

NEVADA DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL NOTICE TO CONTRACTORS NO. 3
Contract 3983

Reference is made to Project NHP-0191(104), on US 395 from McCarran to Golden Valley Structure, Washoe County, upon which bids will be received until 2:00 p.m., PDT, on the 22nd day of June 2023, and opened publicly on that date at the above hour.

Prospective bidders are hereby directed to remove and destroy the State and Federal Wages, in the Invitation to Bid pages 18 to 99, and replace them with the attached State and Federal Wages, pages 18 to 100.

Prospective bidders are hereby notified of the following bid item changes:

Quantity Changes:

202 0120	REMOVAL OF PORTION OF BRIDGE DECK	from	5,862	to	52,752
212 0040	AESTHETIC PATTERNING	from	34,208	to	28,485
502 0130	SPECIAL CONCRETE BARRIER RAIL	from	438	to	2,276
502 0281	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE B (OFFSET)	from	11,334	to	10,194
502 0282	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE SB	from	7,272	to	6,574
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)	from	4,039	to	4,033
502 1010	CLASS EA CONCRETE, MODIFIED (MAJOR)	from	4,840	to	4,839
505 0120	REINFORCING STEEL (EPOXY COATED)	from	1,833,605	to	1,833,676

Added Items:

202 1287	GRINDING FOR PAVEMENT MARKINGS
502 2100	TEMPORARY SHORING (SPECIAL)
632 0100	CONTRAST STRIPING

108.02 Notice to Proceed. The third sentence of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

The date set forth in the "Notice to Proceed" shall not be less than 60 days after the "Notice to Proceed" is issued.

108.04. Limitations of Operations. The second paragraph of this Subsection of the Standard Specifications is hereby deleted and the following substituted therefore:

No work will be required on Sundays. If, however, electing to work on such days, those days worked will not be charged as working days. Give notice of intention to work on the aforementioned days at least 48 hours in advance of such work.

No work will be required on State recognized holidays. If, however, electing to work on such days, those days worked will be charged as working days. Give notice of intention to work on the aforementioned days at least 48 hours in advance of such work. State recognized holidays are enumerated in subsection 101.03, for "Holidays."

The fifth paragraph from the bottom of page 19 of the Special Provisions is hereby deleted and the following substituted therefore:

Any reductions of Northbound US 395 to two lanes open to public traffic that extends beyond the hourly limitations set forth in these specifications shall be submitted for review and subject to approval a minimum of 30 days prior to being put in place. The submittal shall specify the begin and end dates and total duration in a schedule format in accordance with section 108.03. The submittal shall also include the necessary traffic control plans in accordance with section 625.03.05. Any modifications to the approved submittals will be subject to the same minimum 30-day submittal process for review and subject to approval. The liquidated damages for the hourly limitations Northbound US 395 stated in these specifications will be in effect for failure to comply with any approved durations.

108.09. Failure to Complete the Work on Time. The second paragraph of this Subsection of the Special Provisions is hereby deleted.

202.01.01 General. This work consists of grinding surfaces to recess pavement markings.

202.03.12 Grinding For Pavement Markings. Recessing shall be constructed in either asphalt or concrete surfaces utilizing wet or dry diamond saw blades in order to prevent damage to the road surface. The grinding depth shall be 80 mil ± 10 mil. Do not cause 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. The bottom of the groove shall have a smooth, flat finished surface. Utilize equipment specifically designed for grooving applications and be equipped with pointer bars or cameras. The equipment shall be capable of grooving the total width and length of the groove in one pass. Use equipment capable of grinding stripes on the left and right sides and of placing two lines simultaneously with either line in a solid or intermittent pattern. Satisfactorily grind to produce a uniform smooth surface over the surface areas designated for grinding.

Residue produced from recess construction shall be removed from the roadbed by use of vacuum equipment. Residue from removal operations shall not be permitted to flow across pavement nor to flow into gutters or other drainage facilities. If wet cut method is used, immediately flush the groove utilizing a high pressure water blaster to avoid build-up and hardening of slurry in the groove. Pavement surface shall dry for a minimum of 24 hours prior to the installation of the specified marking material. See Section 636 for temporary striping requirements.

Position the groove where the edge of the groove is a minimum of 2-inches from the edge of concrete joints or asphalt seams along edge or centerline of the roadway. The width of the marking applied must stay within the groove. If the groove is exposed to traffic and weather conditions overnight, clean the groove with high pressure air prior to application.

Grinding shall match the permanent pavement marking pattern or as detailed in the plans.

Follow all striping requirements as specified in Section 632.

202.04.01 Measurement. Grinding for pavement markings will be measured by the linear foot, regardless of the grinding pattern or width, or the square foot.

Grinding will be measured by the linear foot for all areas where the pavement marking items will be measured by the linear foot or mile.

Grinding for double solid and solid w/broken marking patterns will be considered as a single line when measured for payment. Gaps in grinding for broken or dotted markings will be included in the linear measurement.

202.05.01 Payment. Payment will be made under:

Pay Item	Pay Unit
Grinding For Pavement Markings	Linear Foot

212.03.16 Aesthetic Patterning. Surface application of vertical or horizontal rustication is incidental to wall construction and not considered as cost for aesthetic patterning.

212.04.01 Measurement. Standard rustication aesthetic patterning is inclusive of the wall with no additional payment.

501.02.04 Admixtures. The last sentence of this Subsection of the Special Provisions is hereby deleted.

502.01.01 General. This work consists of temporary shoring.

502.04.01 Measurement. Temporary shoring will be measured by the lump sum.

502.05.01 Payment. Payment will be made under:

Pay Item	Pay Unit
Temporary Shoring (special)	Lump Sum

609.02.01 General. The first and second paragraph of this Subsection of the Special Provisions is hereby deleted and the following substituted therefore:

The stormwater treatment vault shall be on of the following or an approved equal:

Water Quality Treatment Vault	Contech Model Number	Jensen Model Number
A	CDS 3035-6	JDS 72-3642

625.02.01 General. The temporary traffic screen shall conform to Standard Plan Detail Number RB-48. Fabricate the temporary traffic screen from suitable commercial quality materials.

Pre-manufactured traffic screens will also be allowed.

The temporary traffic screen need not be new, provided the traffic screen is in good repair, sound, and suitable for the purpose intended.

Install the same reflectors as approved for use on portable precast concrete barrier rail on the traffic side of the temporary traffic screen at 20 foot maximum spacing.

625.03.01 General. Attach the temporary traffic screen to portable precast concrete barrier rail by either of the alternative methods shown in the plans.

Attach pre-manufactured units as recommended by the manufacturer.

Replace any portable precast concrete barrier rail damaged by improper construction of the temporary traffic screen attachment.

625.03.05. Contractor Designed Traffic Control Plans. The use of temporary traffic screens will be required on all portable precast concrete barrier rail for this project unless otherwise approved or directed.

632.02.01 General. Paint material for contrast striping shall be black epoxy paint striping material and shall be manufactured by the same manufacturer of the other epoxy materials.

632.03.01 General. Contrast striping consists of placing a 2 inch wide black stripe on each side of the pavement striping line shown on the plans.

632.03.04 Application. (a) Epoxy Pavement Striping. Contrast striping shall be a minimum of 2 inches wide on each side of adjacent stripe and glass bead application is not required.

632.04.01 Measurement. Contrast striping will be measured by the mile and consists of two 2-inch wide lines.

632.05.01 Payment. Payment will be made under:

Pay Item	Pay Unit
Contrast Striping	Mile

726.03.05 Fertilizer. This Subsection of the Standard Specifications is hereby deleted and replaced with the following:

Apply liquid humic acid to all seeded areas. The humic acid component shall be a highly concentrated organic acid soil amendment and an effective agent for increased efficiency of nitrogen, phosphate, and potassium uptake. The product shall contain 10-12% humic acid derived from leonardite, 90% inert ingredients, and 2% soluble potash derived from potassium hydroxide: for example, Actagro Humic Acid 10% or JH Biotech Humax Liquid Humic Concentrate.

726.03.18 Soil Amendments. This Subsection of the Special Provisions is hereby deleted and replaced with the following:

Apply to all seeded areas. Soil building amendment shall meet the following minimum specifications:

1. A non-toxic liquid complex of organically derived microbacteria, enzymes, humic acid, organic wetting agents and biostimulants to flocculate compacted soil, improve water penetration and activate soil nutrients containing no less than:

- a. 11.5% Sarsapogenin (organic bacteria)
 - b. 20.0% Spirostant (organic wetting agent)
 - c. 10.0% Sarsaponin (organic surfactant agent)
 - d. 10.0% Humic Acid (organic enzymes)
 - e. 10.0% Paragenin (organic enzymes)
 - f. 0.25% Cytokinins (hormones)
2. The product shall be biodegradable, non-polluting, non-volatile, non-toxic, and leave no undesirable residues in the soil. Chemically derived substitutions are not acceptable.
 3. It must not impair existing vegetative growth.
 4. Non-injurious to seeds, human, or animal life
 5. Effective with either acidic or alkaline soils.

Prospective bidders are hereby directed to remove and destroy plan sheets 2L, 11-11A, 29, ST1, ST11, S1, S6, S9-S10, S15, LD101, LD107-LD108, LS104-LS105, B102, B104D, B116, B147-B151, B202, B401, B439, B441, B445, and B452 and replace them with the attached same numbered sheets dated 05/22/2023. Following is a brief explanation of the changes:

Sheet 2L. Removed drop down.

Sheet 11-11A, 29, ST11, S6. Modified pedestrian ramp location.

Sheet ST1. Added note for contrast striping and recessed striping.

Sheet S1, S9-S10. Modified bid item.

Sheet S15. Modified total quantities.

Sheet LD101. Added Swale detail an notes.

Sheet LD107. Modified Pattern Summary.

Sheet LD108. Added Plan note for standard Rustification.

Sheet LS104. Removed quantities for aesthetic patterning (202 0040)

Sheet LS105. Modified total for aesthetic patterning (202 0040)

Sheet B102. Modified bid items.

Sheet B104D. Added language for Temporary Shoring (Special).

Sheet B116. Updated Table for Design Casing Lengths with type and clarified note 3 for pay item.

Sheet B147-B151. Added note to clarify Bill of Material.

Sheet B202 & B401. Modified bid item.

Sheet B401. Modified headings for the North Bound and South Bound quantity tables.

Sheet B439, B441, B445, B452. Changed #8DE Bars to #5ED Bars.

Sheet B452. Modified Bill of Materials.

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THE END

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2023 PREVAILING WAGE RATES WASHOE COUNTY

DATE OF DETERMINATION: October 1, 2022

**APPLICABLE FOR PUBLIC WORKS PROJECTS OVER \$100,000 BID/AWARDED
OCTOBER 1, 2022 THROUGH SEPTEMBER 30, 2023**

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.

Air Balance Technician	4
Alarm Installer.....	5
Boilermaker	6
Bricklayer.....	7
Carpenter.....	8
Cement Mason	9
Electrician – Communication Technician	10
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Electrician – Neon Sign.....	14
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Fence Erector	18
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Highway Striper	22
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Hod Carrier – Plasterer Tender.....	24
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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.....	71.50
Air Balance Technician-Foreman.....	75.71
Air Balance Technician-General Foreman.....	79.93

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.....33.79

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.....48.71
 Bricklayer Foreman.....49.96

Add Zone pay

Zone	75 miles and Over	\$8.13
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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, Fourth 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.....	54.91
Carpenter Foreman.....	58.27
Carpenter General Foreman.....	62.03

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.....	48.92
Cement Mason - Foreman.....	52.55

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.....	44.79
Communication Technician.....	49.66
Senior Technician	52.91

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 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.....37.06

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.....	69.61
Wireman-Cable Splicer.....	75.41
Wireman Forman.....	75.41
Wireman General Foreman.....	81.21

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.....	117.95
Elevator Constructor-Journeyman Mechanic In Charge.....	128.06

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.....45.78

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 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, Fourth of July, Labor Day, Admission 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.....42.66

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, President’s Day, Memorial Day, Fourth 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.....	50.69
Floor Coverer Foreman.....	54.12

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.....25.25

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 Striper (Union Rate)

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

Highway Striper.....	48.28
Highway Striper Foreman.....	48.78

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, 4th 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.....	46.03
Brick Mason Foreman.....	46.43

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
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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, Fourth 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.....	46.37
Plasterer Tender- Gun Tender.....	47.37
Plasterer Tender-Foreman.....	47.73

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 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, Fourth of July, Labor Day, Admission 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.....	78.74
Ironworker - Foreman.....	83.21
Ironworker -General Foreman.....	88.13

ADD ZONE RATE

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	\$20.00
Zone 2	75 to 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:

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

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 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	40.37
Furniture Mover	41.87
Group 1.....	45.53
Group 1A.....	42.66
Group 2.....	45.63
Group 3.....	45.78
Group 3A.....	48.21
Group 4.....	46.03
Group 4A.....	48.53
Group 5.....	46.33
Group 6	
Nozzlemen, Rodmen.....	45.33
Gunmen, Materialmen.....	46.03
Reboundmen.....	45.68
Gunite Foreman.....	46.73

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 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, Fourth of July, Labor Day, Admission 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.....	72.11
Mechanical Insulator-Foreman.....	76.11
Mechanical Insulator-General Foreman	78.11

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

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.....	71.01
Millwright Welder.....	72.01
Millwright Foreman.....	75.30
Millwright General Foreman.....	80.02

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.....	63.11
Group 1A.....	65.82
Group 2.....	66.35
Group 3.....	66.62
Group 4.....	67.36
Group 5.....	67.66
Group 6.....	67.86
Group 7.....	68.08
Group 8.....	68.67
Group 9.....	68.99
Group 10.....	69.34
Group 10A.....	69.53
Group 11.....	69.77
Group 11A.....	71.41
Group 11B.....	72.22
Foreman.....	68.80
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.....	78.36
Group 1 Truck Crane Oiler.....	72.19
Group 1 Oiler.....	70.23
Group 2.....	76.85
Group 2 Truck Crane Oiler.....	71.94
Group 2 Oiler.....	70.02
Group 3.....	75.61
Group 3 Truck Crane Oiler.....	71.72
Group 3 Oiler.....	69.80
Group 3 Hydraulic.....	71.39
Group 4.....	73.88
Group 5.....	72.78
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.....	77.88
Group 1 Truck Crane Oiler.....	72.37
Group 1 Oiler.....	70.45
Group 2.....	76.29
Group 2 Truck Crane Oiler.....	72.16
Group 2 Oiler.....	70.25
Group 3.....	72.03
Group 3 Truck Crane Oiler.....	74.84
Group 3 Oiler.....	71.94
Group 4.....	73.33
Group 5.....	72.22
Group 6.....	68.94
Group 7.....	70.15
Group 8.....	69.19
Add \$12.5% to base rate for "Special" Shift.....	

ADD ZONE RATE

In addition to: **OPERATING ENGINEER, STEEL FABRICATOR & ERECTOR, and OPERATING ENGINEER PILED RIVER**, 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	\$5.00
Zone 3	150 to 300 miles	\$6.00
Zone 4	300 miles over	\$7.00

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.....	47.34
Spray Painter/Paperhanger.....	49.00
Sandblaster.....	49.05
Structural Steel & Steeplejack.....	49.05
Swing Stage.....	49.34
Special Coating Application-Brush.....	49.39
Special Coating Application-Spray.....	49.39
Special Coating Application-Spray Steel.....	49.39
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.....	55.41
Piledriver-Welder.....	56.41
Piledriver-Foreman.....	58.87
Piledriver-General Foreman.....	62.68
Tender.....	58.87
Stand-By Diver.....	59.87
Diver-Diving (Wet Pay).....	98.96

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, 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

All work performed on the following holidays shall be paid for at double the regular straight time rate: New Year's Day, Memorial Day, Fourth of July, Labor Day, Admissions Day, Thanksgiving Day and the Friday after Thanksgiving and also Christmas Day.

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

No work shall be permitted on the Fourth of July or Labor Day, regardless of compensation or donation, except in case of emergency or to protect life and property. Permission to work shall be granted by the representative of the Union or its officer.

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 toweled 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.....	66.95
Plumber/Pipefitter-Foreman.....	71.48
Plumber/Pipefitter-General Foreman.....	76.01

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.....33.64

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.....	71.50
Sheet Metal Worker -Foreman.....	75.71
Sheet Metal Worker -General Foreman.....	79.93

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.....27.08

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).....44.17
Soils and Materials Tester.....44.17

Craft: SURVEYOR (Non-Union Rate)

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

Surveyor.....38.81

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.....	53.86
Taper-Foreman.....	57.75

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.....	37.82
Tile Setter/Terrazzo Worker/Marble Mason- Finisher Foreman.....	39.07
Tile Setter/Terrazzo Worker/Marble Mason Finisher- General Foremen.....	40.82

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.....	47.87
Tile Setter Foreman.....	49.12
Tile Setter General Foreman.....	50.87
Terrazzo/Marble Mason-Journeyman	49.37
Terrazzo/Marble Mason-Foreman	50.62
Terrazzo/Marble Mason-General Foreman.....	52.37

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.....45.53

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).....	28.72
4 yds. & under 8 yds. (water level).....	28.72
8 yds. & under 18 yds. (water level).....	28.72
18 yds. & under 25 yds. (water level)	28.72
25 yds. & under 60 yds. (water level).....	28.72
60 yds. & under 75 yds. (water level)).....	28.72
75 yds. & under 100 yds. (water level)).....	28.72
100 yds. & under 150 yds. (water level)).....	28.72
150 yds. & under 250 yds. (water level)).....	28.72
250 yds. & under 350 yds. (water level)).....	28.72
350 yds. & over (water level).....	28.72

Transit Mix

Under 8 yds.....	28.72
Under 8 yds & including 12 yds.....	28.72
Over 12 yds.....	28.72

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.....	28.72
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Water & Jetting Trucks

Up to 2,500 gallons.....	28.72
Up to 2,500 gallons & over.....	28.72
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).....	28.72
Heavy Duty Transport(Gooseneck low bed).....	28.72
Tiltbed or Flatbed Pull Trailers.. ..	28.72
Bootman, Comb. Bootman & Road Oiler.....	28.72
Flat Rack (2 or 3 axle unit).....	28.72

Bus & Manhaul Drivers

Up to 18,000 lbs. (single unit).....	28.72
18,000 lbs. and over	28.72
Warehousemen Spotter	28.72

Winch Truck & "A" Frame Drivers

Up to 18,000 lbs.	28.72
18,000 lbs. and over.....	28.72
Warehousemen Spotter.....	28.72
Warehouse Clerk.....	28.72
Tire Repairmen.....	28.72
Truck Repairmen.....	28.72
Pick Up Truck & Pilot Cars (Jobsite)	28.72
Pick Up Truck & Pilot Cars (Over the road)	28.72
Truck Oil Greaser.....	28.72
Fuel Truck Driver.....	28.72
Fuel Man & Fuel Island Man.....	28.72
Oil Tanker.....	28.72

Oil Tanker with Pup.....	28.72
Foreman.....	28.72

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.....31.29

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

- Oiler (Construction)
- Partsman

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
- Rodman/Chainman
- 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
- Instrument Man
- 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
- Soil Tester (Certified)
- Soils and Materials Tester
- 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

- Articulated on-Site Dump Trucks
- 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
- Stiff Frame Off Road Haul Trucks
- Grooving and Grinding Machine (highways)
- Ken Seal Operator
- Marination Plant
- Loader (up to and including two and one-half (2 1/2) cu. yds)
- Mechanical Finishers or Spreader Machine (asphalt, Barber-Greene or similar)
- Shuttle Buggy
- Mechanical Trench Shield
- 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)
- Water Pull
- 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
- Track Loader
- 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
- Vacuum Truck(excludes trailer mounted vaccums)

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
- Chief of Party
- 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 Repairman
- 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
- Finish Blade
- 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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2022-2023 Prevailing Wage

Amendment 2

- **AMENDMENT 2 – CLERICAL**
- **Classifications:**
 - Lubrication and Service Engineer
 - Operating Engineers
 - Operating Engineers – Steel Fabricator & Erector
 - Operating Engineers – Piledriver
- **County – Washoe County Region and Northern Nevada Rural Region**
- **Effective – October 1, 2022**

The following represents the amended wage rates.

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)68.43

Add Operating Engineers Zone Pay

Add Premium Pay

2022-2023 Amendment 2 Operating Engineers

2022-2023 Prevailing Wage

Amendment 2

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.....	63.41
Group 1A.....	66.17
Group 2.....	66.70
Group 3.....	66.97
Group 4.....	67.71
Group 5.....	68.01
Group 6.....	68.18
Group 7.....	68.43
Group 8.....	69.02
Group 9.....	69.34
Group 10.....	69.69
Group 10A.....	69.88
Group 11.....	70.12
Group 11A.....	71.76
Group 11B.....	72.57
Foreman.....	71.76

Add \$12.5% to base rate for "Special" Shift

Add Operating Engineers Zone Pay

Add Premium Pay

2022-2023 Prevailing Wage

Amendment 2

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.....	78.17
Group 1 Truck Crane Oiler.....	72.54
Group 1 Oiler.....	70.58
Group 2.....	77.20
Group 2 Truck Crane Oiler.....	72.29
Group 2 Oiler.....	70.37
Group 3.....	75.96
Group 3 Truck Crane Oiler.....	72.07
Group 3 Oiler	70.15
Group 3 Hydraulic.....	71.74
Group 4.....	74.23
Group 5.....	73.13
Add \$12.5% to base rate for "Special" Shift.....	

2022-2023 Prevailing Wage

Amendment 2

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.....	78.18
Group 1 Truck Crane Oiler.....	72.72
Group 1 Oiler.....	70.80
Group 2.....	76.64
Goup 2 Truck Crane Oiler.....	72.51
Group 2 Oiler.....	70.60
Group 3.....	75.19
Group 3 Truck Crane Oiler.....	72.29
Group 3 Oiler.....	70.37
Group 4.....	73.68
Group 5.....	72.57
Group 6.....	69.29
Group 7.....	70.50
Group 8.....	69.54
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	\$5.00
Zone 3	150 to 300 miles	\$6.00
Zone 4	300 miles over	\$7.00

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.

STEVE SISOLAK
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TERRY REYNOLDS
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BRETT HARRIS
Labor Commissioner

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2022-2023 Prevailing Wage

Amendment 2A

- **AMENDMENT 2A – CLERICAL**
- **Classification – Operating Engineer – Steel Fabricator & Erector Group 1**
- **County – Washoe County Region and Northern Nevada Rural Region**
- **Effective – October 1, 2022**

The following represents the amended wage rates.

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

Group 1.....78.71

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2022-2023 Prevailing Wage

Amendment 3

- **AMENDMENT 3**
- **Classifications:**

Laborer Group 3A Wage Rate

Zone Rates for Washoe County and Northern Nevada Rural Regions

- **County – Washoe County Region and Northern Nevada Rural Region**
- **Effective – October 10, 2022**

The following represents the amended wage rate.

Craft: LABORER (Union Rate)

Group 3A.....49.21

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	\$5.00
Zone 3	150 to 300 miles	\$6.00
Zone 4	300 miles or over	\$7.00

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2022-2023 Prevailing Wage

Amendment 3A

- **AMENDMENT 3A**
- **Classifications –**
 - Fence Erector Group 3A Zone Rate**
 - Flag Person Group 3A Zone Rate**
 - Highway Striper Group 3A Zone Rate**
 - Traffic Barrier Erector Group 3A Zone Rate**
- **County – Washoe County Region and Northern Nevada Rural Region**
- **Effective – October 10, 2022**

ADD ZONE RATE

In addition to FENCE ERECTOR, FLAG PERSON, HIGHWAY STRIPER, TRAFFIC BARRIER ERECTOR rates, add the applicable amounts per hour, calculated based on 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	\$5.00
Zone 3	150 to 300 miles	\$6.00
Zone 4	300 miles or over	\$7.00

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2022-2023 Prevailing Wage

Amendment 5

- **AMENDMENT 5**
- **Classifications – Plasterer**
- **County – Washoe County Region and Northern Nevada Rural Region**
- **Effective – December 8, 2022**

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

Plasterer-Journeyman.....	50.82
Plasterer-Foreman.....	54.32

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

All work performed on the following holidays shall be paid for at double the regular straight time rate: New Year's Day, Memorial Day, Fourth of July, Labor Day, Admissions Day, Thanksgiving Day and the Friday after Thanksgiving and also Christmas Day. If any of the above holidays fall on Sunday, the Monday following shall be considered a holiday.

No work shall be permitted on the Fourth of July or Labor Day, regardless of compensation or donation, except in case of emergency or to protect life and property. Permission to work shall be granted by the representative of the Union or its officer.

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 troweled 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.



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2022-2023 Prevailing Wage

Amendment 8

- **AMENDMENT 8**
- **Classifications – Ironworkers Wage**
- **County – All Regions**
- **Effective – January 1, 2023**

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

Ironworker-Journeyman.....	81.01
Ironworker -Foreman.....	85.63
Ironworker-General Foreman.....	90.71

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:

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.

JOE LOMBARDO
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2022-2023 Prevailing Wage

Amendment 9

- **AMENDMENT 9**
- **Classifications – Taper Recognized Holidays**
- **County – Washoe County and Northern Nevada Regions**
- **Effective – June 1, 2023**

The following represents the amended wage rates.

Craft: Taper (Union Rate)

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

RECOGNIZED HOLIDAYS

New Year's Day, Memorial Day, July Fourth, Admission Day (last Friday of October in each year), Thanksgiving and the day after Thanksgiving. No work will be permitted on Labor Day or Christmas Day under any conditions. When a holiday falls on a Sunday, the Monday following shall be observed as the holiday.

"General Decision Number: NV20230013 05/12/2023

Superseded General Decision Number: NV20220013

State: Nevada

Construction Type: Highway

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Counties: Storey and Washoe Counties in Nevada.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	01/27/2023
2	03/03/2023
3	04/21/2023
4	05/12/2023

CARP0971-001 07/01/2022

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 34.13	19.53

ELEC0401-001 01/01/2022

	Rates	Fringes
ELECTRICIAN.....	\$ 42.50	20.95

ENGI0003-033 07/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Backhoe Loader Combo.....	\$ 37.83	24.80
Backhoe/Excavator/Trackhoe..	\$ 38.37	24.80
Bobcat/Skid Steer/Skid		
Loader.....	\$ 35.46	24.80
Grade Setter.....	\$ 38.18	24.80
Grader/Blade.....	\$ 38.37	24.80
Loader.....	\$ 37.51	24.80
Paver (Asphalt, Aggregate		
and Concrete).....	\$ 36.92	24.80
Roller (Asphalt).....	\$ 36.92	24.80
Roller (Except Asphalt).....	\$ 36.67	24.80
Screed.....	\$ 36.92	24.80

ENGI0012-013 10/01/2022

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
(1) Forklift.....	\$ 49.89	30.85
(6) Drill.....	\$ 50.77	30.85
(8 A) Grade Checker;		
Mechanic; Scraper;.....	\$ 50.67	30.85
(8 B) Oiler.....	\$ 50.13	30.85

IRON0118-002 01/01/2023

	Rates	Fringes
IRONWORKER, REINFORCING.....	\$ 46.20	21.26

LABO0169-008 10/01/2022

	Rates	Fringes
LABORER		

06/08/2023

Contract# 3983

96 of 100

(1) Common or General; Cones/ Barricades/ Barrels- Setter/Mover/Sweeper.....\$ 30.05	15.02
(1A) Flagger.....\$ 27.18	15.02
(3) Asphalt Shoveler, Spreader and Distributor; Concrete Saw; Mason Tender- Cement/Concrete.....\$ 30.30	15.02
(4) Asphalt Raker; Pipelayer.....\$ 30.55	15.02
(5A) Highway/Parking Lot Striping.....\$ 32.80	15.02

LAB00872-001 07/01/2022

Rates Fringes

LABORER (3) Jackhammer.....\$ 32.79	30.36
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PAIN0159-008 07/01/2022

Rates Fringes

PAINTER: Brush and Roller Only...\$ 45.39	21.28
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PLAS0797-001 07/01/2022

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 45.87	17.61
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TEAM0631-003 07/01/2021

Rates Fringes

TRUCK DRIVER: Dump Truck (All Types).....\$ 39.99	23.58
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* UAVG-NV-0001 01/01/2023

Rates Fringes

OPERATOR: Crane.....\$ 61.30	28.65
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SUNV2017-012 10/01/2018

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 34.75	29.20
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WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their
06/08/2023 Contract# 3983

own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage

payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210



4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	2L

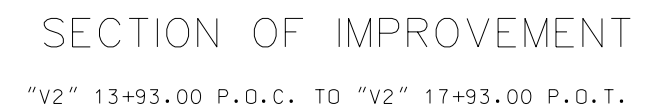
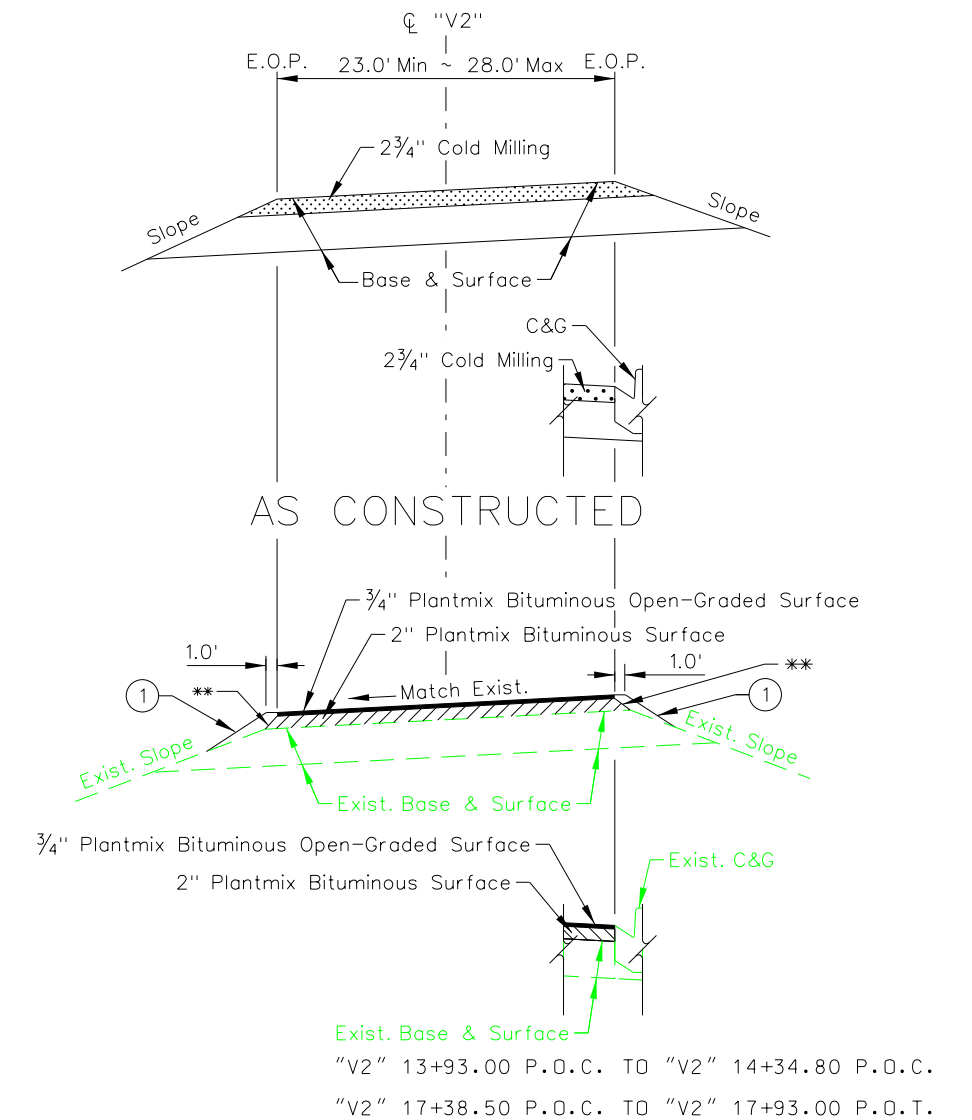
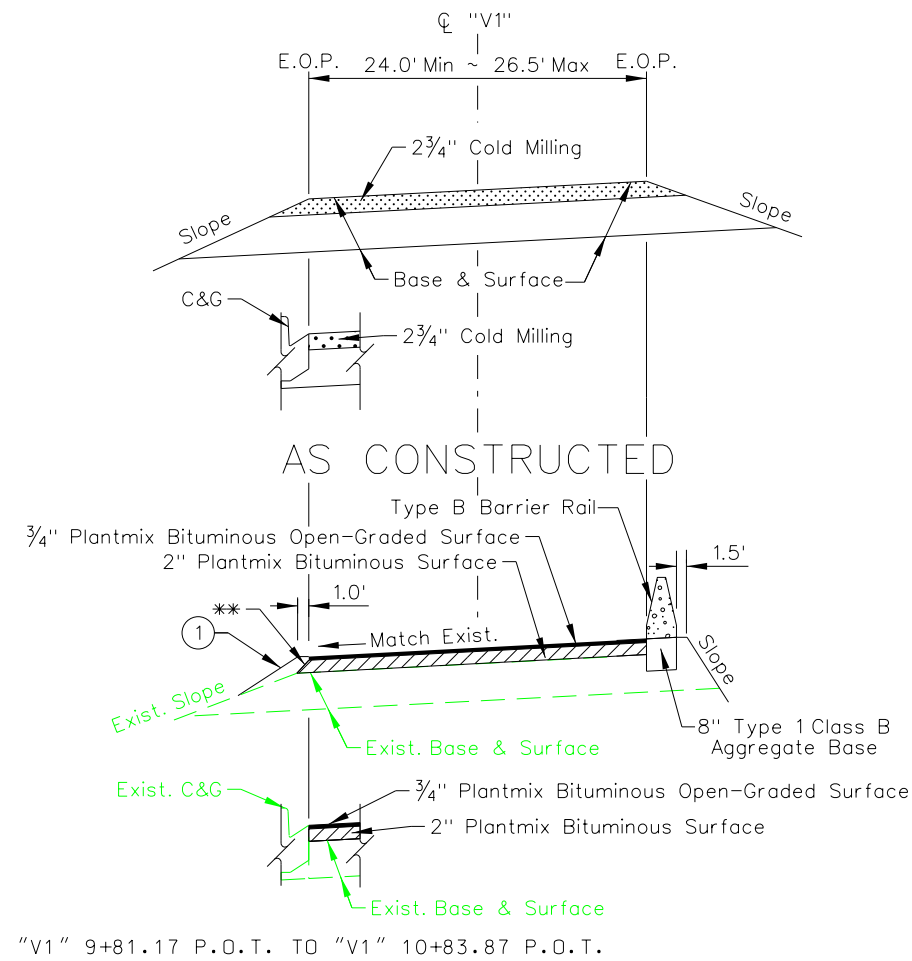
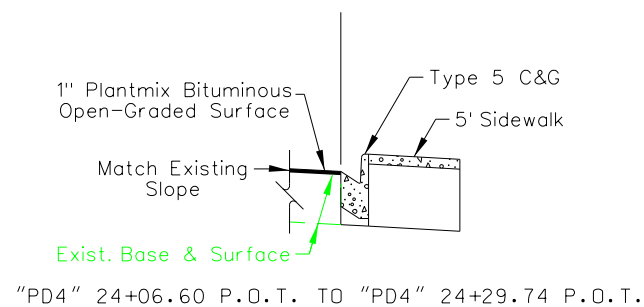
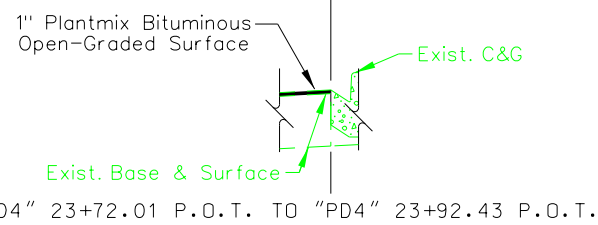
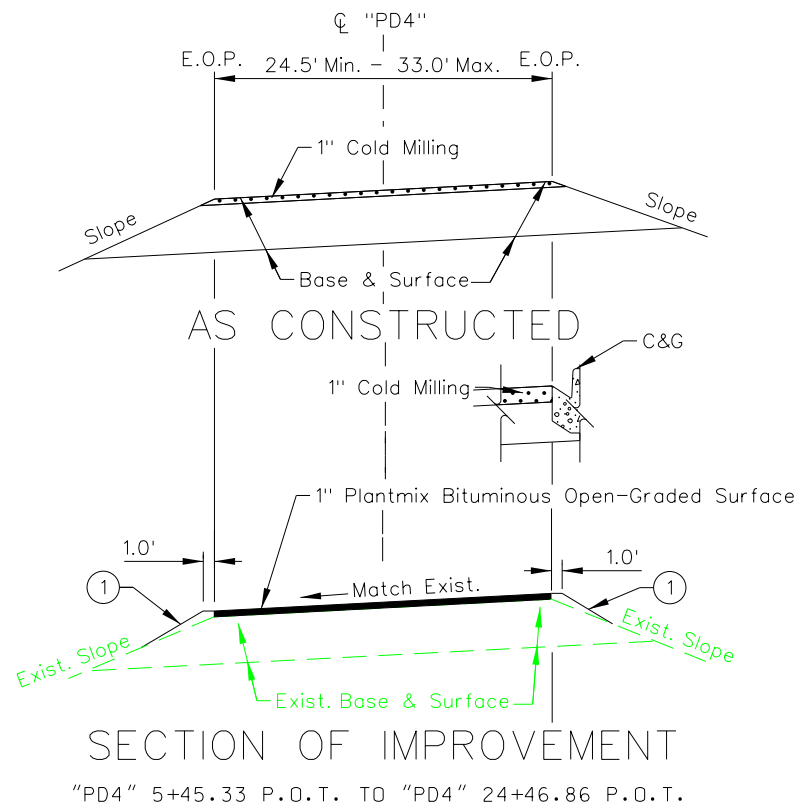
- LEGEND -

-  - LIMITS OF REMOVAL (COLD MILLING)
-  - LIMITS OF ROADWAY EXCAVATION
- ** - SAFETY EDGE
- ① - SHOULDERING MATERIAL (AS DIRECTED BY THE ENGINEER)

NOTE:


1. SEE SUMMARY AND PLAN SHEETS FOR STATIONS AND WIDTHS

REV. 1 5/22/23 TWK
ERRONEOUS "V1" DROPDOWN REMOVED.

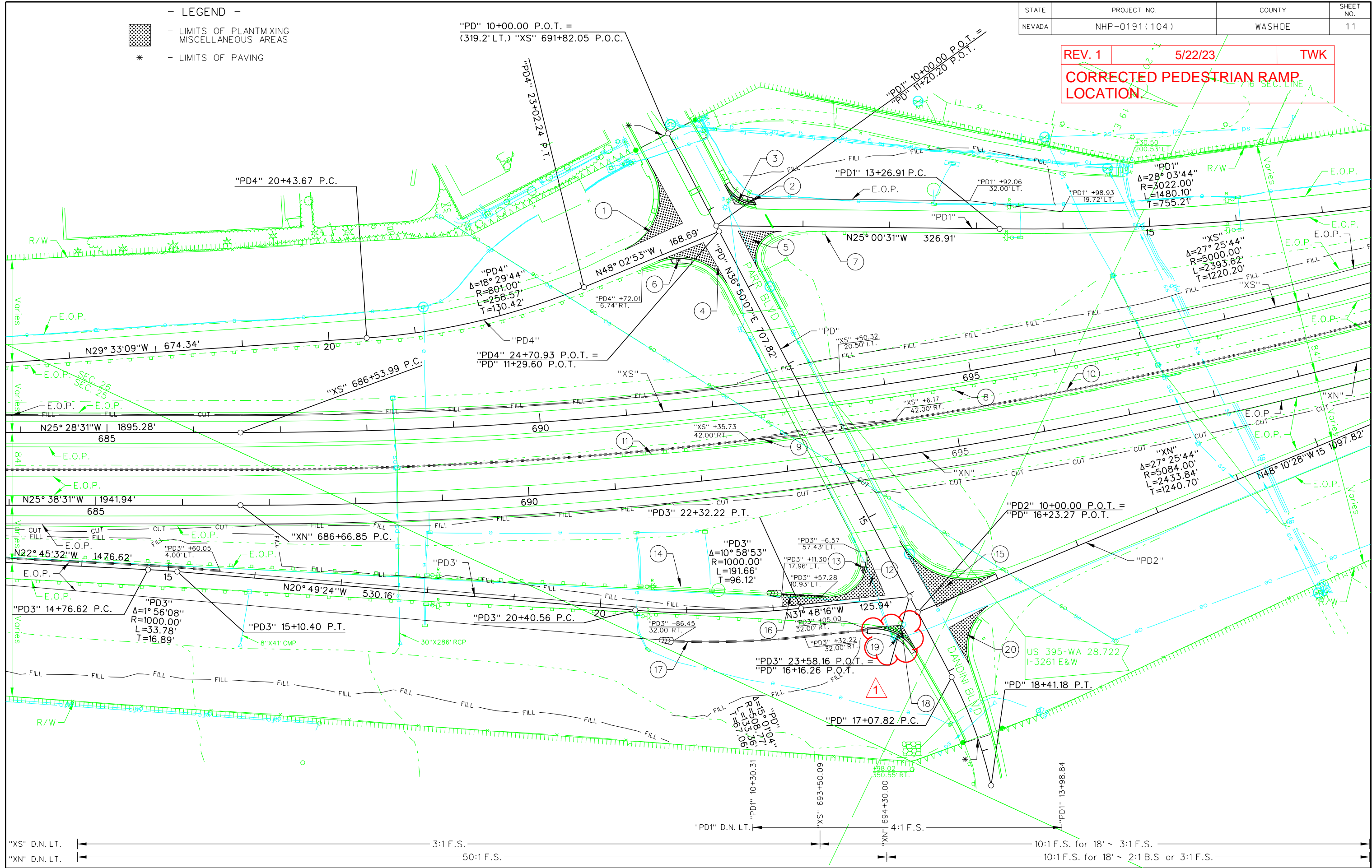


REV. 1 5/22/23 TWK
CORRECTED PEDESTRIAN RAMP LOCATION

- LEGEND -

-  - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS
- * - LIMITS OF PAVING

"PD" 10+00.00 P.O.T. = (319.2' LT.) "XS" 691+82.05 P.O.C.

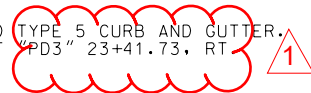


"XS" D.N. LT. 3:1 F.S.
 "XN" D.N. LT. 50:1 F.S.
 "PD1" D.N. LT. 10:1 F.S. for 18' ~ 3:1 F.S.
 "XN" D.N. LT. 10:1 F.S. for 18' ~ 2:1 B.S. or 3:1 F.S.

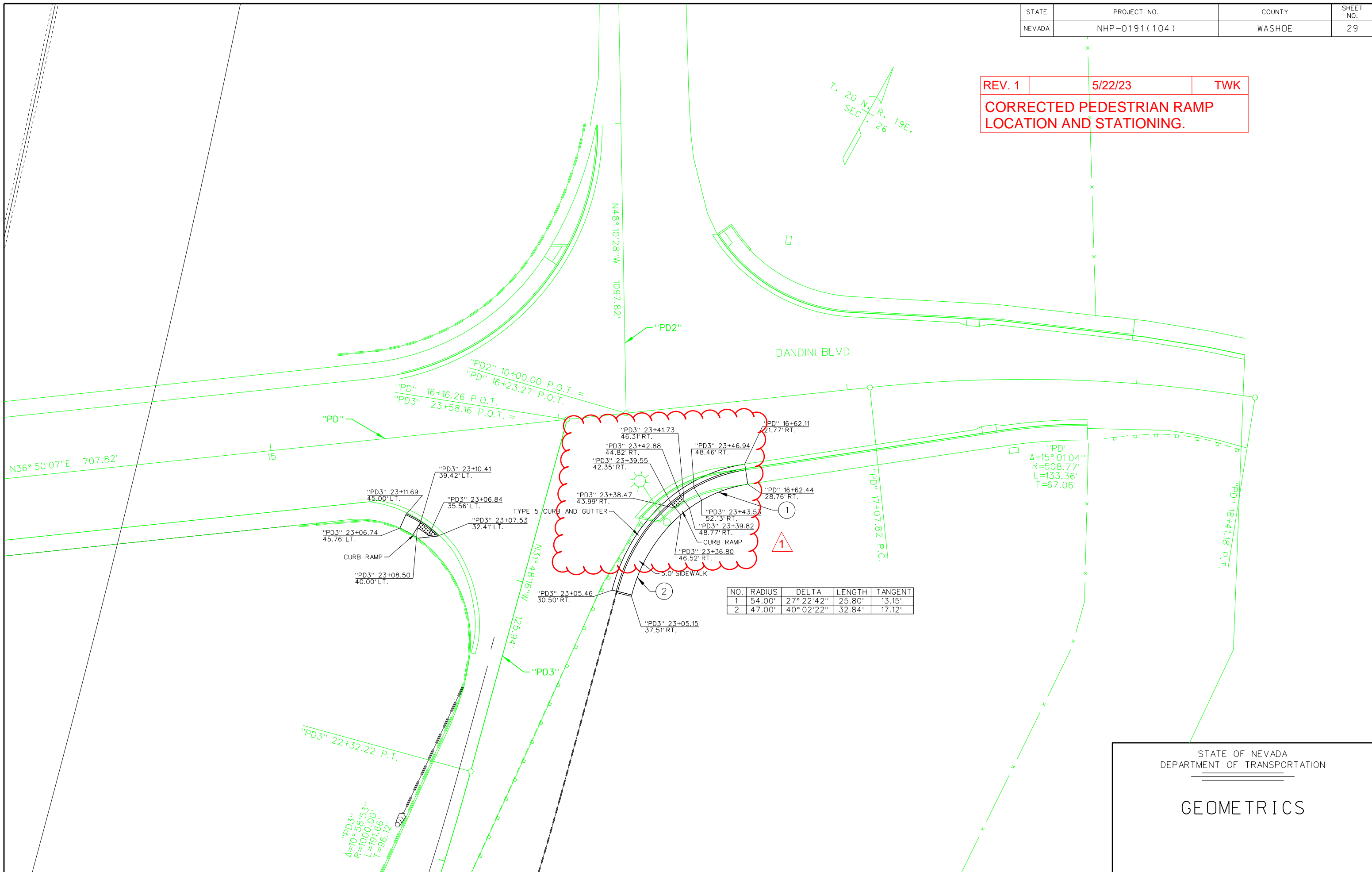
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	11A

REV. 1	5/22/23	TWK
CORRECTED STATIONING FOR PEDESTRIAN RAMP.		

- ① "PD4" 23+62.60 PAVE SPANDREL, LT.
"PD4" 24+35.57
- ② "PD1" 10+09.04 CONSTRUCT SIDEWALK AND TYPE 5 CURB AND GUTTER.
"PD1" 10+45.80 CONSTRUCT CURB RAMP AT "PD1" 10+35.41, LT.
- ③ "PD1" 10+21.00 PAVE SPANDREL, LT.
"PD1" 10+45.80
- ④ "PD4" 23+92.44 PAVE SPANDREL, RT.
"PD4" 24+48.88
- ⑤ "PD1" 10+25.30 PAVE SPANDREL, RT.
"PD1" 10+73.89
- ⑥ "PD4" 24+06.60 CONSTRUCT CURB RAMP AT "PD4" 24+16.42, RT.
"PD4" 24+29.74 AND TYPE 5 CURB AND GUTTER.
- ⑦ "PD1" 11+06.27 REMOVE AND RESET GUARDRAIL END TREATMENT, RT.
"PD1" 11+75.77
- ⑧ "XS" 692+35.88 REMOVE GUARDRAIL AND END TREATMENT, RT.
"XS" 697+92.10
- ⑨ "XS" 692+35.73 CONSTRUCT CONCRETE BARRIER RAIL TYPE SB, RT.
"XS" 694+06.17 (SEE SHEET SD4 AND SD5 FOR DETAIL).
- ⑩ "XS" 694+06.17 CONSTRUCT CONCRETE BARRIER RAIL TYPE B OFFSET
"XS" 708+25.65 WITH TRANSITION, RT.
- ⑪ "XS" 691+71.04 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
"XS" 732+10.99 WITH IMPACT ATTENUATOR AND END TREATMENT, RT.
- ⑫ "PD3" 22+10.74 PAVE SPANDREL, LT.
"PD3" 23+30.28
- ⑬ "PD3" 23+07.08 CONSTRUCT CURB RAMP, LT.
"PD3" 23+12.19
- ⑭ "PD3" 20+39.89 REMOVE CONCRETE BARRIER RAIL, LT.
"PD3" 22+57.28
- ⑮ "PD2" 10+22.72 PAVE SPANDREL, LT.
"PD2" 10+99.64
- ⑯ "PD3" 22+11.30 CONSTRUCT CONCRETE BARRIER RAIL
"PD3" 22+57.28 TYPE B WITH IMPACT ATTENUATOR, LT.
- ⑰ "PD3" 20+86.45 CONSTRUCT CONCRETE BARRIER RAIL
"PD3" 23+05.00 TYPE B WITH IMPACT ATTENUATOR, RT.
- ⑱ "PD3" 23+11.01 PAVE SPANDREL, RT.
"PD3" 23+45.66
- ⑲ "PD3" 23+05.00 CONSTRUCT SIDEWALK AND TYPE 5 CURB AND GUTTER.
"PD3" 23+58.16 CONSTRUCT CURB RAMP AT "PD3" 23+41.73, RT.
- ⑳ "PD2" 10+26.16 PAVE SPANDREL, RT.
"PD2" 10+77.40



REV. 1 5/22/23 TWK
**CORRECTED PEDESTRIAN RAMP
LOCATION AND STATIONING.**



NO.	RADIUS	DELTA	LENGTH	TANGENT
1	54.00'	27° 22' 42"	25.80'	13.15'
2	47.00'	40° 02' 22"	32.84'	17.12'

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

GEOMETRICS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST1

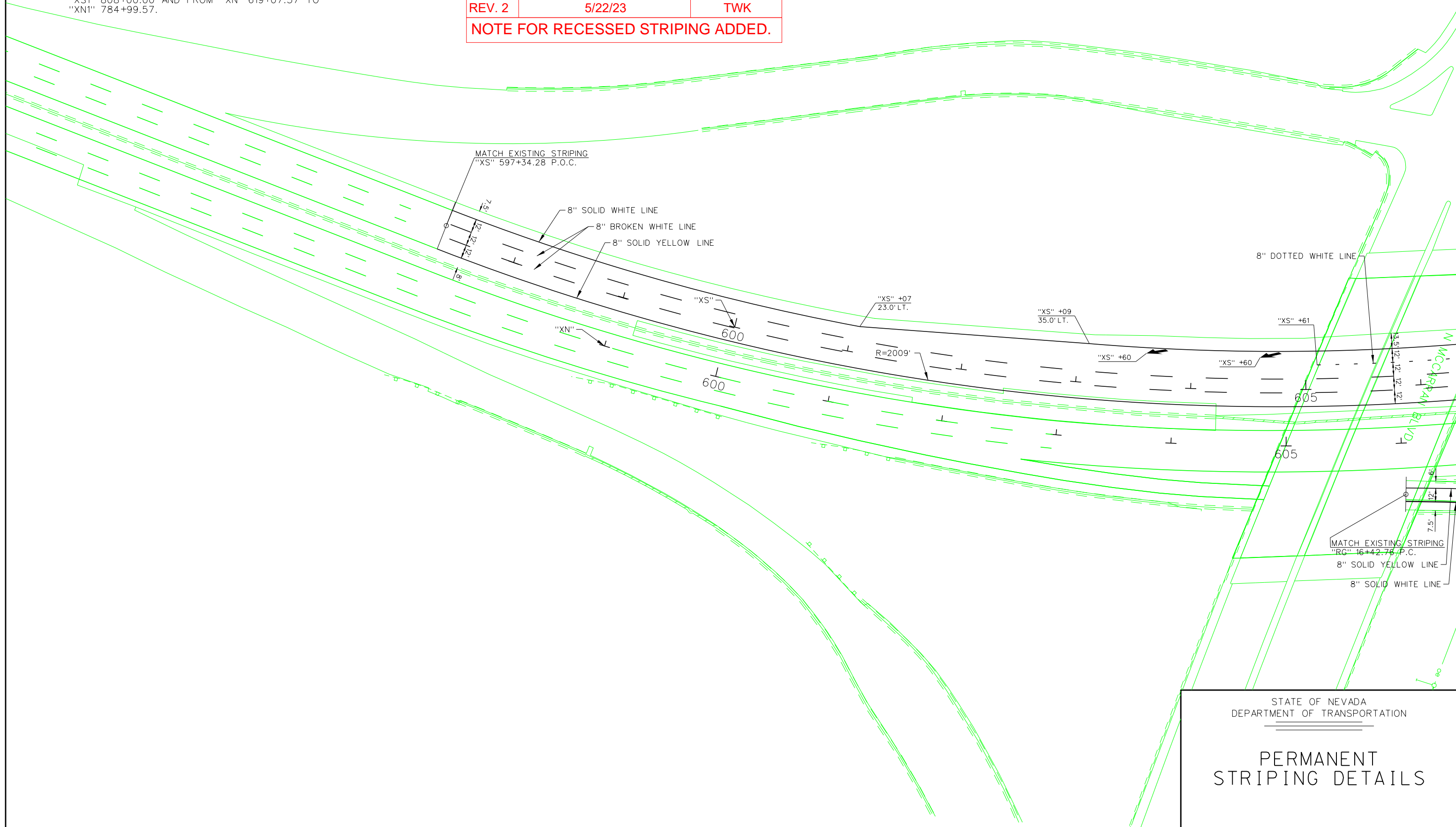
NOTE - MERGE ARROWS SHALL BE THERMOPLASTIC.

NOTE - CONTRAST STRIPING TO BE USED ON ALL STRIPING PLACED ON PCCP.

NOTE - RECESSED STRIPING TO BE USED ON ALL STRIPING PLACED ON PCCP FROM STATIONS "XS" 597+34.28 TO "XS1" 808+00.00 AND FROM "XN" 619+07.37 TO "XN1" 784+99.57.



REV. 1	5/22/23	TWK
NOTE FOR CONTRAST STRIPING ADDED.		
REV. 2	5/22/23	TWK
NOTE FOR RECESSED STRIPING ADDED.		



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

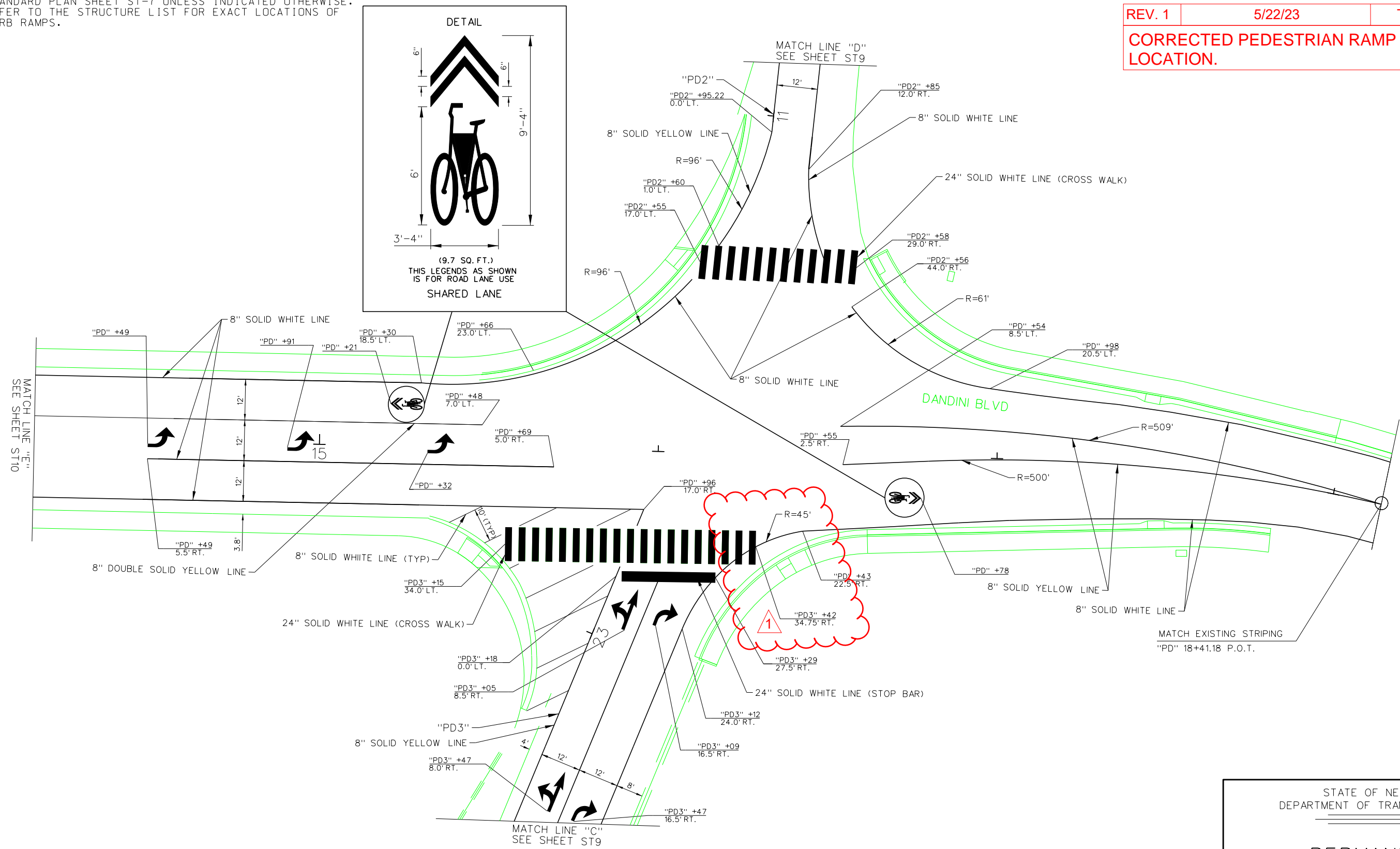
PERMANENT
STRIPING DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST11

NOTE - ARROWS, CROSSWALKS, LEGENDS, STOP BARS, AND YIELD BARS SHALL BE THERMOPLASTIC.

NOTE - THE LOCATIONS OF CROSSWALKS AND STOP BARS ARE CONTROLLED BY THE ASSOCIATED CURB RAMP PER STANDARD PLAN SHEET ST-7 UNLESS INDICATED OTHERWISE. REFER TO THE STRUCTURE LIST FOR EXACT LOCATIONS OF CURB RAMP.

REV. 1 5/22/23 TWK
CORRECTED PEDESTRIAN RAMP LOCATION.

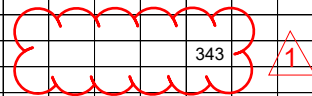


STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 PERMANENT
 STRIPING DETAILS

STRUCTURE LIST

REV. 1 5/22/23 TWK
CORRECTED BID ITEM FROM 502
0281 TO 502 0130 FOR SHEET 6,
NOTE 7.

ITEM NO.	DESCRIPTION	STATION TO STATION
641 0100	IMPACT ATTENUATOR	
623 3018	AUTOMATED VEHICLE CLASSIFICATION SYSTEM (8-LANE CONFIGURATION)	
623 1820	3-INCH CONDUIT	
623 1060	SPECIAL M-1 CABINET	
623 0835	LOOP DETECTOR (PRE-FORMED)	
623 0232	NO. 5 PULL BOX, MODIFIED	
618 0540	GALVANIZED GUARDRAIL	
618 0250	REMOVE AND RESET GUARDRAIL	
616 0300	16-FOOT METAL GATE (SPECIAL)	
613 1430	CLASS AA CONCRETE RAMP (4-INCH)	
613 1140	CLASS AA CONCRETE SIDEWALK (4-INCH)	
613 0830	CLASS AA CONCRETE CURB AND GUTTER (TYPE 5)	
613 0130	DETECTABLE WARNINGS	
609 0570	ADJUSTING COVERS (SPECIAL)	
609 0220	ADJUST MANHOLE	
502 0282	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE SB	
502 0281	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE B (OFFSET)	
502 0280	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE B	
502 0275	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE A	
502 0130	SPECIAL CONCRETE BARRIER RAIL	
402 0100	PLANTMIXING MISCELLANEOUS AREAS	
302 0140	TYPE 1 CLASS B AGGREGATE BASE	
202 1280	REMOVAL OF MEDIAN ISLAND	
202 1255	REMOVAL OF TEMPORARY PORTABLE PRECAST CONCRETE BARRIER RAIL	
202 1110	REMOVE IMPACT ATTENUATOR	
202 0935	REMOVAL OF COMPOSITE SURFACE	
202 0925	REMOVAL OF PULL BOX	
202 0585	REMOVAL OF FENCE	
202 0580	RESET FENCE	
202 0565	REMOVAL OF RETAINING WALL	
202 0475	REMOVAL OF GUARDRAIL	
202 0465	REMOVE GUARDRAIL END TREATMENT	
202 0460	RESET GUARDRAIL END TREATMENT	
202 0400	REMOVAL OF CONCRETE BARRIER RAIL	
	NOTE: ALL LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER	
	SHEET 5	
1	PROTECT HYDRAULIC FEATURE IN PLACE, LT.	"RG" 5+90.43
2	ADJUST MANHOLE, LT.	"RG" 6+52.84
3	ADJUST MANHOLE, LT.	"RG" 8+36.12
4	ADJUST MANHOLE, LT.	"RG" 11+96.46
5	ADJUST MANHOLE, LT.	"RG" 12+85.07
6	INSTALL SPEED DETECTOR LOOPS AND PULL BOX IN SHOULDER. SITE #0311028 CALL BRIAN KRAMER, THE TRAFFIC OPERATIONS FIELD OPERATIONS SUPERVISOR FOR THE TRAFFIC INFORMATION DIVISION AT (775) 888-7444. FIVE WORKING DAYS/120 HOURS PRIOR TO SETTING PREFORMED LOOPS FOR EXACT PLACEMENT.	"RG" 15+93.03
7	PAVE MISCELLANEOUS AREA, LT.	"XS" 601+18.56 "XS" 603+13.79
	SHEET 6	
1	PAVE SPANDREL, LT.	"RE" 10+58.70
2	PAVE SPANDREL, RT.	"RE" 10+70.88
3	PAVE SPANDREL, LT.	"RD" 10+74.06
4	PAVE SPANDREL, RT.	"RD" 10+84.63
5	REMOVE RETAINING WALL AND CONSTRUCT MODIFIED OFFSET BARRIER RAIL, LT. (SEE SHEET SD9 FOR DETAIL).	"XN" 619+28.70 "XN" 620+60.23
6	REMOVE CONCRETE BARRIER RAIL, LT.	"XN" 620+60.23 "XN" 643+66.81
7	CONSTRUCT CONCRETE MODIFIED OFFSET BARRIER RAIL, LT. (SEE SHEET SD7 FOR DETAIL).	"XN" 620+60.23 "XN" 624+03.72
8	CONSTRUCT CONCRETE BARRIER RAIL TYPE B WITH IMPACT ATTENUATOR, LT.	"XS" 618+69.69 "XS" 627+78.31



STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	S6

STRUCTURE LIST

REV. 1 5/22/23 TWK
CORRECTED STATIONING FOR PEDESTRIAN RAMP.

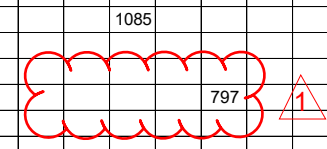
NOTE NO.	DESCRIPTION	STATION TO STATION
	SHEET 11 CONT.	
		SHEET 12
15	PAVE SPANDREL, LT.	"PD2" 10+22.72 "PD2" 10+99.64
16	CONSTRUCT CONCRETE BARRIER RAIL TYPE B WITH IMPACT ATTENUATOR, LT.	"PD3" 22+11.30 "PD3" 22+57.28
17	CONSTRUCT CONCRETE BARRIER RAIL TYPE B WITH IMPACT ATTENUATOR, RT.	"PD3" 20+86.45 "PD3" 23+05.00
18	PAVE SPANDREL, RT.	"PD3" 23+11.01 "PD3" 23+45.66
19	CONSTRUCT SIDEWALK AND TYPE 6 CURB AND GUTTER. CONSTRUCT CURB RAMP AT "PD3" 23+41.73, RT.	"PD3" 23+05.00 "PD3" 23+58.16
20	PAVE SPANDREL, RT.	"PD2" 10+26.16 "PD2" 10+77.40
1	INSTALL SPEED DETECTOR LOOPS AND PULL BOX IN SHOULDER. SITE #0310360 CALL BRIAN KRAMER, THE TRAFFIC OPERATIONS FIELD OPERATIONS SUPERVISOR FOR THE TRAFFIC INFORMATION DIVISION AT (775) 888-7444. FIVE WORKING DAYS/120 HOURS PRIOR TO SETTING PREFORMED LOOPS FOR EXACT PLACEMENT.	"PD2" 18+92.49
2	INSTALL SPEED DETECTOR LOOPS AND PULL BOX IN SHOULDER. SITE #0310361 CALL BRIAN KRAMER, THE TRAFFIC OPERATIONS FIELD OPERATIONS SUPERVISOR FOR THE TRAFFIC INFORMATION DIVISION AT (775) 888-7444. FIVE WORKING DAYS/120 HOURS PRIOR TO SETTING PREFORMED LOOPS FOR EXACT PLACEMENT.	"PD1" 20+12.98
3	REMOVE CONCRETE ISLAND GORE AND PAVE GORE, RT.	"XN" 703+90.70 "XN" 704+89.93
4	REMOVE CONCRETE ISLAND GORE AND PAVE GORE, LT.	"XS" 704+51.93 "XS" 705+02.26
5	CONSTRUCT BARRIER RAIL TYPE SB ON FRONT OF WALL, RT.	"XS" 708+25.65 "XS" 731+17.80

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	S9

STRUCTURE LIST

REV. 1 5/22/23 TWK
CORRECTED BID ITEM FROM 502 0281 TO 502 0130 FOR SHEET 16, NOTE 16.

ITEM NO.	DESCRIPTION	STATION TO STATION
641 0100	IMPACT ATTENUATOR	
623 3018	AUTOMATED VEHICLE CLASSIFICATION SYSTEM (8-LANE CONFIGURATION)	
623 1820	3-INCH CONDUIT	
623 1060	SPECIAL M-1 CABINET	
623 0835	LOOP DETECTOR (PRE-FORMED)	
623 0232	NO. 5 PULL BOX, MODIFIED	
618 0540	GALVANIZED GUARDRAIL	
618 0250	REMOVE AND RESET GUARDRAIL	
616 0300	16-FOOT METAL GATE (SPECIAL)	
613 1430	CLASS AA CONCRETE RAMP (4-INCH)	
613 1140	CLASS AA CONCRETE SIDEWALK (4-INCH)	
613 0830	CLASS AA CONCRETE CURB AND GUTTER (TYPE 5)	
613 0130	DETECTABLE WARNINGS	
609 0570	ADJUSTING COVERS (SPECIAL)	
609 0220	ADJUST MANHOLE	
502 0282	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE SB	
502 0281	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE B (OFFSET)	
502 0280	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE B	
502 0275	SINGLE SLOPE CONCRETE BARRIER RAIL, TYPE A	
502 0130	SPECIAL CONCRETE BARRIER RAIL	
402 0100	PLANTMIXING MISCELLANEOUS AREAS	
302 0140	TYPE 1 CLASS B AGGREGATE BASE	
202 1280	REMOVAL OF MEDIAN ISLAND	
202 1255	REMOVAL OF TEMPORARY PORTABLE PRECAST CONCRETE BARRIER RAIL	
202 1110	REMOVE IMPACT ATTENUATOR	
202 0935	REMOVAL OF COMPOSITE SURFACE	
202 0925	REMOVAL OF PULL BOX	
202 0585	REMOVAL OF FENCE	
202 0580	RESET FENCE	
202 0565	REMOVAL OF RETAINING WALL	
202 0475	REMOVAL OF GUARDRAIL	
202 0465	REMOVE GUARDRAIL END TREATMENT	
202 0460	RESET GUARDRAIL END TREATMENT	
202 0400	REMOVAL OF CONCRETE BARRIER RAIL	
	NOTE NO.	DESCRIPTION
		STATION TO STATION
		SHEET 16 CONT.
1		634
	9	CONSTRUCT CONCRETE BARRIER RAIL TYPE B WITH IMPACT ATTENUATOR, LT. "XS" 758+84.31 "XS" 765+17.81
	10	REMOVE GUARDRAIL AND END TREATMENT, LT. "XS" 758+75.69 "XS" 765+07.06
	11	REMOVE GUARDRAIL AND END TREATMENT, RT. "XS" 758+86.56 "XS" 763+69.85
	12	CONSTRUCT CONCRETE BARRIER RAIL TYPE SB, RT. "XS" 759+02.32 "XS" 760+22.18
	13	REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL, LT. "XN" 759+01.48 "XN" 770+03.65
	14	REMOVE GUARDRAIL, RT. "XN" 759+13.67 "XN" 770+22.75
	15	CONSTRUCT CONCRETE BARRIER RAIL TYPE B, RT. "XN" 759+27.91 "XN" 770+12.67
	16	CONSTRUCT CONCRETE BARRIER RAIL TYPE B MODIFIED OFFSET, RT. (SEE SHEET SD8 FOR DETAIL) "XS" 760+22.18 "XS" 768+19.22
	17	REMOVE CONCRETE ISLAND GORE AND PAVE GORE, LT. "XS" 765+36.38 "XS" 765+89.13
1		515
	18	CONCRETE CONCRETE BARRIER RAIL TYPE B WITH IMPACT ATTENUATOR, RT. "XN" 764+82.92 "XN" 769+97.67
	19	REMOVE GUARDRAIL, LT. "XS" 766+64.18 "XS" 769+12.11
	20	CONSTRUCT CONCRETE BARRIER RAIL TYPE SB, RT. "XS" 768+19.22 "XS" 769+31.99
	21	CONSTRUCT CONCRETE BARRIER RAIL TYPE A WITH TRANSITION, LT. "XS" 768+63.52 "XS" 769+01.99
1		251
	22	CONSTRUCT CONCRETE BARRIER RAIL TYPE B WITH IMPACT ATTENUATOR, RT. "V4" 18+19.70 "V4" 20+70.99

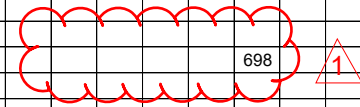


STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	S10

STRUCTURE LIST

REV. 1 5/22/23 TWK
CORRECTED BID ITEM FROM 502 0282 TO 502 0130 FOR SHEET 16, NOTE 23.

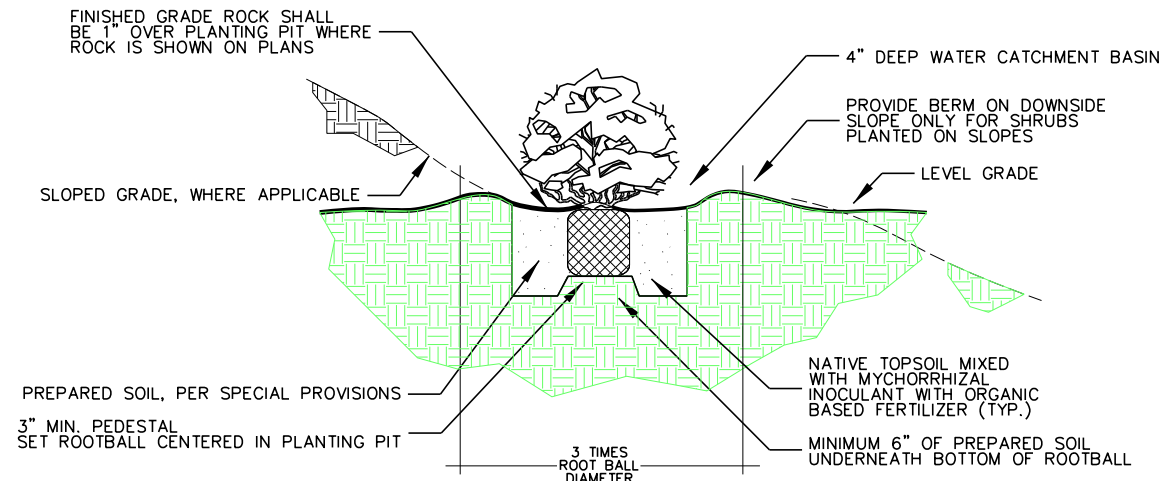
ITEM NO.	DESCRIPTION	STATION TO STATION
SHEET 16 CONT.		
23	CONSTRUCT CONCRETE BARRIER RAIL TYPE SB WITH IMPACT ATTENUATOR, LT. (SEE SHEET SD4 AND SD5 FOR DETAIL)	"V4" 18+36.22 "V4" 21+90.32
24	CONSTRUCT CONCRETE BARRIER RAIL TYPE B WITH IMPACT ATTENUATOR, LT.	"V3" 23+05.68 "V3" 26+21.03
SHEET 17		
1	CONSTRUCT CONCRETE BARRIER RAIL TYPE B, RT.	"V1" 10+97.05 "V1" 20+73.55
2	INSTALL SPEED DETECTOR LOOPS AND PULL BOX IN SHOULDER. SITE #0310367 ALL BRIAN KRAMER, THE TRAFFIC OPERATIONS FIELD OPERATIONS SUPERVISOR FOR THE TRAFFIC INFORMATION DIVISION AT (775) 888-7444. FIVE WORKING DAYS/120 HOURS PRIOR TO SETTING PREFORMED LOOPS FOR EXACT PLACEMENT.	"V4" 14+97.89
3	INSTALL SPEED DETECTOR LOOPS IN SHOULDER. SITE #0310365 CALL BRIAN KRAMER, THE TRAFFIC OPERATIONS FIELD OPERATIONS SUPERVISOR FOR THE TRAFFIC INFORMATION DIVISION AT (775) 888-7444. FIVE WORKING DAYS/120 HOURS PRIOR TO SETTING PREFORMED LOOPS FOR EXACT PLACEMENT.	"V2" 17+11.39
4	REMOVE GUARDRAIL, RT.	"V1" 13+88.40 "V1" 18+67.28
5	REMOVAL OF MEDIAN ISLAND, LT.	"V4" 18+22.00 "V4" 27+39.70
SHEET 18		
1	REMOVE GUARDRAIL, LT.	"V3" 23+93.37 "V3" 26+28.98
2	REMOVE GUARDRAIL, LT.	"V4" 18+69.49 "V4" 20+99.19
3	REMOVE GUARDRAIL AND END TREATMENT, LT.	"XS" 771+24.17 "XS" 772+76.56



K:\PHX_LA\291332000_US395 North Widening\Cadd\Phase 1B\Plans\Landscape\74107 LD101.dgn 6/6/2023 Tiffany.Patrick

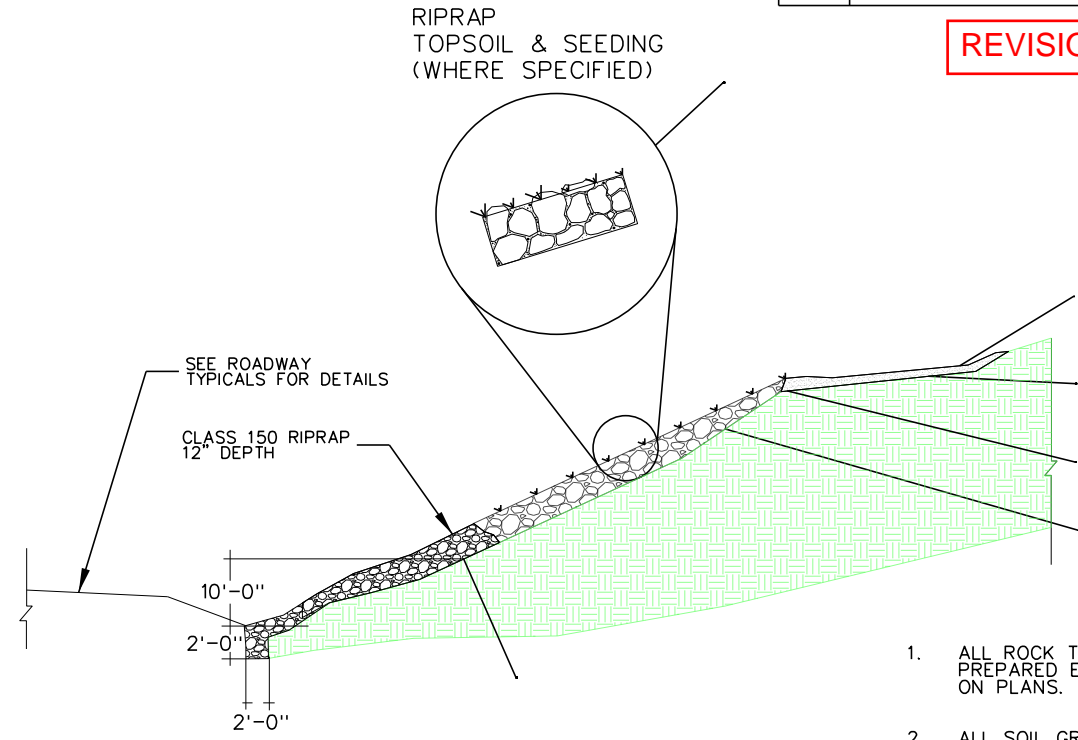
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LD101

REVISION 2 5/22/23



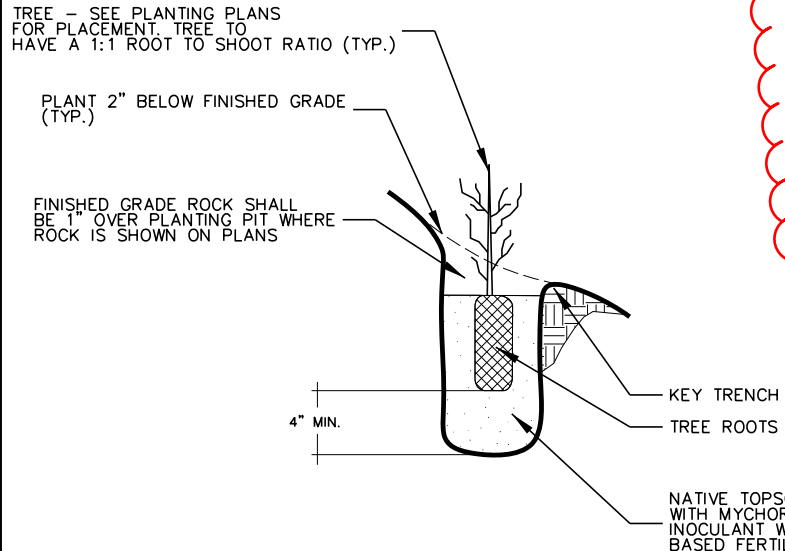
- NOTES:
 1.) PLANT PIT
 2.) DOUBLE MIX
 3.) WOOD MULCH, 3" DEPTH
 4.) PLANT ROOT FLARE 10% ABOVE GRADE
 5.) WATER BASIN, 4" DEPTH

1 SHRUB PLANTING DETAIL
 LD101 NTS

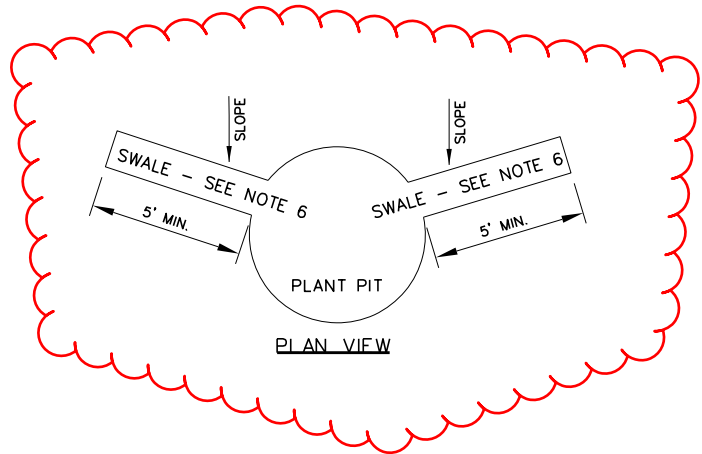


1. ALL ROCK TYPE SHALL BE PLACED ON PREPARED EXPOSED SOIL GRADES WHERE SHOWN ON PLANS.
2. ALL SOIL GRADES SHALL BE UNIFORM IN APPEARANCE PRIOR TO ROCK INSTALLATION.

3 SLOPE STABILIZATION DETAIL
 LD101 NTS



- NOTES:
 1.) MYCORRHIZAL INOCULANT TO BE "MYKO START PRO-MYCORRHIZAL INOCULANT WITH 4-2-2 ORGANIC BASED FERTILIZER AVAILABLE THROUGH REFORESTATION TECHNOLOGIES INTERNATIONAL (800)784-4769 -OR- MYCORRHIZAE (SOLUBLE) AVAILABLE THROUGH AGE OLD ORGANICS (800)255-4906 OR WWW.AGEOLDORGANICS.COM (OR APPROVED EQUAL)
 2.) CONTRACTOR TO FOLLOW APPLICATION RATES AND METHODS PER CHOSEN MANUFACTURERS SPECIFICATIONS



- 3.) ALL TREES TO HAVE A 1:1 ROOT TO SHOOT RATIO AND BE IN GOOD HEALTH AT TIME OF INSPECTION AND PLANTING
- 4.) INSTALL SWALES ON UPHILL SIDE OF PIT TO HARVEST RAINWATER AND GRADE TO PIT.
- 5.) DIG (2) 2" DEEP X 12" WIDE X +/-5' LONG SWALES ON UPHILL SIDE OF PITS TO DIRECT RAINWATER TO PIT CAPTURED FROM SLOPE. FILL WITH DECORATIVE ROCK (NO FINES) OF MATCHING ADJACENT ROCK TYPE.
- 6.) NO DECORATIVE ROCK SHALL BE PLACED UNTIL PLANT PIT SWALES ARE BUILT AND APPROVED.
- 7.) ALL PLANTS SHALL RECEIVE SWALES.

2 T-POT TREE PLANTING DETAIL
 LD101 NTS



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 PHOENIX, AZ 85020
 PHONE: (602) 944-5500

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 US 395 NORTH WIDENING
 FROM I-80 INT TO CA/NV STATE LINE

**PLANT AND SOIL
 DETAILS**

30.00 ft. / in. PLOT SCALE

K:\PHX_LA\291332000_US395_North Widening_Cadd\Phase 1B\Plans\Landscape\74107_LD107.dgn 5/18/2023 Tiffany.Patrick

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LD107

REVISION 1 5/22/23

Pattern Summary						
Soundwalls	Station	Station	Type	Pattern	Notes	Paint
SW 1	14+19.06	0+00.00	Precast	Tree Trunks Random both sides (10x25 Panel)		Front, back, top, and both ends paint 1 foot below grade
SW 2-1 on top of RW 12	10+82.81	0+00.00	Precast	Tree Trunks Random both sides (10x25 Panel)		Front, back, top, and both ends paint 1 foot below grade
SW 2-2 on top of barrier on moment slab	3+83.18	0+00.00	Precast	Tree Trunks Random both sides (10x25 Panel)		Front, back, top, and both ends paint 1 foot below grade
SW 3-1 on top of barrier on moment slab	24+34.14	0+00.00	Precast	Tree Trunks Random both sides (10x25 Panel)		Front, back, top, and both ends paint 1 foot below grade
SW 3-2 on top of barrier on moment slab	16+94.99	0+00.00	Precast	Tree Trunks Random both sides (10x25 Panel)		Front, back, top, and both ends paint 1 foot below grade
SW 6	10+17.30	0+00.00	Precast	Tree Trunks Random both sides (10x25 Panel)		Front, back, top, and both ends paint 1 foot below grade
Retaining walls	Station	Station	Type	Pattern	Notes	Paint
RW 12	645+71.53	641+01.31	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW 3	22+31.07	0+00.00	Soil nail	Standard Rustication Pattern Horizontal		Visible soil nail wall and all visible facets of
RW7	21+88.84	0+00.00	CIP Cantilever	Standard Rustication Pattern Horizontal		Visible CIP wall and all visible facets of
RW16	12+14.33	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW17	12+14.33	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW18	12.68.18	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW19	12+62.40	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW13	10+63.12	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW20	10+50.61	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW9	14+21.59	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW15	11+15.70	10+00.00	MSE	Leaf Pattern (5x5 Panel)		Visible MSE Panel and all visible facets of
RW14	27+69.45	27+07.22	Soil nail	Standard Rustication Pattern Horizontal		Visible soil nail wall and all visible facets of
RW10	32+80.00	32+00.00	Soil nail	Standard Rustication Pattern Vertical		Visible soil nail wall and all visible facets of
Bridges	Station	Station	Type	Pattern	Notes	Paint
I-1093 - Piers				No Pattern		Paint all visible facets to 1 foot below grade
I-1093 - Pier Cap				No Pattern		Paint all visible facets
I-1093 - Underside Deck and Vertical Facets				No Pattern		Paint all visible facets
I-1093 - Bridge Barrier			Cast in Place	Arc, Hammer, Vertical	Approximantly 254 feet east side pattern, 2 center no pattern, west side existing to	Intergral color east and 2 center, Paint west side existing to remain
G-1092 - Piers				No Pattern		Paint all visible facets to 1 foot below grade
G-1092 - Pier Cap				No Pattern		Paint all visible facets
G-1092 - Underside Deck and Vertical Facets				No Pattern		Paint all visible facets
G-1092 - crash barrier at base of piers			Cast in Place	Standard Rustication Pattern Vertical both ends and traffic side only not railroad side.		Paint all visible facets to 1 foot below grade
I-3262 - Abbutment Walls			Cast in Place	Standard Rustication Pattern Horizontal		Paint all visible facets to 1 foot below grade
I-3262 - Wing Walls			Cast in Place	Standard Rustication Pattern Horizontal		Paint all visible facets to 1 foot below grade
I-3262 - Underside Deck and Vertical Facets				No Pattern		Paint all visible facets
I-3262 - Bridge Barrier			Cast in Place	Arc, Hammer, Vertical	Approximantly 165 feet both north and south	No paint intergtal color

LEGEND	
DESCRIPTION	QTY.
MSE WALL PATTERNING	7624 SQ. YD.



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STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 US 395 NORTH WIDENING
 FROM I-80 INT TO CA/NV STATE LINE
**MSE WALL
 AESTHETIC PATTERNING
 SUMMARY SHEET**

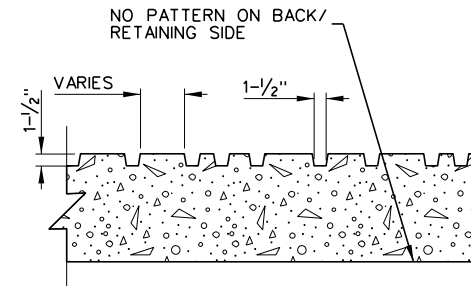
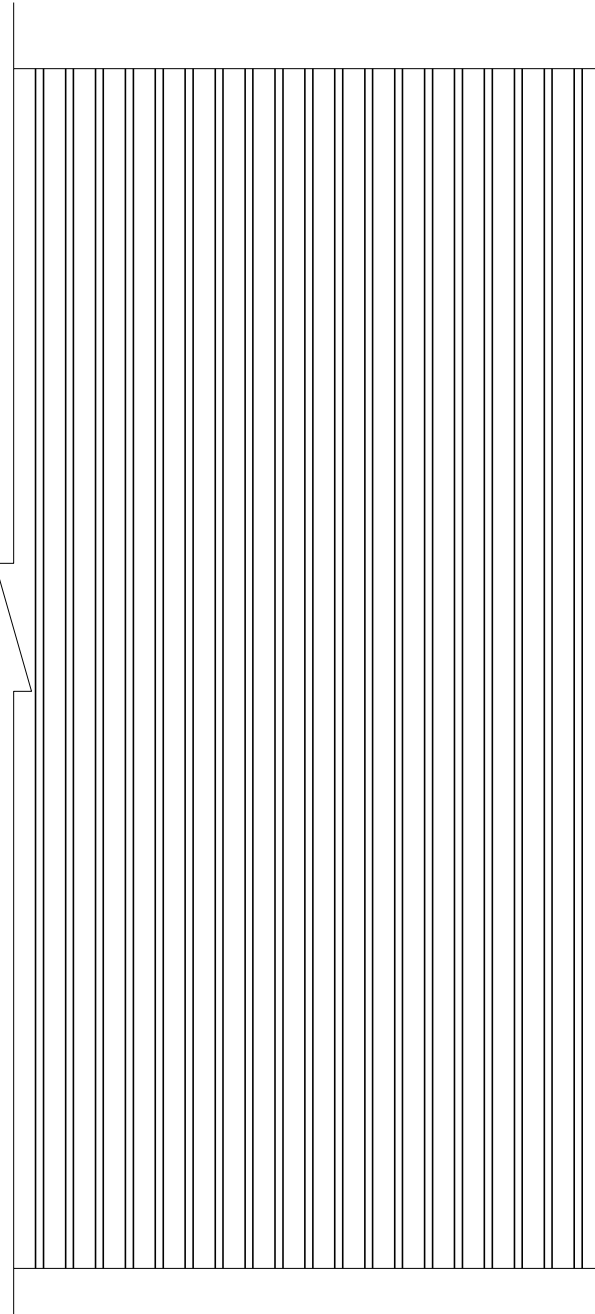
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STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LD108

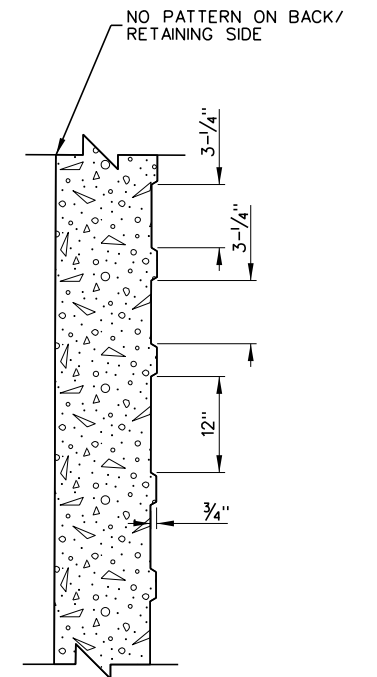
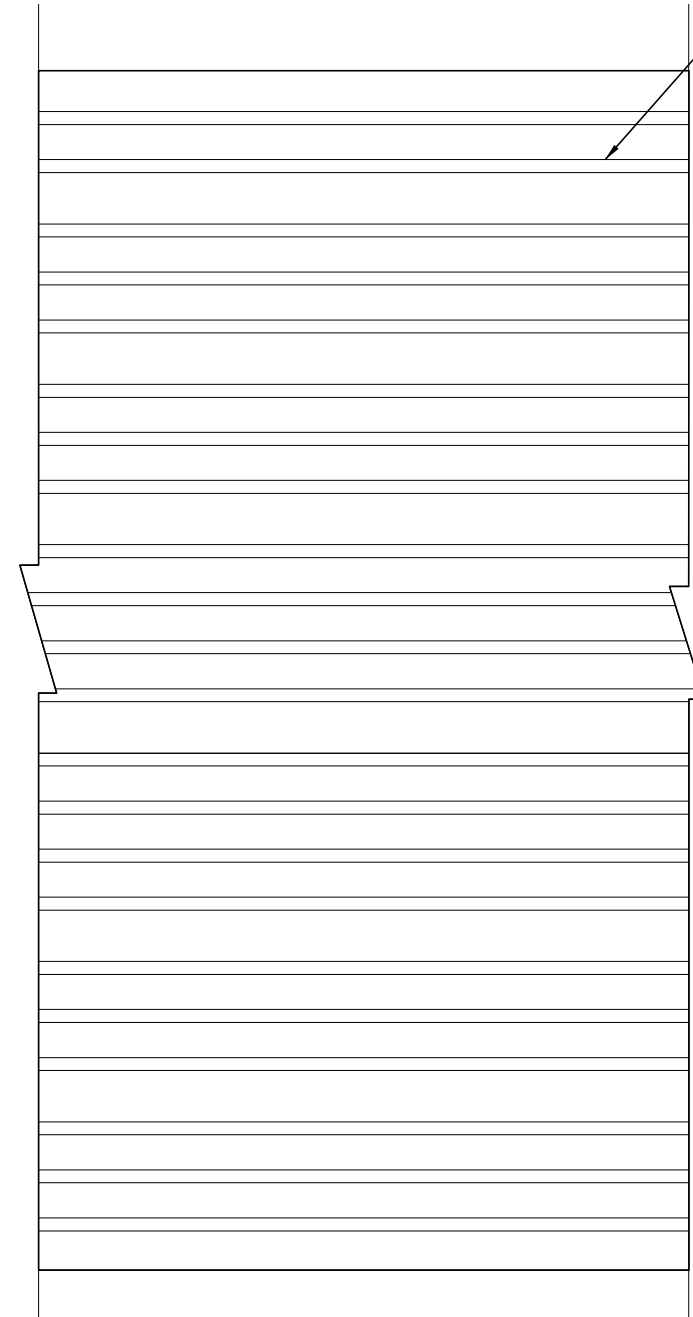
REVISION 1 5/22/23

NOTES TO SPECS:

CONTRACTOR TO PROVIDE SHOP DRAWINGS, INCLUDING JOINTS.
STANDARD RUSTICATION PATTERN IS INCIDENTAL TO WALL CONSTRUCTION.



2 STANDARD RUSTICATION VERTICAL PATTERN - SECTION
LD108 NTS



4 STANDARD RUSTICATION HORIZONTAL PATTERN - SECTION
LD108 NTS

1 STANDARD RUSTICATION VERTICAL PATTERN - SEE SUMMARY TABLE FOR LOCATION
LD108 NTS

3 STANDARD RUSTICATION HORIZONTAL PATTERN - SEE SUMMARY TABLE FOR LOCATION
LD108 NTS

NOTES:

- STANDARD RUSTICATION VERTICAL PATTERN TO BE SCOTT SYSTEM FORMLINER, #145 COLORADO DRAG AGGREGATE OR SPEC FORMLINER, INC. PATTERN, CARLSBAD FLUTE 5754.
- STANDARD RUSTICATION HORIZONTAL PATTERN TO BE SCOTT SYSTEM FORMLINER, #1156 TRAPEZOID OR SPEC FORMLINER, INC. PATTERN, RANDOM FLUTE MODIFIED 1781.



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 PHOENIX, AZ 85020
 PHONE: (602) 944-5500

LEGEND	
DESCRIPTION	QTY.
VERTICAL PATTERN	
HORIZONTAL PATTERN	

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 US 395 NORTH WIDENING
 FROM I-80 INT TO CA/NV STATE LINE
**SOIL NAIL WALL
 CANTILEVERED WALL
 ABUTMENT WALL
 AESTHETIC PATTERNING DETAIL**

30.00 ft. / in. PLOT SCALE

K:\PHX\LA\29132000_US395 North Widening\Cadd\Phase 1B\Plans\Landscape\74107 LS104.dgn 5/18/2023 Tiffany.Patrick

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LS104

REVISION 1 5/22/23

LANDSCAPE AND AESTHETICS STRUCTURE LIST

623 4100	623 1975	623 1785	623 1780	616 1470	610 0470	610 0190	610 0170	212 1950	212 0930	212 0890	212 0860	212 0840	212 0820	212 0430	212 0410	212 0400	212 0395	212 0045	212 0040	211 0150	211 0100	203 0440	DESCRIPTION	STATION TO STATION	
EACH	LINFT	LINFT	LINFT	LINFT	CUYD	CUYD	CUYD	EACH	SOYD	SOYD	EACH	EACH	EACH	EACH	EACH	EACH	MONTH	SOYD	SOYD	ACRE	CUYD	FA			
														2	54	3								SHEET L403 PLANTING	
														3	48	6								SHEET L405 PLANTING	
														8	28	3								SHEET L415 PLANTING	
														4	24	1								SHEET L416 PLANTING	
														3	26	2								SHEET L417 PLANTING	
														6	19	1								SHEET L418 PLANTING	
																				0.42				SHEET L431 SEEDING, SHAPE S-2	
																				0.71				SHEET L432 SEEDING, SHAPE S-3	
																				0.53				SHEET L434 SEEDING, SHAPE S-4	
																								I-1093	
																								G-1092	
																								I-3262	
																								G-1748	
																								SOUNDWALL 1	
																								SOUNDWALL 2-1	
																								SOUNDWALL 2-2	
																								SOUNDWALL 3-1	
																								SOUNDWALL 3-2	
																								SOUNDWALL 6	
																								RETAINING WALL 12	
																								RETAINING WALL 3	
																								RETAINING WALL 7	
																								RETAINING WALL 16	
																								RETAINING WALL 17	
																								RETAINING WALL 18	
																								RETAINING WALL 19	
																								RETAINING WALL 13	
																								RETAINING WALL 20	
																								RETAINING WALL 9	
																								RETAINING WALL 15	
																								RETAINING WALL 14	
																								RETAINING WALL 10	
					22,306									12								1.0		SITE PREPARATION	

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LS105

REVISION 1 5/22/23

LANDSCAPE AND AESTHETICS STRUCTURE LIST

623 4100	623 1975	623 1785	623 1780	616 1470	610 0470	610 0190	610 0170	212 1950	212 0930	212 0890	212 0860	212 0840	212 0820	212 0430	212 0410	212 0400	212 0395	212 0045	212 0040	211 0150	211 0100	203 0440	DESCRIPTION	STATION TO STATION
EACH	LINFT	LINFT	LINFT	LINFT	CUYD	CUYD	CUYD	EACH	SOYD	SOYD	EACH	EACH	EACH	EACH	EACH	EACH	MONTH	SOYD	SOYD	ACRE	CUYD	FA		
3	7,386	71	102					1.0															INSTALL DECORATIVE STRUCTURE (SE)	"XN" 769+90.00
3	1,878	74	36					1.0															INSTALL DECORATIVE STRUCTURE (NW)	"XS" 771+90.00
																				1.05			20% RESEEDING	
6	9,264	145	138	22,306	11,952	3,548	11,029.5	2	34,654	11,110	13	23	24	27	211	18	12	52,555	28,485	6.38	1,773.9	1.0	TOTAL	

1 REVISSED 5/22/2023

GENERAL NOTES

- Design Specifications: AASHTO "LRFD Bridge Design Specifications" Eighth Edition 2017, AASHTO "Guide Specifications for LRFD Seismic Bridge Design" Second Edition 2011, with interims through 2015, and "NDOT Structures Manual" 2008, with interims through 2019. Seismic Retrofit designed in accordance with FHWA "Seismic Retrofitting Manual for Highway Structures: Part 1 Bridges" 2006.
- Construction Specifications: State of Nevada Department of Transportation "Standard Specifications for Road and Bridge Construction, 2014" except as noted below and in The Special Provisions of this Contract.
- Dead Load: In accordance with Specifications with an allowance of 38 psf for future wearing surface and 12 psf for stay-in-place deck formwork.
- Live Load: AASHTO HL-93 Loading. Overload design based on California "Standard Permit Design Vehicles" (Maximum Overload P-13 Truck). Deck Design based on the Equivalent Strip Method with a 40.0 kip axle.
- Seismic Load: PGA Coefficient = 0.50g, Short Period Coefficient (S₁) = 1.25g, Long Period Coefficient (S₂) = 0.50g, Site Class C Soil Profile (SDC D), γ_w = 0.25.
- Concrete: See Concrete Placement Schedule and Diagram for concrete class and compressive strengths.
- Reinforcing Steel: All reinforcing steel shall be ASTM A706. Reinforcing steel for precast girders may be A615 or A706. Dimensions relating to bar spacing are center to center. Bending dimensions are from out to out of the bars. Bar sizes three (3) to nine (9) are indicated by the first number of the mark; ten (10) or larger by the first two numbers. Bar marks with a letter prefix indicate a bent bar. Bar marks with a "D" suffix indicate a doweled bar. Bar marks ending with either the letter "E" or "ED" indicate that the bar shall be epoxy coated the length of the bar. Sizes four (4) and five (5), when considered as bars to control temperature, shrinkage, and distribution stresses by the Engineer, may be adjusted upon concurrence and approval of the Engineer.
- Doweled reinforcing steel: Reinforcing to be doweled in the existing concrete shall be epoxied in drilled holes with a maximum diameter equal to the bar diameter plus 1/4". Holes shall be cleaned with oil free compressed air after drilling. Care shall be taken to avoid damaging existing reinforcing. Minimum embedment shall be 12" unless shown otherwise.
- Foundations: Piers shall be on drilled shaft foundations. For factored axial resistance, refer to Geotechnical Report from HDR titled "Geotechnical Design Report, US395 North Valleys, Washoe County, Nevada".
- Camber: Camber shall be as shown on the Plans.
- Barrier Rail: Designed for TL-4.
- Construction Type Code: x581.
- Concrete construction joints designated as a "Permissible Joint" or as an "Optional Construction Joint" may be incorporated into the construction at the Contractor's option. Joints designated as a "Construction Joint" are considered mandatory and shall be incorporated into the construction unless otherwise approved in writing by the Bridge Design Engineer.
- Elevations and roadway profile information in these plans are approximate and are based on Contract 1286, adjusted to the survey datum for this project. Contractor to verify profile and elevations prior to construction to ensure a smooth roadway profile between new bridge deck and existing roadway. Any discrepancies shall be brought to the attention of the Engineer prior to construction.
- All dimensions are measured at 60 °F unless noted otherwise.
- Verification of Existing Conditions: Before ordering materials or commencing work on any item which may be affected by the dimensions or elevations of the existing structure, the Contractor shall field verify those dimensions and elevations and shall notify the Engineer of any field measured dimensions or elevations which deviate substantially from these plans prior to commencing the work. No direct payment will be made for field measurements.
- All exposed concrete surfaces of new and existing structures (excluding bridge deck) to receive stain or surface treatments as specified in the Landscape & Aesthetic Plans (Bid Item 212 0045). Finishes to extend one foot minimum below surface grade.
- Install 3/4" polymer concrete overlay to bridge deck and approach slabs. Polymer concrete shall be installed from face of rail to face of rail. Refer to Section 496 of the Contract Special Provisions.

SHEET INDEX

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B104B	Railroad Profiles
B104C	Railroad Shoring Zones
B104D	Pier 2 Crashwall Shoring General Notes
B104E	Pier 2 Crashwall Shoring Plan
B105	Excavation and Backfill
B106	Bridge Construction Sequence
B107	Bridge Construction Phases
B108	Removal Details
B109	Pier 1 Elevation
B110	Pier 2 Elevation
B111	Pier 3 Elevation
B112	Pier 4 Elevation
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B114	Column and Drilled Shaft Reinforcing, 2 of 3
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B117	Crash Wall Details
B118	Column Seismic Retrofit Details
B119	Inside Widening Pier Cap Reinforcing
B120	Outside Widening Pier Cap Reinforcing
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B125	Precast Girder Prestressing Details
B126	Precast Girder Reinforcing
B127	Tie Rod Details
B128	CIP Soffit Reinforcing
B129	CIP Girder Reinforcing
B130	Inside Widening Pier Closure Reinforcing
B131	Outside Widening Pier Closure Reinforcing
B132	Pier Cap Closure Details
B133	Inside Widening CIP Deck Reinforcing
B134	Outside Widening CIP Deck Reinforcing
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B136	NB Phase 1 Approach Slab Replacement
B137	SB Phase 1 Approach Slab Replacement
B138	NB Phase 2 Approach Slab Replacement
B139	SB Phase 2 Approach Slab Replacement
B140	Approach Slab Sections and Details
B141	Bridge Rail Spans 1, 2, and 3
B142	Bridge Rail Spans 3, 4, and 5
B143	Pedestrian Rail Type V Modified Details
B144	Expansion Joint Details
B145	Bent Bars, 1 of 2
B146	Bent Bars, 2 of 2
B147	Quantities, 1 of 5
B148	Quantities, 2 of 5
B149	Quantities, 3 of 5
B150	Quantities, 4 of 5
B151	Quantities, 5 of 5

QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	NB	SB	QUANTITY
202 0120	REMOVAL OF PORTION OF BRIDGE DECK	SQFT	8,034	8,034	16,068
202 0125	REMOVAL OF PORTION OF BRIDGE	LS	1	1	1
202 0160	REMOVAL OF EXPANSION JOINT	LIN FT	171	171	342
206 0110	STRUCTURE EXCAVATION	CUYD	200	202	402
207 0110	GRANULAR BACKFILL	CUYD	83	84	167
496 0130	BRIDGE DECK PREPARATION AND CONCRETE PLACEMENT	SQYD	2,072	2,072	4,144
496 0160	POLYMER CONCRETE AGGREGATE	POUND	145,665	145,665	291,330
496 0170	POLYMER CONCRETE RESIN	POUND	20,393	20,393	40,786
502 0360	CONCRETE BRIDGE DECK REPAIR	FA	1	1	1
502 0380	CONCRETE SUPERSTRUCTURE REPAIR	FA	1	1	1
502 0450	SEISMIC RETROFIT OF COLUMNS	LS	1	1	1
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)	CUYD	319	319	638
502 1010	CLASS EA CONCRETE, MODIFIED (MAJOR)	CUYD	483	483	966
502 1950	BRIDGE DECK CURING COMPOUND	GAL	77	77	154
502 2000	PREFORMED JOINT FILLER (2-INCH)	LINFT	309	309	618
502 2100	TEMPORARY SHORING (SPECIAL)	LS	1	1	1
503 0360	48-FOOT PRECAST CONCRETE MEMBERS	EACH	3	3	6
503 0370	50-FOOT PRECAST CONCRETE MEMBERS	EACH	4	4	8
503 0400	53-FOOT PRECAST CONCRETE MEMBERS	EACH	7	7	14
503 0430	56-FOOT PRECAST CONCRETE MEMBERS	EACH	4	4	8
503 0440	58-FOOT PRECAST CONCRETE MEMBERS	EACH	3	3	6
505 0100	REINFORCING STEEL	POUND	65,977	65,977	131,954
505 0110	REINFORCING STEEL (DOWELED)	POUND	1,564	1,564	3,128
505 0120	REINFORCING STEEL (EPOXY COATED)	POUND	144,163	144,075	288,238
506 0110	STRUCTURAL STEEL	POUND	26,319	26,319	52,638
506 0810	PEDESTRIAN RAIL, TYPE V (MODIFIED)	LINFT	412	412	824
509 0170	DRILLED SHAFT FOUNDATION (60-INCH)	LINFT	360	360	720

ABBREVIATIONS

Alt.	Alternate
Brg.	Bearing
Bot.	Bottom
C.G.	Center of Gravity
C.G.S.	Center of Gravity of Steel
CIP	Cast In Place
Clr.	Clear
CMP	Corrugated Metal Pipe
Col.	Column
Const. Jt.	Construction Joint
Dbl.	Double
Dia.	Diameter
Dim.	Dimension
Ea.	Each
E.F.	Each Face
Elev.	Elevation
EQ. Spa.	Equal Space
E.S.	Each Side
Exp.	Expansion
Ext.	Existing/Exterior
E.W.	Each Way
F.F.	Far Face
Flx.	Flxed
Galv.	Galvanized
I.D.	Inner Diameter
Int.	Interior/Intermediate
Jt.	Joint
LOL	Layout Line
Max.	Maximum
Min.	Minimum
N.F.	Near Face
O.D.	Outer Diameter
Opt.	Optional
P.G.	Profile Grade
Ped.	Pedestrian
Pr.	Pair
P.S.	Prestressing
PT	Post-Tensioning
Sect.	Section
Shld.	Shoulder
Sp.	Span
Spa.	Space
Spa. Var.	Spacing Varies
Sq.	Square
Typ.	Typical

STANDARD BAR LAPS

Bar Size	Uncoated (in)	Epoxy Coated (in)
#4	20	24
#5	24	30
#6	30	34
#7	38	45
#8	48	57
#9	60	72
#10	74	88
#11	90	108

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND QUANTITIES

G-1092 N&S

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B104D

GENERAL NOTES:

- Design Specifications: UPRR & BNSF Guidelines for Temporary Shoring, 2021 Ed. AREMA Manual for Railroad Engineering, 2021 Ed. AISC Steel Construction Manual, 15th Ed. National Design Specification for Wood Construction, 2015 Ed. National Design Specifications Supplement Design Values for Wood Construction, 2015 Ed.
- Dead Load Surcharge Loading: Spoil Pile is equal to 2-feet adjacent to the excavation. Track is equal to 200 lbs/linear foot for rails, inside guardrails, and fasteners. Roadbed is equal to 1.81-feet for the ballast and track ties.
- Live Load Surcharge Loading: Cooper E80 live load 10'-9" perpendicular from centerline of track to outside face of shoring. Loading parallel to shoring alignment.
- Structural Steel: HP piles shall be ASTM A572 Gr. 50. Maximum allowable bending stress shall not exceed 0.55 Fy. Maximum allowable shear stress shall not exceed 0.35 Fy.
- Timber Lagging: Timber lagging shall be Douglas Fir Larch Gr. 1 or better.
- Temporary overstress allowances for any shoring element are not allowed.
- Deflection Criteria: Total deflection of the shoring system, including pile and lagging shall not exceed 1#4" under service load condition.
- Design Data: Temporary shoring is designed based on following UPRR parameters.
Level Front and back slopes with ground water table below shoring.
Soil Properties: Unit Weight: $\gamma = 125$ pcf, Internal Friction Angle: $\phi = 34^\circ$, Cohesion: $c = 0$ psf, Active Pressure Coefficient: $K_a = 0.25$, Passive Pressure Coefficient: $K_p = 7$.

Groundwater was encountered in all borings advanced for Bridge G1092 at elevations ranging from 5004-feet to 5024-feet in July 2019. Groundwater levels may fluctuate seasonally and in response to recent precipitation events. It should be anticipated that groundwater may be encountered during construction and use of temporary shoring. Furthermore, refer to Supplemental Geotechnical Memo from HDR titled "Geotechnical Recommendations for Temporary Shoring, US395 North Valleys, Washoe County, Nevada" dated July 2022.

For additional information on subsurface conditions and boring locations, refer to Geotechnical Report from HDR titled "Draft Geotechnical Design Report, Phase 1B: US395 North Valleys, Washoe County, Nevada" dated January 2021.

See Railroad Profiles sheet for UPRR track profile information.
- Notify Engineer if HP piles do not attain the minimum embedment depth required.
- Dimension "X" is the offset measured perpendicular from the centerline of the track to the outside face of the drilled hole at all changes in horizontal alignment and nearest substructure elements.
- All dimensions relative to the Railroad are measured perpendicular to the centerline of the track.
- Any deviation from the plans as shown requires design by a Nevada Registered Professional Engineer, resubmittal, and prior approval by the Engineer and Railroad prior to proceeding with said deviation. Approval from the Railroad may not be granted.
- Contractor to submit plans and details for handrail and protective fence along all edges of the excavation for review and approval by the Engineer and Railroad prior to proceeding with excavation.
- Contractor is responsible to protect the Railroad ballast and subballast from contamination.
- All removed soils shall be disposed of outside the Railroad Right-of-Way.
- The Contractor must monitor the track, ground, and shoring for movement during construction. Any damage to Railroad property such as track, signal equipment, or structure could result in a train derailment. All damage must be reported immediately to the Railroad representative in charge of the project and to the Railroad Track Maintenance Representative.
 - A Track Monitoring Program and Contingency Plan shall be submitted as a separate project submittal for UPRR review.
 - Railroad approval of the track monitoring program and contingency plan(s) is required prior to commencement of work.

Track monitoring and Contingency Plan(s) shall comply with the UPRR Minimum Criteria for Track, Shoring & Existing Structure Monitoring notes herein.
- Contractor to pothole and locate edges of existing bridge spread footings prior to drilling for temporary shoring piles.
- Contractor to submit excavation plan showing proposed limits of excavation, excavation slopes and cross sections for review and approval by the Engineer and Railroad prior to proceeding with excavation. The plan shall include a detailed construction sequence for installation and removal of temporary shoring system.
- Any required changes to limits of shoring shall be brought to the attention of the Engineer and are subject to review and approval and resubmittal to UPRR for review and approval.
- Shoring to be removed at least 3-feet below the final finished grade or at least 3-feet below the base of rail, whichever is lower. Existing site drainage to be restored to pre-construction conditions.
- Contractor to submit material specifications for excavatable backfill, concrete backfill, and compaction criteria for review and approval by the Engineer and Railroad. Refer to Section 207 of the NDOT Standard Specifications for excavatable backfill criteria.
- Temporary or permanent casing is required for drilled soldier pile holes, and shall be designed by the contractor using a minimum lateral pressure of 1ksf. Size, grade and thickness of the casing shall be submitted for review and approval.
- For additional Railroad standards and requirements concerning design and construction of temporary shoring, refer to the current edition of UPRR & BNSF Guidelines for Temporary Shoring.
- All temporary shoring required to construct Pier 2 Crashwalls is paid under Bid Item 502 2100 Temporary Shoring (Special)
- If Contractor proposes secondhand material, Railroad review and approval of a full inspection report will be required for all secondhand material prior to installation. The inspection report shall include documentation of the material properties, their condition, and shall be signed and sealed by a Nevada Registered Professional Engineer.

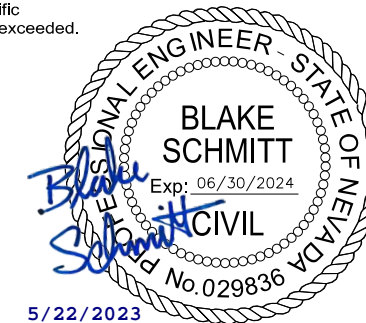
UPRR MINIMUM CRITERIA FOR TRACK, SHORING & EXISTING STRUCTURE MONITORING:

- Monitoring Program: Track, shoring and existing structures shall be monitored for settlement and/or displacement during an adjacent excavation, pile driving or other activity as dictated by the Railroad. A detailed monitoring plan shall be submitted for review by the Railroad prior to the start of any work. The monitoring plan shall comply with the following minimum requirements, however more stringent criteria may be required by the Railroad on a case by case basis:
 - Track, Shoring & Existing Structure Deflection/Settlement Limits:
 - The top of rail shall not permanently deflect more than $\frac{1}{4}$ inch vertical or horizontal.
 - Any point of the shoring shall not deflect more than $\frac{1}{4}$ inch for shoring located at 15' from centerline of track or closer.
 - Any point of the shoring shall not deflect more than $\frac{3}{8}$ inch for shoring located between 15' and 18' from centerline of track.
 - Any point of the shoring shall not deflect more than $\frac{1}{2}$ inch for shoring located more than 18' from centerline of track, unless the shoring is supporting a cut entirely located in Zone B.
 - Any point of existing substructure supporting Railroad Track(s) shall not permanently deflect more than $\frac{3}{8}$ inch vertical or horizontal.
 - Targets:
 - Each track shall have monitoring targets at each rail.
 - Track monitoring shall not require track access other than to place the track monitoring targets.
 - Monitoring targets should be placed such that monitoring is possible when a train is present. However, monitoring during the passing of a train is not required as the train will temporarily deflect the track.
 - Adhesive backed reflective targets may be attached to the side of the rails temporarily. Targets should be removed once monitoring phase is complete.
 - Each shoring system shall have monitoring targets at the top of the shoring and, if a braced system, at points of bracing.
 - Monitor any existing substructures supporting Railroad Track(s) within the vicinity of the work with a minimum of 4 monitoring targets per existing substructure element.
 - The distance between monitoring points on rail and shoring shall be spaced no more than 10 feet apart and rail monitoring points must extend at least 20 feet beyond end of shoring system(s).
 - A plan view shall be developed for Railroad review showing the location of all monitoring points.
 - Execution:
 - If shutdown values are reached, all construction operations shall stop until the matter is resolved.
 - Provide an established contingency plan to the Railroad.
 - Establish a benchmark in the vicinity of the construction. Establish locations for shooting elevations on the targets at each area of construction.
 - Survey equipment and control used for monitoring shall be accurate to 0.01'. GPS quality is not acceptable.
 - Monitoring survey data shall be processed into an easy to interpret digital format and be submitted to the Railroad upon request. The document shall be formatted to keep all prior survey results in one, easy to reference location.
 - Monitoring shall commence once any construction activity is within Zone A.
 - During construction and use of the shoring, monitoring may need to be performed continuously. However, during construction and use of the shoring, monitoring shall never be performed less than least three times a day.
 - Monitoring shall continue after final backfill is complete, at a minimum once a day for 7 days or as required by the Railroad.
- Contingency Plans:
 - The Contractor shall supply Contingency Plan(s) which anticipate reaching the Threshold and Shutdown values, for all construction activities which may result in horizontal and/or vertical track, shoring or existing structure deflection and/or settlement.
 - Track monitoring values:
 - Threshold value = $\frac{1}{8}$ inch permanent vertical or horizontal deflection.
 - Shutdown value = $\frac{1}{4}$ inch permanent vertical or horizontal deflection.
 - Shoring Monitoring values:
 - Shutdown value = $\frac{1}{4}$ inch permanent horizontal deflection for shoring located at 15 feet or closer to track centerline.
 - Shutdown value = $\frac{3}{8}$ inch permanent horizontal deflection for shoring located between 15 feet and 18 feet from centerline of track.
 - Shutdown value = $\frac{1}{2}$ inch permanent horizontal deflection for shoring located further than 18 feet from track centerline, unless the shoring is supporting a cut entirely located in Zone B.
 - Existing Structure Monitoring values:
 - Shutdown value = $\frac{1}{4}$ inch permanent vertical or horizontal deflection and/or settlement.
 - The Contingency Plans shall provide the Contractor's detailed means and methods, with options if necessary.
 - The Contractor shall anticipate the need to implement each Contingency Plan with required materials, equipment and personnel.
 - Once the Threshold value is met the Contractor shall determine the appropriate Contingency Plan(s) and immediately discuss this plan with, and receive confirmation from, the Railroad.
 - Once the Shutdown value is exceeded, all project work shall stop and the chosen Contingency Plan shall commence.
 - The Railroad may choose to allow and/or require the immediate implementation of specific approved Contingency Plans, submitted by the Contractor, once the Shutdown value is exceeded.

CALL BEFORE YOU DIG:

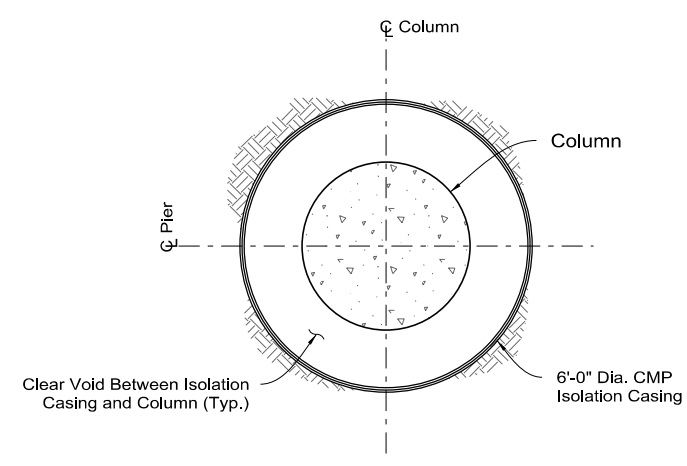
Contractor to verify any underground utilities before construction begins. A Union Pacific Railroad 24-hr by 7-day communication center to assist in protecting, documenting and notifying callers of other utilities installed within the Railroad right-of-way. 1-800-336-9193

UPRR MILEPOST:	8.15
UPRR SUBDIVISION:	RENO IND. LD.
PROJECT CITY:	RENO
REVISION DATE:	OCTOBER 28, 2021
LAT. / LONG.:	39°35'12.77" N / 119°49'25.69" W

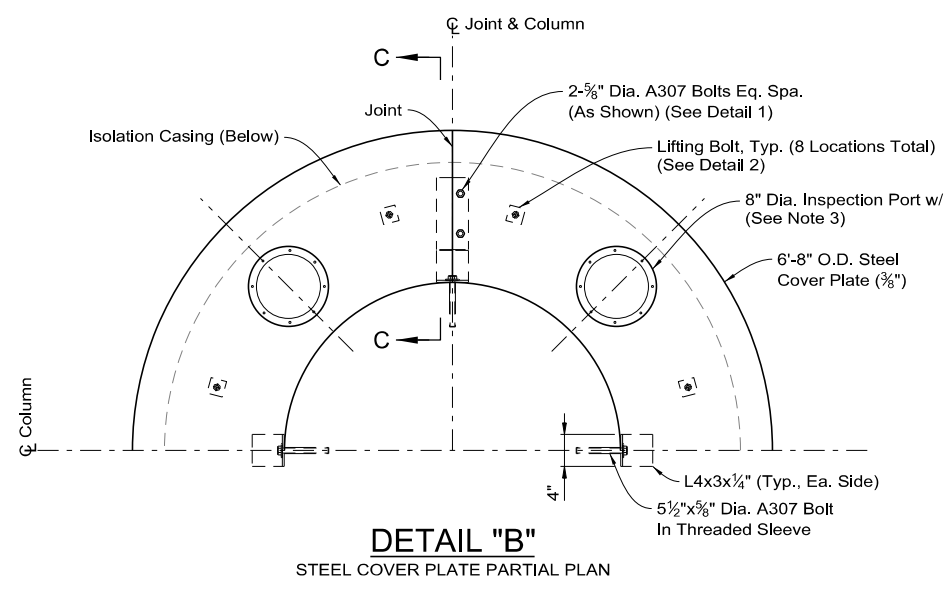


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
**PIER 2
CRASHWALL SHORING
GENERAL NOTES**
G-1092 N&S

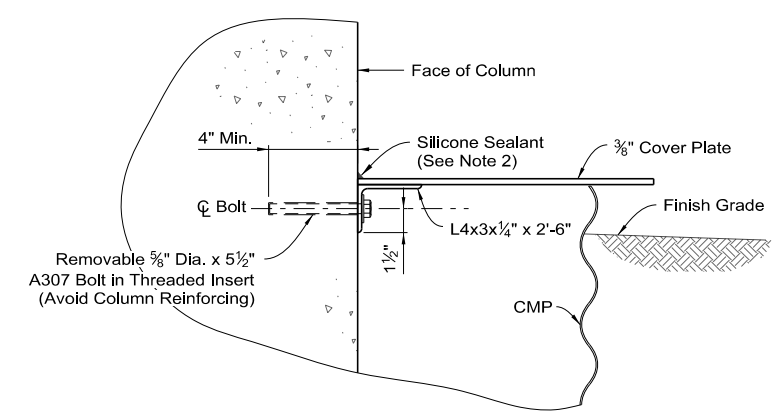
1 REVISD 5/22/2023



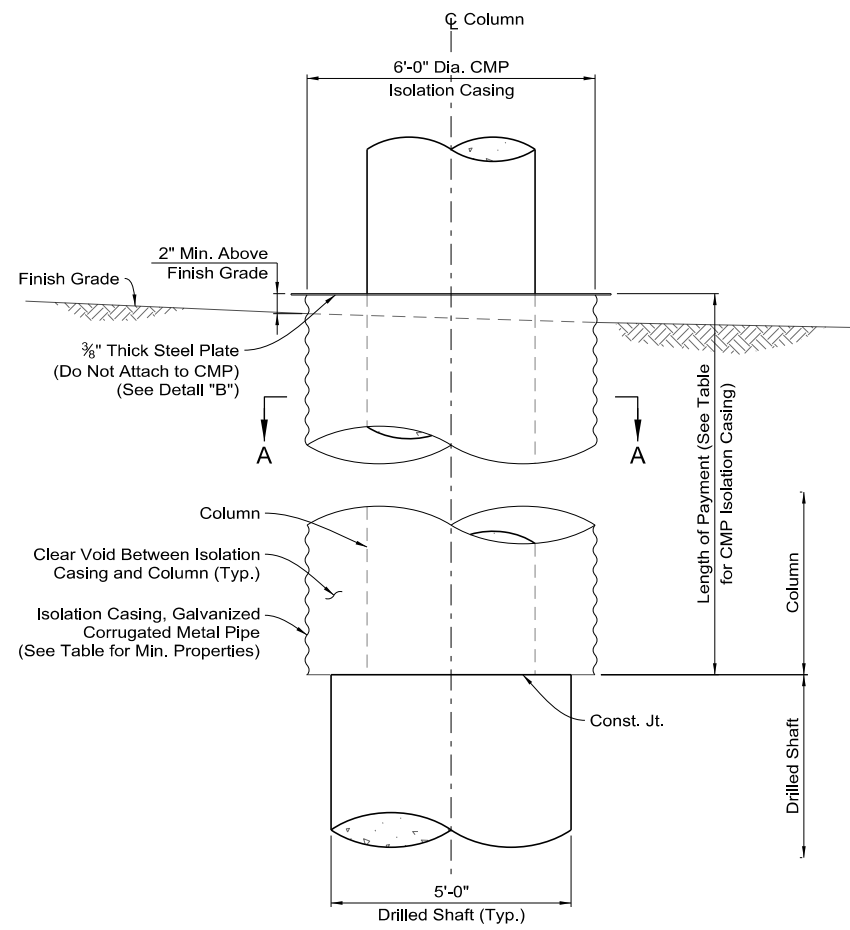
SECTION A-A



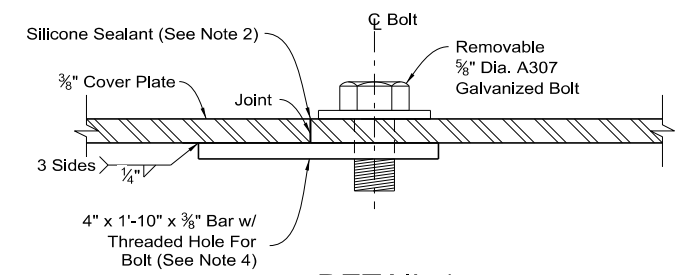
DETAIL "B"
STEEL COVER PLATE PARTIAL PLAN



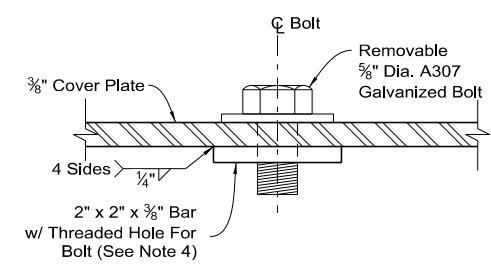
SECTION C-C



ELEVATION
ISOLATION CASING



DETAIL 1



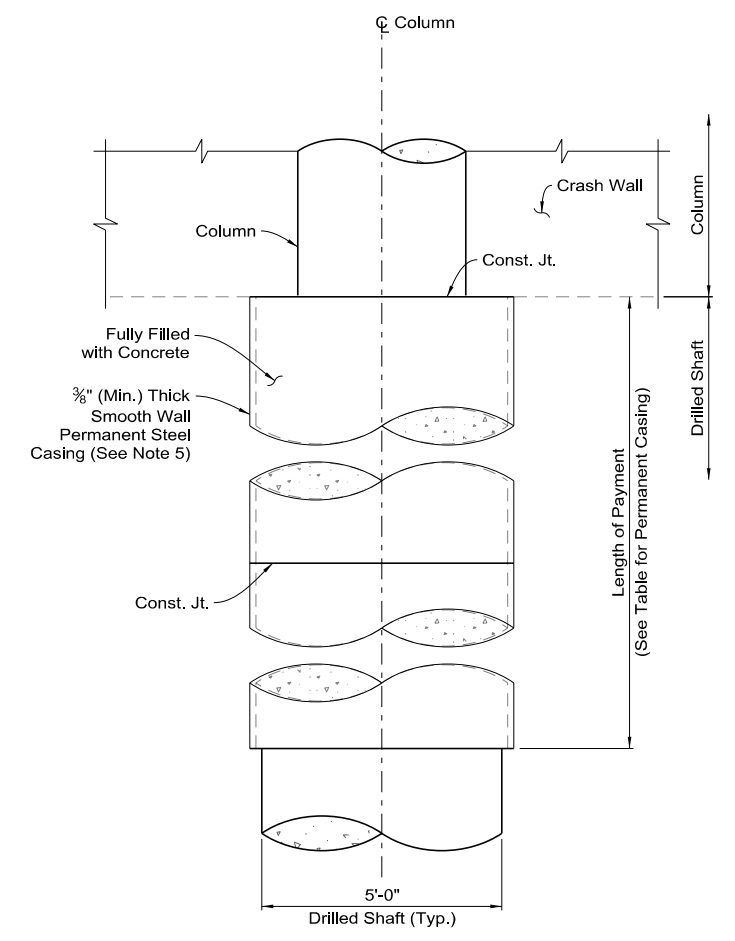
DETAIL 2

COVER PLATE NOTES

- Steel material for cover plate assembly shall be AASHTO M270 Grade 36. Steel cover assembly shall be galvanized after fabrication.
- Fabricate removable steel cover assembly in two sections as shown. Seal joints and joint between column and cover plate with silicone sealant after installation.
- Provide 8" diameter opening in each quadrant of cover plate for inspection. Cover opening using 1/4" steel plate installed with removable screws or bolts. Provide continuous neoprene gasket around opening.
- Threaded holes to receive lifting bolts. Bolts are removable allowing attachment of hardware for lifting assemblies or the insertion of threaded eye bolt.

CASING NOTES

- Steel for isolation casing CMP shall be AASHTO M36. CMP shall be galvanized.
- Back fill shall be brought up uniformly around isolation casing.
- Permanent Casing, Isolation Casing, and Top Plate shall be paid for under Bid Item 506 0110 "Structural Steel".
- All metal used in anchoring CMP to shaft shall be galvanized.
- Where indicated in the plans, permanent casings shall be installed to protect the railroad track against cave-in, subsidence, and/or displacement of the surrounding ground while constructing the drilled shaft foundations. Permanent casings shall be smooth walled with a minimum wall thickness of 3/8". Material shall conform to the requirements of ASTM A252 Grade 2 (or better). Permanent casings may be oversized relative to the drilled shafts in accordance with 509.03.08 of the Standard Specifications.
- Refer to section 509.03.08 of the Contract Special Provisions for additional requirements for the installation of the permanent casings.
- Prior to commencement of work on Piers 2 and 3 drilled foundations, the Contractor shall submit, for Railroad approval, an installation plan. This submittal shall include but not be limited to installation means and methods, casing dimensions and material specification, as well as relevant design calculations.



ELEVATION
PERMANENT CASING

1 DESIGN CASING LENGTHS

Location	Casing Type	Casing Length
PIER 1	1S Isolation	13' - 7"
	2S Isolation	14' - 0"
	1N Isolation	14' - 2"
	2N Isolation	14' - 8"
PIER 2	1S Permanent	16' - 2"
	2S Permanent	16' - 4"
	1N Permanent	16' - 4"
	2N Permanent	16' - 4"
PIER 3	1S Permanent	16' - 6"
	2S Permanent	16' - 7"
	1N Permanent	16' - 8"
	2N Permanent	16' - 8"
PIER 4	1S Isolation	12' - 4"
	2S Isolation	12' - 3"
	1N Isolation	12' - 4"
	2N Isolation	12' - 6"

MINIMUM CMP PROPERTIES

Property	Dimension
Thickness	0.1090 in
Area	1.390 in ² /ft
Radius of Gyration	0.3677 in
Moment of Inertia	0.0156 in ⁴ /in
Diameter	72 in

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ISOLATION AND PERMANENT CASING DETAILS

G-1092 N&S

DATE : 5/17/2023

G-1092 N
PIER 1 & 4 - COLUMN 1N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8435	8	43' - 5"	9	1,043.30 lb.
84510	8	45' - 10"	9	1,101.38 lb.
SP 67964	6	796' - 4"	1	1,196.09 lb.
SUB-TOTAL				
Reinforcing Steel				3,341.00 lb.
Class DA Concrete, Modified (Major) (Structures)				9.21 C.Y.

PIER 1 & 4 - COLUMN 2N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8425	8	42' - 5"	9	1,019.27 lb.
84410	8	44' - 10"	9	1,077.35 lb.
SP 67796	6	779' - 6"	1	1,170.81 lb.
SUB-TOTAL				
Reinforcing Steel				3,268.00 lb.
Class DA Concrete, Modified (Major) (Structures)				8.95 C.Y.

PIER 2 & 3 - COLUMN 1N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8369	8	36' - 9"	12	1,177.47 lb.
8392	8	39' - 2"	12	1,254.90 lb.
C 6085	6	8' - 5"	5	63.21 lb.
SP 638710	6	387' - 10"	1	582.53 lb.
SP 65425	6	542' - 5"	1	814.71 lb.
SUB-TOTAL				
Reinforcing Steel				3,893.00 lb.
Class DA Concrete, Modified (Major) (Structures)				7.46 C.Y.

PIER 2 & 3 - COLUMN 2N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8358	8	35' - 8"	12	1,142.76 lb.
8381	8	38' - 1"	12	1,220.19 lb.
C 6085	6	8' - 5"	5	63.21 lb.
SP 638710	6	387' - 10"	1	582.53 lb.
SP 65061	6	506' - 1"	1	760.14 lb.
SUB-TOTAL				
Reinforcing Steel				3,769.00 lb.
Class DA Concrete, Modified (Major) (Structures)				7.18 C.Y.

CRASH WALL - EXISTING COLUMNS (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
51010	5	10' - 10"	4	45.20 lb.
5123	5	12' - 3"	26	332.20 lb.
5131	5	13' - 1"	67	914.28 lb.
5338	5	33' - 8"	13	456.49 lb.
R 5035	5	3' - 5"	334	1,190.24 lb.
R 5029D	5	2' - 9"	26	74.57 lb.
R 5043D	5	4' - 3"	52	230.50 lb.
R 5055D	5	5' - 5"	52	293.78 lb.
R 5069D	5	6' - 9"	26	183.05 lb.
SUB-TOTAL				
Reinforcing Steel				2,939.00 lb.
Reinforcing Steel (Doweled)				782.00 lb.
Class DA Concrete, Modified (Major) (Structures)				40.73 C.Y.

CRASH WALL - NEW COLUMNS (EACH)(x4)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
5093	5	9' - 3"	41	395.56 lb.
5131	5	13' - 1"	25	341.15 lb.
R 5035	5	3' - 5"	84	299.34 lb.
R 5078	5	7' - 8"	28	223.90 lb.
R 5093	5	9' - 3"	14	135.07 lb.
R 5103	5	10' - 3"	27	288.65 lb.
SUB-TOTAL				
Reinforcing Steel				1,684.00 lb.
Class DA Concrete, Modified (Major) (Structures)				12.85 C.Y.

PIER CAP - INSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
6116	6	11' - 6"	2	34.55 lb.	
6165	6	16' - 5"	2	49.32 lb.	
9165	9	16' - 5"	8	446.53 lb.	
C 4054E	4	5' - 4"	4	14.25 lb.	
C 5052	5	5' - 2"	8	43.11 lb.	
C 50511	5	5' - 11"	16	98.74 lb.	
C 6067	6	6' - 7"	30	296.65 lb.	
C 60711	6	7' - 11"	2	23.78 lb.	
C 6110E	6	11' - 0"	2	33.04 lb.	
C 7074E	7	7' - 4"	8	119.91 lb.	
C 8168	8	16' - 8"	12	534.00 lb.	
C 9202	9	20' - 2"	8	548.53 lb.	
2 Set	C61211E	to	C6137E	4 Bars/Set	159.21 lb.
2 Set	C6121E	to	C6131E	10 Bars/Set	378.00 lb.
2 Set	C61315E	to	C6155E	10 Bars/Set	445.59 lb.
2 Set	C6158E	to	C6164E	4 Bars/Set	192.26 lb.
SUB-TOTAL					
Reinforcing Steel				2,076.00 lb.	
Reinforcing Steel (Epoxy Coated)				1,343.00 lb.	
Class DA Concrete, Modified (Major) (Structures)				7.08 C.Y.	

PIER CAP - INSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
6116	6	11' - 6"	2	34.55 lb.	
6165	6	16' - 5"	2	49.32 lb.	
9165	9	16' - 5"	8	446.53 lb.	
C 4054E	4	5' - 4"	4	14.25 lb.	
C 5052	5	5' - 2"	8	43.11 lb.	
C 50511	5	5' - 11"	16	98.74 lb.	
C 6067	6	6' - 7"	30	296.65 lb.	
C 60711	6	7' - 11"	4	47.56 lb.	
C 7076E	7	7' - 6"	8	122.64 lb.	
C 8168	8	16' - 8"	12	534.00 lb.	
C 9202	9	20' - 2"	8	548.53 lb.	
4 Set	C61010E	to	C61210E	10 Bars/Set	710.95 lb.
4 Set	C6131E	to	C6139E	4 Bars/Set	322.43 lb.
SUB-TOTAL					
Reinforcing Steel				2,099.00 lb.	
Reinforcing Steel (Epoxy Coated)				1,171.00 lb.	
Class DA Concrete, Modified (Major) (Structures)				7.08 C.Y.	

PIER CAP - OUTSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
6094	6	9' - 4"	2	28.04 lb.	
6122	6	12' - 2"	2	36.55 lb.	
7122	7	12' - 2"	8	198.95 lb.	
C 4054E	4	5' - 4"	4	14.25 lb.	
C 5052	5	5' - 2"	8	43.11 lb.	
C 50511	5	5' - 11"	16	98.74 lb.	
C 6067	6	6' - 7"	22	217.54 lb.	
C 60711	6	7' - 11"	2	23.78 lb.	
C 6110E	6	11' - 0"	2	33.04 lb.	
C 7074E	7	7' - 4"	8	119.91 lb.	
C 7147	7	14' - 7"	8	238.47 lb.	
C 8128	8	12' - 8"	12	405.84 lb.	
2 Set	C6108E	to	C6123E	6 Bars/Set	206.53 lb.
2 Set	C6127E	to	C6137E	4 Bars/Set	157.21 lb.
2 Set	C6135E	to	C6150E	6 Bars/Set	256.09 lb.
2 Set	C6154E	to	C6164E	4 Bars/Set	190.25 lb.
SUB-TOTAL					
Reinforcing Steel				1,292.00 lb.	
Reinforcing Steel (Epoxy Coated)				978.00 lb.	
Class DA Concrete, Modified (Major) (Structures)				5.42 C.Y.	

PIER CAP - OUTSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
6094	6	9' - 4"	2	28.04 lb.	
6122	6	12' - 2"	2	36.55 lb.	
7122	7	12' - 2"	8	198.95 lb.	
C 4054E	4	5' - 4"	4	14.25 lb.	
C 5052	5	5' - 2"	8	43.11 lb.	
C 50511	5	5' - 11"	16	98.74 lb.	
C 6067	6	6' - 7"	22	217.54 lb.	
C 60711	6	7' - 11"	4	47.56 lb.	
C 7076E	7	7' - 6"	8	122.64 lb.	
C 7147	7	14' - 7"	8	238.47 lb.	
C 8128	8	12' - 8"	12	405.84 lb.	
2 Set	C61010E	to	C6125E	6 Bars/Set	209.53 lb.
2 Set	C6129E	to	C6139E	4 Bars/Set	159.21 lb.
SUB-TOTAL					
Reinforcing Steel				1,315.00 lb.	
Reinforcing Steel (Epoxy Coated)				506.00 lb.	
Class DA Concrete, Modified (Major) (Structures)				5.42 C.Y.	

BOTTOM SLAB - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
42110	4	21' - 10"	62	904.25 lb.	
D 6179	6	17' - 9"	70	1,866.24 lb.	
2 Set	D6036	to	D61411	8 Bars/Set	221.29 lb.
2 Set	D6039	to	D6162	8 Bars/Set	239.32 lb.
SUB-TOTAL					
Reinforcing Steel				3,232.00 lb.	
Class DA Concrete, Modified (Major) (Structures)				12.06 C.Y.	

BOTTOM SLAB - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
42110	4	21' - 10"	46	670.89 lb.	
D 6139	6	13' - 9"	74	1,528.29 lb.	
2 Set	D6039	to	D61111	6 Bars/Set	141.19 lb.
2 Set	D6045	to	D61011	5 Bars/Set	115.15 lb.
SUB-TOTAL					
Reinforcing Steel				2,456.00 lb.	
Class DA Concrete, Modified (Major) (Structures)				9.05 C.Y.	

WEBS & END DIAPHRAGMS - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4164E	4	16' - 4"	12	130.93 lb.
4219	4	21' - 9"	20	290.58 lb.
S 4069E	4	6' - 9"	340	1,533.06 lb.
G 4070E	4	7' - 0"	36	168.34 lb.
G 8231	8	23' - 1"	20	1,232.65 lb.
SUB-TOTAL				
Reinforcing Steel				1,524.00 lb.
Reinforcing Steel (Epoxy Coated)				1,833.00 lb.
Class DA Concrete, Modified (Major) (Structures)				7.87 C.Y.

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WEBS & END DIAPHRAGMS - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4122E	4	12' - 2"	12	97.53 lb.
4219	4	21' - 9"	16	232.46 lb.
S 4069E	4	6' - 9"	272	1,226.45 lb.
G 4070E	4	7' - 0"	28	130.93 lb.
G 8231	8	23' - 1"	16	986.12 lb.
SUB-TOTAL				
Reinforcing Steel				1,219.00 lb.
Reinforcing Steel (Epoxy Coated)				1,455.00 lb.
Class DA Concrete, Modified (Major) (Structures)				5.90 C.Y.

PIER CLOSURE - INSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4165	4	16' - 5"	3	32.90 lb.
6165	6	16' - 5"	4	98.63 lb.
C 5044	5	4' - 4"	64	289.26 lb.
C 5058	5	5' - 8"	4	23.64 lb.
C 6185E	6	18' - 5"	6	165.97 lb.
SUB-TOTAL				
Reinforcing Steel				445.00 lb.
Reinforcing Steel (Epoxy Coated)				166.00 lb.
Class DA Concrete, Modified (Major) (Structures)				8.20 C.Y.

PIER CLOSURE - INSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4165	4	16' - 5"	2	21.93 lb.
6165	6	16' - 5"	4	98.63 lb.
C 5033	5	3' - 3"	64	216.94 lb.
C 5047	5	4' - 7"	4	19.12 lb.
C 7189E	7	18' - 9"	4	153.30 lb.
SUB-TOTAL				
Reinforcing Steel				357.00 lb.
Reinforcing Steel (Epoxy Coated)				154.00 lb.
Class DA Concrete, Modified (Major) (Structures)				2.04 C.Y.
Class EA Concrete, Modified (Major)				5.76 C.Y.

PIER CLOSURE - OUTSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4122	4	12' - 2"	3	24.38 lb.
6122	6	12' - 2"	4	73.10 lb.
C 5044	5	4' - 4"	48	216.94 lb.
C 5058	5	5' - 8"	4	23.64 lb.
C 6142E	6	14' - 2"	6	127.67 lb.
SUB-TOTAL				
Reinforcing Steel				339.00 lb.
Reinforcing Steel (Epoxy Coated)				128.00 lb.
Class DA Concrete, Modified (Major) (Structures)				6.15 C.Y.

PIER CLOSURE - OUTSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4122	4	12' - 2"	2	16.25 lb.
6122	6	12' - 2"	4	73.10 lb.
C 5033	5	3' - 3"	48	162.71 lb.
C 5047	5	4' - 7"	4	19.12 lb.
C 7146E	7	14' - 6"	4	118.55 lb.
SUB-TOTAL				
Reinforcing Steel				272.00 lb.
Reinforcing Steel (Epoxy Coated)				119.00 lb.
Class DA Concrete, Modified (Major) (Structures)				1.53 C.Y.
Class EA Concrete, Modified (Major)				4.48 C.Y.

TOP SLAB - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4318	4	31' - 8"	22	465.37 lb.
4600E	4	60' - 0"	66	2,645.28 lb.
5045E	5	4' - 5"	314	1,446.47 lb.
5199E	5	19' - 9"	487	10,031.83 lb.
52110E	5	21' - 10"	64	1,457.42 lb.
5282E	5	28' - 2"	8	235.02 lb.
5600E	5	60' - 0"	24	1,501.92 lb.
10300E	10	30' - 0"	40	5,163.60 lb.
10370E	10	37' - 0"	40	6,368.44 lb.
10376E	10	37' - 6"	40	6,454.50 lb.
10435E	10	43' - 5"	40	7,472.88 lb.
D 5055E	5	5' - 5"	287	1,621.43 lb.
D 5070E	5	7' - 0"	83	605.98 lb.
D 5090E	5	9' - 0"	204	1,914.95 lb.
1 Set 50110E	to	5168E	10 Bars/Set	96.48 lb.
1 Set 50111E	to	5183E	11 Bars/Set	115.69 lb.
1 Set 5028E	to	5176E	10 Bars/Set	105.17 lb.
1 Set 5029E	to	5191E	11 Bars/Set	125.25 lb.
SUB-TOTAL				
Reinforcing Steel (Epoxy Coated)				47,828.00 lb.
Class EA Concrete, Modified (Major)				111.79 C.Y.

TOP SLAB - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4318E	4	31' - 8"	18	380.76 lb.
4600E	4	60' - 0"	54	2,164.32 lb.
5045E	5	4' - 5"	316	1,455.68 lb.
5159E	5	15' - 9"	489	8,032.93 lb.
52110E	5	21' - 10"	48	1,093.06 lb.
5282E	5	28' - 2"	8	235.02 lb.
5600E	5	60' - 0"	24	1,501.92 lb.
10300E	10	30' - 0"	32	4,130.88 lb.
10370E	10	37' - 0"	32	5,094.75 lb.
10376E	10	37' - 6"	32	5,163.60 lb.
10435E	10	43' - 5"	32	5,978.30 lb.
D 5055E	5	5' - 5"	288	1,627.08 lb.
D 5070E	5	7' - 0"	83	605.98 lb.
D 5090E	5	9' - 0"	205	1,924.34 lb.
1 Set 5018E	to	5131E	8 Bars/Set	61.54 lb.
1 Set 5024E	to	5155E	9 Bars/Set	83.31 lb.
1 Set 5025E	to	51310E	8 Bars/Set	67.80 lb.
1 Set 5033E	to	5178E	8 Bars/Set	87.26 lb.
SUB-TOTAL				
Reinforcing Steel (Epoxy Coated)				39,689.00 lb.
Class EA Concrete, Modified (Major)				90.13 C.Y.

APPROACH SLAB - PHASE 1 - BEGIN BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4280E	4	28' - 0"	30	561.12 lb.
43010E	4	30' - 10"	55	1,132.82 lb.
5293E	5	29' - 3"	5	152.54 lb.
53010E	5	30' - 10"	28	900.46 lb.
63010E	6	30' - 10"	2	92.62 lb.
7070E	7	7' - 0"	28	400.62 lb.
7280E	7	28' - 0"	60	3,433.92 lb.
AS 4020E	4	2' - 0"	30	40.08 lb.
AS 4041E	4	4' - 1"	30	81.83 lb.
AS 50210E	5	2' - 10"	29	85.70 lb.
AS 50610E	5	6' - 10"	29	206.69 lb.
D 5055E	5	5' - 5"	40	225.98 lb.
SUB-TOTAL				
Reinforcing Steel (Epoxy Coated)				7,315.00 lb.
Class EA Concrete, Modified (Major)				39.85 C.Y.

APPROACH SLAB - PHASE 1 - END BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
42311E	4	23' - 11"	30	479.29 lb.
4296E	4	29' - 6"	1	19.71 lb.
43010E	4	30' - 10"	54	1,112.22 lb.
5293E	5	29' - 3"	5	152.54 lb.
5296E	5	29' - 6"	1	30.77 lb.
53010E	5	30' - 10"	23	739.66 lb.
63010E	6	30' - 10"	2	92.62 lb.
7070E	7	7' - 0"	24	343.39 lb.
72311E	7	23' - 11"	60	2,933.14 lb.
AS 4020E	4	2' - 0"	30	40.08 lb.
AS 4041E	4	4' - 1"	30	81.83 lb.
AS 50210E	5	2' - 10"	29	85.70 lb.
AS 50610E	5	6' - 10"	29	206.69 lb.
D 5055E	5	5' - 5"	35	197.74 lb.
SUB-TOTAL				
Reinforcing Steel (Epoxy Coated)				6,516.00 lb.
Class EA Concrete, Modified (Major)				35.56 C.Y.

APPROACH SLAB - PHASE 2 - BEGIN BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4020DE	4	2' - 0"	28	37.41 lb.
4033E	4	3' - 3"	27	58.62 lb.
4280E	4	28' - 0"	48	897.79 lb.
4466E	4	46' - 6"	54	1,677.35 lb.
4453E	4	45' - 3"	1	30.23 lb.
5280E	5	28' - 0"	2	58.41 lb.
54411E	5	44' - 11"	5	234.24 lb.
5446E	5	44' - 6"	27	1,253.16 lb.
5453E	5	45' - 3"	1	47.20 lb.
6453E	6	45' - 3"	1	67.97 lb.
6460E	6	46' - 0"	1	69.09 lb.
7280E	7	28' - 0"	90	5,150.88 lb.
AS 4020E	4	2' - 0"	44	58.78 lb.
AS 4041E	4	4' - 1"	44	120.02 lb.
AS 50210E	5	2' - 10"	44	130.03 lb.
AS 50610E	5	6' - 10"	44	313.60 lb.
AS 50311E	5	3' - 11"	27	110.30 lb.
AS 6090E	6	9' - 0"	27	364.99 lb.
D 5055E	5	5' - 5"	40	225.98 lb.
SUB-TOTAL				
Reinforcing Steel (Epoxy Coated)				10,869.00 lb.
Reinforcing Steel (Epoxy Coated)(Doweled)				38.00 lb.
Class EA Concrete, Modified (Major)				62.83 C.Y.

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APPROACH SLAB - PHASE 2 - END BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4020DE	4	2' - 0"	24	32.06 lb.
4033E	4	3' - 3"	22	47.76 lb.
42311E	4	23' - 11"	48	766.86 lb.
4466E	4	46' - 6"	55	1,708.41 lb.
52311E	5	23' - 11"	2	49.89 lb.
54411E	5	44' - 11"	5	234.24 lb.
5446E	5	44' - 6"	24	1,113.92 lb.
6453E	6	45' - 3"	1	67.97 lb.
6460E	6	46' - 0"	1	69.09 lb.
72311E	7	23' - 11"	90	4,399.71 lb.
AS 4020E	4	2' - 0"	44	58.78 lb.
AS 4041E	4	4' - 1"	44	120.02 lb.
AS 50210E	5	2' - 10"	44	130.03 lb.
AS 50610E	5	6' - 10"	44	313.60 lb.
AS 50311E	5	3' - 11"	22	89.87 lb.
AS 6090E	6	9' - 0"	22	297.40 lb.
D 5055E	5	5' - 5"	35	197.74 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 9,666.00 lb.
 Reinforcing Steel (Epoxy Coated)(Doweled) 33.00 lb.
 Class EA Concrete, Modified (Major) 55.95 C.Y.

BRIDGE RAIL - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4196E	4	19' - 6"	8	104.21 lb.
4205E	4	20' - 5"	8	109.11 lb.
4241E	4	24' - 1"	10	160.88 lb.
4256E	4	25' - 6"	16	272.54 lb.
42610E	4	26' - 10"	16	286.79 lb.
4281E	4	28' - 1"	16	300.15 lb.
4294E	4	29' - 4"	10	195.95 lb.
4318E	4	31' - 8"	2	42.31 lb.
4600E	4	60' - 0"	6	240.48 lb.
P 5085E	5	8' - 5"	362	3,177.85 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 4,891.00 lb.
 Class EA Concrete, Modified (Major) 33.24 C.Y.

BRIDGE RAIL - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4196E	4	19' - 6"	8	104.21 lb.
4205E	4	20' - 5"	8	109.11 lb.
4241E	4	24' - 1"	10	160.88 lb.
4246E	4	24' - 6"	16	261.86 lb.
42610E	4	26' - 10"	16	286.79 lb.
4281E	4	28' - 1"	10	187.60 lb.
4292E	4	29' - 2"	16	311.73 lb.
4318E	4	31' - 8"	2	42.31 lb.
4600E	4	60' - 0"	6	240.48 lb.
D 4076E	4	7' - 6"	3	15.03 lb.
P 5085E	5	8' - 5"	362	3,177.85 lb.
D 6098E	6	9' - 8"	5	72.60 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 4,971.00 lb.
 Class EA Concrete, Modified (Major) 33.24 C.Y.

NORTHBOUND TOTALS
 Reinforcing Steel 65,977.00 lb.
 Reinforcing Steel (Epoxy Coated) 144,163.00 lb. **1**
 Reinforcing Steel (Doweled) 1,564.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 319.14 C.Y. **1**
 Class EA Concrete, Modified (Major) 483.10 C.Y.

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PIER 1 & 4 - COLUMN 1N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8435	8	43' - 5"	9	1,043.30 lb.
84510	8	45' - 10"	9	1,101.38 lb.
SP 67964	6	796' - 4"	1	1,196.09 lb.

SUB-TOTAL
 Reinforcing Steel 3,341.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 9.21 C.Y.

PIER 1 & 4 - COLUMN 2N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8425	8	42' - 5"	9	1,019.27 lb.
84410	8	44' - 10"	9	1,077.35 lb.
SP 67796	6	779' - 6"	1	1,170.81 lb.

SUB-TOTAL
 Reinforcing Steel 3,268.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 8.95 C.Y.

PIER 2 & 3 - COLUMN 1N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8369	8	36' - 9"	12	1,177.47 lb.
8392	8	39' - 2"	12	1,254.90 lb.
C 6085	6	8' - 5"	5	63.21 lb.
SP 638710	6	387' - 10"	1	582.53 lb.
SP 65425	6	542' - 5"	1	814.71 lb.

SUB-TOTAL
 Reinforcing Steel 3,893.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 7.46 C.Y.

PIER 2 & 3 - COLUMN 2N (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
8358	8	35' - 8"	12	1,142.76 lb.
8381	8	38' - 1"	12	1,220.19 lb.
C 6085	6	8' - 5"	5	63.21 lb.
SP 638710	6	387' - 10"	1	582.53 lb.
SP 65061	6	506' - 1"	1	760.14 lb.

SUB-TOTAL
 Reinforcing Steel 3,769.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 7.18 C.Y.

CRASH WALL - EXISTING COLUMNS (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
51010	5	10' - 10"	4	45.20 lb.
5123	5	12' - 3"	26	332.20 lb.
5131	5	13' - 1"	67	914.28 lb.
5338	5	33' - 8"	13	456.49 lb.
R 5035	5	3' - 5"	334	1,190.24 lb.
R 5029D	5	2' - 9"	26	74.57 lb.
R 5043D	5	4' - 3"	52	230.50 lb.
R 5055D	5	5' - 5"	52	293.78 lb.
R 5069D	5	6' - 9"	26	183.05 lb.

SUB-TOTAL
 Reinforcing Steel 2,939.00 lb.
 Reinforcing Steel (Doweled) 782.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 40.73 C.Y.

CRASH WALL - NEW COLUMNS (EACH)(x4)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
5093	5	9' - 3"	41	395.56 lb.
5131	5	13' - 1"	25	341.15 lb.
R 5035	5	3' - 5"	84	299.34 lb.
R 5078	5	7' - 8"	28	223.90 lb.
R 5093	5	9' - 3"	14	135.07 lb.
R 5103	5	10' - 3"	27	288.65 lb.

SUB-TOTAL
 Reinforcing Steel 1,684.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 12.85 C.Y.

PIER CAP - INSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
6116	6	11' - 6"	2	34.55 lb.
6165	6	16' - 5"	2	49.32 lb.
9165	9	16' - 5"	8	446.53 lb.
C 4054E	4	5' - 4"	4	14.25 lb.
C 5052	5	5' - 2"	8	43.11 lb.
C 50511	5	5' - 11"	16	98.74 lb.
C 6067	6	6' - 7"	30	296.65 lb.
C 60711	6	7' - 11"	2	23.78 lb.
C 6110E	6	11' - 0"	2	33.04 lb.
C 7074E	7	7' - 4"	8	119.91 lb.
C 8168	8	16' - 8"	12	534.00 lb.
C 9202	9	20' - 2"	8	548.53 lb.
2 Set C61211E	to	C6137E	4 Bars/Set	159.21 lb.
2 Set C6121E	to	C6131E	10 Bars/Set	378.00 lb.
2 Set C61315E	to	C6155E	10 Bars/Set	445.59 lb.
2 Set C6158E	to	C6164E	4 Bars/Set	192.26 lb.

SUB-TOTAL
 Reinforcing Steel 2,076.00 lb.
 Reinforcing Steel (Epoxy Coated) 1,343.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 7.08 C.Y.

PIER CAP - INSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
6116	6	11' - 6"	2	34.55 lb.
6165	6	16' - 5"	2	49.32 lb.
9165	9	16' - 5"	8	446.53 lb.
C 4054E	4	5' - 4"	4	14.25 lb.
C 5052	5	5' - 2"	8	43.11 lb.
C 50511	5	5' - 11"	16	98.74 lb.
C 6067	6	6' - 7"	30	296.65 lb.
C 60711	6	7' - 11"	4	47.56 lb.
C 7076E	7	7' - 6"	8	122.64 lb.
C 8168	8	16' - 8"	12	534.00 lb.
C 9202	9	20' - 2"	8	548.53 lb.
4 Set C61010E	to	C61210E	10 Bars/Set	710.95 lb.
4 Set C6131E	to	C6139E	4 Bars/Set	322.43 lb.

SUB-TOTAL
 Reinforcing Steel 2,099.00 lb.
 Reinforcing Steel (Epoxy Coated) 1,171.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 7.08 C.Y.

PIER CAP - OUTSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
6094	6	9' - 4"	2	28.04 lb.
6122	6	12' - 2"	2	36.55 lb.
7122	7	12' - 2"	8	198.95 lb.
C 4054E	4	5' - 4"	4	14.25 lb.
C 5052	5	5' - 2"	8	43.11 lb.
C 50511	5	5' - 11"	16	98.74 lb.
C 6067	6	6' - 7"	22	217.54 lb.
C 60711	6	7' - 11"	2	23.78 lb.
C 6110E	6	11' - 0"	2	33.04 lb.
C 7074E	7	7' - 4"	8	119.91 lb.
C 7147	7	14' - 7"	8	238.47 lb.
C 8128	8	12' - 8"	12	405.84 lb.
2 Set C6108E	to	C6123E	6 Bars/Set	206.53 lb.
2 Set C6127E	to	C6137E	4 Bars/Set	157.21 lb.
2 Set C6135E	to	C6150E	6 Bars/Set	256.09 lb.
2 Set C6154E	to	C6164E	4 Bars/Set	190.25 lb.

SUB-TOTAL
 Reinforcing Steel 1,292.00 lb.
 Reinforcing Steel (Epoxy Coated) 978.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 5.42 C.Y.

REVISED 5/22/2023

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

QUANTITIES

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DATE : 6/7/2023

1 PIER CAP - OUTSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
6094	6	9' - 4"	2	28.04 lb.	
6122	6	12' - 2"	2	36.55 lb.	
7122	7	12' - 2"	8	198.95 lb.	
C 4054E	4	5' - 4"	4	14.25 lb.	
C 5052	5	5' - 2"	8	43.11 lb.	
C 50511	5	5' - 11"	16	98.74 lb.	
C 6067	6	6' - 7"	22	217.54 lb.	
C 60711	6	7' - 11"	4	47.56 lb.	
C 7076E	7	7' - 6"	8	122.64 lb.	
C 7147	7	14' - 7"	8	238.47 lb.	
C 8128	8	12' - 8"	12	405.84 lb.	
2 Set	C61010E	to	C6125E	6 Bars/Set	209.53 lb.
2 Set	C6129E	to	C6139E	4 Bars/Set	159.21 lb.

SUB-TOTAL
 Reinforcing Steel 1,315.00 lb.
 Reinforcing Steel (Epoxy Coated) 506.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 5.42 C.Y.

BOTTOM SLAB - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
42110	4	21' - 10"	62	904.25 lb.	
D 6179	6	17' - 9"	70	1,866.24 lb.	
2 Set	D6036	to	D61411	8 Bars/Set	221.29 lb.
2 Set	D6039	to	D6162	8 Bars/Set	239.32 lb.

SUB-TOTAL
 Reinforcing Steel 3,232.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 12.06 C.Y.

BOTTOM SLAB - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
42110	4	21' - 10"	46	670.89 lb.	
D 6139	6	13' - 9"	74	1,528.29 lb.	
2 Set	D6039	to	D61111	6 Bars/Set	141.19 lb.
2 Set	D6045	to	D61011	5 Bars/Set	115.15 lb.

SUB-TOTAL
 Reinforcing Steel 2,456.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 9.05 C.Y.

WEBS & END DIAPHRAGMS - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4164E	4	16' - 4"	12	130.93 lb.
4219	4	21' - 9"	20	290.58 lb.
S 4069E	4	6' - 9"	340	1,533.06 lb.
G 4070E	4	7' - 0"	36	168.34 lb.
G 8231	8	23' - 1"	20	1,232.65 lb.

SUB-TOTAL
 Reinforcing Steel 1,524.00 lb.
 Reinforcing Steel (Epoxy Coated) 1,833.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 7.87 C.Y. **1**

WEBS & END DIAPHRAGMS - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4122E	4	12' - 2"	12	97.53 lb.
4219	4	21' - 9"	16	232.46 lb.
S 4069E	4	6' - 9"	272	1,226.45 lb.
G 4070E	4	7' - 0"	28	130.93 lb.
G 8231	8	23' - 1"	16	986.12 lb.

SUB-TOTAL
 Reinforcing Steel 1,219.00 lb.
 Reinforcing Steel (Epoxy Coated) 1,455.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 5.90 C.Y. **1**

1 PIER CLOSURE - INSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4165	4	16' - 5"	3	32.90 lb.
6165	6	16' - 5"	4	98.63 lb.
C 5044	5	4' - 4"	64	289.26 lb.
C 5058	5	5' - 8"	4	23.64 lb.
C 6185E	6	18' - 5"	6	165.97 lb.

SUB-TOTAL
 Reinforcing Steel 445.00 lb.
 Reinforcing Steel (Epoxy Coated) 166.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 8.20 C.Y.

1 PIER CLOSURE - INSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4165	4	16' - 5"	2	21.93 lb.
6165	6	16' - 5"	4	98.63 lb.
C 5033	5	3' - 3"	64	216.94 lb.
C 5047	5	4' - 7"	4	19.12 lb.
C 7189E	7	18' - 9"	4	153.30 lb.

SUB-TOTAL
 Reinforcing Steel 357.00 lb.
 Reinforcing Steel (Epoxy Coated) 154.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 2.04 C.Y.
 Class EA Concrete, Modified (Major) 5.76 C.Y.

1 PIER CLOSURE - OUTSIDE WIDENING - PIERS 1 & 4 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4122	4	12' - 2"	3	24.38 lb.
6122	6	12' - 2"	4	73.10 lb.
C 5044	5	4' - 4"	48	216.94 lb.
C 5058	5	5' - 8"	4	23.64 lb.
C 6142E	6	14' - 2"	6	127.67 lb.

SUB-TOTAL
 Reinforcing Steel 339.00 lb.
 Reinforcing Steel (Epoxy Coated) 128.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 6.15 C.Y.

1 PIER CLOSURE - OUTSIDE WIDENING - PIERS 2 & 3 (EACH)(x2)

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4122	4	12' - 2"	2	16.25 lb.
6122	6	12' - 2"	4	73.10 lb.
C 5033	5	3' - 3"	48	162.71 lb.
C 5047	5	4' - 7"	4	19.12 lb.
C 7146E	7	14' - 6"	4	118.55 lb.

SUB-TOTAL
 Reinforcing Steel 272.00 lb.
 Reinforcing Steel (Epoxy Coated) 119.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 1.53 C.Y.
 Class EA Concrete, Modified (Major) 4.48 C.Y.

TOP SLAB - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
4318E	4	31' - 8"	22	465.37 lb.	
4600E	4	60' - 0"	66	2,645.28 lb.	
5045E	5	4' - 5"	314	1,446.47 lb.	
5199E	5	19' - 9"	487	10,031.83 lb.	
52110E	5	21' - 10"	64	1,457.42 lb.	
5282E	5	28' - 2"	8	235.02 lb.	
5600E	5	60' - 0"	24	1,501.92 lb.	
10300E	10	30' - 0"	40	5,163.60 lb.	
10370E	10	37' - 0"	40	6,368.44 lb.	
10376E	10	37' - 6"	40	6,454.50 lb.	
10435E	10	43' - 5"	40	7,472.88 lb.	
D 5055E	5	5' - 5"	287	1,621.43 lb.	
D 5070E	5	7' - 0"	83	605.98 lb.	
D 5090E	5	9' - 0"	204	1,914.95 lb.	
1 Set	50110E	to	5168E	10 Bars/Set	96.48 lb.
1 Set	50111E	to	5183E	11 Bars/Set	115.69 lb.
1 Set	5028E	to	5176E	10 Bars/Set	105.17 lb.
1 Set	5029E	to	5191E	11 Bars/Set	125.25 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 47,828.00 lb.
 Class EA Concrete, Modified (Major) 111.79 C.Y.

TOP SLAB - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
4318E	4	31' - 8"	18	380.76 lb.	
4600E	4	60' - 0"	54	2,164.32 lb.	
5045E	5	4' - 5"	316	1,455.68 lb.	
5159E	5	15' - 9"	489	8,032.93 lb.	
52110E	5	21' - 10"	48	1,093.06 lb.	
5282E	5	28' - 2"	8	235.02 lb.	
5600E	5	60' - 0"	24	1,501.92 lb.	
10300E	10	30' - 0"	32	4,130.88 lb.	
10370E	10	37' - 0"	32	5,094.75 lb.	
10376E	10	37' - 6"	32	5,163.60 lb.	
10435E	10	43' - 5"	32	5,978.30 lb.	
D 5055E	5	5' - 5"	288	1,627.08 lb.	
D 5070E	5	7' - 0"	83	605.98 lb.	
D 5090E	5	9' - 0"	205	1,924.34 lb.	
1 Set	5018E	to	5131E	8 Bars/Set	61.54 lb.
1 Set	5024E	to	5155E	9 Bars/Set	83.31 lb.
1 Set	5025E	to	51310E	8 Bars/Set	67.80 lb.
1 Set	5033E	to	5178E	8 Bars/Set	87.26 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 39,689.00 lb.
 Class EA Concrete, Modified (Major) 90.13 C.Y.

APPROACH SLAB - PHASE 1 - BEGIN BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
42311E	4	23' - 11"	30	479.29 lb.
4296E	4	29' - 6"	1	19.71 lb.
43010E	4	30' - 10"	54	1,112.22 lb.
5293E	5	29' - 3"	5	152.54 lb.
5296E	5	29' - 6"	1	30.77 lb.
53010E	5	30' - 10"	23	739.66 lb.
63010E	6	30' - 10"	2	92.62 lb.
7070E	7	7' - 0"	24	343.39 lb.
72311E	7	23' - 11"	60	2,933.14 lb.
AS 4020E	4	2' - 0"	30	40.08 lb.
AS 4041E	4	4' - 1"	30	81.83 lb.
AS 50210E	5	2' - 10"	29	85.70 lb.
AS 50610E	5	6' - 10"	29	206.69 lb.
D 5055E	5	5' - 5"	35	197.74 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 6,516.00 lb.
 Class EA Concrete, Modified (Major) 35.56 C.Y.

APPROACH SLAB - PHASE 1 - END BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4280E	4	28' - 0"	30	561.12 lb.
43010E	4	30' - 10"	55	1,132.82 lb.
5293E	5	29' - 3"	5	152.54 lb.
53010E	5	30' - 10"	28	900.46 lb.
63010E	6	30' - 10"	2	92.62 lb.
7070E	7	7' - 0"	28	400.62 lb.
7280E	7	28' - 0"	60	3,433.92 lb.
AS 4020E	4	2' - 0"	30	40.08 lb.
AS 4041E	4	4' - 1"	30	81.83 lb.
AS 50210E	5	2' - 10"	29	85.70 lb.
AS 50610E	5	6' - 10"	29	206.69 lb.
D 5055E	5	5' - 5"	40	225.98 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 7,315.00 lb.
 Class EA Concrete, Modified (Major) 39.85 C.Y.

1 REVISED 5/22/2023

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APPROACH SLAB - PHASE 2 - BEGIN BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4020DE	4	2' - 0"	24	32.06 lb.
4033E	4	3' - 3"	22	47.76 lb.
42311E	4	23' - 11"	48	766.86 lb.
4466E	4	46' - 6"	55	1,708.41 lb.
52311E	5	23' - 11"	2	49.89 lb.
54411E	5	44' - 11"	5	234.24 lb.
5446E	5	44' - 6"	24	1,113.92 lb.
6453E	6	45' - 3"	1	67.97 lb.
6460E	6	46' - 0"	1	69.09 lb.
72311E	7	23' - 11"	90	4,399.71 lb.
AS 4020E	4	2' - 0"	44	58.78 lb.
AS 4041E	4	4' - 1"	44	120.02 lb.
AS 50210E	5	2' - 10"	44	130.03 lb.
AS 50610E	5	6' - 10"	44	313.60 lb.
AS 50311E	5	3' - 11"	22	89.87 lb.
AS 6090E	6	9' - 0"	22	297.40 lb.
D 5055E	5	5' - 5"	35	197.74 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 9,666.00 lb.
 Reinforcing Steel (Epoxy Coated)(Doweled) 33.00 lb.
 Class EA Concrete, Modified (Major) 55.95 C.Y.

APPROACH SLAB - PHASE 2 - END BRIDGE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4020DE	4	2' - 0"	28	37.41 lb.
4033E	4	3' - 3"	27	58.62 lb.
4280E	4	28' - 0"	48	897.79 lb.
4466E	4	46' - 6"	54	1,677.35 lb.
4453E	4	45' - 3"	1	30.23 lb.
5280E	5	28' - 0"	2	58.41 lb.
54411E	5	44' - 11"	5	234.24 lb.
5446E	5	44' - 6"	27	1,253.16 lb.
5453E	5	45' - 3"	1	47.20 lb.
6453E	6	45' - 3"	1	67.97 lb.
6460E	6	46' - 0"	1	69.09 lb.
7280E	7	28' - 0"	90	5,150.88 lb.
AS 4020E	4	2' - 0"	44	58.78 lb.
AS 4041E	4	4' - 1"	44	120.02 lb.
AS 50210E	5	2' - 10"	44	130.03 lb.
AS 50610E	5	6' - 10"	44	313.60 lb.
AS 50311E	5	3' - 11"	27	110.30 lb.
AS 6090E	6	9' - 0"	27	364.99 lb.
D 5055E	5	5' - 5"	40	225.98 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 10,869.00 lb.
 Reinforcing Steel (Epoxy Coated)(Doweled) 38.00 C.Y.
 Class EA Concrete, Modified (Major) 62.83 C.Y.

BRIDGE RAIL - INSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4196E	4	19' - 6"	8	104.21 lb.
4205E	4	20' - 5"	8	109.11 lb.
4241E	4	24' - 1"	10	160.88 lb.
4256E	4	25' - 6"	16	272.54 lb.
42610E	4	26' - 10"	16	286.79 lb.
4281E	4	28' - 1"	16	300.15 lb.
4294E	4	29' - 4"	10	195.95 lb.
4318E	4	31' - 8"	2	42.31 lb.
4600E	4	60' - 0"	6	240.48 lb.
P 5085E	5	8' - 5"	362	3,177.85 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 4,891.00 lb.
 Class EA Concrete, Modified (Major) 33.24 C.Y. ¹

BRIDGE RAIL - OUTSIDE WIDENING

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT
4196E	4	19' - 6"	8	104.21 lb.
4205E	4	20' - 5"	8	109.11 lb.
4241E	4	24' - 1"	10	160.88 lb.
4246E	4	24' - 6"	16	261.86 lb.
42610E	4	26' - 10"	16	286.79 lb.
4281E	4	28' - 1"	10	187.60 lb.
4292E	4	29' - 2"	16	311.73 lb.
4318E	4	31' - 8"	2	42.31 lb.
4600E	4	60' - 0"	6	240.48 lb.
P 5085E	5	8' - 5"	362	3,177.85 lb.

SUB-TOTAL
 Reinforcing Steel (Epoxy Coated) 4,883.00 lb.
 Class EA Concrete, Modified (Major) 33.24 C.Y.

SOUTHBOUND TOTALS

Reinforcing Steel 65,977.00 lb.
 Reinforcing Steel (Epoxy Coated) 144,075.00 lb.
 Reinforcing Steel (Doweled) 1,564.00 lb.
 Class DA Concrete, Modified (Major) (Structures) 319.14 C.Y. ¹
 Class EA Concrete, Modified (Major) 483.10 C.Y. ¹

1 REVISSED 5/22/2023

GENERAL NOTES

- Design Specifications: AASHTO "LRFD Bridge Design Specifications" Eighth Edition 2017, AASHTO "Guide Specifications for LRFD Seismic Bridge Design" Second Edition 2011, with interims through 2015, and "NDOT Structures Manual" 2008, with interims through 2019, Seismic Retrofit designed in accordance with FHWA "Seismic Retrofitting Manual for Highway Structures: Part 1 Bridges" 2006.
- Construction Specifications: State of Nevada Department of Transportation "Standard Specifications for Road and Bridge Construction, 2014" except as noted below and in The Special Provisions of this Contract.
- Dead Load: In accordance with Specifications with an allowance of 38 psf for future wearing surface and 12 psf for stay-in-place deck formwork.
- Live Load: AASHTO HL-93 Loading. Overload design based on California "Standard Permit Design Vehicles" (Maximum Overload P-13 Truck). Deck Design based on the Equivalent Strip Method with a 40.0 kip axle.
- Seismic Load: PGA Coefficient = 0.50g, Short Period Coefficient (Ss) = 1.25g, Long Period Coefficient (S1) = 0.50g, Site Class C Soil Profile (SDC D). $\gamma_{ms} = 0.25$.
- Concrete: See Concrete Placement Schedule and Diagram for concrete class and compressive strengths.
- Reinforcing Steel: All reinforcing steel shall be ASTM A706. Reinforcing steel for precast girders may be A615 or A706. Dimensions relating to bar spacing are center to center. Bending dimensions are from out to out of the bars. Bar sizes three (3) to nine (9) are indicated by the first number of the mark; ten (10) or larger by the first two numbers. Bar marks with a letter prefix indicate a bent bar. Bar marks with a "D" suffix indicate a doweled bar. Bar marks ending with either the letter "E" or "ED" indicate that the bar shall be epoxy coated the length of the bar. Sizes four (4) and five (5), when considered as bars to control temperature, shrinkage, and distribution stresses by the Engineer, may be adjusted upon concurrence and approval of the Engineer.
- Doweled reinforcing steel: Reinforcing to be doweled in the existing concrete shall be epoxied in drilled holes with a maximum diameter equal to the bar diameter plus $\frac{1}{4}$ ". Holes shall be cleaned with oil free compressed air after drilling. Care shall be taken to avoid damaging existing reinforcing. Minimum embedment shall be 12" unless shown otherwise.
- Foundations: Piers shall be on drilled shaft foundations. For factored axial resistance, refer to Geotechnical Report from NewFields titled "Geotechnical Design Report, Phase 1B: US395 North Valleys, Washoe County, Nevada" dated February 2020.
- Camber: Camber shall be as shown on the Plans.
- Barrier Rail: Designed for TL-4.
- Construction Type Code: x271.
- Concrete construction joints designated as a "Permissible Joint" or as an "Optional Construction Joint" may be incorporated into the construction at the Contractor's option. Joints designated as a "Construction Joint" are considered mandatory and shall be incorporated into the construction unless otherwise approved in writing by the Bridge Design Engineer.
- Elevations and roadway profile information in these plans are approximate and are based on Contract 1286, adjusted to the survey datum for this project. Contractor to verify profile and elevations prior to construction to ensure a smooth roadway profile between new bridge deck and existing roadway. Any discrepancies shall be brought to the attention of the Engineer prior to construction.
- All dimensions are measured at 60 °F unless noted otherwise.
- Verification of Existing Conditions: Before ordering materials or commencing work on any item which may be affected by the dimensions or elevations of the existing structure, the Contractor shall field verify those dimensions and elevations and shall notify the Engineer of any field measured dimensions or elevations which deviate substantially from these plans prior to commencing the work. No direct payment will be made for field measurements.
- All exposed concrete surfaces of new and existing structures (excluding bridge deck) to receive stain or surface treatments as specified in the Landscape & Aesthetic Plans (Bid Item 212 0045). Finishes to extend one foot minimum below surface grade.
- Install $\frac{3}{4}$ " polymer concrete overlay to bridge deck and approach slabs. Polymer concrete shall be installed from face of rail to face of rail. Refer to Section 496 of the Contract Special Provisions.

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B210	Pier 2 Elevation
B211	Pier 3 Elevation
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B214	Isolation Casing Details, 2 of 2
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B218	Pier Cap Details
B219	Typical Section Inside Widening
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B226	CIP Girder Reinforcing
B227	Inside Widening Pier Closure Reinforcing
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B230	Inside Widening CIP Deck Reinforcing
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B232	Camber and Concrete Placement Diagrams
B233	NB Phase 1 Approach Slab Replacement
B234	SB Phase 1 Approach Slab Replacement
B235	NB Phase 2 Approach Slab Replacement
B236	SB Phase 2 Approach Slab Replacement
B237	Approach Slab Sections and Details
B238	Bridge Rail Spans 1 and 2
B239	Bridge Rail Spans 3 and 4
B240	Bridge Rail Details
B241	Expansion Joint Details
B242	Bent Bars, 1 of 2
B243	Bent Bars, 2 of 2
B244	Quantities, 1 of 5
B245	Quantities, 2 of 5
B246	Quantities, 3 of 5
B247	Quantities, 4 of 5
B248	Quantities, 5 of 5

QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	NB	SB	QUANTITY
202 0120	REMOVAL OF PORTION OF BRIDGE DECK	SQFT	7,020	7,020	14,040
202 0125	REMOVAL OF PORTION OF BRIDGE	LS	1	1	1
202 0160	REMOVAL OF EXPANSION JOINTS	LINFT	194	195	389
206 0110	STRUCTURE EXCAVATION	CUYD	510	527	1,037
207 0110	GRANULAR BACKFILL	CUYD	405	419	824
496 0130	BRIDGE DECK PREPARATION AND CONCRETE PLACEMENT	SOYD	2,351	1,601	3,951
496 0160	POLYMER CONCRETE AGGREGATE	POUND	165,277	112,559	277,836
496 0170	POLYMER CONCRETE RESIN	POUND	23,139	15,758	38,897
502 0360	CONCRETE BRIDGE DECK REPAIR	FA	1	1	1
502 0380	CONCRETE SUPERSTRUCTURE REPAIR	FA	1	1	1
502 0450	SEISMIC RETROFIT OF COLUMNS	LS	1	1	1
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)	CUYD	355	163	518
502 1010	CLASS EA CONCRETE, MODIFIED (MAJOR)	CUYD	695	365	1,060
502 1950	BRIDGE DECK CURING COMPOUND	GAL	162	112	274
502 2000	PREFORMED JOINT FILLER (2-INCH)	LINFT	387	275	662
503 0480	66-FOOT PRECAST CONCRETE MEMBERS	EACH	18	8	26
505 0100	REINFORCING STEEL	POUND	91,651	43,845	135,496
505 0120	REINFORCING STEEL (EPOXY COATED)	POUND	199,717	100,078	299,795
505 0130	REINFORCING STEEL (EPOXY COATED) (DOWELED)	POUND	280	93	373
506 0110	STRUCTURAL STEEL	POUND	41,175	28,913	70,088
509 0170	DRILLED SHAFT FOUNDATION (60-INCH)	LINFT	480	240	720

ABBREVIATIONS

Alt.	Alternate
Brg.	Bearing
Bot.	Bottom
C.G.	Center of Gravity
C.G.S.	Center of Gravity of Steel
CIP	Cast In Place
Clr.	Clear
CMP	Corrugated Metal Pipe
Col.	Column
Const. Jt.	Construction Joint
Dbl.	Double
Dia.	Diameter
Dim.	Dimension
Ea.	Each
E.F.	Each Face
Elev.	Elevation
EQ. Spa.	Equal Space
E.S.	Each Side
Exp.	Expansion
Ext.	Existing/Exterior
E.W.	Each Way
F.F.	Far Face
Fix.	Fixed
Galv.	Galvanized
I.D.	Inner Diameter
Int.	Interior/Intermediate
Jt.	Joint
LOL	Layout Line
Max.	Maximum
Min.	Minimum
N.F.	Near Face
O.D.	Outer Diameter
Opt.	Optional
P.G.	Profile Grade
Pr.	Pair
P.S.	Prestressing
PT	Post-Tensioning
Sect.	Section
Shld.	Shoulder
Spa.	Space
Spa. Var.	Spacing Varies
Sq.	Square
Typ.	Typical

STANDARD BAR LAPS

Bar Size	Uncoated (in)	Epoxy Coated (in)
#4	20	24
#5	24	30
#6	30	34
#7	38	45
#8	48	57
#9	60	72
#10	74	88
#11	90	108

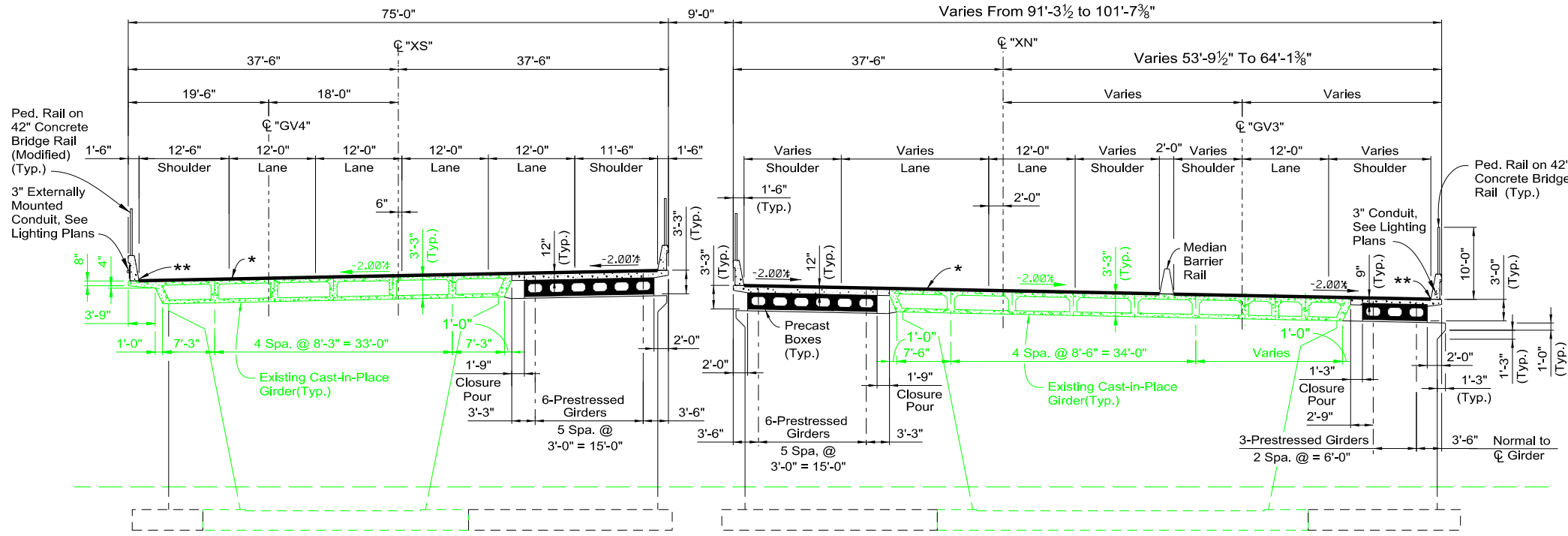
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND QUANTITIES

I-1093 N&S

1 REVISED 05/22/2023

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B401



GENERAL NOTES

- Design Specifications: AASHTO "LRFD Bridge Design Specifications" Eighth Edition 2017, AASHTO "Guide Specifications for LRFD Seismic Bridge Design" Second Edition 2011, with interims through 2015, and "NDOT Structures Manual" 2008, with interims through 2019. Seismic Retrofit designed in accordance with FHWA "Seismic Retrofitting Manual for Highway Structures: Part 1 Bridges" 2006.
- Construction Specifications: State of Nevada Department of Transportation "Standard Specifications for Road and Bridge Construction, 2014" except as noted below and in the Special Provisions of this Contract.
- Dead Load: In accordance with Specifications with an allowance of 38 psf for future wearing surface.
- Live Load: AASHTO HL-93 Loading. Overload design based on California "Standard Permit Design Vehicles" (Maximum Overload P-13 Truck). Deck Design based on the Equivalent Strip Method with a 40.0 kip axle.
- Seismic Load: PGA Coefficient = 0.50g, Short Period Coefficient (Ss) = 1.25g, Long Period Coefficient (S1) = 0.50g, Site Class C Soil Profile (Seismic Zone 3). $\gamma_w = 0.25$.
- Concrete: See Concrete Placement Schedule and Diagram for concrete class and compressive strengths.
- Reinforcing Steel: All reinforcing steel to be ASTM A706. Reinforcing steel for precast girders may be A615 or A706. Dimensions relating to bar spacing are center to center. Bending dimensions are from out to out of the bars. Bar sizes three (3) to nine (9) are indicated by the first number of the mark; ten (10) or larger by the first two numbers. Bar marks with a letter prefix indicate a bent bar. Bar marks with a "D" suffix indicate a doweled bar. Bar marks ending with either the letter "E" or "ED" indicate that the bar shall be epoxy coated the length of the bar. Sizes four (4) and five (5), when considered as bars to control temperature, shrinkage, and distribution stresses by the Engineer, may be adjusted upon concurrence and approval of the Engineer.
- Dowelled reinforcing steel: Reinforcing to be dowelled in the existing concrete shall be epoxied in drilled holes with a maximum diameter equal to the bar diameter plus 1/4". Holes shall be cleaned with oil free compressed air after drilling. Care shall be taken to avoid damaging existing reinforcing. Minimum embedment shall be 12" unless shown otherwise.
- Foundations: Piers and abutments shall be on spread footing foundations. For geotechnical information refer to Geotechnical Report from HDR titled "Geotechnical Design Report, US395 North Valleys, Washoe County, Nevada. Nevada Department of Transportation".
- Camber: Camber shall be as shown on the Plans.
- Bridge Rail: Designed for TL-4. Bridge Rail (Modified): Designed for Standard Specification loading.
- Construction Type Code: X181.
- Concrete construction joints designated as a "Permissible Joint" or as an "Optional Construction Joint" may be incorporated into the construction at the Contractor's option. Joints designated as a "Construction Joint" are considered mandatory and shall be incorporated into the construction unless otherwise approved in writing by the Bridge Design Engineer.
- Elevations and roadway profile information in these plans are approximate and are based on Contract 1286, adjusted to the survey datum for this project. Contractor to verify profile and elevations to ensure a smooth roadway profile between new bridge deck and existing roadway. Any discrepancies shall be brought to the attention of the Engineer prior to construction.
- All dimensions are measured at 60 °F unless noted otherwise.
- Verification of Existing Conditions: Before ordering materials or commencing work on any item which may be affected by the dimensions or elevations of the existing structure, the Contractor shall field verify those dimensions and elevations and shall notify the Engineer of any field measured dimensions or elevations which deviate substantially from these plans prior to commencing the work. No direct payment will be made for field measurements.
- All exposed concrete surfaces of new and existing structures (excluding bridge deck) to receive stain or surface treatments as specified in the Landscape & Aesthetic Plans. Finishes to extend one foot minimum below surface grade.
- Install 3/4" polymer concrete overlay to bridge deck and approach slabs. Polymer concrete shall be installed from face of rail to face of rail. Refer to Section 496 of the Contract Special Provisions.
- Design of temporary shoring as needed for maintaining the UPRR Minimum Construction Clearance Envelope shall satisfy UPRR-BNSF Guidelines for Temporary Shoring.
- Stay-in-place deck forms to be used at locations of closure pours.
- Deck Drainage shall be collected at roadway level, directed to a storm drain system and discharged away from UPRR Right-of-Way.

* - Polymer Concrete Overlay (See Note 18)
 ** - Collected Deck Drainage (See Note 21)

TYPICAL SECTION LAYOUT AT PIER
 LOOKING AHEAD ON LINE NORMAL TO ALIGNMENT

QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	G1748N QTY	G1748S QTY	TOTAL
202 0120	REMOVAL OF PORTION OF BRIDGE DECK	SQ.FT.	13,095	9,549	22,644
202 0125	REMOVAL OF PORTION OF BRIDGE	L.S.	1	1	2
202 0160	REMOVAL OF EXPANSION JOINTS	LIN.FT.	200	141	341
202 1270	REMOVAL OF SLOPE PAVING	SQ.YD.	2,899	2,376	5,275
206 0110	STRUCTURE EXCAVATION	CU.YD.	1,485	976	2,460
207 0110	GRANULAR BACKFILL	CU.YD.	1,077	702	1,779
496 0130	BRIDGE DECK PREPARATION AND CONCRETE PLACEMENT	SQ.YD.	2,992	1,996	4,988
496 0160	POLYMER CONCRETE AGGREGATE	POUND	262,911	175,401	438,312
496 0170	POLYMER CONCRETE RESIN	POUND	31,550	21,049	52,599
502 0360	CONCRETE BRIDGE DECK REPAIR	F.A.	1	1	2
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR)(STRUCTURES)	CU.YD.	704	443	1,147
502 1010	CLASS EA CONCRETE, MODIFIED (MAJOR)	CU.YD.	704	436	1,140
502 1950	BRIDGE DECK CURING COMPOUND	GAL	110	67	177
502 2020	PREFORMED JOINT FILLER (3-INCH)	LIN.FT.	282	193	475
503 0420	55 FOOT PRECAST CONCRETE MEMBERS	EACH	0	12	12
503 0440	58 FOOT PRECAST CONCRETE MEMBERS	EACH	6	0	6
503 0450	60 FOOT PRECAST CONCRETE MEMBERS	EACH	12	0	12
503 0510	70 FOOT PRECAST CONCRETE MEMBERS	EACH	0	6	6
503 0540	74 FOOT PRECAST CONCRETE MEMBERS	EACH	3	0	3
503 0560	78 FOOT PRECAST CONCRETE MEMBERS	EACH	6	0	6
505 0100	REINFORCING STEEL	POUND	100,502	61,897	162,399
505 0110	REINFORCING STEEL (DOWELED)	POUND	1,586	1,494	3,080
505 0120	REINFORCING STEEL (EPOXY COATED)	POUND	146,082	86,757	232,839
505 0130	REINFORCING STEEL (EPOXY COATED) (DOWELED)	POUND	183	0	183
506 0110	STRUCTURAL STEEL	POUND	1,514	981	2,495
506 0470	APPROACH SLAB RESTRAINER UNIT	EACH	142	98	240
506 0810	PEDESTRIAN RAIL, TYPE V (MODIFIED)	LIN.FT.	406	370	776
611 0120	CLASS AA CONCRETE SLOPE PAVEMENT	CU.YD.	216	192	408

SHEET INDEX

SHEET	DESCRIPTION
B400	US395 - WA 30.54 Panther Branch UPRR Overpass
B401	General Notes and Quantities
B402	Geometrics
B403	Railroad Coordination Plan
B404	Railroad Track Profiles
B405	Excavation and Backfill
B406	Bridge Construction Sequence
B407	Bridge Construction Phase 1 & 2
B408	Removal Details (1 of 2)
B409	Removal Details (2 of 2)
G1748N SHEETS	
B410	Abutment Footing Plan 1N & 2N
B411	Abutment Footing Details
B412	Abutment 1N West Plan & Elevation
B413	Abutment 1N East Plan & Elevation
B414	Abutment 2N West Plan & Elevation
B415	Abutment 2N East Plan & Elevation
B416	Abutment 1N & 2N Details (1 of 2)
B417	Abutment 1N & 2N Details (2 of 2)
B418	Wingwall Plan & Elevation (1 of 2)
B419	Wingwall Plan & Elevation (2 of 2)
B420	Pier 1N & 2N West Footing Details Plan & Sections
B421	Pier 1N & 2N East Footing Details Plan & Sections
B422	Pier 1N & 2N West Plan & Elevation
B423	Pier 1N & 2N East Plan & Elevation
B424	Pier 1N & 2N Wall Details (1 of 3)
B425	Pier 1N & 2N Wall Details (2 of 3)
B426	Pier 1N & 2N Wall Details (3 of 3)
B427	Deck Section
B428	Prestressed Girder Framing Plan (1 of 3)
B429	Prestressed Girder Framing Plan (2 of 3)
B430	Prestressed Girder Framing Plan (3 of 3)
B431	Prestressed Girder Details (1 of 2)
B432	Prestressed Girder Details (2 of 2)
B433	Tie Rod Details (1 of 2)
B434	Tie Rod Details (2 of 2)
B435	Deck Reinforcing
B436	Camber and Classification Diagrams
B437	Finish Grade Elevations (1 of 2)
B438	Finish Grade Elevations (2 of 2)
B439	Approach Slabs (1 of 3)
B440	Approach Slabs (2 of 3)
B441	Approach Slabs (3 of 3)
B442	Approach Slab Details
B443	Expansion Joint Details
B444	Barrier Rail
B445	Barrier Rail Details
B446	Pedestrian Rail Details
B447	Concrete Slope Paving
B448	Bent Bars (1 of 2)
B449	Bent Bars (2 of 2)
B450	Bill of Materials (1 of 3)
B451	Bill of Materials (2 of 3)
B452	Bill of Materials (3 of 3)

SHEET	G1748S SHEETS
B453	Abutment Footing Plan 1S & 2S
B454	Abutment Footing Details
B455	Abutment 1S Plan & Elevation
B456	Abutment 2S Plan & Elevation
B457	Abutment 1S & 2S Details
B458	Wingwall Plan & Elevation
B459	Pier 1S & 2S West Footing Details Plan & Sections
B460	Pier 1S & 2S East Footing Details Plan & Sections
B461	Pier 1S & 2S West Plan & Elevation
B462	Pier 1S & 2S East Plan & Elevation
B463	Pier 1S & 2S Wall Details (1 of 2)
B464	Pier 1S & 2S Wall Details (2 of 2)
B465	Deck Section
B466	Prestressed Girder Framing Plan (1 of 3)
B467	Prestressed Girder Framing Plan (2 of 3)
B468	Prestressed Girder Framing Plan (3 of 3)
B469	Prestressed Girder Details (1 of 2)
B470	Prestressed Girder Details (2 of 2)
B471	Tie Rod Details (1 of 2)
B472	Tie Rod Details (2 of 2)
B473	Deck Reinforcing
B474	Camber and Classification Diagrams
B475	Finish Grade Elevations
B476	Approach Slabs (1 of 2)
B477	Approach Slabs (2 of 2)
B478	Approach Slab Details
B479	Expansion Joint Details
B480	Barrier Rail
B481	Barrier Rail Details
B482	Pedestrian Rail Details
B483	Concrete Slope Paving
B484	Bent Bars (1 of 2)
B485	Bent Bars (2 of 2)
B486	Bill of Materials (1 of 2)
B487	Bill of Materials (2 of 2)

STANDARD BAR LAPS

Bar Size	Uncoated (in)	Epoxy Coated (in)
#4	20	24
#5	24	30
#6	30	34
#7	38	45
#8	48	57
#9	60	72
#10	74	88
#11	90	108

ABBREVIATIONS

Alt.	Alternate	E.S.	Each Side	Pr.	Pair
Abut.	Abutment	Exp.	Expansion	P.S.	Prestressing
Brg.	Bearing	Ext.	Existing / Exterior	PT	Post-Tensioning
Bot.	Bottom	E.W.	Each Way	Sect.	Section
C.G.	Center of Gravity	F.F.	Far Face	Shld.	Shoulder
C.G.S.	Center of Gravity of Steel	Fix.	Fixed	Spa.	Space
CIP	Cast In Place	Galv.	Galvanized	Spa. Var.	Spacing Varies
Clr	Clear	I.D.	Inner Diameter	Sq.	Square
CMP	Corrugated Metal Pipe	Int.	Interior / Intermediate	Typ.	Typical
Col.	Column	Jt.	Joint	Var.	Varies
Const. Jt.	Construction Joint	LOL	Layout Line		
Dbl.	Double	Max.	Maximum		
Dia.	Diameter	Min.	Minimum		
Dim.	Dimension	N.F.	Near Face		
Ea.	Each	O.D.	Outer Diameter		
E.F.	Each Face	Opt.	Optional		
Elev.	Elevation	Ped.	Pedestrian		
Eq. Spa.	Equal Space	P.G.	Profile Grade		



05/10/2022

ORIGINAL CONTRACT: 2243
 MODIFIED CONTRACT: 2983, DIST. 2 CONTRACT

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

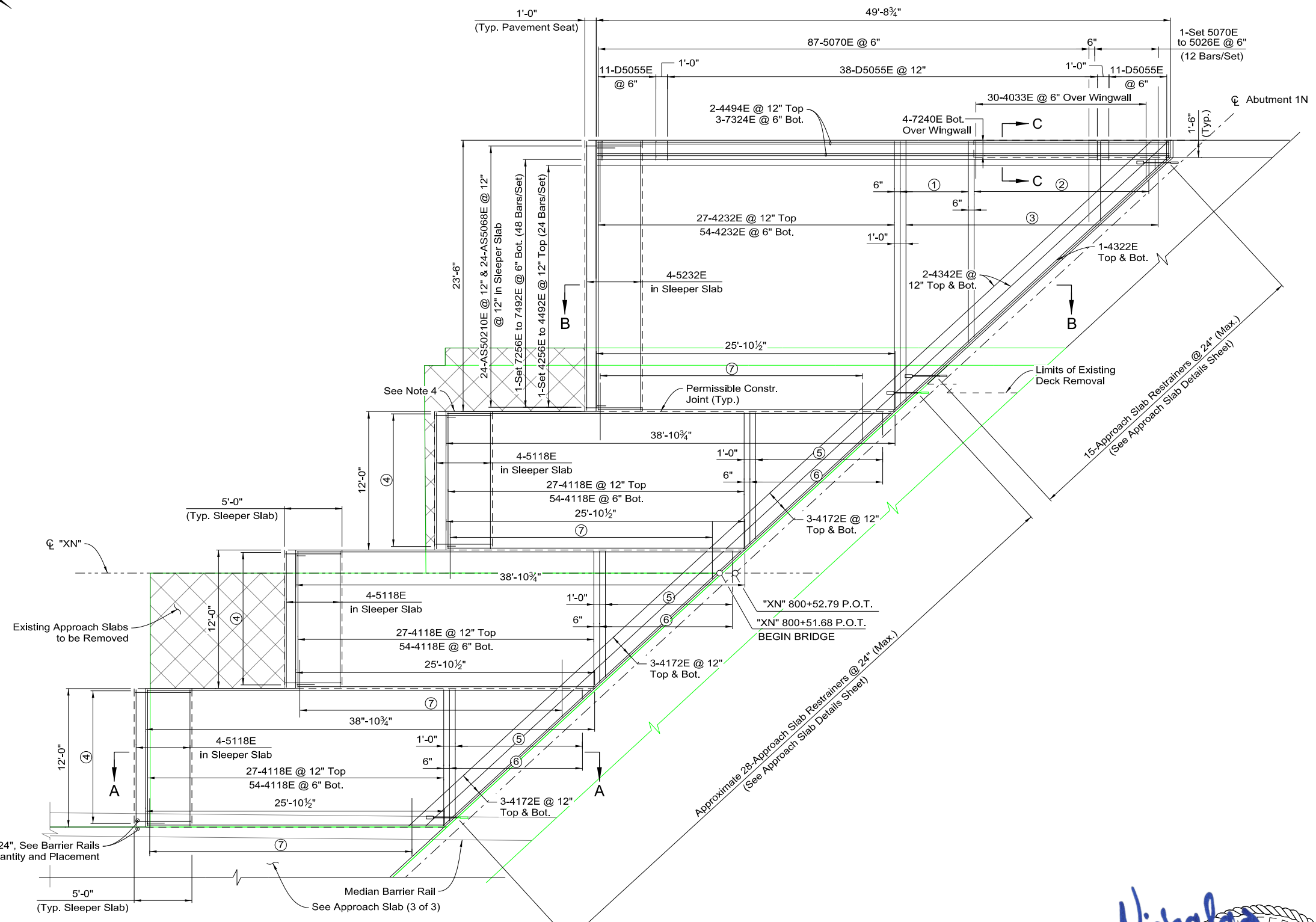
GENERAL NOTES AND QUANTITIES

G-1748 N&S

HDR Engineering, Inc. 8905 Double R Boulevard, Suite 101
 Reno, NV 89521-5917
 PH: 775-337-4700 FAX: 775-337-4774

1 REVISED 05/22/2023

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B439



- REINFORCING NOTES:**
- 1-Set 4228E to 4173E @ 6" Bot. (13 Bars/Set)
 - 1-Set 4153E to 4016E @ 6" Bot. (31 Bars/Set)
 - 1-Set 4222E to 4026E @ 12" Top (24 Bars/Set)
 - 1-Set 4257E to 4383E @ 12" Top (13 Bars/Set)
1-Set 7257E to 7383E @ 6" Bot. (26 Bars/Set)
13-AS5068E @ 12" & 13-AS50210E @ 12" in Sleeper Slab
 - 1-Set 4108E to 4016E @ 12" Top (11 Bars/Set)
 - 1-Set 4112E to 4016E @ 6" Bot. (22 Bars/Set)
 - 24-4050E @ 12" Top
48-4050E @ 6" Bot.
Center w/ Permissible Constr. Joint, (See Note 3)

- NOTES:**
- For sections, see Approach Slab Detail sheet.
 - Transverse dimensions are measured perpendicular to Construction ϕ .
 - Transverse reinforcing between permissible construction joints shall be placed prior to concrete placement.
 - Place 1/4-inch expansion joint material between the concrete pavement and the longitudinal face of the approach slab. The expansion joint material is to be recessed 1/2-inch from the surface and the joint sealed identically to the "longitudinal weakened plane joint" on detail CP-1 of the NDOT Standard Plans.

5ED Bars @ 24", See Barrier Rails Sheets for Quantity and Placement

PLAN



ORIGINAL CONTRACT: 2243
MODIFIED CONTRACT: 2983, DIST. 2 CONTRACT

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

APPROACH SLABS
(1 OF 3)

G-1748 N

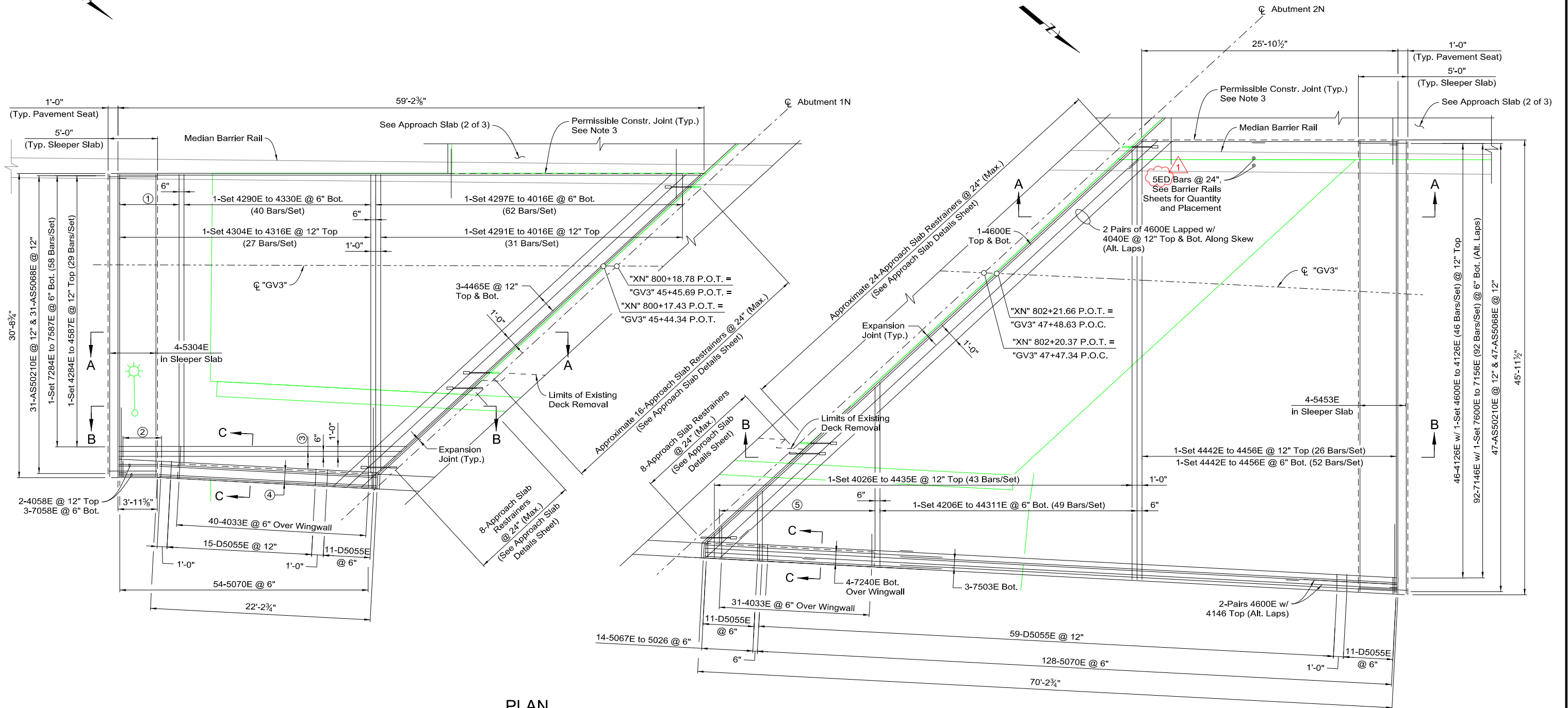
HDR
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5/22/2023

1 REVISED 05/22/2023

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B441



PLAN

NOTES:

- For sections, see Approach Slab Detail sheet.
- Transverse dimensions are measured perpendicular to Construction ϕ .
- Transverse reinforcing between permissible construction joints shall be placed prior to concrete placement.
- Place 1/4-Inch expansion joint material between the concrete pavement and the longitudinal face of the approach slab. The expansion joint material is to be recessed 1/2-inch from the surface and the joint sealed identically to the "longitudinal weakened plane joint" on detail CP-1 of the NDOT Standard Plans.

MINIMUM BAR LAPS

#4E Bars to #4E Bars = 24"
 #7E Bars to #7E Bars = 45"

- 13-4304E @ 6" Bot.
- 11-D5055E @ 6"
- 1-Set 4260E to 42710E @ 12" Max. Top (Splayed) (3 Bars/Set)
1-Set 7260E to 72710E @ 6" Max. Bot. (Splayed) (6 Bars/Set)
- 4-7240E Bot., 2-4240 @ 12" Top Over Wingwall
- 1-Set 4016E to 4186E @ 6" Bot. (36 Bars/Set)



5/22/2023

ORIGINAL CONTRACT: 2243
 MODIFIED CONTRACT: 2983, DIST. 2 CONTRACT

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

APPROACH SLABS
 (3 OF 3)

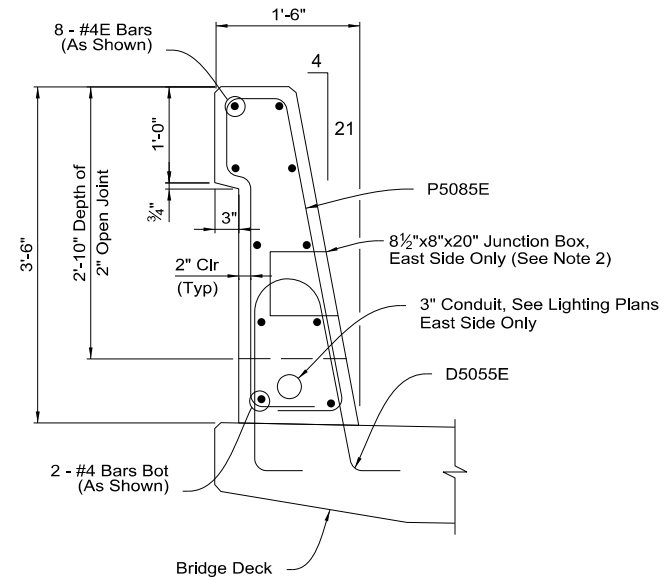
G-1748 N

HDR
 HDR Engineering, Inc.

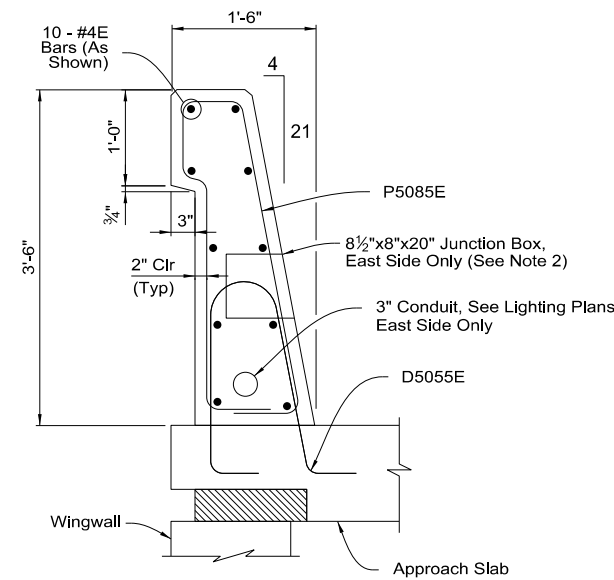
9805 Double R Boulevard, Suite 101
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1 REVISED 05/22/2023

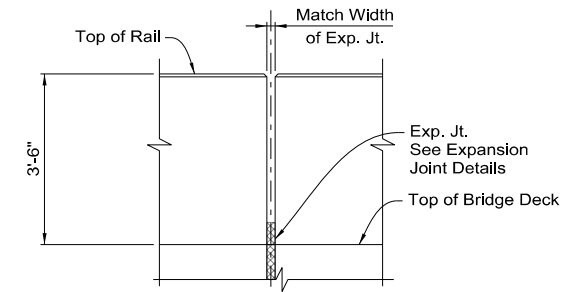
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B445



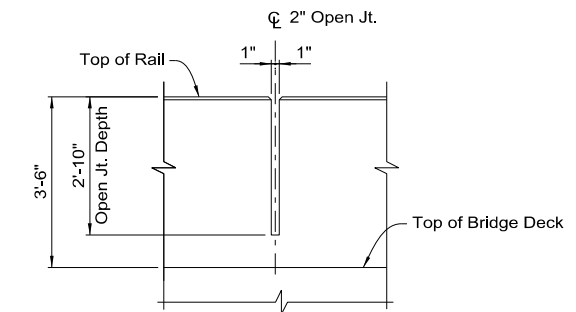
SECTION A-A



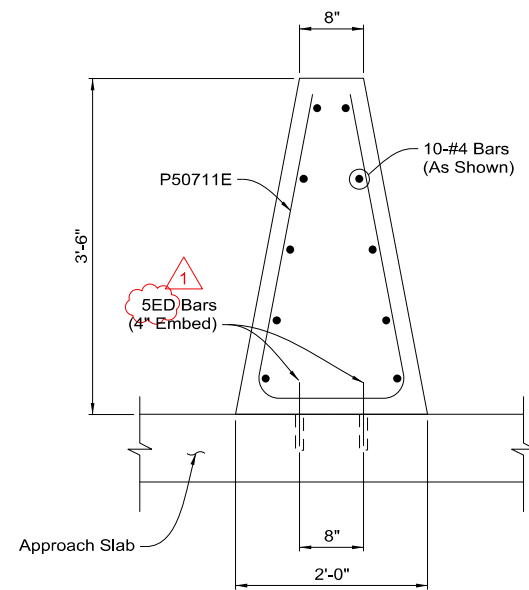
SECTION B-B



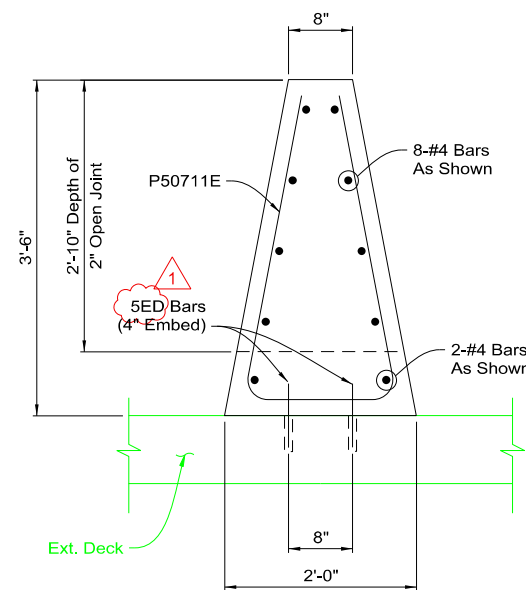
TYPICAL EXPANSION JOINT



2" OPEN JOINT DETAIL



SECTION C-C



SECTION D-D

NOTE:

1. For conduit passing through expansion joints, see Expansion Fitting Detail on sheet TG-9 of the NDOT Standard Plans for Road and Bridge Construction.
2. Relocate transverse reinforcement in barrier rail interrupted by junction box equally to each side.



ORIGINAL CONTRACT: 2243
MODIFIED CONTRACT: 2983, DIST. 2 CONTRACT

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**BARRIER RAIL
DETAILS**

G-1748 N

HDR
HDR Engineering, Inc.

9805 Double R Boulevard, Suite 101
Reno, NV 89521-5917
PH: 775-337-4700 FAX: 775-337-4774

1 REVISED 05/22/2023

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B452

DECK EAST

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT		
5496	E	5	49' - 6"	24	1,239.08 lb.	
10300	E	10	30' - 0"	24	3,098.16 lb.	
10600	E	10	60' - 0"	24	5,679.96 lb.	
5600	E	5	60' - 0"	24	1,501.92 lb.	
6137	E	6	13' - 7"	1	20.40 lb.	
6147	E	6	14' - 7"	1	21.90 lb.	
6155	E	6	15' - 5"	12	277.87 lb.	
1 Set	5023	E	to 5110	E	19 Bars/Set	131.29 lb.
51111	E	5	11' - 11"	375	4,660.91 lb.	
1 Set	50910	E	to 5014	E	18 Bars/Set	104.82 lb.
5050	E	5	5' - 0"	378	1,971.27 lb.	
5400	E	5	40' - 0"	4	166.88 lb.	
D 5091	E	5	9' - 1"	248	2,349.53 lb.	
1 Set	D 50410	E	to D 5091	E	9 Bars/Set	65.32 lb.
D 5055	E	5	5' - 5"	259	1,463.24 lb.	

Reinforcing Steel (Epoxy Coated) 22,753 lb.
Class EA Concrete, Modified (Major) 61.61 C.Y.

DECK CLOSURE POUR EAST

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
5496	E	5	49' - 6"	6	309.77 lb.
5300	E	5	30' - 0"	10	312.90 lb.
10300	E	10	30' - 0"	2	258.18 lb.
10600	E	10	60' - 0"	4	1,032.72 lb.
5600	E	5	60' - 0"	5	312.90 lb.
5400	E	5	40' - 0"	3	125.16 lb.

Reinforcing Steel (Epoxy Coated) 2,352 lb.
Class EA Concrete, Modified (Major) 9.11 C.Y.

ABUTMENT 1N APPROACH SLAB

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT		
AS 50210	E	5	2' - 10"	94	277.79 lb.	
AS 5068	E	5	6' - 8"	94	653.61 lb.	
1 Set	7256	E	to 7492	E	48 Bars/Set	3,662.85 lb.
1 Set	4256	E	to 4492	E	24 Bars/Set	598.53 lb.
4494	E	4	49' - 4"	2	65.91 lb.	
7324	E	7	32' - 4"	3	198.27 lb.	
7240	E	7	24' - 0"	8	392.45 lb.	
3 Set	7257	E	to 7383	E	26 Bars/Set	5,088.54 lb.
3 Set	4257	E	to 4383	E	13 Bars/Set	831.49 lb.
1 Set	7284	E	to 7587	E	58 Bars/Set	5,152.07 lb.
1 Set	4284	E	to 4587	E	29 Bars/Set	841.87 lb.
1 Set	7260	E	to 72710	E	6 Bars/Set	330.11 lb.
1 Set	4260	E	to 42710	E	3 Bars/Set	53.94 lb.
5232	E	5	23' - 2"	4	96.65 lb.	
5304	E	5	30' - 4"	4	126.55 lb.	
4232	E	4	23' - 2"	81	1,253.50 lb.	
1 Set	4228	E	to 4173	E	13 Bars/Set	173.32 lb.
1 Set	4153	E	to 4016	E	31 Bars/Set	173.43 lb.
1 Set	4222	E	to 4026	E	24 Bars/Set	197.73 lb.
4342	E	4	34' - 2"	4	91.29 lb.	
4322	E	4	32' - 2"	2	42.97 lb.	
5118	E	5	11' - 8"	12	146.02 lb.	
4118	E	4	11' - 8"	243	1,893.78 lb.	
4172	E	4	17' - 2"	18	206.41 lb.	
3 Set	4108	E	to 4016	E	11 Bars/Set	134.10 lb.
3 Set	4112	E	to 4016	E	22 Bars/Set	279.22 lb.
4304	E	4	30' - 4"	13	263.41 lb.	
1 Set	4290	E	to 4330	E	40 Bars/Set	828.32 lb.
1 Set	4297	E	to 4016	E	62 Bars/Set	643.67 lb.
1 Set	4304	E	to 4316	E	27 Bars/Set	557.61 lb.
1 Set	4291	E	to 4016	E	31 Bars/Set	316.66 lb.
4465	E	4	46' - 5"	6	186.04 lb.	
4058	E	4	5' - 8"	2	7.57 lb.	
7058	E	7	5' - 8"	3	34.75 lb.	
4240	E	4	24' - 0"	2	32.06 lb.	
4033	E	4	3' - 3"	70	151.97 lb.	
5070	E	5	7' - 0"	141	1,029.44 lb.	
1 Set	5070	E	to 5026	E	12 Bars/Set	59.45 lb.
4050	E	4	5' - 0"	288	961.92 lb.	
D 5055	E	5	5' - 5"	97	548.01 lb.	

Reinforcing Steel (Epoxy Coated) 28,584 lb.
Class EA Concrete, Modified (Major) 146.30 C.Y.

ABUTMENT 2N APPROACH SLAB

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT		
AS 50210	E	5	2' - 10"	110	325.07 lb.	
AS 5068	E	5	6' - 8"	110	764.87 lb.	
1 Set	7273	E	to 7509	E	48 Bars/Set	3,826.37 lb.
1 Set	4273	E	to 4509	E	24 Bars/Set	625.25 lb.
4272	E	4	27' - 2"	2	36.29 lb.	
7272	E	7	27' - 2"	4	222.11 lb.	
3 Set	7257	E	to 7383	E	26 Bars/Set	5,088.54 lb.
3 Set	4257	E	to 4383	E	13 Bars/Set	831.49 lb.
7146	E	7	14' - 6"	92	2,726.70 lb.	
1 Set	7600	E	to 7156	E	92 Bars/Set	7,098.81 lb.
4126	E	4	12' - 6"	46	384.10 lb.	
1 Set	4600	E	to 4126	E	46 Bars/Set	1,113.89 lb.
5232	E	5	23' - 2"	4	96.65 lb.	
5453	E	5	45' - 3"	4	188.78 lb.	
4232	E	4	23' - 2"	44	680.91 lb.	
4217	E	4	21' - 7"	40	576.71 lb.	
1 Set	4216	E	to 4016	E	44 Bars/Set	338.01 lb.
1 Set	42010	E	to 4016	E	23 Bars/Set	171.56 lb.
4342	E	4	34' - 2"	6	136.94 lb.	
5118	E	5	11' - 8"	12	146.02 lb.	
4118	E	4	11' - 8"	243	1,893.78 lb.	
4172	E	4	17' - 2"	18	206.41 lb.	
3 Set	4108	E	to 4016	E	11 Bars/Set	134.10 lb.
3 Set	4112	E	to 4016	E	22 Bars/Set	279.22 lb.
1 Set	4442	E	to 4456	E	52 Bars/Set	1,557.33 lb.
1 Set	4016	E	to 4186	E	36 Bars/Set	240.48 lb.
1 Set	4206	E	to 44311	E	49 Bars/Set	1,054.24 lb.
1 Set	4442	E	to 4456	E	26 Bars/Set	778.67 lb.
1 Set	4026	E	to 4435	E	43 Bars/Set	659.46 lb.
4600	E	4	60' - 0"	8	320.64 lb.	
4040	E	4	4' - 0"	4	10.69 lb.	
4146	E	4	14' - 6"	2	19.37 lb.	
7503	E	7	50' - 3"	3	308.13 lb.	
7240	E	7	24' - 0"	4	196.22 lb.	
4033	E	4	3' - 3"	71	154.14 lb.	
5070	E	5	7' - 0"	184	1,343.38 lb.	
1 Set	5067	E	to 5026	E	14 Bars/Set	66.32 lb.
4050	E	4	5' - 0"	288	961.92 lb.	
D 5055	E	5	5' - 5"	119	672.30 lb.	

Reinforcing Steel (Epoxy Coated) 36,236 lb.
Class EA Concrete, Modified (Major) 181.92 C.Y.

BARRIER RAIL WEST

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
43110	E	4	31' - 10"	8	170.12 lb.
4600	E	4	60' - 0"	6	240.48 lb.
4320	E	4	32' - 0"	8	171.01 lb.
4406	E	4	40' - 6"	16	432.86 lb.
4302	E	4	30' - 2"	16	322.42 lb.
4400	E	4	40' - 0"	2	53.44 lb.
4494	E	4	49' - 4"	10	329.55 lb.
4272	E	4	27' - 2"	10	181.47 lb.
P 5085	E	5	8' - 5"	367	3,221.74 lb.

Reinforcing Steel (Epoxy Coated) 5,124 lb.
Class EA Concrete, Modified (Major) 36.40 C.Y.

BARRIER RAIL MIDDLE

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
4258	E	4	25' - 8"	5	85.73 lb.
4275	E	4	27' - 5"	5	91.57 lb.
4310	E	4	31' - 0"	12	248.50 lb.
4331	E	4	33' - 1"	4	88.40 lb.
42910	E	4	29' - 10"	4	79.71 lb.
4401	E	4	40' - 1"	16	428.41 lb.
43011	E	4	30' - 11"	12	247.83 lb.
4600	E	4	60' - 0"	6	240.48 lb.
4350	E	4	35' - 0"	2	46.76 lb.
4262	E	4	26' - 2"	5	87.40 lb.
4246	E	4	24' - 6"	5	81.83 lb.
5008	ED	5	0' - 8"	262	182.18 lb.
P 50711	E	5	7' - 11"	261	2,155.10 lb.

Reinforcing Steel (Epoxy Coated) 3,882 lb.
Reinforcing Steel (Epoxy Coated)(Doweled) 183 lb.
Class EA Concrete, Modified (Major) 45.14 C.Y.

BARRIER RAIL EAST

BAR MARK	SIZE	LENGTH	NO. BARS	WEIGHT	
4288	E	4	28' - 8"	16	306.39 lb.
4384	E	4	38' - 4"	16	409.71 lb.
4301	E	4	30' - 1"	16	321.53 lb.
4600	E	4	60' - 0"	6	240.48 lb.
4220	E	4	22' - 0"	2	29.39 lb.
4258	E	4	25' - 8"	10	171.45 lb.
4364	E	4	36' - 4"	20	485.41 lb.
P 5085	E	5	8' - 5"	377	3,309.53 lb.

Reinforcing Steel (Epoxy Coated) 5,274 lb.
Class EA Concrete, Modified (Major) 37.48 C.Y.

Totals	Quantity	Unit
Reinforcing Steel	100,502.00	lb.
Reinforcing Steel (Doweled)	1,586.00	lb.
Reinforcing Steel (Epoxy Coated)	146,082.00	lb.
Reinforcing Steel (Epoxy Coated)(Doweled)	183.00	lb.
Class DA Concrete, Modified (Major)(Structures)	703.49	C.Y.
Class EA Concrete, Modified (Major)	703.67	C.Y.



ORIGINAL CONTRACT: 2243
MODIFIED CONTRACT: 2983, DIST. 2 CONTRACT

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS
(3 OF 3)

G-1748 N

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