast concrete wall barrier as directed by the Project Manager. Special Provision for Section 606 and Standard Drawings 606-20	<b>\$34.00</b>	<b>\$14.50</b>	<b>\$123.00</b>
65	L.F.	<b>Temporary Concrete Wall Barrier Reset – District 1</b> , Reset existing precast concrete wall barrier. Section 606 (Metal and Concrete Wall Barrier)	<b>\$10.00</b>	<b>\$12.40</b>	<b>\$23.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
66	HRS.	<b>Traffic Control Work Hours Per Lane (Urban Areas) – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$149.50</b>	<b>\$790.00</b>
67	DAYS	<b>Traffic Control Work Days Per Lane (Urban Areas) – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,431.00</b>	<b>\$1,495.00</b>	<b>\$5,012.00</b>
68	HRS.	<b>Traffic Control Work Hours Per Lane (Rural Areas) – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$89.70</b>	<b>\$1,099.00</b>
69	DAYS	<b>Traffic Control Work Days Per Lane (Rural Areas) – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,431.00</b>	<b>\$897.00</b>	<b>\$5,011.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
70	HRS.	<b>Traffic Control Work Hours Beyond the Shoulder – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$89.70</b>	<b>\$1,214.00</b>
71	DAYS	<b>Traffic Control Work Days Beyond the Shoulder – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,986.00</b>	<b>\$897.00</b>	<b>\$4,202.00</b>
72	HRS.	<b>Traffic Control Shoulder Closure Hours on Freeway – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$72.60</b>	<b>\$783.00</b>
73	DAYS	<b>Traffic Control Shoulder Closure Days on Freeway – District 1</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,987.00</b>	<b>\$726.00</b>	<b>\$4,279.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
74	BARRELS	<b>Crash Cushion – District 1</b> , Furnish, install, reset, remove and maintain sand barrel crash cushion. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and 702-C, and Standard Drawings 702-01	<b>\$3,166.00</b>	<b>\$1,445.00</b>	<b>\$1,375.00</b>
75	HRS.	<b>Flagging Traffic Control (Urban Areas) – District 1</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in urban areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>\$60.00</b>
76	HRS.	<b>Flagging Traffic Control (Rural Areas) – District 1</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in rural areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>\$60.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
77	HRS.	<b>Variable Message Board – District 1,</b> Provide, place and maintain each variable message board required by the District during traffic control operations. Section 702 and Special Provisions for Section 702-C	<b>\$41.00</b>	<b>\$25.00</b>	<b>\$39.00</b>
78	HRS.	<b>Signalized Traffic Control – District 1,</b> Provide all traffic control devices necessary for signalization of 2-way traffic. Implement the signalization set up, monitor and maintain the setup. Section 701, Section 702 and Section 705 and Special Provisions for Section 702-C	<b>\$145.00</b>	<b>\$35.00</b>	<b>\$1,703.00</b>
79	L.F.	<b>Permanent Striping – District 1,</b> Provide and place pavement striping using paint and traffic beads in work zones. Section 704	<b>\$0.70</b>	<b>\$11.55</b>	<b>\$14.00</b>
80	L.F.	<b>Marking Tape – District 1,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704	<b>\$4.20</b>	<b>\$3.10</b>	<b>\$16.00</b>
81	EACH	<b>Reflectorized Pavement Tabs – District 1,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704, Special Provisions for Section 704-A, and Standard Drawings for Section 704	<b>\$5.80</b>	<b>\$8.30</b>	<b>\$39.00</b>
82	L.F.	<b>Eradication of Pavement Markings – District 1,</b> Removal of existing pavement markings. Section 721	<b>\$1.40</b>	<b>\$36.45</b>	<b>\$42.00</b>
83	S.F.	<b>Panel Signs – District 1,</b> Installation of miscellaneous panel signs, bases and posts. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 701 and Standard Drawings for Section 701	<b>\$122.00</b>	<b>\$35.00</b>	<b>\$116.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
84	MILE	<b>Mobilization – District 1</b> , No payment will be made for moves of less than twenty-five (25) miles. Mileage will be measured and paid from the Contractor’s designated base station to the job site or when applicable mileage will be measured from an existing job site to the new job site and payment will be for whichever distance is less. No payment will be made for the Contractor’s return to their designated base station.	<b>\$58.00</b>	<b>\$57.60</b>	<b>\$25.00</b>
85	PERCENT	<b>Discount / Payment for Invoice Items – District 1</b> , Amount of discount allowed on itemized materials. Invoice for accepted work. Approved invoice for accepted work approved and in place.	<b>0 Percent</b>	<b>0 Percent</b>	<b>0 Percent</b>
86	S.Y.	<b>Partial Depth Deck Patching – District 2</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 086. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$1,315.00</b>	<b>\$565.00</b>	<b>\$1,171.00</b>
87	S.Y.	<b>Partial Depth Deck Patching – District 2</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 087. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,185.00</b>	<b>\$519.00</b>	<b>\$1,117.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
88	S.Y.	<b>Partial Depth Deck Patching – District 2,</b> Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 088. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,089.00</b>	<b>\$517.00</b>	<b>\$1,113.00</b>
89	S.Y.	<b>Full Depth Deck Repair or Replacement – District 2,</b> Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 089. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$2,329.00</b>	<b>\$750.00</b>	<b>\$3,318.00</b>
90	S.Y.	<b>Full Depth Deck Repair or Replacement – District 2,</b> Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 090. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,992.00</b>	<b>\$655.00</b>	<b>\$2,266.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
91	S.Y.	<b>Full Depth Deck Repair or Replacement – District 2</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 091. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,749.00</b>	<b>\$655.00</b>	<b>\$2,005.00</b>
92	EACH	<b>Embedded Galvanic Anodes – District 2</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 086, 087 or 088. The actual full depth deck patches will be paid under Item Nos. 089, 090 or 091. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range 0-25 Anodes)	<b>\$20.00</b>	<b>\$15.95</b>	<b>\$57.00</b>
93	EACH	<b>Embedded Galvanic Anodes – District 2</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 086, 087 or 088. The actual full depth deck patches will be paid under Item Nos. 089, 090 or 091. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range over 25 Anodes)	<b>\$17.00</b>	<b>\$12.85</b>	<b>\$41.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
94	S.Y.	<b>Diamond Grinding of PCCP – District 2,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$327.00</b>	<b>\$230.00</b>	<b>\$848.00</b>
95	S.Y.	<b>Diamond Grinding of PCCP – District 2,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$353.00</b>	<b>\$112.00</b>	<b>\$222.00</b>
96	S.Y.	<b>Diamond Grinding of PCCP – District 2,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range over 200 Square Yards)	<b>\$353.00</b>	<b>\$40.85</b>	<b>\$46.00</b>
97	S.Y.	<b>Diamond Grooving of PCCP – District 2,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$353.00</b>	<b>\$65.55</b>	<b>\$584.00</b>
98	S.Y.	<b>Diamond Grooving of PCCP – District 2,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$353.00</b>	<b>\$40.00</b>	<b>\$153.00</b>
99	S.Y.	<b>Diamond Grooving of PCCP – District 2,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range over 200 Square Yards)	<b>\$353.00</b>	<b>\$23.45</b>	<b>\$39.00</b>
100	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 2,</b> Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$353.00</b>	<b>\$145.00</b>	<b>\$852.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
101	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 2</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$353.00</b>	<b>\$75.25</b>	<b>\$245.00</b>
102	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 2</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range over 200 Square Yards)	<b>\$353.00</b>	<b>\$35.65</b>	<b>\$66.00</b>
103	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 2</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$70.00</b>	<b>\$22.95</b>	<b>\$38.00</b>
104	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 2</b> , Section 535 (Range over 499 Square Yards)	<b>\$45.00</b>	<b>\$18.40</b>	<b>\$22.00</b>
105	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 2</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$70.00</b>	<b>\$22.95</b>	<b>\$53.00</b>
106	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 2</b> , Section 535 (Range over 499 Square Yards)	<b>\$45.00</b>	<b>\$18.40</b>	<b>\$29.00</b>
107	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 2</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$220.00</b>	<b>\$22.95</b>	<b>\$77.00</b>
108	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 2</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$144.00</b>	<b>\$18.40</b>	<b>\$47.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
109	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 2</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$285.00</b>	<b>\$24.85</b>	<b>\$113.00</b>
110	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 2</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$195.00</b>	<b>\$20.35</b>	<b>\$59.00</b>
111	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 2</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$220.00</b>	<b>\$22.95</b>	<b>\$131.00</b>
112	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 2</b> , Section 536 and Appendix "C" (Range over 499 Square Yards)	<b>\$154.00</b>	<b>\$18.40</b>	<b>\$87.00</b>
113	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 2</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$285.00</b>	<b>\$24.85</b>	<b>\$167.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
114	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 2</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$195.00</b>	<b>\$20.35</b>	<b>\$109.00</b>
115	S.Y.	<b>Testing Polymer Overlay for Surface Preparation &amp; Adhesion – District 2</b> , Per the requirements and Appendix "D" of this Agreement	<b>\$4,839.00</b>	<b>\$3,000.00</b>	<b>\$4,010.00</b>
116	EACH	<b>Bearing Modification – District 2</b> , Reset existing bearing units or install supplemental or replacement units (includes all jacking) as directed by the Engineer. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Section 560	<b>\$7,392.00</b>	<b>\$2,465.00</b>	<b>\$8,874.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
117	EACH	<b>Temporary Shoring (Abutments) – District 2</b> , Temporarily support superstructure elements (each beam end) at abutments, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,887.00</b>	<b>\$3,875.00</b>	<b>\$8,371.00</b>
118	EACH	<b>Temporary Shoring (Piers) – District 2</b> , Temporarily support superstructure elements (each beam end) at piers, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT project manager 30 calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,887.00</b>	<b>\$4,685.00</b>	<b>\$8,371.00</b>
119	HOUR	<b>Welder &amp; Welder Assistant – District 2</b> , Certified welder and assistant for welding of various components. Section 541.3.6.4.1	<b>\$337.00</b>	<b>\$295.00</b>	<b>\$404.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
120	L.F.	<b>Strip Seal Joint Full Depth Replacement at Abutments – District 2</b> , Removal of existing joint and concrete deck, abutment backwall or sleeper footer and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 120. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$625.00</b>	<b>\$259.25</b>	<b>\$677.00</b>
121	L.F.	<b>Strip Seal Joint Full Depth Replacement at Piers – District 2</b> , Removal of existing joint and concrete deck and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 121. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$626.00</b>	<b>\$290.25</b>	<b>\$625.00</b>
122	L.F.	<b>Strip Seal Joint Partial Depth Replacement – District 2</b> , Removal of existing joint/concrete deck (or abutment backwall) and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$497.00</b>	<b>\$165.50</b>	<b>\$421.00</b>
123	L.F.	<b>Joint Seals – District 2</b> , Removal and replacement of existing joint seals. Section 561, Section 562 and Standard Drawings 562-01	<b>\$129.00</b>	<b>\$53.75</b>	<b>\$143.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
124	L.F.	<b>Pre-Molded Joint Seal – District 2</b> , Removal of existing joint seals and installation of new joint material. Section 564 and Section 565, and Standard Drawing 564-01	<b>\$129.00</b>	<b>\$58.00</b>	<b>\$194.00</b>
125	L.F.	<b>Pre-Molded Joint Seal with Concrete Removal – District 2</b> , Removal of existing joint, existing concrete removal, installation of rapid-set concrete headers and installation of joint components including polymer bridge seals Type "A." Section 512, Section 533, Section 562 and Section 564, Special Provision for Section 512, and Standard Drawing 564-01	<b>\$568.00</b>	<b>\$82.70</b>	<b>\$353.00</b>
126	S.Y.	<b>Concrete Repair – District 2</b> , May include Concrete Box Culvert Repair. Removal of unsound concrete and rebar, forming and placement of new concrete or rapid-set concrete and new/supplemental rebar (where necessary). Section 511, Section 512, Section 515 and Section 533, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 515 and Section 533-01	<b>\$1,496.00</b>	<b>\$640.00</b>	<b>\$624.00</b>
127	C.Y.	<b>Substructure Replacement – District 2</b> , Removal of existing concrete, rebar, etc., straightening of rebar and existing piles etc. to be retained in the new concrete. Includes the forming and placement of new concrete or rapid set concrete for pier caps, columns and abutments. New reinforcement is to be paid under Bid Item No. 131 - Reinforcing Bars. Section 510, Section 533 and Special Provisions for Section 511	<b>\$5,241.00</b>	<b>\$3,055.00</b>	<b>\$2,200.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
128	C.Y.	<b>Backwall Replacement – District 2</b> , Removal of existing joint/concrete forming and replacement with new joint/rapid set concrete or approved concrete. The joint is to be replaced under Bid Item Nos. 120, 122, 123, 124 or 125. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 128. Section 510, Section 511 and Section 533 and Special Provisions for Section 511	<b>\$5,225.00</b>	<b>\$4,245.00</b>	<b>\$2,100.00</b>
129	C.Y.	<b>Concrete Box Culvert Extension – District 2</b> , Forming and placement of new concrete for extension of existing box culverts. Section 511 and Section 512, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 511	<b>\$4,163.00</b>	<b>\$2,595.00</b>	<b>\$1,554.00</b>
130	S.F.	<b>Concrete Slab on Grade – District 2</b> , Removal of concrete, forming and placement of concrete and reinforcement for sidewalks and other small miscellaneous slabs. Section 511 and Section 601, Special Provisions for Section 511, and Standard Drawings for Section 511	<b>\$203.00</b>	<b>\$56.70</b>	<b>\$92.00</b>
131	LBS.	<b>Reinforcing Bars – District 2</b> , Placement of rebar for major repairs and/or replacement of existing concrete structures. If the amount of reinforcement that is to be replaced is under 4,000 lbs. it shall be paid under its respective concrete replacement item. Section 540 and Special Provisions for Section 540 (Range over 4,000 lbs.)	<b>\$5.00</b>	<b>\$5.40</b>	<b>\$4.50</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
132	S.Y.	<b>Penetrating Water Repellent Treatment – District 2</b> , Application of a penetrating water repellent treatment to concrete surfaces to include girder ends, pier caps and abutments. In conformance with approved materials and Manufacturer’s recommendations. Section 532 and Special Provisions for Section 532	<b>\$6.00</b>	<b>\$6.10</b>	<b>\$17.00</b>
133	GAL.	<b>Epoxy Injection – District 2</b> , Epoxy injection of cracks in concrete bridge members, backwalls, etc. Section 534	<b>\$3,149.00</b>	<b>\$3,205.00</b>	<b>\$7,905.00</b>
134	L.F.	<b>Concrete Barrier Railing Replacement – District 2</b> , New or removal of existing railing, forming and replacement with cast-in-place concrete and rebar barrier railing. Section 514, Special Provision for Section 606, and Standard Drawings for Section 514 and Section 606	<b>\$427.00</b>	<b>\$287.50</b>	<b>\$755.00</b>
135	L.F.	<b>Metal Railing (Bridge Railing) – District 2</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range 0-100 linear feet)	<b>\$201.00</b>	<b>\$128.70</b>	<b>\$232.00</b>
136	L.F.	<b>Metal Railing (Bridge Railing) – District 2</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range over 100 linear feet)	<b>\$168.00</b>	<b>\$120.55</b>	<b>\$192.00</b>
137	S.F.	<b>Surface Preparation And Recoating Of Concrete Surfaces – District 2</b> , Section 511	<b>\$16.00</b>	<b>\$8.55</b>	<b>\$17.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
138	S.F.	<b>Surface Preparation And Recoating of Steel Structural Components – District 2</b> , Prepare surface per Section 546.3.1.2 Power-Tool Cleaning to Bare Metal (SSPC-SP11) and recoat steel structural components. Section 546 and Section 547 and Special Provisions for Section 546	<b>\$60.00</b>	<b>\$57.00</b>	<b>\$63.50</b>
139	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Initial Layer) – District 2</b> , Application of initial Fiber Reinforced Polymer (FRP) layer per contract. Section 533 and Special Provisions for Section 533-A	<b>\$117.00</b>	<b>\$92.25</b>	<b>\$51.00</b>
140	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Additional Layers) – District 2</b> , Application of additional Fiber Reinforced Polymer (FRP) layers per contract. Section 533 and Special Provisions for Section 533-A	<b>\$94.00</b>	<b>\$54.10</b>	<b>\$26.00</b>
141	S.F.	<b>FRP Finish Coat (Final) – District 2</b> , Application of Fiber Reinforced Polymer (FRP) finish coat per contract. Section 533 and Special Provisions for Section 533-A	<b>\$67.00</b>	<b>\$16.15</b>	<b>\$5.00</b>
142	L.F.	<b>12 Inch - 48 Inch CMP Run Down – District 2</b> , Install 12 inch to 48 inch diameter corrugated metal pipe on slopes. Section 206, Section 570 and Section 605, and Standard Drawings for Section 206 and Section 570	<b>\$139.00</b>	<b>\$85.00</b>	<b>\$264.00</b>
143	C.Y.	<b>Rip Rap or Gabions – District 2</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range 0-10 Cubic Yards)	<b>\$1,125.00</b>	<b>\$416.35</b>	<b>\$691.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
144	C.Y.	<b>Rip Rap or Gabions – District 2</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range over 10 Cubic Yards)	<b>\$1,097.00</b>	<b>\$248.85</b>	<b>\$442.00</b>
145	C.Y.	<b>Erosion Repair – District 2</b> , Grading and backfilling to return eroded slopes to their original design contours (hauling of material is not included). Section 207 and Special Provision for Section 207	<b>\$70.00</b>	<b>\$64.50</b>	<b>\$131.00</b>
146	C.Y.	<b>Placement Of Flowable Fill – District 2</b> , This work consists of providing and placing flowable fill. Section 516	<b>\$451.00</b>	<b>\$90.00</b>	<b>\$412.00</b>
147	S.F.	<b>Slope Paving – District 2</b> , Concrete forming and placement of new concrete and reinforcement for concrete paved slopes. Section 515, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$24.00</b>	<b>\$16.95</b>	<b>\$21.00</b>
148	S.F.	<b>Slope Paving Repair – District 2</b> , Removal and replacement of concrete at existing concrete paved slopes. Section 515 and Section 533, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$46.00</b>	<b>\$32.85</b>	<b>\$29.00</b>
149	L.F.	<b>Temporary Concrete Wall Barrier Placement – District 2</b> , Transport, place and return precast concrete wall barrier as directed by the Project Manager. Special Provision for Section 606 and Standard Drawings 606-20	<b>\$36.00</b>	<b>\$14.50</b>	<b>\$123.00</b>
150	L.F.	<b>Temporary Concrete Wall Barrier Reset – District 2</b> , Reset existing precast concrete wall barrier. Section 606 (Metal and Concrete Wall Barrier)	<b>\$10.00</b>	<b>\$12.40</b>	<b>\$23.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
151	HRS.	<b>Traffic Control Work Hours Per Lane (Urban Areas) – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$316.00</b>	<b>\$149.50</b>	<b>\$790.00</b>
152	DAYS	<b>Traffic Control Work Days Per Lane (Urban Areas) – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,528.00</b>	<b>\$1,495.00</b>	<b>\$5,012.00</b>
153	HRS.	<b>Traffic Control Work Hours Per Lane (Rural Areas) – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$316.00</b>	<b>\$89.70</b>	<b>\$1,099.00</b>
154	DAYS	<b>Traffic Control Work Days Per Lane (Rural Areas) – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,528.00</b>	<b>\$897.00</b>	<b>\$5,011.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
155	HRS.	<b>Traffic Control Work Hours Beyond the Shoulder – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$247.00</b>	<b>\$89.70</b>	<b>\$1,214.00</b>
156	DAYS	<b>Traffic Control Work Days Beyond the Shoulder – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,064.00</b>	<b>\$897.00</b>	<b>\$4,202.00</b>
157	HRS.	<b>Traffic Control Shoulder Closure Hours on Freeway – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$247.00</b>	<b>\$72.60</b>	<b>\$783.00</b>
158	DAYS	<b>Traffic Control Shoulder Closure Days on Freeway – District 2</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,066.00</b>	<b>\$726.00</b>	<b>\$4,279.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
159	Barrel	<b>Crash Cushion – District 2</b> , Furnish, install, reset, remove and maintain sand barrel crash cushion. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and 702-C, and Standard Drawings 702-01	<b>\$3,261.00</b>	<b>\$1,445.00</b>	<b>\$1,375.00</b>
160	HRS.	<b>Flagging Traffic Control (Urban Areas) – District 2</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in urban areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$83.00</b>	<b>\$67.35</b>	<b>\$60.00</b>
161	HRS.	<b>Flagging Traffic Control (Rural Areas) – District 2</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in rural areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$83.00</b>	<b>\$67.35</b>	<b>\$60.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
162	HRS.	<b>Variable Message Board – District 2,</b> Provide, place and maintain each variable message board required by the District during traffic control operations. Section 702 and Special Provisions for Section 702-C	<b>\$43.00</b>	<b>\$25.00</b>	<b>\$39.00</b>
163	HRS.	<b>Signalized Traffic Control – District 2,</b> Provide all traffic control devices necessary for signalization of 2-way traffic. Implement the signalization set up, monitor and maintain the setup. Section 701, Section 702 and Section 705 and Special Provisions for Section 702-C	<b>\$147.00</b>	<b>\$35.00</b>	<b>\$1,703.00</b>
164	L.F.	<b>Permanent Striping – District 2,</b> Provide and place pavement striping using paint and traffic beads in work zones. Section 704	<b>\$0.70</b>	<b>\$11.55</b>	<b>\$14.00</b>
165	L.F.	<b>Marking Tape – District 2,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704	<b>\$4.40</b>	<b>\$3.10</b>	<b>\$16.00</b>
166	EACH	<b>Reflectorized Pavement Tabs – District 2,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704, Special Provisions for Section 704-A, and Standard Drawings for Section 704	<b>\$5.80</b>	<b>\$8.30</b>	<b>\$39.00</b>
167	L.F.	<b>Eradication of Pavement Markings – District 2,</b> Removal of existing pavement markings. Section 721	<b>\$1.40</b>	<b>\$36.45</b>	<b>\$42.00</b>
168	S.F.	<b>Panel Signs – District 2,</b> Installation of miscellaneous panel signs, bases and posts. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 701 and Standard Drawings for Section 701	<b>\$124.00</b>	<b>\$35.00</b>	<b>\$116.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
169	MILE	<b>Mobilization – District 2</b> , No payment will be made for moves of less than twenty-five (25) miles. Mileage will be measured and paid from the Contractor’s designated base station to the job site or when applicable mileage will be measured from an existing job site to the new job site and payment will be for whichever distance is less. No payment will be made for the Contractor’s return to their designated base station.	<b>\$59.00</b>	<b>\$57.60</b>	<b>\$25.00</b>
170	EACH	<b>Discount / Payment for Invoice Items – District 2</b> , Amount of discount allowed on itemized materials. Invoice for accepted work. Approved invoice for accepted work approved and in place.	<b>0 Percent</b>	<b>0 Percent</b>	<b>0 Percent</b>
171	S.Y.	<b>Partial Depth Deck Patching – District 3</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 171. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$1,073.00</b>	<b>\$565.00</b>	<b>\$1,171.00</b>
172	S.Y.	<b>Partial Depth Deck Patching – District 3</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 172. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$966.00</b>	<b>\$519.00</b>	<b>\$1,117.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
173	S.Y.	<b>Partial Depth Deck Patching – District 3</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 173. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$888.00</b>	<b>\$517.00</b>	<b>\$1,113.00</b>
174	S.Y.	<b>Full Depth Deck Repair or Replacement – District 3</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 174. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$1,921.00</b>	<b>\$750.00</b>	<b>\$3,318.00</b>
175	S.Y.	<b>Full Depth Deck Repair or Replacement – District 3</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 175. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,641.00</b>	<b>\$655.00</b>	<b>\$2,266.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
176	S.Y.	<b>Full Depth Deck Repair or Replacement – District 3</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 176. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,442.00</b>	<b>\$655.00</b>	<b>\$2,005.00</b>
177	EACH	<b>Embedded Galvanic Anodes – District 3</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 171, 172 or 173. The actual full depth deck patches will be paid under Item Nos. 174, 175 or 176. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range 0-25 Anodes)	<b>\$15.00</b>	<b>\$15.95</b>	<b>\$57.00</b>
178	EACH	<b>Embedded Galvanic Anodes – District 3</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 171, 172 or 173. The actual full depth deck patches will be paid under Item Nos. 174, 175 or 176. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range over 25 Anodes)	<b>\$12.00</b>	<b>\$12.85</b>	<b>\$41.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
179	S.Y.	<b>Diamond Grinding of PCCP – District 3,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$300.00</b>	<b>\$230.00</b>	<b>\$848.00</b>
180	S.Y.	<b>Diamond Grinding of PCCP – District 3,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$321.00</b>	<b>\$112.00</b>	<b>\$222.00</b>
181	S.Y.	<b>Diamond Grinding of PCCP – District 3,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range over 200 Square Yards)	<b>\$321.00</b>	<b>\$40.85</b>	<b>\$46.00</b>
182	S.Y.	<b>Diamond Grooving of PCCP – District 3,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$321.00</b>	<b>\$65.55</b>	<b>\$584.00</b>
183	S.Y.	<b>Diamond Grooving of PCCP – District 3,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$321.00</b>	<b>\$40.00</b>	<b>\$153.00</b>
184	S.Y.	<b>Diamond Grooving of PCCP – District 3,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range over 200 Square Yards)	<b>\$321.00</b>	<b>\$23.45</b>	<b>\$39.00</b>
185	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 3,</b> Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$321.00</b>	<b>\$145.00</b>	<b>\$852.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
186	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 3</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$321.00</b>	<b>\$75.25</b>	<b>\$245.00</b>
187	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 3</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range over 200 Square Yards)	<b>\$321.00</b>	<b>\$35.65</b>	<b>\$66.00</b>
188	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 3</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$55.00</b>	<b>\$22.95</b>	<b>\$38.00</b>
189	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 3</b> , Section 535 (Range over 499 Square Yards)	<b>\$36.00</b>	<b>\$18.40</b>	<b>\$22.00</b>
190	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 3</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$55.00</b>	<b>\$22.95</b>	<b>\$53.00</b>
191	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 3</b> , Section 535 (Range over 499 Square Yards)	<b>\$36.00</b>	<b>\$18.40</b>	<b>\$29.00</b>
192	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 3</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$181.00</b>	<b>\$22.95</b>	<b>\$77.00</b>
193	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 3</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$119.00</b>	<b>\$18.40</b>	<b>\$47.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
194	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 3</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$231.00</b>	<b>\$24.85</b>	<b>\$113.00</b>
195	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 3</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$160.00</b>	<b>\$20.35</b>	<b>\$59.00</b>
196	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 3</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$181.00</b>	<b>\$22.95</b>	<b>\$131.00</b>
197	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 3</b> , Section 536 and Appendix "C" (Range over 499 Square Yards)	<b>\$129.00</b>	<b>\$18.40</b>	<b>\$87.00</b>
198	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 3</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$231.00</b>	<b>\$24.85</b>	<b>\$167.00</b>

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199	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 3</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$160.00</b>	<b>\$20.35</b>	<b>\$109.00</b>
200	S.Y.	<b>Testing Polymer Overlay for Surface Preparation &amp; Adhesion – District 3</b> , Per the requirements and Appendix "D" of this Agreement	<b>\$4,025.00</b>	<b>\$3,000.00</b>	<b>\$4,010.00</b>
201	EACH	<b>Bearing Modification – District 3</b> , Reset existing bearing units or install supplemental or replacement units (includes all jacking) as directed by the Engineer. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Section 560	<b>\$6,352.00</b>	<b>\$2,465.00</b>	<b>\$8,874.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
202	EACH	<b>Temporary Shoring (Abutments) – District 3</b> , Temporarily support superstructure elements (each beam end) at abutments, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$5,949.00</b>	<b>\$3,875.00</b>	<b>\$8,371.00</b>
203	EACH	<b>Temporary Shoring (Piers) – District 3</b> , Temporarily support superstructure elements (each beam end) at piers, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT project manager 30 calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$5,949.00</b>	<b>\$4,685.00</b>	<b>\$8,371.00</b>
204	HOUR	<b>Welder &amp; Welder Assistant – District 3</b> , Certified welder and assistant for welding of various components. Section 541.3.6.4.1	<b>\$279.00</b>	<b>\$295.00</b>	<b>\$404.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
205	L.F.	<b>Strip Seal Joint Full Depth Replacement at Abutments – District 3</b> , Removal of existing joint and concrete deck, abutment backwall or sleeper footer and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 205. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$521.00</b>	<b>\$259.25</b>	<b>\$677.00</b>
206	L.F.	<b>Strip Seal Joint Full Depth Replacement at Piers – District 3</b> , Removal of existing joint and concrete deck and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 206. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$522.00</b>	<b>\$290.25</b>	<b>\$625.00</b>
207	L.F.	<b>Strip Seal Joint Partial Depth Replacement – District 3</b> , Removal of existing joint/concrete deck (or abutment backwall) and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$409.00</b>	<b>\$165.50</b>	<b>\$421.00</b>
208	L.F.	<b>Joint Seals – District 3</b> , Removal and replacement of existing joint seals. Section 561, Section 562 and Standard Drawings 562-01	<b>\$107.00</b>	<b>\$53.75</b>	<b>\$143.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
209	L.F.	<b>Pre-Molded Joint Seal – District 3</b> , Removal of existing joint seals and installation of new joint material. Section 564 and Section 565, and Standard Drawing 564-01	<b>\$107.00</b>	<b>\$58.00</b>	<b>\$194.00</b>
210	L.F.	<b>Pre-Molded Joint Seal with Concrete Removal – District 3</b> , Removal of existing joint, existing concrete removal, installation of rapid-set concrete headers and installation of joint components including polymer bridge seals Type "A." Section 512, Section 533, Section 562 and Section 564, Special Provision for Section 512, and Standard Drawing 564-01	<b>\$473.00</b>	<b>\$82.70</b>	<b>\$353.00</b>
211	S.Y.	<b>Concrete Repair – District 3</b> , May include Concrete Box Culvert Repair. Removal of unsound concrete and rebar, forming and placement of new concrete or rapid-set concrete and new/supplemental rebar (where necessary). Section 511, Section 512, Section 515 and Section 533, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 515 and Section 533-01	<b>\$1,156.00</b>	<b>\$640.00</b>	<b>\$624.00</b>
212	C.Y.	<b>Substructure Replacement – District 3</b> , Removal of existing concrete, rebar, etc., straightening of rebar and existing piles etc. to be retained in the new concrete. Includes the forming and placement of new concrete or rapid set concrete for pier caps, columns and abutments. New reinforcement is to be paid under Bid Item No. 216 - Reinforcing Bars. Section 510, Section 533 and Special Provisions for Section 511	<b>\$4,552.00</b>	<b>\$3,055.00</b>	<b>\$2,200.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
213	C.Y.	<b>Backwall Replacement – District 3</b> , Removal of existing joint/concrete forming and replacement with new joint/rapid set concrete or approved concrete. The joint is to be replaced under Bid Item Nos. 205, 207, 208, 209 or 210. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 213. Section 510, Section 511 and Section 533 and Special Provisions for Section 511	<b>\$4,394.00</b>	<b>\$4,245.00</b>	<b>\$2,100.00</b>
214	C.Y.	<b>Concrete Box Culvert Extension – District 3</b> , Forming and placement of new concrete for extension of existing box culverts. Section 511 and Section 512, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 511	<b>\$3,453.00</b>	<b>\$2,595.00</b>	<b>\$1,554.00</b>
215	S.F.	<b>Concrete Slab on Grade – District 3</b> , Removal of concrete, forming and placement of concrete and reinforcement for sidewalks and other small miscellaneous slabs. Section 511 and Section 601, Special Provisions for Section 511, and Standard Drawings for Section 511	<b>\$164.00</b>	<b>\$56.70</b>	<b>\$92.00</b>
216	LBS.	<b>Reinforcing Bars – District 3</b> , Placement of rebar for major repairs and/or replacement of existing concrete structures. If the amount of reinforcement that is to be replaced is under 4,000 lbs. it shall be paid under its respective concrete replacement item. Section 540 and Special Provisions for Section 540 (Range over 4,000 lbs.)	<b>\$4.00</b>	<b>\$5.40</b>	<b>\$4.50</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
217	S.Y.	<b>Penetrating Water Repellent Treatment – District 3</b> , Application of a penetrating water repellent treatment to concrete surfaces to include girder ends, pier caps and abutments. In conformance with approved materials and Manufacturer’s recommendations. Section 532 and Special Provisions for Section 532	<b>\$5.00</b>	<b>\$6.10</b>	<b>\$17.00</b>
218	GAL.	<b>Epoxy Injection – District 3</b> , Epoxy injection of cracks in concrete bridge members, backwalls, etc. Section 534	<b>\$2,477.00</b>	<b>\$3,205.00</b>	<b>\$7,905.00</b>
219	L.F.	<b>Concrete Barrier Railing Replacement – District 3</b> , New or removal of existing railing, forming and replacement with cast-in-place concrete and rebar barrier railing. Section 514, Special Provision for Section 606, and Standard Drawings for Section 514 and Section 606	<b>\$363.00</b>	<b>\$287.50</b>	<b>\$755.00</b>
220	L.F.	<b>Metal Railing (Bridge Railing) – District 3</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range 0-100 linear feet)	<b>\$160.00</b>	<b>\$128.70</b>	<b>\$232.00</b>
221	L.F.	<b>Metal Railing (Bridge Railing) – District 3</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range over 100 linear feet)	<b>\$134.00</b>	<b>\$120.55</b>	<b>\$192.00</b>
222	S.F.	<b>Surface Preparation And Recoating Of Concrete Surfaces – District 3</b> , Section 511	<b>\$15.00</b>	<b>\$8.55</b>	<b>\$14.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
223	S.F.	<b>Surface Preparation And Recoating of Steel Structural Components – District 3</b> , Prepare surface per Section 546.3.1.2 Power-Tool Cleaning to Bare Metal (SSPC-SP11) and recoat steel structural components. Section 546 and Section 547 and Special Provisions for Section 546	<b>\$57.00</b>	<b>\$57.00</b>	<b>\$55.50</b>
224	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Initial Layer) – District 3</b> , Application of initial Fiber Reinforced Polymer (FRP) layer per contract. Section 533 and Special Provisions for Section 533-A	<b>\$94.00</b>	<b>\$92.25</b>	<b>\$51.00</b>
225	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Additional Layers) – District 3</b> , Application of additional Fiber Reinforced Polymer (FRP) layers per contract. Section 533 and Special Provisions for Section 533-A	<b>\$75.00</b>	<b>\$54.10</b>	<b>\$26.00</b>
226	S.F.	<b>FRP Finish Coat (Final) – District 3</b> , Application of Fiber Reinforced Polymer (FRP) finish coat per contract. Section 533 and Special Provisions for Section 533-A	<b>\$53.00</b>	<b>\$16.15</b>	<b>\$5.00</b>
227	L.F.	<b>12 Inch - 48 Inch CMP Run Down – District 3</b> , Install 12 inch to 48 inch diameter corrugated metal pipe on slopes. Section 206, Section 570 and Section 605, and Standard Drawings for Section 206 and Section 570	<b>\$114.00</b>	<b>\$85.00</b>	<b>\$264.00</b>
228	C.Y.	<b>Rip Rap or Gabions – District 3</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range 0-10 Cubic Yards)	<b>\$891.00</b>	<b>\$416.35</b>	<b>\$691.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
229	C.Y.	<b>Rip Rap or Gabions – District 3</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range over 10 Cubic Yards)	<b>\$869.00</b>	<b>\$248.85</b>	<b>\$442.00</b>
230	C.Y.	<b>Erosion Repair – District 3</b> , Grading and backfilling to return eroded slopes to their original design contours (hauling of material is not included). Section 207 and Special Provision for Section 207	<b>\$57.00</b>	<b>\$64.50</b>	<b>\$131.00</b>
231	C.Y.	<b>Placement Of Flowable Fill – District 3</b> , This work consists of providing and placing flowable fill. Section 516	<b>\$406.00</b>	<b>\$90.00</b>	<b>\$412.00</b>
232	S.F.	<b>Slope Paving – District 3</b> , Concrete forming and placement of new concrete and reinforcement for concrete paved slopes. Section 515, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$20.00</b>	<b>\$16.95</b>	<b>\$21.00</b>
233	S.F.	<b>Slope Paving Repair – District 3</b> , Removal and replacement of concrete at existing concrete paved slopes. Section 515 and Section 533, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$39.00</b>	<b>\$32.85</b>	<b>\$29.00</b>
234	L.F.	<b>Temporary Concrete Wall Barrier Placement – District 3</b> , Transport, place and return precast concrete wall barrier as directed by the Project Manager. Special Provision for Section 606 and Standard Drawings 606-20	<b>\$30.00</b>	<b>\$14.50</b>	<b>\$123.00</b>
235	L.F.	<b>Temporary Concrete Wall Barrier Reset – District 3</b> , Reset existing precast concrete wall barrier. Section 606 (Metal and Concrete Wall Barrier)	<b>\$9.00</b>	<b>\$12.40</b>	<b>\$23.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
236	HRS.	<b>Traffic Control Work Hours Per Lane (Urban Areas) – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$259.00</b>	<b>\$149.50</b>	<b>\$790.00</b>
237	DAYS	<b>Traffic Control Work Days Per Lane (Urban Areas) – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,068.00</b>	<b>\$1,495.00</b>	<b>\$5,012.00</b>
238	HRS.	<b>Traffic Control Work Hours Per Lane (Rural Areas) – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$259.00</b>	<b>\$89.70</b>	<b>\$1,099.00</b>
239	DAYS	<b>Traffic Control Work Days Per Lane (Rural Areas) – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,068.00</b>	<b>\$897.00</b>	<b>\$5,011.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
240	HRS.	<b>Traffic Control Work Hours Beyond the Shoulder – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$202.00</b>	<b>\$89.70</b>	<b>\$1,214.00</b>
241	DAYS	<b>Traffic Control Work Days Beyond the Shoulder – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,693.00</b>	<b>\$897.00</b>	<b>\$4,202.00</b>
242	HRS.	<b>Traffic Control Shoulder Closure Hours on Freeway – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$202.00</b>	<b>\$72.60</b>	<b>\$783.00</b>
243	DAYS	<b>Traffic Control Shoulder Closure Days on Freeway – District 3</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,693.00</b>	<b>\$726.00</b>	<b>\$4,279.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
244	Barrel	<b>Crash Cushion – District 3</b> , Furnish, install, reset, remove and maintain sand barrel crash cushion. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and 702-C, and Standard Drawings 702-01	<b>\$2,808.00</b>	<b>\$1,445.00</b>	<b>\$1,375.00</b>
245	HRS.	<b>Flagging Traffic Control (Urban Areas) – District 3</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in urban areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$63.00</b>	<b>\$67.35</b>	<b>\$60.00</b>
246	HRS.	<b>Flagging Traffic Control (Rural Areas) – District 3</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in rural areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$63.00</b>	<b>\$67.35</b>	<b>\$60.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
247	HRS.	<b>Variable Message Board – District 3,</b> Provide, place and maintain each variable message board required by the District during traffic control operations. Section 702 and Special Provisions for Section 702-C	<b>\$36.00</b>	<b>\$25.00</b>	<b>\$39.00</b>
248	HRS.	<b>Signalized Traffic Control – District 3,</b> Provide all traffic control devices necessary for signalization of 2-way traffic. Implement the signalization set up, monitor and maintain the setup. Section 701, Section 702 and Section 705 and Special Provisions for Section 702-C	<b>\$135.00</b>	<b>\$35.00</b>	<b>\$1,703.00</b>
249	L.F.	<b>Permanent Striping – District 3,</b> Provide and place pavement striping using paint and traffic beads in work zones. Section 704	<b>\$0.70</b>	<b>\$11.55</b>	<b>\$14.00</b>
250	L.F.	<b>Marking Tape – District 3,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704	<b>\$4.20</b>	<b>\$3.10</b>	<b>\$16.00</b>
251	EACH	<b>Reflectorized Pavement Tabs – District 3,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704, Special Provisions for Section 704-A, and Standard Drawings for Section 704	<b>\$5.50</b>	<b>\$8.30</b>	<b>\$39.00</b>
252	L.F.	<b>Eradication of Pavement Markings – District 3,</b> Removal of existing pavement markings. Section 721	<b>\$1.40</b>	<b>\$36.45</b>	<b>\$42.00</b>
253	S.F.	<b>Panel Signs – District 3,</b> Installation of miscellaneous panel signs, bases and posts. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 701 and Standard Drawings for Section 701	<b>\$118.00</b>	<b>\$35.00</b>	<b>\$116.00</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
254	MILE	<b>Mobilization – District 3</b> , No payment will be made for moves of less than twenty-five (25) miles. Mileage will be measured and paid from the Contractor’s designated base station to the job site or when applicable mileage will be measured from an existing job site to the new job site and payment will be for whichever distance is less. No payment will be made for the Contractor’s return to their designated base station.	<b>\$53.00</b>	<b>\$57.60</b>	<b>\$25.00</b>
255	EACH	<b>Discount / Payment for Invoice Items – District 3</b> , Amount of discount allowed on itemized materials. Invoice for accepted work. Approved invoice for accepted work approved and in place.	<b>0 Percent</b>	<b>0 Percent</b>	<b>0 Percent</b>
256	S.Y.	<b>Partial Depth Deck Patching – District 4</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 256. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$1,263.00</b>	<b>\$565.00</b>	<b>No Bid</b>
257	S.Y.	<b>Partial Depth Deck Patching – District 4</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 257. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,138.00</b>	<b>\$519.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
258	S.Y.	<b>Partial Depth Deck Patching – District 4</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 258. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,046.00</b>	<b>\$517.00</b>	<b>No Bid</b>
259	S.Y.	<b>Full Depth Deck Repair or Replacement – District 4</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 259. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$2,244.00</b>	<b>\$750.00</b>	<b>No Bid</b>
260	S.Y.	<b>Full Depth Deck Repair or Replacement – District 4</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 260. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,917.00</b>	<b>\$655.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
261	S.Y.	<b>Full Depth Deck Repair or Replacement – District 4</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 261. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,684.00</b>	<b>\$655.00</b>	<b>No Bid</b>
262	EACH	<b>Embedded Galvanic Anodes – District 4</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 256, 257 or 258. The actual full depth deck patches will be paid under Item Nos. 259, 260 or 261. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range 0-25 Anodes)	<b>\$19.00</b>	<b>\$15.95</b>	<b>No Bid</b>
263	EACH	<b>Embedded Galvanic Anodes – District 4</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 256, 257 or 258. The actual full depth deck patches will be paid under Item Nos. 259, 260 or 261. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range over 25 Anodes)	<b>\$16.00</b>	<b>\$12.85</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
264	S.Y.	<b>Diamond Grinding of PCCP – District 4,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$321.00</b>	<b>\$230.00</b>	<b>No Bid</b>
265	S.Y.	<b>Diamond Grinding of PCCP – District 4,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$112.00</b>	<b>No Bid</b>
266	S.Y.	<b>Diamond Grinding of PCCP – District 4,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$40.85</b>	<b>No Bid</b>
267	S.Y.	<b>Diamond Grooving of PCCP – District 4,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$65.55</b>	<b>No Bid</b>
268	S.Y.	<b>Diamond Grooving of PCCP – District 4,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$40.00</b>	<b>No Bid</b>
269	S.Y.	<b>Diamond Grooving of PCCP – District 4,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$23.45</b>	<b>No Bid</b>
270	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 4,</b> Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$145.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
271	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 4</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$75.25</b>	<b>No Bid</b>
272	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 4</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$35.65</b>	<b>No Bid</b>
273	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 4</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$66.00</b>	<b>\$22.95</b>	<b>No Bid</b>
274	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 4</b> , Section 535 (Range over 499 Square Yards)	<b>\$43.00</b>	<b>\$18.40</b>	<b>No Bid</b>
275	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 4</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$66.00</b>	<b>\$22.95</b>	<b>No Bid</b>
276	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 4</b> , Section 535 (Range over 499 Square Yards)	<b>\$43.00</b>	<b>\$18.40</b>	<b>No Bid</b>
277	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 4</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$211.00</b>	<b>\$22.95</b>	<b>No Bid</b>
278	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 4</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$139.00</b>	<b>\$18.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
279	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 4</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$273.00</b>	<b>\$24.85</b>	<b>No Bid</b>
280	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 4</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$187.00</b>	<b>\$20.35</b>	<b>No Bid</b>
281	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 4</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$211.00</b>	<b>\$22.95</b>	<b>No Bid</b>
282	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 4</b> , Section 536 and Appendix "C" (Range over 499 Square Yards)	<b>\$148.00</b>	<b>\$18.40</b>	<b>No Bid</b>
283	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 4</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$273.00</b>	<b>\$24.85</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
284	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 4</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$187.00</b>	<b>\$20.35</b>	<b>No Bid</b>
285	S.Y.	<b>Testing Polymer Overlay for Surface Preparation &amp; Adhesion – District 4</b> , Per the requirements and Appendix "D" of this Agreement	<b>\$4,673.00</b>	<b>\$3,000.00</b>	<b>No Bid</b>
286	EACH	<b>Bearing Modification – District 4</b> , Reset existing bearing units or install supplemental or replacement units (includes all jacking) as directed by the Engineer. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Section 560	<b>\$7,174.00</b>	<b>\$2,465.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
287		<b>Temporary Shoring (Abutments) – District 4</b> , Temporarily support superstructure elements (each beam end) at abutments, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,692.00</b>	<b>\$3,875.00</b>	<b>No Bid</b>
288	EACH	<b>Temporary Shoring (Piers) – District 4</b> , Temporarily support superstructure elements (each beam end) at piers, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT project manager 30 calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,692.00</b>	<b>\$4,685.00</b>	<b>No Bid</b>
289	HOUR	<b>Welder &amp; Welder Assistant – District 4</b> , Certified welder and assistant for welding of various components. Section 541.3.6.4.1	<b>\$324.00</b>	<b>\$295.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
290	L.F.	<b>Strip Seal Joint Full Depth Replacement at Abutments – District 4</b> , Removal of existing joint and concrete deck, abutment backwall or sleeper footer and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 290. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$259.25</b>	<b>No Bid</b>
291	L.F.	<b>Strip Seal Joint Full Depth Replacement at Piers – District 4</b> , Removal of existing joint and concrete deck and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 291. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$290.25</b>	<b>No Bid</b>
292	L.F.	<b>Strip Seal Joint Partial Depth Replacement – District 4</b> , Removal of existing joint/concrete deck (or abutment backwall) and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$477.00</b>	<b>\$165.50</b>	<b>No Bid</b>
293	L.F.	<b>Joint Seals – District 4</b> , Removal and replacement of existing joint seals. Section 561, Section 562 and Standard Drawings 562-01	<b>\$124.00</b>	<b>\$53.75</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
294	L.F.	<b>Pre-Molded Joint Seal – District 4</b> , Removal of existing joint seals and installation of new joint material. Section 564 and Section 565, and Standard Drawing 564-01	<b>\$124.00</b>	<b>\$58.00</b>	<b>No Bid</b>
295	L.F.	<b>Pre-Molded Joint Seal with Concrete Removal – District 4</b> , Removal of existing joint, existing concrete removal, installation of rapid-set concrete headers and installation of joint components including polymer bridge seals Type "A." Section 512, Section 533, Section 562 and Section 564, Special Provision for Section 512, and Standard Drawing 564-01	<b>\$547.00</b>	<b>\$82.70</b>	<b>No Bid</b>
296	S.Y.	<b>Concrete Repair – District 4</b> , May include Concrete Box Culvert Repair. Removal of unsound concrete and rebar, forming and placement of new concrete or rapid-set concrete and new/supplemental rebar (where necessary). Section 511, Section 512, Section 515 and Section 533, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 515 and Section 533-01	<b>\$1,422.00</b>	<b>\$640.00</b>	<b>No Bid</b>
297	C.Y.	<b>Substructure Replacement – District 4</b> , Removal of existing concrete, rebar, etc., straightening of rebar and existing piles etc. to be retained in the new concrete. Includes the forming and placement of new concrete or rapid set concrete for pier caps, columns and abutments. New reinforcement is to be paid under Bid Item No. 301 - Reinforcing Bars. Section 510, Section 533 and Special Provisions for Section 511	<b>\$5,097.00</b>	<b>\$3,055.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
298	C.Y.	<b>Backwall Replacement – District 4</b> , Removal of existing joint/concrete forming and replacement with new joint/rapid set concrete or approved concrete. The joint is to be replaced under Bid Item Nos. 290, 292, 293, 294 or 295. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 298. Section 510, Section 511 and Section 533 and Special Provisions for Section 511	<b>\$5,053.00</b>	<b>\$4,245.00</b>	<b>No Bid</b>
299	C.Y.	<b>Concrete Box Culvert Extension – District 4</b> , Forming and placement of new concrete for extension of existing box culverts. Section 511 and Section 512, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 511	<b>\$4,015.00</b>	<b>\$2,595.00</b>	<b>No Bid</b>
300	S.F.	<b>Concrete Slab on Grade – District 4</b> , Removal of concrete, forming and placement of concrete and reinforcement for sidewalks and other small miscellaneous slabs. Section 511 and Section 601, Special Provisions for Section 511, and Standard Drawings for Section 511	<b>\$194.00</b>	<b>\$56.70</b>	<b>No Bid</b>
301	LBS.	<b>Reinforcing Bars – District 4</b> , Placement of rebar for major repairs and/or replacement of existing concrete structures. If the amount of reinforcement that is to be replaced is under 4,000 lbs. it shall be paid under its respective concrete replacement item. Section 540 and Special Provisions for Section 540 (Range over 4,000 lbs.)	<b>\$4.00</b>	<b>\$5.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
302	S.Y.	<b>Penetrating Water Repellent Treatment – District 4</b> , Application of a penetrating water repellent treatment to concrete surfaces to include girder ends, pier caps and abutments. In conformance with approved materials and Manufacturer’s recommendations. Section 532 and Special Provisions for Section 532	<b>\$6.00</b>	<b>\$6.10</b>	<b>No Bid</b>
303	GAL.	<b>Epoxy Injection – District 4</b> , Epoxy injection of cracks in concrete bridge members, backwalls, etc. Section 534	<b>\$3,011.00</b>	<b>\$3,205.00</b>	<b>No Bid</b>
304	L.F.	<b>Concrete Barrier Railing Replacement – District 4</b> , New or removal of existing railing, forming and replacement with cast-in-place concrete and rebar barrier railing. Section 514, Special Provision for Section 606, and Standard Drawings for Section 514 and Section 606	<b>\$413.00</b>	<b>\$287.50</b>	<b>No Bid</b>
305	L.F.	<b>Metal Railing (Bridge Railing) – District 4</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range 0-100 linear feet)	<b>\$192.00</b>	<b>\$128.70</b>	<b>No Bid</b>
306	L.F.	<b>Metal Railing (Bridge Railing) – District 4</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range over 100 linear feet)	<b>\$160.00</b>	<b>\$120.55</b>	<b>No Bid</b>
307	S.F.	<b>Surface Preparation And Recoating Of Concrete Surfaces – District 4</b> , Section 511	<b>\$16.00</b>	<b>\$8.55</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
308	S.F.	<b>Surface Preparation And Recoating of Steel Structural Components – District 4</b> , Prepare surface per Section 546.3.1.2 Power-Tool Cleaning to Bare Metal (SSPC-SP11) and recoat steel structural components. Section 546 and Section 547 and Special Provisions for Section 546	<b>\$59.00</b>	<b>\$57.00</b>	<b>No Bid</b>
309	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Initial Layer) – District 4</b> , Application of initial Fiber Reinforced Polymer (FRP) layer per contract. Section 533 and Special Provisions for Section 533-A	<b>\$112.00</b>	<b>\$92.25</b>	<b>No Bid</b>
310	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Additional Layers) – District 4</b> , Application of additional Fiber Reinforced Polymer (FRP) layers per contract. Section 533 and Special Provisions for Section 533-A	<b>\$90.00</b>	<b>\$54.10</b>	<b>No Bid</b>
311	S.F.	<b>FRP Finish Coat (Final) – District 4</b> , Application of Fiber Reinforced Polymer (FRP) finish coat per contract. Section 533 and Special Provisions for Section 533-A	<b>\$64.00</b>	<b>\$16.15</b>	<b>No Bid</b>
312	L.F.	<b>12 Inch - 48 Inch CMP Run Down – District 4</b> , Install 12 inch to 48 inch diameter corrugated metal pipe on slopes. Section 206, Section 570 and Section 605, and Standard Drawings for Section 206 and Section 570	<b>\$133.00</b>	<b>\$85.00</b>	<b>No Bid</b>
313	C.Y.	<b>Rip Rap or Gabions – District 4</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range 0-10 Cubic Yards)	<b>\$1,074.00</b>	<b>\$416.35</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
314	C.Y.	<b>Rip Rap or Gabions – District 4</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range over 10 Cubic Yards)	<b>\$1,048.00</b>	<b>\$248.85</b>	<b>No Bid</b>
315	C.Y.	<b>Erosion Repair – District 4</b> , Grading and backfilling to return eroded slopes to their original design contours (hauling of material is not included). Section 207 and Special Provision for Section 207	<b>\$67.00</b>	<b>\$64.50</b>	<b>No Bid</b>
316	C.Y.	<b>Placement Of Flowable Fill – District 4</b> , This work consists of providing and placing flowable fill. Section 516	<b>\$441.00</b>	<b>\$90.00</b>	<b>No Bid</b>
317	S.F.	<b>Slope Paving – District 4</b> , Concrete forming and placement of new concrete and reinforcement for concrete paved slopes. Section 515, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$23.00</b>	<b>\$16.95</b>	<b>No Bid</b>
318	S.F.	<b>Slope Paving Repair – District 4</b> , Removal and replacement of concrete at existing concrete paved slopes. Section 515 and Section 533, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$44.00</b>	<b>\$32.85</b>	<b>No Bid</b>
319	L.F.	<b>Temporary Concrete Wall Barrier Placement – District 4</b> , Transport, place and return precast concrete wall barrier as directed by the Project Manager. Special Provision for Section 606 and Standard Drawings 606-20	<b>\$34.00</b>	<b>\$14.50</b>	<b>No Bid</b>
320	L.F.	<b>Temporary Concrete Wall Barrier Reset – District 4</b> , Reset existing precast concrete wall barrier. Section 606 (Metal and Concrete Wall Barrier)	<b>\$10.00</b>	<b>\$12.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
321	HRS.	<b>Traffic Control Work Hours Per Lane (Urban Areas) – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$149.50</b>	<b>No Bid</b>
322	DAYS	<b>Traffic Control Work Days Per Lane (Urban Areas) – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,431.00</b>	<b>\$1,495.00</b>	<b>No Bid</b>
323	HRS.	<b>Traffic Control Work Hours Per Lane (Rural Areas) – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$89.70</b>	<b>No Bid</b>
324	DAYS	<b>Traffic Control Work Days Per Lane (Rural Areas) – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,432.00</b>	<b>\$897.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
325	HRS.	<b>Traffic Control Work Hours Beyond the Shoulder – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$89.70</b>	<b>No Bid</b>
326	DAYS	<b>Traffic Control Work Days Beyond the Shoulder – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,985.00</b>	<b>\$897.00</b>	<b>No Bid</b>
327	HRS.	<b>Traffic Control Shoulder Closure Hours on Freeway – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$72.60</b>	<b>No Bid</b>
328	DAYS	<b>Traffic Control Shoulder Closure Days on Freeway – District 4</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,987.00</b>	<b>\$726.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
329	Barrel	<b>Crash Cushion – District 4</b> , Furnish, install, reset, remove and maintain sand barrel crash cushion. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and 702-C, and Standard Drawings 702-01	<b>\$3,167.00</b>	<b>\$1,445.00</b>	<b>No Bid</b>
330	HRS.	<b>Flagging Traffic Control (Urban Areas) – District 4</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in urban areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>No Bid</b>
331	HRS.	<b>Flagging Traffic Control (Rural Areas) – District 4</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in rural areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
332	HRS.	<b>Variable Message Board – District 4,</b> Provide, place and maintain each variable message board required by the District during traffic control operations. Section 702 and Special Provisions for Section 702-C	<b>\$41.00</b>	<b>\$25.00</b>	<b>No Bid</b>
333	HRS.	<b>Signalized Traffic Control – District 4,</b> Provide all traffic control devices necessary for signalization of 2-way traffic. Implement the signalization set up, monitor and maintain the setup. Section 701, Section 702 and Section 705 and Special Provisions for Section 702-C	<b>\$145.00</b>	<b>\$35.00</b>	<b>No Bid</b>
334	L.F.	<b>Permanent Striping – District 4,</b> Provide and place pavement striping using paint and traffic beads in work zones. Section 704	<b>\$0.70</b>	<b>\$11.55</b>	<b>No Bid</b>
335	L.F.	<b>Marking Tape – District 4,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704	<b>\$4.30</b>	<b>\$3.10</b>	<b>No Bid</b>
336	EACH	<b>Reflectorized Pavement Tabs – District 4,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704, Special Provisions for Section 704-A, and Standard Drawings for Section 704	<b>\$5.80</b>	<b>\$8.30</b>	<b>No Bid</b>
337	L.F.	<b>Eradication of Pavement Markings – District 4,</b> Removal of existing pavement markings. Section 721	<b>\$1.40</b>	<b>\$36.45</b>	<b>No Bid</b>
338	S.F.	<b>Panel Signs – District 4,</b> Installation of miscellaneous panel signs, bases and posts. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 701 and Standard Drawings for Section 701	<b>\$122.00</b>	<b>\$35.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
339	MILE	<b>Mobilization – District 4</b> , No payment will be made for moves of less than twenty-five (25) miles. Mileage will be measured and paid from the Contractor’s designated base station to the job site or when applicable mileage will be measured from an existing job site to the new job site and payment will be for whichever distance is less. No payment will be made for the Contractor’s return to their designated base station.	<b>\$58.00</b>	<b>\$57.60</b>	<b>No Bid</b>
340	EACH	<b>Discount / Payment for Invoice Items – District 4</b> , Amount of discount allowed on itemized materials. Invoice for accepted work. Approved invoice for accepted work approved and in place.	<b>0 Percent</b>	<b>0 Percent</b>	<b>No Bid</b>
341	S.Y.	<b>Partial Depth Deck Patching – District 5</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 341. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$1,263.00</b>	<b>\$565.00</b>	<b>No Bid</b>
342	S.Y.	<b>Partial Depth Deck Patching – District 5</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 342. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,138.00</b>	<b>\$519.00</b>	<b>No Bid</b>

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343	S.Y.	<b>Partial Depth Deck Patching – District 5,</b> Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 343. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,046.00</b>	<b>\$517.00</b>	<b>No Bid</b>
344	S.Y.	<b>Full Depth Deck Repair or Replacement – District 5,</b> Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 344. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$2,244.00</b>	<b>\$750.00</b>	<b>No Bid</b>
345	S.Y.	<b>Full Depth Deck Repair or Replacement – District 5,</b> Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 345. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,917.00</b>	<b>\$655.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
346	S.Y.	<b>Full Depth Deck Repair or Replacement – District 5</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 346. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,684.00</b>	<b>\$655.00</b>	<b>No Bid</b>
347	EACH	<b>Embedded Galvanic Anodes – District 5</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 341, 342 or 343. The actual full depth deck patches will be paid under Item Nos. 344, 345 or 346. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range 0-25 Anodes)	<b>\$19.00</b>	<b>\$15.95</b>	<b>No Bid</b>
348	EACH	<b>Embedded Galvanic Anodes – District 5</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 341, 342 or 343. The actual full depth deck patches will be paid under Item Nos. 344, 345 or 346. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range over 25 Anodes)	<b>\$16.00</b>	<b>\$12.85</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
349	S.Y.	<b>Diamond Grinding of PCCP – District 5,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$321.00</b>	<b>\$230.00</b>	<b>No Bid</b>
350	S.Y.	<b>Diamond Grinding of PCCP – District 5,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$112.00</b>	<b>No Bid</b>
351	S.Y.	<b>Diamond Grinding of PCCP – District 5,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$40.85</b>	<b>No Bid</b>
352	S.Y.	<b>Diamond Grooving of PCCP – District 5,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$65.55</b>	<b>No Bid</b>
353	S.Y.	<b>Diamond Grooving of PCCP – District 5,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$40.00</b>	<b>No Bid</b>
354	S.Y.	<b>Diamond Grooving of PCCP – District 5,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$23.45</b>	<b>No Bid</b>
355	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 5,</b> Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$145.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
356	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 5</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$75.25</b>	<b>No Bid</b>
357	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 5</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$35.65</b>	<b>No Bid</b>
358	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 5</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$66.00</b>	<b>\$22.95</b>	<b>No Bid</b>
359	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 5</b> , Section 535 (Range over 499 Square Yards)	<b>\$43.00</b>	<b>\$18.40</b>	<b>No Bid</b>
360	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 5</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$66.00</b>	<b>\$22.95</b>	<b>No Bid</b>
361	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 5</b> , Section 535 (Range over 499 Square Yards)	<b>\$43.00</b>	<b>\$18.40</b>	<b>No Bid</b>
362	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 5</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$211.00</b>	<b>\$22.95</b>	<b>No Bid</b>
363	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 5</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$139.00</b>	<b>\$18.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
364	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 5</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$273.00</b>	<b>\$24.85</b>	<b>No Bid</b>
365	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 5</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$187.00</b>	<b>\$20.35</b>	<b>No Bid</b>
366	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 5</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$211.00</b>	<b>\$22.95</b>	<b>No Bid</b>
367	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 5</b> , Section 536 and Appendix "C" (Range over 499 Square Yards)	<b>\$148.00</b>	<b>\$18.40</b>	<b>No Bid</b>
368	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 5</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$273.00</b>	<b>\$24.85</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
369	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 5</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$187.00</b>	<b>\$20.35</b>	<b>No Bid</b>
370	S.Y.	<b>Testing Polymer Overlay for Surface Preparation &amp; Adhesion – District 5</b> , Per the requirements and Appendix "D" of this Agreement	<b>\$4,673.00</b>	<b>\$3,000.00</b>	<b>No Bid</b>
371	EACH	<b>Bearing Modification – District 5</b> , Reset existing bearing units or install supplemental or replacement units (includes all jacking) as directed by the Engineer. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Section 560	<b>\$7,174.00</b>	<b>\$2,465.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
372	EACH	<b>Temporary Shoring (Abutments) – District 5,</b> Temporarily support superstructure elements (each beam end) at abutments, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,692.00</b>	<b>\$3,875.00</b>	<b>No Bid</b>
373	EACH	<b>Temporary Shoring (Piers) – District 5,</b> Temporarily support superstructure elements (each beam end) at piers, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT project manager 30 calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,692.00</b>	<b>\$4,685.00</b>	<b>No Bid</b>
374	HOUR	<b>Welder &amp; Welder Assistant – District 5,</b> Certified welder and assistant for welding of various components. Section 541.3.6.4.1	<b>\$324.00</b>	<b>\$295.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
375	L.F.	<b>Strip Seal Joint Full Depth Replacement at Abutments – District 5</b> , Removal of existing joint and concrete deck, abutment backwall or sleeper footer and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 375. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$259.25</b>	<b>No Bid</b>
376	L.F.	<b>Strip Seal Joint Full Depth Replacement at Piers – District 5</b> , Removal of existing joint and concrete deck and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 376. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$290.25</b>	<b>No Bid</b>
377	L.F.	<b>Strip Seal Joint Partial Depth Replacement – District 5</b> , Removal of existing joint/concrete deck (or abutment backwall) and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$477.00</b>	<b>\$165.50</b>	<b>No Bid</b>
378	L.F.	<b>Joint Seals – District 5</b> , Removal and replacement of existing joint seals. Section 561, Section 562 and Standard Drawings 562-01	<b>\$124.00</b>	<b>\$53.75</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
379	L.F.	<b>Pre-Molded Joint Seal – District 5</b> , Removal of existing joint seals and installation of new joint material. Section 564 and Section 565, and Standard Drawing 564-01	<b>\$124.00</b>	<b>\$58.00</b>	<b>No Bid</b>
380	L.F.	<b>Pre-Molded Joint Seal with Concrete Removal – District 5</b> , Removal of existing joint, existing concrete removal, installation of rapid-set concrete headers and installation of joint components including polymer bridge seals Type "A." Section 512, Section 533, Section 562 and Section 564, Special Provision for Section 512, and Standard Drawing 564-01	<b>\$547.00</b>	<b>\$82.70</b>	<b>No Bid</b>
381	S.Y.	<b>Concrete Repair – District 5</b> , May include Concrete Box Culvert Repair. Removal of unsound concrete and rebar, forming and placement of new concrete or rapid-set concrete and new/supplemental rebar (where necessary). Section 511, Section 512, Section 515 and Section 533, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 515 and Section 533-01	<b>\$1,422.00</b>	<b>\$640.00</b>	<b>No Bid</b>
382	C.Y.	<b>Substructure Replacement – District 5</b> , Removal of existing concrete, rebar, etc., straightening of rebar and existing piles etc. to be retained in the new concrete. Includes the forming and placement of new concrete or rapid set concrete for pier caps, columns and abutments. New reinforcement is to be paid under Bid Item No. 386 - Reinforcing Bars. Section 510, Section 533 and Special Provisions for Section 511	<b>\$5,097.00</b>	<b>\$3,055.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
383	C.Y.	<b>Backwall Replacement – District 5</b> , Removal of existing joint/concrete forming and replacement with new joint/rapid set concrete or approved concrete. The joint is to be replaced under Bid Item Nos. 375, 377, 378, 379 or 380. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 383. Section 510, Section 511 and Section 533 and Special Provisions for Section 511	<b>\$5,053.00</b>	<b>\$4,245.00</b>	<b>No Bid</b>
384	C.Y.	<b>Concrete Box Culvert Extension – District 5</b> , Forming and placement of new concrete for extension of existing box culverts. Section 511 and Section 512, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 511	<b>\$4,015.00</b>	<b>\$2,595.00</b>	<b>No Bid</b>
385	S.F.	<b>Concrete Slab on Grade – District 5</b> , Removal of concrete, forming and placement of concrete and reinforcement for sidewalks and other small miscellaneous slabs. Section 511 and Section 601, Special Provisions for Section 511, and Standard Drawings for Section 511	<b>\$194.00</b>	<b>\$56.70</b>	<b>No Bid</b>
386	LBS.	<b>Reinforcing Bars – District 5</b> , Placement of rebar for major repairs and/or replacement of existing concrete structures. If the amount of reinforcement that is to be replaced is under 4,000 lbs. it shall be paid under its respective concrete replacement item. Section 540 and Special Provisions for Section 540 (Range over 4,000 lbs.)	<b>\$4.00</b>	<b>\$5.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
387	S.Y.	<b>Penetrating Water Repellent Treatment – District 5</b> , Application of a penetrating water repellent treatment to concrete surfaces to include girder ends, pier caps and abutments. In conformance with approved materials and Manufacturer’s recommendations. Section 532 and Special Provisions for Section 532	<b>\$6.00</b>	<b>\$6.10</b>	<b>No Bid</b>
388	GAL.	<b>Epoxy Injection – District 5</b> , Epoxy injection of cracks in concrete bridge members, backwalls, etc. Section 534	<b>\$3,011.00</b>	<b>\$3,205.00</b>	<b>No Bid</b>
389	L.F.	<b>Concrete Barrier Railing Replacement – District 5</b> , New or removal of existing railing, forming and replacement with cast-in-place concrete and rebar barrier railing. Section 514, Special Provision for Section 606, and Standard Drawings for Section 514 and Section 606	<b>\$413.00</b>	<b>\$287.50</b>	<b>No Bid</b>
390	L.F.	<b>Metal Railing (Bridge Railing) – District 5</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range 0-100 linear feet)	<b>\$192.00</b>	<b>\$128.70</b>	<b>No Bid</b>
391	L.F.	<b>Metal Railing (Bridge Railing) – District 5</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range over 100 linear feet)	<b>\$160.00</b>	<b>\$120.55</b>	<b>No Bid</b>
392	S.F.	<b>Surface Preparation And Recoating Of Concrete Surfaces – District 5</b> , Section 511	<b>\$16.00</b>	<b>\$8.55</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
393	S.F.	<b>Surface Preparation And Recoating of Steel Structural Components – District 5</b> , Prepare surface per Section 546.3.1.2 Power-Tool Cleaning to Bare Metal (SSPC-SP11) and recoat steel structural components. Section 546 and Section 547 and Special Provisions for Section 546	<b>\$59.00</b>	<b>\$57.00</b>	<b>No Bid</b>
394	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Initial Layer) – District 5</b> , Application of initial Fiber Reinforced Polymer (FRP) layer per contract. Section 533 and Special Provisions for Section 533-A	<b>\$112.00</b>	<b>\$92.25</b>	<b>No Bid</b>
395	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Additional Layers) – District 5</b> , Application of additional Fiber Reinforced Polymer (FRP) layers per contract. Section 533 and Special Provisions for Section 533-A	<b>\$90.00</b>	<b>\$54.10</b>	<b>No Bid</b>
396	S.F.	<b>FRP Finish Coat (Final) – District 5</b> , Application of Fiber Reinforced Polymer (FRP) finish coat per contract. Section 533 and Special Provisions for Section 533-A	<b>\$64.00</b>	<b>\$16.15</b>	<b>No Bid</b>
397	L.F.	<b>12 Inch - 48 Inch CMP Run Down – District 5</b> , Install 12 inch to 48 inch diameter corrugated metal pipe on slopes. Section 206, Section 570 and Section 605, and Standard Drawings for Section 206 and Section 570	<b>\$133.00</b>	<b>\$85.00</b>	<b>No Bid</b>
398	C.Y.	<b>Rip Rap or Gabions – District 5</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range 0-10 Cubic Yards)	<b>\$1,074.00</b>	<b>\$416.35</b>	<b>No Bid</b>

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399	C.Y.	<b>Rip Rap or Gabions – District 5</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range over 10 Cubic Yards)	<b>\$1,048.00</b>	<b>\$248.85</b>	<b>No Bid</b>
400	C.Y.	<b>Erosion Repair – District 5</b> , Grading and backfilling to return eroded slopes to their original design contours (hauling of material is not included). Section 207 and Special Provision for Section 207	<b>\$67.00</b>	<b>\$64.50</b>	<b>No Bid</b>
401	C.Y.	<b>Placement Of Flowable Fill – District 5</b> , This work consists of providing and placing flowable fill. Section 516	<b>\$441.00</b>	<b>\$90.00</b>	<b>No Bid</b>
402	S.F.	<b>Slope Paving – District 5</b> , Concrete forming and placement of new concrete and reinforcement for concrete paved slopes. Section 515, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$23.00</b>	<b>\$16.95</b>	<b>No Bid</b>
403	S.F.	<b>Slope Paving Repair – District 5</b> , Removal and replacement of concrete at existing concrete paved slopes. Section 515 and Section 533, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$44.00</b>	<b>\$32.85</b>	<b>No Bid</b>
404	L.F.	<b>Temporary Concrete Wall Barrier Placement – District 5</b> , Transport, place and return precast concrete wall barrier as directed by the Project Manager. Special Provision for Section 606 and Standard Drawings 606-20	<b>\$34.00</b>	<b>\$14.50</b>	<b>No Bid</b>
405	L.F.	<b>Temporary Concrete Wall Barrier Reset – District 5</b> , Reset existing precast concrete wall barrier. Section 606 (Metal and Concrete Wall Barrier)	<b>\$10.00</b>	<b>\$12.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
406	HRS.	<b>Traffic Control Work Hours Per Lane (Urban Areas) – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$149.50</b>	<b>No Bid</b>
407	DAYS	<b>Traffic Control Work Days Per Lane (Urban Areas) – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,431.00</b>	<b>\$1,495.00</b>	<b>No Bid</b>
408	HRS.	<b>Traffic Control Work Hours Per Lane (Rural Areas) – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$89.70</b>	<b>No Bid</b>
409	DAYS	<b>Traffic Control Work Days Per Lane (Rural Areas) – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,432.00</b>	<b>\$897.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
410	HRS.	<b>Traffic Control Work Hours Beyond the Shoulder – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$89.70</b>	<b>No Bid</b>
411	DAYS	<b>Traffic Control Work Days Beyond the Shoulder – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,985.00</b>	<b>\$897.00</b>	<b>No Bid</b>
412	HRS.	<b>Traffic Control Shoulder Closure Hours on Freeway – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$72.60</b>	<b>No Bid</b>
413	DAYS	<b>Traffic Control Shoulder Closure Days on Freeway – District 5</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,987.00</b>	<b>\$726.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
414	Barrel	<b>Crash Cushion – District 5</b> , Furnish, install, reset, remove and maintain sand barrel crash cushion. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and 702-C, and Standard Drawings 702-01	<b>\$3,167.00</b>	<b>\$1,445.00</b>	<b>No Bid</b>
415	HRS.	<b>Flagging Traffic Control (Urban Areas) – District 5</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in urban areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>No Bid</b>
416	HRS.	<b>Flagging Traffic Control (Rural Areas) – District 5</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in rural areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
417	HRS.	<b>Variable Message Board – District 5,</b> Provide, place and maintain each variable message board required by the District during traffic control operations. Section 702 and Special Provisions for Section 702-C	<b>\$41.00</b>	<b>\$25.00</b>	<b>No Bid</b>
418	HRS.	<b>Signalized Traffic Control – District 5,</b> Provide all traffic control devices necessary for signalization of 2-way traffic. Implement the signalization set up, monitor and maintain the setup. Section 701, Section 702 and Section 705 and Special Provisions for Section 702-C	<b>\$145.00</b>	<b>\$35.00</b>	<b>No Bid</b>
419	L.F.	<b>Permanent Striping – District 5,</b> Provide and place pavement striping using paint and traffic beads in work zones. Section 704	<b>\$0.70</b>	<b>\$11.55</b>	<b>No Bid</b>
420	L.F.	<b>Marking Tape – District 5,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704	<b>\$4.30</b>	<b>\$3.10</b>	<b>No Bid</b>
421	EACH	<b>Reflectorized Pavement Tabs – District 5,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704, Special Provisions for Section 704-A, and Standard Drawings for Section 704	<b>\$5.80</b>	<b>\$8.30</b>	<b>No Bid</b>
422	L.F.	<b>Eradication of Pavement Markings – District 5,</b> Removal of existing pavement markings. Section 721	<b>\$1.40</b>	<b>\$36.45</b>	<b>No Bid</b>
423	S.F.	<b>Panel Signs – District 5,</b> Installation of miscellaneous panel signs, bases and posts. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 701 and Standard Drawings for Section 701	<b>\$122.00</b>	<b>\$35.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
424	MILE	<b>Mobilization – District 5</b> , No payment will be made for moves of less than twenty-five (25) miles. Mileage will be measured and paid from the Contractor’s designated base station to the job site or when applicable mileage will be measured from an existing job site to the new job site and payment will be for whichever distance is less. No payment will be made for the Contractor’s return to their designated base station.	<b>\$58.00</b>	<b>\$57.60</b>	<b>No Bid</b>
425	EACH	<b>Discount / Payment for Invoice Items – District 5</b> , Amount of discount allowed on itemized materials. Invoice for accepted work. Approved invoice for accepted work approved and in place.	<b>0 Percent</b>	<b>0 Percent</b>	<b>No Bid</b>
426	S.Y.	<b>Partial Depth Deck Patching – District 6</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 426. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$1,263.00</b>	<b>\$565.00</b>	<b>No Bid</b>
427	S.Y.	<b>Partial Depth Deck Patching – District 6</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 427. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,138.00</b>	<b>\$519.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
428	S.Y.	<b>Partial Depth Deck Patching – District 6</b> , Removal of existing unsound concrete and rebar, and replacement with rapid-set concrete or approved concrete product and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 428. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,046.00</b>	<b>\$517.00</b>	<b>No Bid</b>
429	S.Y.	<b>Full Depth Deck Repair or Replacement – District 6</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 429. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 0-25 Square Yards)	<b>\$2,244.00</b>	<b>\$750.00</b>	<b>No Bid</b>
430	S.Y.	<b>Full Depth Deck Repair or Replacement – District 6</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 430. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range 26-100 Square Yards)	<b>\$1,917.00</b>	<b>\$655.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
431	S.Y.	<b>Full Depth Deck Repair or Replacement – District 6</b> , Removal of existing unsound concrete, rebar, forming and placement of concrete or rapid set concrete and new/supplemental rebar (where necessary). If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 431. Section 512, Section 533, Section 540, Special Provisions for Section 512, and Standard Drawings 533-01 (Range over 100 Square Yards)	<b>\$1,684.00</b>	<b>\$655.00</b>	<b>No Bid</b>
432	EACH	<b>Embedded Galvanic Anodes – District 6</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 426, 427 or 428. The actual full depth deck patches will be paid under Item Nos. 429, 430 or 431. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range 0-25 Anodes)	<b>\$19.00</b>	<b>\$15.95</b>	<b>No Bid</b>
433	EACH	<b>Embedded Galvanic Anodes – District 6</b> , Installation of galvanic anodes around the perimeter of a partial or full depth deck patch. The actual partial depth deck patches will be paid under Item Nos. 426, 427 or 428. The actual full depth deck patches will be paid under Item Nos. 429, 430 or 431. Section 512, Section 533, Section 540, Special Provisions for Section 512 and Section 533-B, and Standard Drawings 533-02 (Range over 25 Anodes)	<b>\$16.00</b>	<b>\$12.85</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
434	S.Y.	<b>Diamond Grinding of PCCP – District 6,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$321.00</b>	<b>\$230.00</b>	<b>No Bid</b>
435	S.Y.	<b>Diamond Grinding of PCCP – District 6,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$112.00</b>	<b>No Bid</b>
436	S.Y.	<b>Diamond Grinding of PCCP – District 6,</b> Includes Tankers, Fill-Up/Disposal. Will be paid per grinding pass (1/4 inch depth max. per pass). Section 455 and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$40.85</b>	<b>No Bid</b>
437	S.Y.	<b>Diamond Grooving of PCCP – District 6,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$65.55</b>	<b>No Bid</b>
438	S.Y.	<b>Diamond Grooving of PCCP – District 6,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range 51 to 200 Square Yards)	<b>\$346.00</b>	<b>\$40.00</b>	<b>No Bid</b>
439	S.Y.	<b>Diamond Grooving of PCCP – District 6,</b> Includes Tankers, Fill-Up/Disposal. Section 455 and Section 512, Special Provisions for Section 512, and Appendix "B" (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$23.45</b>	<b>No Bid</b>
440	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 6,</b> Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$145.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
441	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 6</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range 1 to 50 Square Yards)	<b>\$346.00</b>	<b>\$75.25</b>	<b>No Bid</b>
442	S.Y.	<b>Removal of Surfacing – Bridge Deck Overlay – District 6</b> , Includes Tankers (if required), Fill-Up/Disposal. Section 601 (Range over 200 Square Yards)	<b>\$346.00</b>	<b>\$35.65</b>	<b>No Bid</b>
443	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 6</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$66.00</b>	<b>\$22.95</b>	<b>No Bid</b>
444	S.Y.	<b>Deck Surface Treatment Preparation, HMWM Placement and Aggregate Broadcast – District 6</b> , Section 535 (Range over 499 Square Yards)	<b>\$43.00</b>	<b>\$18.40</b>	<b>No Bid</b>
445	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 6</b> , Section 535 (Range 0 to 499 Square Yards)	<b>\$66.00</b>	<b>\$22.95</b>	<b>No Bid</b>
446	S.Y.	<b>Deck Surface Treatment Preparation, LVLSTP Sealant, Placement and Aggregate Broadcast – District 6</b> , Section 535 (Range over 499 Square Yards)	<b>\$43.00</b>	<b>\$18.40</b>	<b>No Bid</b>
447	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 6</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$211.00</b>	<b>\$22.95</b>	<b>No Bid</b>
448	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay – District 6</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$139.00</b>	<b>\$18.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
449	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 6</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$273.00</b>	<b>\$24.85</b>	<b>No Bid</b>
450	S.Y.	<b>Surface Treatment - Table 536.2.1:1 Epoxy Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 6</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$187.00</b>	<b>\$20.35</b>	<b>No Bid</b>
451	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 6</b> , Section 536 and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$211.00</b>	<b>\$22.95</b>	<b>No Bid</b>
452	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay – District 6</b> , Section 536 and Appendix "C" (Range over 499 Square Yards)	<b>\$148.00</b>	<b>\$18.40</b>	<b>No Bid</b>
453	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 6</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range 0 to 499 Square Yards)	<b>\$273.00</b>	<b>\$24.85</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
454	S.Y.	<b>Surface Treatment - Table 536.2.1:2 Epoxy Urethane Polymer Concrete Deck Overlay with LVLSTP Crack Sealant – District 6</b> , As per manufacturer's recommendations (Table 535.2.2:1). Section 535 and Section 536, and Appendix "C" (Range over 499 Square Yards)	<b>\$187.00</b>	<b>\$20.35</b>	<b>No Bid</b>
455	S.Y.	<b>Testing Polymer Overlay for Surface Preparation &amp; Adhesion – District 6</b> , Per the requirements and Appendix "D" of this Agreement	<b>\$4,673.00</b>	<b>\$3,000.00</b>	<b>No Bid</b>
456	EACH	<b>Bearing Modification – District 6</b> , Reset existing bearing units or install supplemental or replacement units (includes all jacking) as directed by the Engineer. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Section 560	<b>\$7,174.00</b>	<b>\$2,465.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
457	EACH	<b>Temporary Shoring (Abutments) – District 6</b> , Temporarily support superstructure elements (each beam end) at abutments, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT Project Manager thirty (30) calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,692.00</b>	<b>\$3,875.00</b>	<b>No Bid</b>
458	EACH	<b>Temporary Shoring (Piers) – District 6</b> , Temporarily support superstructure elements (each beam end) at piers, from the ground up, by means of providing shoring. The Contractor must submit a jacking and temporary support plan to the NMDOT project manager 30 calendar days prior to the start of work. The plan must be designed and stamped by a Professional Engineer licensed in the State of New Mexico and must be approved by the NMDOT Bridge Bureau prior to the start of work. The temporary support plan must also factor in supporting loads for up to four months. Section 529 and Special Provisions for Section 533-A	<b>\$6,692.00</b>	<b>\$4,685.00</b>	<b>No Bid</b>
459	HOUR	<b>Welder &amp; Welder Assistant – District 6</b> , Certified welder and assistant for welding of various components. Section 541.3.6.4.1	<b>\$324.00</b>	<b>\$295.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
460	L.F.	<b>Strip Seal Joint Full Depth Replacement at Abutments – District 6</b> , Removal of existing joint and concrete deck, abutment backwall or sleeper footer and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 460. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$259.25</b>	<b>No Bid</b>
461	L.F.	<b>Strip Seal Joint Full Depth Replacement at Piers – District 6</b> , Removal of existing joint and concrete deck and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 461. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$603.00</b>	<b>\$290.25</b>	<b>No Bid</b>
462	L.F.	<b>Strip Seal Joint Partial Depth Replacement – District 6</b> , Removal of existing joint/concrete deck (or abutment backwall) and installation of strip seal/steel extrusion embedded in concrete or rapid-set concrete. Section 512, Section 533 and Section 562, Special Provision for Section 512, and Standard Drawings 562-01	<b>\$477.00</b>	<b>\$165.50</b>	<b>No Bid</b>
463	L.F.	<b>Joint Seals – District 6</b> , Removal and replacement of existing joint seals. Section 561, Section 562 and Standard Drawings 562-01	<b>\$124.00</b>	<b>\$53.75</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
464	L.F.	<b>Pre-Molded Joint Seal – District 6</b> , Removal of existing joint seals and installation of new joint material. Section 564 and Section 565, and Standard Drawing 564-01	<b>\$124.00</b>	<b>\$58.00</b>	<b>No Bid</b>
465	L.F.	<b>Pre-Molded Joint Seal with Concrete Removal – District 6</b> , Removal of existing joint, existing concrete removal, installation of rapid-set concrete headers and installation of joint components including polymer bridge seals Type "A." Section 512, Section 533, Section 562 and Section 564, Special Provision for Section 512, and Standard Drawing 564-01	<b>\$547.00</b>	<b>\$82.70</b>	<b>No Bid</b>
466	S.Y.	<b>Concrete Repair – District 6</b> , May include Concrete Box Culvert Repair. Removal of unsound concrete and rebar, forming and placement of new concrete or rapid-set concrete and new/supplemental rebar (where necessary). Section 511, Section 512, Section 515 and Section 533, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 515 and Section 533-01	<b>\$1,422.00</b>	<b>\$640.00</b>	<b>No Bid</b>
467	C.Y.	<b>Substructure Replacement – District 6</b> , Removal of existing concrete, rebar, etc., straightening of rebar and existing piles etc. to be retained in the new concrete. Includes the forming and placement of new concrete or rapid set concrete for pier caps, columns and abutments. New reinforcement is to be paid under Bid Item No. 471 - Reinforcing Bars. Section 510, Section 533 and Special Provisions for Section 511	<b>\$5,097.00</b>	<b>\$3,055.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
468	C.Y.	<b>Backwall Replacement – District 6</b> , Removal of existing joint/concrete forming and replacement with new joint/rapid set concrete or approved concrete. The joint is to be replaced under Bid Item Nos. 460, 462, 463, 464 or 465. Existing reinforcement is to be preserved. If replacement reinforcement is required, reinforcement is to be paid under Bid Item No. 468. Section 510, Section 511 and Section 533 and Special Provisions for Section 511	<b>\$5,053.00</b>	<b>\$4,245.00</b>	<b>No Bid</b>
469	C.Y.	<b>Concrete Box Culvert Extension – District 6</b> , Forming and placement of new concrete for extension of existing box culverts. Section 511 and Section 512, Special Provisions for Section 511 and Section 512, and Standard Drawings for Section 511	<b>\$4,015.00</b>	<b>\$2,595.00</b>	<b>No Bid</b>
470	S.F.	<b>Concrete Slab on Grade – District 6</b> , Removal of concrete, forming and placement of concrete and reinforcement for sidewalks and other small miscellaneous slabs. Section 511 and Section 601, Special Provisions for Section 511, and Standard Drawings for Section 511	<b>\$194.00</b>	<b>\$56.70</b>	<b>No Bid</b>
471	LBS.	<b>Reinforcing Bars – District 6</b> , Placement of rebar for major repairs and/or replacement of existing concrete structures. If the amount of reinforcement that is to be replaced is under 4,000 lbs. it shall be paid under its respective concrete replacement item. Section 540 and Special Provisions for Section 540 (Range over 4,000 lbs.)	<b>\$4.00</b>	<b>\$5.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
472	S.Y.	<b>Penetrating Water Repellent Treatment – District 6</b> , Application of a penetrating water repellent treatment to concrete surfaces to include girder ends, pier caps and abutments. In conformance with approved materials and Manufacturer’s recommendations. Section 532 and Special Provisions for Section 532	<b>\$6.00</b>	<b>\$6.10</b>	<b>No Bid</b>
473	GAL.	<b>Epoxy Injection – District 6</b> , Epoxy injection of cracks in concrete bridge members, backwalls, etc. Section 534	<b>\$3,011.00</b>	<b>\$3,205.00</b>	<b>No Bid</b>
474	L.F.	<b>Concrete Barrier Railing Replacement – District 6</b> , New or removal of existing railing, forming and replacement with cast-in-place concrete and rebar barrier railing. Section 514, Special Provision for Section 606, and Standard Drawings for Section 514 and Section 606	<b>\$413.00</b>	<b>\$287.50</b>	<b>No Bid</b>
475	L.F.	<b>Metal Railing (Bridge Railing) – District 6</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range 0-100 linear feet)	<b>\$192.00</b>	<b>\$128.70</b>	<b>No Bid</b>
476	L.F.	<b>Metal Railing (Bridge Railing) – District 6</b> , Removal of existing metal railing and posts and installation of new metal railing and posts, as directed by the Project Manager. Section 543 and Standard Drawings for Section 543 (Range over 100 linear feet)	<b>\$160.00</b>	<b>\$120.55</b>	<b>No Bid</b>
477	S.F.	<b>Surface Preparation And Recoating Of Concrete Surfaces – District 6</b> , Section 511	<b>\$16.00</b>	<b>\$8.55</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
478	S.F.	<b>Surface Preparation And Recoating of Steel Structural Components – District 6</b> , Prepare surface per Section 546.3.1.2 Power-Tool Cleaning to Bare Metal (SSPC-SP11) and recoat steel structural components. Section 546 and Section 547 and Special Provisions for Section 546	<b>\$59.00</b>	<b>\$57.00</b>	<b>No Bid</b>
479	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Initial Layer) – District 6</b> , Application of initial Fiber Reinforced Polymer (FRP) layer per contract. Section 533 and Special Provisions for Section 533-A	<b>\$112.00</b>	<b>\$92.25</b>	<b>No Bid</b>
480	S.F.	<b>Externally Bonded Fiber Reinforced Polymer (Additional Layers) – District 6</b> , Application of additional Fiber Reinforced Polymer (FRP) layers per contract. Section 533 and Special Provisions for Section 533-A	<b>\$90.00</b>	<b>\$54.10</b>	<b>No Bid</b>
481	S.F.	<b>FRP Finish Coat (Final) – District 6</b> , Application of Fiber Reinforced Polymer (FRP) finish coat per contract. Section 533 and Special Provisions for Section 533-A	<b>\$64.00</b>	<b>\$16.15</b>	<b>No Bid</b>
482	L.F.	<b>12 Inch - 48 Inch CMP Run Down – District 6</b> , Install 12 inch to 48 inch diameter corrugated metal pipe on slopes. Section 206, Section 570 and Section 605, and Standard Drawings for Section 206 and Section 570	<b>\$133.00</b>	<b>\$85.00</b>	<b>No Bid</b>
483	C.Y.	<b>Rip Rap or Gabions – District 6</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range 0-10 Cubic Yards)	<b>\$1,074.00</b>	<b>\$416.35</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
484	C.Y.	<b>Rip Rap or Gabions – District 6</b> , Protection of abutments, piers or channel (wire enclosed riprap or gabions). Section 602, Special Provision for Section 602, and Standard Drawings for Section 602 (Range over 10 Cubic Yards)	<b>\$1,048.00</b>	<b>\$248.85</b>	<b>No Bid</b>
485	C.Y.	<b>Erosion Repair – District 6</b> , Grading and backfilling to return eroded slopes to their original design contours (hauling of material is not included). Section 207 and Special Provision for Section 207	<b>\$67.00</b>	<b>\$64.50</b>	<b>No Bid</b>
486	C.Y.	<b>Placement Of Flowable Fill – District 6</b> , This work consists of providing and placing flowable fill. Section 516	<b>\$441.00</b>	<b>\$90.00</b>	<b>No Bid</b>
487	S.F.	<b>Slope Paving – District 6</b> , Concrete forming and placement of new concrete and reinforcement for concrete paved slopes. Section 515, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$23.00</b>	<b>\$16.95</b>	<b>No Bid</b>
488	S.F.	<b>Slope Paving Repair – District 6</b> , Removal and replacement of concrete at existing concrete paved slopes. Section 515 and Section 533, Special Provisions for Section 511, and Standard Drawing 511-05	<b>\$44.00</b>	<b>\$32.85</b>	<b>No Bid</b>
489	L.F.	<b>Temporary Concrete Wall Barrier Placement – District 6</b> , Transport, place and return precast concrete wall barrier as directed by the Project Manager. Special Provision for Section 606 and Standard Drawings 606-20	<b>\$34.00</b>	<b>\$14.50</b>	<b>No Bid</b>
490	L.F.	<b>Temporary Concrete Wall Barrier Reset – District 6</b> , Reset existing precast concrete wall barrier. Section 606 (Metal and Concrete Wall Barrier)	<b>\$10.00</b>	<b>\$12.40</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
491	HRS.	<b>Traffic Control Work Hours Per Lane (Urban Areas) – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$149.50</b>	<b>No Bid</b>
492	DAYS	<b>Traffic Control Work Days Per Lane (Urban Areas) – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,431.00</b>	<b>\$1,495.00</b>	<b>No Bid</b>
493	HRS.	<b>Traffic Control Work Hours Per Lane (Rural Areas) – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$304.00</b>	<b>\$89.70</b>	<b>No Bid</b>
494	DAYS	<b>Traffic Control Work Days Per Lane (Rural Areas) – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$2,432.00</b>	<b>\$897.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
495	HRS.	<b>Traffic Control Work Hours Beyond the Shoulder – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$89.70</b>	<b>No Bid</b>
496	DAYS	<b>Traffic Control Work Days Beyond the Shoulder – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,985.00</b>	<b>\$897.00</b>	<b>No Bid</b>
497	HRS.	<b>Traffic Control Shoulder Closure Hours on Freeway – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$237.00</b>	<b>\$72.60</b>	<b>No Bid</b>
498	DAYS	<b>Traffic Control Shoulder Closure Days on Freeway – District 6</b> , In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701 and Section 702, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and 702	<b>\$1,987.00</b>	<b>\$726.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
499	Barrel	<b>Crash Cushion – District 6</b> , Furnish, install, reset, remove and maintain sand barrel crash cushion. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and 702-C, and Standard Drawings 702-01	<b>\$3,167.00</b>	<b>\$1,445.00</b>	<b>No Bid</b>
500	HRS.	<b>Flagging Traffic Control (Urban Areas) – District 6</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in urban areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>No Bid</b>
501	HRS.	<b>Flagging Traffic Control (Rural Areas) – District 6</b> , Provide certified trained personnel and necessary equipment to properly implement approved traffic control plan requiring flagging operation in rural areas. Payment shall be per flagger per hour. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 618, Section 701, Section 702 and Section 720, Special Provisions for Section 618 and Section 702-C, and Standard Drawings for Section 701 and Section 702	<b>\$78.00</b>	<b>\$67.35</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
502	HRS.	<b>Variable Message Board – District 6,</b> Provide, place and maintain each variable message board required by the District during traffic control operations. Section 702 and Special Provisions for Section 702-C	<b>\$41.00</b>	<b>\$25.00</b>	<b>No Bid</b>
503	HRS.	<b>Signalized Traffic Control – District 6,</b> Provide all traffic control devices necessary for signalization of 2-way traffic. Implement the signalization set up, monitor and maintain the setup. Section 701, Section 702 and Section 705 and Special Provisions for Section 702-C	<b>\$145.00</b>	<b>\$35.00</b>	<b>No Bid</b>
504	L.F.	<b>Permanent Striping – District 6,</b> Provide and place pavement striping using paint and traffic beads in work zones. Section 704	<b>\$0.70</b>	<b>\$11.55</b>	<b>No Bid</b>
505	L.F.	<b>Marking Tape – District 6,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704	<b>\$4.30</b>	<b>\$3.10</b>	<b>No Bid</b>
506	EACH	<b>Reflectorized Pavement Tabs – District 6,</b> Furnish, install, maintain and remove adhesive marking tape in work zones. Section 704, Special Provisions for Section 704-A, and Standard Drawings for Section 704	<b>\$5.80</b>	<b>\$8.30</b>	<b>No Bid</b>
507	L.F.	<b>Eradication of Pavement Markings – District 6,</b> Removal of existing pavement markings. Section 721	<b>\$1.40</b>	<b>\$36.45</b>	<b>No Bid</b>
508	S.F.	<b>Panel Signs – District 6,</b> Installation of miscellaneous panel signs, bases and posts. In accordance with the current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Section 701 and Standard Drawings for Section 701	<b>\$122.00</b>	<b>\$35.00</b>	<b>No Bid</b>

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Item	UOM	Article and Description	(AA)	(AB)	(AC)
509	MILE	<b>Mobilization – District 6</b> , No payment will be made for moves of less than twenty-five (25) miles. Mileage will be measured and paid from the Contractor’s designated base station to the job site or when applicable mileage will be measured from an existing job site to the new job site and payment will be for whichever distance is less. No payment will be made for the Contractor’s return to their designated base station.	<b>\$58.00</b>	<b>\$57.60</b>	<b>No Bid</b>
510	EACH	<b>Discount / Payment for Invoice Items – District 6</b> , Amount of discount allowed on itemized materials. Invoice for accepted work. Approved invoice for accepted work approved and in place.	<b>0 Percent</b>	<b>0 Percent</b>	<b>No Bid</b>

\*\*\*510 Items Awarded Total \*\*\*

