

**COMMUNICATIONS AND REPORTS**  
**AUGUST 16, 2022**

The following communications and reports were received, duly noted, and ordered placed on file with the Clerk:

**COMMUNICATIONS**

- A. State of Nevada Department of Transportation – Contract No. 3930, Project No. SPSR-0659(004), dated July 29, 2022.

**MONTHLY STATEMENTS/REPORTS**

- A. Clerk of the Court, Monthly Statement for month ending July 31, 2022.



STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

1263 South Stewart Street  
Carson City, Nevada 89712

STEVE SISOLAK  
Governor

KRISTINA SWALLOW, P.E.  
Director

July 29, 2022

Granite Construction Company  
585 West Beach St  
Watsonville, CA 95076

Executed Copies  
Contract #3930

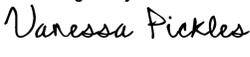
Contract #3930, Project #SPSR-0659(004), on SR 659, in Washoe County

Dear Sir or Madam:

This is to advise you that the subject contract has been completely executed effective July 29, 2022, and a satisfactory bond furnished and approved. We are, therefore, releasing your bid bond which accompanied your proposal.

A completed Contract Bonds and Proposal has been sent to you via DocuSign.

Sincerely,

DocuSigned by:  
  
36FD557BD999425  
Vanessa Pickles  
Contract Services

cc: Michael Fuess, District Engineer  
Ryan Hornback, Resident Engineer  
Contract Compliance  
Construction  
County Clerk

CONTRACT FORM

CONTRACT #3930

This Contract, made and entered into this 21st day of July 2022, by and between the State of Nevada Department of Transportation, hereinafter called the Department, and Granite Construction Company of 585 West Beach Street, Watsonville, CA 95076, hereinafter called the Contractor.

Witnesseth: The Contractor agrees with the Department that, for the consideration and agreements hereinafter mentioned and contained to be made and performed by the Department, and under the conditions expressed in a bond bearing even date with these presents, and hereunto annexed, that the Contractor shall and will at its own proper cost and expense, do all the work and furnish all the materials necessary for the substantial construction and completion, and to the satisfaction of the Department, of a portion of the highway system of the State of Nevada, being in the County of Washoe, on SR 659, Route Section SR659-1, Mileposts MP WA 17.05 to MP WA 17.90, for mill and fill, hereinafter called the Project, in strict conformity, in every part and particular, with the Department's Standard Specifications for Road and Bridge Construction 2014, Project Plans, Project Special Provisions, and Project Invitation to Bid, which are made a part hereof, and in full compliance with the terms of this Contract.

And the Contractor hereby further agrees to receive and accept the prices set forth in the Proposal – Contract #3930, Total Proposal Amount: Two Million Six Hundred Thirty-Three Thousand Six Hundred Thirty-Three Dollars and 00/100 Dollars (\$2,633,633.00), hereto annexed and thereby made a part of this Contract, as full compensation for furnishing all materials and labor, and the doing of all work, in strict accordance with the drawings and specifications hereinbefore mentioned, to the satisfaction of the Architect/Engineer and in the manner and under the conditions hereinbefore specified.

The Department hereby promises and agrees with the Contractor, to employ, and does hereby employ, the Contractor to provide the materials and do the work according to the terms and conditions herein contained and referred to, for the prices aforesaid, and hereby contracts to pay the same at the time, in the manner, and upon the conditions set forth herein; and the parties themselves, their heirs, executors, administrators, successors, and assigns, do hereby agree to the full performance of the covenants herein contained. The Contractor further agrees that no moneys payable under this Contract shall be assigned by power of attorney, or otherwise, except upon the written consent of the Department.

In the event that a Bidder's Preference was applied to the Contractor's Proposal and Bidder's Preference contributed to the Contractor being awarded the Contract, pursuant to subsection 2 of NRS 338.1389, subsection 2 of NRS 338.147, subsection 3 of NRS 338.1693, subsection 3 of NRS 338.1727 or subsection 2 of NRS 408.3886 a contractor must submit to the Department a signed affidavit which certifies that, for the duration of the project, collectively, and not on any specific day:

- a) At least 50 percent of the workers employed on the project, including, without limitation, any employees of the Contractor and of any subcontractor engaged on the project, will hold a valid driver's license or identification card issued by the Department of Motor Vehicles of the State of Nevada;
- b) All vehicles used primarily for the project will be:
  1. Registered and partially apportioned to Nevada pursuant to the International Registration Plan, as adopted by the Department of Motor Vehicles pursuant to NRS 706.826; or
  2. Registered in this State.
- c) The Contractor and any subcontractor engaged on the project will maintain and make available for inspection within this State his or her records concerning payroll relating to the project.

Contractor agrees that failure to comply with any requirement of paragraphs (a) to (c), inclusive, above at any time during the entire duration of the Project is a material breach of this Contract and entitles the Department to liquidated damages against the party responsible for a failure to comply with a requirement of paragraphs (a) to (c), inclusive above. If a party to the Contract causes a material breach of contract between the Contractor and the Department as a result of a failure to comply with paragraphs (a) to (c), inclusive, above, the party is liable to the Department for liquidated damages in the amount of one percent (1%) of the cost of the largest contract to which he or she is a party. The Department may recover this amount directly against the party that causes the material breach, and no other party is liable to the Department for liquidated damages. These damages are not intended as a penalty. Damages are difficult to ascertain, and the Parties agree that this amount is a reasonable estimate of presumed actual damages. Contractor must provide in any contract between Contractor and any subcontractor for the apportionment of liquidated damages assessed pursuant to this section if a person other than Contractor was responsible for the breach of this Contract for the Project caused by a failure to comply with a requirement of paragraphs (a) to (c), inclusive, above. The apportionment of liquidated damages must be in proportion to the responsibility of each party for the breach.

During the performance of this contract, the contractor, for itself, its assignees and successors in interest agrees as follows:

- (1) **Compliance with Regulations:** The Contractor shall comply with the Regulation relative to nondiscrimination in federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, and the Federal Highway Administration (hereinafter "FHWA") Title 23, Code of Federal Regulations, Part 200 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- (2) **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, or national origin and low-income status in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by 49 CFR, section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- (3) **Solicitations for Subcontractors, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, or national origin and low income status.
- (4) **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Nevada Department of Transportation (hereinafter, "NDOT") or the FHWA to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the NDOT, or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, the NDOT shall impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:
  - a. withholding of payments to the Contractor under the contract until the Contractor complies, and/or
  - b. cancellation, termination or suspension of the contract, in whole or in part.

(6) **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

It is further agreed, by and between the parties hereto, that should there be any conflict between the terms of this Contract and the Proposal of the Contractor, then this Contract shall control, and nothing herein shall be considered an acceptance of the terms of such Proposal conflicting therewith.

And the Contractor hereby further agrees that the payment of the final amount due under this Contract shall release the State of Nevada and the Department of Transportation from any and all claims or liability on account of work performed under this Contract other than such claims, if any, as may be specifically excepted by the Contractor in writing at the time final payment is made.

In Witness Whereof, each party to the presents have hereunto caused this Contract to be executed by a duly authorized representative as of the year and date first above written.

**Attested:**

**STATE OF NEVADA**

Through the Department of Transportation

DocuSigned by:

*Kristina L. Swallow*

C4B612FC2C7E4FB...

Director, Department of Transportation

Chairman, Board of Directors, Department of Transportation

**Dated:** \_\_\_\_\_

**Approved as to Form and Legality:**

DocuSigned by:

*Dennis Gallagher*

65EE3F49CACD400...

Deputy Attorney General, Chief Counsel

**Granite Construction Company**

DocuSigned by:

*Ashley Stinson*

8B86A935194A4DF...

**By:**

Ashley Stinson

Vice President

Name and Title



PERFORMANCE BOND

Whereas, the Nevada Department of Transportation, hereinafter designated as "NDOT", has awarded to Granite Construction Company of 585 West Beach Street, Watsonville, CA 95076, hereinafter designated "PRINCIPAL", Contract #3930 dated July 21, 2022, for the following work: Construction of a portion of the State Route Highway System in Washoe County, on SR 659, for mill and fill; and

Whereas, PRINCIPAL is required under the terms of said Contract and by law to furnish a Bond for the performance of said Contract;

Now therefore, we PRINCIPAL, and Travelers Casualty and Surety Company of America

(Surety Company Name and Primary Address)

hereinafter designated "SURETY", are held and firmly bound unto NDOT, in the sum of Two Million Six Hundred Thirty-Three Thousand Six Hundred Thirty-Three Dollars and 00/100 Dollars (\$2,633,633.00), lawful money of the United States, being not less than one hundred percent (100%) of the estimated contract cost of the work, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above-bounden PRINCIPAL's heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and faithfully perform the covenants, conditions, and agreements in the Contract and any alterations made as therein provided, on PRINCIPAL's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning; and shall indemnify and save harmless NDOT, its officers and agents, as therein stipulated; then this obligation shall become null and void. Otherwise, it shall be and remain in full force and virtue.

SURETY, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of Contract, or to the work to be performed thereunder, shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work.

And SURETY, for value received, hereby stipulates and agrees, if requested to do so by NDOT, to perform and fully complete the work mentioned and described in said Contract, pursuant to the terms, conditions and covenants thereof, if for any cause, said Principal fails or neglects to so perform and fully complete said work; the said SURETY further agrees to commence said work to full completion within twenty (20) days after notice thereof from NDOT, and to fully complete the same with all due diligence and in accordance with the plans and specifications.

And SURETY, for value received, further stipulates and agrees that should NDOT incur attorney's fees or other expenses for the enforcement of the Contract or this Bond, the same shall be paid by SURETY to NDOT.

The Surety Company hereby certifies that it is duly authorized by certificate of authority issued by the State of Nevada Division of Insurance to conduct business in the State of Nevada.

DocuSigned by: John Gilliland  
By: John Gilliland  
77A147FA5B0B4D8  
Attorney in Fact (on file with the NV Division of Insurance)

Name: John Gilliland  
Date: 07/25/2022

Granite Construction Company  
DocuSigned by: Ashley Stinson  
By: Ashley Stinson  
8B86A935194A40E  
Signature on behalf of Principal

Name and Title: Ashley Stinson Vice President

Alliant Insurance Services, Inc.  
Name of Resident Agent  
2300 West Sahara Street, Suite 800  
Resident Agent Street Address  
Las Vegas, NV 89102  
Resident Agent City and State

NOTE TO SURETY ON BOND: Certificates of authority for Attorneys in Fact must be on file with the Department of Transportation and the Insurance Commissioner of the State of Nevada.

Bond No(s): 107611642

DocuSigned by: Dennis Gallagher  
Approval of Bond  
By: Dennis Gallagher  
85E8F4A0C1E  
Deputy Attorney General, Chief Counsel  
07/25/2022  
Date

PAYMENT BOND

Whereas, the Nevada Department of Transportation, hereinafter designated as "NDOT", has awarded to Granite Construction Company of 585 West Beach Street, Watsonville, CA 95076, hereinafter designated "PRINCIPAL", Contract #3930 dated July 21, 2022, for the following work: Construction of a portion of the State Route Highway System in Washoe County, on SR 659, for mill and fill; and

Whereas, PRINCIPAL is required under the terms of said Contract and by law to furnish a Bond for labor and materials used in said Contract;

Now therefore, we PRINCIPAL, and Travelers Casualty and Surety Company of America

(Surety Company Name and Primary Address)

hereinafter designated "SURETY", are held and firmly bound unto NDOT, in the sum of Two Million Six Hundred Thirty-Three Thousand Six Hundred Thirty-Three Dollars and 00/100 Dollars (\$2,633,633.00), lawful money of the United States, being not less than one hundred percent (100%) of the estimated contract cost of the work, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above-bounded PRINCIPAL's heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and faithfully perform the covenants, conditions, and agreements in the Contract and any alterations made as therein provided, on PRINCIPAL's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning; and shall indemnify and save harmless NDOT, its officers and agents, as therein stipulated; then this obligation shall become null and void. Otherwise, it shall be and remain in full force and virtue.

SURETY, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of Contract, or to the work to be performed thereunder, shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work.

And SURETY, for value received, hereby stipulates and agrees, if requested to do so by NDOT, to perform and fully complete the work mentioned and described in said Contract, pursuant to the terms, conditions and covenants thereof, if for any cause, said Principal fails or neglects to so perform and fully complete said work; the said SURETY further agrees to commence said work to full completion within twenty (20) days after notice thereof from NDOT, and to fully complete the same with all due diligence and in accordance with the plans and specifications.

And SURETY, for value received, further stipulates and agrees that should NDOT incur attorney's fees or other expenses for the enforcement of the Contract or this Bond, the same shall be paid by SURETY to NDOT.

The Surety Company hereby certifies that it is duly authorized by certificate of authority issued by the State of Nevada Division of Insurance to conduct business in the State of Nevada.

DocuSigned by: John Gilliland  
By: John Gilliland  
77A147FA5B0B4D8  
Attorney in Fact (on file with the NV Division of Insurance)

Granite Construction Company  
DocuSigned by: Ashley Stinson  
By: Ashley Stinson  
8B86A935194A40E  
Signature on behalf of Principal

Name: John Gilliland  
Date: 07/25/2022

Name and Title: Ashley Stinson Vice President

Alliant Insurance Services, Inc.  
Name of Resident Agent  
2300 West Sahara Street, Suite 800  
Resident Agent Street Address  
Las Vegas, NV 89102  
Resident Agent City and State



NOTE TO SURETY ON BOND: Certificates of authority for Attorneys in Fact must be on file with the Department of Transportation and the Insurance Commissioner of the State of Nevada.

Bond No(s): 107611642

Approval of Bond  
DocuSigned by: Dennis Gallagher  
By: Dennis Gallagher  
85E8F4A0C1E  
Deputy Attorney General, Chief Counsel  
07/25/2022  
Date

## Nevada Department of Transportation

### Bid Proposal

The undersigned, as bidder, declares that the only person or parties interested in this proposal as principals are those named herein, that this proposal is made without collusion with any other person, firm, or corporation, that they have carefully examined the proposed form of contract and the plans and specifications therein referred to and made a part thereof, and they propose and agree, if this proposal is accepted, that they will contract with the Nevada Department of Transportation, in the form of the contract prescribed, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all work and furnish all the materials specified in the contract and annexed plans and specifications, in the manner and time prescribed and according to the requirements of the Engineer as therein set forth, it being understood and agreed that the quantities shown herein are approximate only and are subject to increase or decrease, and that they will accept full payment.



|                       |
|-----------------------|
| Contract Number: 3930 |
| Location: SR 659      |
| County: WASHOE        |

**Contractor Profile:**

|   |
|---|
| Contractor: Granite Construction Company                |
| Contractor ID: 125                                      |
| Address: 585 West Beach Street<br>Watsonville, CA 95076 |
| Phone: (831) 724-1011                                   |
| Fax: (775) 358-0372                                     |
| Email: kyle.larkin@gcinc.com                            |

**Acknowledgment of Addenda:**

| Seq# | Date     | User         |
|------|----------|--------------|
| 1    | 7/7/2022 | Taylor Polan |

|  |                           |
|--|---------------------------|
| <b>Proposal Guaranty</b>                     |                           |
| Surety 2000                                  | Bond Amount: \$131,681.65 |
| Bond Authorization Code or Check#SNV07016660 |                           |

**Bid Opening Date:** July 07, 2022 01:30 PM  
**Contract Number:** 3930  
**Location:** SR 659

**County:** WASHOE  
**Project Funding:** STATE

**Description:** mill and fill

**Proposal For:** Granite Construction Company

**District:** DISTRICT 2

| Seq# | Item#   | Description  | Unit  | Quantity   | Unit Price   | Extended Price |
|------|---------|--|-------|------------|--------------|----------------|
| 1    | 2020925 | REMOVAL OF PULL BOX  | EACH  | 13.000     | \$240.00     | \$3,120.00     |
| 2    | 2020935 | REMOVAL OF COMPOSITE SURFACE                               | CUYD  | 20.000     | \$200.00     | \$4,000.00     |
| 3    | 2020955 | REMOVAL OF BITUMINOUS SHOULDER DIKE                        | LINFT | 16.000     | \$37.00      | \$592.00       |
| 4    | 2020990 | REMOVAL OF BITUMINOUS SURFACE (COLD MILLING)               | SQYD  | 56,867.000 | \$5.40       | \$307,081.80   |
| 5    | 2020995 | REMOVAL OF BITUMINOUS SURFACE (MISCELLANEOUS COLD MILLING) | SQYD  | 2,843.000  | \$5.90       | \$16,773.70    |
| 6    | 3020140 | TYPE 1 CLASS B AGGREGATE BASE                              | CUYD  | 15.000     | \$290.00     | \$4,350.00     |
| 7    | 4020130 | PLANTMIX BITUMINOUS SHOULDER DIKES                         | LINFT | 16.000     | \$170.00     | \$2,720.00     |
| 8    | 4020180 | PLANTMIX SURFACING (TYPE 2) (WET)                          | TON   | 9,278.000  | \$132.00     | \$1,224,696.00 |
| 9    | 4030110 | PLANTMIX OPEN-GRADED SURFACING (3/8-INCH) (WET)            | TON   | 2,182.000  | \$205.00     | \$447,310.00   |
| 10   | 6090260 | ADJUSTING MANHOLE COVERS (METHOD B)                        | EACH  | 9.000      | \$4,200.00   | \$37,800.00    |
| 11   | 6090570 | ADJUSTING COVERS (SPECIAL)                                 | EACH  | 1.000      | \$4,200.00   | \$4,200.00     |
| 12   | 6090600 | ADJUSTING VALVE COVERS (METHOD B)                          | EACH  | 3.000      | \$4,200.00   | \$12,600.00    |
| 13   | 6130880 | CLASS AA CONCRETE CURB AND GUTTER (TYPE 7) (MODIFIED)      | LINFT | 19.000     | \$195.00     | \$3,705.00     |
| 14   | 6180250 | REMOVE AND RESET GUARDRAIL                                 | LINFT | 84.000     | \$65.75      | \$5,523.00     |
| 15   | 6230230 | NO. 5 PULL BOX   | EACH  | 13.000     | \$1,040.00   | \$13,520.00    |
| 16   | 6230775 | LOOP DETECTOR  | EACH  | 96.000     | \$690.00     | \$66,240.00    |
| 17   | 6231820 | 3-INCH CONDUIT   | LINFT | 120.000    | \$40.00      | \$4,800.00     |
| 18   | 6240130 | UNIFORMED TRAFFIC CONTROL OFFICER                          | FA    | 1.000      | \$21,000.00  | \$21,000.00    |
| 19   | 6240140 | TRAFFIC CONTROL SUPERVISOR                                 | DAY   | 30.000     | \$1,400.00   | \$42,000.00    |
| 20   | 6250490 | RENT TRAFFIC CONTROL DEVICES                               | LS    | 1.000      | \$150,000.00 | \$150,000.00   |
| 21   | 6280120 | MOBILIZATION   | LS    | 1.000      | \$192,947.25 | \$192,947.25   |
| 22   | 6320800 | EPOXY PAVEMENT STRIPING (VARIES)                           | SQFT  | 1,120.000  | \$10.00      | \$11,200.00    |
| 23   | 6320830 | EPOXY PAVEMENT STRIPING (8-INCH DOTTED WHITE)              | LINFT | 633.000    | \$0.75       | \$474.75       |
| 24   | 6320870 | EPOXY PAVEMENT STRIPING (BROKEN WHITE)                     | MILE  | 2.960      | \$1,000.00   | \$2,960.00     |
| 25   | 6320920 | EPOXY PAVEMENT STRIPING (6-INCH SOLID WHITE)               | MILE  | 1.580      | \$5,000.00   | \$7,900.00     |

| <b>Seq#</b>                               | <b>Item#</b> | <b>Description</b>                                   | <b>Unit</b> | <b>Quantity</b> | <b>Unit Price</b> | <b>Extended Price</b> |
|---|--------------|--|-------------|-----------------|-------------------|-----------------------|
| 26  | 6320930      | EPOXY PAVEMENT STRIPING (8-INCH SOLID WHITE)         | LINFT       | 2,640.000       | \$0.75            | \$1,980.00            |
| 27  | 6320950      | EPOXY PAVEMENT STRIPING (12-INCH SOLID WHITE)        | LINFT       | 68.000          | \$6.00            | \$408.00              |
| 28  | 6321010      | EPOXY PAVEMENT STRIPING (SOLID YELLOW)               | MILE        | 1.480           | \$4,000.00        | \$5,920.00            |
| 29  | 6341030      | THERMOPLASTIC PAVEMENT MARKING (24-INCH SOLID WHITE) | LINFT       | 1,071.000       | \$16.50           | \$17,671.50           |
| 30  | 6341060      | THERMOPLASTIC PAVEMENT MARKING (VARIES)              | SQFT        | 907.000         | \$20.00           | \$18,140.00           |
| 31  | 6370110      | TEMPORARY POLLUTION CONTROL                          | LS          | 1.000           | \$2,000.00        | \$2,000.00            |
| <b>Total Bid for Award Consideration:</b> |              |  |             |                 |                   | <b>\$2,633,633.00</b> |



**Travelers Casualty and Surety Company of America  
Travelers Casualty and Surety Company  
St. Paul Fire and Marine Insurance Company**

**POWER OF ATTORNEY**

**KNOW ALL MEN BY THESE PRESENTS:** That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **John D Gilliland** of **WATSONVILLE, California**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

**IN WITNESS WHEREOF**, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd** day of **February, 2017**.



State of Connecticut

City of Hartford ss.

By:   
Robert L. Raney, Senior Vice President

On this the **3rd** day of **February, 2017**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

**In Witness Whereof**, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**



Marie C Tetreault  
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

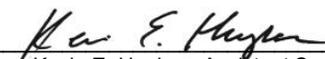
**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **25** day of **July**, **2022**.



  
Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.  
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.**

(6) **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

It is further agreed, by and between the parties hereto, that should there be any conflict between the terms of this Contract and the Proposal of the Contractor, then this Contract shall control, and nothing herein shall be considered an acceptance of the terms of such Proposal conflicting therewith.

And the Contractor hereby further agrees that the payment of the final amount due under this Contract shall release the State of Nevada and the Department of Transportation from any and all claims or liability on account of work performed under this Contract other than such claims, if any, as may be specifically excepted by the Contractor in writing at the time final payment is made.

In Witness Whereof, each party to the presents have hereunto caused this Contract to be executed by a duly authorized representative as of the year and date first above written.

**Attested:**

**STATE OF NEVADA**  
Through the Department of Transportation

\_\_\_\_\_  
Director, Department of Transportation

\_\_\_\_\_  
Chairman, Board of Directors, Department of Transportation  
Dated: 2-26-22

**Approved as to Form and Legality:**

DocuSigned by:  
Dennis Gallagher  
65EE3F49CACD400...  
Deputy Attorney General, Chief Counsel

DocuSigned by:  
Ashley Stinson  
8B86A935194A4DF...  
By: \_\_\_\_\_  
Ashley Stinson Vice President  
Name and Title

In Progress



# Nevada Department of Transportation

## Estimate of Quantities Report

Quantities shown are approximate and subject to change

**Bid Opening Date:** July 07, 2022 01:30 PM

**District:** DISTRICT 2

**Contract Number:** 3930

**Estimate Range:** R19 \$1,550,000.01 to \$1,850,000

**Location:** SR 659

**Description:** mill and fill

**Project No(s):** SPSR-0659(004)

**Project Funding:** STATE

| Seq# | Item Number | Unit of Measure | Quantity   | Description  |
|------|-------------|-----------------|------------|--|
| 1    | 2020925     | EACH            | 13.000     | REMOVAL OF PULL BOX  |
| 2    | 2020935     | CUYD            | 20.000     | REMOVAL OF COMPOSITE SURFACE                               |
| 3    | 2020955     | LINFT           | 16.000     | REMOVAL OF BITUMINOUS SHOULDER DIKE                        |
| 4    | 2020990     | SQYD            | 56,867.000 | REMOVAL OF BITUMINOUS SURFACE (COLD MILLING)               |
| 5    | 2020995     | SQYD            | 2,843.000  | REMOVAL OF BITUMINOUS SURFACE (MISCELLANEOUS COLD MILLING) |
| 6    | 3020140     | CUYD            | 15.000     | TYPE 1 CLASS B AGGREGATE BASE                              |
| 7    | 4020130     | LINFT           | 16.000     | PLANTMIX BITUMINOUS SHOULDER DIKES                         |
| 8    | 4020180     | TON             | 9,278.000  | PLANTMIX SURFACING (TYPE 2) (WET)                          |
| 9    | 4030110     | TON             | 2,182.000  | PLANTMIX OPEN-GRADED SURFACING (3/8-INCH) (WET)            |
| 10   | 6090260     | EACH            | 9.000      | ADJUSTING MANHOLE COVERS (METHOD B)                        |
| 11   | 6090570     | EACH            | 1.000      | ADJUSTING COVERS (SPECIAL)                                 |
| 12   | 6090600     | EACH            | 3.000      | ADJUSTING VALVE COVERS (METHOD B)                          |
| 13   | 6130880     | LINFT           | 19.000     | CLASS AA CONCRETE CURB AND GUTTER (TYPE 7) (MODIFIED)      |
| 14   | 6180250     | LINFT           | 84.000     | REMOVE AND RESET GUARDRAIL                                 |
| 15   | 6230230     | EACH            | 13.000     | NO. 5 PULL BOX   |
| 16   | 6230775     | EACH            | 96.000     | LOOP DETECTOR  |
| 17   | 6231820     | LINFT           | 120.000    | 3-INCH CONDUIT   |

Contract Number: 3930

Page 1 of 2

# Nevada Department of Transportation

## Estimate of Quantities Report

Quantities shown are approximate and subject to change

---

| <b>Seq#</b> | <b>Item Number</b> | <b>Unit of Measure</b> | <b>Quantity</b> | <b>Description</b>                                   |
|-------------|--------------------|------------------------|-----------------|--|
| 18          | 6240130            | FA                     | 1.000           | UNIFORMED TRAFFIC CONTROL OFFICER                    |
| 19          | 6240140            | DAY                    | 30.000          | TRAFFIC CONTROL SUPERVISOR                           |
| 20          | 6250490            | LS                     | 1.000           | RENT TRAFFIC CONTROL DEVICES                         |
| 21          | 6280120            | LS                     | 1.000           | MOBILIZATION   |
| 22          | 6320800            | SQFT                   | 1,120.000       | EPOXY PAVEMENT STRIPING (VARIES)                     |
| 23          | 6320830            | LINFT                  | 633.000         | EPOXY PAVEMENT STRIPING (8-INCH DOTTED WHITE)        |
| 24          | 6320870            | MILE                   | 2.960           | EPOXY PAVEMENT STRIPING (BROKEN WHITE)               |
| 25          | 6320920            | MILE                   | 1.580           | EPOXY PAVEMENT STRIPING (6-INCH SOLID WHITE)         |
| 26          | 6320930            | LINFT                  | 2,640.000       | EPOXY PAVEMENT STRIPING (8-INCH SOLID WHITE)         |
| 27          | 6320950            | LINFT                  | 68.000          | EPOXY PAVEMENT STRIPING (12-INCH SOLID WHITE)        |
| 28          | 6321010            | MILE                   | 1.480           | EPOXY PAVEMENT STRIPING (SOLID YELLOW)               |
| 29          | 6341030            | LINFT                  | 1,071.000       | THERMOPLASTIC PAVEMENT MARKING (24-INCH SOLID WHITE) |
| 30          | 6341060            | SQFT                   | 907.000         | THERMOPLASTIC PAVEMENT MARKING (VARIES)              |
| 31          | 6370110            | LS                     | 1.000           | TEMPORARY POLLUTION CONTROL                          |

# NEVADA DEPARTMENT OF TRANSPORTATION

## INVITATION TO BID

### Contract No. 3930

SR 659, in Washoe County

Mill and Fill

Engineer's Estimate: R19 (\$1,550,000.01 to \$1,850,000.00)

**State Bidder's Preference applies to this project**

This project has a Small Business Enterprise (SBE) Goal of 4.50%.



For questions regarding bid preparation, obtaining plans, specifications and project documents, please contact:

NDOT Contract Services  
1263 South Stewart Street, Room 101  
Carson City, NV 89712  
Phone: (775) 888-7070  
Hours: 8:00am – 5:00pm Monday to Friday

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## **BID PREPARATION**

***The bid opening date and time for this project (unless modified by an addenda) is July 7, 2022, 1:30:00 PM, PDT. It is the responsibility of the Contractor to ensure their bid, subcontractor reports and any supporting documentation is received by the Nevada Department of Transportation (NDOT) via the Electronic Bidding System (iCX) no later than the submittal deadlines. NDOT will not be responsible for bids and reports not completed and/or successfully transmitted by the deadline for submittal.***

***The right is reserved to reject any or all proposals, or to accept the proposal deemed best for the interests of the State of Nevada.***

***All bids are subject to NDOT verification.***

1. Contractors and subcontractors are required to hold a valid Contractor's license of a class corresponding to the work to be done, in accordance with the provisions of NRS 624, prior to submitting a bid.
2. All bidders must be prequalified in accordance with the provisions of NRS 408, and the prequalification statement must be current through the date the contract is awarded.
3. Bidders are responsible to comply with all State, County and Local laws, statutes, policies and procedures required to perform the scope of work. All bidders must comply with the requirements of doing business in Nevada, as directed by the Office of the Secretary of State (including a State Business License), and any other County or Local agencies as may be applicable.
4. All Contractors doing business in Nevada must have a Federal Tax Identification Number.
5. Carefully review the accompanying plans and specifications for this contract. Any questions regarding the project must be submitted in writing via the Department's website at <http://www.nevadadot.com/doing-business/contractors-construction>. Questions should be submitted before 4:00 pm Pacific Time 10 days prior to the scheduled bid opening to ensure an answer. Questions submitted after the deadline will be answered at the discretion of the Project Manager.
6. All proposals must be accompanied by a proposal guaranty (bid bond or other guaranty) made unconditionally payable to the Nevada Department of Transportation in the amount equal to 5% of total bid amount. The guaranty may be cash, cashier's check, certified check, money order, bank draft, an undertaking executed by a corporate surety company authorized to do business in the State of Nevada, an electronic bid bond validated with Surety 2000 or SurePath, or any other guaranty that may be especially approved by the Department. Such proposal guaranty is to be forfeited to the Department should the bidder to whom the contract is awarded fail to enter into the contract within 20 days of the award of the contract.
7. No bids can be accepted after the time set for opening bids. Electronic bids cannot be submitted to the vault after the bid opening time. NDOT cannot make any exceptions due to bidder's internet services or any other emergency situations.
8. The successful bidder will enter into a contract with NDOT using the standard contract form, a draft of which is included in this document.

## **STATE BIDDER'S PREFERENCE**

This is a State funded project. Nevada-owned businesses meeting the qualifications of NRS 338.1389 and holding a valid Certificate of Eligibility issued by the Nevada State Contractor's Board are eligible to receive a 5% bidder's preference in the evaluation of their proposal for ranking purposes. A Uniform Affidavit of Certification for Preference Bidding (Bidder's Preference Affidavit) must be acknowledged via the NDOT Electronic Bidding system no later than 2 hours after the bid opening. Bidders must also upload their Certificate of Eligibility via the NDOT Electronic Bidding System (iCX).

## **DOCUMENTS INCORPORATED INTO THE CONTRACT**

1. The Qualified Products List (QPL) dated March 14,2022, shall be used on this contract.

## **DOCUMENTS TO ASSIST IN BID PREPARATION**

1. Transportation Management Plans (TMP) \* (see disclaimer below)
2. Project Workforce (Apprenticeship Utilization Act of 2019):
  - a. AUA Project Workforce Checklist (form attached)
  - b. AUA Request for Waiver (form attached)also available at:  
<https://www.nevadadot.com/doing-business/external-civil-rights/contract-compliance>
3. Other files \* (see disclaimer below)
  - a. Informational Purposes Only Documents
  - b. Flood Control
4. The FHWA Publications "Manual on Uniform Traffic Control Devices, 2009 (MUTCD)" and the "Standard Highway Signs" may be purchased using links provided at: <http://mutcd.fhwa.dot.gov/ser-pubs.htm>.
5. The "Rental Rate Blue Book" may be purchased from Equipment Watch at: <https://equipmentwatch.com> or by calling 1-800-669-3282.
6. The Nevada Sign Supplement, 2006, is available at:  
<http://www.nevadadot.com/home/showdocument?id=4462>
7. The following is a list of documents available for purchase from NDOT Contract Services:

|  |         |
|--|---------|
| • Standard Specifications for Road and Bridge Construction, 2014**                 | \$20.00 |
| • Digital Elevation Models (Disclaimer and Agreement required at time of purchase) | \$10.00 |
| • Standard Plans for Road and Bridge Construction, 2017**                          | \$15.00 |
| • Construction Stakeout Manual   | \$ 7.00 |
| • Construction Site Best Management Practices Manual (BMPs)                        | \$30.00 |

\*\*also available at no charge in pdf format at:  
<http://www.nevadadot.com/doing-business/about-ndot/ndot-divisions/engineering/design/standard-specifications-and-plans>
8. Employment lists may be obtained from the Nevada Department of Employment, Training and Rehabilitation.

## **\*DISCLAIMER**

If available, additional electronic engineering data—plans, profiles, maps, digital elevation models, images, and their associated cartographic or survey information—compiled for specific Nevada Department of Transportation (NDOT) applications only, are available for download for the above referenced contract. Documents or links can be found on the Contract Documents tab on the website here: <https://www.nevadadot.com/doing-business/contractors-construction/contract-services/bid-letting>. They are for informational purposes only.

This digital information is furnished by NDOT and/or its representatives as a courtesy and is accepted or used by the recipient with the understanding that the State of Nevada and/or its representatives make no warranties, expressed or implied, concerning the accuracy, completeness, reliability or suitability of this data, of its constituent parts, or of any supporting data. Recompilation of the raw data provided, exceeding the Horizontal/Vertical metadata accuracies and portraying it as a separate dataset or improved dataset, is prohibited.

Further, the reselling of this data is prohibited. Should one make use of this information in any submittal report, or other document, such submittal, report or other document shall bear the stamp of a professional engineer licensed to practice in the State of Nevada, certifying said information is accurate and signifying the assumption of any and all risk and liability with respect to the provision and use of the information.

Furthermore, the recipient agrees that it will make no claim against NDOT and/or its representatives arising from the related use of the information whether sounding in contract, tort or any other legal theory, and expressly waives any and all such claims.

The recipient shall indemnify NDOT and/or its representatives and it shall be liable for all costs and attorney's fees incurred in the defense of and in securing dismissal of such claim whether brought by the undersigned company or any entity to whom the undersigned company sold or otherwise provided this data.

## **AFFIRMATIVE ACTION**

The Nevada Department of Transportation (NDOT) hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability or national origin in consideration for an award.

NDOT hereby notifies all bidders that it will not discriminate in the award of this contract on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability or national origin in consideration for an award.

NDOT will on its own initiative, take affirmative action, including the imposition of contract sanctions and the initiation of appropriate legal proceedings under any applicable State or Federal law to achieve equal employment opportunity on all Projects and will actively cooperate with the Federal Highway Administration in all investigations and enforcement actions undertaken by the Federal Highway Administration. In conjunction with the above statement, the Department will not issue plans to an irresponsible bidder. Subsection (B) of Section 112 of Title 23 United States Code has been amended by adding at the end thereof, the following: "Contracts for the construction of each project shall be awarded only on the basis of the lowest responsive bid submitted by a bidder meeting established criteria of responsibility."

NDOT will, in addition to the other Equal Employment Opportunity provisions which are enumerated elsewhere in the Special Provisions, require an affirmative action program from each Contractor who holds an individual contract or subcontract in excess of \$10,000.00. This program, which included certain specific items relative to this project, can be submitted on the Department-furnished form.

The following requirements apply to the person, firm, association or corporation in order for the bid to be considered.

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE  
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

FEMALE PARTICIPATION STATEWIDE

| <b>Time Period</b>         | <b>Goal</b> |
|----------------------------|-------------|
| Until further notice ..... | 6.9%        |

MINORITY PARTICIPATION STATEWIDE

|  |       |
|--|-------|
| SMSA Counties, NV Clark .....                            | 13.9% |
| 163 Las Vegas, NV  |       |
| 4120 Las Vegas, NV                                       |       |
| Non-SMSA Counties, NV Esmeralda, NV Lincoln, NV Nye..... | 12.6% |
| SMSA Counties, NV Washoe .....                           | 8.2%  |
| 164 Reno, NV   |       |
| 6720 Reno, NV  |       |
| Non-SMSA Counties, NV Churchill, NV Douglas, .....       | 9.2%  |
| NV Elko, NV Eureka, NV Humboldt, NV Lander,              |       |
| NV Lyon, NV Mineral, NV Pershing, NV Storey,             |       |
| NV White Pine, NV Carson City                            |       |

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR part 60-4. Compliance with the goals will be measured against the total work hours performed.

The Contractor shall provide written notification to the Director of the Nevada Department of Transportation and the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to race, color, religion, sex, sexual orientation, gender identity or expression, age, disability or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

- (2) The contractor will, in all solicitations or advancements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity or expression, age, disability or national origin.
- (3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The contractor will comply with all provisions of Executive Order No. 11246 of Sept. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of Sept. 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States." [Sec. 202 amended by EO 11375 of Oct. 13, 1967, 32 FR 14303, 3 CFR, 1966-1970 Comp., p. 684, EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230, EO 13672 of July 21, 2014, 79 FR 42971].

The Contractor shall take such action with respect to any subcontract or procurement as NDOT or the FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance: provided, however, that, in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request NDOT to enter into such litigation to protect the interests of NDOT, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

## **SMALL BUSINESS ENTERPRISES**

This project is subject to NRS 408.32872 to NRS 408.38728. The Contractor agrees to ensure that Small Business Enterprises, as defined in NRS 408.32872 to NRS 408.38728, have an equal opportunity to participate in the performance of the contracts and subcontracts. The requirements for compliance are contained in Subsections 102.03, 102.16, and 103.08 of the Standard Specifications and in the Additional Contract Provisions appended to the Special Provisions.

Bidders are required to submit SBE information via the NDOT Electronic Bidding System (iCX) at the time of bid submittal. Good Faith Effort (GFE) supplemental documentation, if applicable, and SBE confirmation Documentation must be submitted to NDOT no later than 5:00 pm on the next business day following the bid opening.

Note: In addition to Nevada Certified Small Business Enterprises (SBE), All Nevada Certified Disadvantaged Business Enterprises (DBE) are considered an SBE.

## **OSHA/MSDS REQUIREMENTS**

In compliance with the multi-employer worksite provisions of the Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard 29 CFR Part 1910.1200 (e) (2) the Contractor is required to provide current Material Safety Data Sheets (MSDS) for all hazardous chemicals [as defined in 29 CFR Part 1910.1200 (c)] to be used by the Contractor in this contract. It will be the Contractor's responsibility to submit a list of all hazardous chemicals to be used on this contract 7 days in advance of the pre-construction conference. MSDS must be submitted prior to the beginning of any phase of work which requires the use of the hazardous chemical. An MSDS shall be submitted prior to use of the hazardous chemical on the contract, for any additional hazardous material not covered by the original list.

## **CLEAN WATER ACT**

The bidder's attention is directed to Sections 401 and 404 of the Clean Water Act (CWA). This contract must be constructed under a United States Army Corps of Engineers nationwide permit obtained by the Department subject to conditions outlined in Subsection 108.04. This contract must be constructed pursuant to the Nevada Division of Environmental Protection's 401 Water Quality Certification obtained by the Department subject to conditions outlined in Section 637. Compliance with all rules, regulations, special stipulations and laws pertaining to the CWA shall be the responsibility of the Contractor and the cost of said compliance shall not be measured or paid for directly, but the cost thereof shall be considered in the contract unit price bid for other items of work.

If, in the duration of this contract, any change to the project is considered, the party proposing the change shall be responsible for (1) insuring that the project continues in compliance with Sections 401 and 404 of the CWA and (2) any resultant delays and/or increased costs.

## **CLEAN AIR REQUIREMENTS**

This project is located in Washoe County, Nevada. The bidder shall contact the Washoe County District Health Department (Air Quality Division) regarding special considerations concerning air quality requirements in the county.

Compliance with all rules, regulations, special stipulations, and laws pertaining to air quality shall be the responsibility of the Contractor and the cost of said compliance will be measured and paid for as specified in Section 637. Contractor penalties associated with non-compliance of these rules, regulations, special stipulations and laws shall not be sufficient cause for increases in costs or time to the contract.

## **BID PROTESTS**

### **1. Applicability**

This section sets forth the exclusive protest remedies available with respect to this Invitation to Bid. These provisions prescribe the exclusive procedures for protests regarding:

- a) a bidder protesting the determination that the apparent-low bid is responsive to the requirements of this Invitation to Bid and related specifications, or as to whether the apparent-low bidder is responsible, as applicable.
- b) if the Department provides notice of its intention to award a bid to the apparent second-low bidder, the determination that the apparent second-low bid is responsive to the requirements of this Invitation to Bid and related specifications, or as to whether the apparent second-low bidder is responsible, as applicable.
- c) a bidder's own bid being deemed non-responsive by the Department

### **2. Deadlines for Protests**

Protests concerning the issues described in subsection 1(a) must be received by the Department as soon as the basis for the protest is known, but no later than 5:00pm seven (7) calendar days after the announcement of the apparent-low bidder is made. Announcement of the apparent-low bidder will be made by either:

- a) the Unofficial Bid Results being made publicly available, or
- b) direct notification to all bidders, or

- c) in the case of a change to the apparent-low bidder, the updated/revised Unofficial Bid Results being made publicly available.

Protests concerning the issues described in subsection 1(b) must be received by the Department as soon as the basis for the protest is known, but no later than 5:00pm five (5) calendar days after the publishing of a notice of intent to award to the apparent second-low bidder. Announcement of the Department's intention to award to the apparent second-low bidder will be made by either:

- a) the notice of such intention being made publicly available, or
- b) direct notification to all bidders.

Protests concerning the issues described in subsection 1(c) must be received by the Department as soon as the basis for the protest is known, but no later than 5:00pm five (5) calendar days after bidder's receipt of notice that their bid is non-responsive.

Notices under this section will be deemed to be received by the bidder either:

- a) on the day, they are emailed to the person who submitted the bid; or
- b) two (2) calendar days after they are sent via regular mail to the address on file with the Department; or
- c) on the day, they are made publicly available; whichever is earlier.

### 3. Content of Protests

Protests filed in accordance with this section must completely and succinctly state the grounds for protest, its legal authority, and its factual basis, and include all factual and legal documentation in sufficient detail to establish the merits of the protest.

All protests must contain the following affirmation:

The undersigned does hereby affirm that the preceding Protest is submitted in accordance with the relevant protest requirements and that foregoing facts cited in this Protest are true and correct to the best of my knowledge.

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

### 4. Filing of Protest

The notice of protest must be clearly marked as a "Notice of Protest" and submitted to:

Notice of Protest  
Project/Bid Number \_\_\_\_\_  
Nevada Department of Transportation  
Attn: Administrative Services Division Chief  
1263 S Stewart St. #101  
Carson City, NV 89712

A courtesy copy may be sent via email to [NDOTContractServices@dot.nv.gov](mailto:NDOTContractServices@dot.nv.gov).

### 5. Burden of Proof

The protestant has the burden of proving their protest by clear and convincing evidence. The Department may, in its sole discretion, discuss the protest with the protestant and other bidders. No hearing will be held on the protest. The protest will be decided on the basis of written submissions.

### 6. Decision on Protests

The Department Director, or his/her designee, will issue a written decision regarding each protest within thirty (30) calendar days after the receipt of the detailed statement of protest submitted under this section. The decision by the Department Director, or his/her designee, will be final. The written decision of the Department Director, or his/her designee, will be final, binding, and not subject to appeal.

#### **7. Protestant's Payment of Costs**

If a protest is denied, the bidder filing the protest may be liable for the Department's costs reasonably incurred to defend against or resolve the protest, including legal and consultant fees and costs and any unavoidable damages sustained by the Department as a consequence of the protest.

At the sole discretion of the Department, a bidder filing a notice of protest may be required to submit to the Department, at the time the notice of protest is filed, evidence of a bond posted with a good and solvent surety authorized to do business in Nevada or submit other security, in a form approved by the Department. If a bond or other security is required, the Department will hold such bond or other security until a determination is made on the protest. A bond posted, or other security submitted with a notice of protest must be in an amount equal to:

- (a) Twenty-five (25) percent of the total value of the bid submitted by the bidder filing the notice of protest;  
or
- (b) Two hundred fifty thousand dollars (\$250,000); whichever is less.

If the protest is upheld, the bond posted, or other security submitted with the notice of protest will be returned to the person who posted the bond or submitted the security. If the protest is rejected, the Department may make a claim against the bond or other security in an amount equal to the expenses incurred by the Department because of the unsuccessful protest. Any money remaining after the claim has been satisfied will be returned to the person who posted the bond or submitted the security.

#### **8. Rights and Obligations of Bidders**

Each bidder, by submitting their bid, expressly recognizes and agrees to the limitation on its rights to protest provided in this section, and expressly waives all other rights and remedies that may be available to the bidder under Federal and State laws. These provisions are included in the Invitation to Bid expressly in consideration for such waiver and agreement by the bidders. If bidder disregards, disputes, or does not follow the exclusive protest remedies provided in this section, it shall indemnify and hold the Department and its officers, employees, agents, and consultants harmless from and against all liabilities, fees, and costs, including legal and consultant fees and costs and damages incurred or suffered as a result of such bidder's actions. Each bidder, by submitting a bid, shall be deemed to have irrevocably and unconditionally agreed to this indemnity obligation.

A notice of protest filed in accordance with the provisions of this section operates as a stay of action in relation to the awarding or execution of any contract until a determination on the protest is made by the Department. A person who makes an unsuccessful bid may not seek any type of judicial intervention until the Department has made a determination on the protest and awarded the contract.

Neither the Department nor any authorized representative of the Department is liable for any costs, expenses, attorney's fees, loss of income or other damages sustained by a person who makes a bid, whether or not the person files a notice of protest.

## **DEPARTMENT DISCLAIMERS**

This Invitation to Bid does not commit the Department to enter into any contract. The Department assumes no obligations, responsibilities, or liabilities, fiscal or otherwise, to reimburse all or part of the costs incurred or alleged to have been incurred by parties considering a response to and/or responding to this Invitation to Bid. All of such costs shall be borne solely by each bidder.

In no event shall the Department be bound by, or liable for, any obligations with respect to the Project until such time (if at all) as the contract, if any, in form and substance satisfactory to the Department, has been authorized and executed by the Department and, then, only to the extent set forth therein. In submitting a bid in response to this Invitation to Bid the bidder is specifically acknowledging these disclaimers.

# **BID CHECKLIST**

To submit a bid, the bidder must have access to iCX software on the web. For information on obtaining and using iCX, contact NDOT Contract Services at [NDOTContractservices@dot.nv.gov](mailto:NDOTContractservices@dot.nv.gov) or via phone (775) 888-7070, option 3.

- Enter Bid Bond Information:
  - a. Enter and validate an electronic bid bond number in Electronic Bidding System (iCX). Must be Surety2000 or SurePath if submitting electronically.
  - b. **Alternatively, submit a paper proposal guaranty to NDOT Contract Services, 1263 S. Stewart St., Carson City, NV 89712, prior to bid opening time.**
    - i. In the Electronic Bidding System (iCX), enter proposal guaranty surety type and then bond or check #, then select "Validate Bond".
    - ii. The status will change to "Validated", HOWEVER, NDOT MUST STILL RECEIVE YOUR PAPER GUARANTY PRIOR TO BID OPENING.
- Complete the Suspension and Debarment certification via the NDOT Electronic Bidding System (iCX).
- Submit the bid to the secure vault. All subcontractor and supplier information listed, certifications acknowledged, and any additional documentation uploaded before bid submission will automatically be submitted with the bid.
- Acknowledge the Uniform Affidavit of Certification for Preference Bidding (Bidder's Preference Affidavit) via the NDOT Electronic Bidding system no later than 2 hours after the bid opening. Bidders must also upload their Certificate of Eligibility via the NDOT Electronic Bidding System (iCX). All Bidder's Preference documentation completed before bid submission will automatically be submitted with the bid.
- Submit any updated subcontractor and supplier information that is listed after bid submission. Subcontractors exceeding 1% of the contract (or \$50,000.00, whichever is greater) or subcontractors which will exceed \$250,000.00, must be submitted within **2 hours after bid opening**. A list of all subcontractors and suppliers used and not used must be submitted by **5:00 pm the next business day following the bid opening**. All subcontractor and supplier information listed before bid submission will automatically be submitted with the bid.
- All bidders must upload SBE confirmation letters, via the Electronic Bidding System (iCX) and any Good Faith Effort (GFE) if applicable, by **5:00 pm the next business day following the bid opening**. All confirmation letters and GFE uploaded before bid submission will automatically be submitted with the bid.
- Project Workforce Information:**
  - a. **Prior to bid opening**, the prime Contractor shall upload a completed Project Workforce Checklist, provided by the Department, into the Department's Electronic Bidding System (iCX), in the Good Faith Effort section, until further notice (form attached).
  - b. **By 5:00 pm the next business day following bid-opening**, the apparent 3 lowest bidders shall upload a completed Project Workforce Checklist for all named subcontractors into the Department's Electronic Bidding System (iCX), in the Good Faith Effort section, until further notice (form attached).
  - c. **Within 10 days of bid-opening**, the apparent low bidder shall submit a Request for Waiver form, provided by the Department, for the prime Contractor and all named subcontractors. All supporting documentation for waivers, shall be submitted with the Request for Waiver form. The Request for Waiver form and supporting documentation shall be sent via email, fax or delivered to the Department's Contract Compliance Office, [ContractComplianceProjects@dot.nv.gov](mailto:ContractComplianceProjects@dot.nv.gov) . If waivers are not needed, please indicate such on the Request for Waiver form, and submit as directed above (form attached).

A request for waiver may be submitted for one of the following:

- i. No Registered Apprentice Programs exist for the craft/type of work required by the project.
- ii. A request of Apprentices was denied, or not acted upon with 5 business days of submission.
- iii. The project required the performance of uniquely complex or hazardous work.

**Failure to submit the workforce/apprentice utilization forms and supporting documentation described above, within the required time, may deem the bid non-responsive.**

**NEVADA DEPARTMENT OF TRANSPORTATION**  
**Project Workforce Checklist**  
**For Compliance with the Nevada Apprenticeship Utilization Act, 2019**

Contract No.: \_\_\_\_\_ Contractor/Subcontractor: \_\_\_\_\_

| Craft/Trade  | More than 3 Employees Anticipated?  | Anticipate Needing Waiver?                               |
|--|---|--|
| <b>Air Balance Technician</b>  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Alarm Installer</b> (see also Electrician)  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Boilermaker</b>   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Bricklayer</b> , can also include tile setter, terrazzo workers and marble masons.  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Carpenter</b> , can also include cement masons, floor coverer, millwright and piledriver (non-equipment), plasterers and terrazzo workers.  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Electrician</b> includes communication technician, line, neon sign and wireman. Can also include alarm installer.   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Elevator Constructor</b>  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Glazier</b> (see also Painters and Allied Trades)   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Hod Carrier</b> (see also Laborers) includes brick-mason tender and plaster tender.   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Iron Worker</b> can also include fence erectors (steel/iron)  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Laborer</b> includes asbestos abatement, fence erector (non-steel/iron), flag person, highway striping and traffic barrier erector. Can also include cement masons, hod carrier brick mason tender and plaster tender | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Lubrication and Service Engineer</b>  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Mason</b> , can also include cement mason, plasterer, tile setter, terrazzo workers and marble masons   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Mechanical Insulator</b>  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Millwright</b> (see also carpenter)   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Operating Engineer</b> , can also include equipment greaser, piledriver, soils and material tester, steel fabricator/erector (with equipment), surveyor (non-licensed) and well driller.                              | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Painters and Allied Trades</b> , can also include glaziers, floor coverers, and tapers.   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Plumber/Pipefitter</b>  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Refrigeration</b>   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Roofer</b> (not sheet metal)  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Sheet Metal Worker</b> , can also include air balance technician.   | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Sprinkler Fitter</b>  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Truck Driver</b>  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <b>Well Driller</b> (see also Operating Engineer)  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |

I affirm I am fully authorized to sign on behalf of the contractor/subcontractor listed above, and that the information provided is true and correct to the best of my knowledge. Additionally, I acknowledge any changes to the anticipated workforce, which may have an impact on compliance with the Nevada Apprenticeship Utilization Act, 2019, will require the submittal of a revised form within five (5) calendar days of the change.

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

Name and Title: \_\_\_\_\_

Nevada Department of Transportation  
 Contract Compliance Office  
 1263 South Stewart Street  
 Carson City, NV 89712

Phone: (775) 888-7497  
 Fax: (775) 888-7235  
 contractcomplianceprojects@dot.nv.gov

Rev. 02/2020

**NEVADA DEPARTMENT OF TRANSPORTATION**  
**Request for Waiver**  
**For Compliance with the Nevada Apprenticeship Utilization Act, 2019**

Contract No.: \_\_\_\_\_ Contractor/Subcontractor: \_\_\_\_\_

Contact: \_\_\_\_\_ License Number: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ e-mail: \_\_\_\_\_

**No waivers needed for this contractor/subcontractor in any crafts/trades.**

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Waiver needed for the following craft(s)/trade(s) \_\_\_\_\_

as there are no apprentices available from an Apprenticeship Program registered by the Nevada State Apprenticeship Council within the jurisdiction where the public work is to be completed. Please describe why an Apprentice is not available or cannot be provided:

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

Waiver needed for the following craft(s)/trade(s) \_\_\_\_\_

as the contractor/subcontractor listed above requested Apprentices from a registered Apprenticeship Program and the request has been denied or not approved within 5 business days. Please describe why an Apprentice is not available or cannot be provided:

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

Waiver needed for the following craft(s)/trade(s) \_\_\_\_\_

as the contractor/subcontractor is required to perform uniquely complex or hazardous tasks on the project, as described below, that require the skill and expertise of a journeyman:

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

**Please attach all additional documentation/evidence needed to support the request for waiver.**

I affirm I am fully authorized to sign on behalf of the contractor/subcontractor listed above, and that the information provided is true and correct to the best of my knowledge.

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

Name and Title: \_\_\_\_\_

Nevada Department of Transportation  
Contract Compliance Office  
1263 South Stewart Street  
Carson City, NV 89712

Phone: (775) 888-7497  
Fax: (775) 888-7235  
contractcomplianceprojects@dot.nv.gov

# STATE OF NEVADA

STEVE SISOLAK  
GOVERNOR

TERRY REYNOLDS  
DIRECTOR

SHANNON M. CHAMBERS  
LABOR COMMISSIONER



OFFICE OF THE LABOR COMMISSIONER  
3300 WEST SAHARA AVENUE, SUITE 225  
LAS VEGAS, NEVADA 89102  
PHONE: (702) 486-2650  
FAX (702) 486-2660

OFFICE OF THE LABOR COMMISSIONER  
1818 COLLEGE PARKWAY, SUITE 102  
CARSON CITY, NV 89706  
PHONE: (775) 684-1890  
FAX (775) 687-6409

## 2022 PREVAILING WAGE RATES WASHOE COUNTY

**DATE OF DETERMINATION: October 1, 2021**

**APPLICABLE FOR PUBLIC WORKS PROJECTS OVER \$100,000 BID/AWARDED  
OCTOBER 1, 2021 THROUGH SEPTEMBER 30, 2022**

Pursuant to Nevada Revised Statutes (NRS) section 338.030(9)(a), "If the contract for a public work: (a) Is to be awarded pursuant to a competitive bidding process, the prevailing wages in effect at the time of the opening of the bids for a contract for a public work must be paid until the completion or termination of the contract or for the 36 months immediately following the date on which the bids were opened, whichever is earlier." For contracts not awarded pursuant to competitive bidding, please see NRS section 338.030(9)(b). However, if a project exceeds 36 months new wage rates may apply pursuant to NRS section 338.030(9)(10). Prevailing Wage Rates may be adjusted based on Collective Bargaining Agreements (CBA's) and adjustments to those agreements. (See NRS 338.030)

**PREVAILING WAGE DETERMINATIONS** - NRS 338.030 subsection 7, the wages so determined must be:

- (a) Issued by the Labor Commissioner on October 1 of the odd-numbered year in which the survey was conducted and, except as otherwise provided in subsection 8, remain effective for 2 years after that date; and
- (b) Made available by the Labor Commissioner to any public body which awards a contract for any public work.

Senate Bill 243 passed during the 80th Nevada Legislative Session (2019) and set forth in NRS section 338.025, now requires the Labor Commissioner to calculate the Prevailing Wage Rates by region. NRS section 338.025 Prevailing wage regions. For the purpose of determining the prevailing rate of wages pursuant to NRS section 338.030, four prevailing wage regions are hereby established in this State as follows:

1. The Washoe Prevailing Wage Region consisting of Washoe County;
2. The Northern Rural Prevailing Wage Region consisting of Carson City and the counties of Churchill, Douglas, Elko, Eureka, Humboldt, Lander, Lyon, Mineral, Storey, Pershing and White Pine;
3. The Clark Prevailing Wage Region consisting of Clark County; and
4. The Southern Rural Prevailing Wage Region consisting of the counties of Esmeralda, Lincoln and Nye.

**OBJECTIONS TO PREVAILING WAGE DETERMINATIONS** – NRS section 338.030 subsection 2. Objections to the Prevailing Wage Determinations must be submitted within 30 days after the Prevailing Wage Determinations are issued.

Pursuant to NRS section 338.030 subsection 8, the Labor Commissioner will review the prevailing wage rates in each even-numbered year to determine if adjustments should be made.

**As Amendments/Revisions are made to the wage rates, they will be posted on the website for each respective Region. Please review regularly for any Amendments/Revisions that are posted or contact our offices directly for further assistance.**

|   |    |
|---|----|
| <a href="#">Air Balance Technician</a> .....                                    | 4  |
| <a href="#">Alarm Installer</a> .....   | 5  |
| <a href="#">Boilermaker</a> .....   | 6  |
| <a href="#">Bricklayer</a> .....  | 7  |
| <a href="#">Carpenter</a> .....   | 8  |
| <a href="#">Cement Mason</a> .....  | 9  |
| <a href="#">Electrician – Communication Technician</a> .....                    | 10 |
| <a href="#">Electrician - Lineman</a> .....                                     | 12 |
| <a href="#">Electrician – Neon Sign</a> .....                                   | 14 |
| <a href="#">Electrician - Wireman</a> .....                                     | 15 |
| <a href="#">Elevator Constructor</a> .....                                      | 16 |
| <a href="#">Fence Erector</a> .....   | 18 |
| <a href="#">Flagperson</a> .....  | 19 |
| <a href="#">Floorcoverer</a> .....  | 20 |
| <a href="#">Glazier</a> .....   | 21 |
| <a href="#">Highway Striper</a> .....   | 22 |
| <a href="#">Hod Carrier-Brick Mason</a> .....                                   | 23 |
| <a href="#">Hod Carrier – Plasterer Tender</a> .....                            | 24 |
| <a href="#">Ironworker</a> .....  | 26 |
| <a href="#">Laborer</a> .....   | 29 |
| <a href="#">Lubrication And Service Engineer (Mobile And Grease Rack)</a> ..... | 46 |
| <a href="#">Mechanical Insulator</a> .....                                      | 31 |
| <a href="#">Millwright</a> .....  | 32 |
| <a href="#">Operating Engineer</a> .....  | 34 |
| <a href="#">Operating Engineer – Steel Fabricator &amp; Erector</a> .....       | 34 |
| <a href="#">Operating Engineer – Piledriver</a> .....                           | 35 |
| <a href="#">Painter</a> .....   | 37 |
| <a href="#">Piledriver (Non-Equipment)</a> .....                                | 39 |
| <a href="#">Plasterer</a> .....   | 40 |
| <a href="#">Plumber/Pipefitter</a> .....  | 41 |
| <a href="#">Refrigeration</a> .....   | 42 |
| <a href="#">Roofer</a> .....  | 43 |
| <a href="#">Sheet Metal Worker</a> .....  | 45 |
| <a href="#">Soils and Material Tester</a> .....                                 | 46 |
| <a href="#">Sprinkler Fitter</a> .....  | 46 |
| <a href="#">Surveyor</a> .....  | 46 |
| <a href="#">Taper</a> .....   | 47 |
| <a href="#">Tile/Terrazzo Worker/Marble Mason Finisher</a> .....                | 49 |
| <a href="#">Tile/Terrazzo Worker/Marble Mason</a> .....                         | 49 |
| <a href="#">Traffic Barrier Erector</a> .....                                   | 51 |
| <a href="#">Truck Driver</a> .....  | 52 |
| <a href="#">Well Driller</a> .....  | 54 |
| <b>Group Classifications</b>  |    |
| <a href="#">Labor Group Classifications</a> .....                               | 55 |
| <a href="#">Operating Engineers</a> .....                                       | 59 |

**NRS section 338.010 subsection (25) “Wages” means:**

- a) The basic hourly rate of pay; and
- b) The amount of pension, health and welfare, vacation and holiday pay, the cost of apprenticeship training or other similar programs or other bona fide fringe benefits which are a benefit to the worker.

**NRS section 338.035 Bona Fide Fringe Benefits** - Discharge of part of obligation of contractor or subcontractor engaged on public work to pay wages by making certain contributions in name of workman. “Bona fide fringe benefit” means a benefit in the form of a contribution that is made not less frequently than monthly to an independent third party pursuant to a fund, plan or program: (a) Which is established for the sole and exclusive benefit of a worker and his or her family and dependents; and (b) For which none of the assets will revert to, or otherwise be credited to, any contributing employer or sponsor of the fund, plan or program. The term includes, without limitation, benefits for a worker that are determined pursuant to a collective bargaining agreement and included in the determination of the prevailing wage by the Labor Commissioner pursuant to NRS section 338.030.

Please see NRS sections 338.010, 338.020, and 338.035 and Nevada Administrative Code (NAC) sections 338.0097 and 338.092 through 338.100 for further details on “Bona fide fringe benefits” and reporting requirements and exceptions.

**Job Descriptions for Recognized Classes of Workers**

Regarding job descriptions for public works projects, please take notice of the following:

1. The job description links have been redacted to include ONLY the scope of work for the craft.
2. Pursuant to NAC section 338.0095(1)(a) - A worker employed on a public work must be paid the applicable prevailing rate of wage for the type of work that the worker actually performs on the public work and in accordance with the recognized class of the worker.
3. The work description for a particular class is not intended to be jurisdictional in scope.
4. Any person who believes that a type of work is not classified, or who otherwise needs clarification pertaining to the recognized classes or job descriptions, shall contact the Labor Commissioner in writing for a determination of the applicable classification and pay rate for a particular type of work.
5. The job descriptions set forth or referenced herein supersede any, and all descriptions previously agreed upon by the Labor Commissioner in any settlement agreements or stipulations arising out of contested matters.
6. The following specific provisions, where applicable, shall prevail over any general provisions of the job descriptions:
  - Amendments to the prevailing wage determinations.
  - Group Classifications and/or descriptions recognized by the Labor Commissioner and included with wage determinations for a particular type of work in a particular county.

**Zone Rates**

The zone rate has been added to each applicable craft.

**Premium Pay** Premium pay for hours worked in excess of a shift of 8 hours or 12 hours, or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

Craft: AIR BALANCE TECHNICIAN (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |       |
|---|-------|
| Air Balance Technician Journeyman.....      | 68.43 |
| Air Balance Technician-Foreman.....         | 72.45 |
| Air Balance Technician-General Foreman..... | 76.47 |

**ADD ZONE RATE**

In addition to AIR BALANCE rates add the applicable amounts per hour, calculated based on a road from the courthouse in Reno, Nevada:

|        |                 |  |
|--------|-----------------|--|
| Zone 1 | 0 to 75 miles   | \$0.00   |
| Zone 2 | 75 to 100 miles | \$5.00   |
| Zone 3 | Over 100 miles  | \$10.00 the employee shall be provided reasonable lodging and meal expenses. |

**ADD PREMIUM PAY**

All hourly rates are subject to Over Time (One and one half 1 ½) of the Regular rate:

1. For all hours worked over Eight (8) Hours in one day or shift.
2. For the first Eight (8) Hours work on Saturday.

All hourly rates are subject to Double Time of the Regular Rate:

1. For all hours worked over Ten (10) Hours in one day or shift.
2. For all hours worked over Eight (8) Hours on Saturday.
3. For all hours worked on Sunday, New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day.

**RECOGNIZED HOLIDAYS**

New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day

**JOB DESCRIPTION:** Excerpt from Sheet Metal Local 26 Collective Bargaining Agreement

(a) manufacture, fabrication, assembling, handling, erection, installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or nonferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air veyor systems, exhaust systems, and air-handling systems regardless of material used including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct lining; (c) testing and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches whether manually drawn or computer assisted used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches; (e) metal roofing; and (f) all other work included in the jurisdictional claims of International Association of Sheet Metal, Air, Rail and Transportation Workers.

Craft: ALARM INSTALLER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Alarm Installer.....32.77

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Installing or testing electrical protective signaling systems used to provide notification of fire, burglary or other irregularities on the premises of the subscriber of the system;
2. Installing of wiring and signaling units;
3. Repairing electrical protective signaling systems
4. Starting up, programming and documenting systems;

Craft: BOILERMAKER (Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

|                          |       |
|--------------------------|-------|
| Boilermaker.....         | 65.94 |
| Boilermaker Foreman..... | 65.94 |
| Boilermaker General..... | 65.94 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Constructing, assembling, maintaining and repairing stationary steam boilers and boiler house auxiliaries;
2. Aligning structures or plate sections to assemble boiler frame tanks or vats;
3. Assisting in the testing of assembled vessels, directing cleaning of boilers and boiler furnaces;
4. Inspecting and repairing boiler fittings, including, without limitation, safety valves, regulators, automatic-control mechanisms, water columns and auxiliary machines.

Craft: BRICKLAYER (Union Rate)  
**Prevailing wage rates include the base rate as well as all applicable fringes**

Bricklayer Journeyman.....46.91  
 Bricklayer Foreman.....48.16

**Add Zone pay**

|      |                   |        |
|------|-------------------|--------|
| Zone | 75 miles and Over | \$8.13 |
|------|-------------------|--------|

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between No, NV Masonry Contractors and LIUNA Local 169

This shall apply to and cover the work of Brick/Block Masonry, Stone Masonry, Artificial Masonry Marble Masonry.

**Craft: CARPENTER (Union Rate)**

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                |       |
|--------------------------------|-------|
| Carpenter Journeyman.....      | 53.16 |
| Carpenter Foreman.....         | 56.52 |
| Carpenter General Foreman..... | 60.22 |

**ADD ZONE RATE**

(Building and Heavy Highway and Dam Construction)

In addition to CARPENTER rates add the applicable amounts per hour, calculated from the Washoe County Courthouse:

|        |                  |   |
|--------|------------------|---|
| Zone 1 | 0 to 75 miles    | \$0.00 (Road miles from the Washoe County Courthouse) |
| Zone 2 | 75 to 150 miles  | \$4.00  |
| Zone 3 | 150 to 300 miles | \$5.00  |
| Zone 4 | Over 300 miles   | \$6.00  |

**ADD PREMIUM PAY**

Any work performed over eight (8) hours per day and on Saturdays shall be compensated at time and one-half (1-1/2x) the appropriate hourly rate. All work performed on Sundays, holidays and over twelve (12) hours in one (1) day shall be compensated at two times (2x) the appropriate hourly rate. In the event a day's work is lost because of severe weather conditions or major mechanical breakdown, work may be performed on a voluntary basis on a Saturday at the straight time hourly rate for eight (8) hours provided the straight time hours worked in one (1) week do not exceed forty (40) hours.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4th of July, Labor Day, Admission's Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION** Excerpt from Southwest Regional Council of Carpenters and Affiliated Local Unions Master Labor Agreement

- (1) All building construction, including but not limited to the construction, erection, alteration, repair, modification, demolition, addition, or improvement in whole or in part of any building structure. All rigging of Carpenters', and Piledrivers' materials.
- (2) All heavy, highway and engineering construction, including but not limited to the construction, improvement, modification and demolition of all or any part of the streets, highways, bridges, viaducts, railroads, tunnels, airports, water supply, irrigation, flood control and draining systems, sewers and sanitation projects, dams, power houses, refineries, aqueducts, canals, river and harbor projects, wharves, docks, breakwaters, jetties, quarrying of breakwaters or rip rap stone or operations incidental to such heavy construction work and whether such work is above or below the water line level.
- (3) The character of such work covered by this Agreement shall include but not be limited to all carpenter, concrete form work, shoring, drywall, metal stud, drywall finishing, plaster, scaffold, modular furniture, trade show work, insulation, acoustical, and lathing work on such construction
- (4) All interior and/or exterior wall finish work, including EIFS and other wet wall finish work.

Craft: CEMENT MASON (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                |       |
|--------------------------------|-------|
| Cement Mason - Journeyman..... | 47.12 |
| Cement Mason - Foreman.....    | 50.57 |

**ADD ZONE RATE**

In addition to CEMENT MASON rates add the applicable amounts per hour, calculated from the Reno Post Office, 50 So. Virginia St., Reno, Nevada:

|        |               |        |
|--------|---------------|--------|
| Zone 1 | 0 to 90 miles | \$0.00 |
| Zone 2 | over 90 miles | \$6.00 |

**ADD PREMIUM PAY**

**OVERTIME** – Any worked performed over eight (8) hours per day shall be compensated at time and one half the hourly rate. All work performed after twelve (12) consecutive hours shall be paid at double the hourly rate. All worked performed on Saturdays shall be compensated at time and one half the hourly rate. All Sunday and Holiday work shall be paid for at double time.

**RECOGNIZED HOLIDAYS**

New Year’s Day, Memorial Day, Independence Day, Labor Day, Admissions Day, Thanksgiving Day and the following Friday following Thanksgiving Day, and Christmas

**JOB DESCRIPTIONS**

1. All building construction, including but not limited to the construction, erection, alteration, repair, modification, demolition, addition, or improvement in whole or in part of any building structure.
2. All heavy, highway and engineering construction, including but not limited to construction, improvement, modification, demolition, of all or any part of streets and highways (including sidewalks, curbs and gutters), bridges, viaducts, rail roads, tunnels, airports, water supply, irrigation, flood control and drainage systems, sewers and sanitation projects, dams, power houses, refineries, aqueducts, canals, river and harbor projects, wharves, docks, breakwaters, jetties, quarrying of breakwater or rip-rap stone, or operation incidental to such heavy construction work.
3. The work to be performed by Cement Masons shall include but not be limited to the following, when tools of the Cement Masons trade are used or required:

Setting screeds, screed pins, curb forms and curb and gutter forms, rodding, spreading and tamping concrete, hand application of curing compounds, applying topping (wet or dry) colors or grits; using Darby and push floats, hand troweling or hand floating; marking edging, brooming or brushing, using base cove or step tools; chipping, and stoning, patching or sacking; dry packing; spreading and finishing gypsum, operating mechanical finishers (concrete) such as Clary, Jackson, Bidwell Bridge Deck Paver or similar types; grinding machines; troweling machines, floating machines powered concrete saws; finishing of epoxy and resin materials, bush hammering and exposed finishes for architectural work.

Operation of skill saw, chain saw, Laser Screed, Laser Level, Curb and Slipform machines, Epoxy Type Injection pumps, stamps or other means of texturing, any new devices, which are beneficial to the construction of or with concrete or related products.

Craft: ELECTRICIAN COMMUNICATION TECHNICIAN (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                               |       |
|-------------------------------|-------|
| Communication Installer.....  | 41.15 |
| Communication Technician..... | 45.78 |
| Senior Technician .....       | 48.87 |

**ADD ZONE RATE**

In addition to Electrician Communication Tech rates add the applicable amounts per hour, calculated from the Washoe County Courthouse:

|        |                   |         |
|--------|-------------------|---------|
| Zone 1 | 0 to 70 miles     | \$0.00  |
| Zone 2 | 70 to 90 miles    | \$8.00  |
| Zone 3 | 90 miles and over | \$10.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For the first eight (8) hours worked on Saturday

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over eight (10) hours in one day or shift.
2. For any hours worked on Sunday
3. For any hours worked on Holidays

**Shift Rates**

1. Swing shift to be paid at seventeen-point three (17.3) percent the regular straight time rate for hours between 4:30 p.m. and 1:00 a.m.
2. Graveyard shift to be paid at thirty-one-point four (33.4) percent the regular straight time rate for hours between 12:30 a.m. and 9:00 a.m.
3. Shifts are established for at least five (5) consecutive days or double the regular straight time rate shall be paid.

\*\*Note – Double the straight time rate is the max rate paid. (No pyramiding of overtime rates)

**JOB DESCRIPTION:**

The work covered by this Agreement shall include the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms and low voltage master clock systems.

- A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS
1. Background-foreground music
  2. Intercom and telephone interconnect systems
  3. Telephone systems
  4. Nurse call systems
  5. Radio page systems
  6. School intercom and sound systems
  7. Burglar alarm systems
  8. Low-voltage

master clock systems 9. Multi-media/multiplex systems 10. Sound and musical entertainment systems  
11. RF Systems 12. Antennas and Wave Guide

B. FIRE ALARM SYSTEMS \* 1. Installation, wire pulling and testing

C. Television and Video Systems 1. Television monitoring and surveillance systems 2. Video security systems 3. Video entertainment systems 4. Video educational systems 5. Microwave transmission systems 6. CATV and CCTV

D. Security Systems 1. Perimeter security systems 2. Vibration sensor systems 3. Card access systems  
4. Access control systems 5. Sonar/Infrared monitoring equipment

E. COMMUNICATION SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS (IN THE SCOPE)  
1. SCADA (Supervisory Control and Data Acquisition) 2. PCM (Pulse Code Modulation) 3. Inventory Control Systems 4. Digital Data Systems 5. Broadband and Baseband and Carriers 6. Point of Sale Systems 4 7. VSAT Data Systems 8. Data Communication Systems 9. RF and Remote-Control Systems 10. Fiber Optic Data Systems

Craft: ELECTRICIAN LINEMAN/GROUNDMAN/HEAVY EQUIPMENT OPERATOR  
(Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                              |       |
|------------------------------|-------|
| Electrician-Groundman.....   | 56.09 |
| Lineman-Journeyman.....      | 81.13 |
| Lineman-Foreman.....         | 87.80 |
| Lineman-General Foreman..... | 94.54 |
| Lineman-Equipment Man.....   | 67.81 |

**ADD ZONE RATE**

Electrician Lineman/Groundman/Heavy Equipment Operator, rates, add the applicable amounts per Day, Road Miles from the Employee's Residence to the Reporting Location:

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**RECOGNIZED HOLIDAYS**

New Year's Day, Martin Luther King Holiday, President's Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:**

Outside, overhead and underground construction and maintenance work on electrical transmission lines, switch yards, substations and distribution systems which shall include:

1. Pole line work (whether built of wood, metal or other material): the digging and back-filling of holes for poles or anchors (by hand or mechanical equipment); the loading or unloading, handling, sorting and moving of materials; the assembly or erection of all materials including the guying, stringing of conductors and fiber optics or other work necessary on through to the ultimate completion of such pole work.

2. Steel or metal structures used for the purpose of carrying electrical wire, conductors, or equipment (this includes transmission towers, outdoor substations, switch racks, or similar electrical structures); the moving of men, tools or equipment; the loading or unloading, handling, sorting and moving of materials; the assembly and erection of all materials used on the job site, including the assembly of the grillage and foundations, on through to the ultimate completion of such structures. Work covered shall include the grounding of all such structures except the bonding of stub-angle to rebar cage; the stringing and installation of wires, cables and insulators or other electrical equipment suspended from structure; also the handling and placing of transformers or O.C.B.'s and other related electrical equipment.

The moving of men, tools or equipment; the loading or unloading, handling, sorting and moving of materials; the assembly of all electrical materials on race-ways such as ducts, shall be performed by workmen under the Agreement. This shall also include CIC (cable in conduit), CC (coillable conduit), the placing of fish wire, the pulling of cables or wires through such race-ways, installing and making up of termination and the splicing of such conductors.

Street lighting systems where such work properly comes under the outside jurisdiction shall be handled in the same manner as pole line construction.

Installing and maintaining the catenary and trolley work and bonding of rails shall be handled in the same manner as pole line, and steel construction.

In connection with all of the above items, it is understood the scope of this Agreement shall include not only new installation work but shall also govern the repair, maintenance or dismantling of such structures, lines or equipment; the handling and operating of all equipment used to transport men, tools and/or materials on the job site as well as the equipment used to move, raise or place materials used in the Outside Branch of the Electrical Industry shall be performed by workmen under this Agreement unless otherwise excluded herein.

Craft: ELECTRICIAN – NEON SIGN  
(Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Electrician Neon Sign Journeyman.....35.92

**ELECTRICIAN-NEON SIGN**, includes but is not limited to:

- 1. Installing, servicing and repairing plastic, neon and illuminated signs;
- 2. Ascending ladders or operating hydraulic or electric hoist to install, service, or examine sign to determine cause of malfunction;
- 3. Wiring, rewiring or removing defective parts and installing new parts using electrician's tools;
- 4. Removing sign or part of sign for repairs, such as structural fabrication, scroll repair, or transformer repair;

Craft: ELECTRICIAN WIREMAN (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                              |       |
|------------------------------|-------|
| Wireman.....                 | 63.45 |
| Wireman-Cable Splicer.....   | 67.82 |
| Wireman Forman.....          | 67.82 |
| Wireman General Foreman..... | 72.20 |

**ADD ZONE RATE**

In addition to ELECTRICIAN-Wireman, rates, add the applicable amounts per hour, calculated from Washoe County Courthouse, Reno Nevada:

|        |                   |         |
|--------|-------------------|---------|
| Zone 1 | 0 to 70 miles     | \$0.00  |
| Zone 2 | 70 to 90 miles    | \$8.00  |
| Zone 3 | 90 miles and over | \$10.00 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For the first eight (8) hours worked on Saturday

Double the regular straight time hourly rate shall be paid for all time:

3. For all hours worked over ten (10) hours in one day or shift.
4. For any hours worked on Sunday
5. For any hours worked on Holidays

**Shift Rates**

1. Swing shift to be paid at seventeen-point three (17.3) percent the regular straight time rate for hours between 4:30 p.m. and 1:00 a.m.
2. Graveyard shift to be paid at thirty-one-point four (33.4) percent the regular straight time rate for hours between 12:30 a.m. and 9:00 a.m.
3. Shifts are established for at least five (5) consecutive days or double the regular straight time rate shall be paid.

\*\*Note – Double the straight time rate is the max rate paid. (No pyramiding of overtime rates)

**RECOGNIZED HOLIDAYS**

New Year’s Day, Memorial Day, Independence Day, Labor Day, Admission Day, Veteran’s Day, Thanksgiving Day, Friday following Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between NECA and Local Union 401, IBEW

All electrical construction, installation, or erection work including fabrication or prefabrication of boxes, brackets, bends and nipples and all electrical maintenance thereon including the final running tests. This shall include the installation and maintenance of temporary wiring and the installation of all electrical lighting, heat and power equipment, installation of all raceway systems, including underground conduits and all supports, underground utility conduits, photovoltaic power generation systems, wind power generation systems and geothermal power generating systems. Further all salvage of electrical work shall be included.

Craft: ELEVATOR CONSTRUCTOR (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |        |
|---|--------|
| Elevator Constructor-Journeyman Mechanic.....           | 113.70 |
| Elevator Constructor-Journeyman Mechanic In Charge..... | 123.43 |

**ADD PREMIUM PAY**

Work performed on Construction Work on Saturdays, Sundays and before and after 30 the regular working day on Monday to Friday, inclusive, shall be classed as overtime, and paid for at double the rate of single time.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement of International Union of Elevator Constructors

The handling and unloading of all equipment coming under the jurisdiction of the Elevator Constructor, from the time such equipment arrives at or near the building site, shall be handled and unloaded by the Elevator Constructors. Mechanical equipment such as a forklift or truck mounted swing boom may be used by the Elevator Constructors. A derrick, crane or material hoist can be used under the supervision of Elevator Constructors to handle and unload the heavy material described in Par. 5(a). Where unusual conditions are expected to exist prior to delivery of equipment at or near the building site in regard to handling and unloading of equipment in the primary or secondary jurisdiction of the local union, the Company shall contact the Local's Business Representative to make appropriate arrangements for the handling and unloading of such equipment. In areas outside the jurisdiction of the local union, the Company shall contact the Regional Director.

(b) The erecting and assembling of all elevator equipment to wit: electric, hydraulic, steam, belt, dumbwaiters, residence elevators, parking garage elevators (such as Bowser, Pigeon Hole, or similar types of elevators), shuttles, compressed air and handpower, automatic people movers, monorails, airport shuttles and like-named devices used in the transportation of people for short distances of travel (less than 5 miles), as well as vertical reciprocating conveyor systems.

(c) It is understood and agreed that the preassembly of all escalators, moving stairways and link belt carriers that may be done in the factory shall include the following:

1. Truss or truss sections with tracks, drive units, machines, handrail drive sheaves, drive chains, skirts on the incline sections but not curved sections, step chains and steps installed and permanently aligned.
2. Balustrade brackets may be shipped attached but not aligned.
3. Setting of all controllers and all wiring and conduit from the controller.

All other work on escalators, moving stairways and link belt carriers shall be performed in the field before or after the truss or truss sections are joined and/or hoisted and placed in permanent position. This includes any and all work not done in the factory. The erecting and assembly of all theater stage and curtain elevator equipment and guides and rigging thereto, organ consoles and orchestra elevators

- (d) All wiring, conduit, and raceways from main line feeder terminals on the controller to other elevator apparatus and operating circuits. Controllers are not to be shipped from the factory with extended wiring attached thereto.
- (e) The erecting of all guide rails.
- (f) The installation of all grating under the control of the Company. The installation of all counterweight screens, overhead work, either wood or iron, and all material used for mounting of elevator apparatus in machine room, overhead or below.
- (g) The drilling of overhead beams for attaching machines, sheaves, kick angles, and all other elevator equipment.
- (h) The setting of all templates.
- (i) All foundations, either of wood or metal, that should take the place of masonry.
- (j) The assembly of all cabs complete.
- (k) The installation of all indicators.
- (l) The erecting of all electrical or mechanical automatic or semi-automatic gates complete.
- (m) The hanging of all automatic or semi-automatic elevator hoistway doors, together with the installation of hangers and tracks.
- (n) The installation of all devices for opening and closing and locking of elevator car and hoistway doors and gates.
- (o) The drilling of doors for mounting of closing devices.
- (p) The drilling of angle supports for mounting of closing devices except one template hole.
- (q) The drilling of sills for sill trips.
- (r) The operating of temporary cars.
- (s) The setting of all elevator pressure open or pit tanks.
- (t) The setting of hydraulic power units (power units include: motor, pump, drive valve system, internal piping, muffler, internal wiring, controller and tank). Where power units arrive in parts, they shall be assembled at the job site. The wiring and piping to and between multiple hydraulic power units shall be performed at the job site.
- (u) All air cushions with the exception of those built of brick or those put together with hot rivets.
- (v) Landing door entrances.

Craft: FENCE ERECTOR (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Fence Erector.....43.98

**ADD ZONE RATE**

In addition to FENCE ERECTOR rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from mid night to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday.

New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Veteran’s Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Erecting or repairing chain link, wooden, tortoise, wire/wire mesh, or temporary fencing;
2. Mixing and pouring concrete around bases of posts and tamping soil into post hole to embed post;
3. Digging post holes with a spade, post hole digger or power-driven auger;
4. Aligning posts through the use of lines or by sighting;
5. Verifying vertical alignment of posts with a plumb bob or spirit level;

Craft: FLAG PERSON (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Flag Person.....40.86

**ADD ZONE RATE**

In addition to FLAG PERSON add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year's Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day

**JOB DESCRIPTION**

**FLAG PERSON**, includes but is not limited to:

1. Directing movement of vehicular traffic through construction projects;
2. Distributing traffic control signs and markers along site in designated pattern;
3. Informing drivers of detour routes through construction sites;

Craft: FLOOR COVERER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                               |       |
|-------------------------------|-------|
| Floor Coverer Journeyman..... | 49.19 |
| Floor Coverer Foreman.....    | 51.46 |

**ADD PREMIUM PAY**

Shift work

1. \$2.00 per hour will be added to the taxable net wage to shift schedule of hours worked between 6:00 p.m. and 6:00 a.m.

One and one half (1 ½) time -shall be calculated using one (1) hour of the taxable net wage and one half (1/2) the base wage, to be paid for all time:

1. For all hours worked over ten (10) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight

Double time -shall be calculated using one (1) hour of the taxable net wage and one (1) of the base wage, to be paid for all time:

1. For any hours worked on Sunday from midnight to midnight
2. For any hours worked on holidays from midnight to midnight

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Independence Day, Labor Day, Admissions Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between Painters and Allied Trades DC 16 and Independent Flooring Contractors of No Nevada

Measuring, cutting, fabricating, fitting, installing to be cemented, tacked or otherwise applied to its base wherever it may be, all materials whether used either as a decorative covering or as an acoustical appliance such as carpets of all types and designs, wall carpets, sheet rubber, sheet vinyl, cork carpet, rubber tile, asphalt tile, tile, cork tile, linoleum tile, mastic in sheets or the tile from vinyl tile, interlocking tile, laminate flooring, engineered wood, hardwood, composition in sheet or tile form and all derivatives of above; the fittings of all devices for the attachment of the above materials and the fitting of all decorative or protective trim to and adjoining the above materials which shall include the drilling and plugging of holes and attaching of strips, slats, nosing, etc. on any base where the above materials are to be installed, or applied, such as drilling, plugging, slating, and slating for installing or fastening of carpet, the installing of all nosing, cap strips, corner beads and edging of any material and the preparatory work of the craft for all of the aforesaid. Also, the cleaning of rugs, carpets, and drapery hanging, make-up and the installation of drapes, the spraying and/or rolling of adhesives as required for double stick installation and carpet tiles.

Craft: GLAZIER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Glazier Journeyman.....24.49

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Installing, setting, cutting, preparing, or removal of glass, or materials used in lieu thereof, including, without limitation, in windows, doorways, showers, bathtubs, skylights and display cases;
2. Installing glass on surfaces, including, without limitation, fronts of buildings, interior walls and ceilings;
3. Installing pre-assembled framework for windows and doors designed to be fitted with glass panels, including stained glass windows by using hand tools;
4. Loading and arranging of glass on trucks at the site of the public work;

Craft: Highway Stripper (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                               |       |
|-------------------------------|-------|
| Highway Stripper.....         | 46.48 |
| Highway Stripper Foreman..... | 46.98 |

**ADD ZONE RATE**

In addition to HIGHWAY STRIPER rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year’s Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Painting highways, streets and parking surfaces by using manually propelled or mechanically propelled machines, brushes, rollers or spray guns;
2. Installing any device or application of any material used in lieu of paint for traffic direction, including, without limitation, buttons, tapes, plastics, rumble bars and other similar materials;

Craft: Hod Carrier-Brick Mason Tender (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                             |       |
|-----------------------------|-------|
| Brick Mason Journeyman..... | 44.23 |
| Brick Mason Foreman.....    | 44.63 |

**ADD ZONE RATE**

In addition to Hod Carrier Brick Mason Tender rates add the applicable amounts per hour, calculated based on road miles from the Washoe County Courthouse:

|      |                   |        |
|------|-------------------|--------|
| Zone | 75 miles and Over | \$8.13 |
|------|-------------------|--------|

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year's Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between No, NV Masonry Contractors and LIUNA Local 169

Conveying of all materials used by the Brick and Stone Masons from the first point of delivery to the Mechanic whether done manually or by a piece of machinery or equipment devised to replace the wheelbarrow or buggy, including but not limited to the forklift. The handling of Bricks, Blocks, mortar, or any other material to serve the bricklayer in any capacity building and dismantling scaffolds of any kind or type used by Bricklayers for masonry work including but not limited to tower scaffolds, access scaffolds, or other specialty scaffolds, mixing and tempering mortar by hand and/or machine, mixing grout and cleaning up after the bricklayer, the repairing and maintenance of all equipment, either on the job or in the yard.

Craft: Hod Carrier-Plasterer Tender (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                   |       |
|-----------------------------------|-------|
| Plasterer Tender-Journeyman.....  | 44.57 |
| Plasterer Tender- Gun Tender..... | 45.57 |
| Plasterer Tender-Foreman.....     | 45.93 |

**ADD ZONE RATE**

In addition to: HOD CARRIER-PLASTERER TENDER rates add the applicable amounts per hour, calculated based on road miles from So. Virginia St., Reno, Nevada:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 70 miles     | \$0.00 |
| Zone 2 | 70 miles and Over | \$8.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midn ight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year’s Day, Memorial Day, Fourth of July, Labor Day, Veteran’s Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between Plasterers Contractors and LIUNA Local Union 169

Any Employee within the scope of this division tending or serving any other worker performing plasterers work, any plasterer, plasterers, or apprentices in any capacity performing plasterers work including but not limited to, handling and conveying of all materials after delivery used by plasters, including but not limited to, inside finish coat, outside finish coat, brown coat, scratch coat, sprayed or trowled on fireproofing, EIFS systems, and other materials or systems for the same or similar purpose whether done manually or by a piece of machinery or equipment devised to replace the wheelbarrow or buggy, including but not limited to the forklift, tusk hoist, and rigging and signaling for cranes to the point or points of application or installation, making mixing and preparing after delivery all materials used by plasters, whether by hand or machine including but not limited to mixers, pumps for plaster or fire proofing, plaster, finish coats, fireproofing, including Monocoat, Cafco or other materials for the same or similar use, moving any rolling scaffolding, building and handling all necessary trestle, scaffolding and planking of scaffolding for plasterers and lathers, building mortar boxes, mortar boards and stands, and the repairing and maintenance of all equipment either on the job or in the yard, the spreading of all temporary protective drop cloths, building paper or plastic covers and taping of same (in a composite crew with the plasterers when necessary), the cleaning of all floors, and debris, behind the plasterers or any other worker performing plasterers work in connection with the work performed all work necessary for cold weather protection and cure including but not limited to handling installing or tending to blankets, visqueen, and space heaters, and running putty.

Tending to plasterers or any other worker performing plasterers work on EFIS system work shall include all work after the wallboard is installed including but not limited to any preparatory sealing or leveling, placing foam, mesh, and plaster including any rough, finish, and color coats.

For sprayed on fire proofing work only, including Monocoat, Cafco or other materials for the same or similar use an Employer signatory to this Agreement and the Local 169, Laborers Master Agreement may employ Laborers at the Group 1 wage rate to perform overspray protection, the spreading of all temporary protective drop cloths, building paper or plastic covers and taping of same, the cleaning of all floors, and debris, cold weather protection and cure including but not limited to handling installing or tending to blankets, visqueen, and space heaters and moving rolling scaffolding.

Craft: Ironworker (Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

|                                  |       |
|----------------------------------|-------|
| Ironworker-Journeyman.....       | 76.90 |
| Ironworker - Foreman.....        | 80.57 |
| Ironworker -General Foreman..... | 85.93 |

**ADD ZONE RATE** **SEE AMENDMENT 1**

In addition to Iron Worker rates add the applicable amounts per day, calculated based on a road mile from the Reno City Hall.

|        |                    |         |
|--------|--------------------|---------|
| Zone 1 | 60 to 75 miles     | \$25.00 |
| Zone 2 | 75 to 100 miles    | \$50.00 |
| Zone 3 | 100 miles and over | \$60.00 |

**ADD PREMIUM PAY**

One and one half (1X) the regular straight time hourly rate shall be paid:

1. For the first two (2) hours worked in excess of eight (8) on a regular workday Monday-Friday
2. For the first eight (8) hours on Saturday

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over ten (10) hours in one day or shift.
2. For any hours worked on Sunday.
3. For all hours worked over eight (8) on Saturday
4. For all hours worked on Holidays

Shift Pay

1. 2nd shift add 6% of hourly wage
2. 3rd shift add 13% of hourly wage
3. Dedicated shift add 6% of hourly wage

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB CLASSIFICATION:** Excerpt from Agreement between NV AGC and DC of Ironworkers

All work in connection with field fabrication and/or erection or deconstruction of structural, ornamental and reinforcing steel, including but not limited to the fabrication, rigging and signaling, erection and construction of all iron and steel, ornamental lead, bronze, brass, copper and aluminum, plastics and all other substitute materials, including, but not limited to, composites, carbon fiber and fiberglass, all barrier railings, handrail, aluminum, steel, glass and plastic, reinforced concrete structures or parts thereof; bridges, viaducts, inclines, dams, docks, dredges, vessels, locks, gates, guides, aqueducts, reservoirs, spillways, flumes, caissons, cofferdams, subways, tunnels, cableways, tramways, monorails, blast furnaces, stoves, kilns, coolers, crushers, agitators, pulverizers, mixers, concentrators, ovens, cupolas, roof decking such as but not limited to "Cofar", "Trusdeck", Mahon "M"; smoke conveyors, penstocks, flag poles, drums, shafting, shoring, fur and storage rooms, fans and hot rooms, stacks, bunkers, conveyors, dumpers, elevators, vats, tanks, enamel tanks, enamel vats, towers, pans, hoppers, plates, anchors, caps, corbels, lintels, Howe and combination trusses, grillage and foundation work, grating, bucks, partitions, hanging ceilings, hangers, clips, brackets, flooring, floor construction and domes, rolling shutters, curtains, frames; aluminum, rolling fire, won and iron doors, including supports; cast tiling, air ducts, duct and trench frames and plates; wire work, railings, wire cable

including pipe, guards, fencing, grill work, sidewalk and vault lights, skylights, roofs, canopies, light steel framing, marquees, awnings, the erection and installation of playground equipment to include bolting, fastening, welding of swings, slides, jungle gyms, footings and other related equipment elevator and dumb waiter enclosures, elevator cars, tracks, fascias, aprons, operating devices, steel and aluminum sash, hardware and screens, frames, fronts, lockers, racks, book stacks, tables, shelving, metal furniture, seats, chutes, escalators, stairways including pre-engineered stairs, ventilators, boxes, fire escapes, signs, jail and cell work, safes, vaults, vault doors, safe deposit boxes, corrugated sheets when attached to steel frames, including insulation; frames in support of boilers; materials altered in field such as framing, cutting, bending, drilling, burning and welding including by acetylene gas and electric machines; metal forms and false work pertaining to concrete construction; seismic isolation systems and dampening systems including base isolators, sectional water tube and tubular boilers and stokers; traveling sheaves, vertical hydraulic elevators, bulkheads, skip hoists, making and installation of articles made of wire and fibrous rope, rigging in connection with pumps, compressors, forced and induced draft fans, air meters, Bailey meters, agitators, oxygen converters, cinder machines, pelletizing machines, reactor vessels, reactor spheres, completed tanks and assembled sections of completed tanks, scroll cases, refineries, hydroelectric power houses and steam plants, cogeneration plants, vessels and government departments; false work, travelers, scaffolding, pile drivers, sheet piling, derricks and powered derrick swinger including the erection, installation, handling and operating. Cranes erection, installation, handling and operating of same on all forms and types of construction work. The operation of Valla and Spider type battery and/or propane powered portable floor cranes having no operator seat utilized to install ironworker scope of work and the same on all forms and types of construction work. Crane work at the ports, including hammer-head cranes, container cranes and rubber tire cranes. Offloading, relocations, and commissioning of all burning and removal of sea bracing track layout; erection of apex boom extensions, back reach extensions, and rail replacement. Includes all welding, containment and structural modifications of the aforementioned items; railroad bridge work including maintenance thereof; moving, hoisting and lowering of machinery, modules, skid modules and placing of same on foundation, including bridges, cranes, intermittent use forklifts, derricks, buildings, piers and vessels; loading, unloading, necessary maintenance, erection, installation, removal, wrecking and dismantling of all of the above and all reinforcing work and submarine diving in connection with or about same; erection of steel towers, chutes and spouts for concrete where attached to towers and handling and fastening of cables and guys for same; unloading, racking, sorting, cutting, bending, hoisting, placing and tying including the use of any and all mechanical tying devices, burning and welding including stud welding of all iron, steel and metal in reinforced concrete construction including mesh for floor arches and the making of hoops and stirrups, metal forms and metal supports thereof; jacking of slip forms, installation of all wire, cable, parabolic cans, steel and all other materials, including, but not limited to, composites, carbon fiber and fiberglass, used for the purposes of prestressing including grouting of ducts, post stressing concrete girders, beams, columns, etc.; loading, unloading, hoisting, handling, signaling, placing and erection of all prestressed, post stressed, precast materials, G.F.R.C., Dryvit System, including the securing by bolting and/or welding and the installation of steeltex and wire mesh of any type when used for reinforced concrete construction; erection of all curtain wall; glass handrail; stay in place deck; automated and/or mechanical parking structures; offloading, staging, hoisting and setting of modular structures and micro-units; curtain wall systems and associated sealants. Window wall and entrances, panels, insulated and non-insulated, factory and field assembled, porcelain enameled panels, ceramic, laminated spandrelite, louvers and sunscreens; application of thiokol, neoprene and other sealants used to seal materials installed by Iron Workers; installation and handling of phenolic panels, including but not limited to, Trespa products and all similarly related materials and/or systems; installation of metal window stools and sills; installation of aluminum, bronze and steel thresholds; erection and dismantling of all types of cranes and changing of booms; erection of rock, sand and gravel plants, dismantling and loading out conveyors, aggregate plants, batch plants, ableways, refrigeration plants, etc.; erection and dismantling of Monigan walking dragline, launchhammer bucket wheel excavator and other trenching equipment; signaling on highlines, whirley cranes and derricks, buck hoists, man hoists, fork lifts, material towers and scanning antennae;

metal and steel supports of all types; fabrication, assembling and erection of offshore drilling platforms or similar installations; dust collectors, precipitators, multi-plate, specialty welding processes, unloading, loading, hoisting, handling and rigging of all building materials delivered to the job site; hanging ceilings, tees, channels, beams, acoustical elements, sound barriers, computer floors, etc.; installation of stage rigging (including counterweights), curtains, draperies, traverse rods, tracks, cables, window cleaning equipment, powered work platforms, including and loading and unloading, erection installation and removal of powered chassis mounted elevating mast climbing work platforms, rigging in connection with display shows; ski lifts, etc.; wrecking of bridges, viaducts, elevated roads and structural steel and iron in buildings; all steel frames for openings, all porches, verandas, canopies and balconies; all overhead travelers, duo rails, tram rails; erection, setting, repairing of guard or collision rails on bridges and approaches, road ways or any other structures; handling and setting of all types of steel and metal joists, including metal box joists for truss lab and preformed keystone shaped metal joists; erection of steel and metal houses and packaged buildings; all translucent and plastic material on steel frame construction; the erection of solar energy systems, including but not limited to, photo voltaic, heliostat and parabolic systems, energy producing windmill type towers, wind turbine erection to included, but not limited to, prep work, boltup, tensioning or torque of bolts on base and all tower section turbine and blade assemblies; nuclear reactors, electromagnetic shielding plates and atomic vessels including all component parts; the plumbing, aligning and leveling of all materials and equipment through the use of optical instruments, LASER beams, etc., and the use of instruments to establish layout, installation and disposition of ironworker installed scope of work; the unloading, distributing, stockpiling and handling of all materials coming under the jurisdictional claims of the UNION such as to rail heads, storage yards, loading and unloading, hoisting, handling, signaling of all fabricated material and equipment at the jobsite (except FOB deliveries) related to the Iron Workers jurisdiction that is within the individual employers' contractual scope of work including from and to barge and ships to a lay down yard or construction project, etc., shall be done by the Iron Workers.

All reinforcing work in connection with field fabrication, including but not limited to the pre-assembly of reinforcing cages, loading and unloading, handling, racking, sorting, cutting, bending, hoisting, intermittent use of forklifts, placing, burning, welding and tying of all material including the use of any and all mechanical tying devices, or substitute materials, including but not limited to, composites, carbon fiber and fiberglass, stainless steel, used to reinforce concrete construction shall be done by Iron Workers within the individual employers' scope of work at the jobsite, excluding FOB deliveries. A working Iron Worker shall be employed for maintenance on jobs of substantial size while concrete is being poured on reinforcing steel, wire mesh and paper back steeltex but will not be required as a stand-by man. All work in connection with the installation, alignment, repair & modification of panelized roofing systems, pre-engineered fabric structures, aluminum clarifier coverings, carports, ministorages, and dock planks. All work in connection with the installation, alignment, repair and modification of bleachers, planking and stadium seating. All work in connection of installation of amusement rides including, but not limited to, the erection and alignment of all track, machinery and related components.

Craft: Laborer (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                          |       |
|--------------------------|-------|
| Landscaper .....         | 38.57 |
| Furniture Mover .....    | 40.07 |
| Group 1.....             | 43.73 |
| Group 1A.....            | 40.86 |
| Group 2.....             | 43.83 |
| Group 3.....             | 43.98 |
| Group 3A.....            | 47.41 |
| Group 4.....             | 44.23 |
| Group 4A.....            | 46.73 |
| Group 5.....             | 44.53 |
| Group 6                  |       |
| Nozzlemen, Rodmen.....   | 43.53 |
| Gunmen, Materialmen..... | 44.23 |
| Reboundmen.....          | 43.88 |
| Gunite Foreman.....      | 44.93 |

**ADD ZONE RATE**

In addition to LABORER rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midn ight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Veteran’s Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between AGC and LIUNA Local 169

The construction, erection, alteration, repair, modification, demolition, addition, improvement of all building, heavy and highway, utility, industrial and all other type(s) of construction.

**SEE GROUP CLASSIFICATIONS**

Craft: LUBRICATION AND SERVICE ENGINEER (MOBILE AND GREASE RACK) (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Lubrication and Service Engineer (mobile and grease rack).....65.08

**ADD ZONE RATE**

In addition to: **LUBRICATION AND SERVICE ENGINEER (MOBILE AND GREASE RACK)** rates add the applicable amounts per hour calculated based on a road miles from the Carson City Courthouse or Washoe County Courthouse.

|        |                    |        |
|--------|--------------------|--------|
| Zone 1 | 0 to 75 miles      | \$0.00 |
| Zone 2 | 75 to 150 miles    | \$4.00 |
| Zone 3 | 150 to 300 miles   | \$5.00 |
| Zone 4 | 300 miles and over | \$6.00 |

**ADD PREMIUM PAY**

1. One and one-half (1-1/2) times the applicable straight-time rate for the day, shift, work, equipment and classification shall be paid for all work (including repair work and field survey work) performed on Saturday and before a shift begins and after it ends, except when operating equipment servicing a craft that is receiving double time on commercial building construction, in which case double time shall be paid.

2. Overtime. The following rates shall apply on Sundays and holidays and all work before a shift begins and after it ends:

**RECOGNIZED HOLIDAYS**

Holidays. Double the applicable straight-time rate shall be paid for all work (including repair, maintenance and field survey work) performed on Sundays and the following holidays: New Year's Day (January 1); Memorial Day (last Monday in May); Independence Day (July 4); Labor Day (1st Monday in September); Nevada Admission Day (last Friday in October); Thanksgiving Day (4th Thursday in November); the day after Thanksgiving Day; and Christmas Day (December 25). Holidays falling on Sunday shall be observed on the following Monday. Holiday hours shall be reckoned on the same basis as Sunday hours.

Saturday Shift Period. On any shift, Saturday shall be the twenty-four-hour period commencing at 12:00 midnight Friday.

Sunday Shift Period. On any shift, Sunday shall be the twenty-four-hour period commencing at 12:00 midnight Saturday.

3. For hours worked in excess of 12) on any such workday, an Employee shall be paid two (2) times the regular straight-time rate of pay for each hour so worked.

Craft: Mechanical Insulator (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |       |
|--|-------|
| Mechanical Insulator-Mechanic.....         | 69.11 |
| Mechanical Insulator-Foreman.....          | 73.11 |
| Mechanical Insulator-General Foreman ..... | 75.11 |

**ADD ZONE RATE**

In addition to MECHANICAL INSULATOR rates add the applicable amounts per hour, calculated based on a radius figured from Reno City Hall:

|        |                |         |
|--------|----------------|---------|
| Zone 1 | 0 to 20 miles  | \$11.00 |
| Zone 2 | 21 to 40 miles | \$21.00 |
| Zone 3 | 41 to 60 miles | \$31.00 |
| Zone 4 | Over 60 miles  | \$85.00 |

**ADD PREMIUM PAY**

One and one half times the minimum hourly wage rate shall be paid for the first two (2) hours of overtime work, directly following eight (8) hours Monday through Friday, and for the first ten (10) hours worked on Saturdays. Double the minimum hourly wage rate shall be paid for all other overtime worked Monday through Friday and in excess of ten (10) hours on Saturdays.

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from the Int'l Assoc. of Heat and Frost Insulators and Allied Workers Local 16 and the No. CA Chapter. Western Insulation Contractors Assoc.

- 65. Lining of all mechanical room surfaces and air handling shafts.
- 66. The filling and damming of fire stops and penetrations including, but not limited to, electrical and mechanical systems.
- 67. All foam applications for the purpose of thermal, acoustical, or fire protective purposes, including RTV foams or equivalents, applied to mechanical or electrical systems.
- 68. All duct lining, and duct wrapping, done on the job site, direct application and installation of fire protection of grease ducts, exhaust systems, or any other ductwork for acoustical or thermal purposes.
- 69. The insulation of all field joints on pre-insulated underground piping, and the pouring of Gilsilite or its equivalent.
- 70. Any finish material which is contiguous to the thermal or acoustical application.
- 71. The preparation, distribution of materials on job sites, assembling, molding, spraying, pouring, mixing, hanging, adjusting, repairing, dismantling, reconditioning, maintaining, finishing, and weather proofing of hot or cold thermal or acoustical insulation with such materials as may be specified.
- 72. The application of any material, including metal and PVC jacketing, Alumaguard or equivalent, on piping, fittings, valves, flanges, boilers, ducts, plenums, flues, tanks, vats, equipment and any other hot or cold surface for the purpose of thermal control.
- 73. The Agreement shall cover all other work of a specialty nature.

Craft: Millwright (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                 |       |
|---------------------------------|-------|
| Millwright Journeyman.....      | 68.61 |
| Millwright Welder.....          | 69.61 |
| Millwright Foreman.....         | 72.67 |
| Millwright General Foreman..... | 77.14 |

**ADD ZONE RATE**

In addition to MILLWRIGHT rates, add the applicable amounts per hour, calculated on road miles from the Washoe County Courthouse:

|        |                |        |
|--------|----------------|--------|
| Zone 1 | 0 to 15 Miles  | \$0.00 |
| Zone 2 | 15 to 35 Miles | \$2.50 |
| Zone 3 | Over 35 Miles  | \$4.25 |

**ADD PREMIUM PAY**

First two (2) hours outside the regular constituted shift shall be at the rate of time and one-half (1½X).

Saturdays up to the first ten (10) hours shall be at the rate of time and one-half (1½X). All additional hours and Sundays and holidays shall be the rate of double time (2X). When working on Sundays and holidays, there will be one dollar and fifty cents (\$1.50) per hour additional paid to Pension Annuity. Admission Day is a recognized holiday in lieu of Veterans' Day.

**RECOGNIZED HOLIDAYS**

New Year's Day, Washington's Birthday (President's Day), Memorial Day, 4th of July, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION** Excerpt from Southwest Regional Council of Carpenters and Affiliated Local Unions Master Labor Agreement

5006.18

The work of the millwrights, as spelled out in the Jurisdictional Claims Handbook referenced in Paragraph 5006.17 above, is as follows: The term "MILLWRIGHTS AND MACHINE ERECTORS" shall mean the, unloading, hoisting, rigging, skidding, moving, dismantling, aligning, erecting, assembling, repairing, maintaining and adjusting of all machinery and equipment installed either in buildings, factories, structures, or processing areas, either undercover, underground or elsewhere required to process material, handle, manufacture or service, be it powered or receiving power manually, by steam, gas, electric, gasoline, diesel, nuclear, solar, water, air or chemically; and in industries such as and including but not limited to the following (which are identified for the purpose of description: woodworking plants, canning industries, steel, coffee roasting plants, paper and pulp, cellophane, stone crushing, gravel and sand washing and handling, refineries, grain storage and handling, asphalt plants, sewage disposal and water plants, laundry, bakery, mixing plants, can, bottle and bag packing plants, textile mills, paint mills, breweries and milk processing plants, power plants, aluminum processing or manufacturing plants, and the amusement or entertainment field.

5006.19

Also included are installation of mechanical equipment in atomic energy plants, installation of reactors in power plants, installation of control rods and equipment in reactors, installation of mechanical

equipment in rocket missile bases, launchers, launching gantry, floating bases, hydraulic escape doors and any and all component parts thereto either assembled, semi-assembled or disassembled.

#### 5006.20

Further included is the installation of, but not limited to the following: setting of all engines, motors, generators, air compressors and fans, pumps, scales, hoppers, conveyors of all types and sizes and their supports, escalators, man lifts, moving machinery, mechanical operator and/or automatic doors, roll-up doors, mechanical stage equipment, amusement devices, mechanical pin setters and spotters in bowling alleys, refrigeration equipment and installation of all types of equipment necessary and required to process material either in manufacturing or servicing, the handling and installation of pulleys, gears, sheaves, fly wheels, air and vacuum drives, worm drives and gear drives directly or indirectly coupled to motors, belts, chains, screws, legs, boots, guards, boot tanks, all bin valves, turn heads and indicators, shafting, bearing, cable sprockets, cutting all key seats in new and old work, troughs, chippers, filters, calendars, rolls, winders, reminders, slitters, cutters and wrapping machines; blowers, forging machines, rams, hydraulic or otherwise, planing, extruder, ball, dust collectors, equipment in meat packing plants and splicing of ropes and cables.

#### 5006.21

Additionally included are the laying out, fabrication and installation of protection equipment, including machinery guards, the making and setting of templates for machinery, fabrication of bolts, nuts, pins and drilling of holes for any equipment which the millwrights install regardless of materials; all welding and burning regardless of type; fabrication of all lines, hose or tubing used in lubricating machinery installed by millwrights; grinding, cleaning, servicing and machine work necessary for any part of any equipment installed by the millwrights; and the breaking in and trial run, of any equipment or machinery installed by the millwrights

#### 5006.22

When requested in writing by the Millwright Union, individual Employers who are parties to this Agreement shall furnish signed letters promptly on a date mutually agreed upon by both parties, but in no case more than thirty (30) days, on the letterhead of the individual Employer stating he is employing or had employed millwrights on a specific type of work and a specific job and paid the negotiated scale of wages and fringe benefits for such work.

#### 5006.23

The individual Employer and the Local Union will cooperate promptly in attempting to resolve jurisdictional disputes that may arise on any job or project.

Craft: OPERATING ENGINEER (Union Rate)  
**Prevailing wage rates include the base rate as well as all applicable fringes**

| Operating Engineers                          | (SEE GROUP CLASSIFICATIONS) |
|--|-----------------------------|
| Group 1.....                                 | 60.16                       |
| Group 1A.....                                | 62.82                       |
| Group 2.....                                 | 63.36                       |
| Group 3.....                                 | 63.62                       |
| Group 4.....                                 | 64.36                       |
| Group 5.....                                 | 64.66                       |
| Group 6.....                                 | 64.86                       |
| Group 7.....                                 | 65.08                       |
| Group 8.....                                 | 65.67                       |
| Group 9.....                                 | 65.99                       |
| Group 10.....                                | 66.34                       |
| Group 10A.....                               | 66.53                       |
| Group 11.....                                | 66.77                       |
| Group 11A.....                               | 68.41                       |
| Group 11B.....                               | 69.22                       |
| Foreman.....                                 | 68.41                       |
| Add \$12.5% to base rate for "Special" Shift |                             |

**Add Operating Engineers Zone Pay**  
**Add Premium Pay**

Craft: OPERATING ENGINEER (Union Rate)  
**STEEL FABRICATOR & ERECTOR**

**Prevailing wage rates include the base rate as well as all applicable fringes**

| Operating Engineers                               | (SEE GROUP CLASSIFICATIONS) |
|---|-----------------------------|
| Group 1.....                                      | 75.36                       |
| Group 1 Truck Crane Oiler.....                    | 69.19                       |
| Group 1 Oiler.....                                | 67.23                       |
| Group 2.....                                      | 73.85                       |
| Group 2 Truck Crane Oiler.....                    | 68.94                       |
| Group 2 Oiler.....                                | 67.02                       |
| Group 3.....                                      | 72.61                       |
| Group 3 Truck Crane Oiler.....                    | 68.72                       |
| Group 3 Oiler.....                                | 66.80                       |
| Group 3 Hydraulic.....                            | 68.39                       |
| Group 4.....                                      | 70.88                       |
| Group 5.....                                      | 69.78                       |
| Add \$12.5% to base rate for "Special" Shift..... |                             |

**Add Operating Engineers Zone Pay**  
**Add Premium Pay**

Craft: OPERATING ENGINEER (Union Rate)  
 PILEDRIVER

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |                             |
|---|-----------------------------|
| Operating Engineers                               | (SEE GROUP CLASSIFICATIONS) |
| Group 1.....                                      | 74.73                       |
| Group 1 Truck Crane Oiler.....                    | 69.17                       |
| Group 1 Oiler.....                                | 67.25                       |
| Group 2.....                                      | 73.09                       |
| Group 2 Truck Crane Oiler.....                    | 68.96                       |
| Group 2 Oiler.....                                | 67.05                       |
| Group 3.....                                      | 71.64                       |
| Group 3 Truck Crane Oiler.....                    | 68.74                       |
| Group 3 Oiler.....                                | 66.82                       |
| Group 4.....                                      | 70.13                       |
| Group 5.....                                      | 69.02                       |
| Group 6.....                                      | 65.74                       |
| Group 7.....                                      | 66.95                       |
| Group 8.....                                      | 65.99                       |
| Add \$12.5% to base rate for "Special" Shift..... |                             |

**ADD ZONE RATE**

In addition to: **OPERATING ENGINEER, STEEL FABRICATOR & ERECTOR, and OPERATING ENGINEER PILEDRIVER**, rates add the applicable amounts per hour calculated based on a road miles from the Carson City Courthouse or Washoe County Courthouse

|        |                  |        |
|--------|------------------|--------|
| Zone 1 | 0 to 75 miles    | \$0.00 |
| Zone 2 | 75 to 150 miles  | \$4.00 |
| Zone 3 | 150 to 300 miles | \$5.00 |
| Zone 4 | 300 miles over   | \$6.00 |

**ADD PREMIUM PAY**

1. One and one-half (1-1/2) times the applicable straight-time rate for the day, shift, work, equipment and classification shall be paid for all work (including repair work and field survey work) performed on Saturday and before a shift begins and after it ends, except when operating equipment servicing a craft that is receiving double time on commercial building construction, in which case double time shall be paid.

2. Overtime. The following rates shall apply on Sundays and holidays and all work before a shift begins and after it ends:

**RECOGNIZED HOLIDAYS**

Holidays. Double the applicable straight-time rate shall be paid for all work (including repair, maintenance and field survey work) performed on Sundays and the following holidays: New Year's Day (January 1); Memorial Day (last Monday in May); Independence Day (July 4); Labor Day (1st Monday in September); Nevada Admission Day (last Friday in October); Thanksgiving Day (4th Thursday in November); the day after Thanksgiving Day; and Christmas Day (December 25). Holidays falling on Sunday shall be observed on the following Monday. Holiday hours shall be reckoned on the same basis as Sunday hours.

Saturday Shift Period. On any shift, Saturday shall be the twenty-four-hour period commencing at 12:00 midnight Friday.

Sunday Shift Period. On any shift, Sunday shall be the twenty-four-hour period commencing at 12:00 midnight Saturday.

3. For hours worked in excess of 12) on any such workday, an Employee shall be paid two (2) times the regular straight-time rate of pay for each hour so worked.

**JOB DESCRIPTION**, includes but is not limited to:

Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement.

Craft: PAINTER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |                                 |
|--|---------------------------------|
| Brush/Roller Painter.....                    | 45.50                           |
| Spray Painter/Paperhanger.....               | 46.83                           |
| Sandblaster.....                             | 46.88                           |
| Structural Steel & Steeplejack.....          | 46.88                           |
| Swing Stage.....                             | 47.24                           |
| Special Coating Application-Brush.....       | 47.29                           |
| Special Coating Application-Spray.....       | 47.29                           |
| Special Coating Application-Spray Steel..... | 47.29                           |
| Foreman.....                                 | \$1.00 above highest Journeyman |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift unless the Union is notified when four (4) tens (10's) are instituted.
2. For any hours worked on Saturday from midnight to midnight
3. For any work performed in excess of the regular work week of forty (40) hours.

Double the regular straight time hourly rate shall be paid for all time:

1. For any hours worked on Sunday from midnight to midnight
2. For any hours worked on holidays from midnight to midnight

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between Painters and Allied Trades DC 16 and Independent Flooring Contractors of No Nevada

a. All painting of residences, buildings, structures, industrial plants, tanks, vats, pipes, vessels, bridges, light poles, high tension poles, traffic and parking lines on highways, parking lots, playgrounds, factories, and air line strips; all sign, pictorial, coach, car automobile, carriage, aircraft machinery, ship and railroad equipment, mural and scenic painting; spackling of all surfaces where adhesive materials are used; and all drywall pointing, taping and finishing.

b. All decorators, paperhangers, hard wood finishers, grainers, glaziers, varnishers, enamellers

1. Paperhangers work shall be all material of whatever kind or quality applied to walls or ceilings with paste or adhesive; all tacking on the muslin or other materials which is used as wall or ceiling coverings or covered with material pasted on.

2. The scraping off of old paper, preparing of walls, etc., for paper hangers work.

3. The application of relief, stucco, plaster or decorative work shall not be considered paperhanger's work exclusively.

(c) All men engaged in applying or removing paints, pigments, extenders, metal primers and metal pigments, clear pigments, binders, thinners and dryers, primers and sealers, oil paints and enamels,

water colors and emulsions, clear coatings, waxes, stains, mastics, cement enamels and other special coatings, plastics, adhesives, coatings and sheet rubber and other linings, oils, varnishes, water colors, wall paper, wall coverings or other materials used in the various branches of the trade, and the cleaning and bleaching of all interior and exterior walls and surfaces with liquid, steam, sandblast or any other process and all work incidental thereto.

Craft: PILEDRIVER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                 |       |
|---------------------------------|-------|
| Piledriver-Journeyman.....      | 53.66 |
| Piledriver-Welder.....          | 54.66 |
| Piledriver-Foreman.....         | 57.07 |
| Piledriver-General Foreman..... | 60.82 |
| Tender.....                     | 57.07 |
| Stand-By Diver.....             | 58.07 |
| Diver-Diving (Wet Pay).....     | 96.61 |

**ADD ZONE RATE**

In addition to PILEDRIVER rates add the applicable amounts per hour, calculated from the Washoe County Courthouse:

|        |                  |        |
|--------|------------------|--------|
| Zone 1 | 0 to 75 miles    | \$0.00 |
| Zone 2 | 75 to 150 miles  | \$4.00 |
| Zone 3 | 150 to 300 miles | \$5.00 |
| Zone 4 | Over 300 miles   | \$6.00 |

**ADD PREMIUM PAY**

First two (2) hours outside the regular constituted shift shall be at the rate of time and one-half (1½X).

Saturdays up to the first ten (10) hours shall be at the rate of time and one-half (1½X). All additional hours and Sundays and holidays shall be the rate of double time (2X). When working on Sundays and holidays, there will be one dollar and fifty cents (\$1.50) per hour additional paid to Pension Annuity.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4th of July, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION**

In addition, the operation of the power pack and vibratory hammer controls when driving or pulling, sheet pile, pile, soldier beams, cassinos or casing.

(1) In the construction of waterfront and marine facilities, such as docks, piers, wharves, bulkheads, jetties, and similar structures, the pile driver classification should continue to apply, up to and including the decking thereof.

(2) On all pile driving and caisson work on both land and water, the Pile Driver classification should apply.

(3) In the construction of wooden bridges whether over land or over water, when composed of heavy timber, the Pile Driver classification should apply.

(4) In the construction of concrete or steel bridges over land, the Pile Driver classification shall apply to the driving of piles and/or caisson work including the forms required for the capping of the piles or caissons immediately top of the piles or caissons. The capping of the piles is herein interpreted as being that concrete, wood, or other material resting on the top of the piles where driven or placed and does not include any further form work above the capping. In many instances it has been found that the capping is called the girder. The above shall apply on such concrete or steel bridges constructed over land, highways, railroads, overpasses and include cloverleaves, interchanges, etc.

(5) In the construction of concrete or steel bridges over water, the Pile Driver classification shall apply up to and including all of the form work to the top of the column, piers, or abutments supporting the steel and/or any other superstructures.

(6) In the erection of false work, when necessary for the support of work under the Pile Driver classification, then such false work shall fall within their classification. False work necessary for the support of work under the Carpenter classification shall be done within such Carpenter classification, with the exception that where pile driving or power equipment is used for heavy timber false work, then such work shall come under the Pile Driver classification. This would include all rigging, signaling and tagging incidental to the placing of the heavy timber.

(7) In the construction of open-cut sewers, the Pile Driver classification shall apply on all piling including wood, steel or concrete sheet piling, all bracing timber and form work incidental to the construction thereof.

Craft: PLASTERER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                           |       |
|---------------------------|-------|
| Plasterer-Journeyman..... | 48.82 |
| Plasterer-Foreman.....    | 52.13 |

**ADD ZONE RATE**

In addition to PLASTERER rates add the applicable amounts per hour, calculated from the South Virginia and Mill Street, Reno, Nevada:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 70 miles     | \$0.00 |
| Zone 2 | 70 miles and over | \$8.00 |

**ADD PREMIUM PAY**

OVERTIME Eight (8) consecutive hours (exclusive of a meal period) shall constitute a day's work at straight time. Five (5) consecutive days of eight (8) consecutive hours (exclusive of a meal period), Monday through Friday, shall constitute a week's work. One and one half (1 ½) the regular straight time hourly rate shall be paid for all work over eight (8) hours. Sunday will be paid at double the regular straight time rate.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4th of July, Labor Day, Admissions Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement No NV. Plasterers Master Labor Agreement

This includes but is not limited to:

1. All building construction, including but not limited to the construction, erection, alteration, repair, modification, demolition, addition, or improvement in whole or in part of any building structures,
2. All interior or exterior plastering construction, restoration, repair and inspection of cement, stucco, stone imitation or any patent material when ornamental molded plaster, and the setting of same. All specialty finishes such as veneer, venetian, marmoreno and grasello. All custom and specialty finishes, including but not limited to custom rock, carved plaster, brick and block veneer, stone and wood. Smooth and finish surfaces of full system E.I.F.S. including sticking and shaping of foam pieces or surfaces by adhesive or mechanical installation. All spray or towed on fireproofing, including cementitious and intumescent products. All plaster acoustical finish systems including, but not limited to, BASWA Phon and Fellert.
3. All work processes which represent technological change, replacement, modification or substitution for the work described above. In addition, all work and use of new materials or *2020-2024 Reno Plasterers Master Labor Agreement* 4 techniques involved in plaster construction including but not limited to what is known as green or sustainable construction technology.

Craft: PLUMBER/PIPEFITTER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |       |
|---|-------|
| Plumber/Pipefitter-Journeyman.....      | 63.95 |
| Plumber/Pipefitter-Foreman.....         | 68.18 |
| Plumber/Pipefitter-General Foreman..... | 72.41 |

**ADD ZONE RATE**

In addition to PLUMBER/PIPEFITTER rates add the applicable amounts per statute air mile radius from the Nevada freeway interchange of Interstate 80 and 580.

|        |               |        |
|--------|---------------|--------|
| Zone 1 | 0 to 75       | \$0.00 |
| Zone 2 | Over 75 miles | \$8.00 |

A separate free zone will be established for employees permanently residing and working within a seventy-five (75) statute air mile radius of the Elko, Nevada Post Office.

|        |               |        |
|--------|---------------|--------|
| Zone 1 | 0 to 75       | \$0.00 |
| Zone 2 | Over 75 miles | \$8.00 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Fourth of July, Labor Day, Nevada Admission Day, Thanksgiving Day, the Friday after Thanksgiving Day, Day Before Christmas and Christmas Day and any Friday preceding a Holiday falling on a Saturday, if worked, holidays shall be compensated at the double time rate.

**JOB DESCRIPTION** Excerpt from Agreement between LU 350 of United Assoc. of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of United States and Canada

Installation of all heating and refrigeration systems and competent parts thereof, including fabrication, assembling, erection installation, dismantling, repairing, reconditioning, adjusting, altering servicing, handling, distributing, and tying on all piping materials appurtenances and equipment by method, including all hangars and supports of every description, all other work including the the trade relevant to oil burner and all other types of heating and refrigeration equipment including low voltage controls.

Craft: REFRIGERATION MECHANIC (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                      |       |
|--------------------------------------|-------|
| Refrigeration-Journeyman.....        | 59.34 |
| Refrigeration -Foreman.....          | 62.81 |
| Refrigeration -General Foreman ..... | 66.27 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Fourth of July, Labor Day, Nevada Admission Day, Thanksgiving Day, the Friday after Thanksgiving Day, Day Before Christmas and Christmas Day and any Friday preceding a Holiday falling on a Saturday, if worked, holidays shall be compensated at the double time rate.

**JOB DESCRIPTION** Excerpt from Agreement between LU 350 of United Assoc. of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of United States and Canada

Installation of all heating and refrigeration systems and competent parts thereof, including fabrication, assembling, erection installation, dismantling, repairing, reconditioning, adjusting, altering servicing, handling, distributing, and tying on all piping materials appurtenances and equipment by method, including all hangars and supports of every description, all other work including the trade relevant to oil burner and all other types of heating and refrigeration equipment including low voltage controls.

Craft: ROOFER (Non-Union Rate)  
(Does not include sheet metal roofs)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Rofer-Journeyman.....32.63

**ROOFER**

Includes but is not limited to:

1. Installing and covering roofs and structures with slate, asphalt, wood and other related materials, other than sheet metal, by using brushes, knives, punches, hammers and other tools;
2. Spraying roofs, sidings and walls with material to bind, seal, insulate or soundproof sections of a structure;
3. Installation of all plastic, slate, slag, gravel, asphalt and composition roofing, and rock asphalt mastic when used for damp and waterproofing;
4. Installation of all damp resisting preparations when applied on roofs with mop, three-knot brush, roller, swab or spray system;
5. All types of preformed panels used in waterproofing;
6. Handling, hoisting and storing of all roofing, damp and waterproofing materials;
7. The tear-off and/or removal of roofing and roofing materials;

Craft: SHEET METAL WORKERS (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |       |
|--|-------|
| Sheet Metal Worker Journeyman.....       | 68.43 |
| Sheet Metal Worker -Foreman.....         | 72.45 |
| Sheet Metal Worker -General Foreman..... | 76.47 |

**ADD ZONE RATE**

In addition to SHEET METAL rates add the applicable amounts per hour, calculated based on a road from the courthouse in Reno, Nevada:

|        |                 |  |
|--------|-----------------|--|
| Zone 1 | 0 to 75 miles   | \$0.00   |
| Zone 2 | 75 to 100 miles | \$5.00   |
| Zone 3 | Over 100 miles  | \$10.00 the employee shall be provided reasonable lodging and meal expenses. |

**ADD PREMIUM PAY**

All hourly rates are subject to Over Time (One and one half 1 ½) of the Regular rate:

1. For all hours worked over Eight (8) Hours in one day or shift.
2. For the first Eight (8) Hours work on Saturday.

All hourly rates are subject to Double Time of the Regular Rate:

1. For all hours worked over Ten (10) Hours in one day or shift.
2. For all hours worked over Eight (8) Hours on Saturday.
3. For all hours worked on Sunday, New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day.

**RECOGNIZED HOLIDAYS**

New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day

**JOB DESCRIPTION:** Excerpt from Sheet Metal Local 26 Collective Bargaining Agreement

(a) manufacture, fabrication, assembling, handling, erection, installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or nonferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air veyor systems, exhaust systems, and air-handling systems regardless of material used including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct lining; (c) testing and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches whether manually drawn or computer assisted used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches; (e) metal roofing; and (f) all other work included in the jurisdictional claims of International Association of Sheet Metal, Air, Rail and Transportation Workers.

Craft: SPRINKLER FITTER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Sprinkler Fitter-Journeyman.....26.27

**JOB DESCRIPTION**

Installing, dismantling, maintenance, repairs, adjustments and corrections of all fire protection and fire control systems Including the unloading, handling by hand, power equipment and installation of all piping or tubing, appurtenances and equipment pertaining thereto, including both overhead and underground water mains, fire hydrants and hydrant mains, standpipes, and hose connections to sprinkler systems, sprinkler tank heaters, air lines and thermal systems used in connection with sprinkler and alarms systems, also all tanks and pumps connected thereto. Also including shall be CO2 and Cardox Systems, Dry Chemical Systems, Foam Systems and all other fire protection systems, but excluding steam fire protection systems.

Craft: SOILS and MATERIAL TESTER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Soil Tester (Certified).....42.84  
Soils and Materials Tester.....42.84

Craft: SURVEYOR (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Surveyor.....37.64

**SURVEYOR**, includes but is not limited to:

1. Planning ground surveys designed to establish base lines, elevation and other geodetic measurements;
2. Compiling data relevant to the shape, contour, gravitation, location, elevation and dimension of land and land features on or near the surface of the Earth for engineering, map making, mining, land evaluation, construction and other purposes;
3. Surveying bodies of water to determine navigable channels and to secure data for construction of breakwaters, piers and other marine structures;
4. Computing data necessary for driving and connecting underground passages, underground storage and volume of underground deposits.

Craft: TAPER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                            |       |
|----------------------------|-------|
| Taper-Journeyman.....      | 51.36 |
| Taper-Foreman.....         | 52.86 |
| Taper-General Foreman..... | 53.86 |

**ADD ZONE RATE**

In addition to: TAPER rates add the applicable amounts per hour Zone Pay shall commence from Maryland Parkway and Charleston Boulevard and shall be paid as follows:

|        |                |        |
|--------|----------------|--------|
| Zone 1 | 0 to 40 miles  | \$0.00 |
| Zone 2 | 40 to 60 miles | \$2.50 |
| Zone 3 | over 60 miles  | \$4.25 |

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**ADD PREMIUM PAY**

All overtime, except Sundays and holidays, will be time and one-half (1 1/2). Sundays and holidays will be paid double time (2X). Any and all work performed in excess of the regular workday of eight (8) hours, or ten (10) hours if mutually agreed to, and the regular workweek of forty (40) hours shall be considered overtime and shall be paid for at one and one-half (1 1/2) times the regular hourly rate.

**JOB DESCRIPTION:** Excerpt from Agreement between DC 16 and the independent Drywall Contractors of Northern Nevada

SECTION 1 -- The scope of work covered by this Agreement shall include (but not be limited to) all work operations, including distribution to the point of application, as follows:

- (a) Work or services pertaining to the preparation, spotting, pointing, detailing, flushing, sanding and finishing of interior and/or exterior gypsum, drywall, thin wall, concrete, steel, wood and plaster surfaces, spackling of all surfaces where adhesive materials are used; and all drywall pointing, taping and finishing.
- (b) Work or services pertaining to the application of all finish or flushing materials regardless of method of application or type of surface on which materials are applied, including but not limited to texture and simulated acoustic materials of all types and the application of radiant heat fill and steel fireproofing materials.
- (c) Work or services pertaining to the installation of protective coverings and masking prior to the application of finish materials.
- (d) The operation and care of all taping tools and texturing equipment used in the finishing and texturing of drywall and other surfaces including brushes, rollers, spray texturing equipment, miscellaneous hand, mechanical, and power tools, and the operation and maintenance of compressors required in the finishing and texturing of such surfaces.
- (e) No limitation shall be placed on the work covered by this Agreement by reason of the surface, type of material or purpose for which the materials used are designed or intended.
- (f) The cleanup of all materials and debris occasioned by any job operation at the site of construction, alteration, or repair undertaken whether such operation occurs on the interior or exterior of a building structure.

Craft: TILE SETTER/TERRAZZO WORKER/MARBLE MASON FINISHER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |       |
|---|-------|
| Tile Setter/Terrazzo Worker/Marble Mason- Finisher.....                 | 36.32 |
| Tile Setter/Terrazzo Worker/Marble Mason- Finisher Foreman.....         | 37.57 |
| Tile Setter/Terrazzo Worker/Marble Mason Finisher- General Foremen..... | 39.32 |

**ADD PREMIUM PAY**

All work in excess of forty (40) hours during the established work week shall be paid at the rate of one and one-half (1-1/2) times the hourly base wage rate in effect.

Employees shall be paid one and one-half (1-1/2) times the hourly wage rate for all hours worked over eight (8) in a single day and double time after ten (10) hours in a single day, Monday through Friday, except recognized holidays.

Daily Overtime Saturdays the first ten (10) hours performed on Saturday shall be paid at one and one-half (1-1/2) times the straight time wage rate.

Daily Overtime Sunday- Employees shall be paid double time on Sundays if forty (40) straight time hours have been worked during the proceeding work week.

Holidays shall be paid double time for hours owed on recognized holidays.

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day. Any holiday falling on a Sunday will be observed on Monday.

**JOB DESCRIPTION:** Excerpt from Agreement between BAC 13 Nevada of the Mountain West Administrative District Council Master Labor Agreement

*FINISHER'S WORK:*

Finisher's work shall consist of assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments. required to complete the proper installation of the work covered by Sections 5, 7 and 8 of this Code.

Craft: TILE SETTER/TERRAZZO WORKER/MARBLE MASON (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |       |
|--|-------|
| Tile Setter Journeyman.....                | 46.12 |
| Tile Setter Foreman.....                   | 47.37 |
| Tile Setter General Foreman.....           | 49.12 |
| <br>                                       |       |
| Terrazzo/Marble Mason-Journeyman .....     | 47.12 |
| Terrazzo/Marble Mason-Foreman .....        | 48.32 |
| Terrazzo/Marble Mason-General Foreman..... | 50.12 |

**ADD ZONE RATE**

In addition to TILE SETTER/TERRAZZO WORKER/MARBLE MASON rates add the applicable amounts per hour, calculated based on a road miles of over fifty (50) miles from the Washoe County Courthouse in Reno, Nevada:

|        |                |        |
|--------|----------------|--------|
| Zone 1 | 0 to 50 miles  | \$0.00 |
| Zone 2 | 50 to 75 miles | \$3.75 |
| Zone 3 | Over 70 miles  | \$8.13 |

**ADD PREMIUM PAY**

All work in excess of forty (40) hours during the established work week shall be paid at the rate of one and one-half (1-1/2) times the hourly base wage rate in effect.

Employees shall be paid one and one-half (1-1/2) times the hourly wage rate for all hours worked over eight (8) in a single day and double time after ten (10) hours in a single day, Monday through Friday, except recognized holidays.

Daily Overtime Saturdays the first ten (10) hours performed on Saturday shall be paid at one and one-half (1-1/2) times the straight time wage rate.

Daily Overtime Sunday- Employees shall be paid double time on Sundays if forty (40) straight time hours have been worked during the proceeding work week.

Holidays shall be paid double time for hours owed on recognized holidays.

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day. Any holiday falling on a Sunday will be observed on Monday.

**JOB DESCRIPTION:** Excerpt from Agreement between BAC 13 Nevada of the Mountain West Administrative District Council Master Labor Agreement

***TILE LAYERS' WORK:***

Tile laying shall consist of, but not be limited to, the following work procedures and installation of the following materials:

A. The laying, cutting or setting of all tile where used for floors, walls, ceilings, walks, promenade roofs, stair treads, stair risers, facings, hearths, fireplaces, and decorative inserts, together with any marble plinths, thresholds or window stools used in connection with any tile work; also, preparing and setting all concrete, cement, brickwork, or other foundation or materials that may be required to properly set and complete such work; setting or bedding all tiling, stone, marble, composition, glass, mosaic, or other materials forming the facing, hearth or fireplace of a mantel, or the mantel complete, together with setting of all cement, brickwork, or other materials required in connection with the above work; also the slabbing and fabrication of tile mantels, counters and tile panels of every description, and the erection and installation of same; the building, shaping, forming, construction or repairing of all fireplace work, whether in connection with a mantel hearth facing or not, and the setting and preparing of all material, such as cement, plaster, mortar, brickwork, iron work or other materials necessary for the proper and safe construction and completion of such work, except that a mantel made exclusively of brick, marble or stone, shall be conceded to be bricklayers', marble setters' or stonemasons' work, respectively.

B. It will be understood that the word "tile" refers to all burned clay products, as used in the tile industry, either glazed or unglazed, and to all composition materials made in single units up to 15"x20"x2", except quarry tiles larger than 9"x9"x1 1/4", also to mixtures in tile form of cement, plastics and metals that are made for and intended for use as a finished floor surface, whether upon interior or exterior floors, stair treads, promenade roofs, garden walks, interior walls, ceilings, swimming pools, and all places where tile may be used to form a finished surface for practical use, sanitary finish or decorative purposes, for setting all accessories in connection therewith, or for decorative inserts in other materials.

C. All terra cotta called unit tile in sizes of 6"x12" or under, regardless of method of installation, quarry tile 9"x9"x1 1/4" or less; split brick or quarry tile or similar material where the bed is floated or screeded and the joints grouted. Where the work is installed by tile layers, the grouting and cleaning shall be supervised by the mechanic. The bedding, jointing, and pointing of the above materials shall be the work of the craft installing the same. All clay products known as terra cotta tile, unit tile, ceramic veneer and machine-made terra cotta, and like materials in sizes 6"x12" and less regardless of the method of installation. Where the preponderance of materials to be installed comes within the provisions of this Section and when there is also some material in excess of the sizes provided for in this Section, the tile setter shall install all such materials.

D. The preparation, setup, calibration, operation, cleaning, and routine maintenance of any mechanical devices or robotics used to install tile and related materials, or that otherwise assist the tile layer in performing any of the work described in Article II and Code 1 of the IU Constitution, as well as the preparation and ongoing maintenance of the work area to allow proper installation of tile and related materials.

Craft: TRAFFIC BARRIER ERECTOR (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Traffic Barrier Erector.....43.73

**ADD ZONE RATE**

In addition to LABORER rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                    |        |
|--------|--------------------|--------|
| Zone 1 | 0 to 75 miles      | \$0.00 |
| Zone 2 | 75 to 150 miles    | \$4.00 |
| Zone 3 | 150 to 300 miles   | \$5.00 |
| Zone 4 | 300 miles and over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Veteran’s Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between AGC and LIUNA Local 169

1. Distributing traffic control signs and markers along site in designated pattern;
2. Informing drivers of detour routes through construction sites;

Craft: Truck Driver (Non-Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

**Dump Trucks (Single or Multiple Units Including Semi's & Double Transfer Units), Dumpcretes and Bulk Cement Spreader**

|  |       |
|--|-------|
| Under 4 yds. (water level).....                | 27.86 |
| 4 yds. & under 8 yds. (water level).....       | 27.86 |
| 8 yds. & under 18 yds. (water level).....      | 27.86 |
| 18 yds. & under 25 yds. ( water level ) .....  | 27.86 |
| 25 yds. & under 60 yds. (water level).....     | 27.86 |
| 60 yds. & under 75 yds. (water level) ).....   | 27.86 |
| 75 yds. & under 100 yds. (water level) ).....  | 27.86 |
| 100 yds. & under 150 yds. (water level) )..... | 27.86 |
| 150 yds. & under 250 yds. (water level) )..... | 27.86 |
| 250 yds. & under 350 yds. (water level) )..... | 27.86 |
| 350 yds. & over (water level).....             | 27.86 |

**Transit Mix**

|                                     |       |
|-------------------------------------|-------|
| Under 8 yds.....                    | 27.86 |
| Under 8 yds & including 12 yds..... | 27.86 |
| Over 12 yds.....                    | 27.86 |

**Transit Mix (Using Boom)**

|  |       |
|--|-------|
| Transit mix with boom shall receive 16 cents per hour above the appropriate yardage classification rate of pay when such boom is used..... | 27.86 |
|--|-------|

**Water & Jetting Trucks**

|  |       |
|--|-------|
| Up to 2,500 gallons.....   | 27.86 |
| Up to 2,500 gallons & over.....  | 27.86 |
| DW 20's & 21's & other similar Cat type, Terry Cobra LeTourneau pulls, Tournerocker, Euclid, & similar type equipment when pulling Aqua/Pak, Water Tank Trailers, & Fuel, and/or Grease Tank Trailer, or other miscellaneous Trailers, (except as defined under "Dump Trucks") |       |
| Heavy Duty Transport (High Bed).....   | 27.86 |
| Heavy Duty Transport(Gooseneck low bed).....   | 27.86 |
| Tiltbed or Flatbed Pull Trailers.. ..  | 27.86 |
| Bootman, Comb. Bootman & Road Oiler.....   | 27.86 |
| Flat Rack (2 or 3 axle unit).....  | 27.86 |

**Bus & Manhaul Drivers**

|                                      |       |
|--------------------------------------|-------|
| Up to 18,000 lbs. (single unit)..... | 27.86 |
| 18,000 lbs. and over .....           | 27.86 |
| Warehousemen Spotter .....           | 27.86 |

**Winch Truck & "A" Frame Drivers**

|  |       |
|--|-------|
| Up to 18,000 lbs. ....                           | 27.86 |
| 18,000 lbs. and over.....                        | 27.86 |
| Warehousemen Spotter.....                        | 27.86 |
| Warehouse Clerk.....                             | 27.86 |
| Tire Repairmen.....                              | 27.86 |
| Truck Repairmen.....                             | 27.86 |
| Pick Up Truck & Pilot Cars (Jobsite) .....       | 27.86 |
| Pick Up Truck & Pilot Cars (Over the road) ..... | 27.86 |
| Truck Oil Greaser.....                           | 27.86 |
| Fuel Truck Driver.....                           | 27.86 |
| Fuel Man & Fuel Island Man.....                  | 27.86 |
| Oil Tanker.....                                  | 27.86 |

|                          |       |
|--------------------------|-------|
| Oil Tanker with Pup..... | 27.86 |
| Foreman.....             | 27.86 |

**TRUCK DRIVER**

Includes but is not limited to:

Driving a tractor trailer combination or a truck to transport goods or materials at the site of a public work or between sites of a public work. (Also, see descriptions listed with Truck Driver rates, if any.)

Craft: WELL DRILLER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Well Driller.....30.35

**JOB DESCRIPTIONS**

1. Setting, operating or tending to portable drilling rig machinery and related equipment to drill wells;
2. Extending stabilizing jackscrews to support and level a drilling rig;
3. Installing water well pumps;
4. Drillings wells for industrial water supplies, irrigation water supplies or water supplies for any other purpose; dewatering or other similar purposes; exploration; hole drilling for geologic and hydrologic information; and core drilling for geologic information.

# GROUP CLASSIFICATIONS

---

LABORER, includes but is not limited to:

## Group 1

- All cleanup work of debris, grounds, and building including windows and tile
- Dumpmen or Spotter (other than asphalt)
- Handling and Servicing of Flares, Watchmen
- General Laborer
- Guideposts and Highway Signs
- Guardrail Erection and Dismantling
- Limber, Brushloader and Piler
- Pavement Marking and Highway Striping
- Traffic Barrier Erector
- Tending to portable space heaters
- Profilograph work all types manual, self propelled or carts
- Gabion basket, building, handling, installation and rigging
- Dry set paver work
- Traffic Barrier Erector

## Group 2

- Choker setter or Rigger (clearing work only) Pittsburgh
- Chipper and similar type brush shredders
- Concrete worker (wet or dry) all concrete work not listed in Group 3 included but not limited to: concrete forms stripping, handling, cleaning, oiling and moving to the next point of installation.
- Crusher or Grizzly Tender
- Greasing Dowels
- Guinea Chaser (Stakemen)
- Panel Forms (wood or metal) handling, cleaning and stripping of Loading and unloading, (Carrying and handling of all rods and material for use in reinforcing concrete
- Railroad Trackmen (maintenance, repair or builders)
- Sloper
- Semi-Skilled Wrecker (salvaging of building materials other than those listed in Group 3)
- Waterproofing work
- Epoxy rebar/dowels and anchoring dowel baskets
- Placement pouring of concrete including any epoxy resin or similar materials, rodding, spreading and tamping concrete, brooming or brushing, hand application of curing compounds, applying topping (wet or dry) colors or grits, and exposed finishes for architectural work
- Concrete patching, dry packing, chipping, stoning, and grouting
- Concrete cold weather/rain protection and curing
- Placement /anchoring of all earth stabilization/filters fabrics,
- Mechanically stabilized Earth (MSE) and Keystone type retaining walls rigging, placing , aligning, backfilling and installation of dead men and any stabilization compenents

## Group 3

- Asphalt Workers (Ironers, Shovelers, Cutting Machine)
- Buggymobile

- Chainsaw, Faller, Logloader and Bucker
- Compactor (all types)
- Concrete Mixer under 1/2 yard
- Concrete Pan Work (Breadpan type), handling, cleaning/stripping
- Concrete Saw, Chipping, Grinding, Sanding, Vibrator
- Cribbing, Shoring, Lagging, Trench Jacking, Hand-Guided Lagging Hammer
- Curbing or Divider machine
- Curb Setter (precast or cut)
- Ditching Machine (hand-guided)
- Drillers Helper, Chuck Tender
- Fence erector including safety, chain link, turtle, field and barbe wire fencing
- Form Raiser, Slip Forms
- Grouting of Concrete Walls, Windows and Door Jams
- Headerboardmen
- Jackhammer, Pavement Breaker, Air Spade
- Mastic Worker (wet or dry)
- Pipewrapper, Kettlemen, Potmen, and men applying asphalt, creosote and similar type materials
- All Power Tools (air, gas, or electric), Post Driver
- Riprap-Stonepaver and RockSlinger, including placing of sack concrete wet or dry Rototiller
- Rigging and Signaling in connection with Laborers' work
- Sandblaster, Potmen, Gunmen or Nozzlemen water blasting not covered in group 5A
- Vibra-screed
- All demolition and wrecking work including but not limited to any torch work cutting, burning, plasma arc, dust control, and salvaging (removing and salvaging of all materials, windows, doors, plumbing, and electrical fixtures) and use of customary tools and equipment for demolition and wrecking
- All underpinning foundation work, digging and underpinning pits, removal of debris with tuggers or other methods, cutting, handling and installing all shoring boards and lagging boards used for underpinning and foundation work, placement and tying of steel reinforcing for underpinning piers, all tiebacks and soil nail work drilling and grouting, all soldier beam work and use of customary tools and equipment for underpinning foundation work

### **Group 3A**

- Concrete Specialist
- Setting screeds
- Screed pins
- Curb forms and curb and gutter forms,
- Using Darby and push floats,
- Hand trowels or hand floating
- Marking edging
- Using base cove or step tools
- Spreading and finishing gypsum
- Concrete grinding machines (the terms does not include Rotomill machines for highway overlay grinding)
- Troweling machines,
- Floating machines
- Finishing of epoxy or resin materials,
- Operation of skill saw

- Laser Screed
- Laser Level
- Curb and Slipform machines,
- Stamps or other means or texturing,
- Any new devices which are beneficial to the construction of or with concrete or related products.

#### **Group 4**

- Burning and Welding in connection with Laborers' work
- Joy Drill Model TWM-2A, Gardner Denver Model DN143 and similar type drills (in accordance with Memorandum of Understanding between Laborers and Operating Engineers dated at Miami, Florida, Feb. 3, 1954) and Track Drillers, Diamond Core Drillers, Wagon Drillers, Mechanical Drillers on Multiple Units
- High scalers including but not limited to laying, anchoring, pinning, cabling and stretching of any rock fall netting, mesh or wire fabric and use of customary tools and equipment for high scaling
- Concrete pump operator
- Heavy Duty Vibrator with Stinger 5" diameter or over
- Pipelayer, Caulker and Bander
- Pipelayer-waterline, Sewerline, Gasoline, Conduit and all other types of composition for any purpose buried under ground outside of building including, stringing, trench shoring, backfilling sanding, caution taping, all walk behind equipment and spotting
- Laborer work in connection with micro tunneling, directional drilling and pipe-jacking
- Cathodic protection, grounding for pipe work
- Cleaning of Utility Lines
- Slip Lining of Utility Lines (including operation of Equipment)
- TV Monitoring and Grouting of Utility Lines
- Asphalt Rakers and Asphalt dump Man
- All mechanical and pressurized pipe work, including the installation of pipe above and below ground, cathodic protection, bolt up, and support installation in connection to water conveyance, c

#### **Group 4A**

- Foreman

#### **Group 5**

- Construction Specialists
- Blasters and Powdermen, all work of loading, placing, and blasting of all powder and explosives of any type, regardless of method used for such loading and placing
- Asbestos removal
- Lead abatement
- Hazardous waste
- Material removal

#### **Group 5A**

- Pavement Marking and Highway Striping
- Pavement Marking and Highway Striping Foreman
- Pavement Marking and Highway Striping work includes but is not limited to: All work by any method performed in connection with the permanent or temporary application and installation of pavement marking of any kind, brand, type or style on parking lots, airfields, highways,

streets and other such surfaces and all work performed in connection with removal of pavement.

**Group 6**

- Guniting Foremen, Nozzlemen, Rodmen, Gunmen, Materialmen, Reboundmen
  - Tunnel and shaft workers/miners and use of customary tools and equipment for tunnel and mine work All work performed in a compressed air tunnel shaft or chamber including the use of hand, power tools or equipment as necessary in connection with compressed air work
-

**OPERATING ENGINEER, includes but is not limited to:**

**Group 1**

- Engineer Assistant

**Group 1A**

- Heavy Duty Repairman Helper
- Oiler
- Parts man

**Group 2**

- Compressor Operator
- Material Loader and/or Conveyor Operator (handling building materials)
- Pump Operator

**Group 3**

- Bobcat or similar loader, 1/4 cu. yd. or less
- Concrete Curing Machines (streets, highways, airports, canals)
- Conveyor Belt Operator (tunnel)
- Forklift (under 20)
- Engineer Generating Plant (500 K.W.)
- Mixer Box Operator (concrete plant)
- Motorman
- Rotomist Operator
- Oiler (truck crane)

**Group 4**

- Concrete Mixer Operator, Skip type
- Dinky Operator
- Forklift (20' or over) or Lumber Stacker
- Ross Carrier
- Skip Loader Operator (under one (1) cu. yd.)
- Tie Spacer

**Group 5**

- Concrete Mixers (over one (1) cu. yd.)
- Concrete Pumps or Pumpcrete Guns
- Elevator and Material Hoist (one (1) drum)
- Groundman for Asphalt Milling and similar

**Group 6**

- Auger type drilling equipment up to and including 30 ft. depth digging capacity M.R.C.
- Boom Truck or Dual-Purpose a-Frame Truck
- B.L.H. Lima Road Pactor or similar
- Chip Box Spreader (Flaherty type or similar)
- Concrete Batch Plant (wet or dry)
- Concrete Saws (highways, streets, airports, canals)
- Locomotives (over thirty (30) tons)
- Maginnis International Full Slab Vibrator (airports, highways, canals and warehouses)
- Mechanical Finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types)

- Mechanical Burn, Curb and/or Curb and Gutter Machine (concrete or asphalt)
- Pavement Breaker, Truck Mounted, with compressor combination
- Pavement Breaker or Tamper (with or without compressor combination)
- Power Jumbo Operator (setting slip-forms, etc., in tunnels)
- Roller Operator (except asphalt)
- Self-Propelled Tape Machine
- Self-Propelled Compactor (single engine)
- Self-Propelled Power Sweeper Operator
- Slip-Form Pump (power-driven by hydraulic, electric, air, gas, etc. lifting device for concrete forms)
- Small Rubber-Tired Tractors
- Snooper Crane, Paxton-Mitchell or similar
- Stationary Pipe Wrapping, Cleaning and Bending Machine Operator

### **Group 7**

- Auger type drilling equipment over 30 ft. depth digging capacity M.R.C.
- Compressor (over 2)
- Concrete Conveyor or Concrete Pump, truck or equipment mounted (any assistance required shall be performed by an Assistant to Engineer) Boom length to apply Concrete Conveyor, Building Site
- Drilling and Boring Machine, vertical and horizontal (not to apply to waterliners, wagon drills or jack hammers)
- Crusher Plant Engineer
- Generators
- Kolman Loader
- Material Hoist (two (2) or more drums)
- Mine or Shaft Hoist
- Pipe Bending Machines (pipeline only)
- Pipe Cleaning Machines (tractor-propelled and supported)
- Pipe Wrapping Machines (tractor-propelled and supported)
- Portable Crushing and Screening Plants
- Post Driller And/Or Driver
- Pumps (over 2)
- Screedman (except asphaltic or concrete paving)
- Self-Propelled Boom-Type Lifting Device (center mount) (on ten (10) ton capacity or less)
- Slusher Operator
- Surface Heater and Planer Operator
- Trenching Machine (maximum digging capacity three (3) ft. depth) (Any assistance in the operation, if needed, shall be performed by an Assistant to Engineer)
- Truck-Type Loader
- Welding Machines (gasoline or diesel)

### **Group 8**

- Asphalt Plant Engineer
- Asphalt Milling Machine
- Cast-In-Place Pipe-Laying Machine
- Combination Slusher and Motor Operator
- Concrete Batch Plant (multiple units)
- Dozer Operator

- Drill Doctor
- Elevating Grader Operator
- Grooving and Grinding Machine (highways)
- Ken Seal Operator
- Loader (up to and including two and one-half (2 1/2) cu. yds)
- Mechanical Trench Shield
- Mechanical Finishers or Spreader Machine (asphalt, Barber-Greene or similar)
- Mixermobile
- Push Cats
- Road Oil Mixing Machine Operator Wood-Mixer (and other similar Pugmill equipment)
- Roller Operator (asphalt)
- Rubber-Tired Earthmoving Equipment (up to and including thirty-five (35) cu. yds. "struck " M.R.C., Euclids, T-Pulls, DW10, 20, 21 and similar)
- Screedman (Barber-Greene and similar) (asphaltic or concrete paving)
- Self-Propelled Compactors with Dozer; Hyster 450, Cat 825 or similar
- Sheepfoot
- Small Tractor (with boom)
- Soil Stabilizer (P & H or equal)
- Timber Skidder (rubber-tired) or similar equipment
- Tractor-Drawn Scraper
- Tractor Operator
- Tractor-Mounted Compressor Drill Combination
- Trenching Machine Operator (over three (3) feet depth)
- Tri-Batch Paver
- Tunnel Badger or Tunnel Boring Machine Operator
- Tunnel Mole Boring Machine
- Vermeer T-600b Rock Cutter

### **Group 9**

- Chicago Boom
- Combination Backhoe and Loader (up to and including 3/8 cu. yd.)
- Combination Mixer and Compressor (gunite)
- Heavy Duty Repairman and/or Welder
- Lull Hi-Lift (twenty (20) feet or over)
- Mucking Machine
- Sub-Grader (Gurries or other types)
- Tractor (with Boom) (D6 or larger)
- Track-Laying-Type Earthmoving Machine (single engine with tandem scrapers)

### **Group 10**

- Boom-Type Backfilling Machine
- Bridge Crane
- Caryl-Lift or similar
- Chemical Grouting Machine
- Derricks (two (2) Group 10 Operators required when swing engine remote from hoist)
- Derrick Barges (except excavation work)
- Euclid Loader and similar types
- Heavy Duty Rotary Drill Rigs
- Lift-Slab (Vagtborg and similar types)

- Loader (over two and one-half (2 1/2 cu. yds. up to and including four (4) cu. yds.)
- Locomotive (over one hundred (100) tons, single or multiple units)
- Multiple-Engine Earthmoving Machines (Euclid Dozers, etc.)
- Pre-Stress Wire Wrapping Machine
- Rubber-Tired Scraper, Self-Loading
- Single-Engine Scraper (over thirty-five (35) cu. yds.)
- Shuttle Car (Reclaim Station)
- Train Loading Station
- Trenching Machine multi-engine with sloping attachments (Jefco or similar)
- Vacuum Cooling Plant
- Whirley Crane (up to and including twenty-five (25) tons)

#### **Group 10A**

- Backhoe-Hydraulic (up to and including one (1) cu. yd.)
- Backhoe (up to and including one (1) cu. yd.) (Cable)
- CMI Dual Lane Auto-Grader SP30 or similar type
- Cranes (not over twenty-five (25) tons) (hammerhead and gantry)
- Finish Blade
- Gradalls (up to and including one (1) cu. yd.)
- Motor Patrol Operator
- Power Shovels, Clamshells, Draglines, Cranes (up to and including one (1) cu. yd.)
- Rubber-Tired Scraper, Self-Loading (twin engine)
- Self-Propelled Boom-Type Lifting Device, center mount (over 10 tons up to and including 25 tons)

#### **Group 11**

- Automatic Asphalt or Concrete Slip-Form Paver
- Automatic Railroad Car Dumper
- Canal Trimmer
- Cary Lift, Campbell or similar type
- Cranes (over twenty-five (25) tons)
- Euclid Loader when controlled from the Pullcat
- Gradesetter, Grade Checker
- Highline Cableway Operator
- Loader (over four (4) cu. yds. up to and including twelve (12) cu. yds.)
- Multi-Engine Earthmoving Equipment (up to and including seventy-five (75) cu. yds. struck m.r.c.)
- Multi-Engine Scrapers (when used to Push Pull)
- Power Shovels, Clamshells, Draglines, Backhoes Gradalls (over one (1) cu. yd. and up to and including seven (7) cu. yds. m.r.c.)
- Self-Propelled Boom-Type Lifting Device (center mount) (over 25 tons m.r.c.)
- Self-Propelled Compactor (with multiple-propulsion power units)
- Single-Engine Rubber-Tired Earthmoving Machine, with Tandem Scraper
- Slip-Form Paver (concrete or asphalt)
- Tandem Cats and Scraper
- Tower Crane Mobile (including Rail Mount)
- Truck Mounted Hydraulic Crane when remote control equipped (over 10 tons up to and including 25 tons)
- Universal Liebherr and Tower Cranes (and similar types)

- Wheel Excavator (up to and including seven hundred fifty (750) cu. yds. per hour)
- Whirley Cranes (over twenty-five (25) tons)

**Group 11A**

- Band Wagons (in conjunction with Wheel Excavators)
- Operator of Helicopter) when used in construction work)
- Loader (over twelve (12) cu. yds.)
- Multi-Engine Earthmoving Equipment (over seventy-five (75) cu. yds. "struck" m.r.c.)
- Power Shovels. Clamshells, Draglines, Backhoes, and Gradalls (over seven 7 cu. yds. m.r.c.)
- Remote-Controlled Earth Moving Equipment
- Wheel Excavator (over seven hundred fifty (750) cu. yds. per hour)

**Group 11B**

- Holland Loader or similar or Loader (over 18 cu. yds.)
- 

**OPERATING ENGINEERS - Steel Fabricator & Erector**

**Group 1**

- Cranes over 100 tons
- Derrick over 100 tons
- Self-Propelled Boom Type Lifting Devices over 100 tons

**Group 2**

- Cranes over 45 tons up to and including 100 tons
- Derrick, 100 tons and under
- Self-Propelled Boom Type Lifting Device, over 45 tons
- Tower Crane

**Group 3**

- Cranes, 45 tons and under
- Self-Propelled Boom Type Lifting Device, 45 tons and under

**Group 4**

- Chicago Boom
- Forklift, 10 tons and over
- Heavy Duty Repairman/Welder

**Group 5**

- Boom Cat
- 

**OPERATING ENGINEER -PILEDRIIVER**

**Group 1**

- Derrick Barge Pedestal mounted over 100 tons
- Clamshells over 7 cu. yds.
- Self-Propelled Boom Type Lifting Device, over 100 tons
- Truck Crane or Crawler, land or barge mounted over 100 tons

**Group 2**

- Derrick Barge Pedestal mounted 45 tons up to and including 100 tons
- Clamshells up to and including 7 cu. yds.
- Self-Propelled Boom Type Lifting Device over 45 tons
- Truck Crane or Crawler, land or barge mounted, over 45 tons up to and including 100 tons

**Group 3**

- Derrick Barge Pedestal mounted under 45 tons
- Self-Propelled Boom Type Lifting Device 45 tons and under
- Skid/Scow Piledriver, any tonnage
- Truck Crane or Crawler, land or barge mounted 45 tons and under

**Group 4**

- Assistant Operator in lieu of Assistant to Engineer
- Forklift, 10 tons and over
- Heavy Duty Repairman/Welder

**Group 5**

No current classification

**Group 6**

- Deck Engineer

**Group 7**

No current classification

**Group 8**

- Deckhand
  - Fireman
-



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## 2021-2022 Prevailing Wage Rate Amendment 1

### Amendment 1

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- AMENDMENT 1
- Classification – Ironworker Zone Rate correction
- County – All Regions
- Effective – October 4, 2021

The following represents the amended wage rates.

#### ADD ZONE RATE

In addition to Iron Worker rates add the applicable amounts per DAY, calculated based on a road mile from the Reno or Las Vegas City Hall.

|         |                    |         |
|---------|--------------------|---------|
| Zone 1- | 60 - 75 Miles      | \$20.00 |
| Zone 2- | 75 - 100 Miles     | \$25.00 |
| Zone 3- | 100 miles and over | \$75.00 |



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## 2021-2022 Prevailing Wage Rate Amendment 1a

### Amendment 1a

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- AMENDMENT 1a
- Classification – Ironworker Wage and Zone Rate combined
- County – All Regions
- Effective – October 11, 2021

The following represents the amended wage rates.

Craft: Ironworker (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                   |       |
|-----------------------------------|-------|
| -                                 |       |
| Ironworker - Journeyman.....      | 79.90 |
| Ironworker - Foreman.....         | 81.20 |
| Ironworker - General Foreman..... | 85.93 |

### ADD ZONE RATE

In addition to Iron Worker rates add the applicable amounts per day, calculated based on a road mile from the Reno or Las Vegas City Hall.

|        |                    |         |
|--------|--------------------|---------|
| Zone 1 | 60 – 75 miles      | \$20.00 |
| Zone 2 | 75 - 100 miles     | \$25.00 |
| Zone 3 | 100 miles and over | \$75.00 |

### ADD PREMIUM PAY

One and one half (1X) the regular straight time hourly rate shall be paid:

For the first two (2) hours worked in excess of eight (8) on a regular workday Monday-Friday

For the first eight (8) hours on Saturday

Double the regular straight time hourly rate shall be paid for all time:

For all hours worked over ten (10) hours in one day or shift.

For any hours worked on Sunday.

For all hours worked over eight (8) on Saturday

For all hours worked on Holidays

Shift Pay

1. 2nd shift add 6% of hourly wage
2. 3rd shift add 13% of hourly wage
3. Dedicated shift add 6% of hourly wage

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.



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## 2021-2022 Prevailing Wage Rate Amendment 5

### Amendment 5

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- AMENDMENT 5
- Classification – Mechanical Insulator ZONE RATE
- County – Washoe County and Northern Nevada Rural Regions
- Effective – November 12, 2021

The following represents the amended wage rates.

Craft: MECHANICAL INSULATOR ZONE PAY(Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

#### ADD ZONE RATE

In addition to MECHANICAL INSULATOR rates add the applicable amounts per DAY, calculated based on a radius figured from Reno City Hall:

|        |                |         |
|--------|----------------|---------|
| Zone 1 | 0 to 20 miles  | \$11.00 |
| Zone 2 | 21 to 40 miles | \$21.00 |
| Zone 3 | 41 to 60 miles | \$31.00 |
| Zone 4 | Over 60 miles  | \$85.00 |



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## 2021-2022 Prevailing Wage Rate Amendment 6

### Amendment 6

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- AMENDMENT 6
- Classification – Laborer Recognized Holidays
- County – Washoe County and Northern Nevada Rural Regions
- Effective – November 23, 2021

The following represents the amended wage rates.

Craft: Laborer(Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

#### **RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday.

New Year's Day, President's Day, Memorial Day, Fourth of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

CONTRACT FORM

CONTRACT #3930

This Contract, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between the State of Nevada Department of Transportation, hereinafter called the Department, and \_\_\_\_\_, of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, hereinafter called the Contractor.

Witnesseth: The Contractor agrees with the Department that, for the consideration and agreements hereinafter mentioned and contained to be made and performed by the Department, and under the conditions expressed in a bond bearing even date with these presents, and hereunto annexed, that the Contractor shall and will at its own proper cost and expense, do all the work and furnish all the materials necessary for the substantial construction and completion, and to the satisfaction of the Department, of a portion of the highway system of the State of Nevada, being in the County of Washoe, on SR 659, Route Section SR659-1, Mileposts MP WA 17.05 to MP WA 17.90, to mill and fill, hereinafter called the Project, in strict conformity, in every part and particular, with the Department's Standard Specifications for Road and Bridge Construction 2014, Project Plans, Project Special Provisions, and Project Invitation to Bid which are made a part hereof, and in full compliance with the terms of this Contract.

And the Contractor hereby further agrees to receive and accept the prices set forth in the Proposal – Contract #3930, Total Proposal Amount: \_\_\_\_\_ (\$ \_\_\_\_\_) hereto annexed and thereby made a part of this Contract, as full compensation for furnishing all materials and labor, and the doing of all work, in strict accordance with the plans, special provisions and specifications hereinbefore mentioned, to the satisfaction of the Engineer and in the manner and under the conditions hereinbefore specified.

The Department hereby promises and agrees with the Contractor, to employ, and does hereby employ, the Contractor to provide the materials and do the work according to the terms and conditions herein contained and referred to, for the prices aforesaid, and hereby contracts to pay the same at the time, in the manner, and upon the conditions set forth herein; and the parties themselves, their heirs, executors, administrators, successors, and assigns, do hereby agree to the full performance of the covenants herein contained. The Contractor further agrees that no moneys payable under this Contract shall be assigned by power of attorney, or otherwise, except upon the written consent of the Department.

In the event that a Bidder's Preference was applied to the Contractor's Proposal and Bidder's Preference contributed to the Contractor being awarded the Contract, pursuant to subsection 2 of NRS 338.1389, subsection 2 of NRS 338.147, subsection 3 of NRS 338.1693, subsection 3 of NRS 338.1727 or subsection 2 of NRS 408.3886 a contractor must submit to the Department a signed affidavit which certifies that, for the duration of the project, collectively, and not on any specific day:

- (a) At least 50 percent of the workers employed on the project, including, without limitation, any employees of the Contractor and of any subcontractor engaged on the project, will hold a valid driver's license or identification card issued by the Department of Motor Vehicles of the State of Nevada;
- (b) All vehicles used primarily for the project will be:
  - 1. Registered and partially apportioned to Nevada pursuant to the International Registration Plan, as adopted by the Department of Motor Vehicles pursuant to NRS 706.826; or
  - 2. Registered in this State.
- (c) The Contractor and any subcontractor engaged on the project will maintain and make available for inspection within this State his or her records concerning payroll relating to the project.

Contractor agrees that failure to comply with any requirement of paragraphs (a) to (c), inclusive, above at any time during the entire duration of the Project is a material breach of this Contract and entitles the Department to liquidated damages against the party responsible for a failure to comply with a requirement of paragraphs (a) to (c), inclusive above. If a party to the Contract causes a material breach of contract between the Contractor and the Department as a result of a failure to comply with paragraphs (a) to (c), inclusive, above, the party is liable to the Department for liquidated damages in the amount of one percent (1%) of the cost of the largest contract to which he or she is a party. The Department may recover this amount directly against the party that causes the material breach, and no other party is liable to the Department for liquidated damages. These damages are not intended as a penalty. Damages are difficult to ascertain, and the Parties agree that this amount is a reasonable estimate of presumed actual damages. Contractor must provide in any contract between Contractor and any subcontractor for the apportionment of liquidated damages assessed pursuant to this section if a person other than Contractor was responsible for the breach of this Contract for the Project caused by a failure to comply with a requirement of paragraphs (a) to (c), inclusive, above. The apportionment of liquidated damages must be in proportion to the responsibility of each party for the breach.

During the performance of this contract, the contractor, for itself, its assignees and successors in interest agrees as follows:

- (1) **Compliance with Regulations:** The Contractor shall comply with the Regulation relative to nondiscrimination in federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, and the Federal Highway Administration (hereinafter "FHWA") Title 23, Code of Federal Regulations, Part 200 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- (2) **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, or national origin, and low- income status in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by 49 CFR, section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- (3) **Solicitations for Subcontractors, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, or national origin and low income status.
- (4) **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Nevada Department of Transportation (hereinafter, "NDOT") or the FHWA to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the NDOT, or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, the NDOT shall impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:
  - a. withholding of payments to the Contractor under the contract until the Contractor complies, and/or
  - b. cancellation, termination or suspension of the contract, in whole or in part.

(6) **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

It is further agreed, by and between the parties hereto, that should there be any conflict between the terms of this Contract and the Proposal of the Contractor, then this Contract shall control, and nothing herein shall be considered an acceptance of the terms of such Proposal conflicting therewith.

And the Contractor hereby further agrees that the payment of the final amount due under this Contract shall release the State of Nevada and the Department of Transportation from any and all claims or liability on account of work performed under this Contract other than such claims, if any, as may be specifically excepted by the Contractor in writing at the time final payment is made.

In Witness Whereof, each party to the presents have hereunto caused this Contract to be executed by a duly authorized representative as of the year and date first above written.

**Attested:**

**STATE OF NEVADA**

Through the Department of Transportation

\_\_\_\_\_  
Director, Department of Transportation

\_\_\_\_\_  
Chairman, Board of Directors, Department of Transportation

**Dated:** \_\_\_\_\_

**Approved as to Form and Legality:**

\_\_\_\_\_  
Deputy Attorney General, Chief Counsel

**By:** \_\_\_\_\_

\_\_\_\_\_  
Name and Title



PAYMENT BOND

Whereas, the Nevada Department of Transportation, hereinafter designated as "NDOT", has awarded to \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, hereinafter designated "PRINCIPAL", Contract #3930 dated \_\_\_\_\_ for the following work: Construction of a portion of the State Route Highway System in Washoe County, on SR 659, to mill and fill; and

Whereas, PRINCIPAL is required under the terms of said Contract and by law to furnish a Bond for labor and materials used in said Contract;

Now therefore, we PRINCIPAL, and

\_\_\_\_\_  
(Surety Company Name and Primary Address)

hereinafter designated "SURETY", are held and firmly bound unto NDOT, in the sum of \_\_\_\_\_ (\$\_\_\_\_\_), lawful money of the United States, being not less than one hundred percent (100%) of the estimated contract cost of the work, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above-bounden PRINCIPAL's heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and faithfully perform the covenants, conditions, and agreements in the Contract and any alterations made as therein provided, on PRINCIPAL's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning; and shall indemnify and save harmless NDOT, its officers and agents, as therein stipulated; then this obligation shall become null and void. Otherwise, it shall be and remain in full force and virtue.

SURETY, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of Contract, or to the work to be performed thereunder, shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work.

And SURETY, for value received, hereby stipulates and agrees, if requested to do so by NDOT, to perform and fully complete the work mentioned and described in said Contract, pursuant to the terms, conditions and covenants thereof, if for any cause, said Principal fails or neglects to so perform and fully complete said work; the said SURETY further agrees to commence said work to full completion within twenty (20) days after notice thereof from NDOT, and to fully complete the same with all due diligence and in accordance with the plans and specifications.

And SURETY, for value received, further stipulates and agrees that should NDOT incur attorney's fees or other expenses for the enforcement of the Contract or this Bond, the same shall be paid by SURETY to NDOT.

The Surety Company hereby certifies that it is duly authorized by certificate of authority issued by the State of Nevada Division of Insurance to conduct business in the State of Nevada.

By: \_\_\_\_\_  
Attorney in Fact (on file with the NV Division of Insurance)

By: \_\_\_\_\_  
Signature on behalf of Principal

Name:

Name and Title:

Date:

\_\_\_\_\_  
Name of Resident Agent

\_\_\_\_\_  
Resident Agent Street Address

\_\_\_\_\_  
Resident Agent City and State

NOTE TO SURETY ON BOND: Certificates of authority for Attorneys in Fact must be on file with the Department of Transportation and the Insurance Commissioner of the State of Nevada.

**Approval of Bond**

Bond No(s):

\_\_\_\_\_  
Deputy Attorney General of the State of Nevada

\_\_\_\_\_  
Date

|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | 1         |

INDEX OF SHEETS

- 1 TITLE SHEET AND LOCATION SKETCH
- 2 TYPICAL CROSS SECTIONS
- 3 SUMMARY OF QUANTITIES
- SD1 - SD2 SPECIAL DETAILS
- ST1 - ST5 PERMANENT STRIPING DETAILS
- S1 - S3 STRUCTURE LIST

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

FOR CONSTRUCTION

06/03/2022 - 100% SUBMITTAL

CONSTRUCTION PLANS

PROJECT LOCATION

WASHOE COUNTY

PROJECT SPSR-0659(004)

SR 659-WA 17.05 TO 17.90

SR659 FROM 0.01 MILES NORTH OF NUGGET AVE.  
TO 0.061 MILES SOUTH OF GREG ST.

DESIGN CRITERIA

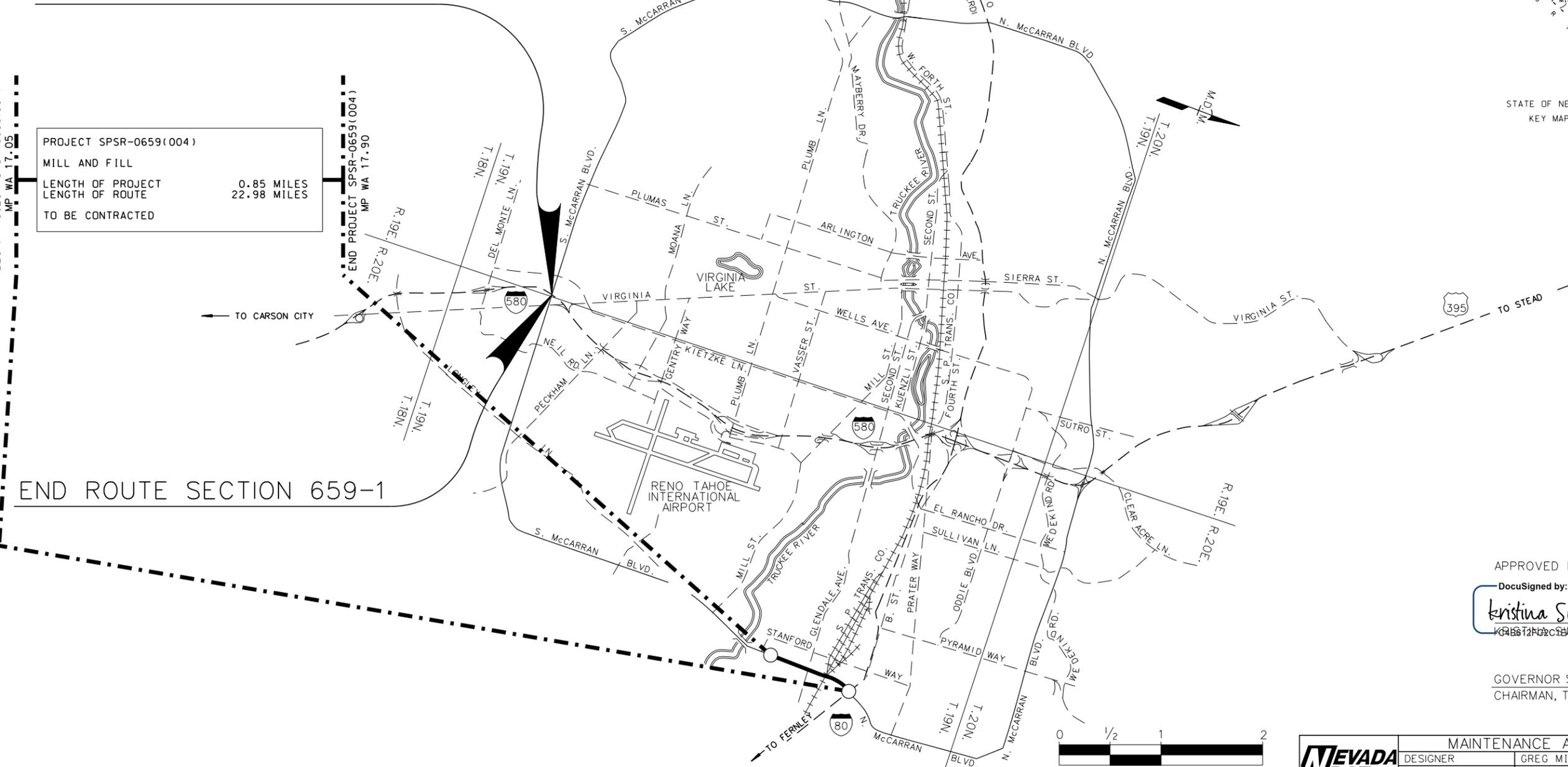
- 2018 AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS
- 2009 MUTCD
- 2011 ROADSIDE DESIGN GUIDE
- 2019 NDOT DESIGN GUIDE
- 2020 NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION
- 2014 NDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

ALL WORK AND WORK-RELATED ACTIVITIES MUST REMAIN WITHIN THE ROADWAY SECTION OF IMPROVEMENT



BEGIN ROUTE SECTION 659-1

|                        |             |
|------------------------|-------------|
| PROJECT SPSR-0659(004) |             |
| MILL AND FILL          |             |
| LENGTH OF PROJECT      | 0.85 MILES  |
| LENGTH OF ROUTE        | 22.98 MILES |
| TO BE CONTRACTED       |             |



END ROUTE SECTION 659-1

APPROVED MAY 10, 2022

DocuSigned by:  
*Kristina Swallow*, DIRECTOR, DEPT. OF TRANSPORTATION

GOVERNOR STEVE SISOLAK  
CHAIRMAN, TRANSPORTATION BOARD

|                                  |              |                      |
|----------------------------------|--------------|----------------------|
| MAINTENANCE AND ASSET MANAGEMENT |              |                      |
| DESIGNER                         | GREG MINDRUM | PHONE (775) 888-7859 |
| PROJECT MANAGER                  | ALLISA ROOT  | PHONE (775) 888-7121 |

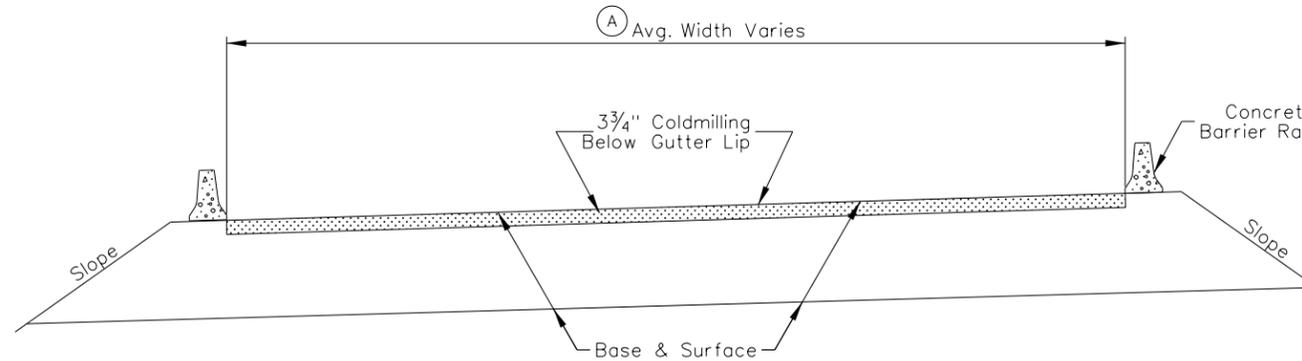
|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | 2         |

- LEGEND -

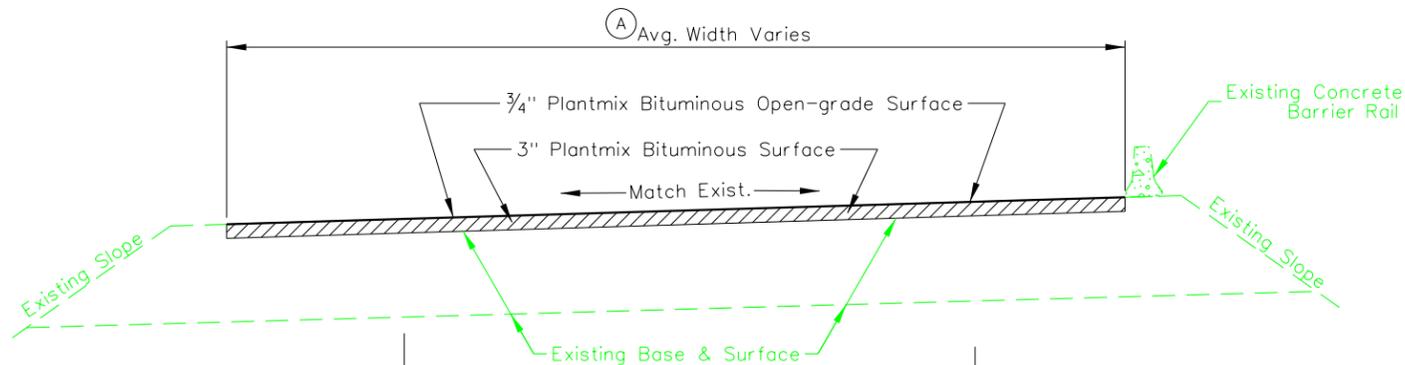
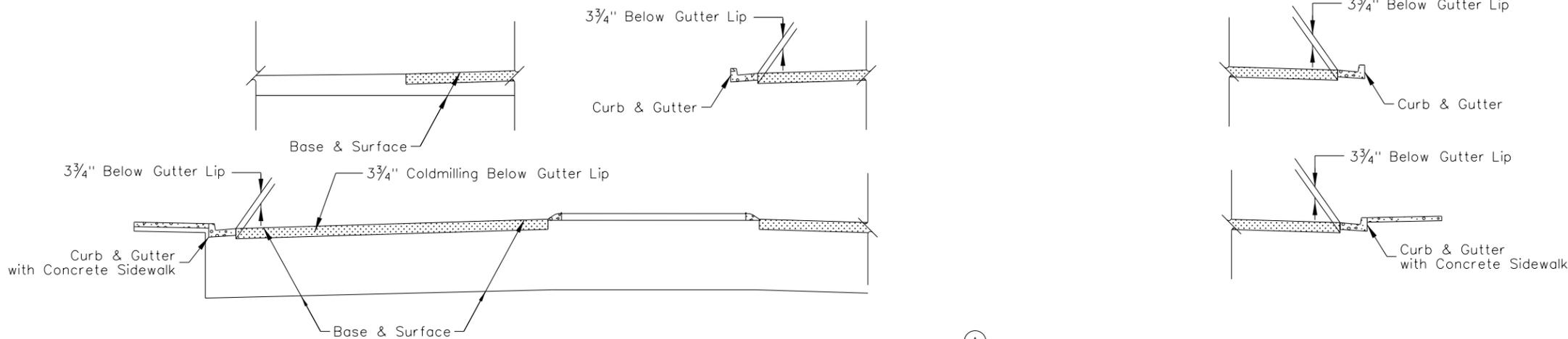
 - LIMITS OF REMOVAL (COLD MILLING)

NOTES:  $3\frac{3}{4}$ " OPEN-GRADED BITUMINOUS SURFACE SHALL BE TRANSITIONED TO MATCH EXISTING PAVEMENT SURFACE AT STREET INTERSECTIONS.  
 $3\frac{3}{4}$ " OPEN-GRADED BITUMINOUS SURFACE TO BE PAVED FLUSH WITH GUTTER AND INLET GRATES.  
 COLD MILL  $3\frac{3}{4}$ " BELOW TOP OF DRAINAGE INLET GRATES WHERE THEY OCCUR. PROTECT INLETS IN PLACE.  
 COLD MILL  $3\frac{3}{4}$ " BELOW GUTTER LIP.

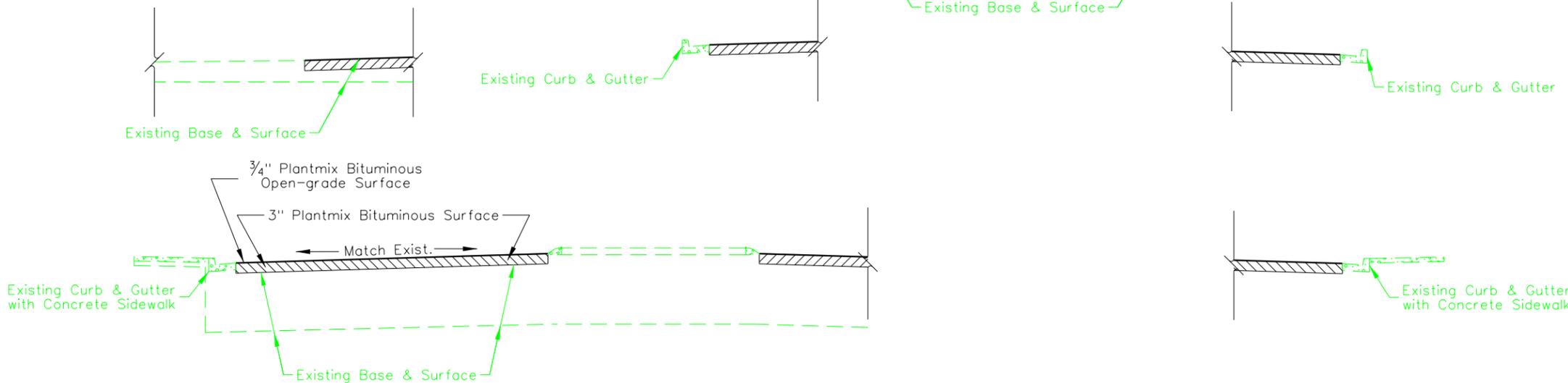
(A) SEE SUMMARY SHEET 3 FOR AVERAGE WIDTH.



AS CONSTRUCTED



SECTION OF IMPROVEMENT



STATE OF NEVADA  
 DEPARTMENT OF TRANSPORTATION

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SR659  
 N MCCARRAN BLVD  
 TYPICAL SECTION

### SUMMARY OF BASE AND SURFACE QUANTITIES

NOTE: QUANTITIES SHOWN IN THE SUMMARIES FOR SURFACE MATERIALS ARE THEORETICAL AND USED FOR ESTIMATING PURPOSES ONLY.  
ACTUAL SPREADS SHALL BE VARIED AS REQUIRED TO OBTAIN THE DEPTH OF THE VARIOUS COURSES SHOWN ON THE TYPICAL SECTIONS.

|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | 3         |

| LOCATION   | AREA         | AVERAGE WIDTH | PLANTMIX DENSE GRADE SURFACE<br>TYPE 2 (WET) |     |                 | PLANTMIX OPEN GRADE SURFACE<br>(3/8-INCH) (WET) |      |                 | COLD MILLING | MISC COLD MILLING<br>(5% OF COLD MILLING) |
|--|--------------|---------------|--|-----|-----------------|---|------|-----------------|--------------|---|
|  |              |               | AREA   |     | UNIT            | AREA  |      | UNIT            |              |   |
|  |              |               | FT <sup>2</sup>                              | FT  | YD <sup>2</sup> | DEPTH (INCHES)                                  | TONS | YD <sup>2</sup> |              |   |
| <b>SR 659 McCarran Blvd.</b>                           |              |               |  |     |                 |   |      |                 |              |   |
| MILL & FILL  |              |               |  |     |                 |   |      |                 |              |   |
| ST1 - frm Nugget<br>MP WA 17.23 to MP WA 17.28         | 105,775.69   | 103.00        | 11753  | 3.0 | 1917            | 11753   | 0.75 | 451             | 11753        |   |
| ST2 - btwn Nugget and Glendale                         | 108,378.95   | 114.00        | 12042  | 3.0 | 1964            | 12042   | 0.75 | 462             | 12042        |   |
| ST3 - Glendale   | 109,622.56   | 111.00        | 12180  | 3.0 | 1987            | 12180   | 0.75 | 467             | 12180        |   |
| ST4 - Kresge   | 123,295.67   | 109.00        | 13700  | 3.0 | 2235            | 13700   | 0.75 | 526             | 13700        |   |
| ST5 - Greg   | 64,734.10    | 109.00        | 7193   | 3.0 | 1174            | 7193  | 0.75 | 276             | 7193         |   |
| <b>SHOULDER DIKE - TYPE B (See Standard Plan RB-7)</b> | <b>LINFT</b> | <b>DEPTH</b>  |  |     |                 |   |      |                 |              |   |
| ST5 - Greg - Repair Section                            | 16.00        | 3.75          |  |     | 0.50            |   |      |                 |              |   |
| <b>SR 659 TOTALS</b>                                   |              |               | <b>56867</b>                                 |     | <b>9278</b>     |   |      | <b>2182</b>     | <b>56867</b> | <b>2843</b>                               |

| SUMMARY OF MILLINGS                   |              |
|---------------------------------------|--------------|
|                                       | UNIT<br>TONS |
| TOTAL MILLINGS GENERATED              | 11847        |
| CONTRACTOR RAP @ 15%                  | 1719         |
| MILLINGS TO BE DISPOSED BY CONTRACTOR | 10128        |

#### THEORETICAL APPLICATION OF SURFACING MATERIALS

|  |        |                     |
|--|--------|---------------------|
| ASPHALT CEMENT, GRADE PG64-28NV or PG64-28NVTR (TYPE 2) (DENSE GRADE)      | 6.00   | %                   |
| ASPHALT CEMENT, GRADE PG64-28NV or PG64-28NVTR (3/8" SIZE) (OPEN GRADE)    | 7.50   | %                   |
| MINERAL FILLER   | 1.50   | %                   |
| SPECIFIC GRAVITY   | 2.65   |                     |
| EMULSIFIED ASPHALT Type SS1-H (Diluted)                                    |        |                     |
| Tack Cold Milled Surface   | 0.10   | gal/yd <sup>2</sup> |
| Tack Plantmix Surface Existing   | 0.06   | gal/yd <sup>2</sup> |
| Tack Open Grade  | 0.07   | gal/yd <sup>2</sup> |
| SAND BLOTTER   | 8.00   | lb/yd <sup>2</sup>  |
| AGGREGATE BASE UNIT WEIGHT   | 138.50 | lb/ft <sup>3</sup>  |
| DENSE-GRADED PLANTMIX WET WEIGHT   | 1.957  | ton/yd <sup>3</sup> |
| OPEN-GRADED PLANTMIX WET WEIGHT  | 1.840  | ton/yd <sup>3</sup> |
| COLD MILLINGS UNIT WEIGHT - (COMPACTED TO BE USED AS SHOULDERING MATERIAL) | 1.69   | ton/yd <sup>3</sup> |
| COLD MILLINGS UNIT WEIGHT (COLD MILLED MATERIAL TO BE STOCKPILED)          | 1.50   | ton/yd <sup>3</sup> |
| IN-PLACE PLANTMIX MATERIAL, PRIOR TO MILLING                               | 2.00   | ton/yd <sup>3</sup> |

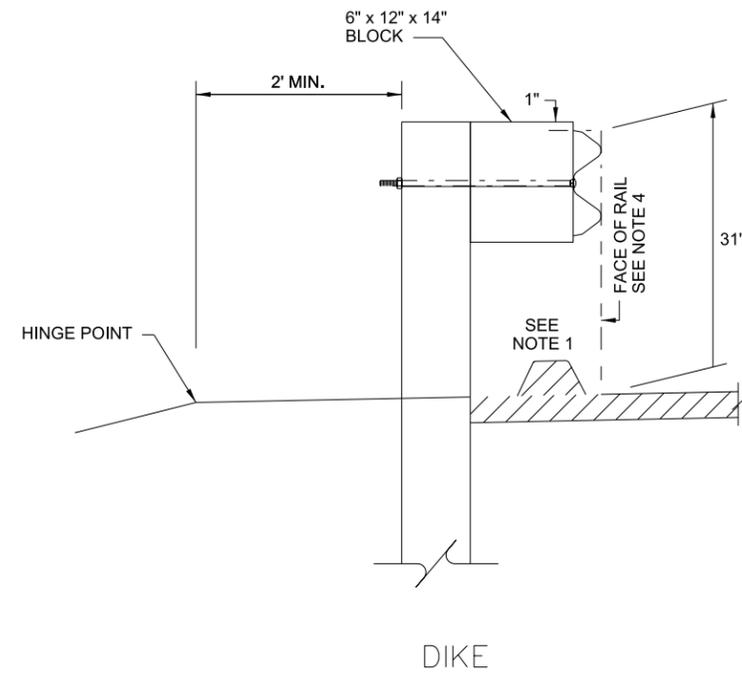
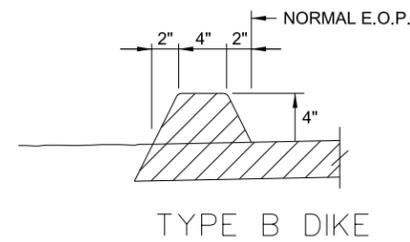
| ASPHALT CEMENT AND MINERAL FILLER QUANTITIES<br>(FOR INFORMATIONAL PURPOSES ONLY) | PG64-28NV<br>TONS | MINERAL FILLER<br>TONS |
|---|-------------------|------------------------|
| DENSE GRADE - TYPE 2:   | 518               | 8                      |
| OPEN-GRADE:   | 122               | 2                      |
| <b>USE TOTAL:</b>   | <b>640</b>        | <b>10</b>              |

- LEGEND -

-  - CLASS AA CONCRETE
-  - PLANTMIX BITUMINOUS, DENSE-GRADE

NOTES:

1. When dike or curb is placed under Midwest Guardrail System, the maximum height of the dike or curb shall be 6-inches. Mountable dike or curb should not be used.
2. Fill and compact with shouldering material to top back of curb as directed by the Engineer.
3. 12-inch blockouts must be used for these applications. 8-inch blockouts are not allowed.
4. Dike or curb must be kept behind the face of rail.

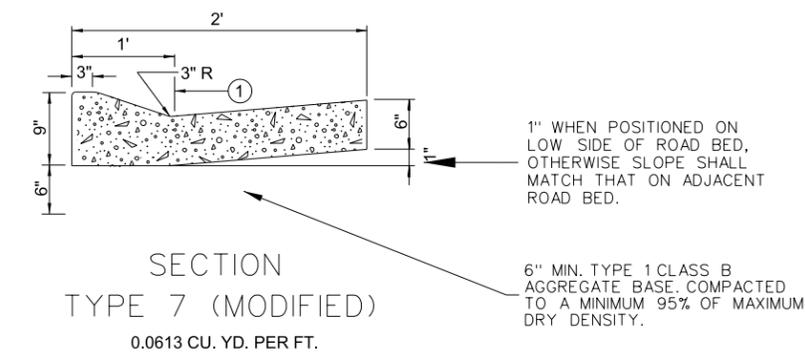


NOTES:

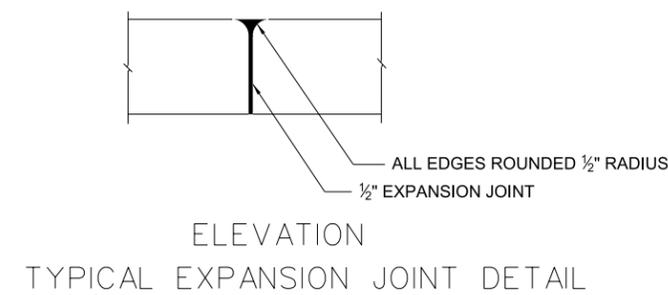
1. When distance between back of curb on islands is 4-feet or less, use 4-inches of class A or AA concrete island paving and 2-inches of aggregate base.
2. Concrete shall be class A or AA.
3. Concrete unit volume for information only.

LEGEND:

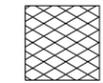
① - THIS LINE SHOULD BE USED TO DIMENSION OFFSETS



| BID ITEM | UNIT | DESCRIPTION              | QUANTITY |
|----------|------|--------------------------|----------|
| 3020140  | CUYD | TYPE 1 CLASS B AGG. BASE | 15.0     |

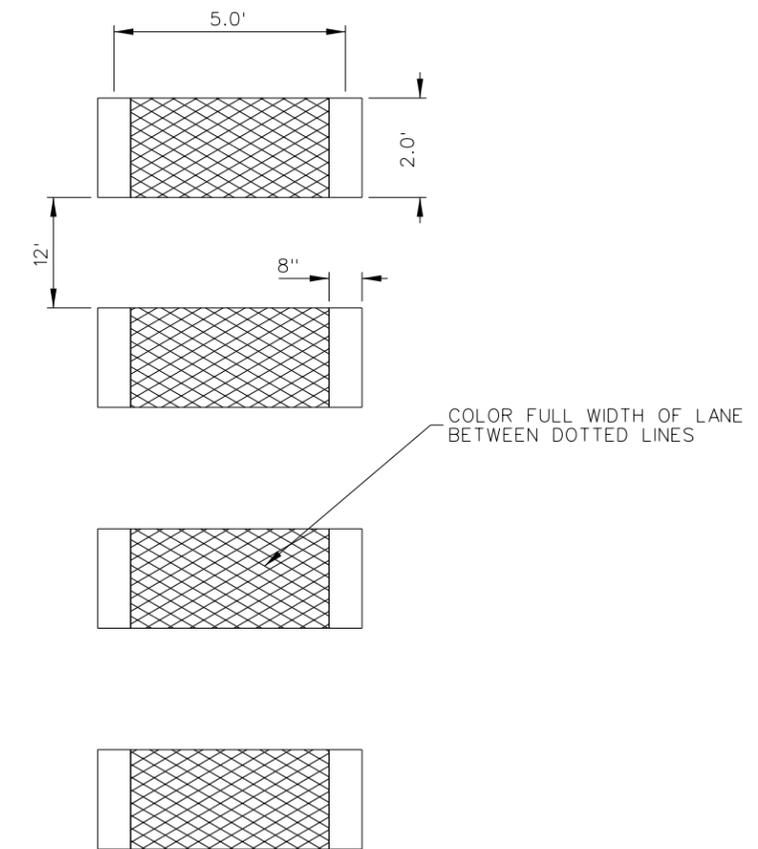


- LEGEND -

-  - GREEN PAINT

NOTES:

- GREEN COLORING MEETING THE CHROMATICITY COORDINATED IN THE FHWA MEMO, "INTERIM APPROVAL FOR OPTIONAL USE OF GREEN COLORED PAVEMENT FOR BIKE LANES".
- GREEN PAINT TO BE PAID FOR AS THERMOPLASTIC PAVEMENT MARKING (VARIES).



8" DOTTED WHITE BIKE LINE  
(BIKE CONFLICT ZONE)

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

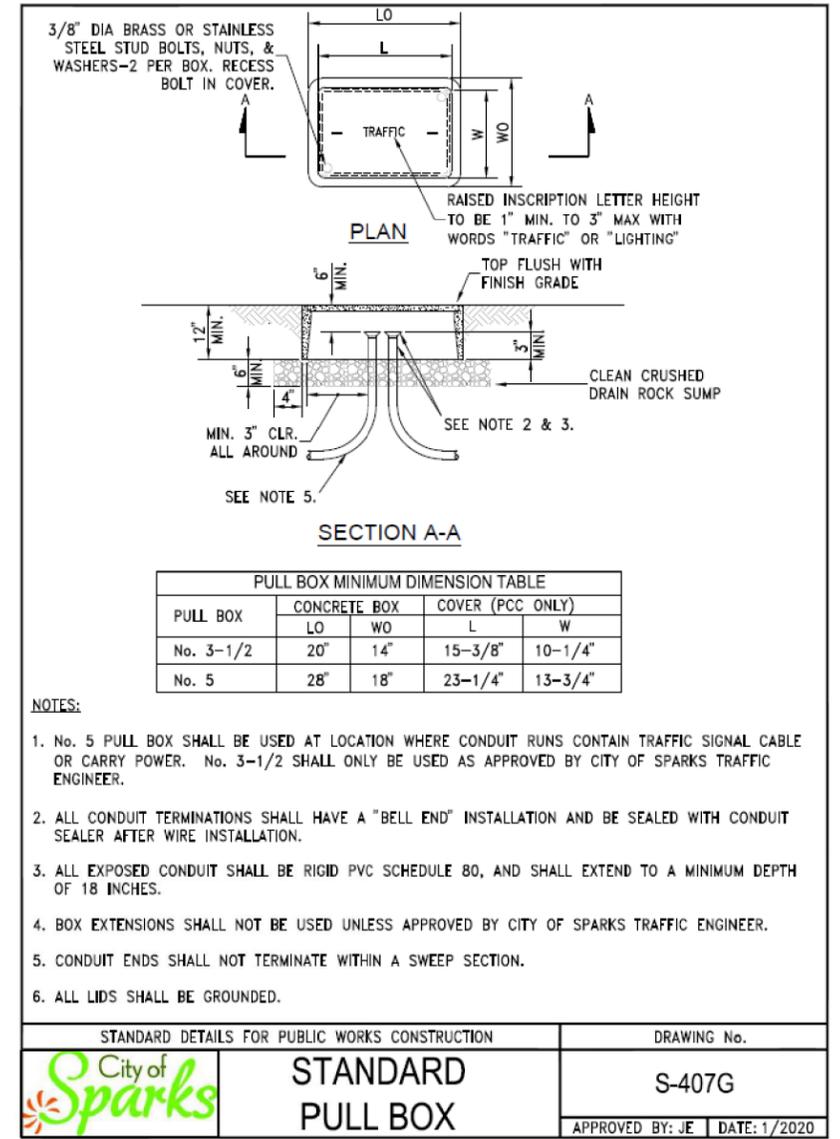
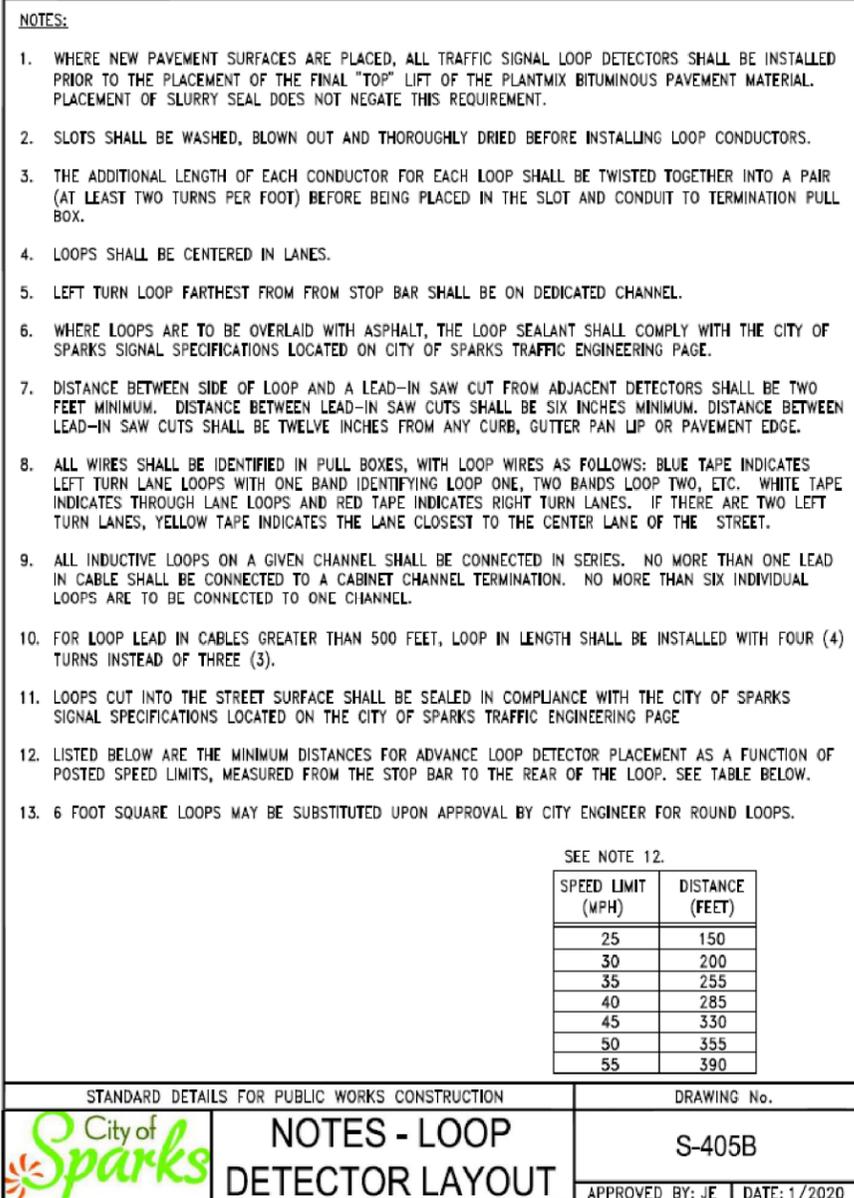
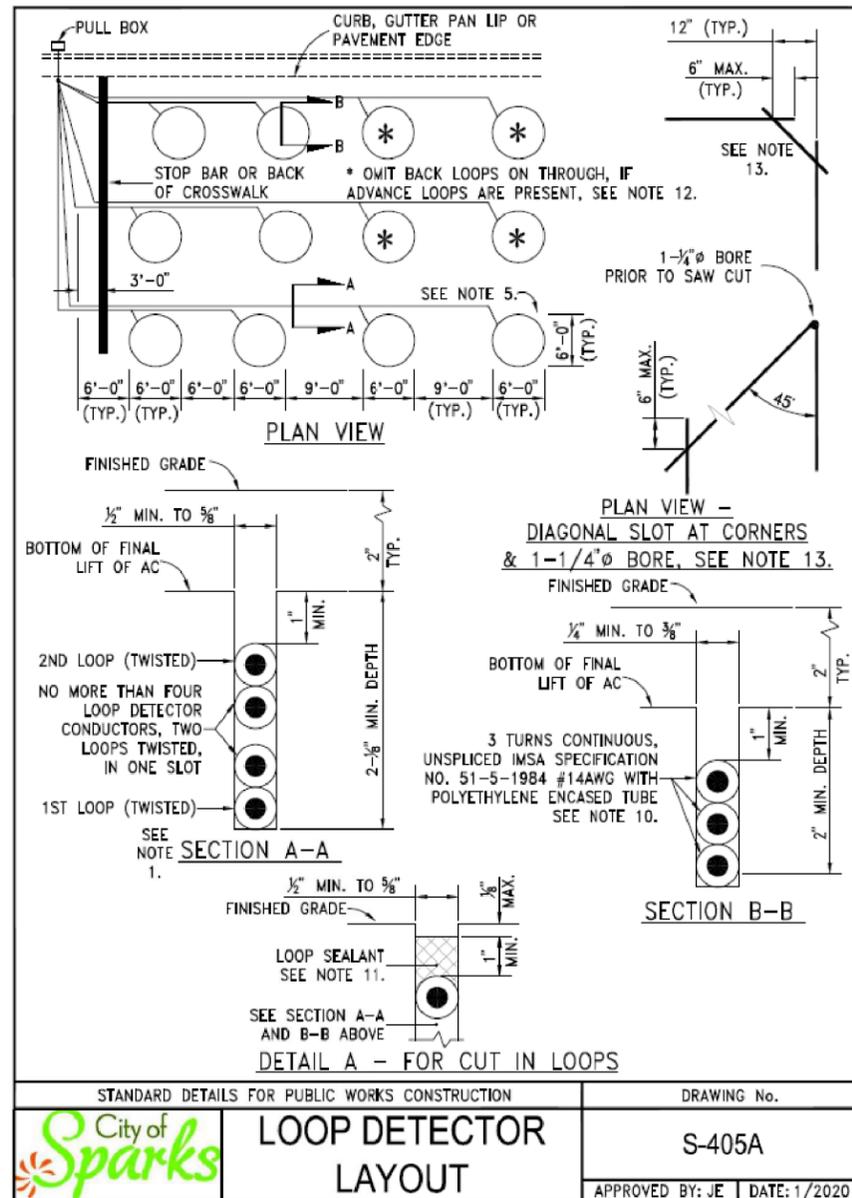
SR 659  
SPECIAL DETAILS

|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | SD2       |

**NOTES:**

CITY OF SPARKS DETAILS PROVIDED BY THE CITY OF SPARKS, WHICH IS SOLELY RESPONSIBLE FOR THE CONTENT.

DETAILS PROVIDED FOR INFORMATION ONLY, CONTRACTOR TO COORDINATE CONSTRUCTION OF DETECTOR LOOPS WITH CITY OF SPARKS. (SEE SECTION 107.17 OF SPECIFICATIONS)



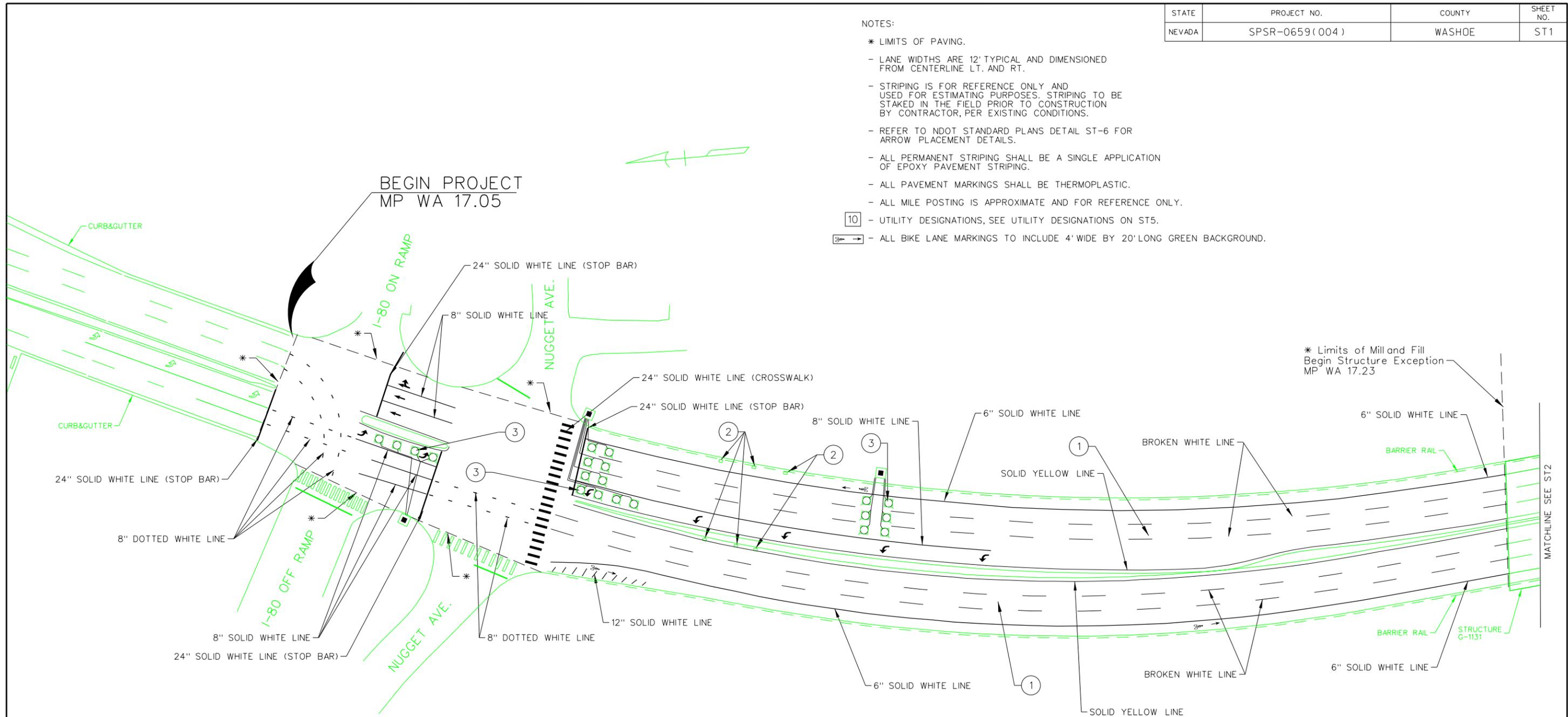
STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

SR 659  
SPECIAL DETAILS

|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | ST1       |

NOTES:

- \* LIMITS OF PAVING.
- LANE WIDTHS ARE 12' TYPICAL AND DIMENSIONED FROM CENTERLINE LT. AND RT.
- STRIPING IS FOR REFERENCE ONLY AND USED FOR ESTIMATING PURPOSES. STRIPING TO BE STAKED IN THE FIELD PRIOR TO CONSTRUCTION BY CONTRACTOR, PER EXISTING CONDITIONS.
- REFER TO NDOT STANDARD PLANS DETAIL ST-6 FOR ARROW PLACEMENT DETAILS.
- ALL PERMANENT STRIPING SHALL BE A SINGLE APPLICATION OF EPOXY PAVEMENT STRIPING.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- ALL MILE POSTING IS APPROXIMATE AND FOR REFERENCE ONLY.
- 10 - UTILITY DESIGNATIONS, SEE UTILITY DESIGNATIONS ON ST5.
- - ALL BIKE LANE MARKINGS TO INCLUDE 4' WIDE BY 20' LONG GREEN BACKGROUND.



BEGIN PROJECT  
MP WA 17.05

\* Limits of Mill and Fill  
Begin Structure Exception  
MP WA 17.23

MATCHLINE SEE ST2

- ① COLD MILL SURFACE
- ② STORMWATER GRATES & TRENCH DRAINS, PROTECT IN PLACE.
- ③ INSTALL CITY OF SPARKS TRAFFIC LOOPS. CALL WAYNE YOUNT FOR THE TRAFFIC INFORMATION DIVISION AT (775) 691-7258, FIVE (5) WORKING DAYS / 120 HOURS PRIOR TO CUTTING LOOPS FOR EXACT PLACEMENT LOCATION.

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

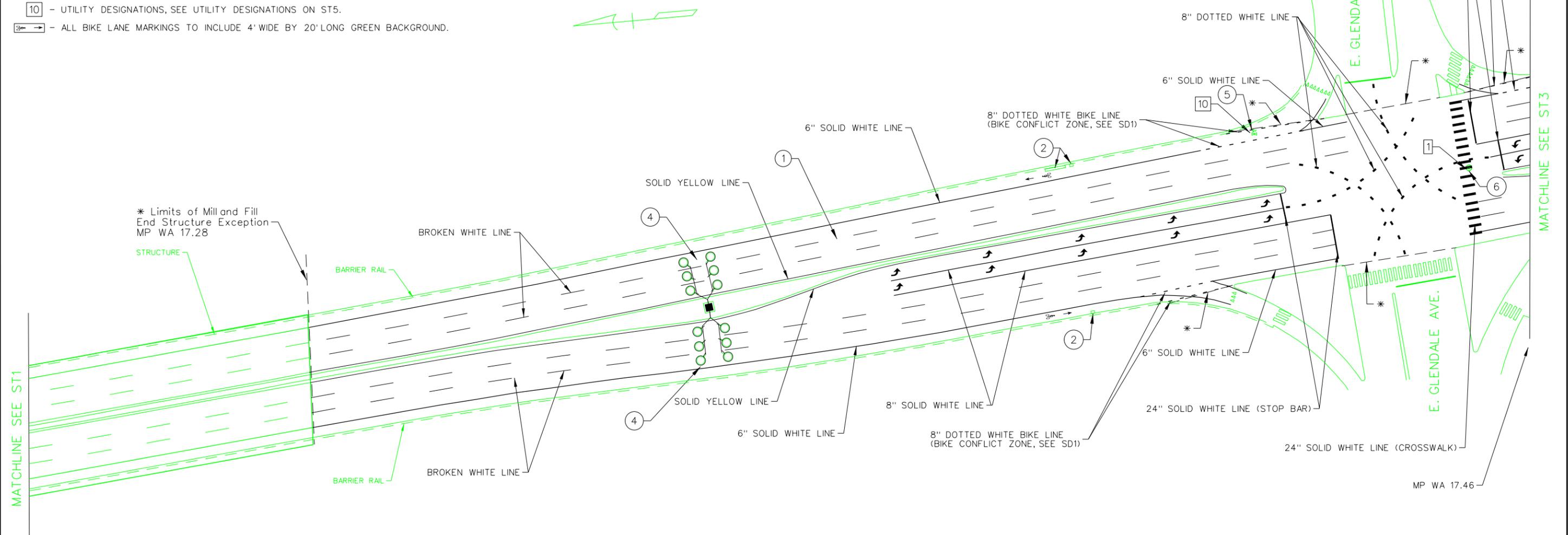
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SR 659  
PERMANENT STRIPING  
DETAILS

|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | ST2       |

NOTES:

- \* LIMITS OF PAVING.
- LANE WIDTHS ARE 12' TYPICAL AND DIMENSIONED FROM CENTERLINE LT. AND RT.
- STRIPING IS FOR REFERENCE ONLY AND USED FOR ESTIMATING PURPOSES. STRIPING TO BE STAKED IN THE FIELD PRIOR TO CONSTRUCTION BY CONTRACTOR, PER EXISTING CONDITIONS.
- REFER TO NDOT STANDARD PLANS DETAIL ST-6 FOR ARROW PLACEMENT DETAILS.
- ALL PERMANENT STRIPING SHALL BE A SINGLE APPLICATION OF EPOXY PAVEMENT STRIPING.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- ALL MILE POSTING IS APPROXIMATE AND FOR REFERENCE ONLY.
- 10 - UTILITY DESIGNATIONS, SEE UTILITY DESIGNATIONS ON ST5.
- - ALL BIKE LANE MARKINGS TO INCLUDE 4' WIDE BY 20' LONG GREEN BACKGROUND.



- ① COLD MILL SURFACE
- ② STORMWATER GRATES & TRENCH DRAINS, PROTECT IN PLACE.
- ④ INSTALL NDOT DETECTOR LOOPS. CALL ZACH KOCH, THE NORTHERN FIELD CREW SUPERVISOR FOR THE NDOT AT (775) 888-7474 OR (775) 720-3448, FIVE (5) WORKING DAYS PRIOR TO CUTTING THE LOOPS FOR PLACEMENT AT PULL BOX NO. 254 LOCATION.
- ⑤ ADJUST GAS VALVE COVER "METHOD B". ALL UTILITY COVERS TO BE FLUSH WITH FINISH GRADE. VALVES IN CONCRETE, PROTECT IN PLACE.
- ⑥ ADJUST MANHOLE COVER "METHOD B". ALL UTILITY COVERS TO BE FLUSH WITH FINISH GRADE.

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

**SR 659  
PERMANENT STRIPING  
DETAILS**

|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | ST3       |

NOTES:

\* LIMITS OF PAVING.

- LANE WIDTHS ARE 12' TYPICAL AND DIMENSIONED FROM CENTERLINE LT. AND RT.

- STRIPING IS FOR REFERENCE ONLY AND USED FOR ESTIMATING PURPOSES. STRIPING TO BE STAKED IN THE FIELD PRIOR TO CONSTRUCTION BY THE CONTRACTOR, PER EXISTING CONDITIONS.

- REFER TO NDOT STANDARD PLANS DETAIL ST-6 FOR ARROW PLACEMENT DETAILS.

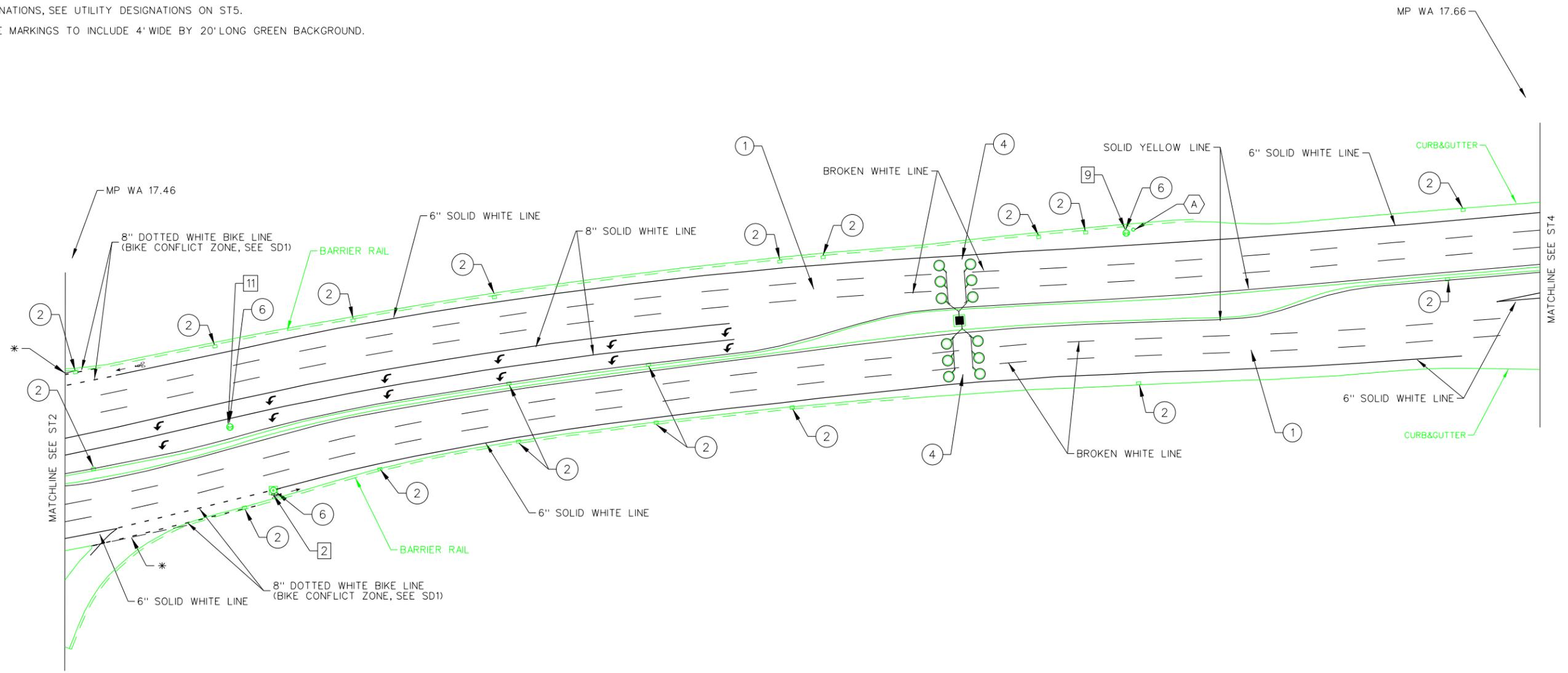
- ALL PERMANENT STRIPING SHALL BE A SINGLE APPLICATION OF EPOXY PAVEMENT STRIPING.

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

- ALL MILE POSTING IS APPROXIMATE AND FOR REFERENCE ONLY.

10 - UTILITY DESIGNATIONS, SEE UTILITY DESIGNATIONS ON ST5.

11 - ALL BIKE LANE MARKINGS TO INCLUDE 4' WIDE BY 20' LONG GREEN BACKGROUND.



- ① COLD MILL SURFACE
- ② STORMWATER GRATES & TRENCH DRAINS, PROTECT IN PLACE.
- ④ INSTALL NDOT DETECTOR LOOPS. CALL ZACH KOCH, THE NORTHERN FIELD CREW SUPERVISOR FOR THE NDOT AT (775) 888-7474 OR (775) 720-3448, FIVE (5) WORKING DAYS PRIOR TO CUTTING THE LOOPS FOR PLACEMENT AT PULL BOX NO. 255 LOCATION.
- ⑥ ADJUST MANHOLE COVER "METHOD B". ALL UTILITY COVERS TO BE FLUSH WITH FINISH GRADE.
- Ⓐ CONCRETE PLUG - REMOVE AT NO DIRECT PAYMENT.

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

**SR 659  
PERMANENT STRIPING  
DETAILS**

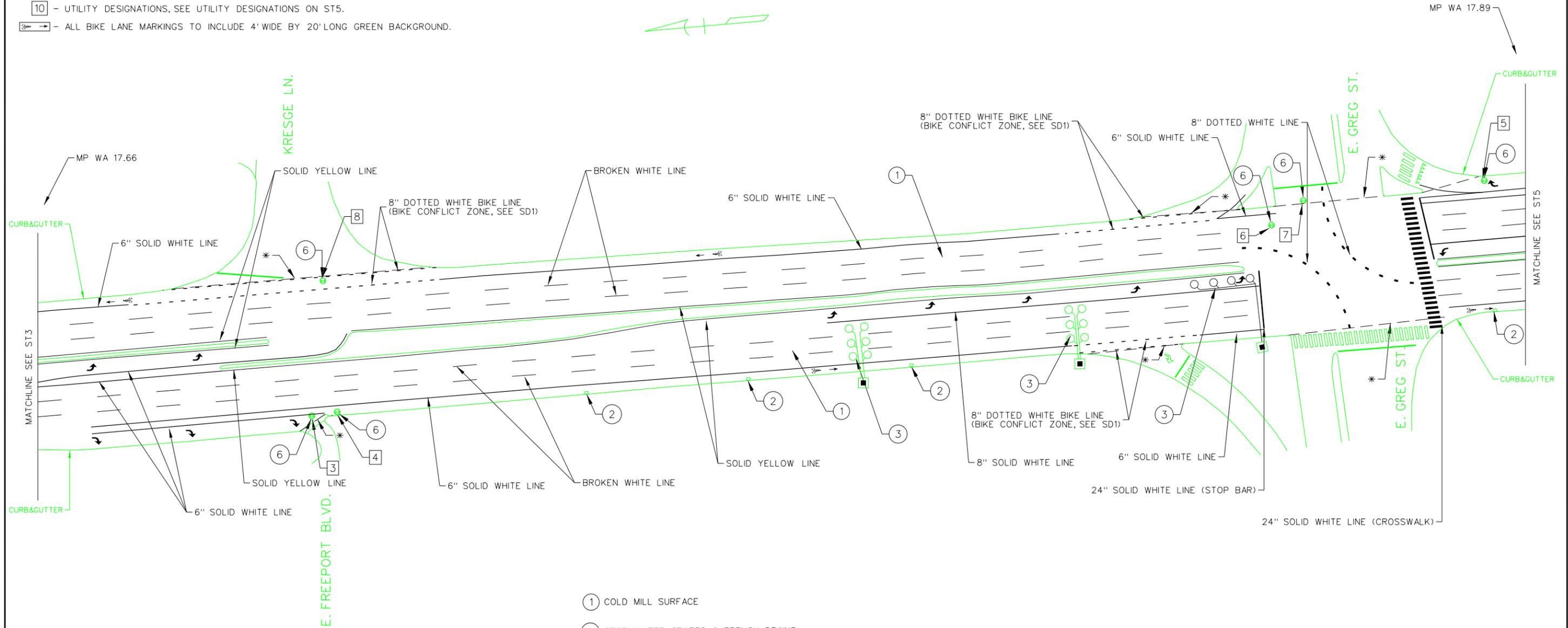
|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | ST4       |

NOTES:

\* LIMITS OF PAVING.

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- REFER TO NDOT STANDARD PLANS DETAIL ST-6 FOR ARROW PLACEMENT DETAILS.
- ALL PERMANENT STRIPING SHALL BE A SINGLE APPLICATION OF EPOXY PAVEMENT STRIPING.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- ALL MILE POSTING IS APPROXIMATE AND FOR REFERENCE ONLY.

- 10 - UTILITY DESIGNATIONS, SEE UTILITY DESIGNATIONS ON ST5.
- 3m - ALL BIKE LANE MARKINGS TO INCLUDE 4' WIDE BY 20' LONG GREEN BACKGROUND.



- ① COLD MILL SURFACE
- ② STORMWATER GRATES & TRENCH DRAINS, PROTECT IN PLACE.
- ③ INSTALL CITY OF SPARKS TRAFFIC LOOPS. CALL WAYNE YOUNT FOR THE TRAFFIC INFORMATION DIVISION AT (775) 691-7258, FIVE (5) WORKING DAYS / 120 HOURS PRIOR TO CUTTING LOOPS FOR EXACT PLACEMENT LOCATION.
- ⑥ ADJUST MANHOLE COVER "METHOD B". ALL UTILITY COVERS TO BE FLUSH WITH FINISH GRADE.

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

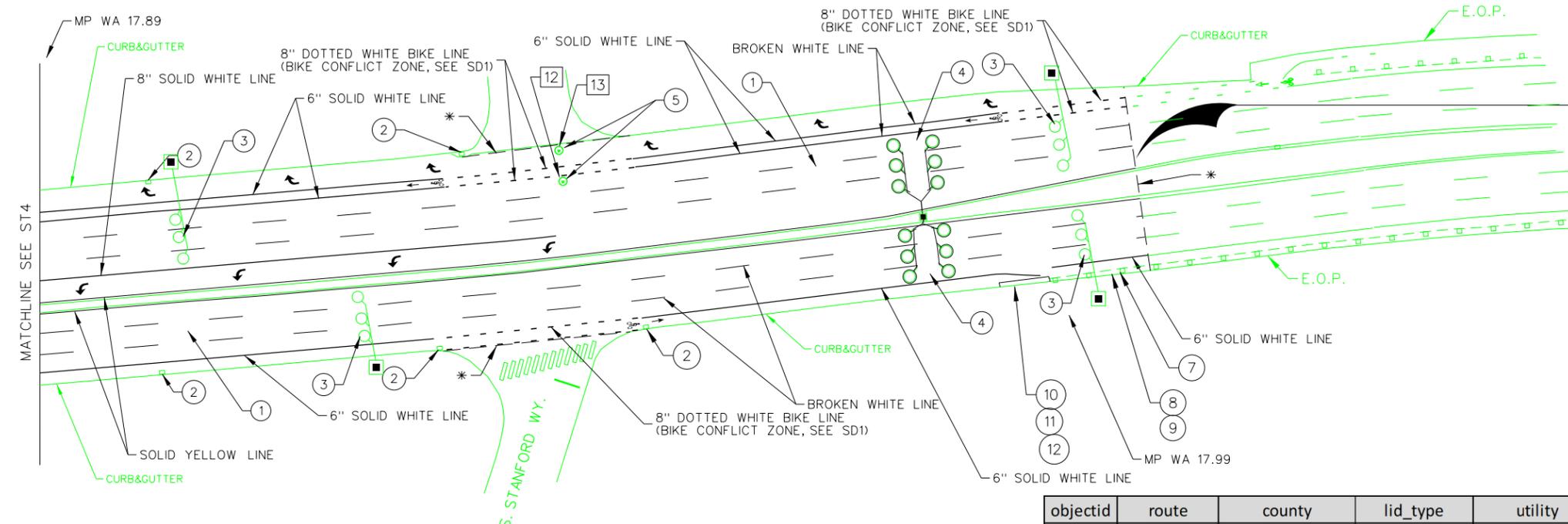
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SR 659  
PERMANENT STRIPING  
DETAILS

|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | ST5       |

NOTES:

- \* LIMITS OF PAVING.
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- 1 COLD MILL SURFACE
- 2 STORMWATER GRATES & TRENCH DRAINS, PROTECT IN PLACE.
- 3 INSTALL CITY OF SPARKS TRAFFIC LOOPS. CALL WAYNE YOUNT FOR THE TRAFFIC INFORMATION DIVISION AT (775) 691-7258, FIVE (5) WORKING DAYS / 120 HOURS PRIOR TO CUTTING LOOPS FOR EXACT PLACEMENT LOCATION.
- 4 INSTALL NDOT DETECTOR LOOPS. CALL ZACH KOCH, THE NORTHERN FIELD CREW SUPERVISOR FOR THE NDOT AT (775) 888-7474 OR (775) 720-3448, FIVE (5) WORKING DAYS PRIOR TO CUTTING THE LOOPS FOR PLACEMENT AT PULL BOX.
- 5 ADJUST VALVE COVER "METHOD B". ALL UTILITY COVERS TO BE FLUSH WITH FINISH GRADE. VALVES IN CONCRETE, PROTECT IN PLACE.
- 7 REMOVE AND RESET GUARDRAIL.
- 8 REMOVAL OF BITUMINOUS SHOULDER DIKE.
- 9 REPLACE BITUMINOUS SHOULDER DIKE.
- 10 CLASS AA CONCRETE CURB AND GUTTER (TYPE 7)(MODIFIED)
- 11 TYPE 1 CLASS B AGGREGATE BASE (GUTTER)
- 12 REMOVAL OF COMPOSITE SURFACE (GUTTER)

| objectid | route  | county        | lid_type | utility        | lid_markings_or_remarks         | Latitude  | Longitude   |
|----------|--------|---------------|----------|----------------|---------------------------------|-----------|-------------|
| 1        | SR 659 | Washoe County | Manhole  | Unk            | NDOT                            | 39.527299 | -119.739689 |
| 2        | SR 659 | Washoe County | Manhole  | Power          | NV Energy - Power               | 39.526781 | -119.739834 |
| 3        | SR 659 | Washoe County | Manhole  | Storm Drain    | City of Sparks                  | 39.523753 | -119.740102 |
| 4        | SR 659 | Washoe County | Manhole  | Storm Drain    | City of Sparks                  | 39.523697 | -119.740104 |
| 5        | SR 659 | Washoe County | Manhole  | Storm Drain    | City of Sparks                  | 39.521148 | -119.740002 |
| 6        | SR 659 | Washoe County | Manhole  | Sanitary Sewer | City of Reno                    | 39.521623 | -119.740026 |
| 7        | SR 659 | Washoe County | Manhole  | Storm Drain    | City of Sparks                  | 39.521544 | -119.739975 |
| 8        | SR 659 | Washoe County | Manhole  | Storm Drain    | City of Sparks                  | 39.523680 | -119.739730 |
| 9        | SR 659 | Washoe County | Manhole  | Storm Drain    | NDOT                            | 39.525089 | -119.739563 |
| 10       | SR 659 | Washoe County | Valve    | Gas            | NV Energy - Gas                 | 39.527688 | -119.739453 |
| 11       | SR 659 | Washoe County | Manhole  | Storm Drain    | NDOT                            | 39.526843 | -119.739663 |
| 12       | SR 659 | TMWA          | Valve    | Water          | Truckee Meadows Water Authority | 39.520265 | -119.740159 |
| 13       | SR 659 | TMWA          | Valve    | Water          | Truckee Meadows Water Authority | 39.520256 | -119.740085 |

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

**SR 659  
PERMANENT STRIPING  
DETAILS**







# NEVADA DEPARTMENT OF TRANSPORTATION



## SPECIAL PROVISIONS

For Constructing a Portion of the State Highway System

SR 659.

**County:** Washoe

**Route Section:** SR 659

**Milepost:** MP WA 17.05 to MP WA 17.90

**Project:** SPSR-0659(004)

**Contract:** 3930

### General description of work covered by this contract

Mill & Fill.

These Special Provisions shall be used with, and as a component part of the Standard Specifications for Road and Bridge Construction, 2014 Edition

Kristina Swallow, P.E.  
*NDOT Director*

## SPECIAL PROVISIONS

These Special Provisions supplement and modify the "Standard Specifications for Road and Bridge Construction," 2014 Edition. All of the requirements and provisions of said Standard Specifications shall apply, except where modified by the plans and these Special Provisions.

This is an English unit contract and all of the requirements and provisions given therefore shall apply. Make no reference to metric units unless metric units are the only units given or otherwise specified for both English unit and metric unit contracts.

### SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS

**102.03 Contents of Proposal Forms.** Add the following to the end of this Subsection of the Standard Specifications:

(b) Workforce information (to comply with the Apprenticeship Utilization Act of 2019). Comply with the following requirements:

1. Prior to bid opening the prime Contractor shall upload a completed Project Workforce Checklist, provided by the Department, into the Department's Electronic Bidding System (iCX).
2. By 5:00 pm the next business day following bid-opening, the apparent 3 lowest bidders shall upload a completed Project Workforce Checklist for all named subcontractors into the Department's Electronic Bidding System (iCX).
3. Within 10 days of bid-opening, the apparent low bidder shall submit a Request for Waiver form, provided by the Department, for the prime Contractor and all named subcontractors. All supporting documentation for waivers, shall be submitted with the Request for Waiver form. The Request for Waiver form and supporting documentation shall be sent via email, fax or delivered to the Department's Contract Compliance Office. If waivers are not needed, please indicate such on the Request for Waiver form, and submit as directed above.

A request for waiver may be submitted for one of the following:

- a. No Registered Apprentice Programs exist for the craft/type of work required by the project.
- b. A request for Apprentices was denied, or not acted upon within 5 business days of submission.
- c. The project requires the performance of uniquely complex or hazardous work.

Failure to submit the workforce/apprentice utilization forms and supporting documentation described above, within the required time, may deem the bid non-responsive.

**102.16 DBE and SBE Certification and Bidding Requirements.** The first four paragraphs of this Subsection of the Standard Specifications are hereby deleted and the following substituted therefore:

This Contract is subject to Title 49, Code of Federal Regulations, Part 26 and/or NRS 408.3872 to 408.38728, inclusive, for Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) certification and bidding requirements. Portions of those regulations are set forth in these Standard Specifications, and those regulations in their entirety are incorporated herein by this reference.

It is the policy of the Department that DBEs/SBEs as defined in 49 CFR Part 26, NRS 408.3872 to 408.38728, and the Department's Disadvantaged Business Enterprise Program shall have an equal opportunity to participate in the performance of contracts. All the DBE and SBE requirements of 49 CFR Part 26 and/or NRS 408.3872 to 408.38, inclusive, apply.

The Contractor agrees to ensure that DBEs/SBEs have an equal opportunity to participate in the performance of contracts and subcontracts. In this regard the Contractor shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 and/or NRS 408.3872 to 408.38, inclusive, to ensure that DBEs/SBEs have an equal opportunity to compete for and perform contracts.

The Contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, or national origin in the performance of the contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 and/or NRS 408.3872 to

408.38, inclusive, in the award and administration of the contract. Failure by the Contractor to carry out these requirements is a material breach of the contract which may result in the termination of this contract or such other remedy as the Department deems appropriate, which may include, but is not limited to:

- (a) Withholding progress payments.
- (b) Assessing sanctions.
- (c) Liquidated damages.
- (d) Disqualifying the Contractor from future bidding.

Add the following to the end of the seventh paragraph on page 12 of the Standard Specifications:

- (e) Each DBE firm must be certified in a NAICS code applicable to the kind of work the firm would perform on the contract.

The first sentence and Subparagraph (1) of the second paragraph on page 13 of the Standard Specifications are hereby deleted and the following substituted therefore:

Determination of whether a DBE/SBE trucking company is performing a commercially useful function and the expenditures that count toward DBE/SBE goals will be as follows:

1. The DBE/SBE must be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract and must submit to the Department a DBE/SBE Trucking Credit Worksheet before any work can be started on a contract. There cannot be a contrived arrangement between the DBE/SBE trucking firm, the prime contractor and any lower tier subcontractors for the purpose of meeting DBE/SBE goals.

The third to last paragraph on page 13 of the Standard Specifications is hereby deleted and the following substituted therefore:

The DBE/SBE subcontractors submitted by the prime Contractor as meeting the requirements of this Subsection must have a license, if applicable, for the type and quantity of work to be performed by said DBE/SBE subcontractor, issued by the appropriate agency prior to award of the contract.

**SECTION 103 – AWARD AND EXECUTION OF CONTRACT**

**103.08 DBE and SBE Verification and Award Requirements.** This Subsection of the Standard Specifications is in effect for this contract and the Department has established a SBE participation goal of 4.5%.

The last paragraph of this Subsection of the Standard Specifications is hereby deleted.

**SECTION 105 - CONTROL OF WORK**

**105.04 Coordination of Plans, Specifications, Supplemental Specifications, and Special Provisions.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

All supplementary documents are essential parts of the contract and a requirement occurring in one is binding as though occurring in all. They are complimentary and provide and describe the complete contract. If there is a discrepancy, the governing ranking is:

| Dimensions    | Information  |
|---------------|--|
| 1. Plan       | 1. Special Provisions                                |
| 2. Calculated | 2. Plans   |
| 3. Scaled     | 3. Standard Specifications                           |
|               | 4. Standard Plans                                    |
|               | 5. Information received at mandatory prebid meetings |

Take no advantage of any apparent contract error or omission. Promptly give notification if any omissions or errors are discovered. Such corrections and interpretations will then be made as may be deemed necessary for fulfilling the intent of the plans and specifications.

**105.05 Partnering.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

For the benefit of both the Contractor and the Department, the formation of a "Partnering" relationship will be established in order to effectively complete the contract. The purpose of this relationship is to maintain cooperative communication and to mutually resolve conflicts at the lowest responsible management level.

The Department strives to work cooperatively with all Contractors and partnering is our way of doing business on all contracts. The Department encourages the formation of a partnering team consisting of significant contributors from the Department, Contractor, major Sub-contractors, and invited stakeholders.

Additional information and resources for Partnering requirements described herein can be found on the Department's website at <https://www.nevadadot.com/doing-business/about-ndot/ndot-divisions/operations/construction/partnering-program>.

For partnering requirements, projects are classified as Level 1 or Level 2 based on the contract bid amount. Level 1 projects have a total bid amount under \$10 million while Level 2 projects have a total bid of \$10 million or higher. All projects are required to follow partnering principles and implement basic partnering elements such as team member expectations, project goals, a risk assessment, and an issue resolution ladder. Level 1 projects may accomplish this in a partnering kickoff meeting led by the Engineer and Contractor Project Manager. Level 2 projects shall be led by a professional facilitator. All projects will have access to the "Partnering Roadmap" to use as a checklist and tracking tool for partnering expectations.

If a contract is under \$10 million yet meets criteria in the "Facilitation Matrix" in Figure 105.1 at the end of this Subsection, the project might warrant professionally facilitated partnering. In some cases, the contract may specify required facilitation due to its complex nature or high public impact.

The establishment of the partnering relationship will not change or modify the terms and conditions of the contract.

Though the Engineer typically extends an invitation for the initial partnering session, either the Department or Contractor may request a facilitated session. After the Engineer receives the request, the Contractor and the Engineer shall cooperatively select a partnering facilitator from the Department's "Partnering Program Facilitator List."

Additional interim partnering workshops may be required throughout the life of the contract. It is suggested that, at minimum, kickoff and closeout sessions be held for all projects. Interim sessions should be held following a winter suspension or if the project exceeds one year in length. The frequency will be determined by the length and scope of the project. The Engineer and Contractor should work closely to schedule these sessions.

In implementing partnering, the Contractor and the Engineer shall manage the contract by:

1. Using early and regular communication with involved parties.
2. Establishing and maintaining a relationship of shared trust, equity, and commitment.
3. Identifying, quantifying, and supporting attainment of mutual goals.
4. Developing strategies for using risk management concepts.
5. Implementing timely communication and decision making.
6. Resolving potential problems at the lowest possible level to avoid negative impacts.
7. Holding periodic partnering meetings and workshops as appropriate to maintain partnering relationships and benefits throughout the life of the contract.
8. Establishing periodic joint evaluations of the partnering process and attainment of mutual goals.

At the kickoff session, the partnering team shall create a team charter that includes mutual goals (core project goals which may also include project specific goals and mutually supported individual goals), a partnering maintenance and closeout plan, dispute resolution plan with a dispute resolution ladder, and team commitment statement and signatures.

Professionally facilitated partnering teams shall participate in monthly partnering evaluation surveys to measure progress on mutual goals and short-term key issues as they arise. The surveys are intended to keep the team members and the project on task with the goals and resolution of issues. Issues identified in the surveys shall be addressed timely and appropriately. The closeout partnering session should be held shortly before or

after substantial completion and the team shall document the accomplishment of team goals and challenges as well as document lessons learned.

The costs of providing the Partnering Facilitator, Partnering Trainer, and Workshop Sites will be borne by the Department. The Contractor shall pay all initial costs incurred. The Department will reimburse the Contractor all of the costs as evidenced from the Facilitator, Trainer, and Workshop Site provider. Markup or profit added to invoices will not be allowed. All other costs associated with Partnering shall be borne separately by the party incurring the cost.

**Figure 105.1 Facilitation Matrix.**

| Project Risk Calculation  | <<<Less  |   | Risk Score  | More>>> |  |                  |
|---|--|---|---|---------|--|------------------|
| Factors   | 1  | 2 | 3   | 4       | 5  | Risk Score (1-5) |
| Project Duration  | Less than 60 calendar days.  |   | 60-150 calendar days.   |         | Greater than 150 calendar days.  |                  |
| Number of 3 <sup>rd</sup> parties (utilities, local municipalities, other key stakeholders) | 3 or less third parties.   |   | 4-6 third parties.  |         | More than 6 third parties.   |                  |
| Size of Project   | Small  |   | Medium  |         | Large  |                  |
| Number of Project Risks   | Relatively few risks with minor cost and/or time impacts.                                |   | Typical project with moderate number of risks.  |         | Many risks with significant cost and/or time impacts.                                      |                  |
| Schedule Risks  | Little to no anticipated constraints. Low liquidated damages and/or potential incentive. |   | Limited anticipated constraints. Average liquidated damages and/or potential incentive. |         | Many anticipated schedule constraints. High liquidated damages and/or potential incentive. |                  |
| Partnering Team Relationships   | Team has worked together before and has a solid partnering foundation.                   |   | Team has some experience working together, not necessarily good or bad.                 |         | Team has not worked together or has a poor prior partnering relationship.                  |                  |
|   |  |   |   |         | <b>Total Risk Score:</b>   |                  |
|   |  |   |   |         | <b>Total Risk Score less than 15:</b>  |                  |
|   |  |   |   |         | <b>Total Risk Score 15 or more:</b>  |                  |

**105.09 Construction Stakes, Lines, and Grades.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Construction stakes establishing lines, slopes, and profile grade in road work, and centerline and benchmarks for bridge work, culvert work, protective and accessory structures and appurtenances will be set as deemed necessary, and all necessary information relating to lines, slopes, and grades will be furnished. These stakes and marks shall constitute the field control by and in under which the Contractor shall establish other necessary controls and perform the work.

Be responsible for the preservation of all stakes, marks, etc., provided by the Department.

Replace any part of the stakeout that is destroyed or lost by construction operations, or by any other reason, when needed to complete the work, at own expense.

The Department will be responsible for the accuracy of this work.

After initial stakeout of horizontal and vertical controls, give 72 hours written notice for any additional required controls. Saturdays, Sundays, and holidays will not be counted as part of the 72 hours.

**105.16 Final Inspection and Acceptance.** The fourth paragraph of this Subsection of the Standard Specifications is hereby deleted.

**105.18 Disputes Review Team.** This Subsection of the Standard Specifications is hereby deleted.

## **SECTION 106 – CONTROL OF MATERIAL**

**106.01 Source of Supply and Quality Requirements.** Rock, soil, or other mineral material obtained or produced from sources other than those described in Subsection 106.02 must be evaluated for Naturally Occurring Asbestos (NOA) and erionite and comply with the requirements contained in the Department's "NDOT NOA & Erionite Commercial Import Material Clearance Guidance, July 2019". Submit required information for review and approval a minimum of 30 days prior to start of related work. Additional contract time will not be given for information requiring changes and re-submittal. The approval of source materials shall not relieve responsibility under the contract for successful completion of work.

A copy of "NDOT NOA & Erionite Commercial Import Material Clearance Guidance, July 2019" may be obtained from the Department's website at <https://www.nevadadot.com/home/showdocument?id=16763>.

**106.02 Local Materials.** Should material sites be located on public lands under the jurisdiction of the Bureau of Land Management, new Part 23 of Title 43 as noted in Subsection 106.03 shall pertain.

**106.04 Samples and Tests.** The second paragraph on page 34 of the Standard Specifications is hereby deleted and the following substituted therefore:

Testing personnel are required to be qualified in the Nevada Alliance for Quality Transportation Construction (NAQTC) Aggregate Module and Sampling and Density Module or Western Alliance for Quality Transportation Construction (WAQTC) Aggregate Module and Embankment and Base Module.

The first sentence of the second indented paragraph of (e) on page 35 of the Standard Specifications is hereby deleted and the following substituted therefore:

For gradation acceptance, samples will be taken from behind the lay down machine according to Test Method No. Nev. T200, except for aggregates for bituminous open-graded which will be sampled from the paving machine.

The first sentence of the last indented paragraph of (g) on page 35 of the Standard Specifications is hereby deleted and the following substituted therefore:

For gradation acceptance, samples will be taken from behind the lay down machine according to Test Method No. Nev. T200, except for aggregates for bituminous open-graded which will be sampled from the paving machine.

In the last sentence of the second indented paragraph of (h) on page 35 of the Standard Specifications, the reference to "AASHTO T40" is hereby deleted and "AASHTO R66" substituted therefore.

In indented paragraph (i) on page 36 of the Standard Specifications, the reference to "procedure No. 10" is hereby deleted.

**106.05 Certificates of Compliance.** Add the following to the end of the first paragraph of this Subsection of the Standard Specifications:

Progress payments will not be made on installed or stockpiled material without approved certificates of compliance.

The third sentence of the fifth paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

All tests shall be performed by an AASHTO re:source accredited facility.

## **SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

**107.01 Laws to be observed.** Subparagraphs (1), (2), (3), and (5) of this Subsection of the Standard Specifications are hereby deleted and the following substituted therefore:

- (1) **Compliance with Regulations:** The Contractor shall comply with regulations relative to nondiscrimination, Federal regulation Title 49, Code of Federal Regulations, Part 21, Title 23, Code of Federal Regulations, Part 200, and Nevada Revised Statute 613.350, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made part of this contract.
- (2) **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability or national origin in the selection and retention of Subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in discrimination prohibited by the Regulations.
- (3) **Solicitations for Subcontractors, Including Procurement of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential Subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability or national origin.
- (5) **Sanctions for Non-Compliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, NDOT shall impose contract sanctions as it, the FHWA or the State may determine to be appropriate, including but not limited to:
  - a. withholding of payments to the Contractor under the contract until the Contractor complies, and/or
  - b. cancellation, termination or suspension of the contract, in whole or in part.

**107.06 Sanitary, Health, and Safety Provisions.** The third paragraph of this Subsection of the Standard Specifications is hereby deleted.

**107.07 Public Convenience and Safety.** The first sentence of the fourth paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Retain a person certified by the American Traffic Safety Services Association (ATSSA) or Department approved equivalent as a Traffic Control Supervisor as specified in Subsection 624.03.06.

**107.09 Liability Insurance.** Subparagraphs (b) and (c) of this Subsection of the Standard Specifications are hereby deleted and the following substituted therefore:

(b) General. Furnish the Department with one certified copy of all insurance required under subparagraph (a) of Subsection 107.09 of the Standard Specifications. Send this copy directly to the Nevada Department of Transportation, 1263 S. Stewart Street, Carson City, Nevada 89712 - Attention: Contract Compliance Officer.

**107.12 Protection and Restoration of Property and Landscape.** The second to last paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Be responsible for the preservation, maintenance, and mitigation efforts to minimize erosion and water pollution throughout the duration of the project. See Section 211 and Section 637.

The contractor is responsible for the preservation of archaeological and paleontological objects, including all ruins, sites, building, artifacts, fossils, monuments, markers or other objects of antiquity encountered outside avoidance areas during construction. When such objects are encountered, immediately cease operations within 100 feet of the find and give notification that such objects exist. The Resident Engineer shall notify the Chief Cultural Resources Program Manager (775) 888-7666. Construction operations will be rescheduled to avoid the section until given written notification to proceed with operations.

**107.17 Contractor's Responsibility for Utility Property and Service.** Contact the following representatives 2 weeks prior to beginning construction:

**Truckee Meadows Water Authority**  
STEVE VOLK  
1355 Capital Blvd.  
Reno, NV 89502  
Office (775) 834-8024  
Cell (775) 848-3083  
[svolk@tmwa.com](mailto:svolk@tmwa.com)

**NV Energy (Electric)**  
Inspection Request Line  
P.O. Box 10100  
Reno, NV 89520  
(775) 834-7520

**City of Reno Public Works**

JOHN SIMPSON  
1 East First St.; 8<sup>th</sup> Floor  
P.O. Box 1900  
Reno, NV 89509  
Office (775) 689-2961  
Cell (775) 742-4748  
[simpsonj@reno.gov](mailto:simpsonj@reno.gov)

**City of Sparks Public Works**

KEVIN PORTER, P.E.  
431 Prater Way  
Sparks, NV 89431  
Office (775) 686-8188  
[kporter@cityofsparks.us](mailto:kporter@cityofsparks.us)

NV Energy (Gas)  
MATT BRECKE  
PO Box 10100  
Reno NV 89520  
Office (775) 834-7071  
[matt.brecke@nvenergy.com](mailto:matt.brecke@nvenergy.com)  
Becca Epstein  
[becca.epstein@nvenergy.com](mailto:becca.epstein@nvenergy.com)  
Peter Wright  
[peter.wright@nvenergy.com](mailto:peter.wright@nvenergy.com)

**SECTION 108 – PROSECUTION AND PROGRESS**

**108.01 Subletting of Contract.** Prior to the Preconstruction Conference, submit a copy of the “NDOT Bidder Subcontractor and Supplier Information – Enterprise Subcontractors and Suppliers” report with an additional narrative that details your plans for utilization of each Enterprise Subcontractor for the prosecution of work. Include sufficient detail to ascertain when each Enterprise Subcontractor is anticipated to work on the project. Submit updated plans by the 15th of each month indicating any changes in planned utilization.

The second, fourth, and fifth paragraphs of this Subsection of the Standard Specifications are hereby deleted.

The second and third sentences of the third paragraph of this Subsection of the Standard Specifications are hereby deleted and the following substituted therefore:

Without exception and before the performance of any work by a subcontractor or service provider, submit a Subcontractor/Service Provider Request (SSPR) to the Department via the Department’s Civil Rights and Labor (CRL) reporting software. Upon receipt of the SSPR approval, the subcontractor or service provider may begin work on the project. After SSPR approval, and within 2 business days of the subcontractor or service provider starting work on the project, additional information, including the subcontract agreement, must be submitted in the Department’s CRL reporting software. This applies for all tiers of subcontractors and service providers.

The sixth paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

All subcontractors, service providers and assignees of the prime Contractor shall be required to follow all Federal, State and local regulations and laws in the same manner as the prime Contractor.

The third paragraph and subparagraphs (a) through (g) in the middle of page 54 of the Standard Specifications are hereby deleted.

The second paragraph of “NON-DISCRIMINATION IN EMPLOYMENT AND CONTRACT LABOR PROVISIONS” on page 54 of the Standard Specifications is hereby deleted and the following substituted therefore:

“Also included, and made part of this subcontract agreement, through the execution of the Subcontractor/Service Provider Request (SSPR) form, are the applicable Labor Provisions, and required contract inclusions for all State and Federal construction contracts.”

When performed by subcontract, the following items of work, designated herein as "Specialty Items," are hereby exempted from the provisions that 50% of the value of the work be performed by the Contractor with his own organization, but are not exempted from the remaining provisions concerning subcontracting.

Specialty Items:

| Description                    | Item Number            |
|--------------------------------|------------------------|
| Remove & Reset Guardrail ..... | 618 0250               |
| All Section 632 Items .....    | 632 0100 thru 632 1080 |
| All Section 634 Items .....    | 634 1030 thru 634 1060 |

**108.02 Notice to Proceed.** Commence work not later than the date set forth in the "Notice to Proceed" and prosecute diligently so as to be completed within 30 working days after commencement of work or the date set forth in the "Notice to Proceed," whichever occurs first.

Liquidated damages will be assessed according to Subsection 108.09 for failure to complete the work as specified herein.

**108.03 Prosecution and Progress.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

(a) General. After being awarded the contract, prepare and submit for acceptance the progress schedules as specified herein showing the order in which the work is proposed to be carried out.

Do not construe the acceptance of any progress schedule submitted to assign responsibility of performance or contingencies to the Department or relieve responsibility to adjust forces, equipment, and work schedules as may be necessary to insure completion of the work within prescribed contract time. Regardless of the number of working days or completion date indicated on the schedules, acceptance of a schedule shall not be construed as approval to adjust the contract time and liquidated damages will be assessed according to Subsection 108.09.

Any contingency (difference in time between the project's early completion and required contract completion date) in a progress schedule belongs to the project, not any one party to the contract.

Neither the Contractor nor the Engineer shall own the "slack" or "float," which is the amount of time between the early start date and the late start date, or the early finish date and the late finish date, of any activity or group of activities in the schedule.

The progress schedule may be used as a basis for establishing major construction operations and as a check on the progress of work. Provide sufficient materials, equipment, and labor to guarantee the completion of the project according to the plans and specifications. Should the prosecution of the work for any reason be discontinued, give notification at least 24 hours in advance of resuming operations.

Submit electronic copies of the schedule, in addition to hard copies of plots and reports. Acceptable formats for the preliminary schedule include bar chart, Gantt chart, or time-scaled logic diagram. Provide electronic copies of the baseline, monthly updates, and supplemental schedule files in an approved, compatible format which can be accessed by the Department's current version of "Oracle" software scheduling program. The submittal of satisfactory progress schedules including preliminary, baseline, monthly updates, and supplemental schedules shall be considered as a necessary portion of the work; therefore, partial payments as set forth under Subsection 109.06 may not be forthcoming until this requirement is complied with.

The supplemental schedules and monthly updates shall not alter the logic previously established in the preliminary schedule or baseline schedule unless requested and approved in writing.

Through the use of calendars, incorporate non-work periods such as holidays, weekends, or other non-work days as identified in the contract.

Activity descriptions shall be concise and contain a verb, noun, and a location, but representative of the work being performed.

Schedules shall reflect Department activities and third party activities.

Do not use leads or lags when the creation of an activity performs the same function (e.g. concrete cure time). Lag duration shall not exceed 10 days without prior approval and shall not have a negative value. Explain the use of interrelation constraints such as leads and lags on activities in the narrative.

Do not use mandatory start or finish constraints, start on, expected finish, and zero total float constraints in the baseline, monthly update, or supplemental schedules without approval.

Code activities for the responsible party, phasing, and area or location.

Do not use schedule submittals to notify the Department of caused delays or to request additional contract time.

Failure or delay in the submittal or approval of a baseline, monthly update, or supplemental schedule will not result in any time extension.

(b) Preliminary Schedule. Submit an electronic copy of the preliminary schedule within 14 days of the "Notice of Award," and no later than 7 days before the Preconstruction Conference. As a minimum, show the first 30 working days on this schedule, including such activities as mix designs, procurement, shop drawings, aggregate source acceptance, material sampling, mix design preparation, fabrication, submittals, reviews, mobilization, demobilization, and activities or phases of work.

Allow 10 days for review and acceptance or rejection of the preliminary schedule. Participate in a review and evaluation of the preliminary schedule with the Engineer, as requested. Provide requested revisions to the preliminary schedule within 10 days.

(c) Baseline Schedule. Within 15 days after acceptance of the preliminary schedule, submit an electronic baseline schedule. Designate at the time of the baseline schedule submittal, in writing, an authorized representative who will be responsible for the preparation, revision, and updating of the baseline schedule. Allow 15 days for review and acceptance or rejection of the baseline schedule. Participate in a review and evaluation of the baseline schedule with the Engineer, as requested. Provide requested revisions to the baseline schedule within 10 days.

Provide a graphic network diagram showing the elements of the project in detail and an entire project summary. Show the order and interdependence of activities and the sequence in which the work is to be accomplished. Include the description, activity number, estimated duration in working days, and all activity relationship lines for each activity in the graphic network diagram. Provide sufficient detail to allow day-to-day monitoring of proposed operations. Activity durations shall not exceed 20 working days in length. Unless otherwise approved, exceptions may include procurement activities and work activities which may be considered routine once they are commenced. Provide a plot of the schedule in an acceptable size, scale, and format. Show the order and interdependence of activities and the sequence of work. Prominently distinguish critical activities on all reports by the use of color or other acceptable means. Each activity in the schedule, with the exception of the first and last, shall have a predecessor or successor activity, respectively.

Provide an analysis of the network diagram which includes the following information as a minimum for each activity:

1. Preceding and succeeding event numbers.
2. Activity description and number.
3. Estimated duration of activities.
4. Early start date (by calendar date).
5. Early finish date (by calendar date).
6. Late start date (by calendar date).
7. Late finish date (by calendar date).
8. Slack or float.
9. Activity constraints.

In the event an early completion schedule is submitted, either party may submit a Value Engineering Proposal to modify Subsection 108.02 to reflect the early completion. If the Value Engineering Proposal is not accepted, the parties agree that the "slack" or "float" shown by the early completion schedule remains with the project and to waive rights to any damages for failing to complete the project in the time shown on the early completion schedule. A baseline schedule submitted that exceeds the time frames shown in Subsection 108.02 may be accepted at the discretion of the Engineer, however, any actual work that exceeds these time frames without an executed contract modification increasing time will be subject to the provisions of Subsection 108.09.

(d) Monthly Updates. Submit monthly updates on projects over 120 working days duration. Submit monthly updates on dates as agreed with the Engineer. Provide tabulation reports for activity numbers, total float, early start, and for precedence schedules, and a logic report of proceeding and succeeding activities with all restraints indicated. Provide a report showing the activities, or portions of activities, completed during the reporting period. State the percentage of the work actually completed and scheduled, the remaining duration, and the progress along the critical path in terms of days ahead or behind the allowable dates as of the report date. Indicate any changes made to the baseline schedule.

Provide a schedule narrative for each monthly update and include the following:

1. A summary of the progress for the current period, including schedule gains or losses and the reason why.
2. A list of all activities that have been added, deleted, or otherwise changed in the schedule with explanations for the modifications and description of the impacts each has on the schedule.
3. Any revisions that may have been performed to the schedule, providing the purpose of the revision and description of the impact to the critical path and completion dates.

4. The status of the critical path, explaining reasons for changes in critical path, impacts to the critical path that occurred during the period represented, or identifying potential future impacts.

(e) Supplemental Schedule. Submit a supplemental schedule if the project is determined to be behind schedule as requested by the Engineer within 15 days. Include a revised network diagram and analysis showing the proposed revisions to the baseline schedule. The conditions under which revisions of the baseline schedule will be required include the following:

1. When delay in completion of any work item or sequence of work items results in an estimated extension of project completion by either 20 working days or 5% of the remaining duration of time to complete the project, whichever is less.
2. When delays in submittals or deliveries make replanning or rescheduling of the work necessary.
3. When the schedule does not represent actual prosecution and progress of the work.
4. When any change to the sequence of activities, the completion date for major portions of the work, or changes occur which affect the critical path.
5. When contract modification necessitates schedule revision.

(f) Time Impact Analysis. Submit a "Notice of Potential Time Impact" when potential impacts are identified which may result in an adjustment of a milestone date or an extension of contract time as specified in Subsection 108.08. Submit such notice within 24 hours of identification of an impact unless otherwise approved.

Provide a description of the impact and include the status of the project on the progress schedule immediately before the impact and the effect of the FRAGNET as specified below with the "Notice of Potential Time Impact."

Time extensions will only be considered when delays that affect milestone dates or the contract completion date are beyond the Contractor's control.

Perform a time impact analysis of the effects of the potential impact and include the following:

1. Establish the status of the project on the progress schedule immediately before the impact.
2. Predict the effect of the impact on the current baseline schedule by inserting a FRAGNET of the issue and tying the FRAGNET to the impacted activity.
3. Track the effects of the impact on the schedule during its occurrence.
4. Establish the status of the project after the impact is complete and provide details identifying any mitigating actions or circumstances used to keep the project ongoing during the impact period.

Submit one electronic copy of the complete time impact analysis and a copy of the proposed supplemental schedule incorporating the time impact analysis no later than 15 days after the completion of the impact. If the project schedule is revised after the submittal of a time impact analysis, but prior to its approval, indicate in writing the need for any modification to the time impact analysis.

The time impact analysis will be reviewed. If this review detects revisions or changes to the schedule that had not been performed and identified in a narrative, the time impact analysis may be rejected. If the Engineer is in agreement with the time impact analysis, a change order may be issued to grant adjustment to milestones or extension of contract time.

**108.04 Limitation of Operations.** Contact the Department's Water Quality Specialist within the Stormwater Division (775) 888-7771 prior to submitting the Notice of Intent (NOI) to obtain coverage under the general Permit for Stormwater Associated with Construction Activity.

Provide a copy of the Notice of Intent (NOI) for the General Permit for Storm Water Associated with Construction Activity, as specified in Section 637, prior to beginning work.

Regardless of traffic control operations, do not stop public traffic for more than 20 minute duration and do not delay it for more than 30 minutes total, regardless of the number of work zones. Any proposed traffic control plan must meet the duration of delay restrictions (20 minutes stopped, 30 minutes total delay).

Should these delay restrictions be exceeded, work will be immediately suspended. If work is suspended, submit a written revised construction plan which addresses the delay problem. Upon approval of the plan the construction operations may resume. Working days will continue to be assessed during the suspension period.

Only one work zone per direction will be allowed, unless otherwise approved or directed.

Maintain one lane of public traffic in each direction at all times.

Do not allow public traffic on milled surface.

Open all lanes to public traffic during non-working hours.

Limit the working hours of operation to 7:00 p.m. – 5:00 a.m. Sunday night through Friday morning, unless otherwise approved.

In order to ensure the protection of the area, and to avoid impacts to cultural resources (36 CFR 800; Public Law 96-95: 16 U.S.C. 470ii), the ground between the toe-of-slope and the outside edge of right-of-way must be completely avoided in these areas. Do not park or turn around vehicles, stage activity, mechanically seed, or conduct any ground-disturbing activities off the toe-of-slope or in the median, regardless of any previous disturbance. If the Department suffers fines, penalties or mandatory mitigation because of the failure to comply with this stipulation, the Department may deduct the amount of said fine or penalty from any monies due.

Failure to maintain the avoidance areas at all times may result in suspension of work until any damages are determined. Working days will continue to be assessed during the suspension period. If any historical, cultural or paleontological resources are encountered during the course of work, operations must cease immediately within 100 feet of the area of discovery and the surrounding area is to be protected. The NDOT Chief Archaeologist is to be notified immediately for further instructions (775) 888-7666.

All vegetation/structure removal shall be conducted to avoid impacts to listed migratory birds (50 CFR 10.13), which are protected in Nevada by NAC 503.050, that may be actively utilizing vegetation/structures for nesting. When possible, vegetation/structure removal should not occur during avian breeding season (generally March 1 through July 31). Raptors and owls may begin nesting as early as January. If vegetation/structure removal shall occur during avian breeding season, nesting surveys shall be conducted by a biologist with experience in bird identification, general nesting behavior, nest and egg identification, and knowledge of habitat requirements for migratory birds. The survey shall be conducted a maximum of 7 days prior to land disturbance. Submit a copy of the biologist's survey report and the biologist's curriculum vitae.

If nesting sites are found within the project limits, the Department will determine a suitable buffer area around the nest site. The buffer area around the nest site will be flagged as an avoidance area. Disturbance shall not occur within the flagged avoidance area while the nest is occupied.

Bird nests containing eggs and/or young shall not be disturbed until after the young have left the nest, including swallows nesting on structures, and bats using structures for roosting. The Contractor may take preventative measures prior to avian breeding season to ensure that birds do not create nests on structures.

Be responsible for project delays ensuing from a failure to take into account bird nesting season and/or safeguard structures from bird nest construction. Approval shall be obtained prior to commencement of any contract-related activity resulting in the disturbance or removal of unoccupied nests. Do not commence vegetation/structure removal until written approval is obtained.

Be responsible for all costs incurred related to compliance with the MBTA, bird nesting surveys, establishment and maintenance of nest avoidance areas, bird nesting preventive measures, or removal of unoccupied nests on structures.

**108.09 Failure to Complete the Work on Time.** Liquidated damages of \$4,500.00 per working day will be assessed for failure to complete the work in the number of working days specified in Subsection 108.02.

Liquidated damages of \$3,700.00 per 15 minutes for failure to comply with the hourly restrictions as specified in Subsection 108.04.

Liquidated damages of \$4,500.00 per day will be assessed for failure to clean track out areas as specified in Subsection 107.07.

Liquidated damages of \$1,000.00 per day per lane mile will be assessed for failure to place pavement striping as specified in Subsection 632.03.04.

## **SECTION 109 - MEASUREMENT AND PAYMENT**

**109.01 Measurement of Quantities.** The eighth paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

When water meters are required, the accuracy of the meters will be checked by comparing the actual mass of approximately 4,000 L (1,000 gal), or 4 m<sup>3</sup> (125 ft<sup>3</sup>), as metered with the calculated mass using as a reference density 1.00 kg/L (8.345 lb/gal) or 1,000 kg/m<sup>3</sup> (62.4 lb/ft<sup>3</sup>). Unless otherwise specified, provide water meters accurate to within 1.5% of the indicated amount. The frequency of checking water meters will be determined.

**109.02 Scope of Payment.** The cost of the asphalt product for the double asterisk note in the demerit table on page 68 of the Standard Specifications is as follows:

Cost of the emulsified asphalt (diluted) will be \$670.00 per ton.

Section 637 pay items are subject to the following requirements:

It is agreed by the parties to the contract that (a) in case the temporary pollution control implementation does not conform to the requirements set forth in Section 637, damage will be sustained by the Department, and that (b) it is extremely difficult to ascertain the actual damage which the Department will sustain; therefore, it is agreed the Contractor shall pay to the Department as liquidated damages or the Department, at its option, may deduct from any money due or to become due the Contractor from the Department an amount set forth in the following schedule:

Liquidated damages are assessed at \$350 per demerit per day plus additional damages for 21 or more demerits as indicated. Liquidated damages are cumulative per violation.

| Number of Demerits<br>From Section 637 | Additional Liquidated<br>Damage                                     |
|--|---|
| 21-30 .....                            | 5% of contracted amount of temporary pollution control items        |
| 31-40 .....                            | 10% of contracted amount of temporary pollution control items       |
| * 41 or more.....                      | Potential action by the Director, value and deduct to be determined |

\* Pursuant to NRS 408.441 through 408.451, the Director may issue an order for compliance, commence a civil action, request the Attorney General commence a criminal action, or seek injunctive relief.

Nothing herein prevents the Nevada Division of Environmental Protection, Environmental Protection Agency, or other state, federal, or local agencies from assessing penalties and fines against the Contractor due to the Contractor's failure to comply with applicable laws, regulations, and ordinances, or any combination thereof.

**109.04 Asphalt Escalation.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

The use of the price adjustment provisions as developed and implemented herein are intended to minimize the cost effects of price uncertainty to the Contractor and the Department for "Asphalt Cement" used in the construction of the contract. The price adjustment provisions are not intended to serve as a guarantee for full compensation for "Asphalt Cement" price fluctuations but are intended to provide for a sharing, by the Department, in a portion of the Contractor's risk which could result from potentially volatile price fluctuations that might occur throughout the duration of the contract.

The price adjustment provisions do not serve to relieve the Contractor of risks associated with fluctuation in prices beyond the amount adjusted by the provisions. The price adjustment provisions are only applicable to "Asphalt Cement;" they are not applicable to cutback asphalt or emulsified asphalt. The term "Asphalt Cement" as used herein is applicable to PG grades as specified in Subsection 703.03.02.

The progress payment will be adjusted upward or downward, as calculated by the "Total Bi-Weekly Adjustment." These adjustments will be determined by the Department and will be based on selling prices for asphalt cement in the Poten & Partners Asphalt Weekly Monitor report. The sources used by the Department to determine the asphalt cement price at any given time will be the selling prices for California/Utah/Idaho/Nevada for non-modified paving grades and the California paving grades. The average of the high and low selling price for each of the following areas will be used: Utah - Salt Lake City area; Idaho - Boise area, Eastern markets, Northern markets [includes E.WA]; Nevada - Las Vegas area, Reno area; California - San Francisco area, Los Angeles area, Bakersfield area. Each of these nine average area prices is then used to calculate the weekly average price; the weekly average price is used to calculate the "Base Price" and the "Current Price." The adjustment will be made by comparing a "Base Price" to the "Current Price." The method for making this adjustment is described in the following paragraphs:

- (a) The "Base Price" is the weekly average price using the prices posted on the Monday of the bid opening. The "Base Price" will be determined by the Department on a weekly basis. The "Base Price" in effect for the week a contract bid opening occurs will be the "Base Price" for the contract.

The "Base Price" for "Asphalt Cement" will be available on an informational basis to interested parties but said prices will not be available prior to the first regular business day of the week of the bid opening. The price may be obtained on the Department's website at: <https://www.nevadadot.com/home/showdocument?id=2025>.

- (b) The "Current Price" is the weekly average price using the prices posted on the Monday prior to the end of the progress payment period. During the time "Asphalt Cement" is used on the contract, the Department will maintain the "Current Price" on a weekly basis.
- (c) The adjustment for said "Asphalt Cement" will be subject to increase or decrease in accordance with the following provision for "Asphalt Cement" price fluctuations exceeding 10%. The adjustment will be determined in accordance with the following formulas for "Asphalt Cement" used during the progress payment period:

For the Adjustment to be applied to both Dense Grade Plantmix and Open Graded Plantmix:

$$\text{Total Bi-Weekly Adjustment per Item} = Pa * Q$$

For the Unit Price Adjustment:

$$Pa = (Cp - A) * Ix$$

For an increase or decrease in the Weekly Materials Adjustment Index exceeding 10% of the Base Price:

$$A = Bp + (0.10 * Bp)$$

If current price is higher than base price, formula should include +  
If current price is lower than base price, formula should include -

Where:

- A = The Adjusted Base Price
- Bp = The Base Price for the week in which the bid opening for the contract occurred
- Cp = The Current Price for the week of the progress payment period
- Pa = Unit Price Adjustment
- Ix = Index Factor which is defined as 5% (0.05) for Dense Grade Plantmix and 6.5% (0.065) for Open Graded Plantmix
- Q = Quantity in tons of Dense Grade Plantmix or Open Graded Plantmix

- (d) The adjustment in compensation shall also be subject to the following:
1. The compensation adjustments provided herein, will be shown separately on the progress payment. The Contractor shall be liable to the State for decreased compensation adjustments and the Department shall deduct the amount thereof from any monies due or that may become due the Contractor.
  2. The Department reserves the right to terminate the contract whenever the "Current Price" exceeds the "Base Price" by 75%. The contract may be terminated in part or in whole by the Department.

**109.05 Fuel Escalation.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

The use of the price adjustment provisions developed and implemented herein are intended to minimize the cost effects of price uncertainty to the Contractor and the Department for fuel used in the construction of the contract. The price adjustment provisions are not intended to compensate the Contractor for what would be considered normal day-to-day fluctuations or seasonal changes. The price adjustment provisions are not intended to serve as a guarantee for full compensation for fuel price fluctuations but are intended to provide for a sharing, by the Department, in a portion of the Contractor's risk which could result from unusual price fluctuations. The price adjustment provisions do not serve to relieve the Contractor of risks associated with fluctuation in prices beyond the amount adjusted by the provisions.

The Fuel Escalation Clause, as described herein, shall be in effect throughout the life of the contract on every progress payment.

The progress payment will be adjusted upward or downward as calculated by the "Total Bi-Weekly Adjustment."

The adjustment will be determined by the Department using the weekly average diesel (No. 2 fuel oil) price postings for Reno and Las Vegas as provided by Oil Price Information Services. The weekly average price data will be available on an informational basis to interested parties but said prices will not be available prior to the first regular business day of the week of the bid opening. The price may be obtained on the Department's website at: <https://www.nevadadot.com/home/showdocument?id=2027>.

The adjustment will be calculated by comparing a "Base Price" to the "Current Price." The method for determining the adjustment will be as described in the following paragraphs:

- (a) Fuel Factor (Ff). The "Fuel Factor" is an estimated fuel factor as a percentage of construction cost as determined by the Department. Fuel Factor (Ff) is 5.0% (0.05).
- (b) Base Price (Bp). The "Base Price" is the weekly average price using the prices posted on the Monday of the bid opening.
- (c) Current Price (Cp). The "Current Price" is the weekly average price using the prices posted on the Monday prior to the end of the progress payment period.
- (d) The adjustment for said fuel escalation will be subject to increase or decrease in accordance with the following provisions for fuel price fluctuations exceeding 10%. The adjustment will be determined in accordance with the following formula used during the progress payment period:

For the Adjustment to be applied:

$$\text{Total Bi-Weekly Adjustment} = Pa * Q$$

For the Unit Price Adjustment:

$$Pa = (Cp - A) * Ff$$

For an increase or decrease in fuel adjustment prices that exceed 10% of the "Base Price":

$$A = Bp + (0.10 * Bp)$$

If current price is higher than base price, formula should include +  
If current price is lower than base price, formula should include -

- Where:
- A = The Adjusted Base Price
  - Bp = The Base Price for the week in which the bid opening for the contract occurred
  - Cp = The Current Price for the week of the progress payment period
  - Ff = The Fuel Factor as a percentage
  - Pa = Unit Price Adjustment
  - Q = Bid Item Earned Value (excluding payments for Stockpiled Materials)

- (e) The adjustment in compensation shall also be subject to the following:
  - 1. Payment of compensation provided herein will be made as part of the progress payment. The Contractor shall be liable to the state for decreased compensation adjustments and the Department may deduct the amount thereof from any monies due or that may become due the Contractor.
  - 2. The Department reserves the right to terminate the contract whenever the "Current Price" exceeds the "Base Price" by 75%. The contract may be terminated in part or in whole by the Department.

**109.06 Partial Payment.** The first paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Progress payments will be made biweekly as the work satisfactorily progresses. The progress payments will be based upon material in place, or on the job site and invoiced, and labor expended thereon. The contract price will be adjusted upward or downward according to approved changes throughout the life of the contract. The Department shall withhold retention in the amount of 2.5% of each biweekly progress payment until the entire contract is completed satisfactorily, all required material certifications have been accepted by the Department and Final Inspection and Acceptance in accordance with Section 105.16 of the Specifications is granted. Retention shall be reduced to \$50,000 when the aforementioned conditions have been met. The Department

may reduce the retention from \$50,000 to a minimum of \$10,000 if sufficient reasons exist for reduced retention and written approval has been obtained from every surety furnishing bonds for the work. Any remaining retention shall be withheld until the conditions of Section 109.07 Acceptance and Final Payment of the Specifications have been satisfied.

The fifth full paragraph, including subparagraphs (a) and (b), on page 76 of the Standard Specifications is hereby deleted.

The third and fourth sentences of the second to last indented paragraph from the bottom of page 76 of the Standard Specifications are hereby deleted.

The word "original" in two places in the last indented paragraph at the bottom of page 76 of the Standard Specifications is hereby deleted.

The word "original" in five places in subparagraph (c) Mobilization on the middle of page 77 of the Standard Specifications is hereby deleted.

**109.08 Payments to Subcontractors.** The second paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Report payments made to each subcontractor and each DBE/SBE supplier via the Department's Civil Rights and Labor (CRL) reporting software by the 15th day of each month following payment. Access to the software is provided at no cost. Ensure that subcontractors report their payments to lower-tier subcontractors via the CRL reporting software. Ensure that subcontractors verify payments made to them via the CRL reporting software. If subcontractors do not confirm payments via the CRL reporting software, proof of payment may be required. Reporting via the CRL reporting software is considered a necessary portion of the work and partial payments as set forth under Subsection 109.06 may not be forthcoming until this requirement is complied with.

## **SECTION 110 - WAGES AND CONDITIONS OF EMPLOYMENT**

**110.01 Description.** The sixth and seventh paragraphs of this Subsection of the Standard Specifications are hereby deleted and the following substituted therefore:

The minimum wage rates apply to workers working upon the "site of the work." The term "site of the work" is defined per NRS 338.040, NAC 338.009, and 29 CFR § 5.2(I).

The last paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Submit payrolls electronically into the Department's Civil Rights and Labor (CRL) reporting software on a weekly basis. This requirement will apply to the prime Contractor and every lower tier Subcontractor, service provider and vendor required to provide certified payroll reports by NRS 338.010 to 338.090 inclusive and the applicable parts of 29 CFR. Access to the CRL reporting software will be provided at no cost for the duration of the contract.

List, for each employee, a designation of race, ethnicity, color, or national origin, and male/female identifier on each weekly payroll.

For standardization purposes the Department has established the following identifications:

CAUC - White/Caucasian: Persons having origins in Europe, North Africa or the Middle East.

BLK - Black/African American (except Hispanic): Persons having origins in any of the Black racial groups of Africa.

AM-IN - Native American - American Indian or Alaskan Native: Persons having origins in any of the original peoples of North America and who maintain their culture through a tribe or community.

HW-PF - Hawaiian or other Pacific Islander: Persons having origins in the original peoples of Hawaii or other Pacific Islands.

Asian: Persons having origins in any of the peoples of the Far East, Southeast Asia, or India.

HISP - Hispanic Americans: Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

T-MR - Two or More Races: Persons who identify with two or more designations listed above, or other persons protected from employment discrimination by EEO law, based on race, ethnicity, color or national origin, not otherwise defined.

NTSP - Not Specified: Only for persons who specifically request not to list their race, ethnicity, color or national origin.

## SECTION 200 - CONSTRUCTION STAKEOUT

This Section of the Standard Specifications is hereby deleted and the following substituted therefore:

### DESCRIPTION

**200.01.01 General.** This work to be performed by the Contractor consists of the construction surveying, calculating, and staking necessary for the construction of various elements of the project.

Unless specified otherwise, all survey procedures shall be in conformance with the Department's Construction Survey Manual.

**200.01.02 Contractor Stakeout.** Perform the following construction stakeout in accordance with the plans, these Special Provisions, the Department's Construction Survey Manual, and as directed:

1. Perform complete stakeout of bridge structures, including the approach slabs and slope paving, and all stakeout necessary to construct bridge structures to completion.
2. On major structures constructed with structural steel girders, obtain tenth point elevations in accordance with the plan camber diagram on the erected unloaded girders and provide elevation information to the Engineer prior to installing the deck forms, including any stay-in-place forms.
3. Perform the stakeout for permanent pavement striping as specified in Subsection 632.03.01.
4. Provide any additional benchmarks, reference points, or other controls that may be required.

Replace construction stakeout work as needed during construction and as directed to control the work.

Be responsible for the accuracy of the construction stakeout work performed. Correct errors in stakeout and related work performed, at own expense.

When tying into existing roadway features, verify elevation and alignment at match points. Give notification of all elevation and alignment discrepancies prior to proceeding with the work.

Submit all survey records upon completion of the project. Survey records shall become the property of the Department.

### CONSTRUCTION

**200.03.01 Equipment.** Furnish all personnel, survey equipment, safety equipment, materials, and traffic control necessary to perform the required construction surveying and staking outlined in Subsection 200.01.02. All surveying equipment, including Electronic Distance Meters (EDM), total stations, theodolites, levels, rods, tapes, tripods, tribrachs, and Global Positioning System (GPS) receivers and equipment shall be checked and calibrated by the manufacturer and documented in the survey records prior to the start of work and every six months thereafter. Provide a certificate of calibration to the Engineer.

**200.03.02 Grade for Machine Laydown.** 3D Engineered Construction Surveying (3DECS) may be used to supplement construction staking to reduce the amount of staking needed for construction.

Use 3D model information provided by or generated from information supplied by the Department, or as generated in conjunction with construction equipment controlled by GPS and/or robotic total station (RTS) instruments, to guide the equipment during construction operations of specific items such as subgrade, subbase, base course, and other roadway structure materials, ditches, and other planned excavations and embankment of the project.

If electing to use 3DECS, the following applies:

1. Designate a 3DECS Supervisor assigned to this work. This person is responsible for all processes of this work including the coordination of the verification with the Department. This person shall be qualified to perform and/or supervise personnel during the setup, operation, and adjustment of all necessary equipment for this process to achieve the accuracy and standards for the material placement it will be controlling.
2. The 3DECS Supervisor shall have at least 2 years of experience directly related to 3DECS surveying in a supervisory or responsible capacity. Submit for review and approval the name and qualifications of this person 7 days in advance of the date set for the preconstruction conference.
3. The 3DECS Supervisor shall be an employee of the Contractor or subcontractor, under the direct supervision of the superintendent, and dedicated solely to the contract.
4. The 3DECS Supervisor shall perform or supervise the performance of accuracy verifications a minimum of 3 times per shift (setup and beginning of production, approximate middle of production shift, and end of production with tear down check-in). If discrepancies are discovered, additional accuracy verifications shall be required until accuracy is confirmed. Do not allow material placements more than 500 feet along centerline beyond verified sections/areas. Any material placed beyond verified sections or areas will be subject to corrections and/or removal at no cost to the Department. Verifications shall be performed with the survey equipment as used in the production work and stored in the electronic file format matching the collected and used data for the production or placements.
5. All surveying shall be based on the horizontal and vertical control established by the Department.
6. Provide construction stakes for the control points of the project centerline or Engineer approved offset line and angle points, all of which shall be established from primary control monuments and their assigned coordinates as shown on the plans.
7. Staking for the project centerline or offset shall be established from the project centerline control points as shown on the plans to provide a method of machine control equipment checks, inspection, and field verification.
8. The maximum staking interval for the project centerline shall be 500 feet on tangents and 100 feet on curves, or as specified. All project centerline control points as shown on the plans shall be staked.
9. On the first day of a production run, an initial test section of at least 500 linear feet along centerline and to a minimum width and depth specified by the contract plans' typical sections, or as directed, of product placed will be required to verify the survey control used in production of any material placed meets the positional tolerances according to the Department's Construction Survey Manual. No further production work in this process will be allowed until this verification is completed and approved by the Department. This test section shall be required each time there is a change outside of the original modeled test section to the base control, equipment, or components.

Provide the model in a format compatible with and of the appropriate size to allow for data processing by the Department's survey equipment.

At no cost to the Department, the Contractor shall revert to traditional surveying and discontinue any further use of 3DECS should the Engineer determine the existence of contractor quality or accuracy issues related to 3DECS in accordance with the Department's survey standards.

#### METHOD OF MEASUREMENT

**200.04.01 Measurement.** Construction stakeout will not be measured for payment.

#### BASIS OF PAYMENT

**200.05.01 Payment.** There shall be no direct payment for construction stakeout and all work involved shall be considered included in the various contract bid items of work requiring construction stakeout.

**SECTION 202 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

**202.03.03 Removal of Bituminous Surface by Cold Milling.** The third paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Use a machine capable of accurately establishing profile grades, within plus or minus 0.25 inches, by referencing from the existing pavement or concrete bridge decks or from an independent grade control and having a positive means for controlling cross slope elevations. When referencing from the existing pavement or concrete surface on bridge decks, use a moving reference at least 20 feet in length, unless otherwise approved. The moving reference may be a floating beam, ski, or other suitable type such that the resulting milled surface is sufficiently even.

**202.03.08 Salvage.** Salvage and use the material produced by the cold milling of bituminous surface as shouldering material as shown on the plans.

Cold milled material may be utilized for recycled asphalt pavement as allowed in Section 402. The Contractor may incorporate such millings directly into the work or may replenish their existing stockpiles with a quantity of millings used on the contract as allowed herein. Contractor is responsible for disposal of all millings at no direct payment.

**SECTION 302 - AGGREGATE BASE COURSES**

**302.02.01 General.** In lieu of Type 1 or Type 2 Aggregate Base meeting the requirements specified in Section 704, the material may contain a mixture of mineral aggregate, recycled concrete, and recycled asphalt pavement. Blend the materials to be consistent and homogeneous.

The percentage of recycled asphalt pavement in the material will be determined by screening the portion retained on the No. 4 sieve from a representative stockpile sample and counting the individual particles as either recycled asphalt pavement or native material. The percentage of recycled asphalt pavement, by mass of the total material, will then be calculated.

Material containing 0 to 15% recycled asphalt pavement shall conform to the requirements for Type 1 or Type 2 Aggregate Base.

Material containing more than 15% but less than 85% recycled asphalt pavement shall conform to the requirements for Type 1 or Type 2 Aggregate Base and will only be allowed in the bottom half of the specified base layer thickness.

Material containing 85 to 100% recycled asphalt pavement will only be allowed in the bottom half of the specified base layer thickness and the material shall conform to the following requirements:

| Sieve Size   | Percent Passing by Mass |
|--------------|-------------------------|
| 1 inch ..... | 100                     |
| No. 4 .....  | 30-65                   |

| Project Control Tests    | Test Method     | Requirements |
|--------------------------|-----------------|--------------|
| Sieve Analysis .....     | Nev. T206 ..... | Above        |
| Sampling Aggregate ..... | Nev. T200 ..... | —            |

**302.03.06 Compaction.** Place aggregate base consisting of 85 to 100% recycled asphalt pavement in layers not exceeding 4 inches in compacted thickness. Compact such material according to Control Strip (Method C) as specified in Subsection 402.03.06 or as directed.

**SECTION 401 - PLANTMIX BITUMINOUS PAVEMENTS - GENERAL**

**401.02.02 Composition of Mixtures.** Asphalt Cement, Grade PG 64-28NV or Grade PG 64-28NVTR shall be the only grade permitted for use in plantmix bituminous dense-graded and open-graded aggregate mixtures.

The fourth sentence of paragraph (b) on page 145 of the Standard Specifications is hereby deleted and the following substituted therefore:

Identify the asphalt cement supplier and shipping point, as well as the tack coat supplier and type in the job-mix formula.

**401.03.01 Bituminous Mixing Plant.** Add the following after the third sentence of the first full paragraph on page 149 of the Standard Specifications:

Once the calibration results are submitted and prior to approval, the Department will verify the results. Demonstrate that each metering device is calibrated by operating at the indicated rate of speed.

In the third full indented paragraph on page 149 of the Standard Specifications, the words "received and" are hereby deleted.

The last sentence of paragraph "h. Mixer" on the top of page 152 of the Standard Specifications is hereby deleted.

The second sentence of the first paragraph of "c. Mass Calibration of Aggregate" on page 152 of the Standard Specifications is hereby deleted and the following substituted therefore:

If the rate of feed for each individual aggregate feeder bin cannot be visually verified on the plant controls, supply a graph of each individual bin showing the speed of the belt to the tons per hour of the material.

In the last sentence of paragraph "d. Bitumen Metering Device and Calibration" on page 152 of the Standard Specifications, add "or gallons" between the words "masses" and "shown."

The last sentence of paragraph "f. Mixer" on the bottom of page 152 of the Standard Specifications is hereby deleted.

**401.03.03 Pavers.** The first indented paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

When picking up grade information from an underlying base, the external longitudinal reference device shall be a floating beam at least 30 feet long or a non-contact averaging ski with a minimum of 3 sensors.

Use a Material Transfer Vehicle (MTV) for all mainline paving operations. Use an MTV that is self-propelled and can operate independently of the paver. The MTV shall have an internal chamber for remixing, including multi-pitch augers, a covered conveyor system to prevent heat loss, and a capacity of 15 to 25 tons. In conjunction with the MTV, use a paver hopper insert that prevents the paver wings from being closed and increases hopper capacity.

**401.03.04 Rollers.** The last sentence of Subparagraph (b) of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Fully skirt the roller with rigid material to within 4 inches of pavement surface.

**401.03.05 Weather Limitations.** In addition to the temperature limitations specified in this Subsection of the Standard Specifications, do not place plantmix bituminous open-graded surface after November 1 in a given construction season.

**401.03.11 Rolling.** Do not accelerate the cooling of the pavement by any means, including but not limited to application of water or lime-water, unless otherwise approved.

**401.03.14 Surfacing Miscellaneous Areas.** Add the following after the second paragraph of this Subsection of the Standard Specifications:

An approved Type 3 dense-graded job-mix formula may be substituted. Increase the bitumen ratio by not less than 0.5% by dry weight of aggregate over the Type 3 dense-graded job-mix formula in the bituminous mixture placed in gutters, gutter flares, dikes (excluding plantmix shoulder dikes), down drains, spillways, aprons at the end of drainage structures and other designated areas outside the traveled way.

**401.03.16 Shoulder Dikes.** An approved Type 3 dense-graded job-mix formula may be substituted. Increase the bitumen ratio by not less than 0.5% by dry weight of aggregate over the Type 3 dense-graded job-mix formula in the bituminous mixture placed in shoulder dikes. The requirement for minimum temperature of the mixture at the paver does not apply.

## SECTION 402 - PLANTMIX BITUMINOUS SURFACE

**402.03.03 Equipment.** The second paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Furnish a vehicle-mounted inertial profiling system meeting the applicable requirements of AASHTO M328, R56, and R57.

A minimum of 7 working days prior to beginning collection of profile data, submit a copy of the operator's manual for the profiler that is to be used and documentation that the inertial profiler and operator are certified according to the requirements of AASHTO R56 or other equivalent Department-accepted certification program. The profiler operator shall be certified to operate the actual profiler that is to be used.

Calibrate the following components of the inertial profiling system according to the manufacturer's recommendations at the intervals specified in the operator's manual for the inertial profiler that is furnished or at any time deemed necessary:

1. Accelerometer Calibration (if specified by the manufacturer) or Accelerometer Verification.
2. Longitudinal Distance Calibration or DMI Calibration Test.
3. Vertical Height Calibration (if specified by the manufacturer) or Vertical Height Verification.
4. Any other test as recommended by the manufacturer of the inertial profiler.

If calibration procedures are not indicated by the manufacturer, submit a proposed procedure for calibration and/or verification of calibration for approval.

The calibration shall be observed by and approved at the discretion of the Engineer.

Use an inertial profiling system capable of measuring the left and right wheel paths of a travel lane and determining the smoothness of the pavement surface using the International Roughness Index (IRI) format.

The inertial profiling system shall have a printer capable of providing the calculated IRI for each wheel path and Mean Roughness Index (MRI) in inches per mile for each 0.1 mile section. The printer shall also be capable of printing station numbers, distances, and comments entered by the operator via keypad while measuring the profiles.

The laser height referencing transducer may consist of a single point or spot laser, or a line laser with a minimum 4 inch wide footprint when measuring the plantmix bituminous surface.

**402.03.05 Surface Tolerances.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Type D pavement smoothness is required.

Produce completed surfacing which is smooth and free from ruts, humps, depressions or irregularities. Eliminate ridges, indentations, or other objectionable marks left in the surface by rolling or other means. Discontinue the use of equipment that leaves ridges, indentations, or other objectionable marks in the bituminous surface, or does not consistently produce a surface meeting straightedge and inertial profiler requirements.

After final rolling, the smoothness of the final dense-graded surface course shall meet the straightedge and inertial profiler requirements. Furnish the specified inertial profiler and perform the profile measurement.

(a) Straightedge Measurement. The Engineer will perform this measurement. When a straightedge 12 feet long is laid on the finished surface both perpendicular and parallel with the centerline of the highway, the surface shall not vary by more than 0.25 inch from the lower edge of the straightedge.

Correct defective areas by approved methods.

(b) Inertial Profiler Measurement. Measure the pavement with the inertial profiling system according to Test Method No. Nev. T448. Give notification at least 2 working days prior to beginning the measurement process.

Operate the inertial profiler within the operational range as recommended by the manufacturer.

Perform the profile measurement in the direction of traffic.

Measure the profiles of the left and right wheel paths within each traffic lane at 3 feet from and parallel to the respective left or right traffic lane line. The spacing between sensor paths shall be between 66 and 72 inches.

Mark areas of localized roughness in excess of the specified limit after the initial run of the inertial profiler.

Do not measure pavement for MRI within 50 feet of the leading edge nor within 50 feet of the trailing edge of a manhole, cattle guard, or any other break in the continuous pavement. Do not measure pavement for MRI within 50 feet of the leading edge nor within 50 feet of the trailing edge of a concrete bridge deck (including approach slabs) unless the bridge deck is to receive a plantmix overlay.

Pavement within 50 feet of the leading edge or within 50 feet of the trailing edge of a bridge deck or approach slab shall meet the profile requirements set forth in Subsection 502.03.16.

Calculate a Mean Roughness Index (MRI) for each 0.100 mile of traffic lane measured.

Submit the measured profile data in an approved unfiltered electronic format within 24 hours of the completion of the measurement. The submitted format shall be compatible with Profile Viewing and Analysis (ProVAL) software. In addition to the electronic format file, provide a printout of the report of calibration for the profiler and a printed summary report within 24 hours of the completion of a measurement run. The required elements of the printed report shall be as shown in Test Method No. Nev. T448.

Profile data will be evaluated to determine acceptance.

Profile data will be evaluated for any areas of localized roughness with an International Roughness Index (IRI) in excess of specification requirements for the designated pavement smoothness type. An area of localized roughness is defined as any 25 foot section of roadway that contributes disproportionately to the overall roughness index value. Areas of localized roughness shall be identified using a report of short continuous IRI with a base length of 25 feet. This yields the IRI of every possible 25-ft segment. Any segment for which the continuous report exceeds a threshold IRI value is considered a defective segment requiring correction.

The maximum allowable IRI for each area of localized roughness for the specified pavement smoothness type shall be as follows:

| <b>INTERNATIONAL ROUGHNESS INDEX</b> |                  |
|--------------------------------------|------------------|
| <b>LOCALIZED ROUGHNESS</b>           |                  |
| <b>Pavement Smoothness Type</b>      | <b>inch/mile</b> |
| Type A                               | 150.000          |
| Type B                               | 160.000          |
| Type C                               | 180.000          |
| Type D                               | 200.000          |

Pavement on horizontal curves having a centerline radius of less than 2,000 feet, and within the super elevation transition of such curves, will be evaluated as pavement smoothness Type C.

The Department will perform verification testing using an inertial profiler meeting the requirements of Subsection 402.03.03.

The Contractor's overall MRI values shall be within 5% of the Department's overall MRI values. Re-measure sections that exceed the 5% difference criteria. If results still exceed 5% difference, the Contractor can accept the Department's results or have referee testing performed by an independent party who shall be required to conform to all of the requirements specified herein. If all the referee testing results are within 5% of the Contractor's test results, the Department will reimburse the Contractor for the cost of the referee testing.

Locate and correct areas exceeding the pavement smoothness requirements.

Submit the intended method of correction for approval. Do not perform corrective action until the submitted data has been evaluated and the intended method of correction has been approved.

If abrasive grinding is approved and used as a method of correction, ensure that the grinding process does not significantly reduce the pavement thickness. The Department reserves the right to obtain core samples to determine remaining pavement thickness upon completion of grinding operations. Perform additional grinding as necessary

to extend the ground area laterally to the nearest lane line or edge of pavement and longitudinally to lines normal to the pavement centerline.

Re-measure repaired, replaced, or corrected areas for conformance with pavement smoothness requirements.

Upon completion of corrective work, submit the profile data and related printed summary within 24 hours of completion of corrective work. The data shall indicate corrected areas meet pavement smoothness requirements.

Apply seal coat to ground areas after the surface tolerance specifications have been met. Apply the seal coat according to Section 407. If a final wearing course is to be applied within two weeks of completion of grinding, the seal coat may be omitted.

The grinding machine for correcting pavement exceeding the profile requirements shall be power driven, self-propelled and specifically designed to remove, profile, smooth, and texture hot mix asphalt or Portland cement concrete. Use a grinding machine with an overall wheel base of not less than 12 feet, equipped with a rotating powered mandrel drum equipped with diamond blades with a cutting head not less than 3 feet wide. Equip the grinding machine with an effective means for controlling dust and other particulate matter.

Do not cause permanent strain or damage to the underlying surface of the pavement with the grinding machine. Do not use grinding and texturing equipment that causes ravels, aggregate fractures, spalls, or disturbance of joints.

Perform grinding in a longitudinal direction. Satisfactorily grind to produce a uniform textured surface over the surface areas designated for grinding.

The surface of the ground pavement shall have parallel corduroy-type texture consisting of grooves between 0.09 and 0.13 inch wide. The peaks of the ridges shall be approximately 0.0625 inch higher than the bottom of the grooves with 52 to 57 grooves per foot.

Pick up and dispose of grinding materials, including water used for the grinding operation, outside the right of way according to Subsection 107.14.

**402.03.06 Compaction.** Perform compaction according to "Method B."

Density test requirements in this Subsection of the Standard Specifications will be reported to the one-tenth of one percent accuracy.

The last sentence of the fourth paragraph on Page 163 of the Standard Specifications is hereby deleted and the following substituted therefore:

The mean density of the 5 nuclear tests shall not be below 92.0% nor above 96.0% (with no single test below 90.0% nor above 97.0%) of the target density obtained in the Department's Field Laboratory using Test Method No. Nev. T325.

The last sentence of the second to last paragraph on Page 163 of the Standard Specifications is hereby deleted and the following substituted therefore:

A new control strip will be required when 20 test sections have been constructed without establishment of a new control strip.

**402.05.01 Payment.** The compensation payable for the additional quantity of asphalt cement and mineral filler added at the direction of the Engineer according to Subsection 401.02.02 will be made at the following set unit prices:

|   |                  |
|---|------------------|
| Asphalt Cement, PG 64-28NV and PG 64-28NVTR ..... | \$820.00 per ton |
| Mineral Filler, Marination Method .....           | \$150.00 per ton |

**SECTION 403 - PLANTMIX BITUMINOUS OPEN-GRADED SURFACE**

**403.03.04 Surface Tolerances.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Type D pavement smoothness is required.

Produce completed surfacing which meets the straightedge and inertial profiler requirements of Subsection 402.03.05 with the following additions and exceptions to the inertial profiler measurement.

Furnish an inertial profiling system meeting the requirements of Subsection 402.03.03 and measure the pavement as specified in Subsection 402.03.05.

Include 25 feet of the existing pavement on each end of the project in the profile determination. Make construction joints with the existing pavement meet the requirements of this Subsection.

Liquidated damages of \$2,500.00 will be assessed for each defect (MRI, IRI, and straightedge) within each one-tenth mile section exceeding the pavement smoothness type and straightedge requirements. The cumulative amount of liquidated damages for each travel lane within each one-tenth mile section shall not exceed \$20,000.00

Abrasive grinding for correcting pavement smoothness will not be permitted on any open-graded paving or wearing course surface.

Removing and replacing the open-graded paving or wearing course surface may be required in lieu of assessing the maximum cumulative amount of \$20,000.00 in liquidated damages for exceeding the pavement smoothness type and straightedge requirements.

### SECTION 405 – TACK COAT

**405.03.01 Equipment.** Subparagraph “(c)” of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

- (c) Positive automatic in-cab controls including tachometer, pressure gages, and digital volume measuring device.

**405.03.04 Application of Bituminous Materials.** Manually check the spray rate by measuring the volume of emulsion in the tank before spraying and rechecking the volume in the tank after spraying. The project superintendent shall check the depths on the calibration stick with the Engineer prior to placement. Uniformly apply asphalt within 0.02 gal/yd<sup>2</sup> of the required rate. Failure to comply with the requirements for distribution equipment or providing weigh back tickets to accurately determine the application of emulsified or cutback asphalt will be deemed as failing material. Twenty-one demerits will be assessed and subject to the provisions of Subsection 109.02

### SECTION 406 – PRIME COAT

**406.03.04 Application of Bituminous Material.** The table at the top of page 176 of the Standard Specifications is hereby deleted and the following substituted therefore:

#### SPRAYING AND MIXING TEMPERATURES OF EMULSIFIED ASPHALTS

| Grade of Emulsified Asphalt | Distributor Spraying Temperature °C (°F) |          | *Pugmill Mixing Temperature of Emulsions and Aggregates °C (°F) |          |
|-----------------------------|--|----------|---|----------|
|                             | Minimum                                  | Maximum  | Minimum   | Maximum  |
| CRS-2nv .....               | 57 (135)                                 | 85 (185) | (Not used for Mixing)   |          |
| CQS-1nv .....               | 21 (70)                                  | 71 (160) | (Not used for Mixing)   |          |
| SS-1, CSS-1 .....           | 21 (70)                                  | 71 (160) | 10 (50)   | 71 (160) |
| SS-1h, CSS-1h .....         | 21 (70)                                  | 71 (160) | 10 (50)   | 71 (160) |
| CMS-2s, CQS-1h .....        | 21 (70)                                  | 71 (160) | 10 (50)   | 71 (160) |
| QSE, QSRE .....             | 21 (70)                                  | 71 (160) | (Not used for Mixing)   |          |
| LMCRS-2h .....              | 57 (135)                                 | 85 (185) | (Not used for Mixing)   |          |
| PMPS-h, PMRE-h .....        | 57 (135)                                 | 85 (185) | (Not used for Mixing)   |          |
| PMPS-FS .....               | 43 (110)                                 | 85 (185) | (Not used for Mixing)   |          |
| MSE, MSE-h, PMCQS-1nv ..... | (Not used for Spraying)                  |          | 21 (70)   | 71 (160) |

\*The maximum spraying temperature may be used if the aggregate is not heated.

### SECTION 501 - PORTLAND CEMENT CONCRETE

**501.02.01 General.** The air-entrained class of concrete shall be required where the option of an air-entrained class of concrete is indicated on the plans or specifications.

Class S and SA concrete may be substituted for selected applications for Classes A, AA, D, DA, PAA, Modified A, AA, Modified D, DA, as approved by the Engineer. When the option of Class S or SA concrete is approved,

submit details of a representative test section (mockup) for approval. Produce a trial batch of Class S and SA concrete, conforming to the proposed mix design.

Sample and perform all tests for Class S and SA concrete within the first two trucks for the first sample frequency.

**501.02.03 Cement.** The second sentence of the first paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

In lieu of this requirement, Type II cement with a minimum of 20% pozzolan by mass or Type IL cement with a minimum of 20% pozzolan by mass or Type IP cement may be substituted therefore.

The second paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

For Class S and SA concrete, the maximum shrinkage requirement of 0.06% in 28 days air dry after 28 day wet cure (ASTM C157) shall apply, excluding drilled shaft applications.

**501.02.04 Admixtures.** The last sentence of the last paragraph on page 208 of the Standard Specifications is hereby deleted.

Class S and SA concrete admixture systems shall conform to AASHTO M194 (ASTM C494) Type F or Type G, or ASTM C 1017 requirements. Use viscosity modifying admixtures (VMA) in the mix design. The mix design shall outline the dosage rate in oz/cwt. VMA's shall conform to ASTM C494, Type S. Adjust the dosage rate within the manufacturer's recommended range in order to obtain the desired flow and segregation characteristics while maintaining the required VSI.

**501.02.05 Concrete Making Properties.** In the first paragraph of this Subsection of the Standard Specifications, the **Test** for Aggregate Correction Factor is hereby deleted.

In the first paragraph of this Subsection of the Standard Specifications, the requirement of **Test Method** for **Test** Specific Gravity and Absorption of Coarse Aggregate of "Nev. T492" is hereby deleted and "Nev. T111" substituted therefore.

Add the following to the list of tests in the first paragraph of this Subsection of the Standard Specifications:

Flexural Strength ..... Nev. T442

In Table I on the middle of page 209 of the Standard Specifications, the Cement Range for Class S and SA Concrete of "380-545 (639-925)" is hereby deleted and "475-545 (799-925)" is substituted therefore.

The second paragraph from the bottom of page 209 of the Standard Specifications is hereby deleted and the following substituted therefore:

Furnish a concrete mix design for extruding barrier or bridge rail. The slump range is 12.5 mm to 50 mm (0.5 in. to 2 in.).

For Class S and SA concrete, the unit weight, air content, and compressive strength will be tested according to Test Method No. Nev. T416.

In addition to meeting the requirements of this Subsection, Class S and SA concrete shall meet the additional following requirements:

| TEST                      | TEST DESIGNATION | REQUIREMENTS               |
|---------------------------|------------------|----------------------------|
| Slump Flow                | Nev. T417        | (a)                        |
| J-Ring                    | Nev. T418        | (b)                        |
| Column Static Segregation | Nev. T420        | Segregation Index 10% Max. |

- (a) The slump flow shall be a single value between 18 and 28 inches and shall be shown on the mix design. The slump flow of the tested concrete shall be within ± 2 inches of the value specified on the mix design. The maximum Visual Stability Index shall not exceed 1.
- (b) The difference in slump flow values between Test Method No. Nev. T417 and Test Method No. Nev. T418 shall not exceed 2 inches.

Add the following to item "9." in the first paragraph on page 210 of the Standard Specifications:

Not applicable for Class S and SA concrete, except for extended time slump requirements for concrete used in drilled shafts as specified in Subsection 509.02.01.

For Class S and SA concrete, add the following to the first paragraph on page 210 of the Standard Specifications:

22. The slump flow, visual stability index, j-ring measurement, and column static segregation index.
23. The shrinkage of concrete (if required).

**501.03.01 Equipment.** Provide a concrete curing box that is equipped with heating/cooling capabilities, automatic temperature control, and a maximum/minimum (high/low) temperature readout in order to maintain the concrete test cylinders within the temperature range and duration required by Test Method Nev. T428. The lid of the concrete curing box shall have a lock mechanism or a loop to accommodate a padlock for the purpose of locking the concrete curing box. Supply 110 V of electrical power to the concrete curing box and provide a secure location where the test cylinders are not subject to vibration. The concrete curing box shall be of sufficient size or number to store, without crowding or wedging, the required number of test cylinders based upon the Contractor's plan of operations. The concrete curing box and location shall be as approved.

For Class S and SA concrete, internal rodding or vibrating shall not be performed without prior approval.

**501.03.03 Storage of Aggregates.** In the third sentence of the third paragraph on page 212 of the Standard Specifications, the words "according to Test Method No. Nev. T112" are hereby added after the word "aggregates."

**501.03.04 Proportions.** When mixing batches of 4 cubic yards or less, the tolerance for Mineral Admixture shall be - 0% to + 4%.

**501.03.06 Mixing.** In the twelfth paragraph on page 214 of the Standard Specifications, the words "or additional water" are hereby deleted.

Prevent cement balling (intermittent clumping) and mix foaming by controlling the batch sequence, mixing speed, and mixing time.

Segregated concrete, as determined by Test Method No. Nev. T417 or Test Method No. Nev. T418, shall not be incorporated into any component of the concrete work.

For Class S and SA concrete, when delivering the concrete to the work site, completely discharge each delivery truck within 60 minutes. The discharge time can be extended to 90 minutes for drilled shafts. In hot weather, or under conditions contributing to quick stiffening of the concrete, a delivery time of less than 60 minutes may be required. The Contractor may propose delivery time exceeding 60 minutes if they can demonstrate during a trial pour that all required fresh concrete properties are maintained for the maximum proposed delivery time. The trial pour shall be completed in similar weather conditions to the anticipated placement conditions.

For Class S and SA concrete, completely discharge each delivery truck within 20 minutes. Place the concrete in continuous layers. When it is necessary by reason of emergency or other delay to place less than a complete horizontal layer in one operation, terminate the layer by using a vertical bulkhead. Do not rod or vibrate the concrete to attempt to restore the fluidity to the mix.

## SECTION 609 - INLETS AND MANHOLES

**609.03.02 Adjusting Manhole and Valve Covers.** In the first sentence of the fifth paragraph of this Subsection of the Standard Specifications, the "90%" is hereby deleted and "95%" substituted therefore.

The Contractor shall protect against any damage to pipes, conduits, manholes or other structures during the execution of work and shall be responsible for any damage done to such pipes, structures or properly resulting therefrom. If a utility is affected, the utility company shall be notified immediately by the Contractor of any damage. Contractor shall protect all existing structures and property from damage and shall provide bracing, shoring or other work necessary for such protection.

The Contractor shall in no way interfere with the operation of existing sewers, except as specified herein and shall exercise every precaution to ensure that debris and material from construction operations do not enter the

sewer system. Any debris or blockage entering into the sewer or storm drain as a result of the Contractor's work shall be immediately removed at the Contractor's expense.

The Contractor shall in no way interfere with the operation of existing sewers, except as specified herein and shall exercise every precaution to ensure that debris and material from construction operations do not enter the sewer system. Any debris or blockage entering into the sewer or storm drain as a result of the Contractor's work shall be immediately removed at the Contractor's expense.

Prior to lowering any sanitary manholes the contractor shall provide a "Debris Containment Plan" to the Engineer. This plan shall contain the type of debris catcher the contractor will use and the Contractor's emergency contact phone numbers.

The Contractor shall verify all manholes and valves are clear of debris at the beginning of the project and notify the utility companies if otherwise.

A "Manhole Protection Plan" shall be submitted and approved by the Engineer prior to any manhole adjustments. The plan shall clearly identify how the contractor will protect ANY debris from entering the system and a detail of how the Contractor is prepared for emergency overflows. To the minimum, the plan shall include the name, phone number, and contact of the company the contractor will use in case of an emergency. Prior to performing any adjustment, the Engineer shall observe and verify the Contractor is in compliance with the "Manhole Protection Plan."

**609.03.05 Manhole Protective Coating.** The Contractor shall note that sewer manholes within the project limits may contain protective coating inside the manhole including the grade rings, frames, and covers. The Contractor shall use extreme care when removing, working in and around manholes that contain protective coatings. Techniques such as "scoring" ring section joints may be necessary prior to removal of manhole rings. Damaged manhole cones and barrels coating shall be replaced at the Contractor's expense.

**SECTION 618 - GUARDRAIL**

**618.01.01 General.** This work also consists of removing and resetting guardrail.

**618.03.02 Reconstruct Guardrail.** This Subsection of the Standard Specification is hereby deleted and the following substituted therefore:

**618.03.03 Remove and Reset Guardrail.** Remove the existing guardrail and end treatment panels and blocks, place blocks behind posts, and temporarily re-install panels to accommodate the work. After the required work is completed, reset the guardrail and end treatment to a condition compliant with the Standard Plans.

Remove and reset guardrail shall not start more than 7 days prior to the start of work requiring the removal and resetting of guardrail. Place guardrail in a condition compliant with the Standard Plans prior to shutdown periods greater than 7 days or within 7 days of the completion of work that required the removal and resetting of guardrail.

Guardrail shall be placed in a condition compliant with the Standard Plans prior to winter suspension.

**618.04.01 Measurement.** Remove and reset guardrail will be measured and paid for once regardless of how many times it needs to be adjusted. Remove and reset guardrail will be measured by the linear foot.

**618.05.01 Payment.** Payment will be made under:

| <b>Pay Item</b>                  | <b>Pay Unit</b> |
|----------------------------------|-----------------|
| Remove and Reset Guardrail ..... | Linear Foot     |

**SECTION 624 – ACCOMMODATIONS FOR PUBLIC TRAFFIC**

**624.01.01 General.** This work consists of supplementing traffic control by providing uniformed traffic control officers.

**624.03.01 General.** The tenth paragraph on page 422 of the Standard Specifications is hereby deleted and the following substituted therefore:

Do not remove guide posts and/or mileposts until final shouldering-up operation. Install new guide posts and/or mileposts within 24 hours of removal. If a guide post and/or milepost is damaged during preliminary shouldering-up operations, replace it in like kind within 24 hours as provided in Subsection 625.03.01.

**624.03.03 Flaggers.** Equip the flagger at each end of the work zone with a watch or suitable timing device. Flaggers at each end of the work zone shall document times when public traffic is stopped and released. Submit the documentation daily on a suitable form at the end of the shift in conjunction with the reconciliation of flagger hours.

Equip the flaggers at each end of the work zone with two way communication radios to allow them to be in contact with each other to control public traffic through the work zone as conditions require.

**624.03.06 Traffic Control Supervisor.** The second sentence of this Subsection is hereby deleted and the following substituted therefore:

The persons so designated shall have at least one year of experience directly related to worksite traffic control in a supervisory or responsible capacity and shall be certified as a Traffic Control Supervisor by ATSSA or Department approved equivalent.

**624.03.07 Uniformed Traffic Control Officer.** Provide Law Enforcement Officers working in accordance with an agreement entered into between the Contractor and the Nevada Highway Patrol or the jurisdictional law enforcement agency. Verify jurisdictional authority and submit agreement prior to the use of services.

**624.04.01 Measurement.** Uniformed traffic control officers will be measured on a force account basis which will be the actual cost as evidenced by copies of invoices from the law enforcement agency who performed the work. To the actual cost will be added the sum of 10% for profit and overhead with no further compensation therefore.

**624.05.01 Payment.** Payment will be made under:

| Pay Item                                | Pay Unit      |
|---|---------------|
| Uniformed Traffic Control Officer ..... | Force Account |

**SECTION 625 – CONSTRUCTION SIGNS**

**625.02.02 Reflectorization.** The second sentence of the eighth paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

When using alternative portable barrier rail, place two way reflectors on top of the rail at a maximum spacing of 20 feet.

**625.02.06 Water Filled Barrier Rail.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

**625.02.06 Alternative Portable Barrier Rail.** Alternative portable barrier rail systems may be substituted for portable precast concrete barrier rail required for the contract, when approved.

Use alternative portable barrier rail listed in the QPL. Select an alternative portable barrier rail appropriate for the regulatory speed of the work area.

Install alternative portable barrier rail in accordance with the manufacturer’s recommendations prior to beginning work in the area protected by the rail. Furnish all manufacturer’s shop drawings, installation instructions, and any other pertinent information prior to installation.

Fill water filled barrier rails with water prior to beginning work in the area protected by the rail. Avoid spillage of water from water filled barrier rail on the traveled way at all times.

**625.03.01 General.** The fourth paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Immediately after removing guide posts, place and maintain salvaged guide posts in a temporarily installed condition or traffic cones at each guide post location until the new guide posts are installed. Salvaged guide posts or traffic cones will not be required at guide posts removed behind guardrail.

Immediately after removing mileposts, place and maintain salvaged mileposts in a temporarily installed condition until the new mileposts are installed.

**625.03.05 Contractor Designed Traffic Control Plans.** The second sentence of the second paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

The proposed traffic control plan shall be prepared and/or certified as to conformance with the above by a Professional Traffic Operation Engineer (PTOE), or a Traffic Control Supervisor certified by ATSSA or Department approved equivalent, and shall include the PTOE registration number or Traffic Control Supervisor certification number of the certifying person.

Provide 8 changeable message signs for the project 10 days prior to construction and coordinate content and location with the Engineer.

The use of Temporary Transverse Rumble Strips and advance warning signage for them will be required during approved speed reductions. Temporary rumble strips shall be spaced per the manufacturer recommendations and placed such that the last rumble strip is located 250 feet prior to the Work Zone Speed Limit sign (R2-1) in the typical traffic control layout, unless otherwise directed by the Engineer. Temporary Transverse Rumble Strips shall be placed and maintained in accordance with manufacturer specifications.

Temporary Transverse Rumble Strips shall be one of the following or approved equal:

1. ATM Removable Rumble Strips
2. RoadQuake 2 Temporary Portable Rumble Strips

To enhance safety and conspicuity a minimum of 2 trailer-mounted speed feedback signs along with yellow flashing beacons placed on the W3-5A signs shall be used during approved speed reductions. Coordinate location with the Engineer

The temporary regulatory speed limit should not be left in effect beyond the daily hours of operations unless the conditions for which the speed reduction was implemented continues to exist, or channeling devices are required to route traffic through the work zone area.

The original regulatory speed limit shall be resumed by posting new signs at the end of the work zone for each direction of traffic.

Flaggers are required for all truck ingress and egress locations and when deemed necessary for safety.

Flaggers will be required at major cross street intersections, unless otherwise approved.

For any traffic control operations that take place at night, the use of portable overhead lighting (trailer mounted balloon lights) will be mandatory at flagging stations, temporary signals, lane tapers and shifts, temporary crossovers, points of ingress/egress of construction traffic, and any other locations within the work zone that need the illumination for the safety of the traveling public as determined by the engineer. The trailer mounted balloon lights shall be a minimum of 2000 watts supply with a metal halide lighting source. Units shall be self-sufficient, easily relocated and adjusted, and capable of operating continuously 1 hour prior to sunset to 1 hour after sunrise. Place, relocate, and adjust trailer mounted balloon lights as directed.

**625.04.01 Measurement.** The first sentence of the third paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Portable precast concrete barrier rail and alternative portable barrier rail will be measured for rental by the linear foot.

**625.05.01 Payment.** The second and third paragraphs of this Subsection of the Standard Specifications are hereby deleted and the following substituted therefore:

Partial payment for Rent Traffic Control Devices (Lump Sum) will be made according to Subsection 109.06.

## **SECTION 628 - MOBILIZATION**

**628.01.01 General.** Add the following to the second paragraph of this Subsection of the Standard Specifications:

The amount of electricity supplied shall be 48kW and 240V.

## SECTION 632 - PERMANENT PAINTED PAVEMENT MARKINGS

**632.03.03 Surface Preparation.** The words “and type” in the second paragraph of this Subsection of the Standard Specifications are hereby deleted.

**632.03.04 Application.** The word “epoxy” in the first sentence of the fourth paragraph of this Subsection of the Standard Specifications is hereby deleted.

The word “waterborne” in the first sentence of the second paragraph on page 445 of the Standard Specifications is hereby deleted.

The word “polyurea” in the first sentence of the twelfth paragraph on page 445 of the Standard Specifications is hereby deleted.

## SECTION 633 – PAVEMENT MARKERS

**633.03.03 Temporary Lane Line Marker Installation.** The third paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

The patterns and spacing for the temporary pavement markers shall be as follows:

1. For broken lines, place groups of 3 markers spaced longitudinally 600 mm (24 in.) apart at 12 m (40 ft) intervals. For Curves less than or equal to 10,000 ft. place groups of 2 markers spaced longitudinally 600 mm (24 in.) apart at 6 m (20 ft) intervals.

2. For double yellow lines, place 2 markers side by side with a 100 mm (4 in.) separation between markers at 3 m (10 ft) intervals.

3. For the centerline in a one way passing zones, alternate between placing 2 markers side by side with a 100 mm (4 in.) separation between markers and placing 1 marker at 3 m (10 ft) intervals. Offset the single marker to the no passing side of the roadway.

4. For edge lines, place markers at 6 m (20 ft) intervals.

## SECTION 636 - TEMPORARY PAINTED PAVEMENT MARKING

**636.02.01 General.** The second, third, and fourth paragraphs of this Subsection of the Standard Specifications are hereby deleted and the following substituted therefore:

Use waterborne traffic paint material for temporary striping.

**636.03.01 General.** The second sentence of the last paragraph on page 455 of the Standard Specifications is hereby deleted.

The last sentence of the fourth paragraph on page 456 of the Standard Specifications is hereby deleted.

## SECTION 637 – TEMPORARY POLLUTION CONTROL

This Section of the Standard Specifications is hereby deleted and the following substituted therefore:

### DESCRIPTION

**637.01.01 General.** This work consists of the construction, installation, maintenance, and removal of temporary pollution control Best Management Practices (BMPs) in accordance with National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP) requirements issued by the Nevada Division of Environmental Protection (NDEP) Bureau of Water Pollution Control (BWPC), and as directed. Unless noted otherwise, CGP shall refer to the NPDES CGP issued by NDEP BWPC. BMPs are intended to provide prevention, control, and abatement of water and air pollution to the maximum extent practicable from the first day of construction activities until relief of maintenance has been granted for the project.

Temporary pollution control and erosion control work shall conform to CGP requirements and NDOT's "Construction Site Best Management Practices (BMPs) Manual," hereinafter referred to as the Manual, and addenda thereto issued up to, and including, the date of advertisement of the contract. The Manual can be accessed

on the NDOT website. Adhere to the Manual’s minimum requirements for the selection and implementation of construction site BMPs. Know, understand, and fully comply with the provisions of the Manual, Federal, State, and local regulations governing stormwater and non-stormwater discharges from both the project site and areas of disturbance outside the project limits during construction.

For projects requiring procurement of a CGP for stormwater discharges, a Stormwater Pollution Prevention Plan (SWPPP) shall be developed and implemented. The Department furnished “Stormwater Pollution Prevention Plan (SWPPP) Template for Construction Activities,” Form 018-002SWPPP may be used to develop the SWPPP. The template form can be accessed on the NDOT website under the Environmental section - Stormwater Program or by request.

Refer to the Manual fact sheets for individual BMP requirements. BMPs requiring sizing or design criteria in accordance with the CGP or the Manual shall be designed by a Nevada Registered Civil Professional Engineer (PE), pursuant to NRS Chapter 625, and shall be included as an addendum to the SWPPP.

Refer to the NDEP BWPC website for a copy of the CGP and information pertaining to SWPPP development. Refer to the Environmental Protection Agency (EPA) Region 9 stormwater permitting website for a copy of the EPA CGP and information pertaining to SWPPP development.

The CGP includes and covers stormwater discharges from Department furnished material sources for general fill material, aggregate, and/or staging of a temporary asphalt or concrete batch plant operation dedicated solely to a specific contract. Install, inspect, and maintain temporary pollution control BMPs for these areas and include these areas in the SWPPP.

Be responsible for water quality monitoring of effluent for any Department furnished material sources where groundwater or accumulated stormwater will be discharged. Provide water quality monitoring results for the parameter in Table I a minimum of once per year for the duration of the project for each outfall associated with the dewatering discharge(s).

**TABLE I**

| Parameter | Effluent Limit | Sample Type |
|-----------|----------------|-------------|
| pH        | 6.0 – 9.0 S.U. | Grab        |

Submit water quality monitoring results within 24 hours from the time of sampling. Water quality monitoring results failing to meet the numeric effluent limitations in Table I shall be documented in an exceedance report. Water quality monitoring exceedance reports shall include the following:

1. Project name, project number and location and/or physical address;
2. Name of receiving water;
3. Monitoring data from the current and previous monitoring events, if applicable;
4. Explanation of the situation, including what actions have been completed or will be completed to correct the violation; and
5. Contact name, title, and phone number.

Submit water quality monitoring exceedance reports to the Department’s Stormwater Division Compliance and Enforcement Supervisor at (775) 888-7771 within 24 hours from the time of sampling.

The SWPPP document, including diagrams, maps, and calculations, shall be completed and implemented prior to commencement of earth disturbing activities. The official SWPPP shall remain on the project site or at an easily accessible location from the first day of erosion and sediment control installation activities until relief of maintenance has been granted for the project. A copy of the official SWPPP shall be made immediately available upon request to NDEP, EPA, NDOT, FHWA, or any other State, Tribal, or local agency with jurisdiction of stormwater discharges.

**637.01.02 Water Pollution Control Manager.** For projects requiring procurement of a CGP, designate a certified Water Pollution Control Manager (WPCM) who has successfully completed the “Water Pollution Control Manager” training class provided by the Associated General Contractors/Nevada Contractors Association. To register for this class, contact the Education and Training Director of the Associated General Contractors/Nevada Contractors Association Las Vegas. Submit a copy of the certificate demonstrating the WPCM’s successful

completion of the training class. The WPCM shall maintain current standing with the training from the date of contract award until relief of maintenance has been granted for the project. Failure to maintain current certification status may result in the ceasing of all operations not related to maintaining public safety until a WPCM with valid certification is assigned to the project. Working days will continue to be counted.

The WPCM shall be knowledgeable in the principles and practices of the installation and maintenance of erosion and sediment controls in accordance with the CGP, the Manual, and as identified in the current SWPPP. The WPCM shall be capable of identifying existing and predictable effects of the contractor's operations, and shall have complete authority to direct the contractor's personnel and equipment to implement the requirements described herein.

The WPCM shall be an employee under direct supervision of the Contractor, and shall be responsible for developing, implementing, and updating the SWPPP. The WPCM shall be responsible for updating the SWPPP in accordance with the requirements of the CGP.

The WPCM shall be responsible for stormwater inspections and ensuring the installation, maintenance, and removal of temporary pollution control BMPs comply with the requirements of the CGP and SWPPP. The WPCM shall serve as the primary contact for issues related to the SWPPP, permits, or their implementation and shall be available by phone 24 hours a day and shall be capable of being on-site within 24 hours of notification of a deficiency from the first day of activities until relief of maintenance has been granted for the project.

The WPCM shall be responsible for reporting all illicit discharges or illicit connections to the storm sewer system found within the project limits immediately upon discovery. Refer to the CGP and NDEP's Spill Prevention website, in-state hotline at (775) 687-9485, or out-of-state hotline at (888) 331-6337 for additional reporting requirements.

**637.01.03 Permits.** Not all projects require the permits discussed in this Subsection.

Prepare any applicable discharge permit applications, including any required modifications and amendments thereto, in accordance with Subsection 107.02.

Contact the Department's Stormwater Division at (775) 888-7771 a minimum of 7 days prior to submitting the Notice of Intent (NOI) to obtain coverage under a CGP. The Stormwater Division will provide documentation summarizing NOI requirements.

When submitting a NOI, reference the Department Engineer's name as the appropriate Owner (NDOT) contact, the appropriate District address, and reference NDOT's Contract Number in the Site Name of the NOI. Ensure billing information of the NOI reflects the Operator (Contractor) to receive the invoice for annual permit renewal.

Construction activities may require simultaneous coverage under the CGP and the EPA CGP.

File a separate NOI with NDEP and/or EPA to apply for coverage under the appropriate CGP for land and earth disturbance areas outside of NDOT right-of-way and not displayed on the plans. Contractor furnished material sources, staging areas, plant sites, turnaround areas, or any other contractor caused ground disturbance outside the right-of-way and not shown on the plans are the Contractor's responsibility and shall be submitted under a NOI package separate from the ground disturbance within right-of-way and shown on the plan sheet details. As these separate CGPs are the sole responsibility of the Contractor, NDOT shall not be listed as an Owner or Operator. Submit a copy of all separate signed NOI certification statements. The Department is not responsible for delays caused by incomplete or inaccurate submittals to NDEP and/or EPA by the Contractor.

Upon notice of award initiate the procurement of permits and submit a copy of executed permits procured prior to commencement of earth disturbance activities requiring permitting.

Regardless of the permitting authority requirements, photograph and submit electronic color photo documentation of existing vegetation and pre-construction site conditions of the entire project, including areas outside of NDOT right-of-way subject to earth disturbance, prior to commencement of earth disturbing activities. Photograph and submit electronic color photo documentation of post-construction site conditions for all lands disturbed by construction activities, including areas outside of NDOT right-of-way, with the relief of maintenance request. All electronic photo documentation shall be date/time stamped.

For project requiring procurement of a CGP, submit a request for relief of maintenance only after completion of an inspection of the sediment and erosion control measures conducted during the final inspection in accordance with Subsection 105.16. Include a copy of the Notice of Termination request or request to transfer full CGP responsibilities to the Department with the relief of maintenance request. When requesting to transfer full CGP

responsibilities to the Department, submit a copy of the final SWPPP documenting current field conditions with the relief of maintenance request. Adhere to all permit requirements until relief of maintenance has been granted for the project.

**637.01.04 Noxious Weed Management.** Develop and follow a Noxious Weed Management Plan to prevent the establishment and spread of Nevada State listed noxious weeds per NRS 555 (available at [http://agri.nv.gov/Plant/Noxious Weeds/Noxious Weeds Home/](http://agri.nv.gov/Plant/Noxious%20Weeds/Noxious%20Weeds%20Home/)).

Submit a copy of the Noxious Weed Management Plan for review and approval at the pre-construction conference.

The management plan shall include a physical survey of noxious weeds, mapping of existing noxious weed populations, appropriate eradication/control methods based on weed type, location, applicator certification, monitoring, and retreatment as necessary. Include methods for keeping equipment, personnel, staging areas, construction and excavation sites, and roadways clear of noxious weed plants and seeds. The plan shall also address the treatment of weeds in topsoil salvage material.

Equipment leaving noxious weed infested areas shall be cleaned prior to moving to areas free from noxious weeds. Equipment coming into or leaving the project area shall be cleaned and the cleaning area kept clear of plant material and contaminated dirt to prevent weed spread. The cleaning method shall be as approved.

### CONSTRUCTION

**637.03.01 General.** For projects requiring procurement of a CGP, furnish, install, and maintain in proper working condition a minimum of one rain gauge for every 10 miles or portion thereof within the project limits to determine the precipitation total for storm events. Install the rain gauges at a location within the project limits to be determined by the Contractor and approved by the Engineer. The WPCM shall inspect each rain gauge prior to anticipated storm events to verify the condition and ensure proper operation. The WPCM shall inspect each rain gauge and record rain gauge totals following each storm event. Following storm events, the WPCM shall perform construction site stormwater inspections in accordance with CGP requirements.

Installed rain gauges shall remain in place as permanent monitoring devices or be removed as directed.

Be responsible throughout the duration of the project for installing, constructing, inspecting, maintaining, replacing, removing, and disposing of the BMPs specified in the SWPPP, Temporary Working in Waterways Permits, and any other applicable permit. Installed BMPs shall perpetuate natural flow patterns and conveyances such that flooding or ponding is not caused inside or outside of the right-of-way or that may pose a hazard to motorists, pedestrians, or any other user.

For projects requiring procurement of a CGP and SWPPP development, perform a stormwater inspection of the construction site prior to the commencement of earth disturbing activities to ensure construction site BMPs are installed in accordance with the current SWPPP and adhere to the Manual’s minimum requirements for the selection and implementation of construction site BMPs.

For projects requiring procurement of a CGP, perform and document stormwater inspections in accordance with the CGP requirements and as directed. The Contractor and Engineer shall perform simultaneous stormwater inspections when directed by the Engineer.

Repairs and/or placement of temporary erosion and sediment control measures, or correction of any CGP deficiency identified during a stormwater inspection, shall be conducted in accordance with the CGP requirements.

If failure to comply with CGP requirements results in a violation where fines, penalties, and/or any other monetary impacts are incurred by the Department or Contractor, penalties will be assessed in the amount of the incurred fines, penalties, and/or monetary impacts resulting from the violation in accordance with Subsection 107.01. The Department will deduct the amount of said penalties from any monies due.

Failure to comply with the temporary pollution control requirements contained herein may be considered a stormwater deficiency. Stormwater deficiencies will be assessed demerits according to the following schedule.

| Stormwater Deficiency Category   | Demerits |
|--|----------|
| Failure to submit a copy of executed NOI documentation                           | 1        |
| Failure to make SWPPP easily accessible or make the SWPPP available upon request | 1        |
| Failure to properly submit the NOI to NDEP/EPA                                   | 1        |

|   |    |
|---|----|
| Failure to contact NDOT before submitting NOI for CGP coverage  | 5  |
| Failure to submit an active SWPPP document when requesting to transfer full CGP responsibilities to the Department                | 5  |
| Failure to install and maintain a rain gauge (if applicable)  | 5  |
| Failure to submit required pre- or post- construction photo documentation (included in SWPPP upon transferring to the Department) | 10 |
| Failure to perform a construction site stormwater inspection prior to the commencement of earth disturbing activities             | 10 |
| Failure to provide a WPCM with current certification status   | 20 |
| Failure to submit a copy of a separate NOI for areas outside of right-of-way  | 20 |
| Failure to obtain CGP Coverage  | 50 |

Pursuant to NRS 408.441 through 408.451, the Director may issue an order for compliance, commence a civil action, request the Attorney General to commence a criminal action, or seek injunctive relief.

Liquidated damages will be assessed for non-compliance with temporary pollution control requirements contained herein in accordance with Subsection 109.02. Failure to achieve and maintain compliance with temporary pollution control requirements may result in the ceasing of all operations not related to achieving compliance or maintaining public safety. Working days will continue to be counted and liquidated damages will be assessed during such cessation.

The Contractor is solely liable for any suspension of work and/or enforcement actions resulting from CGP violations. CGP non-compliance may result in termination of this Contract in accordance with Subsection 108.10.

Do not remove BMPs addressing stormwater discharge from areas subjected to earth disturbing activities until final stabilization per the CGP has been achieved or as directed. This may require BMPs be left in-place following the completion of construction activities. Properly maintain such BMPs, as specified in the Manual, and as directed, until relief of maintenance is granted for the project.

Land disturbance areas beyond those depicted in the contract documents resulting from Contractor construction activities shall undergo final stabilization at the Contractor's expense. These include, but are not limited to, staging areas, turnaround areas, employee parking areas, and areas of ingress and egress. Submit final stabilization plans for review and approval.

**637.03.02 Dust Control.** Develop, obtain, and pay for all State and local entity permits and fully comply with the terms specified therein. Furnish and apply water or chemical dust palliative for controlling dust on the areas designated and according to permit conditions. Use equipment and obtain water as specified in Subsection 107.21.

Control dust originating from traffic, plant, or construction operations either inside or outside the right of way at all times according to EPA, State, and local laws, ordinances, and regulations.

Consult the Manual fact sheets for appropriate dust palliative product selection. The use of dust palliatives containing cationic treatment chemicals is prohibited.

Mix and apply dust palliative as recommended by the manufacturer. Prepare the soil for application of dust palliative according to manufacturer instructions. Apply additional applications of dust palliative to control dust or as required by air quality regulating authorities.

Maintain all disturbed areas in a condition to prevent wind erosion and particulate emissions 24 hours a day, 7 days a week until the construction site is completely stabilized as shown on the plans and as required.

For contracts in Washoe or Clark Counties, provide a copy of the applicable Air Quality Management "Dust Control Permit" for construction activity prior to beginning work. Provide a copy of the final inspection and release from the applicable Air Quality Management "Dust Control Permit" upon completion of construction activities.

The geology in the project area may support erionite minerals (a fibrous mineral with similar health risk to asbestos). The applicable Air Quality Management "Dust Control Permit" for construction activity application requires the development of a Dust Control Mitigation Plan (DCMP). The fact that there may be erionite in soil and rock material in the area must be considered during the development and implementation of the DCMP and during health and safety planning. If, based on the scope of the project, no "Dust Control Permit" is required, the contractor is still required to prepare and follow a DCMP for this project. The DCMP must be designed to prevent visible dust due to project activities.

Immediate notification will be given in writing for failure to maintain adequate dust control and may result in immediate suspension of construction operations. If failing to remedy unsatisfactory dust control within 1 hour after receipt of such notice, the Engineer may immediately proceed to take necessary action to maintain dust control and the entire cost of this maintenance will be deducted from money due or to become due.

METHOD OF MEASUREMENT

**637.04.01 Measurement.** Temporary pollution control will be measured by the lump sum.

BASIS OF PAYMENT

**637.05.01 Payment.** The accepted quantities, measured as provided above, will be paid for at the contract price bid per unit of measurement for the pay items listed below that are shown in the proposal. Payment will be full compensation for the installation, ongoing maintenance, and removal of the work in accordance with stormwater requirements or as directed as prescribed in this Section.

Partial payments for temporary pollution control will be made as the work progresses. The Engineer will determine the reasonable payment percentage for each payment cycle. When requested, furnish invoices and receipts for actual costs. The amount paid on the next progress payment will be 50% of the amount determined.

A maximum amount of 5% of the contract amount will be paid for temporary pollution control during the progress of the work. Upon completion of all work on the project, payment of any amount bid for temporary pollution control in excess of 5% of the contract amount will be paid.

Payment will be made under:

| <b>Pay Item</b>                   | <b>Pay Unit</b> |
|-----------------------------------|-----------------|
| Temporary Pollution Control ..... | Lump Sum        |

**SECTION 701 – PORTLAND CEMENT**

**701.01.01 Materials Covered.** In the second sentence of this Subsection of the Standard Specifications, the words “or Type IL” are hereby added after “Type IP”.

**701.03.01 Requirements.** Type IL blended hydraulic cement shall conform to ASTM C595, except as follows:

- (a) Sulfate resistance shall be moderate (MS) or high (HS).
- (b) The cement used in the uniform blend shall meet the specification requirements outlined for Type II Portland cement.

**SECTION 702 – CONCRETE CURING MATERIALS AND ADMIXTURES**

**702.03.05 Pozzolans.** The first paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Pozzolanic admixtures shall be Class F or Class N conforming to ASTM C618, except the loss on ignition shall not exceed 5%.

**SECTION 703 - BITUMINOUS MATERIALS**

**703.03.02 Asphalt Cements.** The reference to “AASHTO T316” throughout this Subsection of the Standard Specifications is hereby deleted and “ASTM D4402” is substituted therefore.

The test procedure for solubility, AASHTO T44, is hereby amended to allow the use of n-propyl bromide.

**703.03.03 Cutback Asphalts.** The test procedure for solubility, AASHTO T44, is hereby amended to allow the use of n-propyl bromide.

**703.03.04 Emulsified Asphalts.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

The test procedure for solubility, AASHTO T44, is hereby amended to allow the use of n-propyl bromide.

When tolerances are expressed in terms of percent, the allowable deviation is calculated as the indicated percentage at the upper or lower specification limit, whichever is applicable.

Tests will be performed within 14 days from the date sampled.

Emulsions may be required to be diluted with water to the percentages of 70 and 30, 60 and 40, or 50 and 50 by mass. The values are specified as %Emulsion and %Added Water of the diluted mixture.

### CATIONIC EMULSIFIED ASPHALTS

| TEST   | TEST METHOD | Slow Setting |           | TOLERANCE |
|--|-------------|--------------|-----------|-----------|
|  |             | CSS-1        | CSS-1h    |           |
| <b>Tests on Emulsion:</b>                            |             |              |           |           |
| Viscosity, Rotational Paddle @ 25 °C (77 °F), mPa·s  | Nev. T762   | 45-220       | 45-220    | None      |
| Viscosity, Rotational Paddle @ 50 °C (122 °F), mPa·s | Nev. T762   | —            | —         | None      |
| Residue, %   | Nev. T759   | 57 Min.      | 57 Min.   | 1.0       |
| Storage Stability, 24 hr, %                          | Nev. T759   | 1 Max.       | 1 Max.    | 0.5       |
| Sieve, %   | Nev. T759   | 0.10 Max.    | 0.10 Max. | 0.03      |
| Cement Mixing, %                                     | Nev. T759   | 2.0 Max.     | 2.0 Max.  | 0.2       |
| Particle Charge                                      | Nev. T759   | Pass         | Pass      | None      |
| pH   | ASTM E70    | —            | —         | None      |
| Oil Distillate, % by volume                          | Nev. T759   | —            | —         | None      |
| <b>Tests on Residue from Evaporation:</b>            |             |              |           |           |
| Penetration @ 25 °C (77 °F), 100 g, 5 sec            | Nev. T759   | 100-250      | 40-90     | 7.0%      |
| Solubility, %  | AASHTO T44  | 97.5 Min.    | 97.5 Min. | 0.10      |
| Ductility @ 25 °C (77 °F), 5 cm/min, cm              | AASHTO T51  | 40 Min.      | 40 Min.   | 10%       |
| <b>Tests on Diluted Emulsion:</b>                    |             |              |           |           |
| Residue, %, 70% and 30%                              | Nev. T759   | 40 Min.      | 40 Min.   | 1.0       |
| Residue, %, 60% and 40%                              | Nev. T759   | 34 Min.      | 34 Min.   | 1.0       |
| Residue, %, 50% and 50%                              | Nev. T759   | 29 Min.      | 29 Min.   | 1.0       |

### CATIONIC EMULSIFIED ASPHALTS

| TEST   | TEST METHOD | Medium Setting | TOLERANCE |
|--|-------------|----------------|-----------|
|  |             | CMS-2s         |           |
| <b>Tests on Emulsion:</b>                            |             |                |           |
| Viscosity, Rotational Paddle @ 25 °C (77 °F), mPa·s  | Nev. T762   | —              | None      |
| Viscosity, Rotational Paddle @ 50 °C (122 °F), mPa·s | Nev. T762   | 110-1020       | None      |
| Residue, %   | Nev. T759   | 60 Min.        | 1.0       |
| Storage Stability, 24 hr, %                          | Nev. T759   | 1 Max.         | 0.5       |
| Sieve, %   | Nev. T759   | 0.10 Max.      | 0.03      |
| Cement Mixing, %                                     | Nev. T759   | —              | 0.2       |
| Particle Charge                                      | Nev. T759   | —              | None      |
| pH   | ASTM E70    | 2.0-5.0        | None      |
| Oil Distillate, % by volume                          | Nev. T759   | 5.0-15.0       | None      |
| <b>Tests on Residue from Distillation:</b>           |             |                |           |
| Penetration @ 25 °C (77 °F), 100 g, 5 sec            | Nev. T759   | 100-250        | 7.0%      |
| Solubility, %  | AASHTO T44  | 97.5 Min.      | 0.10      |
| Ductility @ 25 °C (77 °F), 5 cm/min, cm              | AASHTO T51  | —              | 10%       |
| <b>Tests on Diluted Emulsion:</b>                    |             |                |           |
| Residue, %, 70% and 30%                              | Nev. T759   | —              | 1.0       |
| Residue, %, 60% and 40%                              | Nev. T759   | —              | 1.0       |
| Residue, %, 50% and 50%                              | Nev. T759   | 30 Min.        | 1.0       |

## CATIONIC EMULSIFIED ASPHALTS

| TEST   | TEST METHOD | Rapid Setting | Quick Setting |           | TOLERANCE |
|--|-------------|---------------|---------------|-----------|-----------|
|  |             | CRS-2nv       | CQS-1nv       | CQS-1h    |           |
| <b>Tests on Emulsion:</b>                            |             |               |               |           |           |
| Viscosity, Rotational Paddle @ 25 °C (77 °F), mPa·s  | Nev. T762   | —             | 45-220        | 45-220    | None      |
| Viscosity, Rotational Paddle @ 50 °C (122 °F), mPa·s | Nev. T762   | 425-1200      | —             | —         | None      |
| Residue, %   | Nev. T759   | 65 Min.       | 57 Min.       | 57 Min.   | 1.0       |
| Storage Stability, 24 hr, %                          | Nev. T759   | 1 Max.        | —             | —         | 0.5       |
| Demulsibility, %                                     | Nev. T759   | 40 Min.       | —             | —         | 5%        |
| Sieve, %   | Nev. T759   | 0.10 Max.     | 0.10 Max.     | 0.10 Max. | 0.03      |
| Cement Mixing, %                                     | Nev. T759   | —             | 25 Min. (a)   | —         | None      |
| Particle Charge                                      | Nev. T759   | Pass          | Pass          | Pass      | None      |
| Oil Distillate, % by volume                          | Nev. T759   | 3 Max.        | —             | —         | None      |
| <b>Tests on Residue from Evaporation:</b>            |             |               |               |           |           |
| Penetration @ 25 °C (77 °F), 100 g, 5 sec            | Nev. T759   | 60-100        | 40-90         | 40-90     | 7.0%      |
| Solubility, %  | AASHTO T44  | 97.5 Min.     | 97.5 Min.     | 97.5 Min. | 0.10      |
| Ductility @ 25 °C (77 °F), 5 cm/min, cm              | AASHTO T51  | 40 Min.       | 40 Min.       | 40 Min.   | 10%       |
| <b>Tests on Diluted Emulsion:</b>                    |             |               |               |           |           |
| Residue, %, 70% and 30%                              | Nev. T759   | —             | 40 Min.       | 40 Min.   | 1.0       |
| Residue, %, 60% and 40%                              | Nev. T759   | —             | 34 Min.       | 34 Min.   | 1.0       |
| Residue, %, 50% and 50%                              | Nev. T759   | —             | 29 Min.       | 29 Min.   | 1.0       |

- (a) If the amount of breakage is significant enough to impede the flow of water through the testing screen, thus making it impossible to calculate a result, the test will be considered passing.

Cationic emulsified asphalts not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST                                      | INCREMENT  | DEMERITS |
|---|--|----------|
| Viscosity, CSS-1, CSS-1h, CQS-1nv, CQS-1h | 4.5 mPa·s above maximum or below minimum to 30 mPa·s | 1        |
| Viscosity, CSS-1, CSS-1h, CQS-1nv, CQS-1h | Below 30 mPa·s                                       | 10       |
| Viscosity, CRS-2nv                        | 5 mPa·s above maximum or below minimum               | 1        |
| Viscosity, CMS-2s                         | 4.5 mPa·s above maximum or below minimum to 30 mPa·s | 1        |
| Viscosity, CMS-2s                         | Below 30 mPa·s                                       | 21       |
| Residue, %                                | 1 % below minimum                                    | 2        |
| Demulsibility, %                          | 1 % below minimum                                    | 2        |
| Sieve, %                                  | 0.1 % above maximum                                  | 1        |
| Cement Mixing, %, CSS-1, CSS-1h           | 0.5 % above maximum                                  | 1        |
| Cement Mixing, %, CQS-1nv                 | Below minimum  | 21       |
| Particle Charge                           | Fail   | 21       |
| Oil Distillate, %                         | 0.25 % above maximum or below minimum                | 2        |
| Penetration                               | 0.1 mm above maximum or below minimum                | 1        |
| Solubility, %                             | 0.01 % below minimum                                 | 1        |

## ANIONIC EMULSIFIED ASPHALTS

| TEST  | TEST METHOD | SLOW SETTING |           | TOLERANCE |
|---|-------------|--------------|-----------|-----------|
|   |             | SS-1         | SS-1h     |           |
| <b>Tests on Emulsion:</b>                           |             |              |           |           |
| Viscosity, Rotational Paddle @ 25 °C (77 °F), mPa·s | Nev. T762   | 45-220       | 45-220    | None      |
| Residue, %  | Nev. T759   | 57 Min.      | 57 Min.   | 1.0       |
| Storage Stability, 24 hr, %                         | Nev. T759   | 1 Max.       | 1 Max.    | 0.5       |
| Sieve, %  | Nev. T759   | 0.10 Max.    | 0.10 Max. | 0.03      |
| Cement Mixing, %                                    | Nev. T759   | 2.0 Max.     | 2.0 Max.  | 0.2       |
| <b>Tests on Residue from Distillation:</b>          |             |              |           |           |
| Penetration @ 25 °C (77 °F), 100 g, 5 sec           | Nev. T759   | 100-200      | 40-90     | 7.0%      |
| Solubility, %                                       | AASHTO T44  | 97.5 Min.    | 97.5 Min. | 0.10      |

|   |            |         |         |     |
|---|------------|---------|---------|-----|
| Ductility @ 25 °C (77 °F), 5 cm/min, cm | AASHTO T51 | 40 Min. | 40 Min. | 10% |
| <b>Tests on Diluted Emulsion:</b>       |            |         |         |     |
| Residue, %, 70% and 30%                 | Nev. T759  | 40 Min. | 40 Min. | 1.0 |
| Residue, %, 60% and 40%                 | Nev. T759  | 34 Min. | 34 Min. | 1.0 |
| Residue, %, 50% and 50%                 | Nev. T759  | 29 Min. | 29 Min. | 1.0 |

Anionic emulsified asphalts not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST             | INCREMENT  | DEMERITS |
|------------------|--|----------|
| Viscosity        | 4.5 mPa·s above maximum or below minimum to 30 mPa·s | 1        |
| Viscosity        | Below 30 mPa·s                                       | 10       |
| Residue, %       | 1 % below minimum                                    | 2        |
| Sieve, %         | 0.1 % above maximum                                  | 1        |
| Cement Mixing, % | 0.5 % above maximum                                  | 1        |
| Penetration      | 0.1 mm above maximum or below minimum                | 1        |
| Solubility, %    | 0.01 % below minimum                                 | 1        |

### LATEX MODIFIED RAPID SETTING EMULSIFIED ASPHALT

| TEST   | TEST METHOD | LMCRS-2h  | TOLERANCE |
|--|-------------|-----------|-----------|
| <b>Tests on Emulsion:</b>                            |             |           |           |
| Viscosity, Rotational Paddle @ 50 °C (122 °F), mPa·s | Nev. T762   | 425-1200  | None      |
| Residue, %   | Nev. T759   | 65 Min.   | 1.0       |
| Storage Stability, 24 hr, %                          | Nev. T759   | 1 Max.    | 0.5       |
| Demulsibility, %                                     | Nev. T759   | 40 Min.   | 5%        |
| Sieve, %   | Nev. T759   | 0.30 Max. | 0.03      |
| Particle Charge                                      | Nev. T759   | Pass      | None      |
| <b>Tests on Residue from Evaporation:</b>            |             |           |           |
| Penetration @ 25 °C (77 °F), 100 g, 5 sec            | Nev. T759   | 40-90     | 7%        |
| Torsional Recovery, %                                | Nev. T757   | 22 Min.   | None      |
| Ductility @ 25 °C (77 °F), 5 cm/min, cm              | AASHTO T51  | 40 Min.   | 10%       |

Latex modified emulsified asphalt not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST                  | INCREMENT                              | DEMERITS |
|-----------------------|--|----------|
| Viscosity             | 5 mPa·s above maximum or below minimum | 1        |
| Residue, %            | 1% below minimum                       | 2        |
| Demulsibility, %      | 1% below minimum                       | 2        |
| Sieve, %              | 0.1% above maximum                     | 1        |
| Particle Charge       | Fail                                   | 21       |
| Penetration           | 0.1 mm above maximum or below minimum  | 1        |
| Torsional Recovery, % | 1% below minimum                       | 1        |

### POLYMER MODIFIED PAVEMENT SEALANT

| TEST   | TEST METHOD | PMPS-h   | TOLERANCE |
|--|-------------|----------|-----------|
| <b>Tests on Emulsions:</b>                           |             |          |           |
| Viscosity, Rotational Paddle @ 50 °C (122 °F), mPa·s | Nev. T762   | 425-1200 | None      |
| Residue, %   | Nev. T759   | 65 Min.  | 1.0       |
| pH   | ASTM E70    | 4.0 Max. | None      |
| Sieve, %   | Nev. T759   | 0.1 Max. | 0.03      |
| Oil Distillate, % (a)                                | Nev. T759   | 0.5 Max. | None      |
| <b>Tests on Residue from Evaporation:</b>            |             |          |           |
| Penetration @ 4 °C (39.2 °F), 200 g, 60 sec          | Nev. T759   | 20-70    | 7.0%      |
| Elastic Recovery @ 25 °C (77 °F), %                  | AASHTO T301 | 60 Min.  | None      |

| <b>Tests on Latex:</b>   |             |                      |              |
|--|-------------|----------------------|--------------|
| Specific Gravity   | ASTM D1475  | 1.08-1.15            | None         |
| Tensile Strength, die C dumbbell, psi (b)                                | ASTM D412   | 500 Min.             | None         |
| Change in mass in rejuvenating agent, %, 48 hour exposure @ 40°C (104°F) | Nev. T747   | 40% Max. intact film | None         |
| <b>Tests on Rejuvenator:</b>   |             |                      |              |
| Kinematic Viscosity @ 60 °C, mm <sup>2</sup> /s (140 °F, cSt)            | AASHTO T201 | 50-175 (50-175)      | 2%           |
| Flash Point, °C (°F)   | AASHTO T48  | 193 Min. (380 Min.)  | 8 °C (15 °F) |
| Saturate, %  | ASTM D2007  | 30 Max.              | None         |
| Asphaltenes, %   | ASTM D2007  | 1.0 Max.             | None         |
| Weight Change, %   | AASHTO T240 | 6.5 Max.             | None         |
| Viscosity Ratio  | AASHTO T240 | 3.0 Max.             | None         |

- (a) Reduce the temperature on the lower thermometer to 177 ± 5 °C (350 ± 10 °F) and maintain this temperature for 20 minutes.  
(b) Samples for tensile strength in accordance with ASTM D412 shall be cut using a die dumbbell at a crosshead speed of 20 cm/min.

Polymer modified pavement sealant not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST                | INCREMENT                              | DEMERITS |
|---------------------|--|----------|
| Viscosity           | 5 mPa·s above maximum or below minimum | 1        |
| Residue, %          | 1% below minimum                       | 2        |
| Sieve, %            | 0.1 above maximum                      | 1        |
| Oil Distillate, %   | 0.25% above maximum                    | 2        |
| Penetration         | 0.1 mm above maximum or below minimum  | 1        |
| Elastic Recovery, % | 1% below minimum                       | 1        |

### POLYMER MODIFIED REJUVENATING EMULSION

| TEST  | TEST METHOD | PMRE-h               | TOLERANCE    |
|---|-------------|----------------------|--------------|
| <b>Tests on Emulsion:</b>                                     |             |                      |              |
| Viscosity, Rotational Paddle @ 50°C (122°F), mPa·s            | Nev. T762   | 425-1200             | None         |
| Residue, %  | Nev. T759   | 65 Min.              | 1.0          |
| pH  | ASTM E70    | 4.0 Max.             | None         |
| Sieve, %  | Nev. T759   | 0.1 Max.             | 0.03         |
| Oil Distillate, % (a)   | Nev. T759   | 0.5 Max.             | None         |
| <b>Tests on Residue from Evaporation:</b>                     |             |                      |              |
| Penetration @ 25 °C (77 °F), 100 g, 5 sec                     | Nev. T759   | 70-120               | 7.0%         |
| Torsional Recovery, %   | Nev. T757   | 30 Min.              | None         |
| Softening Point, °C (°F)                                      | AASHTO T53  | 54.5 Min. (130 Min.) | 1 °C (2 °F)  |
| <b>Tests on Rejuvenator:</b>                                  |             |                      |              |
| Kinematic Viscosity @ 60 °C, mm <sup>2</sup> /s (140 °F, cSt) | AASHTO T201 | 50-175 (50-175)      | 2%           |
| Flash Point, °C (°F)  | AASHTO T48  | 193 Min. (380 Min.)  | 8 °C (15 °F) |
| Saturate, %   | ASTM D2007  | 30 Max.              | None         |
| Asphaltenes, %  | ASTM D2007  | 1.0 Max.             | None         |
| Weight Change, %  | AASHTO T240 | 6.5 Max.             | None         |
| Viscosity Ratio   | AASHTO T240 | 3.0 Max.             | None         |

- (a) Reduce the temperature on the lower thermometer to 177 ± 5°C (350 ± 10°F) and maintain this temperature for 20 minutes.

Polymer modified rejuvenating emulsion not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST       | INCREMENT                              | DEMERITS |
|------------|--|----------|
| Viscosity  | 5 mPa·s above maximum or below minimum | 1        |
| Residue, % | 1% below minimum                       | 2        |

|                       |                                       |   |
|-----------------------|---------------------------------------|---|
| Sieve, %              | 0.1 above maximum                     | 1 |
| Oil Distillate, %     | 0.25% above maximum                   | 2 |
| Penetration           | 0.1 mm above maximum or below minimum | 1 |
| Torsional Recovery, % | 1% below minimum                      | 1 |
| Softening Point       | 0.5°C (1°F) below minimum             | 1 |

### CQS-TRnv EMULSIFIED ASPHALT

| TEST  | TEST METHOD | CQS-TRnv      | TOLERANCE |
|---|-------------|---------------|-----------|
| <b>Tests on Emulsion:</b>                         |             |               |           |
| Viscosity, Rotational Paddle @ 25°C (77°F), mPa·s | Nev. T762   | 45-220        | None      |
| Residue, % by mass                                | Nev. T759   | 57 Min.       | 1.0       |
| Sieve, %  | Nev. T759   | 0.10 Max.     | 0.03      |
| Particle Charge                                   | Nev. T759   | Pass          | None      |
| Cement Mixing, %                                  | Nev. T759   | 25.0 Min. (a) | None      |
| Rubber Content, % by mass of residual asphalt     | (b)         | 5.0 Min.      | None      |
| <b>Tests on Residue from Evaporation:</b>         |             |               |           |
| Penetration, 25°C (77°F), 100g, 5 sec             | Nev. T759   | 40-90         | 7%        |
| Ductility, 25°C (77°F), 5 cm/min, cm              | AASHTO T51  | 40 Min.       | 10%       |
| Solubility, %                                     | AASHTO T44  | 97.5 Min.     | 0.10      |
| <b>Tests on Diluted Emulsion:</b>                 |             |               |           |
| Residue, % by mass, 70:30                         | Nev. T759   | 40 Min.       | 1.0       |
| Residue, % by mass, 60:40                         | Nev. T759   | 34 Min.       | 1.0       |
| Residue, % by mass, 50:50                         | Nev. T759   | 29 Min.       | 1.0       |

- (a) If the amount of breakage is significant enough to impede the flow of water through the testing screen, thus making it impossible to calculate a result, the test will be considered passing.
- (b) Certificates of compliance provided for the material shall certify that the minimum rubber content is present.

CQS-TRnv emulsified asphalt not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST            | INCREMENT  | DEMERITS |
|-----------------|--|----------|
| Viscosity       | 4.5 mPa·s above maximum or below minimum to 30 mPa·s | 1        |
| Viscosity       | Below 30 mPa·s                                       | 10       |
| Residue         | 1% below minimum                                     | 2        |
| Sieve           | 0.1% above maximum                                   | 1        |
| Cement Mixing   | Below 25.0%  | 21       |
| Particle Charge | Fail   | 21       |
| Penetration     | 0.1 mm above maximum or below minimum                | 1        |
| Solubility      | 0.01% below minimum                                  | 1        |

### QUICK SETTING AND QUICK SETTING REJUVENATING EMULSIONS

| TEST  | TEST METHOD | QSE       | QSRE      | TOLERANCE |
|---|-------------|-----------|-----------|-----------|
| <b>Tests on Emulsion:</b>                         |             |           |           |           |
| Viscosity, Rotational Paddle @ 25°C (77°F), mPa·s | Nev. T762   | 65-330    | 65-330    | None      |
| Residue, %  | Nev. T759   | 65 Min.   | 65 Min.   | 1.0       |
| Sieve, %  | Nev. T759   | 0.10 Max. | 0.10 Max. | 0.03      |
| pH  | ASTM E70    | 4.0 Max.  | 4.0 Max.  | None      |
| Storage Stability, 24-h, %                        | Nev. T759   | 1.0 Max.  | —         | 0.5       |
| Oil Distillate, %                                 | Nev. T759   | 0.5 Max   | 0.5 Max   | None      |
| <b>Tests on Diluted Emulsion:</b>                 |             |           |           |           |
| Residue, %, 60% and 40%                           | Nev. T759   | 39 Min.   | 39 Min.   | 1.0       |
| Residue, %, 50% and 50%                           | Nev. T759   | 33 Min.   | 33 Min.   | 1.0       |
| <b>Tests on Residue from Evaporation:</b>         |             |           |           |           |

|  |             |                       |                         |               |
|--|-------------|-----------------------|-------------------------|---------------|
| Penetration @ 25°C (77°F), 100 g, 5 sec                          | Nev. T759   | 40 Max.               | 45 Max.                 | 7.0 %         |
| Softening Point, °C (°F)   | AASHTO T53  | 57 Min.<br>(135 Min.) | 54.5 Min.<br>(130 Min.) | 1°C<br>(2°F)  |
| Asphaltenes, %   | ASTM D2007  | 24 Min.               | 24 Min.                 | None          |
| <b>Tests on Rejuvenating Agent:</b>                              |             |                       |                         |               |
| Kinematic Viscosity @ 60 °C, mm <sup>2</sup> /s<br>(140 °F, cSt) | AASHTO T201 | —                     | 50-175<br>(50-175)      | 2%            |
| Flash Point, °C (°F)   | AASHTO T48  | —                     | 193 Min.<br>(380 Min.)  | 8°C<br>(15°F) |
| Saturate, %  | ASTM D2007  | —                     | 30 Max.                 | None          |
| Asphaltenes, %   | ASTM D2007  | —                     | 1.0 Max.                | None          |
| Weight Change, %   | AASHTO T240 | —                     | 6.5 Max.                | None          |
| Viscosity Ratio  | AASHTO T240 | —                     | 3.0 Max.                | None          |

QSE and QSRE emulsions not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST              | INCREMENT  | DEMERITS |
|-------------------|--|----------|
| Viscosity         | 4.5 mPa·s above maximum or below minimum to 30 mPa·s | 1        |
| Viscosity         | Below 30 mPa·s                                       | 10       |
| Residue, %        | 1% below minimum                                     | 2        |
| Sieve, %          | 0.1% above maximum                                   | 1        |
| Oil Distillate, % | 0.25% above maximum                                  | 2        |
| Penetration       | 0.1 mm above maximum                                 | 1        |
| Softening Point   | 0.5°C (1°F) below minimum                            | 1        |

#### PMCQS-1nv EMULSIFIED ASPHALT

| TEST  | TEST METHOD | PMCQS-1nv     | TOLERANCE |
|---|-------------|---------------|-----------|
| <b>Tests on Emulsion:</b>                         |             |               |           |
| Viscosity, Rotational Paddle @ 25°C (77°F), mPa·s | Nev. T762   | 45-220        | None      |
| Residue, % by mass                                | Nev. T759   | 64 Min.       | 1.0       |
| Storage Stability, 24-hour, %                     | Nev. T759   | 1 Max.        | 0.5       |
| Sieve, %  | Nev. T759   | 0.30 Max.     | 0.03      |
| Particle Charge                                   | Nev. T759   | Pass          | None      |
| Polymer Content, % by mass of residual asphalt    | (a)         | 3.0 Min.      | None      |
| <b>Tests on Residue from Evaporation:</b>         |             |               |           |
| Penetration, 25°C (77°F), 100g, 5 sec             | Nev. T759   | 40-90         | 7%        |
| Softening Point, °C (°F)                          | AASHTO T53  | 60 (140) Min. | None      |
| Torsional Recovery, %                             | Nev. T757   | 22 Min.       | None      |
| Ductility, 25°C (77°F), 5 cm/min, cm              | AASHTO T51  | 40 Min.       | 10%       |

(a) Certificates of compliance provided for the material shall certify that the minimum polymer content is present.

PMCQS-1nv emulsified asphalt not conforming to the requirements specified herein will be assessed demerits according to the following schedule.

| TEST               | INCREMENT  | DEMERITS |
|--------------------|--|----------|
| Viscosity          | 4.5 mPa·s above maximum or below minimum to 30 mPa·s | 1        |
| Viscosity          | Below 30 mPa·s                                       | 10       |
| Residue            | 1% below minimum                                     | 4        |
| Sieve              | 0.1% above maximum                                   | 1        |
| Particle Charge    | Fail   | 21       |
| Penetration        | 0.1 mm above maximum or below minimum                | 1        |
| Softening Point    | 0.5°C (1°F) below minimum                            | 2        |
| Torsional Recovery | 1% below minimum                                     | 2        |

**SECTION 704 – BASE AGGREGATES**

**704.03.02 Type 1 Class A Aggregate Base.** Add the following line to the gradation specification:

| Sieve Size            | Percent Passing by Mass |
|-----------------------|-------------------------|
| 19 mm (3/4 in.) ..... | 70-95                   |

**704.03.03 Type 1 Class B Aggregate Base.** Add the following line to the gradation specification:

| Sieve Size            | Percent Passing by Mass |
|-----------------------|-------------------------|
| 19 mm (3/4 in.) ..... | 70-95                   |

**704.03.11 Granular Backfill.** In the first paragraph of this Subsection of the Standard Specifications the requirement for **Percent Passing by Mass** for **Sieve Size** 600 µm (No. 30) of “20–100” is hereby deleted and “10–100” substituted therefore.

**SECTION 706 – AGGREGATES FOR PORTLAND CEMENT PRODUCTS**

**706.03.01 Coarse Aggregate.** The fifth row of the second table on page 532 of the Standard Specifications is hereby deleted and the following added to the third table on page 532:

|            |             |           |
|------------|-------------|-----------|
| Clay Lumps | AASHTO T112 | 0.3% Max. |
|------------|-------------|-----------|

**706.03.02 Lightweight Aggregate.** The third row of the second table on page 533 of the Standard Specifications is hereby deleted and the following added to the third table on page 533:

|            |             |         |
|------------|-------------|---------|
| Clay Lumps | AASHTO T112 | 2% Max. |
|------------|-------------|---------|

**706.03.03 Fine Aggregate.** The fourth row of the first table on page 534 of the Standard Specifications is hereby deleted and the following added to the second table on page 534:

|            |             |         |
|------------|-------------|---------|
| Clay Lumps | AASHTO T112 | 1% Max. |
|------------|-------------|---------|

**SECTION 722 - WATER**

**722.02.02 Sampling.** Submit a 1 quart sample, of each proposed source, for testing a minimum of 15 working days before the start of cold recycle or micro-surfacing operations. Obtain and ship in clean plastic containers that are carefully packed and labeled.

**722.03.01 Concrete Use.** This Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

Water shall be clean, clear, and potable. As an alternative to potable water, submit certified test results demonstrating the water meets the requirements of ASTM C1602, including Table 2.

**SECTION 732 – PAVEMENT MARKING FILM**

**732.03.04 Thermoplastic.** The first sentence of paragraph 14 of subparagraph (b) on page 602 of the Standard Specifications is hereby deleted and the following substituted therefore:

The preformed thermoplastic marking materials, for use as transverse or longitudinal markings as well as legends, arrows, and symbols shall be available in rolls or sheets.

**SECTION 730 - TRAFFIC BEADS**

**730.02.01 Requirements.** Provide certified independent laboratory test results verifying the glass used for beads or reflective elements does not contain heavy metals in excess of 200 parts per million of arsenic or lead, determined in accordance with Environmental Protection Agency testing methods 3052, 6010B, or 6010C. Provide test results for every 50,000 pounds of beads or elements, or portion thereof. Provide a unique numbering system to identify each batch of beads and the related test results. Submit test results with each load of beads that are delivered.

The words "Type I" are hereby added to the beginning of the first sentence of the seventh paragraph of this Subsection of the Standard Specifications.

The words "Type II" are hereby added to the beginning of the first sentence of the eighth paragraph of this Subsection of the Standard Specifications.

The last two paragraphs on page 595 of the Standard Specifications are hereby deleted and the following substituted therefore:

(b) Glass Beads for Waterborne Paint. The glass beads shall be colorless, clean, transparent, and free of milkiness, excessive air bubbles, surface scarring, and scratching. The beads shall be spherical in shape and at least 80% shall be true spheres when tested according to ASTM D1155, Procedure A or Microfiche Reader method.

In the sixth paragraph on page 596 of the Standard Specifications, add the following to the bottom of the gradation requirement:

Pan ..... 0-2

**SECTION 732 – PAVEMENT MARKING FILM**

**732.03.04 Thermoplastic.** The first sentence of paragraph 14 of subparagraph (b) on page 602 of the Standard Specifications is hereby deleted and the following substituted therefore:

The preformed thermoplastic marking materials, for use as transverse or longitudinal markings as well as legends, arrows, and symbols shall be available in rolls or sheets.

**NEVADA DEPARTMENT OF TRANSPORTATION**  
**SUPPLEMENTAL NOTICE TO CONTRACTORS NO. 1**

**Contract 3930**

Reference is made to Project SPSR-0659(004), on SR 659, McCarran Blvd., in Washoe County, upon which bids will be received until 1:30 p.m., PDT, on the 7<sup>th</sup> day of July 2022, and opened publicly on that date at the above hour.

Prospective bidders are hereby directed to remove and destroy plan sheet SD1 and replace it with the attached same numbered sheet with Revision 1 dated 6/28/2022. The following is a brief explanation of the changes:

**Sheet SD1.** Corrected Note – Green Paint to Be Paid for as Epoxy Pavement Striping (Varies)

KRISTINA SWALLOW, P.E., DIRECTOR  
Nevada Department of Transportation  
1263 South Stewart Street  
Carson City, Nevada 89712

THE END

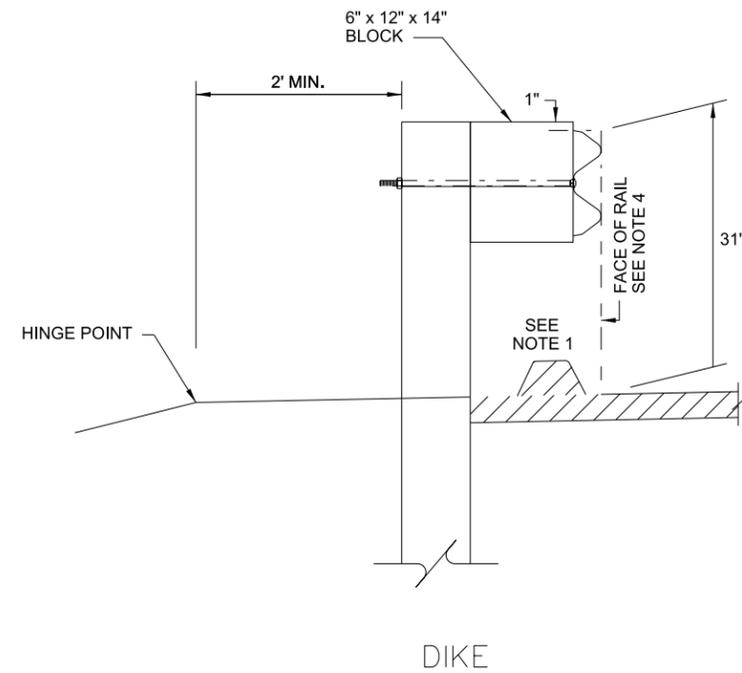
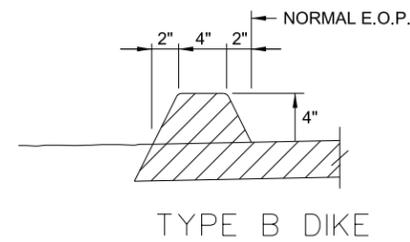
|        |                |        |           |
|--------|----------------|--------|-----------|
| STATE  | PROJECT NO.    | COUNTY | SHEET NO. |
| NEVADA | SPSR-0659(004) | WASHOE | SD1       |

- LEGEND -

-  - CLASS AA CONCRETE
-  - PLANTMIX BITUMINOUS, DENSE-GRADE

NOTES:

1. When dike or curb is placed under Midwest Guardrail System, the maximum height of the dike or curb shall be 6-inches. Mountable dike or curb should not be used.
2. Fill and compact with shouldering material to top back of curb as directed by the Engineer.
3. 12-inch blockouts must be used for these applications. 8-inch blockouts are not allowed.
4. Dike or curb must be kept behind the face of rail.

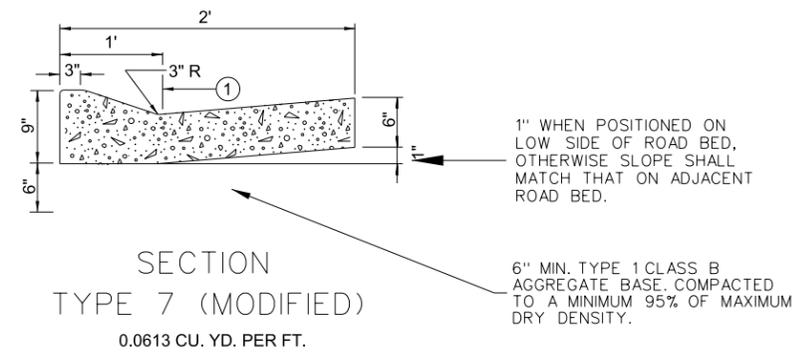


NOTES:

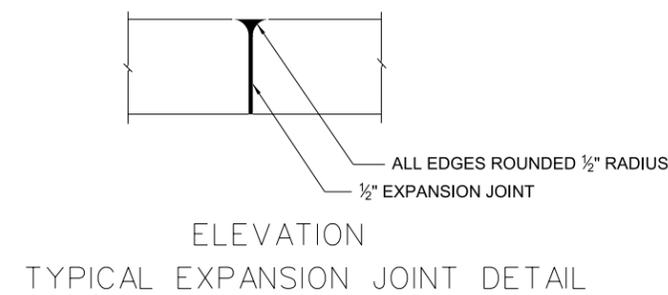
1. When distance between back of curb on islands is 4-feet or less, use 4-inches of class A or AA concrete island paving and 2-inches of aggregate base.
2. Concrete shall be class A or AA.
3. Concrete unit volume for information only.

LEGEND:

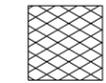
① - THIS LINE SHOULD BE USED TO DIMENSION OFFSETS



| BID ITEM | UNIT | DESCRIPTION              | QUANTITY |
|----------|------|--------------------------|----------|
| 3020140  | CUYD | TYPE 1 CLASS B AGG. BASE | 15.0     |



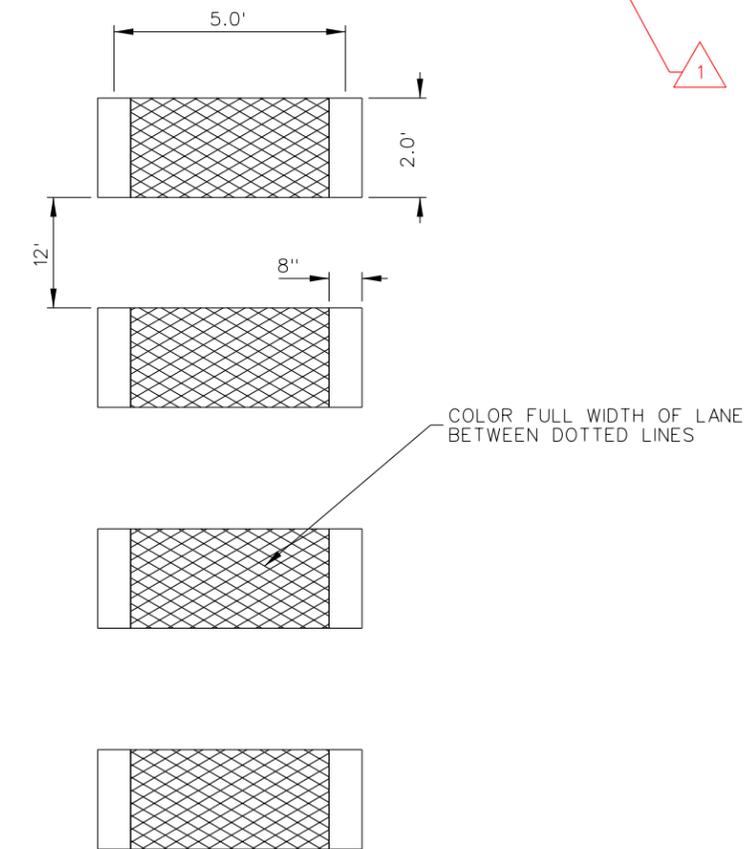
- LEGEND -

-  - GREEN PAINT

NOTES:

- GREEN COLORING MEETING THE CHROMATICITY COORDINATED IN THE FHWA MEMO, "INTERIM APPROVAL FOR OPTIONAL USE OF GREEN COLORED PAVEMENT FOR BIKE LANES".

- GREEN PAINT TO BE PAID FOR AS EPOXY PAVEMENT STRIPING (VARIES).



8" DOTTED WHITE BIKE LINE (BIKE CONFLICT ZONE)

STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

SR 659  
SPECIAL DETAILS

# Transportation Management Plan

**SR-659 McCarran Blvd.,  
Washoe County  
Milepost 17.05 to 17.90**

## Mill and Fill



**May 2022**



**Nevada Department of Transportation  
1263 S. Stewart Street  
Carson City, Nevada 89712**

Prepared By: Dante Sanguineti, P.E.

## Executive Summary

---

This project consists of mill and fill along SR-659 , McCarran Blvd. This route is a principal arterial with three 12-foot lanes per direction, 1-3 feet interior shoulders, and 8-foot typical bike lanes on the exterior shoulders for both directions. The posted speed limit is 45 mph throughout the project area. The heavy truck percentage is 1.8% for the roadway.

This Transportation Management Plan (TMP) will describe the transportation management strategies developed throughout the course of this project. The strategies developed include the Maintenance of Traffic Plan and the Transportation Operations Plan.

## TMP Roles and Responsibilities

---

### TMP Coordinator

The Nevada Department of Transportation's (NDOT) Project Coordinator for this project is Allisa Root. Dante Sanguinetti will serve as the Transportation Management Plan (TMP) Project Manager and is responsible for the overall development of the TMP.

Allisa Root  
Office: (775) 888-7859  
[aroot@dot.nv.gov](mailto:aroot@dot.nv.gov)

Dante Sanguinetti  
Office: (775) 888-7817  
[dsanguinetti@dot.nv.gov](mailto:dsanguinetti@dot.nv.gov)

### TMP Team

The TMP Team is comprised of the individuals who have been involved in the development and review of the TMP. The TMP team consisted of Allisa Root (Maintenance and Asset Management), Dante Sanguinetti (Maintenance and Asset Management), Ryan Hornback (Resident Engineer), Mike West (Constructability), Craig Hutton (Constructability) and Jeff Bickett (Traffic Operations).

### TMP Implementation Task Leaders

The following are some of the implementation responsibilities of Task Leaders as defined in this TMP:

#### NDOT Resident Engineer

1. Approve staging areas.
2. Coordinate with other construction activity in the general area of this project.
3. Enforce the contract limitations of operations.
4. Review the safety of in-place traffic control and contractor operations.
5. Provide construction information to District II so that they can place it on the 511 website.
6. Identify additional emergency contacts.

#### Contractor

1. Choose staging areas.
2. Coordinate with other construction activity in the general area of this project.
3. Design and submit traffic control plans.
4. Provide traffic control supervision and inspection.

### Emergency Contacts

|   |                        |                           |
|---|------------------------|---------------------------|
| Bhupinder Sandhu, Asst. District II Engineer: | (775) 888-7708 Office; | (775) 434-3458 Cell phone |
| Ryan Hornback, Resident Engineer:             | (775) 888-3025 Office; | (775) 434-4983 Cell phone |
| William Hurlburt, Assistant Resident Engineer | (775) 888-3025 Office; | (775) 443-7724 Cell phone |

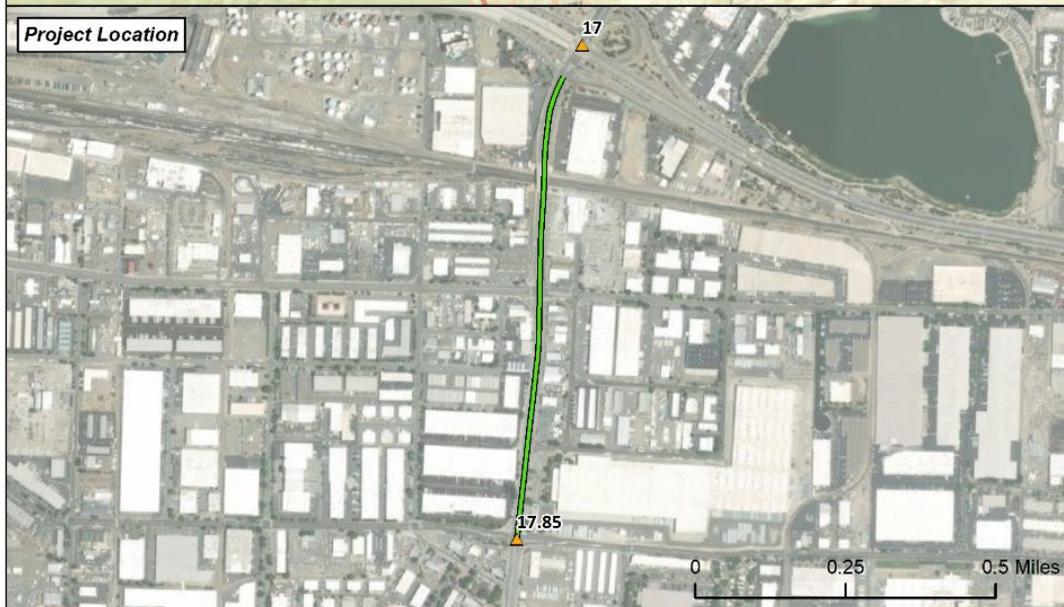
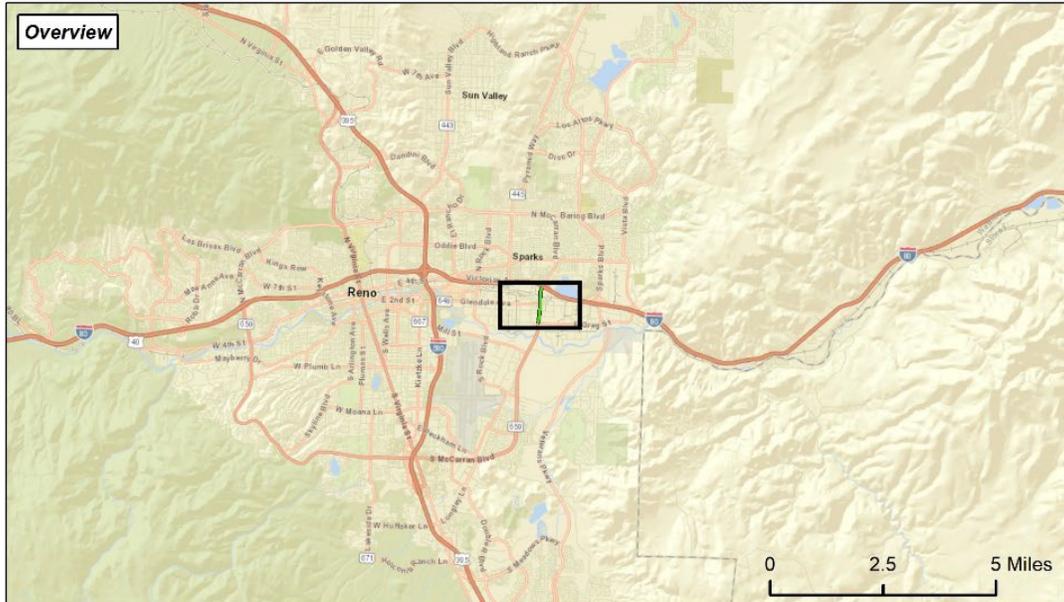
Additional emergency contacts will be identified at the Pre-Construction Meeting.

# Project Description

The project consists of mill and fill SR-659, McCarran Blvd.

# Project Type

This is a betterment project and is state funded.



- ▲ Mile Marker
- Project Limits

## Betterment Project Location



N



EA61037  
Mill & Fill

District 2-2, Washoe County - SR659

Created By: Kurtis Graham  
Date Created: 2022-04-13  
Source: NDOT, ESR!

## General Schedule and Timeline

This project is anticipated to begin construction in the fall of 2022. The contractor will be allowed thirty (30) working days for this project.

## Existing and Future Conditions

The following traffic analysis is provided as a recommendation/guidance. This is not to supersede the 108.04 of the Special Provision. Please refer to that section for the contract Limitations of Operations in development of the Traffic Control Plan.

SR-659 (McCarran Blvd) in the project area is a principal arterial with three 12-foot lanes per direction, 1-3 feet interior shoulders, and 8-foot typical bike lanes on the exterior shoulders for both directions. The directional traffic is separated by raised curb median. The intersections of SR-659 with Grey St, Glendale Ave, Nugget Ave, and the I-80 Eastbound off-ramp are all signalized. All other intersections and driveways are Two-Way Stop-Controlled (TWSC) with SR-659 as the major roadway. The posted speed limit is 45 mph throughout the project area. The heavy truck percentage is 1.8% for the roadway.

The typical morning peak hour traffic volumes on SR-659 are 1,930 vehicles per hour (vph) northbound and 1,269 vph southbound. The morning peak traffic periods are from 6:00 AM to 9:00 AM northbound and 8:00 AM to 12:00 PM southbound. The afternoon peak hour traffic volumes are 1,276 vph northbound and 1,865 vph southbound. The afternoon peak traffic periods are from 12:00 PM to 5:00 PM southbound and 3:00 PM to 6:00 PM northbound.

**SR-659 (McCarran Boulevard): 550 feet North of SR-658 (Glendale Avenue) (2018) ..... 27,600 AADT**

**SR-659 (McCarran Boulevard): 740 feet South of SR-658 Glendale Avenue (2018) ..... 22,000 AADT**

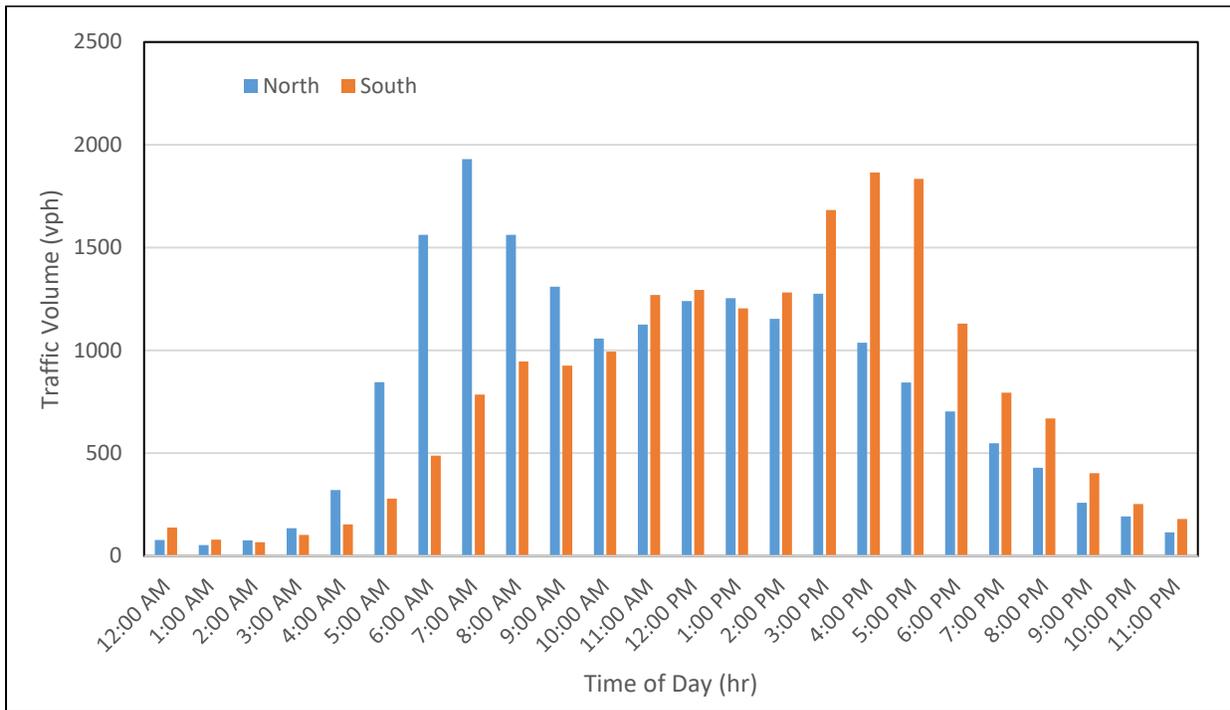


Figure 1: Typical Weekday Traffic Characteristics on SR-659

Traffic Operations recommends the following:

One lane per direction should always be opened to traffic.

**Northbound:**

Two lanes recommended from 5:00 AM to 6:00 AM and 9:00 AM to 7:00 PM

Three lanes recommend from 6:00 AM to 9:00 AM

**Southbound:**

Two lanes recommended from 7:00 AM to 3:00 PM and 6:00 PM to 8:00 PM

Three lanes recommend from 3:00 PM to 6:00 PM

**Stakeholder Concerns/Issues**

Project stakeholders and organizations potentially affected by the project include:

- Nevada DOT
- Washoe County
- Washoe County School District
- Local utility companies
- Nevada State Police: Division of Highway Patrol (NHP)
- Federal Highway Administration (FHWA)
- Adjacent local and commercial businesses
- Adjacent residents
- Emergency Medical Services

Stakeholder traffic concerns and issues, including those by the community and business representatives, known are:

- Delays to traffic and increased travel times
- Impacts to pedestrians and bicyclists
- Construction noise impacts on residents adjacent to the roadway
- Inconvenience to access local businesses and residences

**Work Zone Impacts Assessment Report**

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**Qualitative Summary of Anticipated Work Zone Impacts**

This work is expected to have impacts on mobility. The work on SR-659 is expected to have lane closures in each direction. In order to mitigate impacts to the motorist, lane closures will be limited to nighttime hours and will be coordinated with the adjacent work zone. Backups should be planned for by utilizing advanced signing, warnings on changeable message signs, and public notifications advising motorist to utilize alternate routes whenever possible.

A work zone impact assessment will be developed throughout construction. This ongoing assessment will include daily field surveys that monitor traffic mobility, evaluation of work safety records, and daily evaluation of stakeholder and public complaints. Upon review of the assessments, NDOT and the contractor may choose to modify the traffic control to improve deficiencies as appropriate.

**Construction Approach/Phasing/Staging Strategies**

This project will be completed using lump sum traffic control, submitted by the contractor, and approved by the Resident Engineer.

Regardless of traffic control operations, traffic will not be stopped for more than a 20-minute duration and will not be delayed for more than a total of 30 minutes.

One lane of public traffic in each direction shall be open at all times and all lanes shall be open to traffic during non-working hours.

Flaggers are required for all truck ingress and egress locations and for cross street intersections when deemed necessary and directed for safety.

Provide a minimum of 8 changeable message signs for the project 10 days prior to construction and coordinate content and location with the Resident Engineer.

Flashing beacons shall be used with W4-2 lane reduction signs for any lane closures.

Traffic control operations that take place at night, the use of portable overhead trailer mounted balloon lighting will be mandatory as determined and specified in 625 of the Special Provisions.

### Work Zone Impacts Management Strategies

A variety of management strategies may be deployed to minimize disruption to traffic and maintain a safe working environment. Suggested strategies to minimize impacts are documented in Table 1 (temporary traffic control), Table 2 (traffic operations control), and Table 3 (public information) as shown below:

| <b>Table 1- Temporary Traffic Control (TTC) Strategies</b>   |   |   |   |
|--|---|---|---|
| A. Control Strategies  | B. Traffic Control Devices  | C. Project Coordination, Contracting, and Innovative Construction Strategies  |   |
| Construction phasing/staging<br>Lane shifts or closures<br>Two-way traffic on one side of divided facility (crossover)<br>Night work<br>Weekend work<br>Pedestrian/bicycle access improvements<br>Business access improvements | Temporary signs <ul style="list-style-type: none"> <li>• Warning</li> <li>• Regulatory</li> </ul> Changeable message signs<br>Arrow panels<br>Channelizing devices<br>Flaggers and uniformed traffic control officers<br>Lighting devices | Project Coordination <ul style="list-style-type: none"> <li>• Coordination with other projects</li> <li>• Utilities coordination</li> <li>• Right-of-Way coordination</li> <li>• Coordination with other transportation infrastructure</li> </ul> |   |
| <b>Table 2- Transportation Operations (TO)</b>   |   |   |   |
| A. Demand Management Strategies  | B. Corridor/Network Management Strategies   | C. Work Zone Safety Management Strategies   | D. Traffic/Incident Management and Enforcement Strategies   |
|  | Bicycle Access<br>Pedestrian Access<br>Turn restrictions  | Construction safety supervisors/inspectors<br>TMP monitor/inspection team<br>Team meetings<br>Warning lights  | Incident/emergency management coordinator<br>Incident/emergency response plan<br>Dedicated (paid) police presence<br>Increased penalties for work zone violations |
| <b>Table 3- Public Information (PI)</b>  |   |   |   |
| Press releases/media alerts (Done by Headquarters) as appropriate<br>Coordination with media, schools, businesses, and/or emergency services as appropriate<br>Work Zone safety highway signs                                  |   | Changeable Message Signs (CMS)<br>Highway information network (web-based)<br>511 traveler information systems (wireless, handhelds)<br>Social Media (Facebook, Twitter)   |   |

### Selected Alternative

The selected alternative for work will be completed using lump sum traffic control submitted by the contractor and approved by the Resident Engineer. Traffic control plans submitted by the contractor will be subject to the construction restrictions and limitations as written in the Special Provisions.

## TMP Monitoring

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### Monitoring Requirements

The Resident Engineer will monitor the effectiveness of the TMP through general inspection and traffic control supervision. The NDOT Resident Engineer will document unforeseen events relevant to the TMP as well as lessons learned. If any relevant information is documented, it should be distributed to the TMP Project Manager.

### Public Information and Outreach Plan

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As appropriate, portable CMSs will be used to inform road users of traffic information, such as to alert drivers of possible delays, dates construction will occur, incidents, or alternate routes. The current plan is to deploy eight (8) changeable message signs ten (10) days prior to construction activities.

NDOT also maintains work zone information for motorists on the 511 Traveler Information Line as well as on their website (<http://www.nvroads.com>). This project will be posted on the Traveler Information System.

### Incident Management Plan

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Incident management is the standardized procedure in place for the safe, efficient, and quick management of an incident zone from the time of incident to roadway clearance. Incident management will be handled by the 1<sup>st</sup> responder community. At each incident a 1<sup>st</sup> responder, known as the Incident Commander, will take authority over the management of incident zone. It is the responsibility of NDOT, the contractor, all subcontractors, and any consultants to defer to the Incident Commander until the incident area is clear. Guidelines for incident management are developed and adopted by local agencies as part of the local Traffic Incident Management (TIM) Coalition. For questions during an incident see the Incident Commander, for all other times contact TIM representatives Captain John Dondero at 775-687-9628 or at [Jdondero@dps.state.nv.us](mailto:Jdondero@dps.state.nv.us). For NDOT maintenance participation contact Assistant District Engineer John Angel at 775-834-8300 or at [jangel@dot.nv.gov](mailto:jangel@dot.nv.gov).



QUALIFIED  
PRODUCTS  
LIST

March 14, 2022



# QUALIFIED PRODUCTS LIST (QPL)

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| 716.03.01d | REFLECTIVE SHEETING (TYPE IX)   | 56 – 57 |
| 716.03.01e | REFLECTIVE SHEETING (TYPE XI)   | 57      |
| 728.03.02  | EPOXY RESIN ADHESIVE FOR BONDING  | 58 – 62 |
| 729.03.03  | PAINT MARKING MATERIAL – EPOXY  | 62 – 63 |
| 729.03.04a | PAINT MARKING MATERIAL – RAPID DRY WATERBORNE PAINT (ACRYLIC EMULSION)                        | 63      |
| 729.03.04b | PAINT MARKING MATERIAL – RAPID DRY WATERBORNE PAINT (TYPE I, TEMPORARY STRIPING FORMULATION)  | 64      |
| 729.03.04c | PAINT MARKING MATERIAL – RAPID DRY WATERBORNE PAINT (TYPE II, PERMANENT STRIPING FORMULATION) | 64 – 65 |
| 729.03.05  | PAINT MARKING MATERIAL – POLYUREA   | 65 – 66 |
| 732.03.01  | PAVEMENT MARKING TAPE (TYPE I)  | 66      |
| 732.03.02  | PAVEMENT MARKING TAPE (TYPE II)   | 67      |
| 732.03.03  | PAVEMENT MARKING TAPE (TYPE IV)   | 67 – 68 |
| 732.03.04a | PAVEMENT MARKINGS (HOT APPLIED THERMOPLASTIC)   | 68      |
| 732.03.04b | PAVEMENT MARKINGS (PREFORMED THERMOPLASTIC)   | 68 – 69 |

#### **QPL Category Notes:**

- 496.02.02     *OVERLAY SYSTEM (POLYESTER) category number has been changed from 496.02.01.*
- 505.02.01     *EPOXY COATINGS (FOR STEEL REINFORCING BARS) category number has been changed from 505.02.03.*
- 609.02.01     *FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL) category number has been changed from 609.03.02.*
- 610.03.06     *ARTICULATED CONCRETE BLOCK category number has been changed from 610.02.01.*
- 623.02.37     *DYNAMIC MESSAGE SIGNS category number has been changed from 623.01.01.*
- 625.02.04     *IMPACT ATTENUATOR (TEMPORARY) products which employ sand barrel technology have been removed from category.*
- 646.02.04     *SHEET MEMBRANE category was created at the 3/8/22 PEC meeting. Applications for product evaluation will be accepted as soon as acceptance criteria is finalized later this year.*

- 729.03.04a PAINT MARKING MATERIAL – RAPID DRY WATERBORNE PAINT (ACRYLIC EMULSION) category number has been changed from 729.03.05a.
- 729.03.04b PAINT MARKING MATERIAL – RAPID DRY WATERBORNE PAINT (TYPE I, TEMPORARY STRIPING FORMULATION) category number has been changed from 729.03.05b.
- 792.03.04c PAINT MARKING MATERIAL – RAPID DRY WATERBORNE PAINT (TYPE II, PERMANENT STRIPING FORMULATION) category number has been changed from 729.03.05c.

### General Notices:

NDOT is currently seeking applications for product evaluation in the following QPL categories:

- 214.02.01 MAILBOX SUPPORT SYSTEMS
- 496.02.01 OVERLAY SYSTEM (POLYESTER)
- 497.02.04 ADHESIVES FOR MULTILAYER OVERLAYS
- 497.02.05 AGGREGATES FOR MULTILAYER OVERLAYS
- 502.02.04b CONCRETE PAINT
- 613.02.01 DETECTABLE WARNINGS (ADA TILE)
- 623.02.016 DUCT SEALING COMPOUND
- 625.02.03 CHANGEABLE MESSAGE SIGNS
- 627.02.01 THERMOPLASTIC SIGN PANELS
- 646.02.05 LIQUID MEMBRANE

If you represent a product which meets the acceptance criteria for evaluation by NDOT, please consider submitting an application for product evaluation at <https://www.dot.nv.gov/doing-business/about-ndot/ndot-divisions/planning/research/product-evaluation>.

### MASH Changes to QPL:

**12/31/19 NDOT has removed all non-MASH-16 compliant products from the following eight QPL categories:**

| <u>Category Number</u> | <u>Category Description</u>   | <u>Category Number</u> | <u>Category Description</u>       |
|------------------------|-------------------------------|------------------------|-----------------------------------|
| 214.02.01              | MAILBOX SUPPORT SYSTEMS       | 625.02.05              | IMPACT ATTENUATOR (TRUCK MOUNTED) |
| 618.02.01a             | GUARDRAIL TERMINAL            | 625.02.06              | ALTERNATIVE PORTABLE BARRIER RAIL |
| 625.02.03              | CHANGEABLE MESSAGE SIGNS      | 625.03.03              | SIGN SUPPORT SYSTEM               |
| 625.02.04              | IMPACT ATTENUATOR (TEMPORARY) | 625.03.04              | BARRICADES                        |

Products in the above eight categories on the active QPL just prior to the 12/31/19 deadline date may not be purchased new after that date but can continue to be used throughout their normal service life. MASH-16 compliant devices presented to NDOT through its product evaluation program <https://www.dot.nv.gov/doing-business/about-ndot/ndot-divisions/planning/research/product-evaluation> will be considered for inclusion on future QPLs.

***If you have any questions related to NDOT's MASH-16 compliance plan or questions regarding the status of any the previously removed safety related products, please contact Tim Rudnick at 775-888-7598 or [trudnick@dot.nv.gov](mailto:trudnick@dot.nv.gov).***

### *Archived Editions of the QPL:*

Past editions of the NDOT QPL have been removed from the Research Section webpages. If you need to obtain one please use the list of archived QPLs at the back of this document to identify the exact edition(s) you require. Send your request to the Product Evaluation Coordinator at [sgilbert-young@dot.nv.gov](mailto:sgilbert-young@dot.nv.gov).

# NEVADA DEPARTMENT OF TRANSPORTATION

## QUALIFIED PRODUCTS LIST (QPL)

### 213.02.17 BACKFLOW PREVENTER COVERS

| Vendor Name / Address  | Product Name   | Remarks   |
|--|--|---|
| Stongbox, LLC<br>Adam Matthews<br>2320 Meyers Ave.<br>Escondido CA 92029<br>sales@strongbox.com  | Phone: (760) 480-6702<br>Cell:<br>Fax: (760) 480-0211<br>www.strongbox.com | <b>SBBC-60 ALHP I</b><br><br><br><br><br>approved<br>6 /14/2006 |
| Strongbox, LLC<br>Adam Matthews<br>2320 Meyers Ave.<br>Escondido CA 92029<br>sales@strongbox.com | Phone: (760) 480-6702<br>Cell:<br>Fax: (760) 480-0211<br>www.strongbox.com | <b>SBBC-60 ALHP</b><br><br><br><br><br>approved<br>6 /14/2006   |

### 214.02.01 MAILBOX SUPPORT SYSTEMS

| Vendor Name / Address                               | Product Name            | Remarks   |
|---|-------------------------|---|
| No Vendors at this time<br>***<br>***<br>*** ** *** | Phone:<br>Cell:<br>Fax: | <b>***</b><br><br><br>MASH-16 crash testing standards are in effect for this category on 12/31/19. Awaiting submission of qualifying products from Industry to repopulate category.<br>approved<br>12/31/2019 |

### 401.03.02 ASPHALT RELEASE AGENTS

| Vendor Name / Address   | Product Name  | Remarks  |
|---|---|--|
| Arrow-Magnolia International, Inc.<br>Curtis Shaw<br>2646 Rodney Lane<br>Dallas TX 75229<br>cshaw@arrowmagnolia.com | Phone: (800) 527-2101<br>Cell: (214) 415-3984<br>Fax: (972) 247-7111<br>www.arrowmagnolia.com | <b>Super Slick Asphalt Release Agent</b><br>Dilution rate is 10:1. Expires 12/1/24.<br>approved<br>7 /12/2006                  |
| BG Chemical<br>Mike Blanco<br>P.O. Box 720025<br>Dallas TX 75372<br>mblanco@bgchemical.com                          | Phone: (214) 826-6822<br>Cell: (832) 236-8018<br>Fax: (214) 826-7290<br>bgchemical.com        | <b>Loose Juice</b><br>Dilution rate is 10:1. Expires 6/1/24.<br>approved<br>3 /11/2021   |
| BG Chemical LP<br>Jeff Gunter<br>PO Box 720025<br>Dallas TX 75372<br>jgunter@bgchemical.com                         | Phone: (800) 725-8470<br>Cell: (214) 826-6822<br>Fax: (214) 826-7290<br>www.bgchemical.com    | <b>GreenGuard</b><br>Dilution rate is 10:1. Expires 12/1/21. HAVE NOT RECEIVED UPDATED TESTING INFO.<br>approved<br>11/5 /2009 |
| ChemStation of Nevada<br>Mark Stipek<br>4430 Mitchell Street<br>North Las Vegas NV 89081<br>mstipek@chemstation.com | Phone: (702) 771-3455<br>Cell: (702) 771-3455<br>Fax: (702) 360-6588<br>chemstation.com       | <b>20331</b><br>Dilution rate is 4:1. Expires 12/1/21. HAVE NOT RECEIVED UPDATED TESTING INFO.<br>approved<br>6 /11/2020       |

**401.03.02 ASPHALT RELEASE AGENTS**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>  | <b>Remarks</b>  |                               |
|---|--|---|-------------------------------|
| ChemStation of Nevada<br>Mark Stipek<br>4430 Mitchell Street<br>North Las Vegas NV 89081<br>mstipek@chemstation.com | Phone: (702) 771-3455<br>Cell: (702) 771-3455<br>Fax: (702) 360-6588<br><br>chemstation.com        | <b>40019D</b><br><br>Dilution rate is 4:1. Expires 12/1/21. HAVE NOT RECEIVED UPDATED TESTING INFO.                               | <b>approved</b><br>6 /11/2020 |
| ChemStation of Nevada<br>Mark Stipek<br>4430 Mitchell Street<br>North Las Vegas NV 89081<br>mstipek@chemstation.com | Phone: (702) 771-3455<br>Cell: (702) 771-3455<br>Fax: (702) 360-6588<br><br>chemstation.com        | <b>41470C</b><br><br>Dilution rate is 4:1. Expires 3/1/25.  | <b>approved</b><br>6 /11/2020 |
| Chemtek, Inc.<br>Kat Murray<br>3005 Carrington Mill Blvd.<br>Morrisville NC 27560<br>kat.murray@chemtek.us          | Phone: (800) 672-8536<br>Cell:<br>Fax:<br><br>www.chemtekinc.com                                   | <b>Product 357 (Tradenames: PavePro Blue/NoTrax)</b><br><br>Ready to use. Expires 9/1/21. HAVE NOT RECEIVED UPDATED TESTING INFO. | <b>approved</b><br>4 /1 /2020 |
| Meyer Laboratory, Inc.<br>Gary Brandt<br>2401 W. Jefferson<br>Blue Springs MO 64015<br>gbrandt@meyerlab.com         | Phone: (816) 228-4433<br>Cell:<br>Fax: (816) 229-4604<br><br>www.meyerlab.com                      | <b>Super Slider</b><br><br>Ready to use. Expires 3/1/25.  | <b>approved</b><br>3 /11/2021 |
| Zep, Inc.<br>Allen Popham<br>70 Riverside Drive SW<br>Cartersville GA 30120<br>charles.popham@zep.com               | Phone: (678) 721-4101<br>Cell: (770) 547-1431<br>Fax: (770) 386-3391<br><br>www.asphaltrelease.com | <b>BMF</b><br><br>Dilution rate is 3:1. Expires 3/1/27. Product was previously under Compound Technologies, Inc.                  | <b>approved</b><br>6 /15/2016 |

**406.02.01 PRIME COAT MATERIAL**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>  |                               |
|--|--|---|-------------------------------|
| Ergon Asphalt & Emulsions, Inc.<br>Mo Rahman<br>3901 W. Ponderosa Way<br>Las Vegas NV 89118-3018<br>mo.rahman@ergon.com              | Phone: (480) 505-8079<br>Cell: (480) 252-4602<br>Fax:<br><br>ergonasphalt.com                | <b>ePrime</b><br><br>Product is shipped ready to use (no dilution required). Application rates: Apply 0.20 gal per sq yd for prime coat; Apply 0.15 gal per sq yd for curing seal.  | <b>approved</b><br>9 /11/2012 |
| Marathon Petroleum<br>Jim Ryan<br>PO Box 5655<br>Bakersfield CA 93388<br>james.ryan@andeavor.com                                     | Phone: (661) 392-3630<br>Cell: (661) 978-9357<br>Fax: (661) 399-1054<br><br>www.andeavor.com | <b>Topein-S</b><br><br>Dilute 1 part Topein-S with 3 parts water, apply 0.25 gal per sq yd and allow to break, then apply 0.15 gal per sq yd and allow to cure for 24 hours. Adjust at Resident Engineer's direction to prevent puddling or runoff. | <b>approved</b><br>9 /11/2012 |
| Southwest Liquid Asphalt & Emulsions<br>Gene Chrisenberg<br>3750 N. Bruce Street<br>North Las Vegas NV 89030<br>gene.swa@outlook.com | Phone: (435) 659-1984<br>Cell:<br>Fax:   | <b>Asphalt Emulsion Prime (AEP)</b><br><br>approved for a standard application rate of 0.25 gal per square yard.  | <b>approved</b><br>7 /22/2019 |

**408.02.05 ALL WEATHER ASPHALT COLD PATCH**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>   |
|---|---|--|
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com                              | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br><br>www.crafco.com                | <b>HP All Season Asphalt<br/>Cold Patch Part No. 34977</b><br><br>approved<br>10/13/2011 |
| Perma-Patch, LLC<br>Eric Osterchrist<br>6123 Oakleaf Ave.<br>Baltimore MD 21515<br>eric@permapatch.com                                | Phone: (800) 847-5744<br>Cell: (719) 231-2475<br>Fax:<br><br>www.permapatch.com                           | <b>Perma-Patch</b><br><br>approved<br>1/11/2022  |
| Seaboard Asphalt Products Company<br>Shawn Campbell<br>3601 Fairfield Road<br>Baltimore MD 21226<br>sales@seaboardasphalt.com         | Phone: (410) 355-0330<br>Cell: (800) 536-0332<br>Fax: (410) 355-5864<br><br>www.seaboardasphalt.com       | <b>Bond-X Green High<br/>Performance Cold Mix</b><br><br>approved<br>9/3/2014            |
| Seaboard Asphalt Products Company<br>Shawn Campbell<br>3601 Fairfield Road<br>Baltimore MD 21226<br>sales@seaboardasphalt.com         | Phone: (410) 355-0330<br>Cell: (800) 536-0332<br>Fax: (410) 355-5864<br><br>www.seaboardasphalt.com       | <b>Seaboard Bond-X High<br/>Performance Cold Mix</b><br><br>approved<br>10/13/2011       |
| SpecChem, LLC<br>Mike LeMark<br>1511 Baltimore Ave.<br>Kansas City MO 64108<br>mleMark@specchemllc.com                                | Phone: (816) 986-5600<br>Cell: (562) 489-9607<br>Fax: (816) 561-4029<br><br>specchemllc.com               | <b>Max-A-Patch ACP</b><br><br>approved<br>12/3/2020                                      |
| Unique Paving Materials Corporation<br>Don Koehler<br>3993 East 93rd Street<br>Cleveland OH 44105<br>dkoehler@uniquepavingmatters.com | Phone: (800) 441-4880<br>Cell: (216) 978-9883<br>Fax: (216) 341-8514<br><br>www.uniquepavingmaterials.com | <b>UPM High Performance<br/>Cold Mix</b><br><br>approved<br>10/13/2011                   |

**496.02.02 OVERLAY SYSTEM (POLYESTER)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>                                      |
|--|---|---|
| Atlas Tech Products<br>Ryan Quinn<br>680 West Lake Mead Parkway<br>Henderson NV 89015<br>ryanquinn@atlasform.com       | Phone: (702) 227-6800<br>Cell: (858) 277-2100<br>Fax: (702) 222-0488<br><br>www.atlasform.com | <b>Atlas Tech-Deck</b><br><br>approved<br>3/13/2012 |
| Kwik Bond Polymers, LLC<br>Steve Frank<br>3491 Old Cobble Court<br>San Diego CA 92111<br>stevepolymerdek@sbcglobal.net | Phone: (858) 442-8185<br>Cell:<br>Fax: (858) 571-5043<br><br>www.kwikbondpolymers.com         | <b>PPC-1121</b><br><br>approved<br>3/13/2012        |

**497.02.04 ADHESIVES FOR MULTILAYER OVERLAYS**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| E-Bond Epoxies Incorporated<br>Steve Frank<br>3491 Old Cobble Court<br>San Diego CA 92111<br>stevepolymerdek@sbcglobal.net | Phone: (858) 442-8185<br>Cell:<br>Fax: (858) 571-5043<br><br>www.polymerdek.com               | <b>E-Bond 526</b><br><br><br><br><br>approved<br>8 /29/2009  |
| E-Chem, LLC<br>Renee Thomas<br>4102 El Rey Road SE<br>Albuquerque NM 87105<br>rthomas@atcepoxy.com                         | Phone: (505) 217-2121<br>Cell: (954) 789-4764<br>Fax: (505) 217-3721<br><br>www.e-chem.net    | <b>EPX50-OVERLAY FAST</b><br><br><br><br><br>approved<br>12/17/2018  |
| Kwik Bond Polymers, LLC<br>Steve Frank<br>3491 Old Cobble Court<br>San Diego CA 92111<br>stevepolymerdek@sbcglobal.net     | Phone: (858) 442-8185<br>Cell:<br>Fax: (858) 571-5043<br><br>http://www.kwikbondpolymers.com/ | <b>Kwik Bond PPC-HFST</b><br>For use in high friction surface treatments (HFST).<br><br><br><br>approved<br>9 /21/2021                                       |
| Olin Poly-Carb<br>Solmaz Pirouz<br>4005 Technology Drive, Suite 1500<br>Angleton TX 77515<br>spirouz@olin.com              | Phone: (330) 748-6407<br>Cell: (979) 480-4607<br>Fax:<br><br>https://olinpolycarb.com/        | <b>Poly-Carb Mark 163 Flexogrid</b><br>4/26/21 informed by vendor that this product is not being produced or sold in 2021.<br><br><br>approved<br>8 /29/2009 |

**497.02.05 AGGREGATES FOR MULTILAYER OVERLAYS**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| Earth Work Solutions, LLC<br>Shay Lundvall<br>2506 Little Powder River Road<br>Gillette WY 82716<br>shay.lundvall@earthwork.us.com | Phone: (307) 682-4346<br>Cell: (307) 228-3050<br>Fax:<br><br>earthwork.us.com       | <b>Traction Control</b><br>calcined bauxite. Available in super sacks.<br><br><br><br>approved<br>9 /20/2021   |
| Earthwork Solution, LLC<br>Patrick Malfitano<br>5595 East Bijou Street<br>Colorado Springs CO 80916<br>patrick@ewslag.com          | Phone: (719) 492-0706<br>Cell:<br>Fax:<br><br>x                                     | <b>#8 EAF Steel Slag</b><br>steel slag. Awaiting updated contact info.<br><br><br><br>approved<br>9 /20/2021   |
| Great Lakes Minerals, LLC<br>Georgia Eusner<br>1200 Port Road<br>Wurtland KY 41144<br>georgia@glmin.com                            | Phone: (703) 989-4861<br>Cell:<br>Fax: (606) 834-1106<br><br>greatlakesminerals.com | <b>GRIPgrain</b><br>Calcined bauxite. Company notes product is packaged in 4000# bulk bag and placed on a pallet with rain cap and shrink wrapping to ensure it stays dry.<br><br><br>approved<br>9 /20/2021 |
| Harsco Metals LLC<br>Norm Whinery<br>x<br>x<br>x   | Phone: (870) 763-6505<br>Cell: (870) 549-0395<br>Fax:<br><br>x                      | <b>#8 EAF Steel Slag</b><br>steel slag. Awaiting updated contact info.<br><br><br><br>approved<br>9 /20/2021   |

**497.02.05 AGGREGATES FOR MULTILAYER OVERLAYS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>  |
|---|--|---|
| Kwik Bond Polymers<br>Gregg Freeman<br>923 Teal Drive<br>Benicia CA 94510<br>gregg@kwikbondpolymers.com                           | Phone: (720) 626-6643<br>Cell: (866) 434-1772<br>Fax:<br><br>http://kwikbondpolymers.com | <b>KBP Calcined Bauxite</b><br>calcined bauxite.<br><br><br>approved<br>9 /20/2021  |
| Newport Industries Ltd<br>Head Office contact<br>20 Belmont Terrace,<br>Chiswick W4 5UG<br>London<br>sales@newport-industries.com | Phone: (919) 522-8113<br>Cell:<br>Fax:<br><br>www.calcined-bauxite.com                   | <b>Calcined Bauxite</b><br>calcined bauxite. Tel: +44 208 742 0333, Fax: +44 208 742 0444. Awaiting updated contact info.<br><br><br>approved<br>9 /20/2021 |
| Schmidt Construction<br>Tom Blair<br>x<br>x x<br>tblair@edwclevy.net  | Phone: (248) 675-0103<br>Cell: (248) 766-3586<br>Fax:                                    | <b>#8 EAF Steel Slag</b><br>steel slag. Awaiting updated contact info.<br><br><br>approved<br>9 /20/2021  |
| Washington Rock Quarries Inc.<br>Dale Mortensen<br>21711 103rd Ave Ct E, Suite C302<br>Graham WA 98338<br>dale@wa-rock.com        | Phone: (801) 884-3510<br>Cell: (253) 262-1661<br>Fax: (253) 262-1664<br><br>wa-rock.com  | <b>Basalt by Armorstone</b><br>epoxy overlay aggregate. Available in super sacks.<br><br><br>approved<br>9 /20/2021   |

**502.02.04b CONCRETE PAINT**

| <i>Vendor Name / Address</i>                        | <i>Product Name</i>         | <i>Remarks</i>  |
|---|-----------------------------|---|
| No Vendors at this time<br>***<br>***<br>*** ** *** | Phone: ***<br>Cell:<br>Fax: | New acceptance criteria has been issued for category. Awaiting submission of laboratory testing from applicants to populate category.<br><br><br>approved<br>9 /17/2019 |

**502.03.13b PREFORMED JOINT FILLERS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>  |
|---|--|---|
| EMSEAL Joint Systems, LTD<br>Andy Castillo<br>25 Bridle Lane<br>Westborough MA 01581-1228<br>acastillo@emseal.com | Phone: (508) 339-7900<br>Cell: (508) 836-0280<br>Fax:<br><br>www.emseal.com        | <b>BEJS (Bridge Expansion Joint System)</b><br><br><br>approved<br>7 /22/2019 |
| EMSEAL Joint Systems, LTD<br>Andres Castillo<br>25 Bridle Lane<br>Westborough MA 01581<br>acastillo@emseal.com    | Phone: (508) 330-7900<br>Cell:<br>Fax: (508) 836-0281<br><br>www.emseal.com/bridge | <b>EMV-Seal</b><br><br><br>approved<br>9 /20/2021                             |

**502.03.13b PREFORMED JOINT FILLERS**

| <i>Vendor Name / Address</i>   |  | <i>Product Name</i>                      | <i>Remarks</i>                               |
|--|--|--|--|
| MasterSpec Materials, LLC<br>Luisa Flores<br>806 Buchanan Blvd, Ste 115-294<br>Boulder City NV 89005<br>info@masterspecmaterials.com | Phone: (702) 997-8838<br>Cell: (505) 974-0421<br>Fax:<br><br>www.masterspecmaterials.com           | <b>RiteSeal Preformed Joint Seal</b>     | approved<br>7 /22/2019                       |
| Polyset Company Incorporated<br>Terry Eck<br>P.O. Box 111<br>Mechanicville NY 12118<br>t.eck@polyset.com                             | Phone: (518) 664-6000<br>Cell: (518) 522-6609<br>Fax: (518) 664-6001<br><br>www.polyset.com        | <b>Ply-Seal</b>                          | telephone ext. 332<br>approved<br>3 /28/2011 |
| Polyset Company Incorporated<br>Terry Eck<br>P.O. Box 111<br>Mechanicville NY 12118<br>t.eck@polyset.com                             | Phone: (518) 664-6000<br>Cell: (518) 522-6609<br>Fax: (518) 664-6001<br><br>www.polyset.com        | <b>Ply-Seal XE Beige</b>                 | telephone ext. 332<br>approved<br>3 /28/2011 |
| RJ Watson Incorporated<br>Tammy Gilbert<br>11035 Walden<br>Alden NY 14004<br>tgilbert@rjwatson.com                                   | Phone: (716) 901-7020<br>Cell: (716) 864-9122<br>Fax: (716) 901-7015<br><br>www.rjwatson.com       | <b>Silicoflex</b>                        | approved<br>12/7 /2000                       |
| Sunshine Industrial, Inc.<br>Mack Hahn<br>5051 Merriam Drive<br>Merriam KS 66203<br>mackh.sunshine@yahoo.com                         | Phone: (913) 362-6300<br>Cell: (816) 820-0035<br>Fax: (913) 362-6341<br><br>sunshineindustrial.com | <b>Polytite N</b>                        | approved<br>5 /7 /2015                       |
| TechStar Incorporated<br>Steve Brown<br>1219 West Main Cross Street<br>Findlay OH 45840<br>steve@techstar-inc.com                    | Phone: (419) 424-0888<br>Cell: (419) 408-5469<br>Fax: (419) 424-5959<br><br>www.techstar-inc.com   | <b>W Seal</b>                            | approved<br>4 /19/1999                       |
| Watson Bowman Acme<br>Chris Smyth<br>95 Pineview Drive<br>Amherst NY 14228<br>chris.smyth@watsonbowmanacme.com                       | Phone: (716) 544-4620<br>Cell: (716) 817-5410<br>Fax: (716) 691-9239<br><br>www.wbacorp.com        | <b>JEENE Structural &amp; Sealing Jt</b> | approved<br>8 /2 /2006                       |
| Watson Bowman Acme<br>Chris Smyth<br>95 Pineview Drive<br>Amherst NY 14228<br>chris.smyth@watsonbowmanacme.com                       | Phone: (716) 544-4620<br>Cell: (716) 817-5410<br>Fax: (716) 691-9239<br><br>www.wbacorp.com        | <b>Wabo Evazote UV</b>                   | approved<br>8 /2 /2006                       |

**502.03.13b PREFORMED JOINT FILLERS**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| Watson Bowman Acme<br>Chris Smyth<br>95 Pineview Drive<br>Amherst NY 14228<br>chris.smyth@watsonbowmanacme.com | Phone: (716) 544-4620<br>Cell:<br>Fax: (716) 691-9239<br>www.wbacorp.com | <b>Wabo FS Bridge Seal</b><br><br><br><br><br>approved<br>12/31/2019 |

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|--|--|---|
| Watson Bowman Acme<br>Chris Smyth<br>95 Pineview Drive<br>Amherst NY 14228<br>chris.smyth@watsonbowmanacme.com | Phone: (716) 544-4620<br>Cell:<br>Fax: (716) 691-9239<br>www.wbacorp.com | <b>Wabo SPS Joint System</b><br><br><br><br><br>approved<br>7/22/2019 |
|--|--|---|

**502.03.13c ASPHALTIC PLUG EXPANSION JOINTS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>   |
|---|---|--|
| DS Brown Company<br>Brent Toller<br>300 East Cherry Street<br>North Baltimore OH 45872<br>btoller@dsbrown.com | Phone: (800) 848-1730<br>Cell: (801) 837-8555<br>Fax: (419) 257-2200<br>www.dsbrown.com | <b>Matrix 502 DS Brown</b><br><br><br><br><br>approved<br>6/5/1997 |

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|--|--|---|
| Watson Bowman Acme<br>Chris Smyth<br>95 Pineview Drive<br>Amherst NY 14228<br>chris.smyth@watsonbowmanacme.com | Phone: (716) 544-4620<br>Cell:<br>Fax: (716) 691-9239<br>www.wbacorp.com | <b>Wabo Expandex</b><br><br><br><br><br>approved<br>12/5/2011 |
|--|--|---|

**502.03.13d EXPANSION JOINT SEALANT**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>   |
|---|---|--|
| Sika Corporation<br>Brandon McNamara<br>201 Polito Avenue<br>Lyndhurst NJ 07071<br>mcnamara.brandon@us.sika.com | Phone: (201) 508-6865<br>Cell: (201) 508-6865<br>Fax:<br>usa.sika.com | <b>Sikasil 728 RCS</b><br><br><br><br><br>approved<br>10/15/2014 |

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|--|--|--|
| The Dow Chemical Company<br>Jason Sika<br>12081 West Alameda Parkway #421<br>Lakewood CO 80228<br>jason.sika@dow.com | Phone: (989) 496-3833<br>Cell: (303) 880-9614<br>Fax:<br>www.dow.com | <b>DOWSIL 890-SL Silicone Sealant</b><br><br><br><br><br>approved<br>4/22/2002 |
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|--|--|--|
| The Dow Chemical Company<br>Jason Sika<br>12081 West Alameda Parkway #421<br>Lakewood CO 80228<br>jason.sika@dow.com | Phone: (989) 496-3833<br>Cell: (303) 880-9614<br>Fax:<br>www.dow.com | <b>DOWSIL 902 RCS Joint Sealant</b><br><br><br><br><br>approved<br>4/22/2002 |
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**502.03.13d EXPANSION JOINT SEALANT**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>  |
|--|---|---|
| Watson Bowman Acme<br>Chris Smyth<br>95 Pineview Drive<br>Amherst NY 14228<br>chris.smyth@watsonbowmanacme.com | Phone: (716) 544-4620<br>Cell: (716) 308-6799<br>Fax: (716) 691-9239<br>www.wbacorp.com | <b>Wabo Silicone Seal</b><br>Two part sealant<br>approved<br>8 /2 /2006 |

**502.03.13e EXPANSION JOINT (SPECIAL)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>   |
|---|---|--|
| Silicone Specialties Incorporated<br>Eric Larson<br>PO Box 50009<br>Tulsa OK 74150<br>eric.larsen@ssicm.com | Phone: (800) 888-8909<br>Cell: (713) 874-7017<br>Fax: (918) 582-7510<br>www.ssicm.com | <b>Dow 902 XJS Joint System</b><br>This is a general QPL ONLY; systems on this list will be selected for use based on project specifics. This product is permitted ONLY when specified in the contract documents as an acceptable product.<br>approved<br>4 /22/2002 |

**502.03.19 FINE SURFACE FINISH (BONDED GROUT)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>  | <b>Remarks</b>  |
|---|--|---|
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com | Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com | <b>Tammscoat Fine</b><br>approved<br>1 /1 /2006           |
| Textured Coatings of America<br>Bill Borchert<br>PO Box 9235<br>Santa Rosa CA 95405<br>specwestreps@aol.com     | Phone: (510) 206-8030<br>Cell:<br>Fax:<br>www.texcote.com                                      | <b>TexCote 300 Bridge Cote</b><br>approved<br>6 /16/2008  |
| Textured Coatings of America<br>Bill Borchert<br>PO Box 9235<br>Santa Rosa CA 95405<br>specwestreps@aol.com     | Phone: (510) 206-8030<br>Cell:<br>Fax:<br>www.texcote.com                                      | <b>TexCote XL70 Bridge Cote</b><br>approved<br>6 /16/2008 |

**502.03.22 JOINT SEALER (ALONG EDGES OF CONCRETE BARRIER RAIL)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>   |
|--|--|--|
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br>www.crafco.com | <b>Crafco Asphalt Rubber</b><br>Type 1, 2 or 4 depends on the climate zone<br>approved<br>1 /7 /1998 |
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br>www.crafco.com | <b>Deery 180</b><br>Type 1, 2 or 4 depends on the climate zone<br>approved<br>6 /6 /2013             |

**502.03.22 JOINT SEALER (ALONG EDGES OF CONCRETE BARRIER RAIL)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>  |
|---|---|---|
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com                            | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br>www.crafco.com          | <b>RP 3719</b><br>Type 1, 2 or 4 depends on the climate zone<br><b>approved</b><br>11/22/2016       |
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com                            | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br>www.crafco.com          | <b>RP 5078 B</b><br><b>approved</b><br>9/25/2017  |
| Henry Company<br>Dean Yake<br>999 North Sepulveda Boulevard Suite 800<br>El Segundo CA 90245<br>dyake@henry.com                     | Phone: (228) 239-3568<br>Cell:<br>Fax:<br>www.henry.com   | <b>Calseal</b><br>Type 1, 2 or 4 depends on the climate zone<br><b>approved</b><br>9/8/1998         |
| Maxwell Products Incorporated<br>Chris Robb<br>650 South Delong Street<br>Salt Lake City UT 84104<br>chris.robb@maxwellproducts.com | Phone: (801) 972-2090<br>Cell: (801) 803-9281<br>Fax: (801) 972-5536<br>www.maxwellproducts.com | <b>Elastoflex 650</b><br>Type 1, 2 or 4 depends on the climate zone<br><b>approved</b><br>9/30/1996 |
| Maxwell Products Incorporated<br>Chris Robb<br>650 South Delong Street<br>Salt Lake City UT 84104<br>chris.robb@maxwellproducts.com | Phone: (801) 972-2090<br>Cell: (801) 803-9281<br>Fax: (801) 972-5536<br>www.maxwellproducts.com | <b>Elastoflex 670</b><br>Type 1, 2 or 4 depends on the climate zone<br><b>approved</b><br>9/30/1996 |
| The Quikrete Companies DBA QPR<br>Susan Holder<br>7322 Bonnyshire Dr.<br>Chattanooga TN 37416<br>susan.holder@quikrete.com          | Phone: (423) 553-6877<br>Cell: (901) 317-5243<br>Fax:<br>www.qprusa.com                         | <b>NxGen</b><br><b>approved</b><br>12/31/2019   |

**505.02.01 EPOXY COATINGS (FOR STEEL REINFORCING BARS)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>   |
|---|---|--|
| 3M Electrical Markets Division<br>Evelyn Lofquist<br>6801 River Place Boulevard<br>Austin TX 78726<br>elofquist@mmm.com | Phone: (512) 984-3230<br>Cell: (979) 215-4571<br>Fax:<br>www.3m.com/corrosion             | <b>Scotchkote 413 Fusion Bonded Epoxy Powder Coating</b><br>Fusion Bonded Epoxy Coating 413 - AASHTO M284 / ASTM A775<br><b>approved</b><br>10/10/2011 |
| Akzo Nobel<br>Lynette Drumm<br>20 Culvert Street<br>Nashville TN 37210<br>lynette.drumm@akzonobel.com                   | Phone: (615) 259-2430<br>Cell: (248) 245-2667<br>Fax: (615) 255-7903<br>www.akzonobel.com | <b>Resicoat RB600 HKF30R</b><br><b>approved</b><br>4/30/2008   |



**600.02.01 TRENCH DRAINS**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>  |                       |
|---|---|---|-----------------------|
| Hubbell Lenoir City, Inc.<br>Thomas Beattie<br>273 Willow Green Way<br>Vacaville CA 95687<br>tbeattie@hubbell.com | <b>Polycast 900R</b><br>Phone: (800) 346-3061<br>Cell: (707) 291-6991<br>Fax: (865) 986-0585<br>www.polycastdrain.com | This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | approved<br>9/18/2012 |
| Multidrain Systems Incorporated<br>Steve Born<br>PO Box 7107<br>Statesville NC 28687<br>steve.born@multidrain.com | <b>EconoDrain</b><br>Phone: (800) 433-1119<br>Cell: (704) 881-4064<br>Fax: (704) 508-1011<br>www.multidrain.com       | This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | approved<br>4/6/2004  |
| Multidrain Systems Incorporated<br>Steve Born<br>PO Box 7107<br>Statesville NC 28687<br>steve.born@multidrain.com | <b>MultiDrain</b><br>Phone: (800) 433-1119<br>Cell: (704) 881-4064<br>Fax: (704) 508-1011<br>www.multidrain.com       | This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | approved<br>4/6/2004  |

**609.02.01 FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>   |                        |
|--|--|--|------------------------|
| Aquafin<br>Alexander Gugliotta<br>505 Blue Ball Road, Suite 160<br>Elkton MD 21921<br>agugliotta@aquafin.net     | <b>Aquafin Pavemend SL</b><br>Phone: (410) 920-9395<br>Cell: (410) 392-2300<br>Fax:<br>https://www.aquafin.net/us/en                 | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R3 Mortar. Approved for all Districts. | approved<br>9/20/2021  |
| Ardex LP<br>Karen Marz<br>400 Ardex Park Drive<br>Aliquippa PA 15001<br>karen.marz@ardexamericas.com             | <b>Transportation Repair Mortar (TRM)</b><br>Phone: (724) 203-5000<br>Cell: (408) 425-3070<br>Fax:<br>www.ardexamericas.com          | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  | approved<br>10/31/2013 |
| Atlas Tech Products<br>Ryan Quinn<br>680 West Lake Mead Parkway<br>Henderson NV 89015<br>ryanquinn@atlasform.com | <b>Atlas Pro-1 Patch</b><br>Phone: (702) 227-6800<br>Cell: (858) 277-2100<br>Fax: (702) 222-0488<br>www.atlasform.com                | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  | approved<br>5/14/2009  |
| BASF Corporation<br>Doug Gray<br>889 Valley Park Drive<br>Shakopee MN 55379<br>doug.gray@basf.com                | <b>Master Emaco S466 CI</b><br>Phone: (952) 496-6547<br>Cell: (801) 971-1071<br>Fax: (952) 496-6067<br>www.buildingstystems.basf.com | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  | approved<br>1/3/2002   |
| BASF Corporation<br>Doug Gray<br>889 Valley Park Drive<br>Shakopee MN 55379<br>doug.gray@basf.com                | <b>Master Emaco T10-60</b><br>Phone: (952) 496-6547<br>Cell: (801) 971-1071<br>Fax: (952) 496-6067<br>www.buildingstystems.basf.com  | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  | approved<br>1/3/2002   |

**609.02.01 FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>  |
|---|---|---|
| BASF Corporation<br>Doug Gray<br>889 Valley Park Drive<br>Shakopee MN 55379<br>doug.gray@basf.com                                       | <b>Master Emaco T545 DOT</b><br>Phone: (952) 496-6547<br>Cell: (801) 971-1071<br>Fax: (952) 496-6067<br>www.buildingstystems.basf.com | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>1 /3 /2002 |
| Buzzi Unicem USA Incorporated<br>William Krupa<br>100 Brodhead Road Suite 230<br>Bethlehem PA 18017<br>william.krupa@buzziunicemusa.com | <b>Ulti Pave3</b><br>Phone: (610) 882-4013<br>Cell: (610) 882-5013<br>Fax: (610) 868-8795<br>www.buzziunicemusa.com                   | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>6 /28/2010 |
| Buzzi Unicem USA Incorporated<br>William Krupa<br>100 Brodhead Road Suite 230<br>Bethlehem PA 18017<br>william.krupa@buzziunicemusa.com | <b>UltiGrout</b><br>Phone: (610) 882-4013<br>Cell: (610) 882-5013<br>Fax: (610) 868-8795<br>www.buzziunicemusa.com                    | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>6 /28/2010 |
| Buzzi Unicem USA Incorporated<br>William Krupa<br>100 Brodhead Road Suite 230<br>Bethlehem PA 18017<br>william.krupa@buzziunicemusa.com | <b>Utility Fill One Step</b><br>Phone: (610) 882-4013<br>Cell: (610) 882-5013<br>Fax: (610) 868-8795<br>www.buzziunicemusa.com        | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>6 /28/2010 |
| CTS Cement Manufacturing Corp<br>Grant Kao<br>12442 Knott Street<br>Garden Grove CA 92841<br>gkao@ctscement.com                         | <b>Rapid Set Cement All</b><br>Phone: (800) 929-3030<br>Cell: (626) 833-8838<br>Fax: (714) 379-8270<br>www.ctscement.com              | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>1 /27/1994 |
| CTS Cement Manufacturing Corp<br>Grant Kao<br>12442 Knott Street<br>Garden Grove CA 92841<br>gkao@ctscement.com                         | <b>Rapid Set Concrete Mix</b><br>Phone: (800) 929-3030<br>Cell: (626) 833-8838<br>Fax: (714) 379-8270<br>www.ctscement.com            | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>1 /27/1994 |
| CTS Cement Manufacturing Corp<br>Grant Kao<br>12442 Knott Street<br>Garden Grove CA 92841<br>gkao@ctscement.com                         | <b>Rapid Set DOT Repair Mix</b><br>Phone: (800) 929-3030<br>Cell: (626) 833-8838<br>Fax: (714) 379-8270<br>www.ctscement.com          | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>1 /27/1994 |
| CTS Cement Manufacturing Corp<br>Grant Kao<br>12442 Knott Street<br>Garden Grove CA 92841<br>gkao@ctscement.com                         | <b>Rapid Set Motar Mix</b><br>Phone: (800) 929-3030<br>Cell: (626) 833-8838<br>Fax: (714) 379-8270<br>www.ctscement.com               | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>1 /27/1994 |

**609.02.01 FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| CTS Cement Manufacturing Corporation<br>Grant Kao<br>12442 Knott Street<br>Garden Grove CA 92841<br>gkao@ctscement.com   | <b>Rapid Set Mortar Mix Plus</b><br>Phone: (800) 929-3030<br>Cell: (626) 833-8838<br>Fax: (714) 379-8270<br>www.ctscement.com | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>9 /25/2017  |
| Dayton Superior Corporation<br>Holly Jergens<br>1125 Byers Rd.<br>Miamisburg OH 75342<br>hollyjergens@daytonsuperior.com | <b>Dayton Superior HD-50</b><br>Phone: (937) 866-0711<br>Cell:<br>Fax:<br>www.daytonsuperior.com                              | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>9 /30/1996  |
| Euclid Chemical Company<br>Mark Ferfolia<br>19215 Redwood Rd.<br>Cleveland OH 44110<br>mferfolia@euclidchemical.com      | <b>EucoRepair SCC Fast</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8342<br>Fax: (216) 513-9399<br>www.euclidchemical.com  | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R2 Mortar. Approved for all Districts.<br>approved<br>9 /20/2021 |
| Euclid Chemical Company<br>Mark Ferfolia<br>19215 Redwood Rd.<br>Cleveland OH 44110<br>mferfolia@euclidchemical.com      | <b>EucoRepair V100</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8342<br>Fax: (216) 513-9399<br>www.euclidchemical.com      | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R2 Mortar. Approved for all Districts.<br>approved<br>9 /20/2021 |
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com          | <b>EucoSpeed</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com            | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>9 /23/1998  |
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com          | <b>EucoSpeed MP</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com         | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>9 /23/1998  |
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com          | <b>Express Repair</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com       | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>3 /16/2006  |
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com          | <b>Hi-Flow Grout</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com        | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br>approved<br>3 /16/2006  |

**609.02.01 FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>  |
|--|---|---|
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com                | <b>Speed Crete 2028 Rapid</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br><b>approved</b><br>1 /8 /2004  |
| Euclid Chemical Company<br>Mark Ferfolia<br>19215 Redwood Road<br>Cleveland OH 44110<br>mferfolia@euclidchemical.com           | <b>VersaSpeed 100</b><br>Phone: (800) 321-4628<br>Cell: (216) 692-8642<br>Fax: (216) 531-9399<br>www.euclidchemical.com         | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R3 Mortar. Approved for all Districts.<br><b>approved</b><br>9 /20/2021 |
| Euclid Chemical Company<br>Mark Ferfolia<br>19215 Redwood Road<br>Cleveland OH 44110<br>mferfolia@euclidchemical.com           | <b>Versaspeed LS100</b><br>Phone: (800) 321-4628<br>Cell: (216) 692-8642<br>Fax: (216) 531-9399<br>www.euclidchemical.com       | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R2 Mortar. Approved for all Districts.<br><b>approved</b><br>9 /20/2021 |
| Five Star Products Inc.<br>Ryan Taylor<br>60 Parrott Drive<br>Shelton CT 06484<br>taylorr@fivestarprouducts.com                | <b>Highway Patch</b><br>Phone: (800) 243-2206<br>Cell: (203) 336-7900<br>Fax: (203) 336-7930<br>www.fivestarprouducts.com       | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br><b>approved</b><br>9 /30/1996  |
| Five Star Products Inc.<br>Ryan Taylor<br>60 Parrott Drive<br>Shelton CT 06484<br>taylorr@fivestarprouducts.com                | <b>Structural Concrete</b><br>Phone: (800) 243-2206<br>Cell: (203) 336-7900<br>Fax: (203) 336-7930<br>www.fivestarprouducts.com | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br><b>approved</b><br>9 /30/1996  |
| H.B. Fuller Construction Products<br>Travis Buse<br>1105 South Frontenac Street<br>Aurora IL 60504<br>travis.buse@hbfuller.com | <b>ProSpec BlendCrete</b><br>Phone: (331) 454-3763<br>Cell:<br>Fax:<br>www.prospec.com  | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R3 Mortar. Approved for all Districts.<br><b>approved</b><br>12/31/2019 |
| H.B. Fuller Construction Products<br>Travis Buse<br>1105 South Frontenac Street<br>Aurora IL 60504<br>travis.buse@hbfuller.com | <b>ProSpec Premium Patch 200</b><br>Phone: (331) 454-3763<br>Cell:<br>Fax:<br>www.prospec.com                                   | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R3 Mortar. Approved for all Districts.<br><b>approved</b><br>12/31/2019 |
| Henkel Loctite<br>Matt Yetka<br>2735 Paint Drive<br>Auburn CA 95603<br>matthew.yetka@henkel.com                                | <b>Loctite PC9410 MagnaCrete</b><br>Phone:<br>Cell: (209) 482-4488<br>Fax:<br>www.loctite.com                                   | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.<br><b>approved</b><br>10/17/2008  |

**609.02.01 FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>   |                       |
|--|--|--|-----------------------|
| MAPEI Corporation<br>Bruce Haller<br>1144 E Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                    | <b>Planigrout 712</b><br>Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br>www.mapei.com   | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.          | approved<br>9/25/2017 |
| MAPEI Corporation<br>Bruce Haller<br>1144 E Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                    | <b>Planitop 18</b><br>Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br>www.mapei.com      | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.          | approved<br>3/24/2017 |
| MAPEI Corporation<br>Bruce Haller<br>1144 E Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                    | <b>Planitop 18 ES</b><br>Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br>www.mapei.com   | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.          | approved<br>9/25/2017 |
| MAPEI Corporation<br>Bruce Haller<br>1144 E Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                    | <b>Planitop 18 TG</b><br>Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br>www.mapei.com   | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.          | approved<br>9/24/2018 |
| MAPEI Corporation<br>Bruce Haller<br>1144 E Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                    | <b>Planitop X</b><br>Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br>www.mapei.com       | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.          | approved<br>9/25/2017 |
| MAPEI Corporation<br>Bruce Haller<br>1144 E Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                    | <b>Planitop XS</b><br>Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br>www.mapei.com      | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.          | approved<br>9/25/2017 |
| MasterSpec Materials, LLC<br>Luisa Flores<br>806 Buchanan Blvd, Ste 115-294<br>Boulder City NV 89005<br>info@masterspecmaterials.com | <b>RiteCrete</b><br>Phone: (702) 997-8838<br>Cell: (505) 974-0421<br>Fax:<br>www.masterspecmaterials.com         | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.          | approved<br>9/24/2018 |
| Phoscrete Corporation<br>Brian Mintz<br>265 S. Federal Hwy #320<br>Deerfield Beach FL 33441<br>brian.mintz@phoscrete.com             | <b>Phoscrete HC</b><br>Phone: (561) 420-0595<br>Cell: (727) 944-4368<br>Fax: (561) 420-0599<br>www.phoscrete.com | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Ext.719. | approved<br>3/24/2017 |

**609.02.01 FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>   |  |
|--|--|--|--|
| Sika Corporation<br>Brandon McNamara<br>201 Polito Avenue<br>Lyndhurst NJ 07071<br>mcmamara.brandon@us.sika.com                    | <b>Phone:</b> (201) 508-6865<br><b>Cell:</b> (201) 508-6865<br><b>Fax:</b><br><br>usa.sika.com                       | <b>Sikacrete 321FS</b>                                   | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  |
|  |  |  | <b>approved</b><br>12/28/2016  |
| Sika Corporation<br>Brandon McNamara<br>201 Polito Avenue<br>Lyndhurst NJ 07071<br>mcmamara.brandon@us.sika.com                    | <b>Phone:</b> (201) 508-6865<br><b>Cell:</b> (201) 508-6865<br><b>Fax:</b><br><br>usa.sika.com                       | <b>Sikaquick 2500</b>                                    | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  |
|  |  |  | <b>approved</b><br>12/28/2016  |
| SpecChem, LLC<br>Michael Lemark<br>1511 Baltimore Ave., Suite 600<br>Kansas City MO 64108<br>mlemark@specchemllc.com               | <b>Phone:</b> (816) 968-5600<br><b>Cell:</b> (562) 489-9607<br><b>Fax:</b><br><br>www.specchemllc.com                | <b>RepCon 928</b>  | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  |
|  |  |  | <b>approved</b><br>5 /7 /2013  |
| The QUIKRETE Companies, LLC<br>Anthony Ferrante<br>500 Marathon Parkway<br>Lawrenceville GA 30046<br>anthony.ferrante@quikrete.com | <b>Phone:</b> (404) 634-9100<br><b>Cell:</b> (800) 282-5828<br><b>Fax:</b> (770) 237-2548<br><br>www.quikrete.com    | <b>QUIKRETE Comm. Grade FastSet Repair Mortar 1241</b>   | Class R2 Mortar. Approved for all Districts. The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.   |
|  |  |  | <b>approved</b><br>12/10/2020  |
| The QUIKRETE Companies, LLC<br>Anthony Ferrante<br>500 Marathon Parkway<br>Lawrenceville GA 30046<br>anthony.ferrante@quikrete.com | <b>Phone:</b> (404) 634-9100<br><b>Cell:</b> (800) 282-5828<br><b>Fax:</b> (770) 237-2548<br><br>www.quikrete.com    | <b>QUIKRETE Commerical Grade FastSet DOT Mix 1244-56</b> | Class R3 Mortar. Approved for all Districts. The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.   |
|  |  |  | <b>approved</b><br>12/10/2020  |
| US Concrete Products<br>Thomas Brennan<br>16 Greenmeadow Drive<br>Timonium MD 21093<br>tjbrennan@uscproducts.com                   | <b>Phone:</b> (866) 827-8727<br><b>Cell:</b> (410) 561-8770<br><b>Fax:</b> (410) 561-8771<br><br>www.uscproducts.com | <b>HP Concrete</b>                                       | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  |
|  |  |  | <b>approved</b><br>10/22/2004  |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com                        | <b>Phone:</b> (303) 778-7227<br><b>Cell:</b> (303) 489-1083<br><b>Fax:</b> (303) 722-8426<br><br>www.usspec.com      | <b>US SPEC Quickset</b>                                  | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.  |
|  |  |  | <b>approved</b><br>3 /24/2017  |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com                        | <b>Phone:</b> (303) 778-7227<br><b>Cell:</b> (303) 489-1083<br><b>Fax:</b> (303) 722-8426<br><br>www.usspec.com      | <b>US SPEC SC Concrete</b>                               | The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. Class R3 Concrete. Approved for all Districts. |
|  |  |  | <b>approved</b><br>9 /20/2021  |

**609.02.01 FAST SETTING CONCRETE PRODUCTS (NON STRUCTURAL)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>  | <b>Remarks</b>   |                       |
|---|--|--|-----------------------|
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com | Phone: (303) 778-7227<br>Cell: (303) 489-1083<br>Fax: (303) 722-8426<br><br>www.usspec.com | <b>US SPEC STR Mortar CI</b><br><br>The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.                                    | approved<br>9/24/2018 |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com | Phone: (303) 778-7227<br>Cell: (303) 489-1083<br>Fax: (303) 722-8426<br><br>www.usspec.com | <b>US SPEC Transpatch</b><br><br>The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.                                       | approved<br>3/24/2017 |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com | Phone: (303) 778-7227<br>Cell: (303) 489-1083<br>Fax: (303) 722-8426<br><br>www.usspec.com | <b>US SPEC Transpatch Concrete</b><br><br>The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.                              | approved<br>9/3/2014  |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com | Phone: (303) 778-7227<br>Cell: (303) 489-1083<br>Fax: (303) 722-8426<br><br>www.usspec.com | <b>US SPEC Transpatch EXT</b><br><br>The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.                                   | approved<br>3/24/2017 |
| W.R. Meadows<br>Chris Mader<br>300 Industrial Dr.<br>Hampshire IL 60140<br>dot@wrmeadows.com                | Phone: (224) 325-1080<br>Cell:<br>Fax:<br><br>www.wrmeadows.com                            | <b>Futura-15-Very Rapid-Hardening Hztl. Repair Mortar</b><br><br>The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications.       | approved<br>8/21/2008 |
| Western Material & Design<br>Zach Gebhardt<br>101 E Walnut Street<br>Archie MO 64725<br>zgebhardt@wmdus.com | Phone: (816) 380-4747<br>Cell:<br>Fax:<br><br>fastracproducts.com                          | <b>FasTrac 246</b><br><br>Class R3 Mortar. Approved for all Districts. The use of products on this list are limited to concrete collars placed around manholes, valves, covers, etc., unless pre-approved through Materials Division for other applications. | approved<br>3/11/2021 |

**610.03.06 ARTICULATED CONCRETE BLOCK**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>  | <b>Remarks</b>  |                        |
|---|--|---|------------------------|
| Basalite Concrete Products, LLC<br>James Motarex<br>335 Greg Street<br>Sparks NV 89431-6295<br>james.motarex@basalite.com | Phone: (775) 358-1200<br>Cell: (775) 745-1286<br>Fax: (775) 359-5997<br><br>www.basalite.com | <b>UltraFlex</b><br><br>This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | approved<br>11/18/2009 |
| CONTECH<br>Daniel Priest<br>9025 Centre Pointe Drive Suite 400<br>West Chester OH 43069<br>dpriest@conteches.com          | Phone: (800) 338-1122<br>Cell: (513) 645-7000<br>Fax:<br><br>www.conteches.com               | <b>Armorflex</b><br><br>This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | approved<br>10/23/2008 |

**610.03.06 ARTICULATED CONCRETE BLOCK**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>  |                               |
|--|---|---|-------------------------------|
| CONTECH<br>Daniel Priest<br>9025 Centre Pointe Drive Suite 400<br>West Chester OH 43069<br>dpriest@conteches.com<br>www.conteches.com                              | <b>Petraflex</b><br>Phone: (800) 338-1122<br>Cell: (513) 645-7000<br>Fax:                 | This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | <b>approved</b><br>10/23/2008 |
| Shoretec<br>Cody Colvin<br>510 O'Neal Lane Ext<br>Baton Rouge LA 70819<br>ccolvin@premier-concrete.com<br>www.shoretec.com   | <b>Shoreblock</b><br>Phone: (225) 273-9600<br>Cell: (225) 328-0545<br>Fax: (225) 273-0400 | This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | <b>approved</b><br>3 /23/2009 |
| Shoretec<br>Cody Colvin<br>510 O'Neal Lane Ext<br>Baton Rouge LA 70819<br>ccolvin@premier-concrete.com<br>www.shoretec.com   | <b>Shoretec</b><br>Phone: (225) 273-9600<br>Cell: (225) 328-0545<br>Fax: (225) 273-0400   | This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | <b>approved</b><br>3 /23/2009 |
| Soil Retention Products, Inc.<br>Nick Jansson<br>1265 Carlsbad Village Dr., Suite 100<br>Carlsbad CA 92008<br>njansson@soilrentention.com<br>www.soilretention.com | <b>Enviroflex</b><br>Phone: (760) 966-6090<br>Cell:<br>Fax: (760) 966-6099                | This is a general QPL ONLY; the unit will be selected based on the specific project requirements. | <b>approved</b><br>8 /23/2011 |

**613.02.01 DETECTABLE WARNINGS (ADA TILE)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>  | <b>Remarks</b>                               |                               |
|---|--|--|-------------------------------|
| ADA Solutions, a Surewex Brand<br>John Stieby<br>323 Andover Street<br>Wilmington MA 01887<br>jstieby@surewex.com<br>adatile.com  | <b>Iron Dome Cast Iron<br/>           Detectable Warning Plates</b><br>Phone: (910) 695-5462<br>Cell:<br>Fax: (978) 262-9125 | Approved for cast iron in Patina (natural).  | <b>approved</b><br>3 /14/2022 |
| MetaDome, LLC<br>Duane Sippola<br>P.O. Box 7534<br>Madison WI 53707<br>ds@metadome.com<br>www.metadome.com                        | <b>CAST-DWD Cast Iron</b><br>Phone: (608) 249-8644<br>Cell: (608) 692-0837<br>Fax: (608) 249-8922                            | Approved for cast iron in Patina (natural).  | <b>approved</b><br>9 /20/2021 |
| Neenah Enterprises<br>James Malloy<br>2121 Brooks Ave. #4700<br>Neenah WI 54957<br>james.malloy@neenahenterprises.com<br>nfco.com | <b>Detectable Warning Plate</b><br>Phone: (503) 545-9322<br>Cell: (800) 558-5075<br>Fax: (920) 729-3661                      | Approved for cast iron in Patina (natural).  | <b>approved</b><br>6 /22/2021 |
| StrongGo, LLC<br>Jennifer Rinn<br>3296 East Hemisphere Loop<br>Tucson AZ 85706-5013<br>jrinn@stronggo.com<br>www.stronggo.com     | <b>TekWay Dome Tiles</b><br>Phone: (866) 439-3216<br>Cell: (520) 547-3510<br>Fax: (520) 547-3515                             | Approved for concrete panels in NV Red ONLY. | <b>approved</b><br>11/27/2006 |

**613.02.01 DETECTABLE WARNINGS (ADA TILE)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>   |
|---|---|--|
| TufTile, Inc.<br>Don Kimble<br>1200 Flex Court<br>Lake Zurich IL 60047<br>don@tuftile.com | Phone: (847) 307-3070<br>Cell: (847) 307-3078<br>Fax: (847) 550-8004<br><br>www.tuftile.com | <b>TufTile Cast Iron Tile and Radius Wedge Tiles</b><br>Approved for cast iron in Patina (natural).<br><br><b>approved</b><br>6 /22/2021 |

**616.02.01 PLASTIC FENCE FABRIC**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| CONTECH<br>Neil Erickson<br>9025 Centre Pointe Drive Suite 400<br>West Chester OH 43069<br>nerickson@conteches.com | Phone: (800) 338-1122<br>Cell: (916) 635-0760<br>Fax:<br><br>www.conteches.com          | <b>Safety Geogrid</b><br><br><br><br><b>approved</b><br>5 /15/2002 |
| Conwed Plastics<br>Customer Service<br>2810 Weeks Ave. SE<br>Minneapolis MN 55414<br>customer.service@swmintl.com  | Phone: (800) 426-6933<br>Cell: (612) 623-1700<br>Fax: (612) 623-2500<br><br>swmintl.com | <b>Safety Fence</b><br><br><br><br><b>approved</b><br>10/10/1999   |

**616.03.01 FENCE POST BAG MIX CONCRETE**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| CTS Cement Manufacturing Corp<br>Grant Kao<br>12442 Knott Street<br>Garden Grove CA 92841<br>gkao@ctscement.com                    | Phone: (714) 793-1040<br>Cell: (626) 833-8838<br>Fax: (714) 379-8270<br><br>www.ctscement.com | <b>CTS 24/6 Concrete Mix</b><br><br><br><br><b>approved</b><br>9 /20/2021        |
| MAPEI Corporation<br>Bruce Haller<br>1144 E. Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                 | Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br><br>www.mapei.com     | <b>Planitop 18</b><br><br><br><br><b>approved</b><br>6 /11/2020                  |
| MAPEI Corporation<br>Bruce Haller<br>1144 E. Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                 | Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br><br>www.mapei.com     | <b>Planitop 18 TG</b><br><br><br><br><b>approved</b><br>6 /11/2020               |
| The QUIKRETE Companies, LLC<br>Anthony Ferrante<br>500 Marathon Parkway<br>Lawrenceville GA 30046<br>anthony.ferrante@quikrete.com | Phone: (404) 634-9100<br>Cell: (800) 282-5828<br>Fax: (770) 237-2548<br><br>www.quikrete.com  | <b>Crack Resistant Concrete Mix</b><br><br><br><br><b>approved</b><br>6 /22/2021 |

**616.03.01 FENCE POST BAG MIX CONCRETE**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| The QUIKRETE Companies, LLC<br>Anthony Ferrante<br>500 Marathon Parkway<br>Lawrenceville GA 30046<br>anthony.ferrante@quikrete.com | Phone: (404) 634-9100<br>Cell: (800) 282-5828<br>Fax: (770) 237-2548<br><br>www.quikrete.com | <b>Fiber Reinforced Deck Mix</b><br><br><br><br><br>approved<br>6 /22/2021       |
| The QUIKRETE Companies, LLC<br>Anthony Ferrante<br>500 Marathon Parkway<br>Lawrenceville GA 30046<br>anthony.ferrante@quikrete.com | Phone: (404) 634-9100<br>Cell: (800) 282-5828<br>Fax: (770) 237-2548<br><br>www.quikrete.com | <b>Form and Pour Concrete Mix MS</b><br><br><br><br><br>approved<br>6 /22/2021   |
| The QUIKRETE Companies, LLC<br>Anthony Ferrante<br>500 Marathon Parkway<br>Lawrenceville GA 30046<br>anthony.ferrante@quikrete.com | Phone: (404) 634-9100<br>Cell: (800) 282-5828<br>Fax: (770) 237-2548<br><br>www.quikrete.com | <b>QUIKRETE 1101 CONCRETE MIX 80LB</b><br><br><br><br><br>approved<br>6 /22/2021 |

**618.02.01 GUARDRAIL OFFSET BLOCKS**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| Arizona Structural Laminators<br>Ginger Wiltbank<br>2000 W. Central Ave.<br>Eagar AZ 85925<br>gwiltbank@azglulam.com               | Phone: (928) 333-5501<br>Cell:<br>Fax: (928) 333-4403<br><br>www.azglulam.com                    | <b>Glue Laminated Wood</b> For use on w-beam and thrie-beam guardrails<br><br><br><br><br>approved<br>3 /10/2004   |
| Mondo Polymer Technologies, Inc.<br>Maggie Ellis<br>27620 State Rt. 7 / P.O. Box 250<br>Reno OH 45773<br>maggie@mondopolymer.com   | Phone: (888) 607-4790<br>Cell: (740) 376-9396<br>Fax: (740) 376-9960<br><br>www.mondopolymer.com | <b>GB14SH1 Composite Guardrail Blockout</b> 8". For use on Midwestern Guardrail installations.<br><br><br><br><br>approved<br>12/17/2018                                 |
| Mondo Polymer Technologies, Inc.<br>Maggie Ellis<br>27620 State Route 7 / P.O. Box 250<br>Reno OH 45773<br>maggie@mondopolymer.com | Phone: (888) 607-4790<br>Cell: (740) 376-9396<br>Fax: (740) 376-9960<br><br>www.mondopolymer.com | <b>GB14SH2 Composite Guardrail Block</b> 8". For use on Midwestern Guardrail installations.<br><br><br><br><br>approved<br>12/17/2018                                    |
| Mondo Polymer Technologies, Inc.<br>Maggie Ellis<br>27620 State Rt. 7 / P.O. Box 250<br>Reno OH 45773<br>maggie@mondopolymer.com   | Phone: (888) 607-4790<br>Cell: (740) 376-9396<br>Fax: (740) 376-9960<br><br>www.mondopolymer.com | <b>MGS14SH Composite Guardrail Blockout</b> 12". For use on Midwestern Guardrail installations.<br><br><br><br><br>approved<br>3 /27/2019                                |
| Mondo Polymer Technologies, Inc.<br>Maggie Ellis<br>27620 State Rt. 7 / PO Box 250<br>Reno OH 45773<br>maggie@mondopolymer.com     | Phone: (888) 607-4790<br>Cell: (740) 376-9396<br>Fax: (740) 376-9960<br><br>www.mondopolymer.com | <b>TB21SH Composite Guardrail Blockout</b> Usage permitted only when creating MGS transition or repairing existing thrie-beam.<br><br><br><br><br>approved<br>4 /1 /2020 |

**618.02.01 GUARDRAIL OFFSET BLOCKS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>                          |   |
|---|--|---|---|
| Trinity Highway Products, LLC<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net     | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.trinityhighway.com | <b>12in King MASH16 Composite Block</b> | 12". For use on Midwestern Guardrail installations.<br><br><br><br>approved<br>12/20/2021 |
| Trinity Highway Products, LLC<br>Chelsea Dunn<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>chelsea.dunn@trin.net | Phone: (214) 589-8056<br>Cell:<br>Fax:<br><br>www.trinityhighway.com | <b>8in King MASH16 Composite Block</b>  | 8". For use on Midwestern Guardrail installations.<br><br><br><br>approved<br>3/11/2021   |

**618.02.01a GUARDRAIL TERMINAL**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>                                   |  |
|--|--|--|--|
| Lindsay Transportation Solutions, LLC<br>Larry Savage<br>18135 Burke Street, Suite 100<br>Omaha NE 68022<br>larry.savage@lindsay.com | Phone: (402) 829-6800<br>Cell: (916) 474-9644<br>Fax: (402) 829-6834<br><br>www.lindsay.com/infrastructure | <b>MAX-Tension</b>                               | TANGENTIAL; MASH TL-3<br><br><br><br>approved<br>3/27/2019             |
| Lindsay Transportation Solutions, LLC<br>Larry Savage<br>18135 Burke Street, Suite 100<br>Omaha NE 68022<br>larry.savage@lindsay.com | Phone: (402) 829-6800<br>Cell: (916) 474-9644<br>Fax: (402) 829-6834<br><br>www.lindsay.com/infrastructure | <b>MAX-Tension</b>                               | MEDIAN; MASH TL-3<br><br><br><br>approved<br>3/27/2019                 |
| Road Systems Incorporated<br>Kaddo Kothmann<br>3616 Old Howard County Airport Road<br>Big Spring TX 79720<br>kaddo@basin-net.net     | Phone: (432) 263-2435<br>Cell: (432) 517-0697<br>Fax: (432) 267-4039<br><br>www.roadsystems.com            | <b>MSKT (MASH Sequentially Kinking Terminal)</b> | TANGENTIAL; MASH, TL-3 Compliant<br><br><br><br>approved<br>12/28/2016 |
| Road Systems, Inc.<br>Kaddo Kothmann<br>3616 Old Howard County Airport Road<br>Big Spring TX 79720<br>kaddo@basin-net.net            | Phone: (432) 263-2435<br>Cell: (432) 517-0697<br>Fax: (432) 267-4039<br><br>www.roadsystems.com            | <b>MFLEAT</b>                                    | FLARED; MASH TL-3<br><br><br><br>approved<br>9/17/2019                 |
| Trinity Highway Products, LLC<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net            | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.trinityhighway.com                                       | <b>SoftStop</b>                                  | TANGENTIAL; MASH, TL-3 Compliant<br><br><br><br>approved<br>7/2/2018   |

**619.02.01a GUIDEPOSTS (FLEXIBLE)**

| <i>Vendor Name / Address</i> | <i>Product Name</i> | <i>Remarks</i> |  |
|------------------------------|---------------------|----------------|--|
|------------------------------|---------------------|----------------|--|

**619.02.01a GUIDEPOSTS (FLEXIBLE)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>  |                        |
|---|---|---|------------------------|
| Carsonite Composites<br>Cynthia Young<br>19845 US Highway 76<br>Newberry SC 29108<br>cindy.young@valmont.com                | Phone: (800) 648-7916<br>Cell: (803) 940-1190<br>Fax: (803) 276-8940<br><br>www.carsonite.com | <b>Flexguard Post System</b><br>Type 2; standard surface and soil/ground mount options available  | approved<br>1/17/2013  |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com                          | <b>RT 360 HD BD Tub</b><br>Type 2; minimum embedment depth: 430 mm (17 inches); standard surface and surface/soil mount options available       | approved<br>10/5 /2008 |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com                          | <b>RT 360 HD Tub</b><br>Type 2; minimum embedment depth: 430 mm (17 inches); standard surface and surface/soil mount options available          | approved<br>10/5 /2008 |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com                          | <b>SH Barrier Replaceable</b><br>Type 2; minimum embedment depth: 430 mm (17 inches); standard surface and surface/soil mount options available | approved<br>10/5 /2008 |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com                          | <b>SH Dura Post</b><br>Type 2; minimum embedment depth: 430 mm (17 inches); standard surface and surface/soil mount options available           | approved<br>10/5 /2008 |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com                          | <b>SH K-Marker</b><br>Type 2; minimum embedment depth: 430 mm (17 inches); standard surface and surface/soil mount options available            | approved<br>10/5 /2008 |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com                          | <b>SH Tubular</b><br>Type 2; minimum embedment depth: 430 mm (17 inches); standard surface and surface/soil mount options available             | approved<br>10/5 /2008 |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                            | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com     | <b>FG 300 Complete Curb</b><br>MASH TL-3; Type 2; standard surface and soil/ground mount options available                                      | approved<br>6/19/2009  |

**619.02.01a GUIDEPOSTS (FLEXIBLE)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>  |                               |
|--|--|---|-------------------------------|
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com | <b>Phone:</b> (253) 284-8000<br><b>Cell:</b> (253) 284-8005<br><b>Fax:</b> (253) 284-8080<br><br>www.pexco.com | <b>FG 300 Model EFX</b><br><br>Type 2; standard surface and soil/ground mount options available           | <b>approved</b><br>6/19/2009  |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com | <b>Phone:</b> (253) 284-8000<br><b>Cell:</b> (253) 284-8005<br><b>Fax:</b> (253) 284-8080<br><br>www.pexco.com | <b>FG 300 Model PE</b><br><br>Type 2; standard surface and soil/ground mount options available            | <b>approved</b><br>10/15/1999 |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com | <b>Phone:</b> (253) 284-8000<br><b>Cell:</b> (253) 284-8005<br><b>Fax:</b> (253) 284-8080<br><br>www.pexco.com | <b>FG 300 Model UR</b><br><br>Type 2; standard surface and soil/ground mount options available            | <b>approved</b><br>10/15/1999 |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Ave. East<br>Tacoma WA 98424<br>craig.schulz@pexco.com   | <b>Phone:</b> (253) 284-8000<br><b>Cell:</b><br><b>Fax:</b> (253) 284-8080<br><br>www.pexco.com/traffic        | <b>Flexi-Guide FG 348 Ground Mount</b><br><br>Type XI sheeting is required.                               | <b>approved</b><br>9/17/2020  |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com | <b>Phone:</b> (253) 284-8000<br><b>Cell:</b> (253) 284-8005<br><b>Fax:</b> (253) 284-8080<br><br>www.pexco.com | <b>TSM Series</b>   | <b>approved</b><br>9/3/2014   |
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com         | <b>Phone:</b> (512) 218-9500<br><b>Cell:</b><br><b>Fax:</b> (512) 388-0417<br><br>www.shur-tite.com            | <b>Driveable Del</b><br><br>Type 2; standard surface and surface/soil mount options available             | <b>approved</b><br>4/30/2009  |
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com         | <b>Phone:</b> (512) 218-9500<br><b>Cell:</b><br><b>Fax:</b> (512) 388-0417<br><br>www.shur-tite.com            | <b>Shur-Flex Guardrail Clamp</b><br><br>Type 2; standard surface and surface/soil mount options available | <b>approved</b><br>4/30/2009  |
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com         | <b>Phone:</b> (512) 218-9500<br><b>Cell:</b><br><b>Fax:</b> (512) 388-0417<br><br>www.shur-tite.com            | <b>Shur-Tite Cable Barrier</b><br><br>Type 2; standard surface and soil/ground mount options available    | <b>approved</b><br>4/30/2009  |

**619.02.01a GUIDEPOSTS (FLEXIBLE)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |
|--|--|---|
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com                       | Phone: (512) 218-9500<br>Cell:<br>Fax: (512) 388-0417<br><br>www.shur-tite.com                 | <b>Socket Mt Del</b><br>Type 2; standard surface and surface/soil mount options available<br><br><b>approved</b><br>4 /30/2009          |
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com                       | Phone: (512) 218-9500<br>Cell:<br>Fax: (512) 388-0417<br><br>www.shur-tite.com                 | <b>Surface Mt Del</b><br>Type 2; standard surface and surface/soil mount options and angled mounts<br><br><b>approved</b><br>4 /30/2009 |
| Three D Traffic Works<br>Frank Dvoracek<br>430 North Varney Street<br>Burbank CA 91502<br>sales@trafficwks.com | Phone: (877) 843-9757<br>Cell: (323) 849-1316<br>Fax: (818) 841-5096<br><br>www.trafficwks.com | <b>TD 5500 Earthflex Del</b><br>Type 2; soil mount only<br><br><b>approved</b><br>12/3 /2002  |

**619.02.01b OBJECT MARKERS (FLEXIBLE, TYPE 2)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com | <b>RT 360 HD Bolt Down</b><br>Type 2; standard surface and surface/soil mount options available; minimum embedment depth: 430 mm (17 inches)<br><br><b>approved</b><br>10/5 /2008    |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com | <b>RT 360 HD Tubular</b><br>Type 2; standard surface and surface/soil mount options available; minimum embedment depth: 430 mm (17 inches)<br><br><b>approved</b><br>10/5 /2008      |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com | <b>SH Dura Post 36"</b><br>Type 2; standard surface and surface/soil mount options available; minimum embedment depth: 430 mm (17 inches)<br><br><b>approved</b><br>10/5 /2008       |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com | <b>SH K-Marker Series</b><br>Type 2; standard surface and soil/ground mount options available<br><br><b>approved</b><br>10/5 /2008   |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com | <b>SH Replaceable Barrier</b><br>Type 2; standard surface and surface/soil mount options available; minimum embedment depth: 430 mm (17 inches)<br><br><b>approved</b><br>10/5 /2008 |

**619.02.01b OBJECT MARKERS (FLEXIBLE, TYPE 2)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |                               |
|---|--|--|-------------------------------|
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | <b>SH Tubular</b><br>Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com                                | Type 2; standard surface and soil/ground mount options available             | <b>approved</b><br>10/5 /2008 |
| Flexstake Incorporated<br>Robert K. Hughes, Jr.<br>2150 Andrea Lane #C<br>Ft Meyers FL 33912<br>jim@flexstake.com           | <b>BD Marker Round</b><br>Phone: (800) 348-9839<br>Cell: (239) 481-3539<br>Fax: (239) 482-3539<br><br>www.flexstake.com  | Type 2; standard surface and surface/soil mount options available            | <b>approved</b><br>6 /1 /1994 |
| Flexstake Incorporated<br>Robert K. Hughes, Jr.<br>2150 Andrea Lane #C<br>Ft Meyers FL 33912<br>jim@flexstake.com           | <b>HM Marker Round</b><br>Phone: (800) 348-9839<br>Cell: (239) 481-3539<br>Fax: (239) 482-3539<br><br>www.flexstake.com  | Type 2; standard surface and surface/soil mount options available            | <b>approved</b><br>6 /1 /1994 |
| Flexstake Incorporated<br>Robert K. Hughes, Jr.<br>2150 Andrea Lane #C<br>Ft Meyers FL 33912<br>jim@flexstake.com           | <b>T1 Marker Round</b><br>Phone: (800) 348-9839<br>Cell: (239) 481-3539<br>Fax: (239) 482-3539<br><br>www.flexstake.com  | Type 2; standard surface and surface/soil mount options available            | <b>approved</b><br>6 /1 /1994 |
| Flexstake Incorporated<br>Robert K. Hughes, Jr.<br>2150 Andrea Lane #C<br>Ft Meyers FL 33912<br>jim@flexstake.com           | <b>T2 Marker Round</b><br>Phone: (800) 348-9839<br>Cell: (239) 481-3539<br>Fax: (239) 482-3539<br><br>www.flexstake.com  | Type 2; standard surface and surface/soil mount options available            | <b>approved</b><br>6 /1 /1994 |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                            | <b>FG 300 Complete Curb</b><br>Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com | MASH TL-3; Type 2; standard surface and surface/soil mount options available | <b>approved</b><br>6 /19/2009 |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                            | <b>FG 300 Model PE</b><br>Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | Type 2; standard surface and surface/soil mount options available            | <b>approved</b><br>6 /19/2009 |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                            | <b>FG 300 Model UR</b><br>Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | Type 2; standard surface and surface/soil mount options available            | <b>approved</b><br>6 /19/2009 |

**619.02.01b OBJECT MARKERS (FLEXIBLE, TYPE 2)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |
|--|--|---|
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com               | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>FG 300 Turn Pike Curb</b><br>MASH TL-3; Type 2; standard surface and surface/soil mount options available<br><br><b>approved</b><br>6 /19/2009 |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com               | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>Type K Island Marker</b><br>Type 2; standard surface and surface/soil mount options available<br><br><b>approved</b><br>9 /13/2007             |
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com                       | Phone: (512) 218-9500<br>Cell:<br>Fax: (512) 388-0417<br><br>www.shur-tite.com                 | <b>Shur-Flex Driveable</b><br>Type 2; standard surface and surface/soil mount options available<br><br><b>approved</b><br>2 /2 /2010              |
| Three D Traffic Works<br>Frank Dvoracek<br>430 North Varney Street<br>Burbank CA 91502<br>sales@trafficwks.com | Phone: (877) 843-9757<br>Cell: (323) 849-1316<br>Fax: (818) 841-5096<br><br>www.trafficwks.com | <b>TD 5215 K Marker</b><br>Type 2; standard surface and surface/soil mount options available<br><br><b>approved</b><br>12/3 /2002                 |

**623.02.08 SERVICE PEDESTALS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>  |
|---|--|---|
| Milbank Manufacturing Company<br>Dave Stipe<br>4801 Deramus Avenue<br>Kansas City MO 64120<br>dstipe@milbankmfg.com       | Phone: (660) 463-0827<br>Cell: (714) 743-0712<br>Fax:<br><br>www.milbankmfg.com                        | <b>Metered Service Pedestals</b><br><br><b>approved</b><br>1 /15/2002     |
| Myers Power Products<br>Diana Grootonk<br>2950 East Philadelphia Street<br>Ontario CA 91761<br>quotes-PEDS@myerspower.com | Phone: (909) 923-1800<br>Cell: (949) 375-3399<br>Fax: (909) 923-1806<br><br>www.myerspowerproducts.com | <b>Service Pedestals</b><br>+UPS/BBS<br><br><b>approved</b><br>9 /5 /2000 |
| Tesco Controls Incorporated<br>Curt Vasey<br>8440 Florin Road<br>Sacramento CA 95828<br>cvasey@tescocontrols.com          | Phone: (916) 395-8800<br>Cell: (916) 765-0523<br>Fax: (916) 403-0013<br><br>www.tescocontrols.com      | <b>Tescoflex Service Pedestals</b><br><br><b>approved</b><br>11/21/2002   |

**623.02.12c HIGH MAST HEAD FRAME ASSEMBLY**

| <i>Vendor Name / Address</i> | <i>Product Name</i> | <i>Remarks</i> |
|------------------------------|---------------------|----------------|
|------------------------------|---------------------|----------------|



**623.02.30e LOOP DETECTOR SEALANT**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>  |
|---|---|---|
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com            | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br><br>www.crafco.com      | <b>272 Loop Detector</b><br>Rubberized asphalt material<br><br><br><br><br><b>approved</b><br>8 / 5 / 1998    |
| Durant Performance Coating, Inc.<br>Al Losanno<br>112 Railroad Street<br>Revere MA 02151<br>alosanno@durantcorp.com | Phone: (800) 420-0021<br>Cell: (781) 289-1400<br>Fax: (781) 289-1405<br><br>www.durantcorp.com  | <b>Stat-a-Flex Polyester Loop</b><br>Polyester material<br><br><br><br><br><b>approved</b><br>11/19/1996      |
| RAI Products Incorporated<br>John Rosenblatt Jr.<br>PO Box 240772<br>Charlotte NC 28224<br>john@raiproducts.com     | Phone: (704) 525-1852<br>Cell: (704) 904-1481<br>Fax: (704) 525-1859<br><br>www.raiproducts.com | <b>Perm Sealer 974 Nitrile</b><br>Nitrile rubber material<br><br><br><br><br><b>approved</b><br>12/19/1996    |
| RAI Products Incorporated<br>John Rosenblatt Jr.<br>PO Box 240772<br>Charlotte NC 28224<br>john@raiproducts.com     | Phone: (704) 525-1852<br>Cell: (704) 904-1481<br>Fax: (704) 525-1859<br><br>www.raiproducts.com | <b>Pro Seal 6006 Polyester</b><br>Polyester material<br><br><br><br><br><b>approved</b><br>12/19/1996         |
| Reed & Graham Company<br>Peter Fitzpatrick<br>690 Sunol Street<br>San Jose CA 95126<br>peter@rginc.com              | Phone: (408) 287-1400<br>Cell: (408) 421-2833<br>Fax: (408) 294-3696<br><br>www.rginc.com       | <b>Overkote Loop Filler</b><br>Asphaltic emulsion material<br><br><br><br><br><b>approved</b><br>8 / 5 / 1998 |

**623.02.37 DYNAMIC MESSAGE SIGNS**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |
|--|--|---|
| Daktronics Incorporated<br>Kyle Niemeyer<br>201 Daktronics Dr.<br>Brookings SD 57006<br>kyle.niemeyer@daktronics.com | Phone: (605) 692-0200<br>Cell: (970) 413-4978<br>Fax: (605) 697-4700<br><br>www.daktronics.com | <b>Dynamic Message Signs</b><br>Type 1 and Type 2<br><br><br><br><br><b>approved</b><br>1 / 7 / 2004  |
| SES America, Inc.<br>Chad Bondemann<br>720 Washington St.<br>Pembroke MA 02359<br>cbondemann@sunrisesesatech.com     | Phone: (781) 826-9706<br>Cell: (781) 857-8819<br>Fax:<br><br>www.sunrisesesatech.com           | <b>Dynamic Message Signs</b><br>Type 1 and Type 2<br><br><br><br><br><b>approved</b><br>6 / 11 / 2020 |

**623.03.01 TRAFFIC SIGNALS**

| <i>Vendor Name / Address</i> | <i>Product Name</i> | <i>Remarks</i> |
|------------------------------|---------------------|----------------|
|------------------------------|---------------------|----------------|



**623.03.01 TRAFFIC SIGNALS**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>   |
|---|---|--|
| Leotek Electronics USA, LLC<br>Gail Lawrence<br>1955 Lundy Avenue<br>San Jose CA 95131<br>gail.lawrence@leotek.com              | Phone: (903) 935-2695<br>Cell: (903) 399-8055<br>Fax: (408) 518-8128<br><br>www.leotek.com      | <b>TSL-12R-LX-IL6-A1-P3</b><br><br>Must be Intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications<br><br><b>approved</b><br>4 /2 /2015                                  |
| Leotek Electronics USA, LLC<br>Gail Lawrence<br>1955 Lundy Avenue<br>San Jose CA 95131<br>gail.lawrence@leotek.com              | Phone: (903) 935-2695<br>Cell: (903) 399-8055<br>Fax: (408) 518-8128<br><br>www.leotek.com      | <b>TSL-12YA-IL6-A1-P3</b><br><br>Must be Intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications<br><br><b>approved</b><br>9 /25/2017                                    |
| Leotek Electronics USA, LLC<br>Gail Lawrence<br>1955 Lundy Avenue<br>San Jose CA 95131<br>gail.lawrence@leotek.com              | Phone: (903) 935-2695<br>Cell: (903) 399-8055<br>Fax: (408) 518-8128<br><br>www.leotek.com      | <b>TSL-12Y-LX-IL6-A1-P3</b><br><br>Must be Intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications<br><br><b>approved</b><br>4 /2 /2015                                  |
| Leotek Electronics USA, LLC<br>Gail Lawrence<br>1955 Lundy Avenue<br>San Jose CA 95131<br>gail.lawrence@leotek.com              | Phone: (408) 380-1788<br>Cell: (903) 935-8055<br>Fax: (408) 518-8128<br><br>www.leotek.com      | <b>TSL-PED-16-DIL 16" LED<br/>FH/MP Indication</b><br><br>Must be intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications<br><br><b>approved</b><br>4 /6 /2010           |
| Leotek Electronics USA, LLC<br>Gail Lawrence<br>1955 Lundy Avenue<br>San Jose CA 95131<br>gail.lawrence@liteon.com              | Phone: (408) 380-1788<br>Cell: (903) 935-8055<br>Fax: (408) 518-8128<br><br>https://leotek.com/ | <b>TSL-PED-16-SPC-V1</b><br><br>Must be intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications. Replaced model TSL-PED-16-CIL-P1.<br><br><b>approved</b><br>9 /30/2021  |
| TraStar Incorporated<br>Jennifer Murray<br>860 North Dorothy Drive Suite 600<br>Richardson TX 75081<br>jenniferm@trastarusa.com | Phone: (972) 480-0888<br>Cell:<br>Fax: (972) 480-8884<br><br>www.trastarusa.com                 | <b>JXC-300HFT Series LED<br/>Vehicular Lamps</b><br><br>Must be intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications<br><br><b>approved</b><br>11/6 /2012             |
| TraStar Incorporated<br>Jennifer Murray<br>860 North Dorothy Drive Suite 600<br>Richardson TX 75081<br>jenniferm@trastarusa.com | Phone: (972) 480-0888<br>Cell:<br>Fax: (972) 480-8884<br><br>www.trastarusa.com                 | <b>JXJ300-07T</b><br><br>Must be intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications<br><br><b>approved</b><br>11/6 /2012  |
| TraStar Incorporated<br>Jennifer Murray<br>860 North Dorothy Drive Suite 600<br>Richardson TX 75081<br>jenniferm@trastarusa.com | Phone: (972) 480-0888<br>Cell:<br>Fax: (972) 480-8884<br><br>www.trastarusa.com                 | <b>JXM 400 VIE Series<br/>Countdown Pedestrian<br/>Lamps</b><br><br>Must be intertek ETL verified to be compliant to the most current ITE VTCSH-LED or PTCSI-LED specifications<br><br><b>approved</b><br>11/6 /2012 |

**623.03.15 SIGN LIGHTING FIXTURES**

| <b>Vendor Name / Address</b> | <b>Product Name</b> | <b>Remarks</b> |
|------------------------------|---------------------|----------------|
|------------------------------|---------------------|----------------|

**623.03.15 SIGN LIGHTING FIXTURES**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>                                  |
|--|--|---|
| Lumi Trak, Inc.<br>Jeff Harper<br>PO Box 158<br>Shrewsbury PA 17361<br>jeff@lumitrak.com | Phone: (717) 235-2863<br>Cell: (717) 779-8628<br>Fax: (717) 235-5076<br>www.lumitrak.com | <b>LT2000 SL120MOD</b><br>approved<br>9/25/2017 |

**623.03.22 LUMINAIRE RETRIEVAL SYSTEM**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>                             |
|---|--|--|
| Lumi Trak Incorporated<br>George Townsend<br>PO Box 158<br>Shrewsbury PA 17361<br>iris@lumitrak.com | Phone: (717) 235-2863<br>Cell: (717) 818-8203<br>Fax: (717) 235-5076<br>www.lumitrak.com | <b>Lumi Trak</b><br>approved<br>10/11/2000 |

**623.05.26 RED LIGHT DETECTORS**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>                                     |
|--|--|--|
| McCain Incorporated<br>Carol Jarvis-Murphy<br>2365 Oak Ridge Way<br>Vista CA 92081<br>cmurphy@mccain-inc.com | Phone: (760) 734-5027<br>Cell: (750) 727-8100<br>Fax: (760) 597-7108<br>www.mccain-inc.com | <b>Red Light Detector</b><br>approved<br>7/16/2003 |

**625.02.02 MARKERS (REFLECTIVE ON CONCRETE BARRIER RAILS)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| Artuk<br>Gregg Schueler<br>1200 Abbott Drive<br>Elgin IL 60123<br>sales@artukinc.com           | Phone: (847) 841-7050<br>Cell: (847) 707-4698<br>Fax: (847) 488-9154<br>https://artukinc.com | <b>FB33</b><br>approved<br>2/2/1993  |
| Artuk<br>Gregg Schueler<br>1200 Abbott Drive<br>Elgin IL 60123<br>sales@artukinc.com           | Phone: (847) 841-7050<br>Cell: (847) 707-4698<br>Fax: (847) 488-9154<br>https://artukinc.com | <b>FB34</b><br>approved<br>12/28/2016  |
| Artuk<br>Gregg Schueler<br>1200 Abbott Drive<br>Elgin IL 60123<br>sales@artukinc.com           | Phone: (847) 841-7050<br>Cell: (847) 707-4698<br>Fax: (847) 488-9154<br>https://artukinc.com | <b>FT - Flex Tab</b><br>approved<br>12/28/2016   |
| Irwin Hodson Company<br>Gary Johnson<br>2838 SE 9th Ave<br>Portland OR 97202<br>garyj@ihco.com | Phone: (503) 419-4624<br>Cell: (503) 709-6608<br>Fax: (503) 239-5304<br>www.irwinhodson.com  | <b>A-Shape Highway Traffic Reflector</b><br>Epoxy shall be used for fastening the reflective marker to the top of the concrete barrier rail. Alt contacts: Mark McDonald (503) 419-4629 markmc@ihco.com or Nick McDonald (503) 572-0012 nickmc@ihco.com.<br>approved<br>5/7/2015 |

**625.02.02 MARKERS (REFLECTIVE ON CONCRETE BARRIER RAILS)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |   |
|--|--|---|---|
| Irwin Hodson Company<br>Gary Johnson<br>2838 SE 9th Ave<br>Portland OR 97202<br>garyj@ihco.com                 | Phone: (503) 419-4624<br>Cell: (503) 709-6608<br>Fax: (503) 239-5304<br><br>www.ihco.com       | <b>Barrier Traffic Reflector Series</b>                   | Alt contacts: Mark McDonald (503) 419-4629<br>markmc@ihco.com or Nick McDonald (503) 572-0012<br>nickmc@ihco.com. |
|  |  |   | approved<br>9/3/2013  |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com               | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>DAPCO Straight Guardrail Reflector Plates</b>          | Type II; standard surface and soil/ground mount options available   |
|  |  |   | approved<br>1/9/1995  |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com               | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>PCBM 12H High Impact</b>                               | Type II; standard surface and soil/ground mount options available   |
|  |  |   | approved<br>11/3/2009   |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com               | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>PCBM T12H High Impact</b>                              | Type II; standard surface and soil/ground mount options available   |
|  |  |   | approved<br>11/3/2009   |
| RetroFlex, LLC<br>Terry Anest<br>6185 Element Lane<br>Roseville CA 95747<br>tanest@retroflexllc.com            | Phone: (916) 305-8687<br>Cell: (916) 305-8687<br>Fax:<br><br>www.retroflexllc.com              | <b>RF3N1 RetroFlex Reflector</b>                          |   |
|  |  |   | approved<br>6/11/2020   |
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com                       | Phone: (512) 218-9500<br>Cell:<br>Fax:<br><br>www.shur-tite.com                                | <b>Trafco CTB16 Concrete Barrier Wall Flex Delineator</b> | Do not use Type III sheeting  |
|  |  |   | approved<br>12/10/2020  |
| SHUR-TITE Products<br>Gary Champ<br>P.O. Box 965<br>Hutto TX 78634<br>gary@shur-tite.com                       | Phone: (512) 218-9500<br>Cell:<br>Fax:<br><br>www.shur-tite.com                                | <b>Trafco CTB3 Concrete Barrier Wall Flex Delineator</b>  | Do not use Type III sheeting  |
|  |  |   | approved<br>12/10/2020  |
| Three D Traffic Works<br>Frank Dvoracek<br>430 North Varney Street<br>Burbank CA 91502<br>sales@trafficwks.com | Phone: (877) 843-9757<br>Cell: (323) 849-1316<br>Fax: (818) 841-5096<br><br>www.trafficwks.com | <b>TD 9300 Roadguide</b>                                  |   |
|  |  |   | approved<br>12/3/2002   |



**625.02.04 IMPACT ATTENUATOR (TEMPORARY)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| Trinity Highway Products, LLC<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.trinityhighway.com | <b>QuadGuard Elite M10</b><br>MASH TL-3; 24 and 69 inch widths approved; Install per manufacturer's recommendations.<br><br><b>approved</b><br>3/11/2021 |
| Trinity Highway Products, LLC<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.TrinityHighway.com | <b>QuadGuard M Wide</b><br>MASH TL-3; Install per manufacture recommendations.<br><br><b>approved</b><br>3/11/2021                                       |
| Trinity Highway Products, LLC<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.trinityhighway.com | <b>QuadGuard M10</b><br>MASH TL-3. Install per manufacture recommendations.<br><br><b>approved</b><br>3/27/2019  |

**625.02.05 IMPACT ATTENUATOR (TRUCK MOUNTED)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| Gregory Industries, Inc.<br>Eric Smith<br>4100 13th Street SW<br>Canton OH 44710<br>esmith@gregoryhighway.com                     | Phone: (330) 477-4800<br>Cell:<br>Fax: (330) 477-0626<br><br>www.gregoryhighway.com                | <b>TTMA-200 Trailer Truck Mounted Attenuator</b><br>MASH TL-3. Trailer Mounted - Min. support vehicle weight of 10,000lbs (4,535.9kg), Max. support vehicle weight: unlimited. Unit selected must have a manufacturer recommended installation for the design speed specified in the bid item.<br><br><b>approved</b><br>9/17/2019 |
| Traffix Devices, Inc.<br>Cary W. LeMonds<br>2267 East Crimson Ridge Drive<br>Saint George UT 84790<br>CLeMonds@TraffixDevices.com | Phone: (801) 979-7099<br>Cell: (949) 361-5663<br>Fax: (949) 573-9290<br><br>www.traffixdevices.com | <b>Scorpion II TA</b><br>MASH TL-3, trailer-mounted<br><br><b>approved</b><br>4/1/2020   |
| Traffix Devices, Inc.<br>Cary W. LeMonds<br>2267 East Crimson Ridge Drive<br>Saint George UT 84790<br>CLeMonds@TraffixDevices.com | Phone: (801) 979-7099<br>Cell: (949) 361-5663<br>Fax: (949) 573-9290<br><br>www.traffixdevices.com | <b>Scorpion II TMA</b><br>MASH TL-3<br><br><b>approved</b><br>1/27/2019  |
| Trinity Highway Products, LLC<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison NV 75001<br>paul.kruse@trin.net         | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.trinityhighway.com                               | <b>SMT</b><br>MASH TL-3, trailer mounted<br><br><b>approved</b><br>9/17/2020   |
| Trinity Highway Products, LLC<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison NV 75001<br>paul.kruse@trin.net         | Phone: (916) 644-9102<br>Cell:<br>Fax:<br><br>www.trinityhighway.com                               | <b>SS180M</b><br>MASH TL-3<br><br><b>approved</b><br>9/17/2020   |

**625.02.05 IMPACT ATTENUATOR (TRUCK MOUNTED)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| Verdegro USA, LLC<br>Herman Harderwijk<br>1700 W. Irving Park Road, Suite 302<br>Chicago IL 60613<br>sales@verdegro.com | Phone: (786) 408-5709<br>Cell:<br>Fax: (786) 431-3097<br><br>www.BLADE-TMA.com and www.verdegro. | <b>BLADE TMA</b><br>MASH TL-3. Alt# is +31615839389.<br><br>approved<br>7 /22/2019 |

**625.02.06 ALTERNATIVE PORTABLE BARRIER RAIL**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>  |
|---|---|---|
| Easi-Set Worldwide<br>Moffette Tharpe<br>P.O. Box 400<br>Midland VA 22728<br>mtharpe@easiset.com                        | Phone: (484) 256-0001<br>Cell: (540) 439-8911<br>Fax: (540) 439-2541<br><br>www.easiset.com and www.jjhooks.com | <b>J-J Hooks Portable Concrete Barrier Rail</b><br>MASH TL-3; Freestanding, Pinned, or Bolted.<br><br>approved<br>4 /1 /2020          |
| Hill & Smith, Inc.<br>Cecil Brown<br>987 Buckeye Park Road<br>Columbus OH 43207<br>cecil.brown@hillandsmith.com         | Phone: (614) 340-6294<br>Cell:<br>Fax:<br><br>www.hillandsmith.com  | <b>ZoneBloc +</b><br>MASH TL-3 compliant. Install freestanding or pinned per manufactures requirements.<br><br>approved<br>1 /11/2022 |
| Hill and Smith, Inc.<br>Cecil Brown<br>987 Buckeye Park Road<br>Columbus OH 43207<br>cecil.brown@hillandsmith.com       | Phone: (614) 340-6294<br>Cell:<br>Fax:<br><br>www.hillandsmith.com  | <b>Zoneguard Steel Barrier</b><br>MASH TL-3; install per manufacturer's requirements.<br><br>approved<br>12/31/2019                   |
| Trinity Highway Products, LLC<br>Jim Thonn<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>jim.thonn@trin.net | Phone: (312) 705-8424<br>Cell:<br>Fax:<br><br>www.trinityhighway.com  | <b>HighwayGuard</b><br>MASH TL-3; install per manufacturer's recommendations.<br><br>approved<br>9 /20/2021                           |

**625.02.07 PORTABLE BEACON LIGHT SYSTEM**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| K&K Systems Incorporated<br>Alice Bingham<br>687 Palmetto Road<br>Tupelo MS 38801<br>ali@k-k-systems.com | Phone: (888) 414-3003<br>Cell: (662) 566-2025<br>Fax: (662) 566-7123<br><br>www.k-k-systems.com | <b>Safety Beacon Light</b><br><br><br>approved<br>1 /6 /1998 |

**625.03.03 SIGN SUPPORT SYSTEM**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| Marketing Displays International<br>Eric Larson<br>38271 W. 12 Mile Road<br>Farmington Hills MI 48331<br>tcpsales@mdiworldwide.com | Phone: (800) 521-6776<br>Cell:<br>Fax: (248) 488-5700<br><br>www.mditraficcontrol.com | <b>50SM-NS</b><br>MASH TL-3. Roll-up signs only.<br><br>approved<br>9 /17/2020 |

**625.03.03 SIGN SUPPORT SYSTEM**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>                                    |                                |
|---|---|---|--------------------------------|
| Pacific Safety dba Dicke Safety<br>Michael Burke<br>1845 Anunsen St. NE<br>Salem OR 97301<br>mike@dicketool.com | Phone: (206) 818-9277<br>Cell: (800) 333-5641<br>Fax: (800) 695-6054<br><br>www.dicketool.com | <b>UF2000w</b>                                    | MASH TL-3. Roll-up signs only. |
|   |   |   | <b>approved</b><br>12/10/2020  |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                   | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br><br>www.plasticade.com               | <b>Plasticade SS300 Compact Sign Stand</b>        | MASH TL-3. Roll-up signs only. |
|   |   |   | <b>approved</b><br>9/17/2020   |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                   | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br><br>www.plasticade.com               | <b>Plasticade SS300A Compact Sign Stand</b>       | MASH TL-3. Roll-up signs only. |
|   |   |   | <b>approved</b><br>9/17/2020   |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                   | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br><br>www.plasticade.com               | <b>Plasticade SS310 Sign Stand</b>                | MASH TL-3. Roll-up signs only. |
|   |   |   | <b>approved</b><br>9/17/2020   |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                   | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br><br>www.plasticade.com               | <b>Plasticade SS340A Double Spring Sign Stand</b> | MASH TL-3. Roll-up signs only. |
|   |   |   | <b>approved</b><br>9/17/2020   |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                   | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br><br>www.plasticade.com               | <b>Plasticade SS410A Springless Sign Stand</b>    | MASH TL-3. Roll-up signs only. |
|   |   |   | <b>approved</b><br>9/17/2020   |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                   | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br><br>www.plasticade.com               | <b>Plasticade SS420A Double Spring Sign Stand</b> | MASH TL-3                      |
|   |   |   | <b>approved</b><br>9/17/2020   |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                   | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br><br>www.plasticade.com               | <b>Plasticade SS520 "Big Dog" Sign Stand</b>      | MASH TL-3. Roll-up signs only. |
|   |   |   | <b>approved</b><br>9/17/2020   |

**625.03.03 SIGN SUPPORT SYSTEM**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>  |
|--|---|---|
| Traffix Devices, Inc.<br>Cary LeMonds<br>160 Avenida La Pata<br>San Clemente CA 92673<br>clemonds@traffixdevices.com | Phone: (801) 979-7099<br>Cell:<br>Fax: (949) 573-9290<br><br>www.traffixdevices.com | <b>Zephyr Portable Stand</b><br>MASH TL-3. Must conform to section 716. Dibond substrate is allowed only with stands specified by FHWA letters of acceptance. |

approved  
3/22/2000

**625.03.04 BARRICADES**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>  |
|--|---|---|
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com               | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com           | <b>Barricade</b><br>Type 3B; with or without lights                                   |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                  | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax: (847) 966-8074<br><br>www.plasticade.com      | <b>Plasticade Angle Iron Type III Barricade</b><br>Type 3                             |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                  | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax: (847) 966-8074<br><br>www.plasticade.com      | <b>Plasticade Telespar Type III Barricade</b><br>Type 3                               |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                  | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax: (847) 966-8074<br><br>www.plasticade.com      | <b>Sentinel</b><br>Type 3   |
| PSS<br>Benjamin Gascoigne<br>2444 Baldwin Road<br>Cleveland OH 44104<br>bwg1@PSS-Innovations.com               | Phone: (800) 662-6338<br>Cell: (216) 658-7556<br>Fax: (216) 231-2702<br><br>www.PSS-Innovations.com | <b>Anchor Mast Barricade</b><br>Type 3; with or without lights                        |
| PSS<br>Benjamin Gascoigne<br>2444 Baldwin Road<br>Cleveland OH 44104<br>bwg1@pss-innovations.com               | Phone: (800) 662-6338<br>Cell: (216) 658-7556<br>Fax: (216) 231-2702<br><br>pss-innovations.com     | <b>LaneGard 3</b><br>MASH TL-3; Type 3  |
| Three D Traffic Works<br>Frank Dvoracek<br>430 North Varney Street<br>Burbank CA 91502<br>sales@trafficwks.com | Phone: (877) 843-9757<br>Cell: (323) 849-1316<br>Fax: (818) 841-5097<br><br>www.trafficwks.com      | <b>TD 2300M</b><br>MASH TL-3; Type I and Type II, with or without lights and/or sign. |

approved  
11/5/2009

approved  
12/31/2012

approved  
12/31/2012

approved  
2/21/2007

approved  
5/5/2010

approved  
6/11/2020

approved  
12/10/2020

**627.02.01 THERMOPLASTIC SIGN PANELS**

| <i>Vendor Name / Address</i>                 | <i>Product Name</i>         | <i>Remarks</i>         |
|--|-----------------------------|------------------------|
| No Vendors at this Time<br>***<br>***<br>*** | Phone: ***<br>Cell:<br>Fax: | approved<br>11/4 /2008 |

**630.02.01 HEADLIGHT GLARE SCREENS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>   |
|---|---|--|
| Carsonite Composites Int'l<br>Cynthia Young<br>19845 US Highway 76<br>Newberry SC 29108<br>cindy.young@valmont.com          | Phone: (800) 648-7916<br>Cell: (803) 940-1190<br>Fax: (803) 276-8940<br>www.carsonite.com | <b>Modular Guidance System</b><br>approved<br>10/1 /2008         |
| Energy Absorption Systems, Inc.<br>Paul Kruse<br>15601 Dallas Parkway, Suite 525<br>Addison TX 75001<br>paul.kruse@trin.net | Phone: (916) 644-9102<br>Cell:<br>Fax:<br>www.TrinityHighway.com                          | <b>Glare Screen System</b><br>approved<br>7 /31/1996             |
| Flexstake Incorporated<br>Robert K. Hughes, Jr.<br>2150 Andrea Lane #C<br>Ft Meyers FL 33912<br>jim@flexstake.com           | Phone: (800) 348-9839<br>Cell: (239) 481-3539<br>Fax: (239) 482-3539<br>www.flexstake.com | <b>Glare Screen System</b><br>approved<br>7 /31/1996             |
| Plasticade<br>Henry Ross<br>100 Howard Avenue<br>Des Plaines IL 60018<br>hross@plasticade.com                               | Phone: (800) 772-0355<br>Cell: (773) 294-4942<br>Fax:<br>www.plasticade.com               | <b>Plasticade Modular Glare Screen</b><br>approved<br>6 /11/2020 |

**632.03.05 RETROREFLECTOMETERS**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br>https://www.ennisflintamericas.com/ | <b>LTL-2000 discontinuing</b><br>10/08 LTL 2000 Geometry Retroreflectometer was discontinued but still qualifies<br>approved<br>6 /1 /1999 |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br>https://www.ennisflintamericas.com/ | <b>LTL-X 30 Meter Geometry</b><br>approved<br>6 /1 /1999   |

**632.03.05 RETROREFLECTOMETERS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>  |
|---|---|---|
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com          | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>LTL-X Mark II</b><br><br><br><br><br>approved<br>9 /25/2017  |
| Mirolux Products Incorporated<br>William Kaiser<br>12571 S. Deer Canyon Lane<br>Draper UT 84020-3105<br>sales@miroluxproducts.com | Phone: (801) 718-7089<br>Cell:<br>Fax: (801) 571-3394<br><br>www.miroluxproducts.com                            | <b>Mirolux Ultra 30</b><br><br><br><br><br>approved<br>12/26/1999   |
| RoadVista<br>Eric Nelson<br>9925 Carroll Canyon Road<br>San Diego CA 92131<br>enelson@roadvista.com                               | Phone: (858) 279-6044<br>Cell: (800) 637-2758<br>Fax: (858) 576-9286<br><br>www.roadvista.com                   | <b>LaserLux CEN 30</b><br><b>LaserLux CEN 30 Mobile</b><br>10/08 MX 30 Retroreflectometer was discontinued but still qualifies; 12/16 CEN 30 both the mobile and portable units have been discontinued but still qualify.<br>approved<br>12/5 /2016 |
| RoadVista<br>Eric Nelson<br>9925 Carroll Canyon Road<br>San Diego CA 92131<br>enelson@roadvista.com                               | Phone: (858) 279-6044<br>Cell: (800) 637-2758<br>Fax: (858) 576-9286<br><br>www.roadvista.com                   | <b>LaserLux G7 Mobile</b><br><br><br><br><br>approved<br>9 /25/2017   |
| RoadVista<br>Eric Nelson<br>9925 Carroll Canyon Road<br>San Diego CA 92131<br>enelson@roadvista.com                               | Phone: (858) 279-6044<br>Cell: (800) 637-2758<br>Fax: (858) 576-9286<br><br>www.roadvista.com                   | <b>StripeMaster Series I</b><br><br><br><br><br>approved<br>5 /27/2010  |
| RoadVista<br>Eric Nelson<br>9925 Carroll Canyon Road<br>San Diego CA 92131<br>enelson@roadvista.com                               | Phone: (858) 279-6044<br>Cell: (800) 637-2758<br>Fax: (858) 576-9286<br><br>www.roadvista.com                   | <b>StripeMaster Series II</b><br><br><br><br><br>approved<br>5 /27/2010   |

**633.02.01 PAVEMENT MARKERS (NON-REFLECTIVE, PERMANENT)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| Alpine Products<br>Bart Farrar<br>550 3rd Street SW, Building C<br>Auburn WA 98001<br>bart@alpinemarkings.com        | Phone: (253) 351-9828<br>Cell:<br>Fax: (253) 735-6303<br><br>www.alpinemarkings.com            | <b>DDOT ABS</b><br><br><br><br><br>100 mm (4") round<br>approved<br>6 /2 /1999 |
| Apex Universal Incorporated<br>Janet Yang<br>11033 Forest Place<br>Santa Fe Springs CA 90670<br>sales@apexmarker.com | Phone: (562) 944-8878<br>Cell: (562) 879-6888<br>Fax: (562) 944-2298<br><br>www.apexmarker.com | <b>929 ABS</b><br><br><br><br><br>100 mm (4") round<br>approved<br>6 /1 /1999  |



**633.02.02 PAVEMENT MARKERS (REFLECTIVE, PERMANENT)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| Ray-O-Lite A Division of Pac-Tec Inc<br>Mary Haddad<br>5825 N. Sam Houston Parkway W, Ste. 220<br>Houston TX 77086<br>customerservice@rayolite.com | Phone: (800) 848-7025<br>Cell: (281) 617-2240<br>Fax: (281) 583-1506<br><br>www.rayolite.com | <b>AA</b><br>100 mm x 100 mm (4"X4")<br><br><br><br><br>approved<br>6 /1 /1999                 |
| Ray-O-Lite A Division of Pac-Tec Inc<br>Mary Haddad<br>5825 N. Sam Houston Parkway W, Ste. 220<br>Houston TX 77086<br>customerservice@rayolite.com | Phone: (800) 848-7025<br>Cell: (281) 617-2240<br>Fax: (281) 583-1506<br><br>www.rayolite.com | <b>ARC</b><br>100 mm x 100 mm (4"X4")<br><br><br><br><br>approved<br>6 /1 /1999                |
| Ray-O-Lite A Division of Pac-Tec Inc<br>Mary Haddad<br>5825 N. Sam Houston Parkway W, Ste. 220<br>Houston TX 77086<br>customerservice@rayolite.com | Phone: (800) 848-7025<br>Cell: (281) 617-2240<br>Fax: (281) 583-1506<br><br>www.rayolite.com | <b>Round Shoulder ARC</b><br>100 mm x 100 mm (4"X4")<br><br><br><br><br>approved<br>6 /1 /1999 |

**633.02.03 PAVEMENT MARKERS (REFLECTIVE, RECESSED)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| Ray-O-Lite A Division of Pac-Tec Inc<br>Mary Haddad<br>5825 N. Sam Houston Parkway W, Ste. 220<br>Houston TX 77086<br>customerservice@rayolite.com | Phone: (800) 848-7025<br>Cell: (281) 617-2240<br>Fax: (281) 583-1506<br><br>www.rayolite.com | <b>2002</b><br>58 mm x 19 mm (2.3"x4.6")<br><br><br><br><br>approved<br>6 /1 /1999 |
| Ray-O-Lite A Division of Pac-Tec Inc<br>Mary Haddad<br>5825 N. Sam Houston Parkway W, Ste. 220<br>Houston TX 77086<br>customerservice@rayolite.com | Phone: (800) 848-7025<br>Cell: (281) 617-2240<br>Fax: (281) 583-1506<br><br>www.rayolite.com | <b>2004</b><br>58 mm x 19 mm (2.3"x4.6")<br><br><br><br><br>approved<br>6 /1 /1999 |

**633.02.04 PAVEMENT MARKERS ADHESIVE**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>  |
|--|---|---|
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com                 | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br><br>www.crafco.com                      | <b>34270 Hot Applied Flexible</b><br><br><br><br><br>approved<br>6 /16/1998   |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>Bundy 12 cm X 12 cm Pad;</b><br><b>(5" X 5") Pad</b> White color on plantmix and black color on PCCP<br><br><br><br><br>approved<br>5 /4 /1998 |

**633.02.04 PAVEMENT MARKERS ADHESIVE**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>  |
|---|---|---|
| Martin Asphalt Company<br>Juan Hermosillo<br>300 Christy Place<br>South Houston TX 77587<br>juan.hermosillo@martinmlp.com | Phone: (713) 943-5210<br>Cell: (713) 941-4410<br>Fax: (713) 947-4908<br><br>www.martinasphalt.com | <b>172542 Evergrip Bituminous</b><br><br><br><br><br>approved<br>6 /15/1998         |
| Martin Asphalt Company<br>Juan Hermosillo<br>300 Christy Place<br>South Houston TX 77587<br>juan.hermosillo@martinmlp.com | Phone: (713) 943-5210<br>Cell: (713) 941-4410<br>Fax: (713) 947-4908<br><br>www.martinasphalt.com | <b>Evergrip Flexible GTR BMA</b><br><br><br><br><br>approved<br>6 /15/2016          |
| Seal Bond<br>Kelly Iverson<br>14851 Michael Lane<br>Spring Lake MI 49456<br>kiverson@seal-bond.com                        | Phone: (800) 252-4144<br>Cell:<br>Fax: (616) 850-0530<br><br>www.seal-bond.com                    | <b>SB 9113 Traffic Reflector Adhesive</b><br><br><br><br><br>approved<br>9 /25/2017 |

**633.02.05 LANE LINE MARKERS (REFLECTIVE, TEMPORARY)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |
|--|--|---|
| Apex Universal Incorporated<br>Janet Yang<br>11033 Forest Place<br>Santa Fe Springs CA 90670<br>sales@apexmarker.com | Phone: (562) 944-8878<br>Cell: (562) 879-6888<br>Fax: (562) 944-2298<br><br>www.apexmarker.com | <b>Apex Chip Seal / Overlay Marker</b><br><br><br><br><br>approved<br>1 /8 /2013                        |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                     | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>Halftrack Model 25</b><br>Work zone pavement markers<br><br><br><br><br>approved<br>11/29/2000       |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                     | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>Halftrack Model 26</b><br>Work zone pavement markers<br><br><br><br><br>approved<br>11/29/2000       |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                     | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>TOM</b><br>Work zone pavement markers<br><br><br><br><br>approved<br>11/29/2000                      |
| Pexco, LLC<br>Craig Schulz<br>3110 70th Avenue East<br>Tacoma WA 98424<br>craig.schulz@pexco.com                     | Phone: (253) 284-8000<br>Cell: (253) 284-8005<br>Fax: (253) 284-8080<br><br>www.pexco.com      | <b>TRPM (Temporary Overlay)</b><br>Work zone pavement markers<br><br><br><br><br>approved<br>11/29/2000 |

**635.02.01 PAVEMENT STRIPING TAPE (TEMPORARY)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>   |                        |
|---|---|--|------------------------|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com                                 | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm          | <b>710 WRR</b><br><br><br><br><br>WRR = Wet Reflective Removeable<br>white/yellow available  | approved<br>8 /16/2006 |
| Advance Traffic Markings<br>Raeleen Lucas<br>100 Patch Rubber Road<br>Weldon NC 27890<br>lucasco@ralucasco.com                              | Phone: (252) 536-2574<br>Cell: (714) 397-4428<br>Fax: (252) 536-4940<br><br>www.trafficmarkings.com | <b>200 Construction R</b><br><br><br><br><br>R = Removeable<br>white/yellow available  | approved<br>9 /24/2003 |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave<br>Denver CO 80239<br>sdurkin@brite-line.com                                    | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br><br>www.brite-line.com      | <b>Series 100R</b><br><br><br><br><br>R = Removeable<br>white/yellow available   | approved<br>6 /15/1999 |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave<br>Denver CO 80239<br>sdurkin@brite-line.com                                    | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br><br>www.brite-line.com      | <b>Series 200R</b><br><br><br><br><br>R = Removeable<br>white/yellow available   | approved<br>6 /15/1999 |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave<br>Denver CO 80239<br>sdurkin@brite-line.com                                    | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br><br>www.brite-line.com      | <b>Series Deltaline TWR</b><br><br><br><br><br>TWR = Temporary Wet Removeable<br>white/yellow available                                      | approved<br>6 /15/1999 |
| Swarco Industries / Traffic Mgt<br>Johnathan Knutson<br>270 Rutherford Lane / PO Box 89<br>Columbia TN 38401<br>jonathan.knutson@swarco.com | Phone: (503) 421-5227<br>Cell: (503) 421-5227<br>Fax: (503) 208-2785<br><br>www.swarco.com          | <b>Director 2 - (DG)<br/>Director 2 (DG-WR)</b><br><br><br><br><br>DG = Detour Grade<br>WR = Wet Reflective<br>white/yellow available        | approved<br>4 /26/1999 |
| Tape4 LLC<br>Greg Gibson<br>P.O. Box 300575<br>St Louis MO 63130<br>greg@tape4.com  | Phone: (314) 968-2569<br>Cell: (314) 504-0742<br>Fax: (314) 968-0494<br><br>www.tape-4.com          | <b>Aztec III R</b><br><br><br><br><br>R = Removeable<br>white/yellow<br>available<br>alt. contact is David Littleton (e:)<br>david@tape4.com | approved<br>6 /7 /2013 |

**641.02.01 IMPACT ATTENUATORS**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>  | <b>Remarks</b>   |                        |
|---|--|--|------------------------|
| Hill & Smith, Inc.<br>Cecil Brown<br>987 Buckeye Park Road<br>Columbus OH 43207<br>cecil.brown@hillandsmith.com | Phone: (614) 340-6294<br>Cell:<br>Fax:<br><br>www.hillandsmith.com | <b>SCI100GM</b><br><br><br><br><br>MASH approved, TL-3 Compliant; Approved at all<br>speeds. | approved<br>2 /23/2007 |



**642.02.02 CONCRETE PANEL WALL SYSTEMS**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>  |
|--|--|---|
| Reinforced Earth Company<br>Jack Mackie<br>45610 Woodland Rd, Suite 200<br>Sterling VA 20166<br>jmackie@reinforcedearth.com                | Phone: (703) 547-8797<br>Cell:<br>Fax:<br><br>www.reinforcedearth.com                          | <b>GeoMega MSE Wall System</b><br><br>MANDATORY consultation with NDOT Structures and Geotechnical BEFORE submitting on a bid--contact coordinator to get contact info for this well in advance. Approved with Omega connection ONLY. Height restricted to 50 ft maximum. |
| Reinforced Earth Company<br>Jacques Bloomfield<br>25910 Acero, Suite 200<br>Mission Viejo CA 92691<br>jbloomfield@reinforcedearth.com      | Phone: (949) 689-9023<br>Cell: (949) 247-3601<br>Fax:<br><br>www.reinforcedearth.com           | <b>Reinforced Earth Lrg Wall</b><br><br>approved<br>3 /27/2019  |
| Reinforced Earth Company<br>Jacques Bloomfield<br>25910 Acero, Suite 200<br>Mission Viejo CA 92691<br>jbloomfield@reinforcedearth.com      | Phone: (949) 689-9023<br>Cell: (949) 247-3601<br>Fax:<br><br>www.reinforcedearth.com           | <b>Retained Earth</b><br><br>approved<br>2 /7 /2001   |
| SSL, LLC<br>Andrew Thompson<br>4740 Scotts Valley Drive Suite E<br>Scotts Valley CA 95066<br>andrewt@mseplus.com                           | Phone: (831) 430-9300<br>Cell: (831) 331-6199<br>Fax: (831) 430-9340<br><br>www.mseplus.com    | <b>MSE Earth</b><br><br>Modified panels required; W24 longitudinal wire not permitted<br><br>approved<br>5 /6 /2002   |
| SSL, LLC<br>Andrew Thompson<br>4740 Scotts Valley Drive Suite E<br>Scotts Valley CA 95066<br>andrewt@mseplus.com                           | Phone: (831) 430-9300<br>Cell: (831) 331-6199<br>Fax: (831) 430-9340<br><br>www.mseplus.com    | <b>MSE Large Wall Panel</b><br><br>Modified panels required; W24 longitudinal wire not permitted<br><br>approved<br>5 /6 /2002  |
| SSL, LLC<br>Andrew Thompson<br>4740 Scotts Valley Drive Suite E<br>Scotts Valley CA 95066<br>andrewt@mseplus.com                           | Phone: (831) 430-9300<br>Cell: (831) 331-6199<br>Fax: (831) 430-9340<br><br>www.mseplus.com    | <b>MSE Plus</b><br><br>Modified panels required; W24 longitudinal wire not permitted<br><br>approved<br>5 /6 /2002  |
| Tensar International Corporation<br>Robert Johnson<br>2500 Northwinds Parkway, Suite 500<br>Alpharetta GA 30009<br>rjohnson@tensarcorp.com | Phone: (770) 344-2090<br>Cell: (770) 557-5015<br>Fax: (770) 344-2084<br><br>www.tensarcorp.com | <b>Ares Retaining Precast Wall</b><br><br>approved<br>6 /11/1998  |

**642.02.03 SEGMENTAL BLOCK WALL SYSTEMS**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>   |
|--|---|--|
| Jensen Precast<br>Steven Jensen<br>9895 Double R Blvd.<br>Reno NV 89521<br>sjensen@jensenprecast.com | Phone: (775) 352-2700<br>Cell: (775) 352-6307<br>Fax: (775) 359-6364<br><br>www.jensenprecast.com | <b>Redi-Rock</b><br><br>Permitted on a project-by-project basis with approvals from NDOT bridge and NDOT geotechnical and in accordance with 640.02.03 NDOT specifications<br><br>approved<br>7 /23/2009 |

**642.02.03 SEGMENTAL BLOCK WALL SYSTEMS**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>  |
|--|--|---|
| Reinforced Earth Company<br>Jacques Bloomfield<br>25910 Acero, Suite 200<br>Mission Viejo CA 92691<br>jbloomfield@reinforcedearth.com      | <b>Pyramid</b><br>Phone: (949) 689-9023<br>Cell: (949) 427-3601<br>Fax:<br>www.reinforcedearth.com               | Permitted on a project-by-project basis with approvals from NDOT bridge and NDOT geotechnical and in accordance with 640.02.03 NDOT specifications<br><b>approved</b><br>9 /30/1994 |
| Super Lite Block<br>Estrella Cotto<br>3565 East Bost Road Suite 108<br>Las Vegas NV 89021<br>estrella.cotto@oldcastleapg.com               | <b>KeySteel SQFT MSE Panel</b><br>Phone: (866) 758-3427<br>Cell: (702) 255-6364<br>Fax:<br>www.keystonewalls.com | Permitted on a project-by-project basis with approvals from NDOT bridge and NDOT geotechnical and in accordance with 640.02.03 NDOT specifications<br><b>approved</b><br>5 /15/2002 |
| Tensar International Corporation<br>Robert Johnson<br>2500 Northwinds Parkway, Suite 500<br>Alpharetta GA 30009<br>rjohnson@tensarcorp.com | <b>MESA</b><br>Phone: (770) 344-2090<br>Cell: (770) 557-5015<br>Fax: (770) 344-2084<br>www.tensarcorp.com        | Permitted only when specified in the contract documents as an acceptable product<br><b>approved</b><br>1 /1 /2012   |

**646.02.02 CRACK SEALANTS**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>   |
|--|---|--|
| Adhesives Technology Corporation<br>Renee Thomas<br>450 East Copans Rd.<br>Pompano Beach FL 33064-5509<br>atcinfo@atcepoxy.com | <b>CRACKBOND V65 HI-MOD</b><br>Phone: (800) 892-1880<br>Cell: (954) 782-2221<br>Fax: (954) 782-2499<br>www.atcepoxy.com | Type I, II, IV and V; Grade 1; Class B and C.<br><b>approved</b><br>12/17/2018           |
| E-Chem, LLC<br>Renee Thomas<br>4102 El Rey Road SE<br>Albuquerque NM 87105<br>rthomas@atcepoxy.com                             | <b>EP100-SEAL HM</b><br>Phone: (505) 217-2121<br>Cell: (954) 789-4764<br>Fax:<br>www.e-chem.net                         | ASTM C881 Type I, II, IV, and V; Grade 1; Class B and C<br><b>approved</b><br>7 /22/2019 |
| E-Chem, LLC<br>Renee Thomas<br>4102 El Rey Road SE<br>Albuquerque NM 87105<br>rthomas@atcepoxy.com                             | <b>EP-SLV</b><br>Phone: (505) 217-2121<br>Cell: (954) 789-4764<br>Fax:<br>www.e-chem.net                                | ASTM C881 Type I, II, IV, and V; Grade 1; Class B and C<br><b>approved</b><br>7 /22/2019 |
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com                | <b>Dural 335</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com      | ASTM C881 Type I and IV; Grade 1; Class C<br><b>approved</b><br>6 /22/2021               |
| Sika Corporation<br>Brandon McNamara<br>201 Polito Avenue<br>Lyndhurst NY 07071<br>mcmamara.brandon@us.sika.com                | <b>Sikadur 55 SLV</b><br>Phone: (201) 508-6865<br>Cell: (201) 508-6865<br>Fax:<br>usa.sika.com                          | Type I and II; Grade 1; Class C<br><b>approved</b><br>6 /15/2016                         |

**646.02.05 LIQUID MEMBRANE**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| PPG<br>Jonathan Haydu<br>686 S. Adams Street<br>Kansas City KS 66105<br>info@bridgepreservation.com | Phone: (913) 321-9000<br>Cell:<br>Fax:<br><br>www.bridgepreservation.com | <b>Bridge Deck Membrane (BDM)</b><br><br><br><br>approved<br>9/25/2017 |

**702.03.01c CURING COMPOUND (LIQUID MEMBRANE FORMING FOR CURING CONCRETE)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| Atlas Tech Products<br>Ryan Quinn<br>680 West Lake Mead Parkway<br>Henderson NV 89015<br>ryanquinn@atlasform.com         | Phone: (702) 227-6800<br>Cell: (858) 277-2100<br>Fax: (702) 222-0488<br><br>www.atlasform.com   | <b>Atlas Res-Cure</b><br><br><br><br>ASTM C309 Type 1D<br>approved<br>9/2/2008                           |
| ChemMasters, Inc.<br>John Kirk<br>300 Edwards St.<br>Madison OH 44057<br>johnkirk@chemmasters.net                        | Phone: (800) 486-7866<br>Cell: (440) 428-2105<br>Fax: (440) 428-7091<br><br>www.chemmasters.net | <b>Safe-Cure 1000 Clear w/Dye</b><br><br><br><br>ASTM C309 Type 1D Variant Only<br>approved<br>3/11/2021 |
| Dayton Superior Corporation<br>Holly Jergens<br>1125 Byers Rd.<br>Miamisburg OH 45342<br>hollyjergens@daytonsuperior.com | Phone: (937) 866-0711<br>Cell:<br>Fax:<br><br>www.daytonsuperior.com                            | <b>Resin Cure w/Dye J11WD</b><br><br><br><br>ASTM C309 Type 1D<br>approved<br>1/8/2010                   |
| SpecChem, LLC<br>Michael Lemark<br>1511 Baltimore Ave.<br>Kansas City MO 64108<br>mlemark@specchemllc.com                | Phone: (816) 968-5600<br>Cell: (562) 489-9607<br>Fax:<br><br>www.specchem.com                   | <b>SpecRez</b><br><br><br><br>Type 1D<br>approved<br>3/26/2018   |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com              | Phone: (303) 778-7227<br>Cell: (303) 489-1083<br>Fax: (303) 722-8426<br><br>www.usspec.com      | <b>US SPEC MaxCure Resin Clear</b><br><br><br><br>ASTM C309 Type 1D<br>approved<br>2/6/2006              |
| W.R. Meadows<br>Chris Mader<br>300 Industrial Dr.<br>Hampshire IL 60140<br>dot@wrmeadows.com                             | Phone: (224) 325-1080<br>Cell:<br>Fax:<br><br>www.wrmeadows.com                                 | <b>1100 Clear</b><br><br><br><br>ASTM C309 Type 1D Variant Only<br>approved<br>8/21/2019                 |
| W.R. Meadows<br>Chris Mader<br>300 Industrial Dr.<br>Hampshire IL 60140<br>dot@wrmeadows.com                             | Phone: (224) 325-1080<br>Cell:<br>Fax:<br><br>www.wrmeadows.com                                 | <b>1300 Clear</b><br><br><br><br>ASTM C309 Type 1D Variant Only<br>approved<br>8/21/2019                 |

**702.03.01d CURING COMPOUND (WHITE PIGMENTED, WAX BASE)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |
|--|--|---|
| Atlas Tech Products<br>Ryan Quinn<br>680 West Lake Mead Parkway<br>Henderson NV 89015<br>ryanquinn@atlasform.com         | Phone: (702) 227-6800<br>Cell: (858) 277-2100<br>Fax: (702) 222-0488<br><br>www.atlasform.com      | <b>Atlas Pro-Cure White</b><br><br><br><br>approved<br>9/2/2008       |
| ChemMasters, Inc.<br>John Kirk<br>300 Edwards St.<br>Madison OH 44057<br>johnkirk@chemmasters.net                        | Phone: (800) 486-7866<br>Cell: (440) 428-2105<br>Fax: (440) 428-7091<br><br>www.chemmasters.net    | <b>Safe-Cure 800</b><br><br><br><br>approved<br>3/11/2021             |
| Crafco, Inc.<br>Kelsey Naumann<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>kelsey.naumann@crafco.com               | Phone: (602) 276-0406<br>Cell:<br>Fax:<br><br>https://crafco.com                                   | <b>White Water Wax 309</b><br><br><br><br>approved<br>3/14/2022       |
| Dayton Superior Corporation<br>Holly Jergens<br>1125 Byers Rd.<br>Miamisburg OH 45342<br>hollyjergens@daytonsuperior.com | Phone: (937) 866-0711<br>Cell:<br>Fax:<br><br>www.daytonsuperior.com                               | <b>White Wax Cure J9A</b><br><br><br><br>approved<br>8/29/2008        |
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com          | Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br><br>www.euclidchemical.com | <b>Kurez Vox White Pigmented</b><br><br><br><br>approved<br>8/21/1997 |
| SpecChem, LLC<br>Michael Lemark<br>1511 Baltimore Ave Ste 600<br>Kansas City MO 64108<br>mlemark@specchemllc.com         | Phone: (816) 968-5600<br>Cell: (562) 489-9607<br>Fax:<br><br>www.specchemllc.com                   | <b>Atlas Pro-Cure White</b><br><br><br><br>approved<br>1/22/2014      |
| SpecChem, LLC<br>Michael Lemark<br>1511 Baltimore Ave., Suite 600<br>Kansas City KS 64108<br>mlemark@specchemllc.com     | Phone: (816) 968-5600<br>Cell: (562) 489-9607<br>Fax:<br><br>www.specchemllc.com                   | <b>PaveCure WW</b><br><br><br><br>approved<br>2/18/2008               |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com              | Phone: (303) 778-7227<br>Cell: (303) 489-1083<br>Fax: (303) 722-8426<br><br>www.usspec.com         | <b>US SPEC MaxCure Wax White</b><br><br><br><br>approved<br>7/2/2008  |

**702.03.01d CURING COMPOUND (WHITE PIGMENTED, WAX BASE)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>  |
|--|---|---|
| W.R. Meadows<br>Chris Mader<br>300 Industrial Dr.<br>Hampshire IL 60140<br>dot@wrmeadows.com | Phone: (224) 325-1080<br>Cell:<br>Fax:<br>www.wrmeadows.com | <b>1600 White</b><br><br><br><br>approved<br>5 /2 /2019 |

**702.03.04 CURING COMPOUND (BRIDGE DECK)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| Atlas Tech Products<br>Ryan Quinn<br>680 West Lake Mead Parkway<br>Henderson NV 89015<br>ryanquinn@atlasform.com     | Phone: (702) 227-6800<br>Cell: (858) 277-2100<br>Fax: (702) 222-0488<br>www.atlasform.com   | <b>Atlas Pro-Cure AMS</b><br><br><br><br>Bridge Decks ASTM C309, Type 2, Class B<br>approved<br>9 /2 /2008     |
| ChemMasters, Inc.<br>John Kirk<br>300 Edwards St.<br>Madison OH 44057<br>johnkirk@chemmasters.net                    | Phone: (800) 486-7866<br>Cell: (440) 428-2105<br>Fax: (440) 428-7091<br>www.chemmasters.net | <b>Certi-Vex Envio Cure White 1315</b><br><br><br><br>approved<br>12/31/2019                                   |
| SpecChem, LLC<br>Michael Lemark<br>1511 Baltimore Ave., Suite 600<br>Kansas City MO 64108<br>mlemark@specchemllc.com | Phone: (816) 968-5600<br>Cell: (562) 489-9607<br>Fax:<br>www.specchemllc.com                | <b>Atlas Pro-Cure AMS</b><br><br><br><br>approved<br>1 /22/2014  |
| SpecChem, LLC<br>Michael Lemark<br>1511 Baltimore Ave., Suite 600<br>Kansas City MO 64108<br>mlemark@specchemllc.com | Phone: (816) 968-5600<br>Cell: (562) 489-9607<br>Fax:<br>www.specchemllc.com                | <b>Pave Cure AMS</b><br><br><br><br>approved<br>5 /7 /2013   |
| US Mix Company<br>Andrew Beaty<br>112 South Santa Fe Drive<br>Denver CO 80223<br>andrew.beaty@oldcastle.com          | Phone: (303) 778-7227<br>Cell: (303) 489-1083<br>Fax: (303) 722-8426<br>www.usspec.com      | <b>US SPEC AMS 3754 White</b><br><br><br><br>Bridge Decks ASTM C309, Type 2, Class B<br>approved<br>6 /17/2008 |

**702.03.05 POZZOLANS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>                                   | <i>Remarks</i>   |
|---|---|--|
| 3M<br>Gokul Venkitachalam<br>18750 Minnesota Road<br>Corona CA 92881-4313<br>gvenkitachalam@mmm.com | Phone: (951) 520-4639<br>Cell: (405) 245-3643<br>Fax: | <b>NP200C</b><br><br><br><br>Class N<br>approved<br>9 /17/2020 |

**702.03.05 POZZOLANS**

| <i>Vendor Name / Address</i>   |   | <i>Product Name</i>               | <i>Remarks</i>  |                        |
|--|---|-----------------------------------|---|------------------------|
| Boral Resources, LLC<br>Craig Wallace<br>1217 Cape Coral Pkwy E PMB 190<br>Cape Coral FL 33904<br>cwallace@boral.com | Phone: (239) 565-2338<br>Cell:<br>Fax: (866) 449-8108<br><br>www.flyash.com                     | <b>Carbon II Class F Fly Ash</b>  | Class F   | approved<br>12/31/2019 |
| Boral Resources, LLC<br>Larry Bronson<br>P.O. Box 50192<br>Henderson NV 89016<br>lbronson@boral.com                  | Phone: (702) 547-6941<br>Cell: (702) 498-4797<br>Fax: (702) 547-6941<br><br>www.boralflyash.com | <b>Class F Fly Ash</b>            | Class F Fly Ash<br>Sources:<br>Plant: Delta Plant, UT<br>Plant: Bridger Plant, WY | approved<br>2 /17/2010 |
| Boral Resources, LLC<br>Craig Wallace<br>1217 Cape Coral Pkwy E PMB 190<br>Cape Coral FL 33904<br>cwallace@boral.com | Phone: (239) 565-2338<br>Cell:<br>Fax: (866) 449-8108<br><br>www.flyash.com                     | <b>Coal Creek Class F Fly Ash</b> | Class F   | approved<br>4 /1 /2020 |
| Boral Resources, LLC<br>Craig Wallace<br>1217 Cape Coral Pkwy E PMB-190<br>Cape Coral FL 33904<br>cwallace@boral.com | Phone: (239) 565-2338<br>Cell:<br>Fax: (866) 449-8108<br><br>www.flyash.com                     | <b>Craig Class F Fly Ash</b>      | Class F   | approved<br>4 /1 /2020 |
| Boral Resources, LLC<br>Craig Wallace<br>1217 Cape Coral Pkwy E PMB 190<br>Cape Coral FL 33904<br>cwallace@boral.com | Phone: (239) 565-2338<br>Cell:<br>Fax:<br><br>https://flyash.com                                | <b>Kirkland Natural Pozzolan</b>  | Class N   | approved<br>9 /20/2021 |
| Boral Resources, LLC<br>Craig Wallace<br>1217 Cape Coral Pkwy E PMB 190<br>Cape Coral FL 33904<br>cwallace@boral.com | Phone: (239) 565-2338<br>Cell:<br>Fax: (866) 449-8108<br><br>https://flyash.com                 | <b>Prairie State</b>              | Class F   | approved<br>6 /22/2021 |
| Charah Solutions<br>Timothy Cole<br>12601 Plantside Drive<br>Louisville KY 40299<br>tcole@charah.com                 | Phone: (502) 631-0043<br>Cell:<br>Fax:<br><br>www.charah.com                                    | <b>Miami Fort</b>                 | Class F   | approved<br>6 /22/2021 |
| Geofortis Pozzolans, LLC<br>Mike Donovan<br>320 Western Road, Suite #1<br>Reno NV 89506<br>mdonovan@geofortis.com    | Phone: (925) 878-1459<br>Cell:<br>Fax:<br><br>www.Geofortis.com                                 | <b>Geo NP Faust UT</b>            | Class N   | approved<br>9 /17/2020 |

**702.03.05 POZZOLANS**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| Golden State Pozzolan<br>Ben Inkster<br>5980 Outfall Circle<br>Sacramento CA 95828<br>ben@goldenstatecrushing.com   | Phone: (916) 381-4100<br>Cell: (209) 552-5550<br>Fax:<br>www.goldenstatecrushing.com         | <b>GSP Class N</b><br>Class N<br>approved<br>3/14/2022   |
| Nevada Cement Company, LLC<br>Scott Murphy<br>1290 West Main Street<br>Fernley NV 89408<br>smurphy@nevadacement.com   | Phone: (775) 575-2281<br>Cell: (775) 232-4508<br>Fax: (775) 575-4387<br>www.nevadacement.com | <b>Pozzolan Class "N"</b><br>Class N<br>approved<br>4/8/2011   |
| Salt River Materials Group - Phoenix Cement Co<br>Jeff Hearne<br>8800 East Chaparral Road, Suite 155<br>Scottsdale AZ 85250-2606<br>jhearne@srmaterials.com | Phone: (480) 850-5757<br>Cell: (602) 321-6040<br>Fax: (480) 850-5758<br>www.srmaterials.com  | <b>Apache Class F Fly Ash</b><br>approved<br>4/16/2020   |
| Salt River Materials Group - Phoenix Cement Co<br>Jeff Hearne<br>8800 East Chaparral Road, Suite 155<br>Scottsdale AZ 85250-2606<br>jhearne@srmaterials.com | Phone: (480) 850-5757<br>Cell: (602) 321-6040<br>Fax: (480) 850-5758<br>www.srmaterials.com  | <b>Bonanza Class F Fly Ash</b><br>approved<br>9/25/2017  |
| Salt River Materials Group - Phoenix Cement Co<br>Jeff Hearne<br>8800 East Chaparral Road, Suite 155<br>Scottsdale AZ 85250-2606<br>jhearne@srmaterials.com | Phone: (480) 850-5757<br>Cell: (602) 321-6040<br>Fax: (480) 850-5758<br>www.srmaterials.com  | <b>Huntington Class F Fly Ash</b><br>Class F<br>approved<br>3/14/2022  |
| Salt River Materials Group - Phoenix Cement Co<br>Jeff Hearne<br>8800 East Chaparral Road, Suite 155<br>Scottsdale AZ 85250-2606<br>jhearne@srmaterials.com | Phone: (480) 850-5757<br>Cell: (602) 321-6040<br>Fax: (480) 850-5758<br>www.srmaterials.com  | <b>Pozzolan Class F</b><br>Plant: Cholla Plant, Joseph City, AZ<br>Plant: Four Corners Plant, Fruitland, NM<br>Plant: Gallup Plant, Gallup, NM<br>Plant: San Juan Plant, Waterflow, NM<br>approved<br>2/4/2011 |
| Whitemud Resources Incorporated<br>Thomas O'Neill<br>6713 Fairmont Drive SE<br>Calgary, Alberta, T2H 0X6<br>Canada<br>info@whitemudresources.com            | Phone: (403) 281-2215<br>Cell: (403) 801-4125<br>Fax:<br>www.whitemudresources.com           | <b>Metakaolin</b><br>Class N. Mobile# (403) 801-4125.<br>approved<br>2/4/2011  |

**707.03.04 JOINT SEALER (FOR WEAKENED PLANE JOINTS IN PCCP)**

| <i>Vendor Name / Address</i> | <i>Product Name</i> | <i>Remarks</i> |
|------------------------------|---------------------|----------------|
|------------------------------|---------------------|----------------|

**707.03.04 JOINT SEALER (FOR WEAKENED PLANE JOINTS IN PCCP)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |
|--|--|---|
| Crafco, Inc.<br>Angie Hoaglin<br>6165 W. Detroit Street<br>Chandler AZ 85226<br>angie.hoaglin@crafco.com             | Phone: (602) 276-0406<br>Cell: (602) 418-9902<br>Fax: (480) 961-0513<br><br>www.crafco.com         | <b>Roadsaver Silicone SL</b><br><br><br><br>approved<br>6 /20/2006  |
| DS Brown Company<br>Ryan Sypherd<br>300 East Cherry Street<br>North Baltimore OH 45872<br>rsypherd@dsbrown.com       | Phone: (800) 848-1730<br>Cell: (651) 262-6308<br>Fax: (419) 257-2200<br><br>www.dsbrown.com        | <b>DSB 900 SL Silicone</b><br>SL = Self Leveling<br><br>approved<br>4 /5 /2005                              |
| Pecora Corporation<br>Glen Murphy<br>165 Wambold Road<br>Harleysville PA 19438<br>murphyg@pecora.com                 | Phone: (214) 723-6051<br>Cell: (818) 519-7658<br>Fax: (215) 721-0286<br><br>www.pecora.com         | <b>Pecora 300</b><br><br><br>approved<br>9 /15/2001   |
| Sika Corporation<br>Brandon McNamara<br>201 Polito Avenue<br>Lyndhurst NJ 07071<br>brandon.mcnamara@us.sika.com      | Phone: (201) 508-6865<br>Cell: (201) 508-6865<br>Fax:<br><br>usa.sika.com                          | <b>Sikasil 728 SL</b><br><br><br>approved<br>8 /5 /2005   |
| The Dow Chemical Company<br>Jason Sika<br>12081 West Alameda Parkway #421<br>Lakewood CO 80228<br>jason.sika@dow.com | Phone: (989) 496-3833<br>Cell: (303) 880-9614<br>Fax:<br><br>www.dow.com                           | <b>DOWSIL 890-SL Silicone Sealant</b><br><br><br>approved<br>3 /20/1997                                     |
| Tremco CPG, Inc.<br>Technical Services<br>3735 Green Road<br>Beachwood OH 44122<br>techresources@tremcoinc.com       | Phone: (866) 209-2404<br>Cell: (216) 292-5000<br>Fax: (216) 766-5535<br><br>www.tremcosealants.com | <b>Spectrem 900 SL Formula 974831 w/ 333 Cartridges</b><br>SL = Self Leveling<br><br>approved<br>5 /31/2002 |

**714.03.01b COATING SYSTEMS FOR BRIDGES**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| Carboline Company<br>Agatha McFarland<br>2150 Schuetz Road<br>Maryland Heights MO 63146<br>amcfarland@carboline.com    | Phone: (314) 644-1000<br>Cell: (770) 846-1318<br>Fax: (314) 587-2693<br><br>www.carboline.com | <b>Use the System in Remarks</b><br><br><br>Shop Coat: Carbozinc 11, Part A: Base Part B: Zinc Filler. 1st Field Coat: Carboguard 893 Cycloaliphatic Amine Epoxy-Part A: Resin Part B: Catalyst. Top Coat: Carbothane 134 HS Aliphatic Acrylic Polyurethane-Part A: Resin Part B: Urethane Converter 811<br><br>approved<br>12/30/1998 |
| PPG Protective & Marine Coatings<br>Tod Savage<br>6359 Rancho Mission Rd #2<br>San Diego CA 92108<br>nyemiller@msn.com | Phone: (714) 337-1953<br>Cell: (619) 633-8406<br>Fax:<br><br>www.ppgpmc.com                   | <b>Use the System in Remarks</b><br><br><br>Shop Coat: Dimetcote 9 Inorganic Zinc, Part A: Base Part B: Zinc Dust<br>1st Field Coat: Amercoat® 385 Multi-Purpose Epoxy - PartA: Resin Part B: Cure<br>Top Coat: Amercoat 450 H Aliphatic Polyurethane - Part A: Resin Part B: Cure<br><br>approved<br>5 /21/2008                       |

**714.03.01b COATING SYSTEMS FOR BRIDGES**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>  |
|---|--|---|
| Sherwin Williams Company<br>Paul Trautman<br>101 Prospect Avenue NW<br>Cleveland OH 44115<br>paul.trautmann@sherwin.com | Phone: (216) 566-1733<br>Cell: (210) 861-2286<br>Fax: (216) 830-7721<br>www.sherwin-williams.com | <b>Use the System in Remarks</b><br>Shop Coat: Zinc Clad II, Part E: B69V3 Part F: B69D11<br>1st Field Coat: Recoatable Epoxy Primer - Part G: B67R5 Part H: B67V5<br>Top Coat: Sherthane® 2K Urethane - Part A: B65-150 Series Part B: B65V150 |

approved  
12/30/1998

**716.03.01a REFLECTIVE SHEETING (TYPE IV)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>  |
|---|---|---|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br>www.3M.com/tcm                    | <b>3910 FL DG</b><br>Type IV<br>for work zone drums and delineators   |
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br>www.3M.com/tcm                    | <b>3911 FL Y DG</b><br>Type IV<br>for work zone drums and delineators   |
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br>www.3M.com/tcm                    | <b>3914 FL DG</b><br>Type IV<br>for work zone drums and delineators   |
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br>www.3M.com/tcm                    | <b>3924S</b><br>Type IV<br>for Barricades ONLY and Permanent Traffic  |
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br>www.3M.com/tcm                    | <b>3930</b><br>Type IV<br>for Barricades ONLY and Permanent Traffic   |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br>www.reflectives.averydennison.com | <b>T6500 P HI</b><br>Type IV<br>for temporary traffic control devices, delineators and permanent signs ONLY   |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br>www.reflectives.averydennison.com | <b>W6000 P</b><br>Type IV<br>for temporary traffic control devices, delineators, and work zone barricade ONLY |

approved  
8/16/2000

approved  
8/16/2000

approved  
8/16/2000

approved  
12/1/2004

approved  
12/1/2004

approved  
7/10/2001

approved  
7/10/2001



**716.03.01a REFLECTIVE SHEETING (TYPE IV)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>   |
|--|---|--|
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>ORALITE Resilience Channelizer Tape</b><br>Type IV<br>for use in construction work zones on drums, cones, tubes, posts, and vertical panels<br><br>approved<br>4 /6 /2011 |

**716.03.01b REFLECTIVE SHEETING (TYPE V)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>   |
|--|---|--|
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>ORALITE AP 1000</b><br>Type V<br>For use in work zones on barrier and guardrail delineation and roadside delineation posts.<br><br>approved<br>4 /8 /1999 |

|  |   |  |
|--|---|--|
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>ORALITE AR 1000</b><br>Type V<br>For use in work zones on barrier and guardrail delineation and roadside delineation posts.<br><br>approved<br>4 /8 /1999 |
|--|---|--|

**716.03.01c REFLECTIVE SHEETING (TYPE VI)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>  | <b>Remarks</b>  |
|---|--|---|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm | <b>3340 Cone</b><br>Type VI<br>for traffic PVC cones ONLY<br><br>approved<br>8 /16/2000 |

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|---|--|---|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm | <b>RS-24* Roll-Up</b><br>Type VI<br>for Barricades ONLY and Permanent Traffic; *Roll-up Signs<br><br>approved<br>8 /16/2000 |
|---|--|---|

|  |   |  |
|--|---|--|
| Avery Dennison Reflective Solutions<br>Nipa Joshi<br>7542 North Natchez Ave.<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>Avery Dennison OmniBrite WU-7000 Roll-Up Series</b><br><br>approved<br>6 /11/2020 |
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|--|---|---|
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>ORALITE 5934 Super Bright Reboundable Sheeting</b><br><br>approved<br>9 /17/2020 |
|--|---|---|

**716.03.01c REFLECTIVE SHEETING (TYPE VI)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>  |
|--|---|---|
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>ORALITE Marathon Roll-Up</b><br>Type VI<br>for use in emergency traffic control construction work zones and utility work areas<br>approved<br>4 / 8 / 1999     |
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>ORALITE Super Bright Roll-Up</b><br>Type VI<br>for use in emergency traffic control construction work zones and utility work areas<br>approved<br>4 / 8 / 1999 |
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>Reflective Flag*</b><br>Type VI<br>*for flagger poles ONLY<br>approved<br>4 / 6 / 2011   |

**716.03.01d REFLECTIVE SHEETING (TYPE IX)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>   |
|---|---|--|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm                    | <b>3990 VIP DG</b><br>Type IX<br>DG=Diamond Grade<br>approved<br>9 / 10 / 2010                   |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 288-7925<br><br>www.reflectives.averydennison.com | <b>OV T9500</b><br>Type IX<br>OV=OmniView<br>approved<br>7 / 10 / 2001                           |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>OV T9511</b><br>Type IX<br>OV=OmniView, Fluorescent Yellow<br>approved<br>7 / 10 / 2001       |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>OV T9513</b><br>Type IX<br>OV=OmniView, Fluorescent Yellow Green<br>approved<br>7 / 10 / 2001 |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>OV T9514</b><br>Type IX<br>OV=OmniView, Fluorescent Orange<br>approved<br>7 / 10 / 2001       |

**716.03.01d REFLECTIVE SHEETING (TYPE IX)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>  |
|--|---|---|
| ORAFOL Americas, Inc.<br>Chris Gaudette<br>120 Darling Drive<br>Avon CT 06001<br>chris.gaudette@orafol.com | Phone: (860) 676-7181<br>Cell:<br>Fax: (860) 676-7199<br><br>www.orafol.com | <b>ORALITE 5930 Fluorescent Orange Work Zone Rigid</b><br>Type IX<br><br><br><br>approved<br>2 /5 /2013 |

**716.03.01e REFLECTIVE SHEETING (TYPE XI)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>   |
|---|---|--|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm                    | <b>4000 DG3</b><br>Type XI<br>B=Barricade; WZ=Work Zones<br><br><br>approved<br>8 /16/2000             |
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm                    | <b>4080 DG3 WZ</b><br>Type XI<br>B=Barricade; WZ=Work Zones<br><br><br>approved<br>8 /16/2000          |
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com             | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm                    | <b>444 DG3 B</b><br>Type XI<br>B=Barricade; WZ=Work Zones<br><br><br>approved<br>8 /16/2000            |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>OC T11500</b><br>Type XI<br>OC=OmniCube<br><br><br>approved<br>7 /29/2010                           |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>OC T11511</b><br>Type XI<br>OC=OmniCube, Fluorescent Yellow<br><br><br>approved<br>7 /29/2010       |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>OC T11513</b><br>Type XI<br>OC=OmniCube, Fluorescent Yellow Green<br><br><br>approved<br>7 /29/2010 |
| Avery Dennison Corporation<br>Nipa Joshi<br>7542 North Natchez Avenue<br>Niles IL 60714<br>nipa.joshi@averydennison.com | Phone: (847) 627-3111<br>Cell: (773) 255-3739<br>Fax: (847) 588-7925<br><br>www.reflectives.averydennison.com | <b>OC T11514</b><br>Type XI<br>OC=OmniCube, Fluorescent Orange<br><br><br>approved<br>7 /29/2010       |

**728.03.02 EPOXY RESIN ADHESIVE FOR BONDING**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>                                  |                        |
|---|--|---|------------------------|
| Adhesives Technology Corporation<br>Renee Thomas<br>450 East Copans Road<br>Pompano Beach FL 33064-5509<br>rthomas@atcepoxy.com | <b>CRACKBOND 2100 MV</b><br>Phone: (800) 892-1880<br>Cell: (954) 782-2221<br>Fax: (954) 782-2499<br>www.atcepoxy.com   | Type II; Grade 2; Class B and C                 | approved<br>6/11/2020  |
| Adhesives Technology Corporation<br>Renee Thomas<br>450 East Copans Road<br>Pompano Beach FL 33064-5509<br>rthomas@atcepoxy.com | <b>CRACKBOND LR-321LPL</b><br>Phone: (800) 892-1880<br>Cell: (954) 782-2221<br>Fax: (954) 782-2499<br>www.atcepoxy.com | Type I, II, IV and V; Grade I; Class C          | approved<br>6/11/2020  |
| Adhesives Technology Corporation<br>Renee Thomas<br>450 East Copans Road<br>Pompano Beach FL 33064-5509<br>rthomas@atcepoxy.com | <b>ULTRABOND 1</b><br>Phone: (754) 399-1684<br>Cell: (954) 782-2221<br>Fax: (800) 362-3320<br>www.atcepoxy.com         | Type I, II, IV and V; Grade 3; Class A, B and C | approved<br>11/21/2005 |
| Adhesives Technology Corporation<br>Renee Thomas<br>450 East Copans Road<br>Pompano Beach FL 33064-5509<br>rthomas@atcepoxy.com | <b>ULTRABOND 1300</b><br>Phone: (800) 892-1880<br>Cell: (954) 782-2221<br>Fax: (954) 782-2499<br>www.atcepoxy.com      | Type I, II, IV and V; Grade 3; Class B and C    | approved<br>11/21/2005 |
| Adhesives Technology Corporation<br>Renee Thomas<br>450 East Copans Road<br>Pompano Beach FL 33064-5509<br>rthomas@atcepoxy.com | <b>ULTRABOND HS-1CC</b><br>Phone: (800) 892-1880<br>Cell: (954) 782-2221<br>Fax: (954) 782-2499<br>www.atcepoxy.com    | Type II, IV and V; Grade 3; Class A, B and C    | approved<br>3/26/2018  |
| Adhesives Technology Corporation<br>Renee Thomas<br>450 East Copans Road<br>Pompano Beach FL 33064-5509<br>rthomas@atcepoxy.com | <b>ULTRABOND HS-200</b><br>Phone: (800) 892-1880<br>Cell: (954) 782-2221<br>Fax: (954) 782-2499<br>www.atcepoxy.com    | Type I, II, IV and V; Grade 3; Class A, B and C | approved<br>11/21/2005 |
| Dayton Superior Corporation<br>Holly Jergens<br>1125 Byers Road<br>Miamisburg OH 45342<br>hollyjergens@daytonsuperior.com       | <b>ProAnchor Elite</b><br>Phone: (937) 866-0711<br>Cell:<br>Fax:<br>www.daytonsuperior.com                             | Type I, II, IV and V; Grade 3; Class A and B    | approved<br>3/11/2021  |
| Dayton Superior Corporation<br>Holly Jergens<br>1125 Byers Rd.<br>Miamisburg OH 45342<br>hollyjergens@daytonsuperior.com        | <b>Sure Anchor I J-51</b><br>Phone: (937) 866-0711<br>Cell:<br>Fax:<br>www.daytonsuperior.com                          | Type I, II, IV and V; Grade 3; Class B and C    | approved<br>1/14/2003  |



**728.03.02 EPOXY RESIN ADHESIVE FOR BONDING**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>   |                        |
|--|---|--|------------------------|
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com                        | <b>Dural 452 MV</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com       | Type I, II, IV and V; Grade 2; Class C   | approved<br>11/29/2012 |
| Euclid Chemical Company<br>Brian Lewis<br>19215 Redwood Road<br>Cleveland OH 44110<br>blewis@euclidchemical.com                        | <b>Dural Fast Set Gel</b><br>Phone: (800) 321-7628<br>Cell: (216) 692-8305<br>Fax: (216) 531-9399<br>www.euclidchemical.com | Type I and IV; Grade 3; Class C.   | approved<br>9/20/2021  |
| Hilti, Inc.<br>Lisa Barkand<br>7250 Dallas Parkway, Suite 1000<br>Plano TX 75024<br>lisa.barkand@hilti.com                             | <b>HIT-RE 10</b><br>Phone: (877) 749-6337<br>Cell:<br>Fax:<br>www.hilti.com   | Type I, II, IV and V; Grade 3; Class A, B and C  | approved<br>9/24/2018  |
| Hilti, Inc.<br>Peter Anderson<br>7250 Dallas Parkway, Suite 1000<br>Plano TX 75024<br>us-sales@hilti.com                               | <b>HIT-RE 100</b><br>Phone: (972) 403-5948<br>Cell:<br>Fax: (800) 879-7000<br>www.us.hilti.com                              | Type I, II, IV and V; Grade 3; Class A, B and C  | approved<br>12/17/2018 |
| Hilti, Inc.<br>Peter Anderson<br>7250 Dallas Parkway, Suite 1000<br>Plano TX 75024<br>peter.anderson@hilti.com                         | <b>HIT-RE 500v3</b><br>Phone: (972) 403-5948<br>Cell:<br>Fax:<br>www.us.hilti.com   | Type I, II, IV, and V; Grade 3; Class A, B, and C  | approved<br>9/25/2017  |
| ITW Commercial Construction North America<br>Christopher Nelli<br>155 Harlem Ave.<br>Glenview IL 60025<br>Adhesive-Anchors@itwccna.com | <b>Red Head C6+</b><br>Phone: (224) 307-9287<br>Cell:<br>Fax:<br>www.itwredhead.com   | Type I, II, IV and V; Grade 3; Class B and C. Alt. company email is Adhesive-Anchors@itwccna.com | approved<br>9/24/2018  |
| ITW Commercial Construction North America<br>Christopher Nelli<br>155 Harlem Ave.<br>Glenview IL 60025<br>Adhesive-Anchors@itwccna.com | <b>Red Head G5+</b><br>Phone: (224) 307-9287<br>Cell:<br>Fax:<br>www.itwredhead.com   | Type I, II, IV and V; Grade 3; Class B and C. Alt. company email is Adhesive-Anchors@itwccna.com | approved<br>9/25/2017  |
| MAPEI Corporation<br>Bruce Haller<br>1144 East Newport Center Drive<br>Deerfield Beach FL 33442<br>bhaller@mapei.com                   | <b>Planibond AE</b><br>Phone: (954) 246-8520<br>Cell: (954) 637-5121<br>Fax: (954) 246-8825<br>www.mapei.com                | Type I, II, IV and V; Grade 3; Class B and C   | approved<br>8/3/2011   |

**728.03.02 EPOXY RESIN ADHESIVE FOR BONDING**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>           | <b>Remarks</b>   |                       |
|--|-------------------------------|--|-----------------------|
| MasterSpec Materials, LLC<br>Luisa Flores<br>806 Buchanan Blvd, Ste 115-294<br>Boulder City NV 89005<br>info@masterspecmaterials.com | <b>RiteBond</b>               | Type I, II, IV and V; Grade 2; Class B and C   | approved<br>9/24/2018 |
| MiTek USA, Inc.<br>Tom Curry<br>14305 Southcross Drive, Suite 200<br>Burnsville MN 55306<br>tcurry@mii.com                           | <b>CIA-GEL 6000-GP</b>        | Type I, II, IV and V; Grade 3; Class A, B and C  | approved<br>3/25/2016 |
| MiTek USA, Inc.<br>Tom Curry<br>14305 Southcross Drive Suite 200<br>Burnsville MN 55306<br>tcurry@mii.com                            | <b>CIA-GEL 7000 Adhesive</b>  | Type I and IV; Grade 3; Class B, C and D   | approved<br>8/9/2000  |
| MKT Fastening, LLC<br>Louis Peyron<br>1 Gunnebo Drive<br>Lonoke AR 72086<br>louis@mktfastening.com                                   | <b>Liquid Roc 500+</b>        | Type IV; Grade 3; Class B and C  | approved<br>9/25/2017 |
| Pecora Corporation<br>Glen Murphy<br>165 Wambold Road<br>Harleysville PA 19438<br>murphyg@pecora.com                                 | <b>Dynapoxy Low Mod Epoxy</b> | Type III; Grade 2; Class B and C   | approved<br>6/7/2010  |
| Sika Corporation<br>Brandon McNamara<br>201 Polito Avenue<br>Lyndhurst NJ 07071<br>brandon.mcnamara@us.sika.com                      | <b>Sika AnchorFix 3001</b>    | ASTM C881 Type IV; Grade 3; Class C. Automatic proportioning, mixing, and dispensing equipment must be used. | approved<br>7/22/2019 |
| Sika Corporation<br>Brandon McNamara<br>201 Polito Avenue<br>Lyndhurst NJ 07071<br>brandon.mcnamara@us.sika.com                      | <b>Sikadur 35 Hi Mod</b>      | Type I, II and IV; Grade 1; Class C  | approved<br>4/10/2006 |
| Simpson Strong Tie<br>Wendy Allen<br>5151 South Airport Way<br>Stockton CA 95206<br>wallen@strongtie.com                             | <b>ET-HP Epoxy Adhesive</b>   | Type I, II, IV and V; Grade 3; Class B and C   | approved<br>1/15/2009 |

**728.03.02 EPOXY RESIN ADHESIVE FOR BONDING**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>   |
|--|--|--|
| SpecChem, LLC<br>Michael LeMark<br>1511 Baltimore Ave.<br>Kansas City MO 64108<br>mlemark@specchemllc.com                        | Phone: (816) 968-5600<br>Cell: (562) 489-9607<br>Fax:<br>www.specchemllc.com | <b>SpecPoxy 3000</b><br>Type I, II, IV and V; Grade 3; Class B and C<br><b>approved</b><br>3/27/2019     |
| Unitex Chemicals / Dayton Superior<br>Holly Jergens<br>1125 Byers Road<br>Miamisburg OH 45342<br>hollyjergens@daytonsuperior.com | Phone: (937) 866-0711<br>Cell:<br>Fax:<br>www.daytonsuperior.com             | <b>Pro-Poxy 200</b><br>Type II; Grade 2; Class B and C<br><b>approved</b><br>6/22/2021                   |
| Unitex Chemicals / Dayton Superior<br>Holly Jergens<br>1125 Byers Rd.<br>Miamisburg OH 45342<br>hollyjergens@daytonsuperior.com  | Phone: (937) 866-0711<br>Cell:<br>Fax:<br>www.daytonsuperior.com             | <b>Pro-Poxy 300</b><br>Type I, II, IV and V; Grade 3; Class B and C<br><b>approved</b><br>1/14/2003      |
| Unitex Chemicals / Dayton Superior<br>Holly Jergens<br>1125 Byers Rd.<br>Miamisburg OH 45342<br>hollyjergens@daytonsuperior.com  | Phone: (937) 866-0711<br>Cell:<br>Fax:<br>www.daytonsuperior.com             | <b>Pro-Poxy 300 FAST</b><br>Type I, II, IV and V; Grade 3; Class B and C<br><b>approved</b><br>1/14/2003 |

**729.03.03 PAINT MARKING MATERIAL - EPOXY**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>  | <i>Remarks</i>  |
|--|--|---|
| Colorado Paint Company/Swarco<br>Marilou Bruce<br>2851 N. Walden Street<br>Aurora CO 80011<br>marilou.bruce@swarco.com   | Phone: (303) 388-9265<br>Cell: (303) 332-9216<br>Fax: (303) 388-0881<br>www.swarco.com/cpc                 | <b>1180</b><br>White: 1180 Part A<br>Yellow: 1186 Part A<br>Hardener: 1185 Part B<br><b>approved</b><br>3/23/2000<br>"Lead Free Yellow" contains organic yellow pigment.                            |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br>https://www.ennisflintamericas.com | <b>HPS-3</b><br>White: HPS-3 Part A<br>Yellow: HPS-3 Part A<br>Black: HPS-3 Part A<br>Hardener: HPS-3 Part B<br><b>approved</b><br>7/25/2002<br>"Lead Free Yellow" contains organic yellow pigment. |
| Epoplex<br>Chris Beadle<br>1000 East Park Avenue<br>Maple Shade NJ 08052<br>cbeadle@epoplex.com                          | Phone: (800) 822-6920<br>Cell: (302) 893-0009<br>Fax: (856) 779-2963<br>www.epoplex.com                    | <b>Epoplex LS50</b><br>White: LS50 Part A<br>Yellow: LS50 Part A<br>Hardener: LS50 Part B<br><b>approved</b><br>2/6/2003<br>"Lead Free Yellow" contains organic yellow pigment.                     |
| Epoplex<br>Chris Beadle<br>1000 East Park Avenue<br>Maple Shade NJ 08052<br>cbeadle@epoplex.com                          | Phone: (800) 822-6920<br>Cell: (302) 893-0009<br>Fax: (856) 779-2963<br>www.epoplex.com                    | <b>Epoplex LS60</b><br>White: LS60 Part A<br>Yellow: LS60 Part A<br>Hardener: LS60 Part B<br><b>approved</b><br>2/6/2003<br>"Lead Free Yellow" contains organic yellow pigment.                     |

**729.03.03 PAINT MARKING MATERIAL - EPOXY**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| Olin Poly-Carb<br>Solmaz Pirouz<br>4005 Technology Drive, Suite 1500<br>Angleton TX 77515<br>spirouz@olin.com | Phone: (330) 748-6407<br>Cell: (979) 480-4607<br>Fax:<br><br>https://olinpolycarb.com/         | <b>Mark 55.2</b><br>White: Mark 55.2 Part A<br>Yellow: Mark 55.2 Part A<br>Hardener: Mark 55.2 Part B<br>"Lead Free Yellow" contains organic yellow pigment. |
| Olin Poly-Carb<br>Solmaz Pirouz<br>4005 Technology Drive, Suite 1500<br>Angleton TX 77515<br>spirouz@olin.com | Phone: (330) 748-6407<br>Cell: (979) 480-4607<br>Fax:<br><br>https://olinpolycarb.com/         | <b>Mark 55.3</b><br>White: Mark 55.3 Part A<br>Yellow: Mark 55.3 Part A<br>Hardener: Mark 55.3 Part B<br>"Lead Free Yellow" contains organic yellow pigment. |
| Olin Poly-Carb<br>Solmaz Pirouz<br>4005 Technology Drive, Suite 1500<br>Angleton TX 77515<br>spirouz@olin.com | Phone: (330) 748-6407<br>Cell: (979) 480-4607<br>Fax:<br><br>https://olinpolycarb.com/         | <b>Mark 55.4</b><br>White: Mark 55.4 Part A<br>Yellow: Mark 55.4 Part A<br>Hardener: Mark 55.4 Part B<br>"Lead Free Yellow" contains organic yellow pigment. |
| Swarco/Colorado Paint Company<br>Ling Tan<br>2851 N. Walden Street<br>Aurora CO 80011<br>ling.tan@swarco.com  | Phone: (303) 388-9265<br>Cell: (919) 208-3360<br>Fax: (303) 388-0881<br><br>www.swarco.com/cpc | <b>MFUA-10</b><br>modified polyacrylate two-component<br>3180 White, 3186 Yellow, 3187 Black, 3185 catalyst  |

**729.03.04a PAINT MARKING MATERIAL - RAPID DRY WATERBORNE (ACRYLIC EMULSION)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>     | <i>Remarks</i>   |
|---|-------------------------|--|
| Arkema Incorporated<br>no contact information<br>provided OR required           | Phone:<br>Cell:<br>Fax: | <b>ENCOR DT 250</b><br>Type I  |
| Arkema Incorporated<br>no contact information<br>provided OR required           | Phone:<br>Cell:<br>Fax: | <b>ENCOR DT 400</b><br>Type II   |
| Dow Chemical/Rohm & Haas LLC<br>no contact information<br>available OR required | Phone:<br>Cell:<br>Fax: | <b>Fastrack 3427</b><br>Type I; prev Rhoplex Fastrack 3427; Bulk #10081323; Substance #101051012     |
| Dow Chemical/Rohm & Haas LLC<br>no contact information<br>available OR required | Phone:<br>Cell:<br>Fax: | <b>Fastrack HD-21A</b><br>Type II; prev Rhoplex Fastrack HD21A; Bulk #10076070; Substance #101084604 |

**729.03.04b PAINT MARKING MATERIAL - RAPID DRY WATERBORNE PAINT (TYPE I, TEMPORARY STRIPING FORMULATION)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>  |  |
|--|---|---|--|
| Colorado Paint Company/Swarco<br>Marilou Bruce<br>2851 N Walden Street<br>Aurora CO 80011<br>marilou.bruce@swarco.com        | Phone: (303) 388-9265<br>Cell: (303) 332-9216<br>Fax: (303) 388-0881<br><br>www.swarco.com/cpc                  | <b>W: 1160-NV Waterborne</b><br><b>Y: 1166-NV Waterborne</b>      | Fastrack 3427<br>W = White; Y = Yellow<br><br>approved<br>12/16/2011                         |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com     | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>W: Pervo Plastics 6000</b><br><b>Y: Pervo Plastics 6003</b>    | Fastrack 3427<br>W = White; Y = Yellow<br><br>approved<br>7/30/2002                          |
| International Coatings Company, Inc.<br>Amelia Nucup<br>13929 East 166th Street<br>Cerritos CA 90703<br>anucup@iccink.com    | Phone: (562) 926-1010<br>Cell:<br>Fax: (562) 926-9486<br><br>www.iccink.com                                     | <b>W: Line-Pro 5630</b><br><b>Y: Line-Pro 5640</b>                | Fastrack HD-21A<br>W = White; Y = Yellow<br><br>approved<br>7/24/2013                        |
| Ozark Materials, LLC<br>Derron Henderson<br>591 Glendale Ave.<br>Greenville AL 36037<br>derron@ozarkmaterials.net            | Phone: (334) 213-2995<br>Cell:<br>Fax: (334) 371-2302<br><br>www.ozarkmaterials.net                             | <b>Waterborne Standard</b><br><b>Paint (white and yellow)</b>     | Fastrack 3427<br><br>approved<br>3/27/2019   |
| Svevia USA, Inc.<br>Jason Martyn<br>14567 Rancho Vista Dr.<br>Fontana CA 92335<br>jason@roadmaxproducts.com                  | Phone: (909) 559-4134<br>Cell: (909) 957-4204<br>Fax:<br><br>https://www.roadmaxproducts.com/                   | <b>Roadmax Fastdry NDOT</b><br><b>Series</b>                      | Fastrack 3427<br>White = RMP-1000NV-1;<br>Yellow = RMP-1000NV-2<br><br>approved<br>6/22/2021 |
| Vista Paint Corporation<br>Steve Tetreault<br>2020 East Orangethorpe Ave.<br>Fullerton CA 92831<br>stetreault@vistapaint.com | Phone: (702) 539-8973<br>Cell: (714) 680-3800<br>Fax: (702) 359-6320<br><br>www.vistapaint.com                  | <b>On-Line Fast Dry 6900</b><br><b>Series: white/yellow/black</b> | Fastrack 3427<br><br>approved<br>7/22/2019   |

**729.03.04c PAINT MARKING MATERIAL - RAPID DRY WATERBORNE (TYPE II, PERMANENT STRIPING FORMULATION)**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>   |  |
|--|---|--|--|
| Colorado Paint Company/Swarco<br>Marilou Bruce<br>2851 N. Walden Street<br>Aurora CO 80011<br>marilou.bruce@swarco.com   | Phone: (303) 388-9265<br>Cell: (303) 332-9216<br>Fax: (303) 388-0881<br><br>www.swarco.com/cpc                  | <b>W: 1110-NV Ultra High</b><br><b>Y: 1116-NV Ultra High</b> | Fastrack HD-21A<br>W = White; Y = Yellow<br><br>approved<br>12/16/2011 |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>W: 982831 NVW-HD-M-1</b><br><b>Y: 982832 Nvy-HD-M-1</b>   | Fastrack HD-21A<br>W = White; Y = Yellow<br><br>approved<br>12/11/2002 |

**729.03.04c PAINT MARKING MATERIAL - RAPID DRY WATERBORNE (TYPE II, PERMANENT STRIPING FORMULATION)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>  |   |
|---|---|---|---|
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com  | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>W: 982851</b><br><b>Y: 982852</b>                      | Fastrack HD-21A<br>W = White; Y = Yellow<br>Product previously known as W: Pervo Plastics 6050 & Y: Pervo Plastics 6053<br><br>approved<br>7 /30/2002 |
| International Coatings Company, Inc.<br>Amelia Nucup<br>13929 East 166th Street<br>Cerritos CA 90703<br>anucup@iccink.com | Phone: (562) 926-1010<br>Cell:<br>Fax: (562) 926-9486<br><br>www.iccink.com                                     | <b>Line-Pro 5610 White</b><br><b>Line-Pro 5620 Yellow</b> | Fastrack HD-21A<br>Company contact: (562) 926-1010 ext 343<br><br>approved<br>11/19/2013  |
| Ozark Materials, LLC<br>Derron Henderson<br>591 Glendale Ave.<br>Greenville AL 36037<br>derron@ozarkmaterials.net         | Phone: (334) 213-2995<br>Cell:<br>Fax: (334) 371-2302<br><br>www.ozarkmaterials.net                             | <b>Waterborne Durable Paint (white and yellow)</b>        | Fastrack HD-21A<br><br>approved<br>12/17/2018   |
| Sherwin Williams Company<br>Paul Trautman<br>101 Prospect Avenue NW<br>Cleveland OH 44115<br>paul.trautmann@sherwin.com   | Phone: (216) 566-1733<br>Cell: (210) 861-2286<br>Fax: (216) 830-7721<br><br>www.sherwin-williams.com            | <b>W: TM2398</b><br><b>Y: TM2399</b>                      | Fastrack HD-21A<br>W = White; Y = Yellow<br><br>approved<br>7 /9 /2003  |
| Svevia USA, Inc.<br>Jason Martyn<br>14567 Rancho Vista Dr.<br>Fontana CA 92335<br>jason@roadmaxproducts.com               | Phone: (909) 559-4134<br>Cell: (909) 957-4204<br>Fax:<br><br>https://www.roadmaxproducts.com/                   | <b>Roadmax HI-BUILD Fastdry NDOT Series</b>               | Fastrack HD-21A<br>RMP-1100NV-2<br>White = RMP-1100NV-1; Yellow =<br>approved<br>9 /17/2020   |

**729.03.05 PAINT MARKING MATERIAL - POLYUREA**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>   | <b>Remarks</b>  |   |
|--|---|---|---|
| 3M Transportation Safety Division<br>Thanh-Huong Do<br>3M Center, 235-3W-052<br>St Paul MN 55144<br>ttdo@mmm.com         | Phone: (651) 733-1110<br>Cell: (702) 743-0012<br>Fax:<br><br>www.3m.com   | <b>3M All Weather Liquid Pavement Marking Series 5000</b> | Reflective media applied by Double Drop w/Reflective Element Method. Usage is restricted to Clark Co w/elevation ≤ 4,000 feet.<br><br>approved<br>3 /25/2016  |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>HPS-5</b>  | White: Part A<br>Yellow: Part A<br>Cross Linker: Part B<br>Double Drop w/Glass Spheres Method can be used statewide without restrictions.<br>Double Drop w/Reflective Element Method is restricted to Clark County w/elevations ≤ 4,000 feet.<br><br>approved<br>7 /25/2002           |
| Epoplex<br>Chris Beadle<br>1000 East Park Avenue<br>Maple Shade NJ 08052<br>cbeadle@epoplex.com                          | Phone: (800) 822-6920<br>Cell: (302) 893-0009<br>Fax: (856) 779-2963<br><br>www.epoplex.com                     | <b>Epoplex LS90</b>                                       | White: Part A<br>Yellow: Part A<br>Cross Linker: Part B<br>Reflective media applied by Double Drop w/Reflective Element Method is restricted to Clark Co w/elevation ≤ 4,000 feet.<br>Reflective media applied by Double Drop w/Glass Spheres statewide<br><br>approved<br>2 /6 /2003 |

**729.03.05 PAINT MARKING MATERIAL - POLYUREA**

| <b>Vendor Name / Address</b>   | <b>Product Name</b>  | <b>Remarks</b>   |
|--|--|--|
| Swarco Colorado Paint Company<br>Ling Tan<br>2851 N. Walden Street<br>Aurora CO 80011<br>ling.tan@swarco.com | Phone: (303) 388-9265<br>Cell: (919) 208-3360<br>Fax: (303) 388-0881<br><br>www.swarco.com/cpc | <b>MFUA 12</b><br>6180 White: Part A<br>6185 Crosslinker: Part B<br>6186 Yellow: Part A<br>6187 Black: Part A<br>Reflective media applied by Double Drop<br>w/Reflective Element Method is restricted to Clark<br>County w/elevation ≤ 4,000 feet. Double Drop applied<br>w/Glass Sphere statewide |

approved  
5 / 7 / 2013**732.03.01 PAVEMENT MARKING TAPE (TYPE I)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>  |
|---|---|---|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com                       | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br><br>www.3M.com/tcm          | <b>Series 270</b><br>Type I<br>white/yellow available           |
| Advance Traffic Markings<br>Raeleen Lucas<br>100 Patch Rubber Road<br>Weldon NC 27890<br>lucasco@ralucasco.com                    | Phone: (252) 536-2574<br>Cell: (714) 397-4428<br>Fax: (252) 536-4940<br><br>www.trafficmarkings.com | <b>Series 300</b><br>Type I<br>white/yellow available           |
| Advance Traffic Markings<br>Raeleen Lucas<br>100 Patch Rubber Road<br>Weldon NC 27890<br>lucasco@ralucasco.com                    | Phone: (252) 536-2574<br>Cell: (714) 397-4428<br>Fax: (252) 536-4940<br><br>www.trafficmarkings.com | <b>Series 400</b><br>Type I<br>white/yellow available           |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave.<br>Denver CO 80239<br>sdurkin@brite-line.com                         | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br><br>www.brite-line.com      | <b>Series 100</b><br>Type I<br>white/yellow available           |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave.<br>Denver CO 80239<br>sdurkin@brite-line.com                         | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br><br>www.brite-line.com      | <b>Series 200</b><br>Type I<br>white/yellow available           |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave.<br>Denver CO 80239<br>sdurkin@brite-line.com                         | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br><br>www.brite-line.com      | <b>Series Deltaline TWR</b><br>Type I<br>white/yellow available |
| Swarco Industries, LLC<br>Jonathan Knutson<br>270 Rutherford Lane / PO Box 89<br>Columbia TN 38401<br>jonathan.knutson@swarco.com | Phone: (503) 421-5227<br>Cell: (503) 421-5227<br>Fax: (503) 208-2785<br><br>www.swarco.com          | <b>Series Director 60</b><br>Type I<br>white/yellow available   |

approved  
5 / 6 / 2011approved  
4 / 29 / 2008approved  
4 / 29 / 2008approved  
10 / 10 / 2007approved  
10 / 10 / 2007approved  
10 / 10 / 2007approved  
2 / 17 / 2004

**732.03.02 PAVEMENT MARKING TAPE (TYPE II)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>   |
|--|---|--|
| Advance Traffic Markings<br>Raeleen Lucas<br>100 Patch Rubber Road<br>Weldon NC 27890<br>lucasco@ralucasco.com | Phone: (252) 536-2574<br>Cell: (714) 397-4428<br>Fax: (252) 536-4940<br>www.trafficmarkings.com | <b>Series 300</b><br>Type II<br>white/yellow available<br>approved<br>5 /2 /2008           |
| Advance Traffic Markings<br>Raeleen Lucas<br>100 Patch Rubber Road<br>Weldon NC 27890<br>lucasco@ralucasco.com | Phone: (252) 536-2574<br>Cell: (714) 397-4428<br>Fax: (252) 536-4940<br>www.trafficmarkings.com | <b>Series 400</b><br>Type II<br>white/yellow available<br>approved<br>4 /29/2008           |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave.<br>Denver CO 80239<br>sdurkin@brite-line.com      | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br>www.brite-line.com      | <b>Series 900</b><br>Type II<br>white/yellow available<br>approved<br>2 /2 /2010           |
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave.<br>Denver CO 80239<br>sdurkin@brite-line.com      | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br>www.brite-line.com      | <b>Series Deltaline XRP</b><br>Type II<br>white/yellow available<br>approved<br>2 /2 /2010 |

**732.03.03 PAVEMENT MARKING TAPE (TYPE IV)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>  |
|--|---|---|
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com    | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br>www.3M.com/tcm          | <b>Series 270</b><br>Type IV<br>IES is a standard high performance optic<br>WR ES is a standard high performance, wet reflective optics<br>approved<br>5 /6 /2011                     |
| 3M Transportation Safety Division<br>Eric Dornak<br>PO Box 231393<br>Las Vegas NV 89105<br>ejdornak@mmm.com    | Phone: (800) 553-1380<br>Cell: (702) 743-0012<br>Fax: (651) 732-8435<br>www.3M.com/tcm          | <b>Series 380AW and Series 380IES</b><br>Type IV<br>IES is a standard high performance optic<br>WR ES is a standard high performance, wet reflective optics<br>approved<br>5 /6 /2011 |
| Advance Traffic Markings<br>Raeleen Lucas<br>100 Patch Rubber Road<br>Weldon NC 27890<br>lucasco@ralucasco.com | Phone: (252) 536-2574<br>Cell: (714) 397-4428<br>Fax: (252) 536-4940<br>www.trafficmarkings.com | <b>Series 300</b><br>Type IV white/yellow available<br>approved<br>10/19/2012   |
| Advance Traffic Markings<br>Raeleen Lucas<br>100 Patch Rubber Road<br>Weldon NC 27890<br>lucasco@ralucasco.com | Phone: (252) 536-2574<br>Cell: (714) 397-4428<br>Fax: (252) 536-4940<br>www.trafficmarkings.com | <b>Series 400</b><br>Type IV<br>approved<br>4 /29/2008  |

**732.03.03 PAVEMENT MARKING TAPE (TYPE IV)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>  | <i>Remarks</i>   |
|---|--|--|
| Brite Line Technologies<br>Shea Durkin<br>10660 E. 51st Ave.<br>Denver CO 80239<br>sdurkin@brite-line.com | Phone: (303) 375-1293<br>Cell: (720) 217-1747<br>Fax: (303) 375-8557<br>www.brite-line.com | <b>Series Deltaline XRP</b><br>Type IV<br>approved<br>2 / 2 / 2010 |

**732.03.04a PAVEMENT MARKINGS (HOT APPLIED THERMOPLASTIC)**

| <i>Vendor Name / Address</i>   | <i>Product Name</i>   | <i>Remarks</i>  |
|--|---|---|
| Crown USA, Inc.<br>Jean Elliott<br>35 Industrial Park Drive<br>Woodbury GA 30293<br>jelliott@crownthermo.com             | Phone: (706) 553-9500<br>Cell: (800) 457-6267<br>Fax: (866) 553-9501<br>www.crownthermo.com                 | <b>Ecotherm Yellow Alkyd</b><br>Yellow Lead free<br>approved<br>10/23/2013  |
| Crown USA, Inc.<br>Jean Elliott<br>35 Industrial Park Drive<br>Woodbury GA 30293<br>jelliott@crownthermo.com             | Phone: (800) 457-6267<br>Cell: (706) 553-9500<br>Fax: (706) 553-9501<br>www.crownthermo.com                 | <b>TuffLine Alkyd</b><br>White<br>approved<br>10/14/2004  |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br>https://www.ennisflintamericas.com/ | <b>W: 885555 Alkyd Thermoplastic</b><br><b>Y: 884685 Alkyd</b><br>Lead free<br>W = White; Y = Yellow<br>approved<br>9 / 30 / 2009   |
| Ozark Materials, LLC<br>Derron Henderson<br>591 Glendale Ave.<br>Greenville AL 36037<br>derron@ozarkmaterials.net        | Phone: (334) 213-2995<br>Cell:<br>Fax: (334) 371-2302<br>www.ozarkmaterials.net                             | <b>ThermoAccel Thermoplastic</b><br>White and yellow. Product previously known as Accel Thermoplastic.<br>approved<br>3 / 27 / 2019 |
| Ozark Materials, LLC<br>Derron Henderson<br>591 Glendale Ave.<br>Greenville AL 36037<br>derron@ozarkmaterials.net        | Phone: (334) 213-2995<br>Cell:<br>Fax: (334) 371-2302<br>www.ozarkmaterials.net                             | <b>Thermoplastic</b><br>White and yellow.<br>approved<br>3 / 27 / 2019  |

**732.03.04b PAVEMENT MARKINGS (PREFORMED THERMOPLASTIC)**

| <i>Vendor Name / Address</i>  | <i>Product Name</i>   | <i>Remarks</i>   |
|---|---|--|
| Crown USA, Inc.<br>Jean Elliott<br>600 Poplar Drive<br>Thomaston GA 30286<br>jelliott@crownthermo.com | Phone: (800) 457-6267<br>Cell: (706) 553-9500<br>Fax: (706) 553-9501<br>www.crownthermo.com | <b>Tuff-Mark</b><br>select 0.125" / 125 mil thick product<br>approved<br>7 / 22 / 2019 |

**732.03.04b PAVEMENT MARKINGS (PERFORMED THERMOPLASTIC)**

| <b>Vendor Name / Address</b>  | <b>Product Name</b>   | <b>Remarks</b>  |                        |
|---|---|---|------------------------|
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com        | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>HotTape</b><br>select 0.125" / 125 mil thick product   | approved<br>5 /3 /2001 |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com        | Phone: (800) 331-8118<br>Cell: (336) 477-8363<br>Fax: (336) 475-7900<br><br>https://www.ennisflintamericas.com/ | <b>PreMark</b><br>select 0.125" / 125 mil thick product   | approved<br>5 /3 /2001 |
| Ennis-Flint, Inc.<br>QPL Administrator<br>4161 Piedmont Pkwy, Ste. 370<br>Greensboro NC 27410<br>qpladmin@ennisflint.com        | Phone: (336) 477-8363<br>Cell: (800) 311-8118<br>Fax: (336) 475-7900<br><br>http://www.ennisflintamericas.com   | <b>PreMarkXF</b><br>select 0.125" / 125 mil thick product   | approved<br>9 /17/2019 |
| Geveko Markings, Inc.<br>Michael Brown<br>1883 New Harvest Road<br>Gainesville GA 30507<br>mbrown@gevekomarkings.com            | Phone: (770) 847-9410<br>Cell:<br>Fax: (470) 226-3394<br><br>www.geveko-markings.us                             | <b>OPTAMARK</b><br>select 0.125" / 125 mil thick product  | approved<br>12/20/2017 |
| Ozark Materials, LLC<br>Derron Henderson<br>591 Glendale Ave.<br>Greenville AL 36037<br>derron@ozarkmaterials.net               | Phone: (334) 213-2995<br>Cell:<br>Fax: (334) 371-2302<br><br>www.ozarkmaterials.net                             | <b>Preformed Thermoplastic</b><br>select 0.125" / 125 mil thick product   | approved<br>12/17/2018 |
| Preform, LLC<br>Susan Wacha<br>3845 Deerpark Blvd.<br>Elkton FL 32033<br>susan@preform.us                                       | Phone: (888) 826-5161<br>Cell:<br>Fax:<br><br>www.preform.us  | <b>PREFORM</b><br>select 0.125" / 125 mil thick product. Alternate contact is Roxanne Brown (rox@preform.us), direct# 512-736-5282. | approved<br>6 /22/2021 |
| Swarco Industries, LLC<br>Jonathan Knutson<br>270 Rutherford Ln / PO Box 89<br>Columbia TN 38401<br>jonathan.knutson@swarco.com | Phone: (503) 421-5227<br>Cell: (503) 421-5227<br>Fax: (503) 208-2785<br><br>www.swarco.com/americas             | <b>Preformed Thermoplastic</b><br>select 0.125" / 125 mil thick product   | approved<br>7 /2 /2018 |

**QPL NOTES**  
**December 20, 2021**

If specified in a contract's Special Provisions under the "Notice to Contractors", contractors are required to use that Qualified Products List (QPL). This dated QPL is distributed to the contractors along with contract documentation.

The QPL is maintained by the NDOT Research Section. Products will remain on the QPL as long as their performance is satisfactory and the product vendor/manufacturer complies with NDOT requirements. Poor performance in the field will result in suspension and/or removal at any time from the QPL, as per established NDOT product evaluation procedures. The NDOT Product Evaluation Coordinator must be notified of any modification of material, composition or configuration of a product or change in manufacturer's name and address in a timely manner (defined as within 30 days). Failure to disclose this information may result in suspension of approval and/or removal from the QPL.

The evaluation of a product listed on the QPL does not constitute an endorsement by the Department nor does it imply a commitment to purchase, recommend, or specify the product in the future.

If you have any questions regarding QPL and/or product evaluation process, contact Sabra Gilbert-Young, Product Evaluation Coordinator, via e-mail at [sgilbert-young@dot.nv.gov](mailto:sgilbert-young@dot.nv.gov) or by telephone at (775) 888-7894.

## Past Editions of the NDOT QPL

NDOT typically publishes a QPL four times a year but may do so at any time to capture significant changes. If the QPL you are trying to find is no longer available on the NDOT website, please contact the [Product Evaluation Coordinator](#) to request the specific QPL you are looking for.

|              |   |
|--------------|---|
| <b>2022:</b> | March 14  |
| <b>2021:</b> | December 20, September 21, June 22, April 15, March 11,   |
| <b>2020:</b> | December 10, September 17, June 11, April 1   |
| <b>2019:</b> | December 31, September 17, July 22, May 2, March 29   |
| <b>2018:</b> | December 31, December 17, September 26, July 2, June 30, April 18, March 28, February 9   |
| <b>2017:</b> | December 27, October 2, June 27, April 25   |
| <b>2016:</b> | December 6, September 30, June 22, May 2, April 13, March 17  |
| <b>2015:</b> | May 14  |
| <b>2014:</b> | December 24, September 9, June 9, February 7, January 3   |
| <b>2013:</b> | September 10, June 25, February 8   |
| <b>2012:</b> | December 7, September 18, May 17, April 5, March 2, February 8, January 4   |
| <b>2011:</b> | December 5, November 29, October 14, September 23, August 8, August 3, <b>July 22</b> , June 9, June 2, May 27, April 14, April 6, April 5, March 31, March 29, March 21, January 25, January 6 |
| <b>2010:</b> | December 10, October 28, August 23, July 20, July 7, June 7, May 7, April 15, March 2, February 22  |
| <b>2009:</b> | December 3, October 8, June 22, May 1, April 14, March 24, March 17   |
| <b>2008:</b> | November 12, November 4, September 3, July 16, June 2, April 4, March 31, March 6, January 22   |
| <b>2007:</b> | November 27, November 20, September 14, August 10, July 6, May 21, March 30, February 21  |
| <b>2006:</b> | November 14, October 23, August 1, June 22, May 22, May 8, March 28, March 23, February 21, January 19  |
| <b>2005:</b> | <b>November 10, August 29, February 9</b>   |
| <b>2004:</b> | <i>None known</i>   |
| <b>2003:</b> | <b>May 22, March 23</b>   |
| <b>2002:</b> | <b>May 30</b>   |
| <b>2001:</b> | November 30   |

QPLs displayed in **red** were not previously displayed on the Product Evaluation webpage. While the Product Evaluation program welcomes inquiries it can only provide a specific QPL that a product appeared on. It cannot answer questions regarding which products were used on a specific project or why one product was selected instead of another. Inquiries of that nature are best directed to the contractor who was awarded that work.

# STATE OF NEVADA

STEVE SISOLAK  
GOVERNOR

TERRY REYNOLDS  
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SHANNON M. CHAMBERS  
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## 2022 PREVAILING WAGE RATES WASHOE COUNTY

**DATE OF DETERMINATION: October 1, 2021**

**APPLICABLE FOR PUBLIC WORKS PROJECTS OVER \$100,000 BID/AWARDED  
OCTOBER 1, 2021 THROUGH SEPTEMBER 30, 2022**

Pursuant to Nevada Revised Statutes (NRS) section 338.030(9)(a), "If the contract for a public work: (a) Is to be awarded pursuant to a competitive bidding process, the prevailing wages in effect at the time of the opening of the bids for a contract for a public work must be paid until the completion or termination of the contract or for the 36 months immediately following the date on which the bids were opened, whichever is earlier." For contracts not awarded pursuant to competitive bidding, please see NRS section 338.030(9)(b). However, if a project exceeds 36 months new wage rates may apply pursuant to NRS section 338.030(9)(10). Prevailing Wage Rates may be adjusted based on Collective Bargaining Agreements (CBA's) and adjustments to those agreements. (See NRS 338.030)

**PREVAILING WAGE DETERMINATIONS** - NRS 338.030 subsection 7, the wages so determined must be:

- (a) Issued by the Labor Commissioner on October 1 of the odd-numbered year in which the survey was conducted and, except as otherwise provided in subsection 8, remain effective for 2 years after that date; and
- (b) Made available by the Labor Commissioner to any public body which awards a contract for any public work.

Senate Bill 243 passed during the 80th Nevada Legislative Session (2019) and set forth in NRS section 338.025, now requires the Labor Commissioner to calculate the Prevailing Wage Rates by region. NRS section 338.025 Prevailing wage regions. For the purpose of determining the prevailing rate of wages pursuant to NRS section 338.030, four prevailing wage regions are hereby established in this State as follows:

1. The Washoe Prevailing Wage Region consisting of Washoe County;
2. The Northern Rural Prevailing Wage Region consisting of Carson City and the counties of Churchill, Douglas, Elko, Eureka, Humboldt, Lander, Lyon, Mineral, Storey, Pershing and White Pine;
3. The Clark Prevailing Wage Region consisting of Clark County; and
4. The Southern Rural Prevailing Wage Region consisting of the counties of Esmeralda, Lincoln and Nye.

**OBJECTIONS TO PREVAILING WAGE DETERMINATIONS** – NRS section 338.030 subsection 2. Objections to the Prevailing Wage Determinations must be submitted within 30 days after the Prevailing Wage Determinations are issued.

Pursuant to NRS section 338.030 subsection 8, the Labor Commissioner will review the prevailing wage rates in each even-numbered year to determine if adjustments should be made.

**As Amendments/Revisions are made to the wage rates, they will be posted on the website for each respective Region. Please review regularly for any Amendments/Revisions that are posted or contact our offices directly for further assistance.**

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| <a href="#">Cement Mason</a> .....  | 9  |
| <a href="#">Electrician – Communication Technician</a> .....                    | 10 |
| <a href="#">Electrician - Lineman</a> .....                                     | 12 |
| <a href="#">Electrician – Neon Sign</a> .....                                   | 14 |
| <a href="#">Electrician - Wireman</a> .....                                     | 15 |
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| <a href="#">Hod Carrier – Plasterer Tender</a> .....                            | 24 |
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| <a href="#">Laborer</a> .....   | 29 |
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**NRS section 338.010 subsection (25) “Wages” means:**

- a) The basic hourly rate of pay; and
- b) The amount of pension, health and welfare, vacation and holiday pay, the cost of apprenticeship training or other similar programs or other bona fide fringe benefits which are a benefit to the worker.

**NRS section 338.035 Bona Fide Fringe Benefits** - Discharge of part of obligation of contractor or subcontractor engaged on public work to pay wages by making certain contributions in name of workman. “Bona fide fringe benefit” means a benefit in the form of a contribution that is made not less frequently than monthly to an independent third party pursuant to a fund, plan or program: (a) Which is established for the sole and exclusive benefit of a worker and his or her family and dependents; and (b) For which none of the assets will revert to, or otherwise be credited to, any contributing employer or sponsor of the fund, plan or program. The term includes, without limitation, benefits for a worker that are determined pursuant to a collective bargaining agreement and included in the determination of the prevailing wage by the Labor Commissioner pursuant to NRS section 338.030.

Please see NRS sections 338.010, 338.020, and 338.035 and Nevada Administrative Code (NAC) sections 338.0097 and 338.092 through 338.100 for further details on “Bona fide fringe benefits” and reporting requirements and exceptions.

**Job Descriptions for Recognized Classes of Workers**

Regarding job descriptions for public works projects, please take notice of the following:

1. The job description links have been redacted to include ONLY the scope of work for the craft.
2. Pursuant to NAC section 338.0095(1)(a) - A worker employed on a public work must be paid the applicable prevailing rate of wage for the type of work that the worker actually performs on the public work and in accordance with the recognized class of the worker.
3. The work description for a particular class is not intended to be jurisdictional in scope.
4. Any person who believes that a type of work is not classified, or who otherwise needs clarification pertaining to the recognized classes or job descriptions, shall contact the Labor Commissioner in writing for a determination of the applicable classification and pay rate for a particular type of work.
5. The job descriptions set forth or referenced herein supersede any, and all descriptions previously agreed upon by the Labor Commissioner in any settlement agreements or stipulations arising out of contested matters.
6. The following specific provisions, where applicable, shall prevail over any general provisions of the job descriptions:
  - Amendments to the prevailing wage determinations.
  - Group Classifications and/or descriptions recognized by the Labor Commissioner and included with wage determinations for a particular type of work in a particular county.

**Zone Rates**

The zone rate has been added to each applicable craft.

**Premium Pay** Premium pay for hours worked in excess of a shift of 8 hours or 12 hours, or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

Craft: AIR BALANCE TECHNICIAN (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |       |
|---|-------|
| Air Balance Technician Journeyman.....      | 68.43 |
| Air Balance Technician-Foreman.....         | 72.45 |
| Air Balance Technician-General Foreman..... | 76.47 |

**ADD ZONE RATE**

In addition to AIR BALANCE rates add the applicable amounts per hour, calculated based on a road from the courthouse in Reno, Nevada:

|        |                 |  |
|--------|-----------------|--|
| Zone 1 | 0 to 75 miles   | \$0.00   |
| Zone 2 | 75 to 100 miles | \$5.00   |
| Zone 3 | Over 100 miles  | \$10.00 the employee shall be provided reasonable lodging and meal expenses. |

**ADD PREMIUM PAY**

All hourly rates are subject to Over Time (One and one half 1 ½) of the Regular rate:

1. For all hours worked over Eight (8) Hours in one day or shift.
2. For the first Eight (8) Hours work on Saturday.

All hourly rates are subject to Double Time of the Regular Rate:

1. For all hours worked over Ten (10) Hours in one day or shift.
2. For all hours worked over Eight (8) Hours on Saturday.
3. For all hours worked on Sunday, New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day.

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day

**JOB DESCRIPTION:** Excerpt from Sheet Metal Local 26 Collective Bargaining Agreement

(a) manufacture, fabrication, assembling, handling, erection, installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or nonferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air veyor systems, exhaust systems, and air-handling systems regardless of material used including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct lining; (c) testing and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches whether manually drawn or computer assisted used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches; (e) metal roofing; and (f) all other work included in the jurisdictional claims of International Association of Sheet Metal, Air, Rail and Transportation Workers.

Craft: ALARM INSTALLER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Alarm Installer.....32.77

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Installing or testing electrical protective signaling systems used to provide notification of fire, burglary or other irregularities on the premises of the subscriber of the system;
2. Installing of wiring and signaling units;
3. Repairing electrical protective signaling systems
4. Starting up, programming and documenting systems;

Craft: BOILERMAKER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                          |       |
|--------------------------|-------|
| Boilermaker.....         | 65.94 |
| Boilermaker Foreman..... | 65.94 |
| Boilermaker General..... | 65.94 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Constructing, assembling, maintaining and repairing stationary steam boilers and boiler house auxiliaries;
2. Aligning structures or plate sections to assemble boiler frame tanks or vats;
3. Assisting in the testing of assembled vessels, directing cleaning of boilers and boiler furnaces;
4. Inspecting and repairing boiler fittings, including, without limitation, safety valves, regulators, automatic-control mechanisms, water columns and auxiliary machines.

Craft: BRICKLAYER (Union Rate)  
**Prevailing wage rates include the base rate as well as all applicable fringes**

Bricklayer Journeyman.....46.91  
 Bricklayer Foreman.....48.16

**Add Zone pay**

|      |                   |        |
|------|-------------------|--------|
| Zone | 75 miles and Over | \$8.13 |
|------|-------------------|--------|

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between No, NV Masonry Contractors and LIUNA Local 169

This shall apply to and cover the work of Brick/Block Masonry, Stone Masonry, Artificial Masonry Marble Masonry.

Craft: CARPENTER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                |       |
|--------------------------------|-------|
| Carpenter Journeyman.....      | 53.16 |
| Carpenter Foreman.....         | 56.52 |
| Carpenter General Foreman..... | 60.22 |

**ADD ZONE RATE**

(Building and Heavy Highway and Dam Construction)

In addition to CARPENTER rates add the applicable amounts per hour, calculated from the Washoe County Courthouse:

|        |                  |   |
|--------|------------------|---|
| Zone 1 | 0 to 75 miles    | \$0.00 (Road miles from the Washoe County Courthouse) |
| Zone 2 | 75 to 150 miles  | \$4.00  |
| Zone 3 | 150 to 300 miles | \$5.00  |
| Zone 4 | Over 300 miles   | \$6.00  |

**ADD PREMIUM PAY**

Any work performed over eight (8) hours per day and on Saturdays shall be compensated at time and one-half (1-1/2x) the appropriate hourly rate. All work performed on Sundays, holidays and over twelve (12) hours in one (1) day shall be compensated at two times (2x) the appropriate hourly rate. In the event a day's work is lost because of severe weather conditions or major mechanical breakdown, work may be performed on a voluntary basis on a Saturday at the straight time hourly rate for eight (8) hours provided the straight time hours worked in one (1) week do not exceed forty (40) hours.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4th of July, Labor Day, Admission's Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION** Excerpt from Southwest Regional Council of Carpenters and Affiliated Local Unions Master Labor Agreement

(1) All building construction, including but not limited to the construction, erection, alteration, repair, modification, demolition, addition, or improvement in whole or in part of any building structure. All rigging of Carpenters', and Piledrivers' materials.

(2) All heavy, highway and engineering construction, including but not limited to the construction, improvement, modification and demolition of all or any part of the streets, highways, bridges, viaducts, railroads, tunnels, airports, water supply, irrigation, flood control and draining systems, sewers and sanitation projects, dams, power houses, refineries, aqueducts, canals, river and harbor projects, wharves, docks, breakwaters, jetties, quarrying of breakwaters or rip rap stone or operations incidental to such heavy construction work and whether such work is above or below the water line level.

(3) The character of such work covered by this Agreement shall include but not be limited to all carpenter, concrete form work, shoring, drywall, metal stud, drywall finishing, plaster, scaffold, modular furniture, trade show work, insulation, acoustical, and lathing work on such construction

(4) All interior and/or exterior wall finish work, including EIFS and other wet wall finish work.

Craft: CEMENT MASON (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                |       |
|--------------------------------|-------|
| Cement Mason - Journeyman..... | 47.12 |
| Cement Mason - Foreman.....    | 50.57 |

**ADD ZONE RATE**

In addition to CEMENT MASON rates add the applicable amounts per hour, calculated from the Reno Post Office, 50 So. Virginia St., Reno, Nevada:

|        |               |        |
|--------|---------------|--------|
| Zone 1 | 0 to 90 miles | \$0.00 |
| Zone 2 | over 90 miles | \$6.00 |

**ADD PREMIUM PAY**

OVERTIME – Any worked performed over eight (8) hours per day shall be compensated at time and one half the hourly rate. All work performed after twelve (12) consecutive hours shall be paid at double the hourly rate. All worked performed on Saturdays shall be compensated at time and one half the hourly rate. All Sunday and Holiday work shall be paid for at double time.

**RECOGNIZED HOLIDAYS**

New Year’s Day, Memorial Day, Independence Day, Labor Day, Admissions Day, Thanksgiving Day and the following Friday following Thanksgiving Day, and Christmas

**JOB DESCRIPTIONS**

1. All building construction, including but not limited to the construction, erection, alteration, repair, modification, demolition, addition, or improvement in whole or in part of any building structure.

2. All heavy, highway and engineering construction, including but not limited to construction, improvement, modification, demolition, of all or any part of streets and highways (including sidewalks, curbs and gutters), bridges, viaducts, rail roads, tunnels, airports, water supply, irrigation, flood control and drainage systems, sewers and sanitation projects, dams, power houses, refineries, aqueducts, canals, river and harbor projects, wharves, docks, breakwaters, jetties, quarrying of breakwater or rip-rap stone, or operation incidental to such heavy construction work.

3. The work to be performed by Cement Masons shall include but not be limited to the following, when tools of the Cement Masons trade are used or required:

Setting screeds, screed pins, curb forms and curb and gutter forms, rodding, spreading and tamping concrete, hand application of curing compounds, applying topping (wet or dry) colors or grits; using Darby and push floats, hand troweling or hand floating; marking edging, brooming or brushing, using base cove or step tools; chipping, and stoning, patching or sacking; dry packing; spreading and finishing gypsum, operating mechanical finishers (concrete) such as Clary, Jackson, Bidwell Bridge Deck Paver or similar types; grinding machines; troweling machines, floating machines powered concrete saws; finishing of epoxy and resin materials, bush hammering and exposed finishes for architectural work.

Operation of skill saw, chain saw, Laser Screed, Laser Level, Curb and Slipform machines, Epoxy Type Injection pumps, stamps or other means of texturing, any new devices, which are beneficial to the construction of or with concrete or related products.

Craft: ELECTRICIAN COMMUNICATION TECHNICIAN (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                               |       |
|-------------------------------|-------|
| Communication Installer.....  | 41.15 |
| Communication Technician..... | 45.78 |
| Senior Technician .....       | 48.87 |

**ADD ZONE RATE**

In addition to Electrician Communication Tech rates add the applicable amounts per hour, calculated from the Washoe County Courthouse:

|        |                   |         |
|--------|-------------------|---------|
| Zone 1 | 0 to 70 miles     | \$0.00  |
| Zone 2 | 70 to 90 miles    | \$8.00  |
| Zone 3 | 90 miles and over | \$10.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For the first eight (8) hours worked on Saturday

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over eight (10) hours in one day or shift.
2. For any hours worked on Sunday
3. For any hours worked on Holidays

**Shift Rates**

1. Swing shift to be paid at seventeen-point three (17.3) percent the regular straight time rate for hours between 4:30 p.m. and 1:00 a.m.
2. Graveyard shift to be paid at thirty-one-point four (33.4) percent the regular straight time rate for hours between 12:30 a.m. and 9:00 a.m.
3. Shifts are established for at least five (5) consecutive days or double the regular straight time rate shall be paid.

\*\*Note – Double the straight time rate is the max rate paid. (No pyramiding of overtime rates)

**JOB DESCRIPTION:**

The work covered by this Agreement shall include the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms and low voltage master clock systems.

- A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS 1. Background-foreground music 2. Intercom and telephone interconnect systems 3. Telephone systems 4. Nurse call systems 5. Radio page systems 6. School intercom and sound systems 7. Burglar alarm systems 8. Low-voltage

master clock systems 9. Multi-media/multiplex systems 10. Sound and musical entertainment systems  
11. RF Systems 12. Antennas and Wave Guide

B. FIRE ALARM SYSTEMS \* 1. Installation, wire pulling and testing

C. Television and Video Systems 1. Television monitoring and surveillance systems 2. Video security systems 3. Video entertainment systems 4. Video educational systems 5. Microwave transmission systems 6. CATV and CCTV

D. Security Systems 1. Perimeter security systems 2. Vibration sensor systems 3. Card access systems  
4. Access control systems 5. Sonar/Infrared monitoring equipment

E. COMMUNICATION SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS (IN THE SCOPE)  
1. SCADA (Supervisory Control and Data Acquisition) 2. PCM (Pulse Code Modulation) 3. Inventory Control Systems 4. Digital Data Systems 5. Broadband and Baseband and Carriers 6. Point of Sale Systems 4 7. VSAT Data Systems 8. Data Communication Systems 9. RF and Remote-Control Systems 10. Fiber Optic Data Systems

Craft: ELECTRICIAN LINEMAN/GROUNDMAN/HEAVY EQUIPMENT OPERATOR  
(Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                              |       |
|------------------------------|-------|
| Electrician-Groundman.....   | 56.09 |
| Lineman-Journeyman.....      | 81.13 |
| Lineman-Foreman.....         | 87.80 |
| Lineman-General Foreman..... | 94.54 |
| Lineman-Equipment Man.....   | 67.81 |

**ADD ZONE RATE**

Electrician Lineman/Groundman/Heavy Equipment Operator, rates, add the applicable amounts per Day, Road Miles from the Employee's Residence to the Reporting Location:

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**RECOGNIZED HOLIDAYS**

New Year's Day, Martin Luther King Holiday, President's Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:**

Outside, overhead and underground construction and maintenance work on electrical transmission lines, switch yards, substations and distribution systems which shall include:

1. Pole line work (whether built of wood, metal or other material): the digging and back-filling of holes for poles or anchors (by hand or mechanical equipment); the loading or unloading, handling, sorting and moving of materials; the assembly or erection of all materials including the guying, stringing of conductors and fiber optics or other work necessary on through to the ultimate completion of such pole work.

2. Steel or metal structures used for the purpose of carrying electrical wire, conductors, or equipment (this includes transmission towers, outdoor substations, switch racks, or similar electrical structures); the moving of men, tools or equipment; the loading or unloading, handling, sorting and moving of materials; the assembly and erection of all materials used on the job site, including the assembly of the grillage and foundations, on through to the ultimate completion of such structures. Work covered shall include the grounding of all such structures except the bonding of stub-angle to rebar cage; the stringing and installation of wires, cables and insulators or other electrical equipment suspended from structure; also the handling and placing of transformers or O.C.B.'s and other related electrical equipment.

The moving of men, tools or equipment; the loading or unloading, handling, sorting and moving of materials; the assembly of all electrical materials on race-ways such as ducts, shall be performed by workmen under the Agreement. This shall also include CIC (cable in conduit), CC (coillable conduit), the placing of fish wire, the pulling of cables or wires through such race-ways, installing and making up of termination and the splicing of such conductors.

Street lighting systems where such work properly comes under the outside jurisdiction shall be handled in the same manner as pole line construction.

Installing and maintaining the catenary and trolley work and bonding of rails shall be handled in the same manner as pole line, and steel construction.

In connection with all of the above items, it is understood the scope of this Agreement shall include not only new installation work but shall also govern the repair, maintenance or dismantling of such structures, lines or equipment; the handling and operating of all equipment used to transport men, tools and/or materials on the job site as well as the equipment used to move, raise or place materials used in the Outside Branch of the Electrical Industry shall be performed by workmen under this Agreement unless otherwise excluded herein.

Craft: ELECTRICIAN – NEON SIGN  
(Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Electrician Neon Sign Journeyman.....35.92

**ELECTRICIAN-NEON SIGN**, includes but is not limited to:

- 1. Installing, servicing and repairing plastic, neon and illuminated signs;
- 2. Ascending ladders or operating hydraulic or electric hoist to install, service, or examine sign to determine cause of malfunction;
- 3. Wiring, rewiring or removing defective parts and installing new parts using electrician's tools;
- 4. Removing sign or part of sign for repairs, such as structural fabrication, scroll repair, or transformer repair;

Craft: ELECTRICIAN WIREMAN (Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

|                              |       |
|------------------------------|-------|
| Wireman.....                 | 63.45 |
| Wireman-Cable Splicer.....   | 67.82 |
| Wireman Forman.....          | 67.82 |
| Wireman General Foreman..... | 72.20 |

**ADD ZONE RATE**

In addition to ELECTRICIAN-Wireman, rates, add the applicable amounts per hour, calculated from Washoe County Courthouse, Reno Nevada:

|        |                   |         |
|--------|-------------------|---------|
| Zone 1 | 0 to 70 miles     | \$0.00  |
| Zone 2 | 70 to 90 miles    | \$8.00  |
| Zone 3 | 90 miles and over | \$10.00 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For the first eight (8) hours worked on Saturday

Double the regular straight time hourly rate shall be paid for all time:

3. For all hours worked over ten (10) hours in one day or shift.
4. For any hours worked on Sunday
5. For any hours worked on Holidays

**Shift Rates**

1. Swing shift to be paid at seventeen-point three (17.3) percent the regular straight time rate for hours between 4:30 p.m. and 1:00 a.m.
2. Graveyard shift to be paid at thirty-one-point four (33.4) percent the regular straight time rate for hours between 12:30 a.m. and 9:00 a.m.
3. Shifts are established for at least five (5) consecutive days or double the regular straight time rate shall be paid.

\*\*Note – Double the straight time rate is the max rate paid. (No pyramiding of overtime rates)

**RECOGNIZED HOLIDAYS**

New Year’s Day, Memorial Day, Independence Day, Labor Day, Admission Day, Veteran’s Day, Thanksgiving Day, Friday following Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between NECA and Local Union 401, IBEW

All electrical construction, installation, or erection work including fabrication or prefabrication of boxes, brackets, bends and nipples and all electrical maintenance thereon including the final running tests. This shall include the installation and maintenance of temporary wiring and the installation of all electrical lighting, heat and power equipment, installation of all raceway systems, including underground conduits and all supports, underground utility conduits, photovoltaic power generation systems, wind power generation systems and geothermal power generating systems. Further all salvage of electrical work shall be included.

Craft: ELEVATOR CONSTRUCTOR (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |        |
|---|--------|
| Elevator Constructor-Journeyman Mechanic.....           | 113.70 |
| Elevator Constructor-Journeyman Mechanic In Charge..... | 123.43 |

**ADD PREMIUM PAY**

Work performed on Construction Work on Saturdays, Sundays and before and after 30 the regular working day on Monday to Friday, inclusive, shall be classed as overtime, and paid for at double the rate of single time.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement of International Union of Elevator Constructors

The handling and unloading of all equipment coming under the jurisdiction of the Elevator Constructor, from the time such equipment arrives at or near the building site, shall be handled and unloaded by the Elevator Constructors. Mechanical equipment such as a forklift or truck mounted swing boom may be used by the Elevator Constructors. A derrick, crane or material hoist can be used under the supervision of Elevator Constructors to handle and unload the heavy material described in Par. 5(a). Where unusual conditions are expected to exist prior to delivery of equipment at or near the building site in regard to handling and unloading of equipment in the primary or secondary jurisdiction of the local union, the Company shall contact the Local's Business Representative to make appropriate arrangements for the handling and unloading of such equipment. In areas outside the jurisdiction of the local union, the Company shall contact the Regional Director.

(b) The erecting and assembling of all elevator equipment to wit: electric, hydraulic, steam, belt, dumbwaiters, residence elevators, parking garage elevators (such as Bowser, Pigeon Hole, or similar types of elevators), shuttles, compressed air and handpower, automatic people movers, monorails, airport shuttles and like-named devices used in the transportation of people for short distances of travel (less than 5 miles), as well as vertical reciprocating conveyor systems.

(c) It is understood and agreed that the preassembly of all escalators, moving stairways and link belt carriers that may be done in the factory shall include the following:

1. Truss or truss sections with tracks, drive units, machines, handrail drive sheaves, drive chains, skirts on the incline sections but not curved sections, step chains and steps installed and permanently aligned.
2. Balustrade brackets may be shipped attached but not aligned.
3. Setting of all controllers and all wiring and conduit from the controller.

All other work on escalators, moving stairways and link belt carriers shall be performed in the field before or after the truss or truss sections are joined and/or hoisted and placed in permanent position. This includes any and all work not done in the factory. The erecting and assembly of all theater stage and curtain elevator equipment and guides and rigging thereto, organ consoles and orchestra elevators

- (d) All wiring, conduit, and raceways from main line feeder terminals on the controller to other elevator apparatus and operating circuits. Controllers are not to be shipped from the factory with extended wiring attached thereto.
- (e) The erecting of all guide rails.
- (f) The installation of all grating under the control of the Company. The installation of all counterweight screens, overhead work, either wood or iron, and all material used for mounting of elevator apparatus in machine room, overhead or below.
- (g) The drilling of overhead beams for attaching machines, sheaves, kick angles, and all other elevator equipment.
- (h) The setting of all templates.
- (i) All foundations, either of wood or metal, that should take the place of masonry.
- (j) The assembly of all cabs complete.
- (k) The installation of all indicators.
- (l) The erecting of all electrical or mechanical automatic or semi-automatic gates complete.
- (m) The hanging of all automatic or semi-automatic elevator hoistway doors, together with the installation of hangers and tracks.
- (n) The installation of all devices for opening and closing and locking of elevator car and hoistway doors and gates.
- (o) The drilling of doors for mounting of closing devices.
- (p) The drilling of angle supports for mounting of closing devices except one template hole.
- (q) The drilling of sills for sill trips.
- (r) The operating of temporary cars.
- (s) The setting of all elevator pressure open or pit tanks.
- (t) The setting of hydraulic power units (power units include: motor, pump, drive valve system, internal piping, muffler, internal wiring, controller and tank). Where power units arrive in parts, they shall be assembled at the job site. The wiring and piping to and between multiple hydraulic power units shall be performed at the job site.
- (u) All air cushions with the exception of those built of brick or those put together with hot rivets.
- (v) Landing door entrances.

Craft: FENCE ERECTOR (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Fence Erector.....43.98

**ADD ZONE RATE**

In addition to FENCE ERECTOR rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from mid night to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday.

New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Veteran’s Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Erecting or repairing chain link, wooden, tortoise, wire/wire mesh, or temporary fencing;
2. Mixing and pouring concrete around bases of posts and tamping soil into post hole to embed post;
3. Digging post holes with a spade, post hole digger or power-driven auger;
4. Aligning posts through the use of lines or by sighting;
5. Verifying vertical alignment of posts with a plumb bob or spirit level;

Craft: FLAG PERSON (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Flag Person.....40.86

**ADD ZONE RATE**

In addition to FLAG PERSON add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year's Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day

**JOB DESCRIPTION**

**FLAG PERSON**, includes but is not limited to:

1. Directing movement of vehicular traffic through construction projects;
2. Distributing traffic control signs and markers along site in designated pattern;
3. Informing drivers of detour routes through construction sites;

Craft: FLOOR COVERER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                               |       |
|-------------------------------|-------|
| Floor Coverer Journeyman..... | 49.19 |
| Floor Coverer Foreman.....    | 51.46 |

**ADD PREMIUM PAY**

Shift work

1. \$2.00 per hour will be added to the taxable net wage to shift schedule of hours worked between 6:00 p.m. and 6:00 a.m.

One and one half (1 ½) time -shall be calculated using one (1) hour of the taxable net wage and one half (1/2) the base wage, to be paid for all time:

1. For all hours worked over ten (10) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight

Double time -shall be calculated using one (1) hour of the taxable net wage and one (1) of the base wage, to be paid for all time:

1. For any hours worked on Sunday from midnight to midnight
2. For any hours worked on holidays from midnight to midnight

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Independence Day, Labor Day, Admissions Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between Painters and Allied Trades DC 16 and Independent Flooring Contractors of No Nevada

Measuring, cutting, fabricating, fitting, installing to be cemented, tacked or otherwise applied to its base wherever it may be, all materials whether used either as a decorative covering or as an acoustical appliance such as carpets of all types and designs, wall carpets, sheet rubber, sheet vinyl, cork carpet, rubber tile, asphalt tile, tile, cork tile, linoleum tile, mastic in sheets or the tile from vinyl tile, interlocking tile, laminate flooring, engineered wood, hardwood, composition in sheet or tile form and all derivatives of above; the fittings of all devices for the attachment of the above materials and the fitting of all decorative or protective trim to and adjoining the above materials which shall include the drilling and plugging of holes and attaching of strips, slats, nosing, etc. on any base where the above materials are to be installed, or applied, such as drilling, plugging, slating, and slating for installing or fastening of carpet, the installing of all nosing, cap strips, corner beads and edging of any material and the preparatory work of the craft for all of the aforesaid. Also, the cleaning of rugs, carpets, and drapery hanging, make-up and the installation of drapes, the spraying and/or rolling of adhesives as required for double stick installation and carpet tiles.

Craft: GLAZIER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Glazier Journeyman.....24.49

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Installing, setting, cutting, preparing, or removal of glass, or materials used in lieu thereof, including, without limitation, in windows, doorways, showers, bathtubs, skylights and display cases;
2. Installing glass on surfaces, including, without limitation, fronts of buildings, interior walls and ceilings;
3. Installing pre-assembled framework for windows and doors designed to be fitted with glass panels, including stained glass windows by using hand tools;
4. Loading and arranging of glass on trucks at the site of the public work;

Craft: Highway Stripper (Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

|                               |       |
|-------------------------------|-------|
| Highway Stripper.....         | 46.48 |
| Highway Stripper Foreman..... | 46.98 |

**ADD ZONE RATE**

In addition to HIGHWAY STRIPER rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year’s Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:**

Includes but is not limited to:

1. Painting highways, streets and parking surfaces by using manually propelled or mechanically propelled machines, brushes, rollers or spray guns;
2. Installing any device or application of any material used in lieu of paint for traffic direction, including, without limitation, buttons, tapes, plastics, rumble bars and other similar materials;

Craft: Hod Carrier-Brick Mason Tender (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                             |       |
|-----------------------------|-------|
| Brick Mason Journeyman..... | 44.23 |
| Brick Mason Foreman.....    | 44.63 |

**ADD ZONE RATE**

In addition to Hod Carrier Brick Mason Tender rates add the applicable amounts per hour, calculated based on road miles from the Washoe County Courthouse:

|      |                   |        |
|------|-------------------|--------|
| Zone | 75 miles and Over | \$8.13 |
|------|-------------------|--------|

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year's Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between No, NV Masonry Contractors and LIUNA Local 169

Conveying of all materials used by the Brick and Stone Masons from the first point of delivery to the Mechanic whether done manually or by a piece of machinery or equipment devised to replace the wheelbarrow or buggy, including but not limited to the forklift. The handling of Bricks, Blocks, mortar, or any other material to serve the bricklayer in any capacity building and dismantling scaffolds of any kind or type used by Bricklayers for masonry work including but not limited to tower scaffolds, access scaffolds, or other specialty scaffolds, mixing and tempering mortar by hand and/or machine, mixing grout and cleaning up after the bricklayer, the repairing and maintenance of all equipment, either on the job or in the yard.

Craft: Hod Carrier-Plasterer Tender (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                   |       |
|-----------------------------------|-------|
| Plasterer Tender-Journeyman.....  | 44.57 |
| Plasterer Tender- Gun Tender..... | 45.57 |
| Plasterer Tender-Foreman.....     | 45.93 |

**ADD ZONE RATE**

In addition to: HOD CARRIER-PLASTERER TENDER rates add the applicable amounts per hour, calculated based on road miles from So. Virginia St., Reno, Nevada:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 70 miles     | \$0.00 |
| Zone 2 | 70 miles and Over | \$8.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midn ight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year’s Day, Memorial Day, Fourth of July, Labor Day, Veteran’s Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between Plasterers Contractors and LIUNA Local Union 169

Any Employee within the scope of this division tending or serving any other worker performing plasterers work, any plasterer, plasterers, or apprentices in any capacity performing plasterers work including but not limited to, handling and conveying of all materials after delivery used by plasters, including but not limited to, inside finish coat, outside finish coat, brown coat, scratch coat, sprayed or trawled on fireproofing, EIFS systems, and other materials or systems for the same or similar purpose whether done manually or by a piece of machinery or equipment devised to replace the wheelbarrow or buggy, including but not limited to the forklift, tusky hoist, and rigging and signaling for cranes to the point or points of application or installation, making mixing and preparing after delivery all materials used by plasters, whether by hand or machine including but not limited to mixers, pumps for plaster or fire proofing, plaster, finish coats, fireproofing, including Monocoat, Cafco or other materials for the same or similar use, moving any rolling scaffolding, building and handling all necessary trestle, scaffolding and planking of scaffolding for plasterers and lathers, building mortar boxes, mortar boards and stands, and the repairing and maintenance of all equipment either on the job or in the yard, the spreading of all temporary protective drop cloths, building paper or plastic covers and taping of same (in a composite crew with the plasterers when necessary), the cleaning of all floors, and debris, behind the plasterers or any other worker performing plasterers work in connection with the work performed all work necessary for cold weather protection and cure including but not limited to handling installing or tending to blankets, visqueen, and space heaters, and running putty.

Tending to plasterers or any other worker performing plasterers work on EFIS system work shall include all work after the wallboard is installed including but not limited to any preparatory sealing or leveling, placing foam, mesh, and plaster including any rough, finish, and color coats.

For sprayed on fire proofing work only, including Monocoat, Cafco or other materials for the same or similar use an Employer signatory to this Agreement and the Local 169, Laborers Master Agreement may employ Laborers at the Group 1 wage rate to perform overspray protection, the spreading of all temporary protective drop cloths, building paper or plastic covers and taping of same, the cleaning of all floors, and debris, cold weather protection and cure including but not limited to handling installing or tending to blankets, visqueen, and space heaters and moving rolling scaffolding.

Craft: Ironworker (Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

|                                  |       |
|----------------------------------|-------|
| Ironworker-Journeyman.....       | 76.90 |
| Ironworker - Foreman.....        | 80.57 |
| Ironworker -General Foreman..... | 85.93 |

**ADD ZONE RATE** **SEE AMENDMENT 1**

In addition to Iron Worker rates add the applicable amounts per day, calculated based on a road mile from the Reno City Hall.

|        |                    |         |
|--------|--------------------|---------|
| Zone 1 | 60 to 75 miles     | \$25.00 |
| Zone 2 | 75 to 100 miles    | \$50.00 |
| Zone 3 | 100 miles and over | \$60.00 |

**ADD PREMIUM PAY**

One and one half (1X) the regular straight time hourly rate shall be paid:

1. For the first two (2) hours worked in excess of eight (8) on a regular workday Monday-Friday
2. For the first eight (8) hours on Saturday

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over ten (10) hours in one day or shift.
2. For any hours worked on Sunday.
3. For all hours worked over eight (8) on Saturday
4. For all hours worked on Holidays

Shift Pay

1. 2nd shift add 6% of hourly wage
2. 3rd shift add 13% of hourly wage
3. Dedicated shift add 6% of hourly wage

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB CLASSIFICATION:** Excerpt from Agreement between NV AGC and DC of Ironworkers

All work in connection with field fabrication and/or erection or deconstruction of structural, ornamental and reinforcing steel, including but not limited to the fabrication, rigging and signaling, erection and construction of all iron and steel, ornamental lead, bronze, brass, copper and aluminum, plastics and all other substitute materials, including, but not limited to, composites, carbon fiber and fiberglass, all barrier railings, handrail, aluminum, steel, glass and plastic, reinforced concrete structures or parts thereof; bridges, viaducts, inclines, dams, docks, dredges, vessels, locks, gates, guides, aqueducts, reservoirs, spillways, flumes, caissons, cofferdams, subways, tunnels, cableways, tramways, monorails, blast furnaces, stoves, kilns, coolers, crushers, agitators, pulverizers, mixers, concentrators, ovens, cupolas, roof decking such as but not limited to "Cofar", "Trusdeck", Mahon "M"; smoke conveyors, penstocks, flag poles, drums, shafting, shoring, fur and storage rooms, fans and hot rooms, stacks, bunkers, conveyors, dumpers, elevators, vats, tanks, enamel tanks, enamel vats, towers, pans, hoppers, plates, anchors, caps, corbels, lintels, Howe and combination trusses, grillage and foundation work, grating, bucks, partitions, hanging ceilings, hangers, clips, brackets, flooring, floor construction and domes, rolling shutters, curtains, frames; aluminum, rolling fire, won and iron doors, including supports; cast tiling, air ducts, duct and trench frames and plates; wire work, railings, wire cable

including pipe, guards, fencing, grill work, sidewalk and vault lights, skylights, roofs, canopies, light steel framing, marquees, awnings, the erection and installation of playground equipment to include bolting, fastening, welding of swings, slides, jungle gyms, footings and other related equipment elevator and dumb waiter enclosures, elevator cars, tracks, fascias, aprons, operating devices, steel and aluminum sash, hardware and screens, frames, fronts, lockers, racks, book stacks, tables, shelving, metal furniture, seats, chutes, escalators, stairways including pre-engineered stairs, ventilators, boxes, fire escapes, signs, jail and cell work, safes, vaults, vault doors, safe deposit boxes, corrugated sheets when attached to steel frames, including insulation; frames in support of boilers; materials altered in field such as framing, cutting, bending, drilling, burning and welding including by acetylene gas and electric machines; metal forms and false work pertaining to concrete construction; seismic isolation systems and dampening systems including base isolators, sectional water tube and tubular boilers and stokers; traveling sheaves, vertical hydraulic elevators, bulkheads, skip hoists, making and installation of articles made of wire and fibrous rope, rigging in connection with pumps, compressors, forced and induced draft fans, air meters, Bailey meters, agitators, oxygen converters, cinder machines, pelletizing machines, reactor vessels, reactor spheres, completed tanks and assembled sections of completed tanks, scroll cases, refineries, hydroelectric power houses and steam plants, cogeneration plants, vessels and government departments; false work, travelers, scaffolding, pile drivers, sheet piling, derricks and powered derrick swinger including the erection, installation, handling and operating. Cranes erection, installation, handling and operating of same on all forms and types of construction work. The operation of Valla and Spider type battery and/or propane powered portable floor cranes having no operator seat utilized to install ironworker scope of work and the same on all forms and types of construction work. Crane work at the ports, including hammer-head cranes, container cranes and rubber tire cranes. Offloading, relocations, and commissioning of all burning and removal of sea bracing track layout; erection of apex boom extensions, back reach extensions, and rail replacement. Includes all welding, containment and structural modifications of the aforementioned items; railroad bridge work including maintenance thereof; moving, hoisting and lowering of machinery, modules, skid modules and placing of same on foundation, including bridges, cranes, intermittent use forklifts, derricks, buildings, piers and vessels; loading, unloading, necessary maintenance, erection, installation, removal, wrecking and dismantling of all of the above and all reinforcing work and submarine diving in connection with or about same; erection of steel towers, chutes and spouts for concrete where attached to towers and handling and fastening of cables and guys for same; unloading, racking, sorting, cutting, bending, hoisting, placing and tying including the use of any and all mechanical tying devices, burning and welding including stud welding of all iron, steel and metal in reinforced concrete construction including mesh for floor arches and the making of hoops and stirrups, metal forms and metal supports thereof; jacking of slip forms, installation of all wire, cable, parabolic cans, steel and all other materials, including, but not limited to, composites, carbon fiber and fiberglass, used for the purposes of prestressing including grouting of ducts, post stressing concrete girders, beams, columns, etc.; loading, unloading, hoisting, handling, signaling, placing and erection of all prestressed, post stressed, precast materials, G.F.R.C., Dryvit System, including the securing by bolting and/or welding and the installation of steeltex and wire mesh of any type when used for reinforced concrete construction; erection of all curtain wall; glass handrail; stay in place deck; automated and/or mechanical parking structures; offloading, staging, hoisting and setting of modular structures and micro-units; curtain wall systems and associated sealants. Window wall and entrances, panels, insulated and non-insulated, factory and field assembled, porcelain enameled panels, ceramic, laminated spandrelite, louvers and sunscreens; application of thiokol, neoprene and other sealants used to seal materials installed by Iron Workers; installation and handling of phenolic panels, including but not limited to, Trespa products and all similarly related materials and/or systems; installation of metal window stools and sills; installation of aluminum, bronze and steel thresholds; erection and dismantling of all types of cranes and changing of booms; erection of rock, sand and gravel plants, dismantling and loading out conveyors, aggregate plants, batch plants, ableways, refrigeration plants, etc.; erection and dismantling of Monigan walking dragline, launchhammer bucket wheel excavator and other trenching equipment; signaling on highlines, whirley cranes and derricks, buck hoists, man hoists, fork lifts, material towers and scanning antennae;

metal and steel supports of all types; fabrication, assembling and erection of offshore drilling platforms or similar installations; dust collectors, precipitators, multi-plate, specialty welding processes, unloading, loading, hoisting, handling and rigging of all building materials delivered to the job site; hanging ceilings, tees, channels, beams, acoustical elements, sound barriers, computer floors, etc.; installation of stage rigging (including counterweights), curtains, draperies, traverse rods, tracks, cables, window cleaning equipment, powered work platforms, including and loading and unloading, erection installation and removal of powered chassis mounted elevating mast climbing work platforms, rigging in connection with display shows; ski lifts, etc.; wrecking of bridges, viaducts, elevated roads and structural steel and iron in buildings; all steel frames for openings, all porches, verandas, canopies and balconies; all overhead travelers, duo rails, tram rails; erection, setting, repairing of guard or collision rails on bridges and approaches, road ways or any other structures; handling and setting of all types of steel and metal joists, including metal box joists for truss lab and preformed keystone shaped metal joists; erection of steel and metal houses and packaged buildings; all translucent and plastic material on steel frame construction; the erection of solar energy systems, including but not limited to, photo voltaic, heliostat and parabolic systems, energy producing windmill type towers, wind turbine erection to included, but not limited to, prep work, boltup, tensioning or torque of bolts on base and all tower section turbine and blade assemblies; nuclear reactors, electromagnetic shielding plates and atomic vessels including all component parts; the plumbing, aligning and leveling of all materials and equipment through the use of optical instruments, LASER beams, etc., and the use of instruments to establish layout, installation and disposition of ironworker installed scope of work; the unloading, distributing, stockpiling and handling of all materials coming under the jurisdictional claims of the UNION such as to rail heads, storage yards, loading and unloading, hoisting, handling, signaling of all fabricated material and equipment at the jobsite (except FOB deliveries) related to the Iron Workers jurisdiction that is within the individual employers' contractual scope of work including from and to barge and ships to a lay down yard or construction project, etc., shall be done by the Iron Workers.

All reinforcing work in connection with field fabrication, including but not limited to the pre-assembly of reinforcing cages, loading and unloading, handling, racking, sorting, cutting, bending, hoisting, intermittent use of forklifts, placing, burning, welding and tying of all material including the use of any and all mechanical tying devices, or substitute materials, including but not limited to, composites, carbon fiber and fiberglass, stainless steel, used to reinforce concrete construction shall be done by Iron Workers within the individual employers' scope of work at the jobsite, excluding FOB deliveries. A working Iron Worker shall be employed for maintenance on jobs of substantial size while concrete is being poured on reinforcing steel, wire mesh and paper back steeltex but will not be required as a stand-by man. All work in connection with the installation, alignment, repair & modification of panelized roofing systems, pre-engineered fabric structures, aluminum clarifier coverings, carports, ministorages, and dock planks. All work in connection with the installation, alignment, repair and modification of bleachers, planking and stadium seating. All work in connection of installation of amusement rides including, but not limited to, the erection and alignment of all track, machinery and related components.

Craft: Laborer (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                          |       |
|--------------------------|-------|
| Landscaper .....         | 38.57 |
| Furniture Mover .....    | 40.07 |
| Group 1.....             | 43.73 |
| Group 1A.....            | 40.86 |
| Group 2.....             | 43.83 |
| Group 3.....             | 43.98 |
| Group 3A.....            | 47.41 |
| Group 4.....             | 44.23 |
| Group 4A.....            | 46.73 |
| Group 5.....             | 44.53 |
| Group 6                  |       |
| Nozzlemen, Rodmen.....   | 43.53 |
| Gunmen, Materialmen..... | 44.23 |
| Reboundmen.....          | 43.88 |
| Gunite Foreman.....      | 44.93 |

**ADD ZONE RATE**

In addition to LABORER rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 75 miles     | \$0.00 |
| Zone 2 | 75 to 150 miles   | \$4.00 |
| Zone 3 | 150 to 300 miles  | \$5.00 |
| Zone 4 | 300 miles or over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between AGC and LIUNA Local 169

The construction, erection, alteration, repair, modification, demolition, addition, improvement of all building, heavy and highway, utility, industrial and all other type(s) of construction.

**SEE GROUP CLASSIFICATIONS**

Craft: LUBRICATION AND SERVICE ENGINEER (MOBILE AND GREASE RACK) (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Lubrication and Service Engineer (mobile and grease rack).....65.08

**ADD ZONE RATE**

In addition to: **LUBRICATION AND SERVICE ENGINEER (MOBILE AND GREASE RACK)** rates add the applicable amounts per hour calculated based on a road miles from the Carson City Courthouse or Washoe County Courthouse.

|        |                    |        |
|--------|--------------------|--------|
| Zone 1 | 0 to 75 miles      | \$0.00 |
| Zone 2 | 75 to 150 miles    | \$4.00 |
| Zone 3 | 150 to 300 miles   | \$5.00 |
| Zone 4 | 300 miles and over | \$6.00 |

**ADD PREMIUM PAY**

1. One and one-half (1-1/2) times the applicable straight-time rate for the day, shift, work, equipment and classification shall be paid for all work (including repair work and field survey work) performed on Saturday and before a shift begins and after it ends, except when operating equipment servicing a craft that is receiving double time on commercial building construction, in which case double time shall be paid.

2. Overtime. The following rates shall apply on Sundays and holidays and all work before a shift begins and after it ends:

**RECOGNIZED HOLIDAYS**

Holidays. Double the applicable straight-time rate shall be paid for all work (including repair, maintenance and field survey work) performed on Sundays and the following holidays: New Year's Day (January 1); Memorial Day (last Monday in May); Independence Day (July 4); Labor Day (1st Monday in September); Nevada Admission Day (last Friday in October); Thanksgiving Day (4th Thursday in November); the day after Thanksgiving Day; and Christmas Day (December 25). Holidays falling on Sunday shall be observed on the following Monday. Holiday hours shall be reckoned on the same basis as Sunday hours.

Saturday Shift Period. On any shift, Saturday shall be the twenty-four-hour period commencing at 12:00 midnight Friday.

Sunday Shift Period. On any shift, Sunday shall be the twenty-four-hour period commencing at 12:00 midnight Saturday.

3. For hours worked in excess of 12) on any such workday, an Employee shall be paid two (2) times the regular straight-time rate of pay for each hour so worked.

Craft: Mechanical Insulator (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |       |
|--|-------|
| Mechanical Insulator-Mechanic.....         | 69.11 |
| Mechanical Insulator-Foreman.....          | 73.11 |
| Mechanical Insulator-General Foreman ..... | 75.11 |

**ADD ZONE RATE**

In addition to MECHANICAL INSULATOR rates add the applicable amounts per hour, calculated based on a radius figured from Reno City Hall:

|        |                |         |
|--------|----------------|---------|
| Zone 1 | 0 to 20 miles  | \$11.00 |
| Zone 2 | 21 to 40 miles | \$21.00 |
| Zone 3 | 41 to 60 miles | \$31.00 |
| Zone 4 | Over 60 miles  | \$85.00 |

**ADD PREMIUM PAY**

One and one half times the minimum hourly wage rate shall be paid for the first two (2) hours of overtime work, directly following eight (8) hours Monday through Friday, and for the first ten (10) hours worked on Saturdays. Double the minimum hourly wage rate shall be paid for all other overtime worked Monday through Friday and in excess of ten (10) hours on Saturdays.

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from the Int'l Assoc. of Heat and Frost Insulators and Allied Workers Local 16 and the No. CA Chapter. Western Insulation Contractors Assoc.

- 65. Lining of all mechanical room surfaces and air handling shafts.
- 66. The filling and damming of fire stops and penetrations including, but not limited to, electrical and mechanical systems.
- 67. All foam applications for the purpose of thermal, acoustical, or fire protective purposes, including RTV foams or equivalents, applied to mechanical or electrical systems.
- 68. All duct lining, and duct wrapping, done on the job site, direct application and installation of fire protection of grease ducts, exhaust systems, or any other ductwork for acoustical or thermal purposes.
- 69. The insulation of all field joints on pre-insulated underground piping, and the pouring of Gilsilite or its equivalent.
- 70. Any finish material which is contiguous to the thermal or acoustical application.
- 71. The preparation, distribution of materials on job sites, assembling, molding, spraying, pouring, mixing, hanging, adjusting, repairing, dismantling, reconditioning, maintaining, finishing, and weather proofing of hot or cold thermal or acoustical insulation with such materials as may be specified.
- 72. The application of any material, including metal and PVC jacketing, Alumaguard or equivalent, on piping, fittings, valves, flanges, boilers, ducts, plenums, flues, tanks, vats, equipment and any other hot or cold surface for the purpose of thermal control.
- 73. The Agreement shall cover all other work of a specialty nature.

Craft: Millwright (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                 |       |
|---------------------------------|-------|
| Millwright Journeyman.....      | 68.61 |
| Millwright Welder.....          | 69.61 |
| Millwright Foreman.....         | 72.67 |
| Millwright General Foreman..... | 77.14 |

**ADD ZONE RATE**

In addition to MILLWRIGHT rates, add the applicable amounts per hour, calculated on road miles from the Washoe County Courthouse:

|        |                |        |
|--------|----------------|--------|
| Zone 1 | 0 to 15 Miles  | \$0.00 |
| Zone 2 | 15 to 35 Miles | \$2.50 |
| Zone 3 | Over 35 Miles  | \$4.25 |

**ADD PREMIUM PAY**

First two (2) hours outside the regular constituted shift shall be at the rate of time and one-half (1½X).

Saturdays up to the first ten (10) hours shall be at the rate of time and one-half (1½X). All additional hours and Sundays and holidays shall be the rate of double time (2X). When working on Sundays and holidays, there will be one dollar and fifty cents (\$1.50) per hour additional paid to Pension Annuity. Admission Day is a recognized holiday in lieu of Veterans' Day.

**RECOGNIZED HOLIDAYS**

New Year's Day, Washington's Birthday (President's Day), Memorial Day, 4th of July, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION** Excerpt from Southwest Regional Council of Carpenters and Affiliated Local Unions Master Labor Agreement

5006.18

The work of the millwrights, as spelled out in the Jurisdictional Claims Handbook referenced in Paragraph 5006.17 above, is as follows: The term "MILLWRIGHTS AND MACHINE ERECTORS" shall mean the, unloading, hoisting, rigging, skidding, moving, dismantling, aligning, erecting, assembling, repairing, maintaining and adjusting of all machinery and equipment installed either in buildings, factories, structures, or processing areas, either undercover, underground or elsewhere required to process material, handle, manufacture or service, be it powered or receiving power manually, by steam, gas, electric, gasoline, diesel, nuclear, solar, water, air or chemically; and in industries such as and including but not limited to the following (which are identified for the purpose of description: woodworking plants, canning industries, steel, coffee roasting plants, paper and pulp, cellophane, stone crushing, gravel and sand washing and handling, refineries, grain storage and handling, asphalt plants, sewage disposal and water plants, laundry, bakery, mixing plants, can, bottle and bag packing plants, textile mills, paint mills, breweries and milk processing plants, power plants, aluminum processing or manufacturing plants, and the amusement or entertainment field.

5006.19

Also included are installation of mechanical equipment in atomic energy plants, installation of reactors in power plants, installation of control rods and equipment in reactors, installation of mechanical

equipment in rocket missile bases, launchers, launching gantry, floating bases, hydraulic escape doors and any and all component parts thereto either assembled, semi-assembled or disassembled.

#### 5006.20

Further included is the installation of, but not limited to the following: setting of all engines, motors, generators, air compressors and fans, pumps, scales, hoppers, conveyors of all types and sizes and their supports, escalators, man lifts, moving machinery, mechanical operator and/or automatic doors, roll-up doors, mechanical stage equipment, amusement devices, mechanical pin setters and spotters in bowling alleys, refrigeration equipment and installation of all types of equipment necessary and required to process material either in manufacturing or servicing, the handling and installation of pulleys, gears, sheaves, fly wheels, air and vacuum drives, worm drives and gear drives directly or indirectly coupled to motors, belts, chains, screws, legs, boots, guards, boot tanks, all bin valves, turn heads and indicators, shafting, bearing, cable sprockets, cutting all key seats in new and old work, troughs, chippers, filters, calendars, rolls, winders, reminders, slitters, cutters and wrapping machines; blowers, forging machines, rams, hydraulic or otherwise, planing, extruder, ball, dust collectors, equipment in meat packing plants and splicing of ropes and cables.

#### 5006.21

Additionally included are the laying out, fabrication and installation of protection equipment, including machinery guards, the making and setting of templates for machinery, fabrication of bolts, nuts, pins and drilling of holes for any equipment which the millwrights install regardless of materials; all welding and burning regardless of type; fabrication of all lines, hose or tubing used in lubricating machinery installed by millwrights; grinding, cleaning, servicing and machine work necessary for any part of any equipment installed by the millwrights; and the breaking in and trial run, of any equipment or machinery installed by the millwrights

#### 5006.22

When requested in writing by the Millwright Union, individual Employers who are parties to this Agreement shall furnish signed letters promptly on a date mutually agreed upon by both parties, but in no case more than thirty (30) days, on the letterhead of the individual Employer stating he is employing or had employed millwrights on a specific type of work and a specific job and paid the negotiated scale of wages and fringe benefits for such work.

#### 5006.23

The individual Employer and the Local Union will cooperate promptly in attempting to resolve jurisdictional disputes that may arise on any job or project.

Craft: OPERATING ENGINEER (Union Rate)  
**Prevailing wage rates include the base rate as well as all applicable fringes**

| Operating Engineers                          | (SEE GROUP CLASSIFICATIONS) |
|--|-----------------------------|
| Group 1.....                                 | 60.16                       |
| Group 1A.....                                | 62.82                       |
| Group 2.....                                 | 63.36                       |
| Group 3.....                                 | 63.62                       |
| Group 4.....                                 | 64.36                       |
| Group 5.....                                 | 64.66                       |
| Group 6.....                                 | 64.86                       |
| Group 7.....                                 | 65.08                       |
| Group 8.....                                 | 65.67                       |
| Group 9.....                                 | 65.99                       |
| Group 10.....                                | 66.34                       |
| Group 10A.....                               | 66.53                       |
| Group 11.....                                | 66.77                       |
| Group 11A.....                               | 68.41                       |
| Group 11B.....                               | 69.22                       |
| Foreman.....                                 | 68.41                       |
| Add \$12.5% to base rate for "Special" Shift |                             |

**Add Operating Engineers Zone Pay**  
**Add Premium Pay**

Craft: OPERATING ENGINEER (Union Rate)  
**STEEL FABRICATOR & ERECTOR**

**Prevailing wage rates include the base rate as well as all applicable fringes**

| Operating Engineers                               | (SEE GROUP CLASSIFICATIONS) |
|---|-----------------------------|
| Group 1.....                                      | 75.36                       |
| Group 1 Truck Crane Oiler.....                    | 69.19                       |
| Group 1 Oiler.....                                | 67.23                       |
| Group 2.....                                      | 73.85                       |
| Group 2 Truck Crane Oiler.....                    | 68.94                       |
| Group 2 Oiler.....                                | 67.02                       |
| Group 3.....                                      | 72.61                       |
| Group 3 Truck Crane Oiler.....                    | 68.72                       |
| Group 3 Oiler.....                                | 66.80                       |
| Group 3 Hydraulic.....                            | 68.39                       |
| Group 4.....                                      | 70.88                       |
| Group 5.....                                      | 69.78                       |
| Add \$12.5% to base rate for "Special" Shift..... |                             |

**Add Operating Engineers Zone Pay**  
**Add Premium Pay**

Craft: OPERATING ENGINEER (Union Rate)  
PILEDRIVER

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |                             |
|---|-----------------------------|
| Operating Engineers                               | (SEE GROUP CLASSIFICATIONS) |
| Group 1.....                                      | 74.73                       |
| Group 1 Truck Crane Oiler.....                    | 69.17                       |
| Group 1 Oiler.....                                | 67.25                       |
| Group 2.....                                      | 73.09                       |
| Group 2 Truck Crane Oiler.....                    | 68.96                       |
| Group 2 Oiler.....                                | 67.05                       |
| Group 3.....                                      | 71.64                       |
| Group 3 Truck Crane Oiler.....                    | 68.74                       |
| Group 3 Oiler.....                                | 66.82                       |
| Group 4.....                                      | 70.13                       |
| Group 5.....                                      | 69.02                       |
| Group 6.....                                      | 65.74                       |
| Group 7.....                                      | 66.95                       |
| Group 8.....                                      | 65.99                       |
| Add \$12.5% to base rate for "Special" Shift..... |                             |

**ADD ZONE RATE**

In addition to: **OPERATING ENGINEER, STEEL FABRICATOR & ERECTOR, and OPERATING ENGINEER PILEDRIIVER**, rates add the applicable amounts per hour calculated based on a road miles from the Carson City Courthouse or Washoe County Courthouse

|        |                  |        |
|--------|------------------|--------|
| Zone 1 | 0 to 75 miles    | \$0.00 |
| Zone 2 | 75 to 150 miles  | \$4.00 |
| Zone 3 | 150 to 300 miles | \$5.00 |
| Zone 4 | 300 miles over   | \$6.00 |

**ADD PREMIUM PAY**

1. One and one-half (1-1/2) times the applicable straight-time rate for the day, shift, work, equipment and classification shall be paid for all work (including repair work and field survey work) performed on Saturday and before a shift begins and after it ends, except when operating equipment servicing a craft that is receiving double time on commercial building construction, in which case double time shall be paid.

2. Overtime. The following rates shall apply on Sundays and holidays and all work before a shift begins and after it ends:

**RECOGNIZED HOLIDAYS**

Holidays. Double the applicable straight-time rate shall be paid for all work (including repair, maintenance and field survey work) performed on Sundays and the following holidays: New Year's Day (January 1); Memorial Day (last Monday in May); Independence Day (July 4); Labor Day (1st Monday in September); Nevada Admission Day (last Friday in October); Thanksgiving Day (4th Thursday in November); the day after Thanksgiving Day; and Christmas Day (December 25). Holidays falling on Sunday shall be observed on the following Monday. Holiday hours shall be reckoned on the same basis as Sunday hours.

Saturday Shift Period. On any shift, Saturday shall be the twenty-four-hour period commencing at 12:00 midnight Friday.

Sunday Shift Period. On any shift, Sunday shall be the twenty-four-hour period commencing at 12:00 midnight Saturday.

3. For hours worked in excess of 12) on any such workday, an Employee shall be paid two (2) times the regular straight-time rate of pay for each hour so worked.

**JOB DESCRIPTION**, includes but is not limited to:

Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement.

Craft: PAINTER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |                                 |
|--|---------------------------------|
| Brush/Roller Painter.....                    | 45.50                           |
| Spray Painter/Paperhanger.....               | 46.83                           |
| Sandblaster.....                             | 46.88                           |
| Structural Steel & Steeplejack.....          | 46.88                           |
| Swing Stage.....                             | 47.24                           |
| Special Coating Application-Brush.....       | 47.29                           |
| Special Coating Application-Spray.....       | 47.29                           |
| Special Coating Application-Spray Steel..... | 47.29                           |
| Foreman.....                                 | \$1.00 above highest Journeyman |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift unless the Union is notified when four (4) tens (10's) are instituted.
2. For any hours worked on Saturday from midnight to midnight
3. For any work performed in excess of the regular work week of forty (40) hours.

Double the regular straight time hourly rate shall be paid for all time:

1. For any hours worked on Sunday from midnight to midnight
2. For any hours worked on holidays from midnight to midnight

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between Painters and Allied Trades DC 16 and Independent Flooring Contractors of No Nevada

a. All painting of residences, buildings, structures, industrial plants, tanks, vats, pipes, vessels, bridges, light poles, high tension poles, traffic and parking lines on highways, parking lots, playgrounds, factories, and air line strips; all sign, pictorial, coach, car automobile, carriage, aircraft machinery, ship and railroad equipment, mural and scenic painting; spackling of all surfaces where adhesive materials are used; and all drywall pointing, taping and finishing.

b. All decorators, paperhangers, hard wood finishers, grainers, glaziers, varnishers, enamellers

1. Paperhangers work shall be all material of whatever kind or quality applied to walls or ceilings with paste or adhesive; all tacking on the muslin or other materials which is used as wall or ceiling coverings or covered with material pasted on.
2. The scraping off of old paper, preparing of walls, etc., for paper hangers work.
3. The application of relief, stucco, plaster or decorative work shall not be considered paperhanger's work exclusively.

(c) All men engaged in applying or removing paints, pigments, extenders, metal primers and metal pigments, clear pigments, binders, thinners and dryers, primers and sealers, oil paints and enamels,

water colors and emulsions, clear coatings, waxes, stains, mastics, cement enamels and other special coatings, plastics, adhesives, coatings and sheet rubber and other linings, oils, varnishes, water colors, wall paper, wall coverings or other materials used in the various branches of the trade, and the cleaning and bleaching of all interior and exterior walls and surfaces with liquid, steam, sandblast or any other process and all work incidental thereto.

Craft: PILEDRIIVER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                 |       |
|---------------------------------|-------|
| Piledriver-Journeyman.....      | 53.66 |
| Piledriver-Welder.....          | 54.66 |
| Piledriver-Foreman.....         | 57.07 |
| Piledriver-General Foreman..... | 60.82 |
| Tender.....                     | 57.07 |
| Stand-By Diver.....             | 58.07 |
| Diver-Diving (Wet Pay).....     | 96.61 |

**ADD ZONE RATE**

In addition to PILEDRIIVER rates add the applicable amounts per hour, calculated from the Washoe County Courthouse:

|        |                  |        |
|--------|------------------|--------|
| Zone 1 | 0 to 75 miles    | \$0.00 |
| Zone 2 | 75 to 150 miles  | \$4.00 |
| Zone 3 | 150 to 300 miles | \$5.00 |
| Zone 4 | Over 300 miles   | \$6.00 |

**ADD PREMIUM PAY**

First two (2) hours outside the regular constituted shift shall be at the rate of time and one-half (1½X).

Saturdays up to the first ten (10) hours shall be at the rate of time and one-half (1½X). All additional hours and Sundays and holidays shall be the rate of double time (2X). When working on Sundays and holidays, there will be one dollar and fifty cents (\$1.50) per hour additional paid to Pension Annuity.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4th of July, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION**

In addition, the operation of the power pack and vibratory hammer controls when driving or pulling, sheet pile, pile, soldier beams, cassinis or casing.

(1) In the construction of waterfront and marine facilities, such as docks, piers, wharves, bulkheads, jetties, and similar structures, the pile driver classification should continue to apply, up to and including the decking thereof.

(2) On all pile driving and caisson work on both land and water, the Pile Driver classification should apply.

(3) In the construction of wooden bridges whether over land or over water, when composed of heavy timber, the Pile Driver classification should apply.

(4) In the construction of concrete or steel bridges over land, the Pile Driver classification shall apply to the driving of piles and/or caisson work including the forms required for the capping of the piles or caissons immediately top of the piles or caissons. The capping of the piles is herein interpreted as being that concrete, wood, or other material resting on the top of the piles where driven or placed and does not include any further form work above the capping. In many instances it has been found that the capping is called the girder. The above shall apply on such concrete or steel bridges constructed over land, highways, railroads, overpasses and include cloverleaves, interchanges, etc.

(5) In the construction of concrete or steel bridges over water, the Pile Driver classification shall apply up to and including all of the form work to the top of the column, piers, or abutments supporting the steel and/or any other superstructures.

(6) In the erection of false work, when necessary for the support of work under the Pile Driver classification, then such false work shall fall within their classification. False work necessary for the support of work under the Carpenter classification shall be done within such Carpenter classification, with the exception that where pile driving or power equipment is used for heavy timber false work, then such work shall come under the Pile Driver classification. This would include all rigging, signaling and tagging incidental to the placing of the heavy timber.

(7) In the construction of open-cut sewers, the Pile Driver classification shall apply on all piling including wood, steel or concrete sheet piling, all bracing timber and form work incidental to the construction thereof.

Craft: PLASTERER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                           |       |
|---------------------------|-------|
| Plasterer-Journeyman..... | 48.82 |
| Plasterer-Foreman.....    | 52.13 |

**ADD ZONE RATE**

In addition to PLASTERER rates add the applicable amounts per hour, calculated from the South Virginia and Mill Street, Reno, Nevada:

|        |                   |        |
|--------|-------------------|--------|
| Zone 1 | 0 to 70 miles     | \$0.00 |
| Zone 2 | 70 miles and over | \$8.00 |

**ADD PREMIUM PAY**

OVERTIME Eight (8) consecutive hours (exclusive of a meal period) shall constitute a day's work at straight time. Five (5) consecutive days of eight (8) consecutive hours (exclusive of a meal period), Monday through Friday, shall constitute a week's work. One and one half (1 ½) the regular straight time hourly rate shall be paid for all work over eight (8) hours. Sunday will be paid at double the regular straight time rate.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, 4th of July, Labor Day, Admissions Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement No NV. Plasterers Master Labor Agreement

This includes but is not limited to:

1. All building construction, including but not limited to the construction, erection, alteration, repair, modification, demolition, addition, or improvement in whole or in part of any building structures,
2. All interior or exterior plastering construction, restoration, repair and inspection of cement, stucco, stone imitation or any patent material when ornamental molded plaster, and the setting of same. All specialty finishes such as veneer, venetian, marmoreno and grasello. All custom and specialty finishes, including but not limited to custom rock, carved plaster, brick and block veneer, stone and wood. Smooth and finish surfaces of full system E.I.F.S. including sticking and shaping of foam pieces or surfaces by adhesive or mechanical installation. All spray or towed on fireproofing, including cementitious and intumescent products. All plaster acoustical finish systems including, but not limited to, BASWA Phon and Fellert.
3. All work processes which represent technological change, replacement, modification or substitution for the work described above. In addition, all work and use of new materials or *2020-2024 Reno Plasterers Master Labor Agreement* 4 techniques involved in plaster construction including but not limited to what is known as green or sustainable construction technology.

Craft: PLUMBER/PIPEFITTER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |       |
|---|-------|
| Plumber/Pipefitter-Journeyman.....      | 63.95 |
| Plumber/Pipefitter-Foreman.....         | 68.18 |
| Plumber/Pipefitter-General Foreman..... | 72.41 |

**ADD ZONE RATE**

In addition to PLUMBER/PIPEFITTER rates add the applicable amounts per statute air mile radius from the Nevada freeway interchange of Interstate 80 and 580.

|        |               |        |
|--------|---------------|--------|
| Zone 1 | 0 to 75       | \$0.00 |
| Zone 2 | Over 75 miles | \$8.00 |

A separate free zone will be established for employees permanently residing and working within a seventy-five (75) statute air mile radius of the Elko, Nevada Post Office.

|        |               |        |
|--------|---------------|--------|
| Zone 1 | 0 to 75       | \$0.00 |
| Zone 2 | Over 75 miles | \$8.00 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Fourth of July, Labor Day, Nevada Admission Day, Thanksgiving Day, the Friday after Thanksgiving Day, Day Before Christmas and Christmas Day and any Friday preceding a Holiday falling on a Saturday, if worked, holidays shall be compensated at the double time rate.

**JOB DESCRIPTION** Excerpt from Agreement between LU 350 of United Assoc. of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of United States and Canada

Installation of all heating and refrigeration systems and competent parts thereof, including fabrication, assembling, erection installation, dismantling, repairing, reconditioning, adjusting, altering servicing, handling, distributing, and tying on all piping materials appurtenances and equipment by method, including all hangars and supports of every description, all other work including the the trade relevant to oil burner and all other types of heating and refrigeration equipment including low voltage controls.

Craft: REFRIGERATION MECHANIC (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                      |       |
|--------------------------------------|-------|
| Refrigeration-Journeyman.....        | 59.34 |
| Refrigeration -Foreman.....          | 62.81 |
| Refrigeration -General Foreman ..... | 66.27 |

**ADD PREMIUM PAY**

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

**RECOGNIZED HOLIDAYS**

New Year's Day, Memorial Day, Fourth of July, Labor Day, Nevada Admission Day, Thanksgiving Day, the Friday after Thanksgiving Day, Day Before Christmas and Christmas Day and any Friday preceding a Holiday falling on a Saturday, if worked, holidays shall be compensated at the double time rate.

**JOB DESCRIPTION** Excerpt from Agreement between LU 350 of United Assoc. of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of United States and Canada

Installation of all heating and refrigeration systems and competent parts thereof, including fabrication, assembling, erection installation, dismantling, repairing, reconditioning, adjusting, altering servicing, handling, distributing, and tying on all piping materials appurtenances and equipment by method, including all hangars and supports of every description, all other work including the trade relevant to oil burner and all other types of heating and refrigeration equipment including low voltage controls.

Craft: ROOFER (Non-Union Rate)  
(Does not include sheet metal roofs)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Rofer-Journeyman.....32.63

**ROOFER**

Includes but is not limited to:

1. Installing and covering roofs and structures with slate, asphalt, wood and other related materials, other than sheet metal, by using brushes, knives, punches, hammers and other tools;
2. Spraying roofs, sidings and walls with material to bind, seal, insulate or soundproof sections of a structure;
3. Installation of all plastic, slate, slag, gravel, asphalt and composition roofing, and rock asphalt mastic when used for damp and waterproofing;
4. Installation of all damp resisting preparations when applied on roofs with mop, three-knot brush, roller, swab or spray system;
5. All types of preformed panels used in waterproofing;
6. Handling, hoisting and storing of all roofing, damp and waterproofing materials;
7. The tear-off and/or removal of roofing and roofing materials;

Craft: SHEET METAL WORKERS (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |       |
|--|-------|
| Sheet Metal Worker Journeyman.....       | 68.43 |
| Sheet Metal Worker -Foreman.....         | 72.45 |
| Sheet Metal Worker -General Foreman..... | 76.47 |

**ADD ZONE RATE**

In addition to SHEET METAL rates add the applicable amounts per hour, calculated based on a road from the courthouse in Reno, Nevada:

|        |                 |  |
|--------|-----------------|--|
| Zone 1 | 0 to 75 miles   | \$0.00   |
| Zone 2 | 75 to 100 miles | \$5.00   |
| Zone 3 | Over 100 miles  | \$10.00 the employee shall be provided reasonable lodging and meal expenses. |

**ADD PREMIUM PAY**

All hourly rates are subject to Over Time (One and one half 1 ½) of the Regular rate:

1. For all hours worked over Eight (8) Hours in one day or shift.
2. For the first Eight (8) Hours work on Saturday.

All hourly rates are subject to Double Time of the Regular Rate:

1. For all hours worked over Ten (10) Hours in one day or shift.
2. For all hours worked over Eight (8) Hours on Saturday.
3. For all hours worked on Sunday, New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day.

**RECOGNIZED HOLIDAYS**

New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day

**JOB DESCRIPTION:** Excerpt from Sheet Metal Local 26 Collective Bargaining Agreement

(a) manufacture, fabrication, assembling, handling, erection, installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or nonferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air veyor systems, exhaust systems, and air-handling systems regardless of material used including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct lining; (c) testing and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches whether manually drawn or computer assisted used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches; (e) metal roofing; and (f) all other work included in the jurisdictional claims of International Association of Sheet Metal, Air, Rail and Transportation Workers.

Craft: SPRINKLER FITTER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Sprinkler Fitter-Journeyman.....26.27

**JOB DESCRIPTION**

Installing, dismantling, maintenance, repairs, adjustments and corrections of all fire protection and fire control systems Including the unloading, handling by hand, power equipment and installation of all piping or tubing, appurtenances and equipment pertaining thereto, including both overhead and underground water mains, fire hydrants and hydrant mains, standpipes, and hose connections to sprinkler systems, sprinkler tank heaters, air lines and thermal systems used in connection with sprinkler and alarms systems, also all tanks and pumps connected thereto. Also including shall be CO2 and Cardox Systems, Dry Chemical Systems, Foam Systems and all other fire protection systems, but excluding steam fire protection systems.

Craft: SOILS and MATERIAL TESTER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Soil Tester (Certified).....42.84  
Soils and Materials Tester.....42.84

Craft: SURVEYOR (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Surveyor.....37.64

**SURVEYOR**, includes but is not limited to:

1. Planning ground surveys designed to establish base lines, elevation and other geodetic measurements;
2. Compiling data relevant to the shape, contour, gravitation, location, elevation and dimension of land and land features on or near the surface of the Earth for engineering, map making, mining, land evaluation, construction and other purposes;
3. Surveying bodies of water to determine navigable channels and to secure data for construction of breakwaters, piers and other marine structures;
4. Computing data necessary for driving and connecting underground passages, underground storage and volume of underground deposits.

Craft: TAPER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                            |       |
|----------------------------|-------|
| Taper-Journeyman.....      | 51.36 |
| Taper-Foreman.....         | 52.86 |
| Taper-General Foreman..... | 53.86 |

**ADD ZONE RATE**

In addition to: TAPER rates add the applicable amounts per hour Zone Pay shall commence from Maryland Parkway and Charleston Boulevard and shall be paid as follows:

|        |                |        |
|--------|----------------|--------|
| Zone 1 | 0 to 40 miles  | \$0.00 |
| Zone 2 | 40 to 60 miles | \$2.50 |
| Zone 3 | over 60 miles  | \$4.25 |

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**ADD PREMIUM PAY**

All overtime, except Sundays and holidays, will be time and one-half (1 1/2). Sundays and holidays will be paid double time (2X). Any and all work performed in excess of the regular workday of eight (8) hours, or ten (10) hours if mutually agreed to, and the regular workweek of forty (40) hours shall be considered overtime and shall be paid for at one and one-half (1 1/2) times the regular hourly rate.

**JOB DESCRIPTION:** Excerpt from Agreement between DC 16 and the independent Drywall Contractors of Northern Nevada

SECTION 1 -- The scope of work covered by this Agreement shall include (but not be limited to) all work operations, including distribution to the point of application, as follows:

(a) Work or services pertaining to the preparation, spotting, pointing, detailing, flushing, sanding and finishing of interior and/or exterior gypsum, drywall, thin wall, concrete, steel, wood and plaster surfaces, spackling of all surfaces where adhesive materials are used; and all drywall pointing, taping and finishing.

(b) Work or services pertaining to the application of all finish or flushing materials regardless of method of application or type of surface on which materials are applied, including but not limited to texture and simulated acoustic materials of all types and the application of radiant heat fill and steel fireproofing materials.

(c) Work or services pertaining to the installation of protective coverings and masking prior to the application of finish materials.

(d) The operation and care of all taping tools and texturing equipment used in the finishing and texturing of drywall and other surfaces including brushes, rollers, spray texturing equipment, miscellaneous hand, mechanical, and power tools, and the operation and maintenance of compressors required in the finishing and texturing of such surfaces.

(e) No limitation shall be placed on the work covered by this Agreement by reason of the surface, type of material or purpose for which the materials used are designed or intended.

(f) The cleanup of all materials and debris occasioned by any job operation at the site of construction, alteration, or repair undertaken whether such operation occurs on the interior or exterior of a building structure.

Craft: TILE SETTER/TERRAZZO WORKER/MARBLE MASON FINISHER (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|   |       |
|---|-------|
| Tile Setter/Terrazzo Worker/Marble Mason- Finisher.....                 | 36.32 |
| Tile Setter/Terrazzo Worker/Marble Mason- Finisher Foreman.....         | 37.57 |
| Tile Setter/Terrazzo Worker/Marble Mason Finisher- General Foremen..... | 39.32 |

**ADD PREMIUM PAY**

All work in excess of forty (40) hours during the established work week shall be paid at the rate of one and one-half (1-1/2) times the hourly base wage rate in effect.

Employees shall be paid one and one-half (1-1/2) times the hourly wage rate for al hours worked over eight (8) in a single day and double time after ten (10) hours in a single day, Monday through Friday, except recognized holidays.

Daily Overtime Saturdays the first ten (10) hours performed on Saturday shall be paid at one and one-half (1-1/2) times the straight time wage rate.

Daily Overtime Sunday- Employees shall be paid double time on Sundays if forty (40) straight time hours have been worked during the proceeding work week.

Holidays shall be paid double time for hours owed on recognized holidays.

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day. Any holiday falling on a Sunday will be observed on Monday.

**JOB DESCRIPTION:** Excerpt from Agreement between BAC 13 Nevada of the Mountain West Administrative District Council Master Labor Agreement

*FINISHER'S WORK:*

Finisher's work shall consist of assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments. required to complete the proper installation of the work covered by Sections 5, 7 and 8 of this Code.

Craft: TILE SETTER/TERRAZZO WORKER/MARBLE MASON (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|  |       |
|--|-------|
| Tile Setter Journeyman.....                | 46.12 |
| Tile Setter Foreman.....                   | 47.37 |
| Tile Setter General Foreman.....           | 49.12 |
| Terrazzo/Marble Mason-Journeyman .....     | 47.12 |
| Terrazzo/Marble Mason-Foreman .....        | 48.32 |
| Terrazzo/Marble Mason-General Foreman..... | 50.12 |

**ADD ZONE RATE**

In addition to TILE SETTER/TERRAZZO WORKER/MARBLE MASON rates add the applicable amounts per hour, calculated based on a road miles of over fifty (50) miles from the Washoe County Courthouse in Reno, Nevada:

|        |                |        |
|--------|----------------|--------|
| Zone 1 | 0 to 50 miles  | \$0.00 |
| Zone 2 | 50 to 75 miles | \$3.75 |
| Zone 3 | Over 70 miles  | \$8.13 |

**ADD PREMIUM PAY**

All work in excess of forty (40) hours during the established work week shall be paid at the rate of one and one-half (1-1/2) times the hourly base wage rate in effect.

Employees shall be paid one and one-half (1-1/2) times the hourly wage rate for all hours worked over eight (8) in a single day and double time after ten (10) hours in a single day, Monday through Friday, except recognized holidays.

Daily Overtime Saturdays the first ten (10) hours performed on Saturday shall be paid at one and one-half (1-1/2) times the straight time wage rate.

Daily Overtime Sunday- Employees shall be paid double time on Sundays if forty (40) straight time hours have been worked during the proceeding work week.

Holidays shall be paid double time for hours owed on recognized holidays.

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day. Any holiday falling on a Sunday will be observed on Monday.

**JOB DESCRIPTION:** Excerpt from Agreement between BAC 13 Nevada of the Mountain West Administrative District Council Master Labor Agreement

***TILE LAYERS' WORK:***

Tile laying shall consist of, but not be limited to, the following work procedures and installation of the following materials:

A. The laying, cutting or setting of all tile where used for floors, walls, ceilings, walks, promenade roofs, stair treads, stair risers, facings, hearths, fireplaces, and decorative inserts, together with any marble plinths, thresholds or window stools used in connection with any tile work; also, preparing and setting all concrete, cement, brickwork, or other foundation or materials that may be required to properly set and complete such work; setting or bedding all tiling, stone, marble, composition, glass, mosaic, or other materials forming the facing, hearth or fireplace of a mantel, or the mantel complete, together with setting of all cement, brickwork, or other materials required in connection with the above work; also the slabbing and fabrication of tile mantels, counters and tile panels of every description, and the erection and installation of same; the building, shaping, forming, construction or repairing of all fireplace work, whether in connection with a mantel hearth facing or not, and the setting and preparing of all material, such as cement, plaster, mortar, brickwork, iron work or other materials necessary for the proper and safe construction and completion of such work, except that a mantel made exclusively of brick, marble or stone, shall be conceded to be bricklayers', marble setters' or stonemasons' work, respectively.

B. It will be understood that the word "tile" refers to all burned clay products, as used in the tile industry, either glazed or unglazed, and to all composition materials made in single units up to 15"x20"x2", except quarry tiles larger than 9"x9"x1 1/4", also to mixtures in tile form of cement, plastics and metals that are made for and intended for use as a finished floor surface, whether upon interior or exterior floors, stair treads, promenade roofs, garden walks, interior walls, ceilings, swimming pools, and all places where tile may be used to form a finished surface for practical use, sanitary finish or decorative purposes, for setting all accessories in connection therewith, or for decorative inserts in other materials.

C. All terra cotta called unit tile in sizes of 6"x12" or under, regardless of method of installation, quarry tile 9"x9"x1 1/4" or less; split brick or quarry tile or similar material where the bed is floated or screeded and the joints grouted. Where the work is installed by tile layers, the grouting and cleaning shall be supervised by the mechanic. The bedding, jointing, and pointing of the above materials shall be the work of the craft installing the same. All clay products known as terra cotta tile, unit tile, ceramic veneer and machine-made terra cotta, and like materials in sizes 6"x12" and less regardless of the method of installation. Where the preponderance of materials to be installed comes within the provisions of this Section and when there is also some material in excess of the sizes provided for in this Section, the tile setter shall install all such materials.

D. The preparation, setup, calibration, operation, cleaning, and routine maintenance of any mechanical devices or robotics used to install tile and related materials, or that otherwise assist the tile layer in performing any of the work described in Article II and Code 1 of the IU Constitution, as well as the preparation and ongoing maintenance of the work area to allow proper installation of tile and related materials.

Craft: TRAFFIC BARRIER ERECTOR (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Traffic Barrier Erector.....43.73

**ADD ZONE RATE**

In addition to LABORER rates add the applicable amounts per hour, calculated based on a road miles from either the Carson City Courthouse or the Washoe County Courthouse:

|        |                    |        |
|--------|--------------------|--------|
| Zone 1 | 0 to 75 miles      | \$0.00 |
| Zone 2 | 75 to 150 miles    | \$4.00 |
| Zone 3 | 150 to 300 miles   | \$5.00 |
| Zone 4 | 300 miles and over | \$6.00 |

**ADD PREMIUM PAY**

One and one half (1 ½) the regular straight time hourly rate shall be paid:

1. For all hours worked over eight (8) hours in one day or shift.
2. For any hours worked on Saturday from midnight to midnight.

Double the regular straight time hourly rate shall be paid for all time:

1. For all hours worked over twelve (12) hours in one day or shift.
2. For any hours worked on Sunday from midnight to midnight.
3. For any hours worked on holidays from midnight to midnight.

**RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday. New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

**JOB DESCRIPTION:** Excerpt from Agreement between AGC and LIUNA Local 169

1. Distributing traffic control signs and markers along site in designated pattern;
2. Informing drivers of detour routes through construction sites;

Craft: Truck Driver (Non-Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

**Dump Trucks (Single or Multiple Units Including Semi's & Double Transfer Units), Dumpcretes and Bulk Cement Spreader**

|  |       |
|--|-------|
| Under 4 yds. (water level).....                | 27.86 |
| 4 yds. & under 8 yds. (water level).....       | 27.86 |
| 8 yds. & under 18 yds. (water level).....      | 27.86 |
| 18 yds. & under 25 yds. ( water level ) .....  | 27.86 |
| 25 yds. & under 60 yds. (water level).....     | 27.86 |
| 60 yds. & under 75 yds. (water level) ).....   | 27.86 |
| 75 yds. & under 100 yds. (water level) ).....  | 27.86 |
| 100 yds. & under 150 yds. (water level) )..... | 27.86 |
| 150 yds. & under 250 yds. (water level) )..... | 27.86 |
| 250 yds. & under 350 yds. (water level) )..... | 27.86 |
| 350 yds. & over (water level).....             | 27.86 |

**Transit Mix**

|                                     |       |
|-------------------------------------|-------|
| Under 8 yds.....                    | 27.86 |
| Under 8 yds & including 12 yds..... | 27.86 |
| Over 12 yds.....                    | 27.86 |

**Transit Mix (Using Boom)**

|  |       |
|--|-------|
| Transit mix with boom shall receive 16 cents per hour above the appropriate yardage classification rate of pay when such boom is used..... | 27.86 |
|--|-------|

**Water & Jetting Trucks**

|  |       |
|--|-------|
| Up to 2,500 gallons.....   | 27.86 |
| Up to 2,500 gallons & over.....  | 27.86 |
| DW 20's & 21's & other similar Cat type, Terry Cobra LeTourneau pulls, Tournerocker, Euclid, & similar type equipment when pulling Aqua/Pak, Water Tank Trailers, & Fuel, and/or Grease Tank Trailer, or other miscellaneous Trailers, (except as defined under "Dump Trucks") |       |
| Heavy Duty Transport (High Bed).....   | 27.86 |
| Heavy Duty Transport(Gooseneck low bed).....   | 27.86 |
| Tiltbed or Flatbed Pull Trailers.. ..  | 27.86 |
| Bootman, Comb. Bootman & Road Oiler.....   | 27.86 |
| Flat Rack (2 or 3 axle unit).....  | 27.86 |

**Bus & Manhaul Drivers**

|                                      |       |
|--------------------------------------|-------|
| Up to 18,000 lbs. (single unit)..... | 27.86 |
| 18,000 lbs. and over .....           | 27.86 |
| Warehousemen Spotter .....           | 27.86 |

**Winch Truck & "A" Frame Drivers**

|  |       |
|--|-------|
| Up to 18,000 lbs.....                            | 27.86 |
| 18,000 lbs. and over.....                        | 27.86 |
| Warehousemen Spotter.....                        | 27.86 |
| Warehouse Clerk.....                             | 27.86 |
| Tire Repairmen.....                              | 27.86 |
| Truck Repairmen.....                             | 27.86 |
| Pick Up Truck & Pilot Cars (Jobsite) .....       | 27.86 |
| Pick Up Truck & Pilot Cars (Over the road) ..... | 27.86 |
| Truck Oil Greaser.....                           | 27.86 |
| Fuel Truck Driver.....                           | 27.86 |
| Fuel Man & Fuel Island Man.....                  | 27.86 |
| Oil Tanker.....                                  | 27.86 |

|                          |       |
|--------------------------|-------|
| Oil Tanker with Pup..... | 27.86 |
| Foreman.....             | 27.86 |

**TRUCK DRIVER**

Includes but is not limited to:

Driving a tractor trailer combination or a truck to transport goods or materials at the site of a public work or between sites of a public work. (Also, see descriptions listed with Truck Driver rates, if any.)

Craft: WELL DRILLER (Non-Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

Well Driller.....30.35

**JOB DESCRIPTIONS**

1. Setting, operating or tending to portable drilling rig machinery and related equipment to drill wells;
2. Extending stabilizing jackscrews to support and level a drilling rig;
3. Installing water well pumps;
4. Drillings wells for industrial water supplies, irrigation water supplies or water supplies for any other purpose; dewatering or other similar purposes; exploration; hole drilling for geologic and hydrologic information; and core drilling for geologic information.

# GROUP CLASSIFICATIONS

---

LABORER, includes but is not limited to:

## Group 1

- All cleanup work of debris, grounds, and building including windows and tile
- Dumpmen or Spotter (other than asphalt)
- Handling and Servicing of Flares, Watchmen
- General Laborer
- Guideposts and Highway Signs
- Guardrail Erection and Dismantling
- Limber, Brushloader and Piler
- Pavement Marking and Highway Striping
- Traffic Barrier Erector
- Tending to portable space heaters
- Profilograph work all types manual, self propelled or carts
- Gabion basket, building, handling, installation and rigging
- Dry set paver work
- Traffic Barrier Erector

## Group 2

- Choker setter or Rigger (clearing work only) Pittsburgh
- Chipper and similar type brush shredders
- Concrete worker (wet or dry) all concrete work not listed in Group 3 included but not limited to: concrete forms stripping, handling, cleaning, oiling and moving to the next point of installation.
- Crusher or Grizzly Tender
- Greasing Dowels
- Guinea Chaser (Stakemen)
- Panel Forms (wood or metal) handling, cleaning and stripping of Loading and unloading, (Carrying and handling of all rods and material for use in reinforcing concrete
- Railroad Trackmen (maintenance, repair or builders)
- Sloper
- Semi-Skilled Wrecker (salvaging of building materials other than those listed in Group 3)
- Waterproofing work
- Epoxy rebar/dowels and anchoring dowel baskets
- Placement pouring of concrete including any epoxy resin or similar materials, rodding, spreading and tamping concrete, brooming or brushing, hand application of curing compounds, applying topping (wet or dry) colors or grits, and exposed finishes for architectural work
- Concrete patching, dry packing, chipping, stoning, and grouting
- Concrete cold weather/rain protection and curing
- Placement /anchoring of all earth stabilization/filters fabrics,
- Mechanically stabilized Earth (MSE) and Keystone type retaining walls rigging, placing , aligning, backfilling and installation of dead men and any stabilization compenents

## Group 3

- Asphalt Workers (Ironers, Shovelers, Cutting Machine)
- Buggymobile

- Chainsaw, Faller, Logloader and Bucker
- Compactor (all types)
- Concrete Mixer under 1/2 yard
- Concrete Pan Work (Breadpan type), handling, cleaning/stripping
- Concrete Saw, Chipping, Grinding, Sanding, Vibrator
- Cribbing, Shoring, Lagging, Trench Jacking, Hand-Guided Lagging Hammer
- Curbing or Divider machine
- Curb Setter (precast or cut)
- Ditching Machine (hand-guided)
- Drillers Helper, Chuck Tender
- Fence erector including safety, chain link, turtle, field and barbe wire fencing
- Form Raiser, Slip Forms
- Grouting of Concrete Walls, Windows and Door Jams
- Headerboardmen
- Jackhammer, Pavement Breaker, Air Spade
- Mastic Worker (wet or dry)
- Pipewrapper, Kettlemen, Potmen, and men applying asphalt, creosote and similar type materials
- All Power Tools (air, gas, or electric), Post Driver
- Riprap-Stonepaver and RockSlinger, including placing of sack concrete wet or dry Rototiller
- Rigging and Signaling in connection with Laborers' work
- Sandblaster, Potmen, Gunmen or Nozzlemen water blasting not covered in group 5A
- Vibra-screed
- All demolition and wrecking work including but not limited t any torch work cutting, burning, plasma are, dust control, and salvaging (removing and salvaging of all materials, windows, doors, plumbing, and electrical fixtures) and use of customary tools and equipment for demolition and wrecking
- All underpinning foundation work, digging and underpinning pits, removal of debris with tuggers or other methods, cutting, handling and installing all shoring boards and lagging boards used for underpinning and foundation work, placement and tying of steel reinforcing for underpinning piers, all tiebacks and soil nail work drilling and grouting, all soldier beam work and us of customary tools and equipment for underpinning foundation work

### **Group 3A**

- Concrete Specialist
- Setting screeds
- Screed pins
- Curb forms and curb and gutter forms,
- Using Darby and push floats,
- Hand trowels or hand floating
- Marking edging
- Using base cove or step tools
- Spreading and finishing gypsum
- Concrete grinding machines (the terms does not include Rotomill machines for highway overlay grinding)
- Troweling machines,
- Floating machines
- Finishing of epoxy or resin materials,
- Operation of skill saw

- Laser Screed
- Laser Level
- Curb and Slipform machines,
- Stamps or other means or texturing,
- Any new devices which are beneficial to the construction of or with concrete or related products.

#### **Group 4**

- Burning and Welding in connection with Laborers' work
- Joy Drill Model TWM-2A, Gardner Denver Model DN143 and similar type drills (in accordance with Memorandum of Understanding between Laborers and Operating Engineers dated at Miami, Florida, Feb. 3, 1954) and Track Drillers, Diamond Core Drillers, Wagon Drillers, Mechanical Drillers on Multiple Units
- High scalers including but not limited to laying, anchoring, pinning, cabling and stretching of any rock fall netting, mesh or wire fabric and use of customary tools and equipment for high scaling
- Concrete pump operator
- Heavy Duty Vibrator with Stinger 5" diameter or over
- Pipelayer, Caulker and Bander
- Pipelayer-waterline, Sewerline, Gasoline, Conduit and all other types of composition for any purpose buried under ground outside of building including, stringing, trench shoring, backfilling sanding, caution taping, all walk behind equipment and spotting
- Laborer work in connection with micro tunneling, directional drilling and pipe-jacking
- Cathodic protection, grounding for pipe work
- Cleaning of Utility Lines
- Slip Lining of Utility Lines (including operation of Equipment)
- TV Monitoring and Grouting of Utility Lines
- Asphalt Rakers and Asphalt dump Man
- All mechanical and pressurized pipe work, including the installation of pipe above and below ground, cathodic protection, bolt up, and support installation in connection to water conveyance, c

#### **Group 4A**

- Foreman

#### **Group 5**

- Construction Specialists
- Blasters and Powdermen, all work of loading, placing, and blasting of all powder and explosives of any type, regardless of method used for such loading and placing
- Asbestos removal
- Lead abatement
- Hazardous waste
- Material removal

#### **Group 5A**

- Pavement Marking and Highway Striping
- Pavement Marking and Highway Striping Foreman
- Pavement Marking and Highway Striping work includes but is not limited to: All work by any method performed in connection with the permanent or temporary application and installation of pavement marking of any kind, brand, type or style on parking lots, airfields, highways,

streets and other such surfaces and all work performed in connection with removal of pavement.

**Group 6**

- Guniting Foremen, Nozzlemen, Rodmen, Gunmen, Materialmen, Reboundmen
  - Tunnel and shaft workers/miners and use of customary tools and equipment for tunnel and mine work All work performed in a compressed air tunnel shaft or chamber including the use of hand, power tools or equipment as necessary in connection with compressed air work
-

**OPERATING ENGINEER, includes but is not limited to:**

**Group 1**

- Engineer Assistant

**Group 1A**

- Heavy Duty Repairman Helper
- Oiler
- Parts man

**Group 2**

- Compressor Operator
- Material Loader and/or Conveyor Operator (handling building materials)
- Pump Operator

**Group 3**

- Bobcat or similar loader, 1/4 cu. yd. or less
- Concrete Curing Machines (streets, highways, airports, canals)
- Conveyor Belt Operator (tunnel)
- Forklift (under 20)
- Engineer Generating Plant (500 K.W.)
- Mixer Box Operator (concrete plant)
- Motorman
- Rotomist Operator
- Oiler (truck crane)

**Group 4**

- Concrete Mixer Operator, Skip type
- Dinky Operator
- Forklift (20' or over) or Lumber Stacker
- Ross Carrier
- Skip Loader Operator (under one (1) cu. yd.)
- Tie Spacer

**Group 5**

- Concrete Mixers (over one (1) cu. yd.)
- Concrete Pumps or Pumpcrete Guns
- Elevator and Material Hoist (one (1) drum)
- Groundman for Asphalt Milling and similar

**Group 6**

- Auger type drilling equipment up to and including 30 ft. depth digging capacity M.R.C.
- Boom Truck or Dual-Purpose a-Frame Truck
- B.L.H. Lima Road Pactor or similar
- Chip Box Spreader (Flaherty type or similar)
- Concrete Batch Plant (wet or dry)
- Concrete Saws (highways, streets, airports, canals)
- Locomotives (over thirty (30) tons)
- Maginnis International Full Slab Vibrator (airports, highways, canals and warehouses)
- Mechanical Finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types)

- Mechanical Burn, Curb and/or Curb and Gutter Machine (concrete or asphalt)
- Pavement Breaker, Truck Mounted, with compressor combination
- Pavement Breaker or Tamper (with or without compressor combination)
- Power Jumbo Operator (setting slip-forms, etc., in tunnels)
- Roller Operator (except asphalt)
- Self-Propelled Tape Machine
- Self-Propelled Compactor (single engine)
- Self-Propelled Power Sweeper Operator
- Slip-Form Pump (power-driven by hydraulic, electric, air, gas, etc. lifting device for concrete forms)
- Small Rubber-Tired Tractors
- Snooper Crane, Paxton-Mitchell or similar
- Stationary Pipe Wrapping, Cleaning and Bending Machine Operator

### **Group 7**

- Auger type drilling equipment over 30 ft. depth digging capacity M.R.C.
- Compressor (over 2)
- Concrete Conveyor or Concrete Pump, truck or equipment mounted (any assistance required shall be performed by an Assistant to Engineer) Boom length to apply Concrete Conveyor, Building Site
- Drilling and Boring Machine, vertical and horizontal (not to apply to waterliners, wagon drills or jack hammers)
- Crusher Plant Engineer
- Generators
- Kolman Loader
- Material Hoist (two (2) or more drums)
- Mine or Shaft Hoist
- Pipe Bending Machines (pipeline only)
- Pipe Cleaning Machines (tractor-propelled and supported)
- Pipe Wrapping Machines (tractor-propelled and supported)
- Portable Crushing and Screening Plants
- Post Driller And/Or Driver
- Pumps (over 2)
- Screedman (except asphaltic or concrete paving)
- Self-Propelled Boom-Type Lifting Device (center mount) (on ten (10) ton capacity or less)
- Slusher Operator
- Surface Heater and Planer Operator
- Trenching Machine (maximum digging capacity three (3) ft. depth) (Any assistance in the operation, if needed, shall be performed by an Assistant to Engineer)
- Truck-Type Loader
- Welding Machines (gasoline or diesel)

### **Group 8**

- Asphalt Plant Engineer
- Asphalt Milling Machine
- Cast-In-Place Pipe-Laying Machine
- Combination Slusher and Motor Operator
- Concrete Batch Plant (multiple units)
- Dozer Operator

- Drill Doctor
- Elevating Grader Operator
- Grooving and Grinding Machine (highways)
- Ken Seal Operator
- Loader (up to and including two and one-half (2 1/2) cu. yds)
- Mechanical Trench Shield
- Mechanical Finishers or Spreader Machine (asphalt, Barber-Greene or similar)
- Mixermobile
- Push Cats
- Road Oil Mixing Machine Operator Wood-Mixer (and other similar Pugmill equipment)
- Roller Operator (asphalt)
- Rubber-Tired Earthmoving Equipment (up to and including thirty-five (35) cu. yds. "struck " M.R.C., Euclids, T-Pulls, DW10, 20, 21 and similar)
- Screedman (Barber-Greene and similar) (asphaltic or concrete paving)
- Self-Propelled Compactors with Dozer; Hyster 450, Cat 825 or similar
- Sheepfoot
- Small Tractor (with boom)
- Soil Stabilizer (P & H or equal)
- Timber Skidder (rubber-tired) or similar equipment
- Tractor-Drawn Scraper
- Tractor Operator
- Tractor-Mounted Compressor Drill Combination
- Trenching Machine Operator (over three (3) feet depth)
- Tri-Batch Paver
- Tunnel Badger or Tunnel Boring Machine Operator
- Tunnel Mole Boring Machine
- Vermeer T-600b Rock Cutter

### **Group 9**

- Chicago Boom
- Combination Backhoe and Loader (up to and including 3/8 cu. yd.)
- Combination Mixer and Compressor (gunite)
- Heavy Duty Repairman and/or Welder
- Lull Hi-Lift (twenty (20) feet or over)
- Mucking Machine
- Sub-Grader (Gurries or other types)
- Tractor (with Boom) (D6 or larger)
- Track-Laying-Type Earthmoving Machine (single engine with tandem scrapers)

### **Group 10**

- Boom-Type Backfilling Machine
- Bridge Crane
- Cary-Lift or similar
- Chemical Grouting Machine
- Derricks (two (2) Group 10 Operators required when swing engine remote from hoist)
- Derrick Barges (except excavation work)
- Euclid Loader and similar types
- Heavy Duty Rotary Drill Rigs
- Lift-Slab (Vagtborg and similar types)

- Loader (over two and one-half (2 1/2 cu. yds. up to and including four (4) cu. yds.)
- Locomotive (over one hundred (100) tons, single or multiple units)
- Multiple-Engine Earthmoving Machines (Euclid Dozers, etc.)
- Pre-Stress Wire Wrapping Machine
- Rubber-Tired Scraper, Self-Loading
- Single-Engine Scraper (over thirty-five (35) cu. yds.)
- Shuttle Car (Reclaim Station)
- Train Loading Station
- Trenching Machine multi-engine with sloping attachments (Jefco or similar)
- Vacuum Cooling Plant
- Whirley Crane (up to and including twenty-five (25) tons)

#### **Group 10A**

- Backhoe-Hydraulic (up to and including one (1) cu. yd.)
- Backhoe (up to and including one (1) cu. yd.) (Cable)
- CMI Dual Lane Auto-Grader SP30 or similar type
- Cranes (not over twenty-five (25) tons) (hammerhead and gantry)
- Finish Blade
- Gradalls (up to and including one (1) cu. yd.)
- Motor Patrol Operator
- Power Shovels, Clamshells, Draglines, Cranes (up to and including one (1) cu. yd.)
- Rubber-Tired Scraper, Self-Loading (twin engine)
- Self-Propelled Boom-Type Lifting Device, center mount (over 10 tons up to and including 25 tons)

#### **Group 11**

- Automatic Asphalt or Concrete Slip-Form Paver
- Automatic Railroad Car Dumper
- Canal Trimmer
- Cary Lift, Campbell or similar type
- Cranes (over twenty-five (25) tons)
- Euclid Loader when controlled from the Pullcat
- Gradesetter, Grade Checker
- Highline Cableway Operator
- Loader (over four (4) cu. yds. up to and including twelve (12) cu. yds.)
- Multi-Engine Earthmoving Equipment (up to and including seventy-five (75) cu. yds. struck m.r.c.)
- Multi-Engine Scrapers (when used to Push Pull)
- Power Shovels, Clamshells, Draglines, Backhoes Gradalls (over one (1) cu. yd. and up to and including seven (7) cu. yds. m.r.c.)
- Self-Propelled Boom-Type Lifting Device (center mount) (over 25 tons m.r.c.)
- Self-Propelled Compactor (with multiple-propulsion power units)
- Single-Engine Rubber-Tired Earthmoving Machine, with Tandem Scraper
- Slip-Form Paver (concrete or asphalt)
- Tandem Cats and Scraper
- Tower Crane Mobile (including Rail Mount)
- Truck Mounted Hydraulic Crane when remote control equipped (over 10 tons up to and including 25 tons)
- Universal Liebherr and Tower Cranes (and similar types)

- Wheel Excavator (up to and including seven hundred fifty (750) cu. yds. per hour)
- Whirley Cranes (over twenty-five (25) tons)

**Group 11A**

- Band Wagons (in conjunction with Wheel Excavators)
- Operator of Helicopter) when used in construction work)
- Loader (over twelve (12) cu. yds.)
- Multi-Engine Earthmoving Equipment (over seventy-five (75) cu. yds. "struck" m.r.c.)
- Power Shovels. Clamshells, Draglines, Backhoes, and Gradalls (over seven 7 cu. yds. m.r.c.)
- Remote-Controlled Earth Moving Equipment
- Wheel Excavator (over seven hundred fifty (750) cu. yds. per hour)

**Group 11B**

- Holland Loader or similar or Loader (over 18 cu. yds.)
- 

**OPERATING ENGINEERS - Steel Fabricator & Erector**

**Group 1**

- Cranes over 100 tons
- Derrick over 100 tons
- Self-Propelled Boom Type Lifting Devices over 100 tons

**Group 2**

- Cranes over 45 tons up to and including 100 tons
- Derrick, 100 tons and under
- Self-Propelled Boom Type Lifting Device, over 45 tons
- Tower Crane

**Group 3**

- Cranes, 45 tons and under
- Self-Propelled Boom Type Lifting Device, 45 tons and under

**Group 4**

- Chicago Boom
- Forklift, 10 tons and over
- Heavy Duty Repairman/Welder

**Group 5**

- Boom Cat
- 

**OPERATING ENGINEER -PILEDRIVER**

**Group 1**

- Derrick Barge Pedestal mounted over 100 tons
- Clamshells over 7 cu. yds.
- Self-Propelled Boom Type Lifting Device, over 100 tons
- Truck Crane or Crawler, land or barge mounted over 100 tons

**Group 2**

- Derrick Barge Pedestal mounted 45 tons up to and including 100 tons
- Clamshells up to and including 7 cu. yds.
- Self-Propelled Boom Type Lifting Device over 45 tons
- Truck Crane or Crawler, land or barge mounted, over 45 tons up to and including 100 tons

### **Group 3**

- Derrick Barge Pedestal mounted under 45 tons
- Self-Propelled Boom Type Lifting Device 45 tons and under
- Skid/Scow Piledriver, any tonnage
- Truck Crane or Crawler, land or barge mounted 45 tons and under

### **Group 4**

- Assistant Operator in lieu of Assistant to Engineer
- Forklift, 10 tons and over
- Heavy Duty Repairman/Welder

### **Group 5**

No current classification

### **Group 6**

- Deck Engineer

### **Group 7**

No current classification

### **Group 8**

- Deckhand
  - Fireman
-



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## 2021-2022 Prevailing Wage Rate Amendment 1

### Amendment 1

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- AMENDMENT 1
- Classification – Ironworker Zone Rate correction
- County – All Regions
- Effective – October 4, 2021

The following represents the amended wage rates.

#### ADD ZONE RATE

In addition to Iron Worker rates add the applicable amounts per DAY, calculated based on a road mile from the Reno or Las Vegas City Hall.

|         |                    |         |
|---------|--------------------|---------|
| Zone 1- | 60 - 75 Miles      | \$20.00 |
| Zone 2- | 75 - 100 Miles     | \$25.00 |
| Zone 3- | 100 miles and over | \$75.00 |



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## 2021-2022 Prevailing Wage Rate Amendment 1a

### Amendment 1a

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- AMENDMENT 1a
- Classification – Ironworker Wage and Zone Rate combined
- County – All Regions
- Effective – October 11, 2021

The following represents the amended wage rates.

Craft: Ironworker (Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

|                                   |       |
|-----------------------------------|-------|
| -                                 |       |
| Ironworker - Journeyman.....      | 79.90 |
| Ironworker - Foreman.....         | 81.20 |
| Ironworker - General Foreman..... | 85.93 |

### ADD ZONE RATE

In addition to Iron Worker rates add the applicable amounts per day, calculated based on a road mile from the Reno or Las Vegas City Hall.

|        |                    |         |
|--------|--------------------|---------|
| Zone 1 | 60 – 75 miles      | \$20.00 |
| Zone 2 | 75 - 100 miles     | \$25.00 |
| Zone 3 | 100 miles and over | \$75.00 |

### ADD PREMIUM PAY

One and one half (1X) the regular straight time hourly rate shall be paid:

For the first two (2) hours worked in excess of eight (8) on a regular workday Monday-Friday

For the first eight (8) hours on Saturday

Double the regular straight time hourly rate shall be paid for all time:

For all hours worked over ten (10) hours in one day or shift.

For any hours worked on Sunday.

For all hours worked over eight (8) on Saturday

For all hours worked on Holidays

Shift Pay

1. 2nd shift add 6% of hourly wage
2. 3rd shift add 13% of hourly wage
3. Dedicated shift add 6% of hourly wage

**RECOGNIZED HOLIDAYS**

New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.



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## 2021-2022 Prevailing Wage Rate Amendment 5

### Amendment 5

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- AMENDMENT 5
- Classification – Mechanical Insulator ZONE RATE
- County – Washoe County and Northern Nevada Rural Regions
- Effective – November 12, 2021

The following represents the amended wage rates.

Craft: MECHANICAL INSULATOR ZONE PAY(Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

#### **ADD ZONE RATE**

In addition to MECHANICAL INSULATOR rates add the applicable amounts per DAY, calculated based on a radius figured from Reno City Hall:

|        |                |         |
|--------|----------------|---------|
| Zone 1 | 0 to 20 miles  | \$11.00 |
| Zone 2 | 21 to 40 miles | \$21.00 |
| Zone 3 | 41 to 60 miles | \$31.00 |
| Zone 4 | Over 60 miles  | \$85.00 |



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## 2021-2022 Prevailing Wage Rate Amendment 6

### Amendment 6

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- AMENDMENT 6
- Classification – Laborer Recognized Holidays
- County – Washoe County and Northern Nevada Rural Regions
- Effective – November 23, 2021

The following represents the amended wage rates.

Craft: Laborer(Union Rate)

**Prevailing wage rates include the base rate as well as all applicable fringes**

### **RECOGNIZED HOLIDAYS**

If any of these holidays fall on Sunday, the Monday following shall be considered a Holiday.

New Year's Day, President's Day, Memorial Day, Fourth of July, Labor Day, Admission Day, Thanksgiving Day, Day after Thanksgiving Day, Christmas Day.

## NDOT BIDDER SUBCONTRACTOR AND SUPPLIER INFORMATION

### ENTERPRISE SUBCONTRACTORS AND SUPPLIERS

DBEs and SBEs must be certified by the Nevada Unified Certification Program. DBE and SBE participation is calculated at 100% of each subcontractor's bid amount and 60% of each supplier's bid amount. Total DBE and SBE participation is subject to NDOT verification.

**Contract No.:** 3930  
**Location:** SR 659

**Project No(s):** SPSR-0659(004)

**Bid Amount:** \$2,633,633.00  
**Contractor:** Granite Construction Company  
**Address:** 585 West Beach Street  
 Watsonville, CA 95076

**Enterprise Goal Type:** SBE  
**Enterprise Goal:** 4.50 %

**Phone:** (831) 724-1011

|                                  | <u>Subcontractor or Supplier</u>  | <u>Supplier</u> | <u>Bid Amount</u> | <u>Non-Enterprise Bid Amount</u> | <u>Participation</u> |
|----------------------------------|---|-----------------|-------------------|----------------------------------|----------------------|
| 1                                | Titan Electrical Contracting, Inc.<br>5450 Mill Street #100<br>Reno, NV 89502<br>(775) 857-4500<br>Enterprise Type: SBE<br><br>Description: Electrical<br>Item No(s): 6230230, 6230775, 6231820, 6280120(Partial) | No              | \$86,960.00       | \$0.00                           | \$86,960.00          |
| 2                                | MAPCA SURVEYS INC<br>9650 Gateway Drive, Suite 102<br>RENO, NV 89521<br>(775) 842-2421<br>Enterprise Type: DBE/SBE<br><br>Description: Survey<br>Item No(s): 6280120(Partial)                                     | No              | \$14,885.00       | \$0.00                           | \$14,885.00          |
| 3                                | Desert Commercial Sweeping Inc.<br>5620 Madras Street<br>Carson City, NV 89704<br><br>Enterprise Type: SBE<br><br>Description: Sweeping<br>Item No(s): 2020990(Partial), 2020995(Partial)                         | No              | \$29,900.00       | \$10,000.00                      | \$19,900.00          |
| <b>Total Participation Goal:</b> |   |                 | \$118,513.49      | <b>Total Participation:</b>      | \$121,745.00         |

**NDOT BIDDER SUBCONTRACTOR AND SUPPLIER INFORMATION**

**SUBCONTRACTORS EXCEEDING FIVE (5) PERCENT OF THE BID AMOUNT**

None Listed

**SUBCONTRACTORS EXCEEDING ONE (1) PERCENT OF THE BID AMOUNT**

Subcontractors exceeding 1 percent or \$50,000 (whichever is greater)

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|  |                              |
|--|------------------------------|
| <b>Company Name:</b> Titan Electrical Contracting, Inc.        | <b>Exceeds \$250,000:</b> No |
| <b>NV License No.:</b> 69814                                   | <b>Supplier:</b> No          |
| <b>NV License Limit:</b> Unlimited                             |                              |
| <b>Description:</b> Electrical                                 |                              |
| <b>Item No(s):</b> 6230230, 6230775, 6231820, 6280120(Partial) |                              |

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|   |                              |
|---|------------------------------|
| <b>Company Name:</b> Nevada Barricade & Sign Company, Inc.  | <b>Exceeds \$250,000:</b> No |
| <b>NV License No.:</b> 0052315  | <b>Supplier:</b> No          |
| <b>NV License Limit:</b> Unlimited  |                              |
| <b>Description:</b> Signage / Striping / Guardrail  |                              |
| <b>Item No(s):</b> 6180250, 6280120(Partial), 6320800, 6320830, 6320870, 6320920, 6320930, 6320950, 6321010, 6341030, 6341060 |                              |

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|   |                              |
|---|------------------------------|
| <b>Company Name:</b> Pavement Recycling Systems, Inc. | <b>Exceeds \$250,000:</b> No |
| <b>NV License No.:</b> 0036228                        | <b>Supplier:</b> No          |
| <b>NV License Limit:</b> Unlimited                    |                              |
| <b>Description:</b> Cold Milling                      |                              |
| <b>Item No(s):</b> 2020990(Partial), 2020995(Partial) |                              |

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**OTHER SUBCONTRACTORS AND SUPPLIERS USED**

Subcontractors and suppliers not otherwise listed in the Enterprise, or Exceeding 5%, or 1% Reports

None Listed

**OTHER SUBCONTRACTORS AND SUPPLIERS NOT USED**

None Listed

**Bid Tabulation**  
Nevada Department of Transportation

Contract No.: 3930  
Project No(s): SPSR-0659(004)

Contract Description:  
mill and fill

Awarded To: Granite Construction Company  
585 West Beach Street  
Watsonville, CA 95076

Bids Opened: July 07, 2022, 1:30 PM

Contract Location: SR 659

Amount: \$2,633,633.00  
Date: July 21, 2022

Certified by:   
Administrative Services Officer

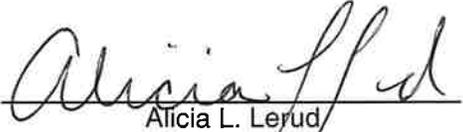
| Item No. | Quantity   | Unit  | Description  | Engineer's Estimate |              | Granite Construction Company<br>585 West Beach Street<br>Watsonville, CA 95076 |                | Sierra Nevada Construction, Inc.<br>PO Box 50760<br>Sparks, NV 89435 |                | Unit Price | Amount | Unit Price | Amount |
|----------|------------|-------|--|---------------------|--------------|--|----------------|--|----------------|------------|--------|------------|--------|
|          |            |       |  | Unit Price          | Amount       | Unit Price   | Amount         | Unit Price   | Amount         |            |        |            |        |
| 2020925  | 13.000     | EACH  | REMOVAL OF PULL BOX  | \$200.00            | \$2,600.00   | \$240.00   | \$3,120.00     | \$250.00   | \$3,250.00     |            |        |            |        |
| 2020935  | 20.000     | CUYD  | REMOVAL OF COMPOSITE SURFACE                               | \$200.00            | \$4,000.00   | \$200.00   | \$4,000.00     | \$300.00   | \$6,000.00     |            |        |            |        |
| 2020955  | 16.000     | LINFT | REMOVAL OF BITUMINOUS SHOULDER DIKE                        | \$10.00             | \$160.00     | \$37.00  | \$592.00       | \$30.00  | \$480.00       |            |        |            |        |
| 2020990  | 56,867.000 | SQYD  | REMOVAL OF BITUMINOUS SURFACE (COLD MILLING)               | \$1.50              | \$85,300.50  | \$5.40   | \$307,081.80   | \$4.25   | \$241,684.75   |            |        |            |        |
| 2020995  | 2,843.000  | SQYD  | REMOVAL OF BITUMINOUS SURFACE (MISCELLANEOUS COLD MILLING) | \$2.00              | \$5,686.00   | \$5.90   | \$16,773.70    | \$4.25   | \$12,082.75    |            |        |            |        |
| 3020140  | 15.000     | CUYD  | TYPE 1 CLASS B AGGREGATE BASE                              | \$300.00            | \$4,500.00   | \$290.00   | \$4,350.00     | \$250.00   | \$3,750.00     |            |        |            |        |
| 4020130  | 16.000     | LINFT | PLANTMIX BITUMINOUS SHOULDER DIKES                         | \$25.00             | \$400.00     | \$170.00   | \$2,720.00     | \$200.00   | \$3,200.00     |            |        |            |        |
| 4020180  | 9,278.000  | TON   | PLANTMIX SURFACING (TYPE 2) (WET)                          | \$100.00            | \$927,800.00 | \$132.00   | \$1,224,696.00 | \$145.00   | \$1,345,310.00 |            |        |            |        |
| 4030110  | 2,182.000  | TON   | PLANTMIX OPEN-GRADED SURFACING (3/8-INCH) (WET)            | \$105.00            | \$229,110.00 | \$205.00   | \$447,310.00   | \$215.00   | \$469,130.00   |            |        |            |        |
| 6090260  | 9.000      | EACH  | ADJUSTING MANHOLE COVERS (METHOD B)                        | \$1,500.00          | \$13,500.00  | \$4,200.00   | \$37,800.00    | \$2,000.00   | \$18,000.00    |            |        |            |        |
| 6090570  | 1.000      | EACH  | ADJUSTING COVERS (SPECIAL)                                 | \$2,500.00          | \$2,500.00   | \$4,200.00   | \$4,200.00     | \$2,000.00   | \$2,000.00     |            |        |            |        |
| 6090600  | 3.000      | EACH  | ADJUSTING VALVE COVERS (METHOD B)                          | \$1,000.00          | \$3,000.00   | \$4,200.00   | \$12,600.00    | \$1,500.00   | \$4,500.00     |            |        |            |        |
| 6130880  | 19.000     | LINFT | CLASS AA CONCRETE CURB AND GUTTER (TYPE 7) (MODIFIED)      | \$200.00            | \$3,800.00   | \$195.00   | \$3,705.00     | \$345.00   | \$6,555.00     |            |        |            |        |
| 6180250  | 84.000     | LINFT | REMOVE AND RESET GUARDRAIL                                 | \$15.00             | \$1,260.00   | \$65.75  | \$5,523.00     | \$67.00  | \$5,628.00     |            |        |            |        |
| 6230230  | 13.000     | EACH  | NO. 5 PULL BOX   | \$1,500.00          | \$19,500.00  | \$1,040.00   | \$13,520.00    | \$1,040.00   | \$13,520.00    |            |        |            |        |
| 6230775  | 96.000     | EACH  | LOOP DETECTOR  | \$550.00            | \$52,800.00  | \$690.00   | \$66,240.00    | \$690.00   | \$66,240.00    |            |        |            |        |
| 6231820  | 120.000    | LINFT | 3-INCH CONDUIT   | \$40.00             | \$4,800.00   | \$40.00  | \$4,800.00     | \$40.00  | \$4,800.00     |            |        |            |        |
| 6240130  | 1.000      | FA    | UNIFORMED TRAFFIC CONTROL OFFICER                          | \$21,000.00         | \$21,000.00  | \$21,000.00  | \$21,000.00    | \$21,000.00  | \$21,000.00    |            |        |            |        |
| 6240140  | 30.000     | DAY   | TRAFFIC CONTROL SUPERVISOR                                 | \$800.00            | \$24,000.00  | \$1,400.00   | \$42,000.00    | \$650.00   | \$19,500.00    |            |        |            |        |
| 6250490  | 1.000      | LS    | RENT TRAFFIC CONTROL DEVICES                               | \$150,000.00        | \$150,000.00 | \$150,000.00   | \$150,000.00   | \$140,454.50   | \$140,454.50   |            |        |            |        |
| 6280120  | 1.000      | LS    | MOBILIZATION   | \$99,028.59         | \$99,028.59  | \$192,947.25   | \$192,947.25   | \$175,000.00   | \$175,000.00   |            |        |            |        |
| 6320800  | 1,120.000  | SQFT  | EPOXY PAVEMENT STRIPING (VARIES)                           | \$25.00             | \$28,000.00  | \$10.00  | \$11,200.00    | \$10.00  | \$11,200.00    |            |        |            |        |
| 6320830  | 633.000    | LINFT | EPOXY PAVEMENT STRIPING (8-INCH DOTTED WHITE)              | \$4.00              | \$2,532.00   | \$0.75   | \$474.75       | \$0.75   | \$474.75       |            |        |            |        |
| 6320870  | 2.960      | MILE  | EPOXY PAVEMENT STRIPING (BROKEN WHITE)                     | \$1,800.00          | \$5,328.00   | \$1,000.00   | \$2,960.00     | \$1,000.00   | \$2,960.00     |            |        |            |        |
| 6320920  | 1.580      | MILE  | EPOXY PAVEMENT STRIPING (6-INCH SOLID WHITE)               | \$3,500.00          | \$5,530.00   | \$5,000.00   | \$7,900.00     | \$5,000.00   | \$7,900.00     |            |        |            |        |
| 6320930  | 2,640.000  | LINFT | EPOXY PAVEMENT STRIPING (8-INCH SOLID WHITE)               | \$5.00              | \$13,200.00  | \$0.75   | \$1,980.00     | \$0.75   | \$1,980.00     |            |        |            |        |
| 6320950  | 68.000     | LINFT | EPOXY PAVEMENT STRIPING (12-INCH SOLID WHITE)              | \$15.00             | \$1,020.00   | \$6.00   | \$408.00       | \$6.00   | \$408.00       |            |        |            |        |
| 6321010  | 1.480      | MILE  | EPOXY PAVEMENT STRIPING (SOLID YELLOW)                     | \$2,500.00          | \$3,700.00   | \$4,000.00   | \$5,920.00     | \$4,000.00   | \$5,920.00     |            |        |            |        |

| Item No.       | Quantity  | Unit  | Description  | Engineer's Estimate |                       | Granite Construction Company<br>585 West Beach Street<br>Watsonville, CA 95076 |                       | Sierra Nevada Construction, Inc.<br>PO Box 50760<br>Sparks, NV 89435 |                       | Unit Price | Amount | Unit Price | Amount |
|----------------|-----------|-------|--|---------------------|-----------------------|--|-----------------------|--|-----------------------|------------|--------|------------|--------|
|                |           |       |  | Unit Price          | Amount                | Unit Price   | Amount                | Unit Price   | Amount                |            |        |            |        |
| 6341030        | 1,071.000 | LINFT | THERMOPLASTIC PAVEMENT MARKING (24-INCH SOLID WHITE) | \$25.00             | \$26,775.00           | \$16.50  | \$17,671.50           | \$16.75  | \$17,939.25           |            |        |            |        |
| 6341060        | 907.000   | SQFT  | THERMOPLASTIC PAVEMENT MARKING (VARIES)              | \$25.00             | \$22,675.00           | \$20.00  | \$18,140.00           | \$20.00  | \$18,140.00           |            |        |            |        |
| 6370110        | 1.000     | LS    | TEMPORARY POLLUTION CONTROL                          | \$5,000.00          | \$5,000.00            | \$2,000.00   | \$2,000.00            | \$5,000.00   | \$5,000.00            |            |        |            |        |
| <b>Totals:</b> |           |       |  |                     | <b>\$1,768,505.09</b> |  | <b>\$2,633,633.00</b> |  | <b>\$2,634,007.00</b> |            |        |            |        |

CLERK OF THE COURT  
MONTHLY FINANCIAL STATEMENT  
STATE OF NEVADA, COUNTY OF WASHOE  
Month Ending July 31, 2022

Alicia L. Lerud, Clerk of the Court, in compliance with NRS 19.090, and being first duly sworn, and under penalty of perjury, deposes and says that the following is a full and correct statement of all fees, percentages or compensation received in my official capacity during the preceding month:

|                    |                               |    |                     |
|--------------------|-------------------------------|----|---------------------|
| Clerk of the Court | Law Library Fund              | \$ | 5,445.00            |
|                    | Additional Divorce Filing Fee | \$ | 135.00              |
|                    | *County General Fund          | \$ | 96,666.50           |
|                    | eFile Fee (General Fund)      | \$ | 12,900.00           |
|                    | State Civil Fee               | \$ | 16,737.00           |
|                    | Legal Aid Filing Fee          | \$ | 21,259.00           |
|                    | TOTAL                         |    | <u>\$153,142.50</u> |

  
Alicia L. Lerud

District Court Administrator/Clerk of Court

\* Included in County General Fund are the following fees: balance of civil action, certified copies of all miscellaneous.

|                            |  |
|----------------------------|--|
| CASH REGISTER<br>READOUT   |  |
| T.R. Rec.No.<br>( Doc. No) |  |

UNIT ID. CLERK - JUDICIAL  
 Date: August 2, 2022

**FOR AUDIT AND CONTROL PURPOSES PLEASE INDICATE THE REASON FOR THIS COLLECTION.**  
 (Attach any additional document if this would help to clarify the collection.)

**DISTRICT COURT FEES COLLECTED FOR July 2022**

| CR/GF/OP     | ACCOUNT DESCRIPTION                          | ACCOUNTS TO BE CREDITED |             |         | AMOUNT               |                             |
|--------------|--|-------------------------|-------------|---------|----------------------|-----------------------------|
|              |  | ORDER                   | COST CENTER | ACCOUNT |                      |                             |
| OP           | Legal Aid (Washoe Legal Services) (01)       |                         | 990023      | 441007  | 11,035.50            | legalaidd \$ 21,259.00      |
| OP           | Legal Aid (Elderly Indigent) Sr. Center (02) |                         | 250411      | 460720  | 3,818.50             |                             |
| OP           | State Civil (03)                             |                         | 990019      | 441022  | 11,392.00            | state civil \$ 16,737.00    |
| GF           | Law Library (04)                             |                         | 123100      | 460222  | 5,445.00             | law library \$ 5,445.00     |
| GF           | Clerk Fees (05,6,7)                          |                         | 120101      | 460210  | 24,472.00            | general \$ 109,566.50       |
| CR           | DC Technology SB106 (06)                     | 20038                   | 120105      | 460210  | 504.00               |                             |
| OP           | Legal Aid (Washoe Legal Services) (08)       |                         | 990023      | 441078  | 6,405.00             |                             |
| GF           | Additional Divorce Answer Fee (09)           |                         | 120231      | 460220  | 135.00               | add'l div \$ 135.00         |
| GF           | Mediation (10)                               |                         | 120331      | 471205  | 2,340.00             |                             |
| OP           | Neighborhood Justice Center (10J)            |                         | 270710      | 460225  | 2,340.00             |                             |
| GF           | Arbitration (11)                             |                         | 120111      | 471215  | -                    |                             |
| OP           | Displaced Homemakers (12)                    |                         | 990019      | 441021  | 3,150.00             | <b>TOTAL: \$ 153,142.50</b> |
| GF           | Divorce Training (13)                        |                         | 120231      | 460223  | 550.00               |                             |
| GF           | Family Mediation Fee (14)                    |                         | 120331      | 471210  | 150.00               |                             |
| GF           | CD Recording/Record on CD (15,17)            |                         | 120311      | 485300  | 525.00               |                             |
| OP           | Vital Statistics (State of NV) (18)          |                         | 990019      | 441004  | 1,100.00             |                             |
| OP           | State of NV (OAC / Tech) (19)                |                         | 990019      | 441020  | 630.00               |                             |
| OP           | State of NV (OAC / Judges) (20)              |                         | 990019      | 441019  | 315.00               |                             |
| CR           | Court Expansion Fees AB65 (21)               | 20326                   |             | 460211  | 54,892.00            |                             |
| CR           | Court Security Fees AB65 (22)                | 20335                   |             | 460213  | 9,360.00             |                             |
| CR           | Mtn to Modify Div SB388                      | 20408                   |             | 460214  | 770.00               |                             |
| CR           | Opp Mtn to Mod Div SB388                     | 20409                   |             | 460215  | 164.00               |                             |
| GF           | eFile Subscription                           |                         | 120106      | 460212  | 12,900.00            |                             |
| GF           | Attorney ID Badge Fee                        |                         | 120101      | 485320  | -                    |                             |
| GF           | Attorney ID Badge Fee PW                     |                         | 160100      | 485100  | -                    |                             |
| GF           | Law Library Fine/Fee                         |                         | 123100      | 485100  | -                    |                             |
| OP           | Foreclosure Mediation State (34)             |                         | 990019      | 460121  | 150.00               |                             |
| GF           | Foreclosure Mediator (35)                    | 20444                   |             | 460220  | 600.00               |                             |
| GF           | Over/Short (Filing Office)                   |                         | 120231      | 711300  | (0.50)               |                             |
| <b>TOTAL</b> |  |                         |             |         | <b>\$ 153,142.50</b> |                             |

Prepared By: Valerie Moser

ACCEPTED BY: Linda Jacobs  
 Washoe County Interim Treasurer