



STOREY COUNTY BOARD OF COUNTY COMMISSIONERS MEETING

TUESDAY, APRIL 19, 2016 10:00 A.M.

DISTRICT COURTROOM

26 SOUTH B STREET, VIRGINIA CITY, NEVADA

AGENDA

MARSHALL MCBRIDE
CHAIRMAN

ANNE LANGER
DISTRICT ATTORNEY

LANCE GILMAN
VICE-CHAIRMAN

JACK MCGUFFEY
COMMISSIONER

VANESSA STEPHENS
CLERK-TREASURER

Members of the Board of County Commissioners also serve as the Board of Fire Commissioners for the Storey County Fire Protection District, Storey County Brothel License Board, Storey County Water and Sewer System Board and the Storey County Liquor and Gaming Board and during this meeting may convene as any of those boards as indicated on this or a separately posted agenda.

All items include discussion and possible action to approve, modify, deny, or continue unless marked otherwise.

1. CALL TO ORDER REGULAR MEETING AT 10:00 A.M.
2. PLEDGE OF ALLEGIANCE
3. DISCUSSION/POSSIBLE ACTION: Approval of Agenda for April 19, 2016
4. DISCUSSION/POSSIBLE ACTION: Approval of Minutes for March 15, 2016

CONSENT AGENDA

(All matters listed under the consent agenda are considered routine, and may be acted upon by the Board of County Commissioners with one action, and without an extensive hearing. Any member of the Board or any citizen may request that an item be taken from the consent agenda, discussed, and acted upon separately during this meeting. The Commission Chair reserves the right to limit the time allotted for each individual to speak.)

5. For possible action approval of Payroll Checks date 3/30/16 for \$4,844.54, date 4/07/16 for \$120,306.05, date 4/07/16 for \$72,346.63 and 4/08/19 for \$470,416.41. Accounts Payable Checks date 4/01/16 for \$1,242,086.42 (not including check 85107) and date 4/05/16 for \$28,828.08.

6. For possible action approval of the Justice Court Quarterly report.
7. For possible action approval of Treasurer report for March 2016
8. Correspondence
 - A. Storey County Fire Protection District Monthly Report
9. For possible action approval of Business Licenses First Readings:
 - A. **FERNTUCKY BBQ** - General / 4520 Glenwood Drive ~ Fernley (Food Truck)
 - B. **ANCHOR DOOR & HARDWARE, INC.** - Contractor / 335 Edison Way ~ Reno (doors, frames cont.)
 - C. **WIRTZ MFG. CO., INC.** - Contractor / 1105 24th St ~ Port Huron, MI (equipment setting)
 - D. **GREG A. BAILOR** - Contractor / 405 Sparrow Way ~ Carson City (drywall & painting contractor)
 - E. **ENHANCED ELECTRICAL SERVICES, INC.** - Contractor / 888 Deming ~ Sparks (elect cont.)
 - F. **IT'S MY COMMUNITY STORE, LLC** - General / 1140 Financial Blvd ~ Reno (office supply sales)
 - G. **ENVIRONMENTAL WATER SOLUTIONS, INC.** - Contractor / 1162 E. Dominguez ~ Carson, CA (equip. svcs.)
 - H. **STANLEY ACCESS TECH, LLC** - Contractor / 6225 S Valley Blvd ~ Las Vegas (automatic doors)
 - I. **CHIKUSHI ELECTRIC CO., LTD.** - Contractor / Amagasaki, JAPAN (machine installation)
 - J. **AQUA TECH CO., LTD.** - Contractor / Fukuoka, JAPAN (machine installation)
 - K. **ENVIROTROL, LLC** - Contractor / 114 Landmark Dr., ~ Greensboro, NC (hvac contractor)
 - L. **CAPSTONE LOGISTICS, LLC** - Contractor / 6325 The Corners Pkwy ~ Peachtree Corners, GA (warehouse services)
 - M. **SWITCH BUSINESS SOLUTIONS, LLC** - General / 1705 Peru Drive TRI
 - N. **SWITCH, LTD** - General / 1705 Peru Drive TRI
 - O. **SWITCH RIG, LLC** - General / 1705 Peru Drive TRI

END OF CONSENT AGENDA

10. **DISCUSSION ONLY (No Action - No Public Comment):** Committee/Staff
11. **BOARD COMMENT (No Action - No Public Comment)**
12. **DISCUSSION/POSSIBLE ACTION:** Approval and acceptance of a National Park Service Land and Water Conservation Grant award in the amount of \$30,000.00 for replacement of Playground Equipment and Improved Amenities at Miners Park and authorization for Cherie Nevin to sign all associated grant documentation.

13. **DISCUSSION/POSSIBLE ACTION:** Consideration and possible approval of indenture from Union Pacific Railroad Company amending and restating the grant of a right to construct, reconstruct, maintain and use the Mustang Ranch underpass where it crosses the railroad right of way.
14. **DISCUSSION/POSSIBLE ACTION:** Approval of check 85107 to the Bucket of Blood Saloon in the amount of \$4,500.00 for parking lot lease.
15. **DISCUSSION/POSSIBLE ACTION:** Consideration and possible approval of interlocal agreement between Storey County, State Public Works Division and Nevada Department of Transportation regarding replacement of a portion of the water pipeline crossing under US Highway 580 carrying water from the Marlette Lake Water System to Storey County.
16. **DISCUSSION/POSSIBLE ACTION:** Consider appointment of Board Member to attend Supreme Court settlement conference in the Malfitano case.
17. **RECESS TO CONVENE AS THE STOREY COUNTY LIQUOR BOARD**
18. **DISCUSSION/POSSIBLE ACTION:** Approval of the second reading of the Café Del Rio's (Brian Shaw) request for a Cabaret license as an addendum to the current license.
19. **RECESS TO CONVENE AS THE STOREY COUNTY BROTHEL LICENSE BOARD**
20. **DISCUSSION/POSSIBLE ACTION:** Work card appeal/revocation hearing for Dine Maria Petrone, Sade M. Flatts and Michelle Tanguay.
21. **RECESS TO RECONVENE AS THE STOREY COUNTY BOARD OF COMMISSIONERS**

COMMUNITY DEVELOPMENT AND PLANNING

22. FOR POSSIBLE ACTION, LICENSING BOARD SECOND READINGS:

- A. **PHO REAL, LLC** - General / 4047 Zermatt Road ~ Tahoe City, CA (Food Truck)
- B. **PROCLEAN MAINTENANCE, INC. dba PCM Bldg Svcs** - Contractor / 4587 Longley ~ Reno (cleaning)
- C. **PAMPA TECHNOLOGIES, LLC** - Contractor / 3 Waters Park Drive ~ San Mateo, CA (IT Contractor)
- D. **TAIKISHA, LTD** - Contractor / Tokyo, JAPAN (Equipment Installation Contractor)
- E. **SATO CO., LTD** - Contractor / Kyoto, JAPAN (Equipment Installation Contractor)
- F. **I TRUST JAPAN** - Contractor / Osaka, JAPAN (Equipment Installation Contractor)
- G. **MIRAPRO CO., LTD** - Contractor / Yamanashi, JAPAN (Equipment Installation Contractor)
- H. **DAIKOU KOUKI CO., LTD.** - Contractor / Kyoto, JAPAN (Equipment Installation Contractor)
- I. **AIR PRODUCTS & CHEMICALS, INC., --** Contractor / 7201 Hamilton Blvd., ~ Allentown, PA (Fuel Supplier)
- J. **LEADING 2 LEAN, LLC** - Contractor / 88 Deer Pass Road ~ Wellington, NV (IT Contractor)
- K. **RISHA ENGINEERING GROUP** - Professional / 410 Cypress Ave ~ Burbank, CA (Engineering)

- L. **NASON'S SCANNING SERVICE, LLC** - Contractor / 1187 Rancho Mirage ~ Sparks (Concrete Scanning)
- M. **FACILITIES PROTECTION SYSTEMS** - Contractor / 1150 W. Central ~ Brea, CA (Fire Protection)
- N. **BERGELECTRIC CORP., --** Contractor / 5650 W. Centinela ~ Los Angeles (Electrical Contractor)
- O. **LAWSON DRAYAGE, INC., --** Transportation / 3402 Enterprise ~ Hayward, CA (Transportation, Rigging)
- P. **K B L REINFORCING, INC., --** Contractor / 4660 S. Eastern ~ Las Vegas (Rebar Installer)
- Q. **TRICOM NETWORKS, INC.** - Contractor / 24335 Prielipp Road ~ Wildomar, CA (Telecom Contractor)
- R. **ENDRESS & HAUSER, INC.** - Contractor / 2350 Endress Place ~ Greenwood, IN (Instrumentation Cont.)
- S. **SANDEX, INC.** - Contractor / 4768 West 1400 South ~ Cedar City, UT (Drill & Blasting Contractor)
- T. **J.E. PEEBLES FIREARMS INSTRUCTOR** - General / 349 Occidental Dr. ~ Dayton (CCW Instructor)
- U. **AMES CONSTRUCTION, INC. -- Contractor / 1705 Peru Dr. (Contractor) TRI**
- V. **TURNING POINT, INC. - General / 55 North C Street (Evaluation Services) VC**
- W. **STONCOR GROUP, INC. - Contractor / 1000 East Park Ave ~ Maple Shade, NJ (Epoxy Flooring Cont.)**
- X. **NATIONAL HIGH VOLTAGE SERVICES, INC. - Contractor / 4530 Winter Oak ~ Antelope, CA (Electrical Inspection Service)**
- Y. **UHK ENTERPRISES dba Snap-On Tools** - General / 7435 Indian Springs ~ Sparks (Mobile Tool Sales)
- Z. **DIVIDE FITNESS, INC. - General / 800 South C Street (Fitness Facility) VC**
- AA. **BI NUTRACEUTICALS** - General / 625 Waltham Way TRI

23. PUBLIC COMMENT (No Action)

24. ADJOURNMENT

NOTICE:

- Anyone interested may request personal notice of the meetings.
- Agenda items must be received in writing by 12:00 noon on the Monday of the week preceding the regular meeting. For information call (775) 847-0969.
- Items may not necessarily be heard in the order that they appear.
- Public Comment will be allowed at the end of each meeting (this comment should be limited to matters not on the agenda). Public Comment will also be allowed during each item upon which action will be taken on the agenda (this comment should be limited to the item on the agenda). Time limits on Public Comment will be at the discretion of the Chairman of the Board. Please limit your comments to three minutes.
- Storey County recognizes the needs and civil rights of all persons regardless of race, color, religion, gender, disability, family status, or nation origin.
- In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from

discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotope, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at http://www.ascr.usda.gov/complaint_filing_cust.html and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by:

- (1) mail: U.S. Department of Agriculture
Office of the Assistant Secretary for Civil Rights
1400 Independence Avenue, SW
Washington, D.C. 20250-9410;
- (2) fax: (202) 690-7442; or
- (3) email: program.intake@usda.gov.

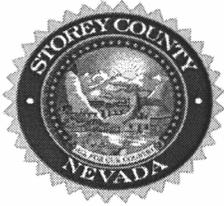
USDA is an equal opportunity provider, employer, and lender.

Notice to persons with disabilities: Members of the public who are disabled and require special assistance or accommodations at the meeting are requested to notify the Commissioners' Office in writing at PO Box 176, Virginia City, Nevada 89440.

CERTIFICATION OF POSTING

I, Vanessa Stephens, Clerk to the Board of Commissioners, do hereby certify that I posted, or caused to be posted, a copy of this agenda at the following locations on or before April 14, 2016; Virginia City Post Office at 132 S C St, Virginia City, NV, the Storey County Courthouse located at 27 S B St, Virginia City, NV, the Virginia City Fire Department located at 145 N C St, Virginia City, NV, the Virginia City Highlands Fire Department located at 2610 Cartwright Rd, VC Highlands, NV and Lockwood Fire Department located at 431 Canyon Way, Lockwood, NV.

By  _____
Vanessa Stephens Clerk-Treasurer



Storey County Board of County Commissioners Agenda Action Report

Meeting date: April 19, 2016

Estimate of time required: 5 min.

Agenda: Consent [] Regular agenda [X] Public hearing required []

1. **Title:** Approval of minutes for March 15, 2016

2. **Recommended motion:** Approve minutes as submitted.

3. **Prepared by:** Vanessa Stephens

Department: Clerk & Treasurer

Telephone: 775 847-0969

4. **Staff summary:** Minutes are attached.

5. **Supporting materials:** Attached.

6. **Fiscal impact:** N/A

Funds Available:

Fund:

_____ Comptroller

7. **Legal review required:** N/A

_____ District Attorney

8. **Reviewed by:**

VS Department Head

Department Name: Clerk & Treasurer

[Signature] County Manager

Other agency review: _____

9. **Board action:**

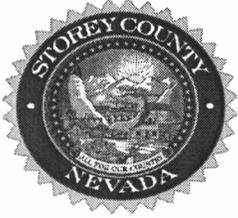
Approved

Approved with Modifications

Denied

Continued

Agenda Item No. 4



STOREY COUNTY BOARD OF COUNTY COMMISSIONERS MEETING

TUESDAY, MARCH 15, 2016 10:00 A.M.

DISTRICT COURTROOM
26 SOUTH B STREET, VIRGINIA CITY, NEVADA

MINUTES

MARSHALL MCBRIDE
CHAIRMAN

ANNE LANGER
DISTRICT ATTORNEY

LANCE GILMAN
VICE-CHAIRMAN

JACK MCGUFFEY
COMMISSIONER

VANESSA STEPHENS
CLERK-TREASURER

Roll Call: Chairman McBride, Vice Chairman Gilman, Commissioner McGuffey, District Attorney Anne Langer, County Manager Pat Whitten, Administrative Officer/Planning Director Austin Osborne, Deputy Clerk Wendy Bacus, Outside Counsel Robert Morris, Community Development Director Dean Haymore, Fire Chief Gary Hames, Tourism Director Deny Dotson, Planner Jason VanHavel

1. **CALL TO ORDER REGULAR MEETING AT 10:00 A.M.**
The meeting was called to order by the Chair at 10:00 A.M.
2. **PLEDGE OF ALLEGIANCE**
The Chair led those present in the Pledge of Allegiance
3. **DISCUSSION/POSSIBLE ACTION:** Approval of Agenda for March 15, 2016

Motion: Approve the Agenda for March 15, 2016, **Action:** Approve, **Moved by:** Vice Chair Gilman, **Seconded by:** Commissioner McGuffey, **Vote:** Motion carried by unanimous vote, **(Summary:** Yes=3)

CONSENT AGENDA

4. For possible action approval of Payroll Checks date 02/26/16 for \$382,147.31, date 02/29/16 for \$2,698.67 and date 3/04/16 for \$121,997.52 and \$75,404.04. Accounts Payable Checks date 03/4/16 for \$519,398.53 and \$5,970.31.
5. For possible action approval of Treasurer Report for February 2016
6. Correspondence:

A. Monthly report from Storey County Fire Protection District

7. For possible action approval of Business Licenses First Readings:

- A. **3D CONCRETE, INC. - Mining/ 655 Peru Drive TRI**
- B. **FRANK M. BOOTH - Contractor / 222 Third St. ~ Marysville, CA (contractor)**
- C. **HORROCKS ENGINEERS, INC. - Contractor / 2162 W.Grove Pkwy. Ste.400 ~ Pleasant Grove , UT (Consultant Civil Engineering Services)**
- D. **RED HAWK FIRE & SECURITY - Contractor / 5100 Town Center Circle Ste 350 ~ Freemont , CA (Fire and Life Safety)**
- E. **SUNSTATE EQUIPEMENT CO., LLC - Contractor / 5552 E Washington St. ~ Phoenix, CA (Deliveries, Construction equipment rentals)**
- F. **SYNERGY CONSTRUCTION, LLC. - Contractor / 4730 S Ft. Apache Rd Ste.300 ~ Las Vegas, NV (Construction)**
- G. **NEFAB PACKING WEST, LLC - Contractor / 8477 Central Ave ~ Newark, CA (manufacturing)**
- H. **DAMON INDUSTRIES dba Service World - General / 822 Packer Way ~ Sparks (Juice Sales & Service)**
- I. **ADAMS & GARTH, INC. - General /7130 Glen Forest Dr. Ste.110 ~ Richmond , VA (Staffing & Recruiting)**
- J. **AIRGAS USA, LLC - Contractor / 3737 Worsham Ave ~ Long Beach, CA (welding Supplies, medical Supplies)**
- K. **REDS FIRE & FLOOD - Contractor / 2410 Walnut St ~ Reno (Construction Repair)**
- L. **TESLA MOTORS NV, INC. - General / 420 USA Pkwy. ~ (Service Electrical Motors)TRI**
- M. **PRODUCTION INNOVATION - General / 287 Belblossom Way ~ Los Gatos, CA (Sales & Consulting.)**
- N. **EC COMPANY -- Contractor / PO Box 10286 ~ Portland, OR (Construction & Resale of Generators)**

END OF CONSENT AGENDA

Motion: Approve the Consent Agenda for March 15, 2016, **Action:** Approve, **Moved by:** Vice Chair Gilman, **Seconded by:** Commissioner McGuffey, **Vote:** Motion carried by unanimous vote, (**Summary:** Yes=3)

8. **DISCUSSION ONLY (No Action - No Public Comment):** Committee/Staff

Tourism Director Deny Dotson:

- The Rocky Mountain Oyster Fry and St. Patrick's Day Parade events were held this weekend. The Oyster Fry is an old event held in a new location. A few issues came up that will be resolved. Over all it was a great time.
- 150 cases of Cemetery Gin have been sold with proceeds of \$1,800 being given to the Cemetery Association. Sales will be ramped up for the summer.
- The VCTC met and approved the tentative budget which will be presented to the Board at the next meeting.

Community Development Director Dean Haymore:

- A "ribbon cutting ceremony" was held for the opening of Dr. Eberle's office, a dentist located in TRI.

- Community Development is working to get commercial support companies, such as hotels and restaurants, to locate in the industrial center.
- Working with several companies already in TRI who are building additional facilities. Storey County is probably one of the busiest counties in the country.
- Work to refurbish Gold Hill Depot is continuing.
- Plans are being made for stairs on Taylor Street and repairs are being made on a couple of other projects in town.

Planner Jason VanHavel:

- Verizon and T-Mobile have shown interest in the cell tower in Virginia Highlands but have not committed to anything at this time. Verizon's budget is directed to increasing capacity not coverage. T-Mobile has budget issues which have been problematic for effective expectation. AT&T may come in in the future.

Chairman McBride commented that AT&T is a lost cause and acknowledged there are potential public safety issues in the Highlands due to lack of cell service. Highlands residents are concerned about when they will receive cell service.

Administrative Officer Austin Osborne:

- Concerning the tower in the Highlands, a finding for its approval was the 1996 Telecommunications Act, almost mandating counties to allow these devices in rural areas. It is hoped that Verizon or AT&T, or whoever is looking at this, is looking at the potential for federal grants. This was the purpose for providing that (Highlands) cell tower.
- It is currently open enrollment period for health benefits for employees and retirees. Each year the plans are assessed and changes are made as needed. Various options have been considered and will be presented to County employees at mandatory meetings to be held on March 29 and March 31.

Deputy District Attorney Keith Loomis:

- The April 5 agenda will include an item addressing an issue with property at the north end of the County which is actually in Washoe County. The property is being developed. Access to the property is along Mustang Road and under the railroad, which has an easement granted to Storey County for maintenance. There is difficulty obtaining title insurance for this access. The railroad company has stated it will amend the easement to conform with the location of the roadway and the County would then sign off on the amended lease. Storey County would assign its interest in the lease (easement), along with the maintenance obligations, to Washoe County.

County Manager Pat Whitten:

- Rad Strategies provided interesting statistics regarding the Eblast that is distributed after the Commission meetings. The Eblast is a quick, concise rendition of what happens at the meetings. The statistics show a 50% open rate on the Eblast – this is huge. There are 250 people signed up to receive the Eblast. This a great tool and everyone is encouraged, that if you see and like it, please share it.
- A meeting was recently held with Congressman Amodei, Chair McBride, representatives from Pitney Bowes (the software company providing geo-coding for Taxation), the U.S. Postal Service, and a disappointing representation from the Department of Taxation, regarding the

zip code issue in TRI. From this meeting it is apparent there are errors here and nationwide. The County is determined to address these issues. Meetings are being set up with the Governor's office. Most likely there will not be a new zip code at TRI as it is understood that if it (zip code) does not help mail delivery, it is not the proper use of postal statutes and requirements. The focus will continue with the local Nevada Department of Taxation.

- A public hearing will be held on the tentative budget at the next Commission meeting, April 5th.
- Sadly, after 5 years, Doug Gist has closed the Peace Officer's Museum. There are a couple of ideas on what to do with the space. Realistically, utilizing the space as a museum - if it couldn't succeed under Mr. Gist's model - would probably not succeed. The County is eager to see what can be done with the space and still respect the historic integrity of the jail.
- Mr. Whitten acknowledged the caliber, responsiveness, and professionalism of the advice and counsel received from the County's three legal counsels - District Attorney Anne Langer, Outside Counsel-Attorney Robert Morris, and Deputy District Attorney Keith Loomis. Thanks to all three for the new level of legal advice brought to the County.

9. BOARD COMMENT (No Action - No Public Comment)

Commissioner McGuffey:

- Happy to be the honorary, Chief Judge for the oyster fry this last weekend. District Attorney Langer was also a judge, along with ladies from Tahoe and Reno. It was a lot of fun.
- Today only, Dairy Queen is giving out free ice cream cones with donations being accepted for the Children's Miracle Network.

Vice Chairman Gilman:

- A wild horse conference will be held in TRI on Friday, March 18th, 9:30 AM. All stakeholders involved will be in attendance. There are approximately 1,300 head of horses in the TRI range. There is a lot of community and company interest, including from Tesla and Switch who encouraged the meeting.

10. DISCUSSION ONLY: Presentation from Gregg Jones, President and CEO of EP Minerals.

Al Kaczanowski, Vice President of Sales and Marketing for EP Minerals, gave a power-point presentation and review of the history of EP Minerals in Storey County.

The company was started in the 1800's. The company became Eagle Pitcher in the early 1900's. In 1945, land was purchased outside of Reno which is the location of the current facility. There are also locations in Fernley, Lovelock, Clark County, Oregon, Nebraska, and Tennessee.

EP is the one of the world's largest miners and processors of diatomaceous earth (DE), supplying one-third of the world's demand - and is Nevada's largest exporter by volume. EP also produces filter aids and bentonite-based clays. EP has a broad range of products and sells to a diverse market range. EP remains a stable company through ups and downs of the economy.

Discussion paused at 10:30 A.M. to hear Item #11

Discussion resumed at 10:42 A.M. after completion of Item #11

Mr. Kaczanowski reviewed the different products produced by EP Minerals and explained the origins of these products. Mr. Kaczanowski explained how the various products are utilized. Edible oils, corn syrup and other oils and sweeteners, along with fruit juice, beer, and wine are almost all filtered with the diatomaceous earth or perlite coming from EP in Nevada. DE is used in paint, biofuels, renewable diesel and petro-chemicals, and animal feed.

Mr. Kaczanowski said DE is also used as a soil amendment which reduces the amount of irrigation needed, and as an insecticide. EP is pushing applications in the insecticide market as a lot of companies move away from the use of chemical insecticides. DE kills bugs without any chemicals. Many companies use EP products in many different areas.

EP employs approximately 335 people in Nevada with good jobs and benefits, and higher than average salaries. There is a lot of focus on safety at the EP plants as evidenced by many safety awards. EP supports local vendors and gives back to the communities and families in need.

Chair McBride complimented Mr. Kaczanowski for a terrific presentation. A lot of people have no idea that all of that dirt goes into products people use.

Commissioner McGuffey said he toured one of the facilities and it was very impressive.

Mr. Whitten recognized Tim Crowley who was also in attendance. Mr. Crowley has been involved in mining for a long time. Mr. Whitten also toured the facilities at TRI and said it was fascinating. There are a lot of interesting companies at TRI (in addition to EP), including BiNutraceuticals. Dean Haymore has asked BiNutraceuticals if the high school chemistry class could come to them for a field trip. The response was "absolutely".

Mr. Whitten thanked Mr. Kaczanowski for showing something Mr. Whitten has taken for granted when driving past (the EP facility) and for being great corporate citizens.

11. DISCUSSION/POSSIBLE ACTION: Public Hearing to consider approval of Resolution 16-436 authorizing the lease of County property located at 1705 Peru Drive to Ames Construction, Inc.
***This item will be heard at 10:30am**

Deputy District Attorney Keith Loomis presented this item. Under County statutes, the County can lease property that is less than 25,000 square feet without going through a public offer process. In this case, a portion of the property at 1705 Peru Drive. A resolution is required determining whether or not the lease is in the public's interest especially when the lease is less-than-market rate.

It is proposed that a portion of 1705 Peru Drive be rented to Ames Construction to be used during the construction process of USA Parkway. Ames has been asked to put in approximately \$56,000 in improvements, which will remain with the property at the end of the 22 month lease. There is a provision for lease extension at the rate of \$2,200 per month.

The benefit to the County would be the \$56,000 in tenant improvements in the property while being used by Ames.

Seth Alexander, Ames Construction, said Ames is very excited about this project and to have an office at TRI. This is a win/win solution for both Ames Construction and the County. Mr. Alexander reviewed the background of Ames Construction.

County Manager Whitten thanked Mr. Alexander and Ames. The improvements that will be made are ones that have been planned all along and will not involve an expenditure of taxpayer dollars. Ames is taking from the County a field office that is in spare space at Station 75 in the McCarren complex. Ames is also responsible for providing space to NDOT which will be worked out between Ames Construction and NDOT. Parking lot space may also be leased. This is done in exchange for really nice, long desired tenant improvements.

Commissioner McGuffey thinks this a great deal and just wanted to hear that there would not be any heavy equipment at the location - only office.

Mr. Whitten said Ames has also offered to provide janitorial service for restrooms in the area.

No public comment.

Mr. Whitten read the Resolution heading: Resolution 2016-436, a Resolution for the lease of space in the County building to Ames Construction, Inc.

Motion: Approve Resolution 16-436 authorizing the lease of County property located at 1705 Peru Drive to Ames Construction, Inc. and hereby authorize the Chairman or County Manager to sign such lease, **Moved by:** Vice Chair Gilman, **Seconded by:** Commissioner McGuffey, **Vote:** Motion carried by unanimous vote, (**Summary:** Yes=3)

RECESS AS BOARD OF COUNTY COMMISSIONERS TO CONVENE STOREY COUNTY FIRE PROTECTION DISTRICT BOARD

12. DISCUSSION/POSSIBLE ACTION: Consideration and possible approval of Resolution 16-435 establishing a Capital Projects Fund for the Storey County Fire Protection District.

Fire Chief Gary Hames presented this item. This basically is "clean-up" necessitated when the 473 Fire District was dissolved and the 474 took responsibility for all-risk, including wildland, for the entire County and fire district. There were revenues left that rolled from 473 to 474 for capital improvement plans. This money is currently in year-end fund balances in the Fire District operating budget, which is not the appropriate place.

This Resolution resolves the issue and moves the revenue into the right funds. Chief Hames and the Comptroller have been working on a plan, which will be submitted to State Taxation after the Resolution is approved. Each year this will become another fund that will have to come before the Board for approval of use.

No public comment.

Chief Hames read the Resolution title: Consideration and possible approval of Resolution 16-435 establishing a Capital Projects Fund for the Storey County Fire Protection District.

Motion: Approve Resolution 16-435 establishing a Capital Projects Fund for the Storey County Fire Protection District, **Moved by:** Vice Chair Gilman, **Seconded by:** Commissioner McGuffey, **Vote:** Motion carried by unanimous vote, (**Summary:** Yes=3)

ADJOURN AS STOREY COUNTY FIRE PROTECTION DISTRICT BOARD TO RECONVENE AS STOREY COUNTY BOARD OF COMMISSIONERS

13. DISCUSSION/POSSIBLE ACTION: Consider approval of Memorandum of Understanding with Nevada Department of Taxation and Nevada Tax Commission to authorize Storey County Officials to review records of Department of Taxation to determine whether there has been a proper reporting of transactions subject to sales and use taxes within Storey County.

Deputy District Attorney Keith Loomis explained this is a continuation of efforts by the County to address the zip code issue as it applies to sales and use tax revenues basically from Tahoe Reno Industrial Center. This Memorandum of Understanding is between the County and the Department of Taxation and the Tax Commission, to authorize certain County individuals, as well as Tom Gransbury, to review normally confidential records of the Department to confirm accuracy of sales and use taxes being provided to the County.

Commissioner McGuffey asked if there was any resistance on the part of the Department of Taxation.

Mr. Loomis replied the Department drafted the Memorandum and has been very cooperative.

Mr. Whitten said this is a slow path. The County has asked for one project – a list of vendor suppliers in order to check sales and use tax – and getting that information has been very difficult. The County is working with Taxation on both the list of retail providers and trying to identify big ticket items that should not be falling through the cracks. There are strict confidentiality requirements. This will allow the County to catch errors in reporting or satisfy the County that items are being reported correctly.

Public comment:

Nicole Barde, Storey County Resident: This allows the County to inspect records?

Mr. Whitten: Yes, the sales and use tax reports submitted by individual suppliers.

Ms. Barde: The next step potentially being a “claw back”, has there been thought about what that would like and how is that prepared for?

Mr. Whitten: Yes. Discussions with sales and use tax representatives have simply been if issues or errors in reporting are identified they will be corrected. It is Department of Taxation’s job to assess, collect, and distribute sales and use tax accurately.

Motion: Approve Memorandum of Understanding with Nevada Department of Taxation and Nevada Tax Commission to authorize Storey County Officials to review records of Department of Taxation to determine whether there has been a proper reporting of transactions subject to sales and use taxes

within Storey County, **Moved by:** Vice Chair Gilman, **Seconded by:** Commissioner McGuffey, **Vote:** Motion carried by unanimous vote, (**Summary:** Yes=3)

14. DISCUSSION/POSSIBLE ACTION: Second reading of Ordinance No. 15-267 amending Storey County Code Title 8 Health and Human Safety by adding chapter 8.01 Nuisances and providing a uniform process for abating all the different nuisance complaints in the code. The amendment also changes the existing nuisance procedures in other parts of the Code to be consistent with the new chapter and provides for other properly related matters.

Outside Counsel Robert Morris reviewed changes made based during previous discussions held at Board meetings.

The basic changes are:

1. How the complaint process is initiated: The process begins in section 8.01.030. When there is a complaint, the person will go to the authorized inspector designated for each area of the code. Once the complaint is received, there is a process under the notice of nuisance. Under this section, the property owner must be informed of specific items listed in this section. This includes due process rights regarding a hearing and appeal.

Normally the property owner would have 60 days in which to clean it up. The inspector can extend the amount of time if there is reasonable progress in complying with the notice. If there is a health and safety problem, the time can be speeded up. If there is a real problem, the County can do a summary abatement.

The complaint must be written and signed so that it actually comes from a person. Text has also been added to state "or if the inspector observes a public nuisance" allowing an initiation of the complaint by County staff.

2. The independent hearing officer: Section 8.01.20 Definitions. Text added to state, "The Board may designate a justice court or municipal court pro tem from outside of the county as a hearing officer". To be clear, this person is not being asked to sit as a Judge, but as a hearing officer. Court rules of evidence do not apply in these cases - allowing cases to be presented without having to know rules of evidence.

3. Civil penalties: This has been changed to allow the hearing procedure on the nuisance to look at the need for civil penalties at the same time and simplifies the process. Under 8.01.060(c), the inspector may ask for civil penalties to be imposed by the hearing officer, taking into account the owner's conduct. If there is no success in encouraging a nuisance to be cleaned up, the inspector can talk to the hearing officer and suggest civil penalties might be appropriate. It is up to the hearing officer to decide if civil penalties should be imposed. Civil penalties can be appealed at the time of the hearing officer's decision.

Previously there was a concern regarding the costs of transcribing the hearing. Language has been included in 8.01.060(a) requiring the owner to make a deposit in an amount set by the Board. If the hearing officer determines there is no nuisance, the deposit will be refunded in full.

There had been a concern expressed by Mr. Phillips looking for a more formalized method where there was someone designated as code enforcement officer. At this point, the County does not really need a full-time code enforcement officer. The informal use of authorized inspectors is a better way to handle it.

Comments have been made about being more specific in the definition of a nuisance. Section 8.01.10 has the basic, simple, legal requirements of a nuisance. In this section, specific language has been added defining nuisances.

Mr. Morris feels that most issues raised during public comment and by the Board have been dealt with and the Ordinance is ready to go.

District Attorney Anne Langer: Prior to this ordinance, the County has not had a realistic ability to correct nuisances. Through this ordinance, procedure has been put together allowing the County to now go after nuisances. Previously, nuisances were considered civil and not dealt with criminally. With this procedure, on the civil side there is a hearing officer who can make decisions on nuisances. Now there is an opportunity on both the civil and criminal sides to get results.

Chair McBride: Are you confident the way the ordinance has been re-written that it will be enforceable?

Ms. Langer: Think it is. There were a lot of the issues that made it complicated and unable to enforce. There was not a hearing officer and it would go through an informal process. There were no civil or criminal penalties to insure people would correct nuisances. The way the ordinance is written is stream-lined and makes more sense. This will allow the opportunity to go after nuisances that have been "eye-sores" for years.

Commissioner McGuffey: Hats off to Mr. Morris, great job. The ordinance has been cleaned up and is easy to read. Mr. McGuffey pointed out one typo, changing "of" to "if".

Mr. Morris: A resolution will be presented that will appoint hearing officers. At that time, a discussion will be held to see what the Board feels about the deposit.

Mr. Whitten: The intent of the deposit is to cover the cost of the pro tem and the court transcriber if nuisance is sustained by the hearing officer. If the nuisance is not sustained, the deposit will be refunded.

No public comment.

Motion: Approve Second reading of Ordinance No. 15-267 amending Storey County Code Title 8 Health and Human Safety by adding chapter 8.01 Nuisances and providing a uniform process for abating all the different nuisance complaints in the code. The amendment also changes the existing nuisance procedures in other parts of the Code to be consistent with the new chapter and provides for other properly related matters, **Moved by:** Vice Chair Gilman, **Seconded by:** Commissioner McGuffey, **Vote:** Motion carried by unanimous vote, (**Summary:** Yes=3)

COMMUNITY DEVELOPMENT AND PLANNING

15. FOR POSSIBLE ACTION, LICENSING BOARD SECOND READINGS:

- A. DESERT VALLEY DENTAL OF TRI, INC. - General / 420 USA Parkway TRI
- B. WESTERN PARTITIONS, INC. - Contractor / 8300 SW Hunziker Road ~ Tigard, OR (contractor)
- C. ROLLING PLAINS CONSTRUCTION, INC. - Contractor / 12331 North Peoria St. ~ Henderson, CO (fireproofing contractor)
- D. HELIX ELECTRIC OF NEVADA, LLC - Contractor / 3078 East Sunset Road ~ Las Vegas (elect cont.)
- E. MEDIC ELECTRIC, LLC - Contractor / PO Box 612 ~ Sparks (residential contractor)
- F. ERGOMAT, INC. - Contractor / 7469 Industrial Pkwy ~ Avon Lake, OH (installation of fatigue matting)
- G. MARTIN HARRIS CONSTRUCTION, LLC - Contractor / 3030 South Highland ~ Las Vegas (contractor)
- H. BORGES ARCHITECTURAL GROUP - Contractor / 1478 Stone Point Dr ~ Roseville, CA (architectural)
- I. COLOG, INC. - Contractor / 810 Quail Street ~ Lakewood, CO (geophysical/hydrophysical services)
- J. ITEM WEST, LLC - Contractor / 9725 South 500 West ~ Sandy, UT (manufacturing solutions)
- K. EDAX, INC. - Contractor / 91 McKee Drive ~ Mahwah, NJ (equipment manufacturing)
- L. FRIENDLY PLUMBING, INC. - Contractor / 1744 C Street ~ Sparks (plumbing contractor)
- M. APOLLO SHEET METAL, INC. - Contractor / 1207 West Columbia ~ Kennewick, WA (mech. Cont.)
- N. FUTURE ELECTRONICS, CORP., -- Contractor / 237 Hymus Blvd ~ Pointe-Claire CANADA (electronics distributor/installer)
- O. ICG CONSTRUCTION, LLC - Contractor / 500 Ryland ~ Reno (concrete contractor)
- P. GEOTEMPS, INC. - General / 970 Caughlin Xing ~ Reno (Staffing solutions)

Stacey Bucchaneri, on behalf of the Community Development Department, recommended approval of items A through P.

Motion: Approve items A., B., C., D., E., F., G., H., I., J., K., L., M., N., O., and P., **Moved by:** Vice Chair Gilman, **Seconded by:** Commissioner McGuffey, **Vote:** Motion carried by unanimous vote, **(Summary:** Yes=3)

16. PUBLIC COMMENT (No Action)

Nicole Barde, Storey County Resident: Recently a newspaper article regarding the upcoming budget cycle, stated that the State's guidance to its agencies is going to be - come in at a "flat to 5% down" because revenues are not coming in as they thought. What guidance has the County given to the various departments regarding the budget?

Mr. Whitten: Not involved in the details of budget as its being developed, but gets an overview from the County's fiscal team. General statements coming from the Dept of Taxation may or may not apply and do not take into account new projects Storey County has in TRI that will be on the books this year. It also does not take into account new personal property changes that routinely happen. The Department of Taxation is giving a "global" statement to all of the jurisdictions. The

County gets its own individual forecast, which is more meaningful. The fiscal team takes this information and works with it. There are concerns - we all know we can have assessed values that during recession, regardless of whether those are single family homes, commercial industrial buildings, or whatever, they can freefall in value with no "brake". Conversely, when they ratchet back up as in the market we may begin to see, they will presume to incline that a rate no greater than 3% for owner-occupied single family dwellings and 8% for commercial-industrial - those are the property tax caps on there. Assessed values can grow but the taxes and revenues cannot. Certainly they will get there over time, but at the end of the day up to 8% and up to 3% are probably the operative words as there is a very complex formula as to ultimately how that 3% for owner-occupied single families and more critical to the County is that 8% that mostly would have been incurred with existing buildings - this only applies to real property, the caps - that 8% would have applied in TRI, would only be either 2.8% or 2.9%. Long story short, there will not be any real growth except for new or the expanded or recycled.

Chair McBride: Does not believe there have been any "red flags". In the first two quarters of reviewing the budget, the revenues have been in-line with where they should be.

Mr. Whitten: Where the revenues are supposed to be is what the County forecasts, not necessarily Taxation. This happens routinely each year with Taxation where they say "take these numbers". The County takes it further and looks at the numbers, and goes back to Taxation and explains where the numbers are on-target, overly-optimistic, and in some areas where the County does not agree - such as business license, plan review fees, and all other areas, need to be looked at. To say "5% down" is a global statement not a specific Storey County statement.

Ms. Barde: The money coming from the State is not going to be affected? If the State has to decrease its money, the money coming to the County may be hit.

Mr. Whitten: Has not been briefed on the budget and cannot think of any monies that come direct from the State that would be jeopardized. This will make the 2017 Legislative session interesting as far as un-funded mandates presented when there are funding problems.

Ms. Barde: Just wondering regarding the (State's) guidance given to its own organizations, if the County's is similar or different.

Mr. Whitten: In that context, the State is basically telling DMV, Highway Patrol, and various other State agencies, this year expect a down-turn. That does not necessarily apply to the County. It is the State's forecast of its revenue streams.

17. ADJOURNMENT

The meeting was adjourned by the call of the Chair at 11:37 A.M.

Respectfully submitted,

By _____
Wendy Bacus, Deputy Clerk & Treasurer



Storey County Board of County Commissioners

Agenda Action Report

Meeting date: April 19, 2016

Estimate of time required: 0 min

Agenda: Consent Regular agenda Public hearing required

1. For possible action approval of Payroll Checks date 3/30/16 for \$4,844.54, date 4/07/16 for \$120,306.05, date 4/07/16 for \$72,346.63 and 4/08/16 for \$470,416.41. Accounts Payable Checks date 4/01/16 for \$1,242,086.42 (not including check 85107) and date 4/05/16 for \$28,828.08.

2.

2. **Recommended motion:** Approval of claims as submitted.

3. Prepared by: Hugh Gallagher

Department: Comptroller

Telephone: 775 847-1006

4. Staff summary: Please find attached the claims

5. Supporting materials: Attached

6. Fiscal impact:

Funds Available: NA

Fund: NA

__NA__ Comptroller

7. Legal review required:

__NA__ District Attorney

8. Reviewed by:

___ Department Head

Department Name: Comptroller

 County Manager

Other agency review: _____

9. Board action:

Approved

Approved with Modifications

Denied

Continued

Payroll Type: Special
Payroll Groups: 4
Check Date: 03/30/16
Period-end Date: 03/25/16

Check/ DD #	Emp #/ Ded #	Payee	Amount
Total User Transfer for EFTPS:			785.02
Total Deductor Checks:			.00
Total Employee Checks:			3,306.31
Total Employee Direct Deposit:			.00
Total Employee Deds Xferd on Dir Dep File:			.00
Total User Transfer to Deductor:			753.21
Total Disbursed:			4,844.54

Approved by the Storey County Board of Commissioners: _____

CHAIRMAN	COMMISSIONER	COMMISSIONER
_____	_____	_____
COMPTROLLER	_____	_____
_____	_____	_____
TREASURER	_____	_____

Payroll Type: Deductor Check Date: 04/07/16
Check/ DD # Emp # Ded # Payee Amount

Total User Transfer for EFTPS: .00
Total Deductor Checks: 120,306.05

Approved by the Storey County Board of Commissioners: _____

CHAIRMAN COMMISSIONER COMMISSIONER

COMPTROLLER

TREASURER

Payroll Type: Deductor Check Date: 04/07/16

Check/ DD #	Emp #/ Ded #	Payee	Amount
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Total User Transfer for EFTPS:			.00
Total Deductor Checks:			72,346.63

Approved by the Storey County Board of Commissioners: _____

CHAIRMAN COMMISSIONER COMMISSIONER

COMPTROLLER

TREASURER

Payroll Type: Regular Check Date: 04/08/16 Period-end Date: 04/03/16
 Payroll Groups: 1 2 3 4 5 6 7 8 9

Check/ DD #	Emp #/ Ded #	Payee	Amount
Total User Transfer for EFTPS:			54,128.74
Total Deductor Checks:			109,984.86
Total Employee Checks:			1,012.82
Total Employee Direct Deposit:			259,782.19
Total Employee Deds Xferd on Dir Dep File:			8,526.46
Total User Transfer to Deductor:			36,981.34
Total Disbursed:			470,416.41

Approved by the Storey County Board of Commissioners: _____

CHAIRMAN	COMMISSIONER	COMMISSIONER
_____	_____	_____
COMPTROLLER		

TREASURER		

CHECK NUMBER	VENDOR	INVOICE DESCRIPTION	P/O #	DATE	TRANS#	AMOUNT	CHECK TOTAL
85100	ACME TEXTURE SOURCE LLC	PROGRESS BILL-MC CARREN		4/01/16	76265	4,550.00	
85101	ALLISON, MACKENZIE, LTD	COMPLETE-MC CARREN		4/01/16	76265	4,550.00	9,100.00
85102	ALSCO INC	PROF SERVICES ALR		4/01/16	76250	225.00	
		AFSCME		4/01/16	76250	1,650.00	1,875.00
		ST 71 LAUNDRY		4/01/16	76244	10.60	
		ST 72 LAUNDRY		4/01/16	76244	8.77	
		ST 75 LAUNDRY		4/01/16	76244	10.52	
		ST 74 LAUNDRY		4/01/16	76244	10.52	
		ST 71 LAUNDRY		4/01/16	76244	10.60	
		ST 72 LAUNDRY		4/01/16	76244	8.77	
		ST 75 LAUNDRY		4/01/16	76244	10.52	
		ST 74 LAUNDRY		4/01/16	76244	10.52	
		CH		4/01/16	76189	37.30	
		CH		4/01/16	76189	37.30	
		SHOP		4/01/16	76189	45.69	
		SHOP		4/01/16	76189	54.29	255.40
85103	AMERIGAS PROPANE LP	201039552 VCTC		4/01/16	76227	191.84	191.84
85104	ARC HEALTH AND WELLNESS	PRE HIRE PSYCH EVAL		4/01/16	76218	275.00	275.00
85105	BOARD OF REGENTS (COMPT)	QUARTERLY PROGRAM SUPPORT		4/01/16	76187	5,000.00	5,000.00
85106	BRANDON, RUSSELL D	PUBLIC ADMINISTRATION		4/01/16	76298	60.00	60.00
85107	BUCKET OF BLOOD SALOON	LOT-PAVED		4/01/16	76263	4,500.00	4,500.00
85108	BURRELL, SCOTT LEWIS	MAR 10-23, 2016		4/01/16	76228	225.00	
85109	BURTON'S FIRE INC	E-171 REPAIRS		4/01/16	76245	78.32	
		FR53907-RLF VALVE		4/01/16	76242	349.14	427.46
85110	BUSINESS & PROFESSIONAL	GARNISHMENT DISBURSED		4/01/16	76288	235.54	235.54
85111	C.M.F. LEADERSHIP CONSULT	ANDRES/GLOWNIAK TRAINING		4/01/16	76208	350.00	350.00
85112	CAPITAL CITY AUTO PARTS	SHOP- SOCKET		4/01/16	76192	83.96	
		TRI FUEL PUMP		4/01/16	76192	75.83	
		FR62244-SENSOR		4/01/16	76192	87.20	
		SO48325-REDI SENSOR		4/01/16	76192	87.20	
		TRI FUEL PUMP		4/01/16	76192	24.18	
		FR42861-BELTS		4/01/16	76192	369.06	
		P-75- LAMP		4/01/16	76192	10.18	
		R-75-CLTCH ASSEM		4/01/16	76192	169.49	
		PW25253- ATP		4/01/16	76192	34.68	
		PW25253-DEXVIATF		4/01/16	76192	55.44	
		SHOP-HEAT GUN		4/01/16	76192	45.99	
		SHOP-FILTERS		4/01/16	76192	19.66	
		PW-TRANSPORT- LOG BOOKS		4/01/16	76192	14.50	
		SO56310- SENSOR		4/01/16	76192	80.68	
		SO66023-TIRE PRESSURE		4/01/16	76192	9.36	
		STOCK-FITTINGS		4/01/16	76192	14.72	

CHECK NUMBER	VENDOR	INVOICE DESCRIPTION	P/O #	DATE	TRANS#	AMOUNT	CHECK TOTAL
85113	CARSON DODGE CHRYSLER INC	E75-WIPERS		4/01/16	76192	20.68	
		STOCK-SENSOR VLV		4/01/16	76192	31.12	
		FR32907-SUPPORT		4/01/16	76192	44.98	
		FR32907-SUPPORT		4/01/16	76192	50.98	1,002.90
		FR58397-FILTER		4/01/16	76192	11.99	
85114	CARSON VALLEY OIL CO INC	2016DODGE AMBULANCE CDBG		4/01/16	76220	47,371.00	
		2016 DOGE CHASSIS CDBG		4/01/16	76220	821.25	48,192.25
85115	CELLCO PARTNERSHIP	PW-UNL & DSL		4/01/16	76190	1,503.89	
		PW-UNL & DSL		4/01/16	76190	1,159.52	2,663.41
85116	CHARM-TEX	INV 9762000422		4/01/16	76246	40.02	
		INV 9762002094		4/01/16	76246	4,962.43	
		772263062-00001 IPAD		4/01/16	76191	222.81	
		775-745-4354 MIKE		4/01/16	76191	64.82	
		INV 9762000875 HUGH		4/01/16	76306	40.01	
		775 443-5802 P. WHITTEN		4/01/16	76255	40.01	
		IPAD DATA 2 MNTHS		4/01/16	76215	80.02	5,450.12
85117	COLLECTION SERVICE OF NEV	INMATE BATHROOM SUPPLIES		4/01/16	76283	139.82	139.82
85118	COMMUNITY CHEST INC	GARNISHMENT DISBURSED		4/01/16	76224	.06	.18
		GARNISHMENT DISBURSED		4/01/16	76224	.12	
85119	COMSTOCK FOUNDATION FOR	APRIL2016 PROGRAM SUPPORT		4/01/16	76181	20,583.33	20,583.33
85120	DAIOHS USA INC	D. DOTSON ATTENDING		4/01/16	76229	100.00	100.00
85121	DEUCE NINE LLC	APRIL 2016		4/01/16	76295	25.95	
		WATER COOLER RENTAL		4/01/16	76285	82.85	
		CH-WATER		4/01/16	76288	51.90	
		WATER FILTER RENTAL FEE		4/01/16	76299	25.95	186.65
85122	ELLIOTT AUTO SUPPLY INC	GRAPHICS FOR NEW CARS		4/01/16	76213	1,415.00	1,415.00
		SO58905-ROTOR		4/01/16	76193	116.94	
		SHOP- OIL		4/01/16	76193	240.00-	
		PW63742-BELT, PULLEY, V KIT		4/01/16	76193	170.89	
		PW63742-TENSIONER		4/01/16	76193	49.39	
		SHOP-BATTERY TESTER		4/01/16	76193	140.35	
		FR42861-COMPRESSOR		4/01/16	76193	302.45	
		FR42861-ACCUM.ORIFICE		4/01/16	76193	44.84	
		SO56310-MANIFOLD SET		4/01/16	76193	78.73	
		SHOP- AC WASHERS		4/01/16	76193	18.98	
		SHOP-CREDIT		4/01/16	76193	151.05-	
		SO56311- CREDIT		4/01/16	76193	67.08-	
		FR42861-SEAL		4/01/16	76193	8.16	
		SO62212-BRAKES		4/01/16	76193	187.35	
		R75-DEL 15-31101		4/01/16	76193	12.58	
		BC70-CNTRL ARMS		4/01/16	76193	222.06	
		FR62244-BALL JOINTS		4/01/16	76193	197.74	
		PW63742-PUMP KIT		4/01/16	76193	106.17-	
		SO62214- BRAKES		4/01/16	76193	179.37	1,165.53
85123	FE ONLINE LLC	CERT BACKPACKS		4/01/16	76304	701.25	

CHECK NUMBER	VENDOR	INVOICE DESCRIPTION	P/O #	DATE	TRANS#	AMOUNT	CHECK TOTAL
85124	FERGUSON ENTERPRISES INC	GOLD HILL-CLA-VAL CRD		4/01/16	76194	930.00	930.00
85125	FERRELLGAS LP	ST 71 PROPANE WTR PLANT		4/01/16 4/01/16	76247 76277	107.56 908.15	1,015.71
85126	FLEET HEATING & AIR INCOR	SWITCH 1705 PERU-HEATER		4/01/16	76195	472.00	472.00
85127	FLYERS ENERGY LLC	LW- REG & DSL		4/01/16	76196	716.90	716.90
85128	GRIND CREATIVE, LLC	CEM GIN TABLE TENTS		4/01/16	76230	920.00	920.00
85129	HAT, LTD	FUEL GRANT LABOR FUEL GRANT LABOR		4/01/16 4/01/16	76249 76249	2,505.61 1,276.75	3,782.36
85130	HD SUPPLY CONST SUPPLY LT	SHOP EXT-PIPE		4/01/16	76201	252.00	252.00
85131	HIGH DESERT MICROIMAGING	IMG-FM RD/URD 123245-394 IMG-FM GRTR/GRTE 2016 AX LINKING FY16 IMG-FM RD/URD 123503-617		4/01/16 4/01/16 4/01/16 4/01/16	76179 76179 76179 76179	192.20 486.22 250.00 182.41	1,110.83
85132	HISTORIC FOURTH WARD SCHO	QUARTERLY PROGRAM SUPPORT		4/01/16	76185	23,750.00	23,750.00
85133	HOME DEPOT CREDIT SERVICE	POOL-ADDRESS #S AMES 1705- WHEEL, TAPE VCCS-GARBAGE DISPOSER REP VCCC-SIGN,FENCE,WEEDES AMES 1705-ANCHORS TRIM FOR BAY DOOR SHOP EXT-TRENCH WRAP SHOP EXT-SUPPLIES		4/01/16 4/01/16 4/01/16 4/01/16 4/01/16 4/01/16 4/01/16	76197 76197 76197 76197 76197 76197 76197	16.43 47.31 49.74 128.34 16.71 33.57 29.98 328.48	650.56
85134	HOSE & FITTINGS ETC	PW57792-FITTINGS		4/01/16	76198	60.67	60.67
85135	HOT SPOT BROADBAND INC	INTERNET STATION 72		4/01/16	76293	82.50	82.50
85136	INNOVATIVE IMPRESSIONS	BUS. CARDS ORTIZ & HAYMOR		4/01/16	76300	110.00	110.00
85137	IT1 SOURCE LLC	EVOLIS COLOR RIBBON EVOLIS ID CARDS LAPTOP DRIVE OFFICE 2016 X 5 PAT LAPTOP ADOBE M KEENER LAPTOP V LAPTOP RAM UPGRADE LOANER ALL IN ONE CHERIE NEVIN VISIO PRO 2016 M KEENER		4/01/16 4/01/16 4/01/16 4/01/16 4/01/16 4/01/16 4/01/16 4/01/16 4/01/16	76205 76205 76294 76294 76294 76294 76294 76294 76294	74.77 64.71 57.14 1,871.85 1,674.65 382.10 1,561.59 72.14 876.06 359.97	6,994.98
85138	JAMES C MCLENNAN MDPC	APRIL2016 HEALTH OFFICER		4/01/16	76183	500.00	500.00
85139	JBP LLC	FR32907- AXLE CRACK SWEOPER-IDLE ADJUST PW57793- REL VALVE E75-CHAINS		4/01/16 4/01/16 4/01/16 4/01/16	76199 76199 76199 76199	880.44 128.63 30.59 277.59	

CHECK NUMBER	VENDOR	INVOICE DESCRIPTION	P/O #	DATE	TRANS#	AMOUNT	CHECK TOTAL
85140	KIMBALL MIDWEST	SHOP-MSC HARDWARE		4/01/16	76200	317.87	317.87
85141	L A PERKS PLUMBING &	EXTRAS INSTALL FUELMASTER		4/01/16	76308	364.69	
		INSTALL FUELMASTER		4/01/16	76308	12,850.00	
		EXTRAS INSTALL FUELMASTER		4/01/16	76308	547.03	13,761.72
85142	L N CURTIS & SONS	UNIFORM JACKETS		4/01/16	76251	570.00	570.00
85143	LAKE TAHOE REGIONAL FIRE	2016 DUES		4/01/16	76252	100.00	100.00
85144	LANGUAGE LINE SERVICES IN	16TR00001/16TR00008		4/01/16	76286	5.03	5.03
85145	LEE, JAMES DONALD	GARNISHMENT DISBURSED		4/01/16	76223	144.15	144.15
85146	LINCOLN NATIONAL LIFE	RETIREE DENTAL		4/01/16	76282	722.84	722.84
85147	LIQUID BLUE EVENTS LLC			4/01/16	76231	2,285.00	2,285.00
85148	LIQUID BLUE EVENTS LLC			4/01/16	76237	31,200.00	31,200.00
85149	LYON CO COMPETROLLER	2015-2016		4/01/16	76261	7,267.75	7,267.75
85150	MA LABORATORIES INC	SARAH PC		4/01/16	76292	1,676.18	1,676.18
85151	MACKAY MANSION MUSEUM	MAR 10-23, 2016		4/01/16	76232	48.00	48.00
85152	MARK TWAIN COMMUNITY CTR	APRIL2016 PROGRAM SUPPORT		4/01/16	76184	1,666.00	1,666.00
85153	MARKEN ENTERPRISES	PPE REPAIR		4/01/16	76256	73.58	73.58
85154	MARTINONI, ROBERTA	REIMERSMNT PAPER PROD RM		4/01/16	76243	76.13	76.13
85155	MCCULLOUGH, JERRY	PARAMEDIC REFRESHER		4/01/16	76291	399.00	399.00
85156	METRO OFFICE SOLUTIONS IN	SUPPL - FY2016		4/01/16	76296	2.35	
		SUPPL - FY2016		4/01/16	76297	19.64	
		WALL/DESK CALANDER, PAD		4/01/16	76226	95.93	
		FILE TABS, FILE FOLDERS		4/01/16	76226	56.16	
		STYROFOAM CUPS,DESK MOUSE		4/01/16	76226	49.34	
		TONER CARTRIDGE		4/01/16	76226	97.46	
		OFFICE SUPPLIES		4/01/16	76301	155.77	
		NEW KEY BOARDS FOR COMM		4/01/16	76217	114.20	
		CORDELS VAC FOR COMM		4/01/16	76216	48.32	639.17
85157	MICHAEL HOHL MOTOR CO	SO62212-STRUT		4/01/16	76276	43.20	43.20
85158	MODERN STORAGE, LLC	STORAGE CONTAINES 1/3		4/01/16	76202	7,950.00	7,950.00
85159	MONARCH DIRECT LLC	PATIENT CARE CHARTS		4/01/16	76254	864.92	864.92
85160	NEV DEPT HUMAN RESOURCES	FEB COUNTY MATCH		4/01/16	76270	3,619.62	3,619.62
85161	NEV DIV OF HEALTH-HUMAN	CONSUMER HEALTH PROTECTIO		4/01/16	76275	5,083.70	5,083.70
85162	NEV HUMAN RESOURCES	SFY16-RCW-SC-Q4		4/01/16	76274	5,928.75	5,928.75

CHECK NUMBER	VENDOR	INVOICE DESCRIPTION	P/O #	DATE	TRANS#	AMOUNT	CHECK TOTAL
85163	NEV RURAL REGIONAL CENTER	JAN MEDICAID OG		4/01/16	76274	1,933.00	7,861.75
85164	NTU TECHNOLOGIES INC			4/01/16	76248	144.64	144.64
85165	OCCUPATIONAL HEALTH CENTE	935 5 DRUMS		4/01/16	76203	4,350.00	4,350.00
85166	OWENS EQUIPMENT SALES	DRAKE PHYSICAL		4/01/16	76257	209.50	209.50
85167	PETRINI, ANGELO D	VACTOR-MANUAL, REPLACE		4/01/16	76269	512.64	512.64
85168	PIPER'S OPERA HOUSE	MAR 10-23, 2016		4/01/16	76233	28.00	28.00
85169	PITNEY BOWES GLOBAL (LEA)	4/2/16 EVENT		4/01/16	76303	1,500.00	1,500.00
85170	PITNEY BOWES INC	VIRGINIA CITY TOURISM		4/01/16	76234	1,020.99	1,020.99
85171	PROTECTION DEVICES INC	POSTAGE MACHINE RENTAL		4/01/16	76209	126.42	126.42
85172	PUBLIC AGENCY COMPENSATIO	ANNUAL INSPECTION		4/01/16	76235	185.00	185.00
85173	PURCELL TIRE & RUBBER CO	2015-2016		4/01/16	76258	1,250.00	1,250.00
85174	R & E FASTENERS INC	KW 704-TIRES		4/01/16	76204	2,459.80	2,459.80
85175	RAPID SPACE LLC	PW TRNSPRT- TIRES		4/01/16	76204	2,784.92	5,244.72
85176	RAY MORGAN CO INC (CA)	SHOP-TEK SCREWS		4/01/16	76206	6.45	6.45
85177	REDWOOD TOXICOLOGY LAB, IN	VCTC FAIRGROUNDS		4/01/16	76236	89.00	89.00
85178	RELANCE STANDARD LIFE IN	COPIER-COMM C STREET		4/01/16	76289	453.00	453.00
85179	REMSA EDUCATION DEPT	GIS PLOTTER CN2676-01		4/01/16	76289	150.49	150.49
85180	RENO CIRCUIT BREAKERS	COPIER-COMM C STREET		4/01/16	76290	453.00	453.00
85181	REPORTING SYSTEMS, INC	GIS PLOTTER CN2676-01		4/01/16	76290	150.49	1,206.98
85182	RUPPCO INC	DRUG SAMPLE KITS		4/01/16	76225	266.00	266.00
85183	SAINTE MARYS ARTCENTER INC	GL 152469-01 RETIREE LIFE		4/01/16	76280	5.70	5.70
85184	SAINTE MARYS PREFERRED HEA	VFD CPR CLASS		4/01/16	76259	15.00	15.00
85185	SHOAF, BRIAN ALLEN	ST 75 SCBA INSTALL		4/01/16	76207	68.89	68.89
85186	SIERRA CONTROL SYSTEMS	DATA PUSH FROM FH		4/01/16	76281	150.00	150.00
85187	SIERRA PACIFIC POWER CO	EMS SUPPLIES		4/01/16	76260	134.10	134.10
		QUARTERLY PROGRAM SUPPORT		4/01/16	76186	10,000.00	10,000.00
		ARINW000101296 ARID 4212		4/01/16	76284	9,319.08	9,319.08
		FEB 25-MAR 9, 2016		4/01/16	76238	1.50	1.50
		MAR 10-23, 2016		4/01/16	76238	9.00	10.50
		HILLSIDE TANK POWER FAIL		4/01/16	76241	1,012.18	1,012.18
				4/01/16	76210	24.90	24.90

INVOICE DESCRIPTION	P/O #	DATE	TRANS#	AMOUNT
VIRGINIA CITY ST LIGHTS		4/01/16	76210	864.94
SC COMMISSIONERS ST LIGHT		4/01/16	76210	109.60
2610 CARTWRIGHT PUMPHSE		4/01/16	76210	67.01
431 CANYON WAY ST 4		4/01/16	76210	219.12
2612 CARTWRIGHT RD RES		4/01/16	76210	75.40
145 N C ST UNIT		4/01/16	76210	78.80
381 N C ST RESTSTOP		4/01/16	76210	88.85
130 TOLL RD BLDG		4/01/16	76210	50.86
110 TOLL RD BLDG		4/01/16	76210	109.95
100 TOLL RD SHOP 1/2		4/01/16	76210	265.07
201 S C ST DA		4/01/16	76210	85.03
203 S C ST SO		4/01/16	76210	83.28
205 S C ST SO		4/01/16	76210	119.34
911 US HWY 341 JAIL		4/01/16	76210	710.75
490 SAM CLEMENS PARK		4/01/16	76210	19.24
21 S C ST GASLMO		4/01/16	76210	183.69
500 SPANIAL RAVINE RD "V"		4/01/16	76210	50.86
SUTTON ST		4/01/16	76210	31.15
104 S B ST GARAGE		4/01/16	76210	57.77
S C ST UNIT VC/372 C ST		4/01/16	76210	80.08
S C ST OUTDOOR/PAL LIGHT		4/01/16	76210	41.92
S C ST UNIT VC		4/01/16	76210	210.48
CARSON ST BALLPARK		4/01/16	76210	223.40
N C ST FIREHS		4/01/16	76210	298.77
141 N C ST (TRAINING)		4/01/16	76210	413.46
MAIN ST UNIT GH DEPOT		4/01/16	76210	69.49
2220 SIX MILE CANYON		4/01/16	76210	2,094.87
26 S B ST COURTHOUSE		4/01/16	76210	704.50
176 N C ST LIGHTS		4/01/16	76210	76.53
342 S C ST LIGHTS		4/01/16	76210	108.00
531 S C ST LIGHTS		4/01/16	76210	120.98
800 PERI RANCH RD		4/01/16	76210	133.82
1705 PERU DR		4/01/16	76210	3,714.05
185 N C ST		4/01/16	76210	65.13
420 CANYON WAY UNIT B		4/01/16	76210	139.24
420 CANYON WY UNIT A		4/01/16	76210	207.88
2141 EMPIRE RD VCH PARK		4/01/16	76210	32.61
1000 PERI RANCH RD PARK		4/01/16	76210	32.99
160 UNION ST/ B OF A		4/01/16	76210	127.14
TOWN OF GH STR LIGHTS		4/01/16	76210	96.96
100 TOLL RD PED(FOUNTAIN)		4/01/16	76210	468.08
2610 CARTWRIGHT FIREHSE		4/01/16	76210	316.72
LOCKWOOD BUG SPRAY		4/01/16	76222	50.00
INMATE MEDICATION		4/01/16	76221	82.20
APRIL2016 PROGRAM SUPPORT		4/01/16	76182	12,833.00
MAR 10-23, 2016		4/01/16	76262	2,500.00
BARCODE MAINT FY16/17		4/01/16	76180	295.00

CHECK NUMBER	VENDOR	AMOUNT
85188	SIERRA PEST CONTROL INC	50.00
85189	SMITHS FOOD & DRUG CENTER	82.20
85190	ST CO SENIOR CENTER (VC)	12,833.00
85191	STOREY COUNTY JEEP POSSE	2,500.00
85192	SUN PEAK ENTERPRISES	6.00
		792.00
85193	T L ASHFORD & ASSOCIATES	44.00
		842.00
		12,576.11
		50.00
		82.20
		12,833.00
		2,500.00
		6.00
		792.00
		44.00
		842.00
		12,576.11
		50.00
		82.20
		12,833.00
		2,500.00
		6.00
		792.00
		44.00
		842.00
		12,576.11

Report No: PB1315
 Run Date : 03/30/16

STOREY COUNTY
 CHECK REGISTER 4/01/16

CHECK NUMBER	VENDOR	INVOICE DESCRIPTION	P/O #	DATE	TRANS#	AMOUNT	CHECK TOTAL
85194	TESLA	REIMBURSEMENT CONTRACT		4/01/16	76307	925,448.75	925,448.75
85195	THERMATEMP	JAIL DRAIN REPAIRS		4/01/16	76287	363.20	363.20
85196	UNIFORMITY OF NEVADA LLC	SCHROEDER VEST		4/01/16	76212	800.00	800.00
85197	US BANCORP EQUIPMENT FINA	COPIER LEASE ACCT-842499		4/01/16	76291	3,671.01	3,671.01
85198	V & T ROCK, INC	GRINDINGS		4/01/16	76211	2,249.04	2,249.04
85199	VIRGINIA CITY MOTORCYCLE			4/01/16	76305	2,500.00	2,500.00
85200	VIRGINIA CITY TOURS INC	MAR 10-23, 2016		4/01/16	76240	12.00	
				4/01/16	76240	720.00	
				4/01/16	76240	48.00	780.00
85201	VIRGINIA RANGE WILDLIFE	COST/CATTLE GUARD PROJECT		4/01/16	76302	1,137.45	1,137.45
85202	VISION SERVICE PLAN, INC	30 048047 0001 MADDOX		4/01/16	76278	9.11	
		30 048047 0001 RETIREE		4/01/16	76278	167.60	176.71
85203	WA STATE DEPT OF CORRECT	INMATE FOOD		4/01/16	76219	315.71	315.71
85204	WASHOE CO CORONER	TOXICOLOGY/EXAMINATION		4/01/16	76279	785.00	785.00
85205	WEDCO INC	ST75-SCBA INSTALL		4/01/16	76214	171.22	
		AMES 1705-ELECT		4/01/16	76214	29.08	200.30
85206	WESTERN SUPPLY INC	TIRE CHANGER		4/01/16	76271	3,900.00	3,900.00
85207	WHITTING, DONALD K. JR	R-75 A/C		4/01/16	76188	132.50	132.50
85208	WHITTEN, PAT	STEVE FRADY PO MUSEUM		4/01/16	76264	26.36	26.36
85209	3D CONCRETE INC	TYPE II V BASE		4/01/16	76273	393.24	393.24

CHECKS TOTAL 1,242,086.42

ACKNOWLEDGEMENT OF REVIEW AND AUTHORIZATION

CHECKS TOTAL 1,242,086.42 CHECK DATE 4/01/16

COMPTROLLER

TREASURER

CHAIRMAN

COMMISSIONER

COMMISSIONER

STOREY COUNTY
 TYPED CHECKS REGISTER

AMOUNT 28,828.08
 CHECK TOTAL 28,828.08
 CHECK DATE 4/05/16
 INVOICE# INV#16-2329 3/23/16
 DESCRIPTION GH TRAIN DEPOT

TYPED CHECKS TOTAL 28,828.08

ACKNOWLEDGEMENT OF REVIEW AND AUTHORIZATION DATE

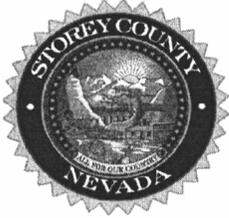
 COMPTROLLER

 TREASURER

 CHAIRMAN

 COMMISSIONER

 COMMISSIONER



Storey County Board of County Commissioners

Agenda Action Report

Meeting Date: Tuesday, April 19, 2016

Estimate of Time Required: 5 min

Agenda: Consent

Regular

Public Hearing Required

1. Title: Justice Court Quarterly Report

2. Recommended Motion: Approve

3. Prepared By: E.F. Herrington, Justice of the Peace

Department: Justice Court 775-847-0962

4. Staff Summary:

5. Supporting Materials: EOP Listings for January, February, March 2016

6. Fiscal Impact: None

Funds Available: n/a Fund: Comptroller

7. Legal Review Required: District Attorney

8. Reviewed By:

Department Head

Department Name: Commissioners' Office

County Manager

Other Agency Review

9. Board Action:

Approve

Approved with Modifications

Denied

Continued

Agenda Item No. 6

Virginia Township Justice Court ~ Storey County, Nevada

26 South B Street, Second Floor
Virginia City, Nevada 89440



775-847-0962 • Facsimile: 775-847-0915

www.storeycounty.org

2016 APR -1 AM 9:15

STOREY COUNTY CLERK

BY VS
DEPUTY

April 1, 2016

QUARTERLY REPORT

Pursuant to NRS 4.100, attached please find End of Period Listing Reports for January, February, and March, 2016.

I, E.F. Herrington, Virginia Township Justice of the Peace, Storey County, Nevada, do hereby certify that to the best of my knowledge and belief, the attached information is a full, true and correct statement of NRS 4.100.



E.F. Herrington
Justice of the Peace

Subscribed and sworn before me
this 1 day of April 2016.



Justice Court Clerk

VIRGINIA TOWNSHIP JUSTICE COURT EOP LISTING - ACTUAL - JANUARY 2016

Acct		Payee	Disbursed Amount
170-000-34206	AA FEE - STATE (AOC)	NV STATE CONTROLLER	\$ 2,231.00
187-000-35104	AA FEE - JUSTICE	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 392.00
001-000-35103	AA FEE - JUVENILE	STOREY COUNTY TREASURER	\$ 112.00
170-000-35114	AA FEE STATE (GENERAL)	NV STATE CONTROLLER	\$ 160.00
180-000-35101	AA FEE GENETIC MARKER ANALYSIS	STOREY COUNTY TREASURER	\$ 147.00
001-000-34245	ATTORNEY REIMBURSEMENT FEE	STOREY COUNTY TREASURER	\$ 285.00
	APEAL FEE	STOREY COUNTY TREASURER	\$ -
001-000-34204	BOND PROCESSING FEE	STOREY COUNTY TREASURER	\$ 37.50
001-000-34204	CIVIL FEES	STOREY COUNTY TREASURER	\$ 157.50
187-000-35104	CIVIL FEES - COURT	STOREY COUNTY TREASURER	\$ 214.87
001-000-35101	CHEMICAL ANALYSIS FEE	STOREY COUNTY TREASURER	\$ -
001-000-34204	COPY FEES	STOREY COUNTY TREASURER	\$ 2.63
001-000-35109	FINE - COUNTY	STOREY COUNTY TREASURER	\$ 3,475.00
001-000-35111	COURT FACILITY FEE	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 495.00
170-000-34212	MARRIAGE FEE	NV STATE TREASURER	\$ 25.00
001-000-35109	OVERPAYMENTS TO COUNTY	STOREY COUNTY TREASURER	\$ 5.00
187-000-35044	PRETRIAL SERVICES ACCOUNT	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 29.50
001-000-34204	RECORDS SEARCH	STOREY COUNTY TREASURER	\$ 413.25
170-000-34217	SPECIALTY COURT FEE (MM)	NV STATE CONTROLLER	\$ 343.00
170-000-34206	DUI SPECIALTY COURT FEE	NV STATE CONTROLLER	\$ -
001-000-34204	SMALL CLAIMS FEE	STOREY COUNTY TREASURER	\$ 33.75
170-000-34201	CENSUS FEE	STOREY COUNTY TREASURER	\$ 1.00
170-000-35108	BOND FILING FEE VOC	NV STATE CONTROLLER	\$ 50.00
		DISBURSED TOTAL:	\$ 8,610.00
	AFTER-HOURS MARRIAGE FEES	JP	\$ 70.00

VIRGINIA TOWNSHIP JUSTICE COURT EOP LISTING - ACTUAL - FEBRUARY 2016

Acct		Payee	Disbursed Amount
170-000-34206	AA FEE - STATE (AOC)	NV STATE CONTROLLER	\$ 2,082.00
187-000-35104	AA FEE - JUSTICE	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 336.00
001-000-35103	AA FEE - JUVENILE	STOREY COUNTY TREASURER	\$ 96.00
170-000-35114	AA FEE STATE (GENERAL)	NV STATE CONTROLLER	\$ 175.00
180-000-35101	AA FEE GENETIC MARKER ANALYSIS	STOREY COUNTY TREASURER	\$ 111.00
001-000-34245	ATTORNEY REIMBURSMENT FEE	STOREY COUNTY TREASURER	\$ -
	APPEAL FEE	STOREY COUNTY TREASURER	\$ -
001-000-34204	BOND PROCESSING FEE	STOREY COUNTY TREASURER	\$ 93.75
001-000-34204	CIVIL FEES	STOREY COUNTY TREASURER	\$ 90.00
187-000-35104	CIVIL FEES - COURT	STOREY COUNTY TREASURER	\$ 263.25
001-000-35101	CHEMICAL ANALYSIS FEE	STOREY COUNTY TREASURER	\$ -
001-000-34204	COPY FEES	STOREY COUNTY TREASURER	\$ -
001-000-35109	FINE - COUNTY	STOREY COUNTY TREASURER	\$ 2,944.00
001-000-35111	COURT FACILITY FEE	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 390.00
170-000-34212	MARRIAGE FEE	NV STATE TREASURER	\$ 10.00
001-000-35109	OVERPAYMENTS TO COUNTY	STOREY COUNTY TREASURER	\$ -
187-000-35044	PRETRIAL SERVICES ACCOUNT	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 100.00
001-000-34204	RECORDS SEARCH	STOREY COUNTY TREASURER	\$ 407.25
170-000-34217	SPECIALTY COURT FEE (MM)	NV STATE CONTROLLER	\$ 259.00
170-000-34206	DUI SPECIALTY COURT FEE	NV STATE CONTROLLER	\$ -
001-000-34204	SMALL CLAIMS FEE	STOREY COUNTY TREASURER	\$ 198.75
170-000-34201	CENSUS FEE	STOREY COUNTY TREASURER	\$ 6.00
170-000-35108	BOND FILING FEE VOC	NV STATE CONTROLLER	\$ 125.00
		DISBURSED TOTAL:	\$ 7,687.00
	AFTER-HOURS MARRIAGE FEES	JP	\$ 140.00

VIRGINIA TOWNSHIP JUSTICE COURT EOP LISTING - ACTUAL - MARCH 2016

Acct		Payee	Disbursed Amount
170-000-34206	AA FEE - STATE (AOC)	NV STATE CONTROLLER	\$ 2,677.00
187-000-35104	AA FEE - JUSTICE	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 364.00
001-000-35103	AA FEE - JUVENILE	STOREY COUNTY TREASURER	\$ 104.00
170-000-35114	AA FEE STATE (GENERAL)	NV STATE CONTROLLER	\$ 160.00
180-000-35101	AA FEE GENETIC MARKER ANALYSIS	STOREY COUNTY TREASURER	\$ 165.00
001-000-34245	ATTORNEY REIMBURSMENT FEE	STOREY COUNTY TREASURER	\$ 700.00
	APPEAL FEE	STOREY COUNTY TREASURER	\$ -
001-000-34204	BOND PROCESSING FEE	STOREY COUNTY TREASURER	\$ 18.75
001-000-34204	CIVIL FEES	STOREY COUNTY TREASURER	\$ 105.00
187-000-35104	CIVIL FEES - COURT	STOREY COUNTY TREASURER	\$ 257.00
001-000-35101	CHEMICAL ANALYSIS FEE	STOREY COUNTY TREASURER	\$ 180.00
001-000-34204	COPY FEES	STOREY COUNTY TREASURER	\$ 17.25
170-000-34214	FINE - STATE	NV STATE CONTROLLER	\$ 50.00
001-000-35109	FINE - COUNTY	STOREY COUNTY TREASURER	\$ 8,646.00
187-000-35111	COURT FACILITY FEE	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 565.00
170-000-34212	MARRIAGE FEE	NV STATE TREASURER	\$ 25.00
001-000-35109	OVERPAYMENTS TO COUNTY	STOREY COUNTY TREASURER	\$ -
187-000-29709	PRETRIAL SERVICES ACCOUNT	VIRGINIA TOWNSHIP JUSTICE COURT	\$ 991.56
001-000-34204	RECORDS SEARCH	STOREY COUNTY TREASURER	\$ 596.25
170-000-34217	SPECIALTY COURT FEE (MM)	NV STATE CONTROLLER	\$ 394.50
170-000-34206	DUI SPECIALTY COURT FEE	NV STATE CONTROLLER	\$ 450.00
001-000-34204	SMALL CLAIMS FEE	STOREY COUNTY TREASURER	\$ 33.75
170-000-34201	CENSUS FEE	STOREY COUNTY TREASURER	\$ 1.00
170-000-35108	BOND FILING FEE VOC	NV STATE CONTROLLER	\$ 25.00
		DISBURSED TOTAL:	\$ 16,526.06
	AFTER-HOURS MARRIAGE FEES	JP	\$ 140.00



Storey County Board of County Commissioners Agenda Action Report

Meeting date: April 19, 2016

Estimate of time required: 5 min.

Agenda: Consent Regular agenda Public hearing required

1. **Title:** Approval of Treasurer Report for March 2016

2. **Recommended motion:** Approval of report as submitted

3. **Prepared by:** Vanessa Stephens

Department: Clerk & Treasurer

Telephone: 847-0969

4. **Staff summary:** Report is attached.

5. **Supporting materials:**

6. **Fiscal impact:**

Funds Available:

Fund:

_____ Comptroller

7. **Legal review required:**

_____ District Attorney

8. **Reviewed by:**

_____ Department Head

Department Name: Clerk & Treasurer

 County Manager

Other agency review: _____

9. **Board action:**

Approved

Approved with Modifications

Denied

Continued

Agenda Item No. 7

ADVVAL FOR THE MONTH OF MARCH 2016

TREASURER	001	001-500	150	160	060	170	010	185	001	250	200	001	001-34104	001-36506	165	TOTAL	
	GENERAL	INDUST GID	SCH OP	SCH DB	CAP AQU	STATE	IND MED	IND ACC	YOUTH	FIRE/EMER	TRI Payback	PENALTIES	A/R 6%	OVRPMT	A/R 2%		
2005/2006																	
2006/2007																	
2007/2008																	
2008/2009																	
2009/2010																	
2010/2011																	
2011/2012																	
2012/2013																	
Special Assess																	
Total 2012-2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2013/2014	\$ 110.04	\$ -	\$ 46.59	\$ 8.99	\$ 3.10	\$ 10.55	\$ 0.62	\$ 0.93	\$ 0.28	\$ 33.80	\$ -	\$ 81.66	\$ -	\$ -	\$ -	\$ -	\$ -
Special Assess	\$ 94.47	\$ -	\$ 39.99	\$ 7.72	\$ 2.67	\$ 9.06	\$ 0.53	\$ 0.80	\$ 0.24	\$ 29.04	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total 2013/2014	\$ 204.51	\$ -	\$ 86.58	\$ 16.71	\$ 5.77	\$ 19.61	\$ 1.15	\$ 1.73	\$ 0.52	\$ 62.84	\$ -	\$ 81.66	\$ -	\$ -	\$ -	\$ -	\$ 481.08
Subtotal	\$ 312.98	\$ -	\$ 132.50	\$ 25.56	\$ 8.86	\$ 30.02	\$ 1.77	\$ 2.68	\$ 0.78	\$ 96.18	\$ -	\$ 169.75	\$ -	\$ -	\$ -	\$ -	\$ 781.08
2014/2015	\$ 363.65	\$ -	\$ 153.91	\$ 29.81	\$ 10.25	\$ 34.23	\$ 2.09	\$ 3.08	\$ 0.91	\$ 111.79	\$ -	\$ 134.90	\$ -	\$ -	\$ -	\$ -	\$ -
Special Assess	\$ 363.65	\$ -	\$ 153.91	\$ 29.81	\$ 10.25	\$ 34.23	\$ 2.09	\$ 3.08	\$ 0.91	\$ 111.79	\$ -	\$ 134.90	\$ -	\$ -	\$ -	\$ -	\$ 844.62
TOTAL 2014/2015	\$ 676.63	\$ -	\$ 286.41	\$ 55.37	\$ 19.11	\$ 64.25	\$ 3.86	\$ 5.76	\$ 1.69	\$ 207.97	\$ -	\$ 304.65	\$ -	\$ -	\$ -	\$ -	\$ 1,625.70
TOTAL PRIOR	\$ 276,589.56	\$ 300,637.66	\$ 247,734.90	\$ 47,716.33	\$ 16,178.76	\$ 55,296.44	\$ 3,176.20	\$ 4,825.51	\$ 1,410.12	\$ 177,369.24	\$ -	\$ 3,730.18	\$ -	\$ -	\$ -	\$ -	\$ 1,134,664.90
Special Assess	\$ 276,589.56	\$ 300,637.66	\$ 247,734.90	\$ 47,716.33	\$ 16,178.76	\$ 55,296.44	\$ 3,176.20	\$ 4,825.51	\$ 1,410.12	\$ 177,369.24	\$ -	\$ 3,730.18	\$ -	\$ -	\$ -	\$ -	\$ 1,134,664.90
TOTAL 15/16	\$ 276,589.56	\$ 300,637.66	\$ 247,734.90	\$ 47,716.33	\$ 16,178.76	\$ 55,296.44	\$ 3,176.20	\$ 4,825.51	\$ 1,410.12	\$ 177,369.24	\$ -	\$ 3,730.18	\$ -	\$ -	\$ -	\$ -	\$ 1,134,664.90
TOTAL SECURED	\$ 277,266.19	\$ 300,637.66	\$ 248,021.31	\$ 47,771.70	\$ 16,197.87	\$ 55,360.69	\$ 3,180.06	\$ 4,831.27	\$ 1,411.81	\$ 177,577.21	\$ -	\$ 4,034.83	\$ -	\$ -	\$ -	\$ -	\$ 1,136,290.60
Refund Secured														\$ 1,054.18			\$ 1,054.18
REPORT TOTALS	\$ 277,266.19	\$ 300,637.66	\$ 248,021.31	\$ 47,771.70	\$ 16,197.87	\$ 55,360.69	\$ 3,180.06	\$ 4,831.27	\$ 1,411.81	\$ 177,577.21	\$ -	\$ 4,034.83	\$ -	\$ 1,054.18	\$ -	\$ -	\$ 1,137,344.78
ASSESSOR																	
2013/2014																	
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2014/2015																	
TOTAL PRIOR	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015/2016	\$ 104,131.65	\$ 23,427.59	\$ 53,991.51	\$ 10,417.05	\$ 3,598.98	\$ 12,237.58	\$ 719.53	\$ 1,079.21	\$ 323.80	\$ 39,205.41	\$ 149.82	\$ 16,247.69	\$ -	\$ 5,415.92	\$ -	\$ -	\$ 270,945.74
Overpayment	\$ 104,131.65	\$ 23,427.59	\$ 53,991.51	\$ 10,417.05	\$ 3,598.98	\$ 12,237.58	\$ 719.53	\$ 1,079.21	\$ 323.80	\$ 39,205.41	\$ 149.82	\$ 16,247.69	\$ -	\$ 5,415.92	\$ -	\$ -	\$ 270,945.74
TOTAL UNSEC	\$ 104,131.65	\$ 23,427.59	\$ 53,991.51	\$ 10,417.05	\$ 3,598.98	\$ 12,237.58	\$ 719.53	\$ 1,079.21	\$ 323.80	\$ 39,205.41	\$ -	\$ 149.82	\$ 16,247.69	\$ -	\$ 5,415.92	\$ -	\$ 270,945.74
MISC																	
PX,PC DIST																	
MX DIST																	
PX DIST																	
PC DIST																	
GRAND TOTAL	\$ 381,397.84	\$ 324,065.25	\$ 302,012.82	\$ 58,188.75	\$ 19,796.85	\$ 67,598.27	\$ 3,899.59	\$ 5,910.48	\$ 1,735.61	\$ 216,782.62	\$ -	\$ 4,184.65	\$ 16,247.69	\$ 1,054.18	\$ 5,415.92	\$ -	\$ 1,408,290.52

Report No: Br1762 Run Date : 04/14/16 Run Time : 08:05:45

STOREY COUNTY
TREASURER'S ACCOUNTING
Outstanding Checks
1 Through 999999
0/00/00 - 3/31/16

TP	Check #	Bank Seq	Person #	Vendor/Employee Name	From	Check Date	Amount
CK	81459	199 00	404587	APPELBAUM, TREVOR		2/20/15	25.00
CK	81922	199 00	403959	BENDER, DEBORAH		4/17/15	60.00
CK	81937	199 00	404621	EVANS, CHAD		4/17/15	16.91
CK	81973	199 00	404619	SEAY, JOHN		4/17/15	39.75
CK	82404	199 00	403382	DUFRESNE, JOHN		6/12/15	90.00
CK	82475	199 00	404670	PIPER, LINDA & BARRY		6/12/15	86.05
CK	82591	199 00	404676	JEFFCOAT, HUGH		6/26/15	90.18
CK	82917	199 00	403938	THREE GGG INC		7/24/15	78.00
CK	83250	199 00	404736	HOBSON, TABITHA		9/04/15	75.00
CK	83390	199 00	404697	MURRAY, ANN MARIE ARAGON		9/18/15	14.08
CK	83498	199 00	404764	GRANT, GREG		10/02/15	560.00
CK	83552	199 00	403923	SILVER STATE NATIONAL PEA		10/02/15	35.00
CK	84540	199 00	401456	BUCKET OF BLOOD SALOON		1/22/16	4,500.00
CK	84767	199 00	404815	CARPENTER, JERRY/CARVEY		2/19/16	121.86
CK	84937	199 00	103451	NEVADA JUDGES OF LIMITED		3/04/16	250.00
CK	84943	199 00	403895	PETRINI, ANGELO D		3/04/16	28.00
CK	84955	199 00	200395	SAINTE MARYS ARTCENTER INC		3/04/16	14.50
CK	84985	199 00	403671	BURRELL, SCOTT LEWIS		3/18/16	109.50
CK	84986	199 00	403990	COMSTOCK CEMETERY FOUNDAT		3/18/16	837.00
CK	84999	199 00	403677	CORELOGIC INC		3/18/16	801.00
CK	85009	199 00	103406	FIRE PREVENTION ASSOC NV		3/18/16	75.00
CK	85012	199 00	404826	GENGLER, ELAINE MARIE		3/18/16	90.00
CK	85016	199 00	404191	HARDWICK, WAYNE C		3/18/16	854.25
CK	85033	199 00	404698	LEE, JAMES DONALD		3/18/16	35.41
CK	85034	199 00	404400	LERETA LLC		3/18/16	227.00
CK	85037	199 00	404769	MACKAY MANSION MUSEUM		3/18/16	16.00
CK	85041	199 00	403629	MIGAN, TAMARA		3/18/16	9.77
CK	85050	199 00	101241	NEV PUBLIC AGENCY INS PL		3/18/16	17,026.24
CK	85055	199 00	103277	NORTHERN NEV FIRE CHIEFS		3/18/16	50.00
CK	85060	199 00	403895	PETRINI, ANGELO D		3/18/16	22.00
CK	85074	199 00	404829	FOOTER KING, INC		3/18/16	508.00
CK	85075	199 00	100026	RUPPCO INC		3/18/16	233.10
CK	85079	199 00	404598	SIMONS, MICHAEL		3/18/16	118.49
CK	85092	199 00	403893	VIRGINIA CITY TOURS INC		3/18/16	484.00
ET	49	199 00	404671	PORTER GROUP LLC		3/01/16	6,000.00
ET	328	199 00	404671	PORTER GROUP LLC		3/28/16	6,000.00
PR	34231	199 00	900615	SHERIFF FEE COLLECTION/GA		8/15/14	10.71
PR	34705	199 00	900201	COLONIAL LIFE INS. 125		8/14/15	50.73
PR	34774	199 00	900107	MEDICAL/EMPLOYEE BUYUP		10/09/15	1,143.53
PR	35005	199 00	900399	PET INSURANCE		3/25/16	99.94
PR	35006	199 00	900402	AFSCME/UNION DUES		3/25/16	548.91
PR	35007	199 00	900501	FIRE FIGHTER ASSOC #4227		3/25/16	1,260.00
PR	35009	199 00	1201	DETRICK, RENEE		3/30/16	3,306.31
				Bank Total:			46,001.22
				Total:			46,001.22



Storey County Board of County Commissioners Agenda Action Report

Meeting date: April 19, 2016

Estimate of time required: 0 min

Agenda: Consent Regular agenda Public hearing required

1. **Title:** Correspondence: Monthly Storey County Fire Protection District Report

2. **Recommended motion:** Approve as part of Consent Agenda

3. **Prepared by:** Gary Hames

Department: Storey County Fire Protection District

Telephone:

4. **Staff summary:**

5. **Supporting materials:** Attached

6. **Fiscal impact:**

Funds Available:

Fund:

_____ Comptroller

7. **Legal review required:**

_____ District Attorney

8. **Reviewed by:**

_____ Department Head

Department Name: Commissioner's Office

 County Manager

Other agency review: _____

9. **Board action:**

Approved

Approved with Modifications

Denied

Continued

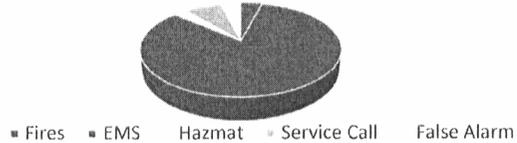
Agenda Item No. 8



STOREY COUNTY FIRE PROTECTION DISTRICT

2016 Year To Date	
Fires	17
EMS	343
Hazmat	10
Service Call	30
False Alarm	16
Total	416

Year To Date Call Volume

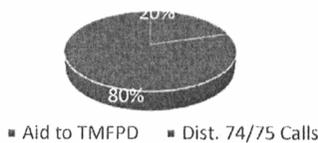


March 2016 Call Volume	
Fires	7
EMS	125
Hazmat	5
Service Call	7
False Alarm	6
Total	150

Internal Statistics Dashboard (03/2016)	
Number of Vol. Responses:	8
Average Response Time:	9:07
Patient Transports March:	42
Patient Transports YTD:	107
Hours spent out of district on transports	93
Highest call volume day of the week:	Saturday

North County Monthly Auto Aid to TM	
Aid to TMFPD	11
Dist. 74/75 Calls	43
North Dist. Total	54

North Dist. Auto Aid



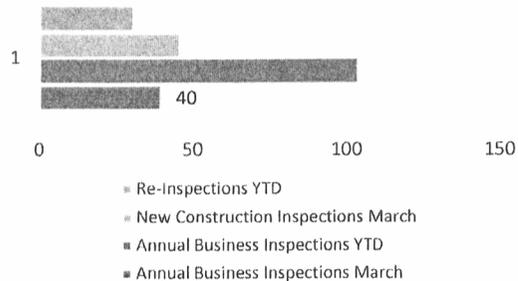
Calls by District (03/2016)	
71 (Virginia City)	56
72 (Virginia City Highlands)	40
74 (Lockwood)	27
75 (McCarran)	27

Calls by district



Fire Prevention (2016)	
Annual Business Inspections March	40
Annual Business Inspections YTD	104
New Construction Inspections March	46
Re-Inspections YTD	31
Number of Fire Permits Issued March	6
Fire Plan Reviews Completed March	35

Inspections



Monthly AOR Completed: (03/2016)

All Department members fit tested for SCBA masks.
All ladders tested and maintenance completed.
All below ground tanks checked.
Standardization completed on all apparatus.
All evacuation barrels inspected.



Storey County Board of County Commissioners Agenda Action Report

Meeting date: 4/19/16

Estimate of time required: 0 - 5

Agenda: Consent Regular agenda Public hearing required

1. **Title:** Business License First Readings

2. **Recommended motion:** None required (if approved as part of the Consent Agenda)
I move to approve all first readings (if removed from consent agenda by request)

3. **Prepared by:** Stacey Bucchianeri

Department: Community Development

Telephone: 847-0966

4. **Staff summary:** First readings of submitted business license applications are normally approved on the consent agenda. The applications are then submitted at the next Commissioners' meeting for approval.

5. **Supporting materials:** See attached Agenda Letter

6. **Fiscal impact:** None

Funds Available:

Fund:

___ Comptroller

7. **Legal review required:** None
___ District Attorney

8. **Reviewed by:**
x Department Head

Department Name: Community Development

7/24/16 County Manager

Other agency review: _____

9. **Board action:**

Approved
 Denied

Approved with Modifications
 Continued

Agenda Item No. 9

Storey County Community Development

Business Licensing



P O Box 526 • Virginia City NV 89440 • (775) 847-0966 • Fax (775) 847-0935 • buslic@storeycounty.org

To: Vanessa Stephens, Clerk's Office
Pat Whitten, County Manager

April 11, 2016
Via email

Fr: Stacey Bucchianeri

Please add the following item(s) to the April 19, 2016, COMMISSIONERS Consent Agenda:

LICENSING BOARD FIRST READINGS:

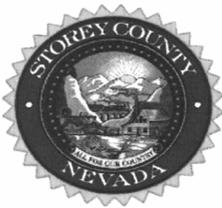
- A. FERNTUCKY BBQ – General / 4520 Glenwood Drive ~ Fernley (Food Truck)
- B. ANCHOR DOOR & HARDWARE, INC. – Contractor / 335 Edison Way ~ Reno (doors, frames cont.)
- C. WIRTZ MFG. CO., INC. – Contractor / 1105 24th St ~ Port Huron, MI (equipment setting)
- D. GREG A. BAILOR – Contractor / 405 Sparrow Way ~ Carson City (drywall & painting contractor)
- E. ENHANCED ELECTRICAL SERVICES, INC. – Contractor / 888 Deming ~ Sparks (elect cont.)
- F. IT'S MY COMMUNITY STORE, LLC – General / 1140 Financial Blvd ~ Reno (office supply sales)
- G. ENVIRONMENTAL WATER SOLUTIONS, INC. – Contractor / 1162 E. Dominguez ~ Carson, CA (equip. svcs.)
- H. STANLEY ACCESS TECH, LLC – Contractor / 6225 S Valley Blvd ~ Las Vegas (automatic doors)
- I. CHIKUSHI ELECTRIC CO., LTD. – Contractor / Amagasaki, JAPAN (machine installation)
- J. AQUA TECH CO., LTD. – Contractor / Fukuoka, JAPAN (machine installation)
- K. ENVIROTROL, LLC – Contractor / 114 Landmark Dr., ~ Greensboro, NC (hvac contractor)
- L. CAPSTONE LOGISTICS, LLC – Contractor / 6325 The Corners Pkwy ~ Peachtree Corners, GA (warehouse services)
- M. SWITCH BUSINESS SOLUTIONS, LLC – General / 1705 Peru Drive TRI
- N. SWITCH, LTD – General / 1705 Peru Drive TRI
- O. SWITCH RIG, LLC – General / 1705 Peru Drive TRI

Inspection Required

cc: Chris Hood, Building Dept.
Austin Osborne, Planning Dept.
Dean Haymore, Comm Dev.

Gary Hames, Fire Dept.
Patty Blakely, Fire Dept.
Fritz Klingler, Fire Dept.

Sheriff's Office
Assessor's Office
Commissioners' Office



Storey County Board of County Commissioners Agenda Action Report

Meeting date: April 19, 2016

Estimate of time required: 5 minutes

Agenda: Consent Regular agenda Public hearing required

1. **Title:** DISCUSSION/POSSIBLE ACTION: Approval and acceptance of a National Park Service Land and Water Conservation Grant award in the amount of \$30,000 for replacement of Playground Equipment and Improved Amenities at Miners Park and authorization for Cherie Nevin to sign all associated grant documentation.

2. **Recommended motion:** I move to approve the National Park Service Land and Water Conservation Grant award in the amount of \$30,000 for replacement of Playground Equipment and Improved Amenities at Miners Park and authorization for Cherie Nevin to sign all associated grant documentation.

3. **Prepared by:** Cherie Nevin
Department: Community Relations

Telephone: 847-0986

4. **Staff summary:** Storey County applied for a National Park Service Land and Water Conservation Grant in May 2015 for replacement of the aging playground equipment and improved walking surfaces at Miner’s Park in Virginia City. This grant is administered by Nevada State Parks. The grant agreement was received on April 7, 2016. This project includes site preparation, demolition of outdated and unsafe playground equipment and replacement of the playground equipment with appropriate equipment that will provide a safe outdoor recreational space. The project will also improve play and walkway surfaces by installing playground bark under the playground equipment and extending a paver walkway for easier access to the play area by all who visit the park.

Miner’s Park is the only park in the Virginia City area and is used on a daily basis by the children and visitors to our community. We want to make sure that our community has a safe place to play for outdoor recreation for generations to come and enjoy the outdoor space. The grant requires a match of \$30,532 which will come from a cash match and an in-kind match.

5. **Supporting materials:** Grant Application
Project Agreement and General Provision

6. **Fiscal impact:**

Funds Available: YES

Fund: Park Fund/Bldg and Grounds___ Comptroller

7. **Legal review required:**

___ District Attorney

8. **Reviewed by:**

 Department Head
 County Manager

Department Name: Community Relations

Other agency review: _____

9. **Board action:**

Approved
 Denied

Approved with Modifications
 Continued

LWCF APPLICATION PART 1
Project Narrative and Grant Cover Sheet

1. Project Name:

Miner's Park Playground Improvement

2. Contact Information:

List the name, mailing address, telephone number and office location of the following:

- a. Agency submitting application – **Storey County, Nevada**
- b. Name, phone email of the person having day-to-day responsibility for the project
Cherie Nevin, Community Services Officer
775-847-0986
cnevin@storeycounty.org

EIN: 88-6000134

DUNS #: 073794968

3. Geographic Location

Address: 106 Carson Street

City: Virginia City

County: Storey

Lat and long: 39 18 51.628618, -119 38 47.142453

4. Project Description

BE VERY BRIEF (keep this cover sheet to one page if possible.

This project includes site preparation, demolition of outdated and unsafe playground equipment and replacement of the playground equipment with appropriate equipment that will provide a safe outdoor recreational space at Miner's Park in Virginia City. The project will also improve play and walkway surfaces by installing playground bark under the playground equipment and extending a paver walkway for easier access to the play area by all who visit the park.

Miner's Park is the only park in the Virginia City area and is used on a daily basis by the children and visitors to our community. We want to make sure that our community has a safe place to play for outdoor recreation for generations to come and enjoy the outdoor space.

Describe how and when the deed restriction on the property will be completed if not already in place and proof submitted with application.

Deed attached

LWCF APPLICATION PART 2
PD-ESF - Project Description and Environmental Screening Form

- **INSTRUCTIONS: IT IS RECOMMENDED THAT YOU TYPE DIRECTLY INTO THE FORM. DO NOT RE-FORMAT THE FORM.**
- **Use a different font, color and italics to make it easier to follow your responses, within the form.**
- **Do not fill out sections that are not applicable, follow the directions carefully and call for help if needed (775) 684 2787. jscanland@parks.nv.gov**



LWCF Proposal Description and Environmental Screening Form

The purpose of this Proposal Description and Environmental Screening Form (PD/ESF) is to provide descriptive and environmental information about Land and Water Conservation Fund (LWCF) proposals for National Park Service (NPS) review and decision. The PD/ESF becomes part of the federal administrative record in accordance with the National Environmental Policy Act (NEPA) and its implementing regulations. The PD portion of the form captures administrative and descriptive details to enable NPS understanding of the proposal. The ESF portion is designed for use as a tool by States/project sponsors to draft out as early as possible in project planning to assist in the identification of potential environmental impacts and related issues/strategies. Upon completion, the ESF will indicate the potential degree of environmental impact so that the State/project sponsor will more accurately be able to select an appropriate pathway for NEPA analysis: a categorical exclusion (CE), an Environmental Assessment (EA) or an Environmental Impact Statement (EIS). The ESF should also be used to document previously conducted and still viable environmental analysis. The completed PD/ESF must be submitted as part of the State's LWCF application or proposal to NPS.

Except for the proposals listed below, the completed PD/ESF **must** be completed and signed by the State and accompany each new federal application for LWCF assistance (Standard Form 424), and amendments for scope changes that alter or add facilities and/or acres, including proposals for conversions, public facility exceptions, sheltering outdoor facilities, and changing the original intended use of an area from that which was approved in an earlier LWCF agreement. Consult the LWCF Grants Manual (www.nps.gov/lwcf) for detailed guidance on additional information required for your type of proposal and for further guidance on how to comply with NEPA.

For the following types of proposals, only this cover page is required because these proposals are categorically excluded from further NEPA environmental analysis. NPS will complete the NEPA Categorical Exclusion Form for you. Simply check the applicable box below, and complete and submit this Cover Page to NPS along with the other items required for your type of proposal as explained in the LWCF Grants Manual.

- SCORP planning proposal
- Time extension with no change in project scope or with a reduction in project scope
- To delete work **and** no other work is added back into the project scope
- To change project cost with no change in project scope or with a reduction in project scope

Name of LWCF Proposal: **Miner's Park Playground Improvement Project**

Prior LWCF Project Number(s) List all prior LWCF project numbers and other park names associated with site(s):

32-00102	STOREY COUNTY	Miner's Park
32-00183	STOREY COUNTY	A Miner's Park Lights
32-00172	STOREY COUNTY	F Miner's Park Phase II

Local or State Sponsoring Agency: **Storey County**

Local or State Sponsor Contact:

Name/Title: Cherie Nevin, Community Services Officer
Office/Address: 372 South C Street/PO Box 7 Virginia City, NV 89440
Phone/Fax: 775-847-0986 (p) 775-847-1105 (f) **Email:** cnevin@storeycounty.org

It is RECOMMENDED THAT YOU insert/type directly into this form. You may use a separate sheet for narrative descriptions and explanations, address each item and question in the order it is presented, keying it to the associated item, such as Step 1-A1, A2; Step 3-B1; Step 6-A1, A29; etc.

Step 1. Type of LWCF Proposal

New Project Application

- Acquisition** *Go to Step 2A*
 Development *Go to Step 2B*
 Combination Acq. & Development) *Go to Step 2C*

Project Amendment

- ~~**Increase in scope or change in scope from original agreement.**~~ *Complete Steps 3A, and 5 through 7.*
 ~~**6(f) conversion proposal.**~~ *Complete Steps 3B, and 5 through 7.*
 ~~**Request for public facility in a Section 6(f) area.**~~ *Complete Steps 3C, and 5-7.*
 ~~**Request for temporary non-conforming use in a Section 6(f) area.**~~ *Complete Steps 4A, and 5 through 7.*
 ~~**Request for significant change in use/intent of original LWCF application.**~~ *Complete Steps 4B, and 5 through 7.*
 ~~**Request to shelter existing/new facility within a Section 6(f) area regardless of who funds the work.**~~ *Complete Steps 4C, and 5 through 7.*

Step 2. New Project Application (See LWCF Manual for guidance.)

A. For an Acquisition Project

1. Provide a brief narrative about the proposal that provides the reasons for the acquisition, number of acres to be acquired with LWCF assistance, and describes the property. Describe and quantify the types of existing resources and features on the site (for example, 50 acres wetland, 2,000 feet beachfront, 200 acres forest, scenic views, 100 acres riparian, vacant lot, special habitat, any unique or special features, recreation amenities, historic/cultural resources, hazardous materials/ contamination history, restrictions, institutional controls, easements, rights-of-way, above ground/underground utilities, including wires, towers, etc.)
2. Will this acquisition create a **new** public park/recreation area where none previously existed and is not an addition to an existing public park/recreation area? Yes ____ (go to #4) No ____ (go to #3)
3. a. What is the name of the pre-existing public area that this newly acquired site will be added to?
 b. Is the pre-existing public park/recreation area already protected under Section 6(f)? Yes ____ No ____
 If no, will it now be included in the 6(f) boundary? Yes ____ No ____
4. What will be the name of this **new** public park/recreation area?
5. How will the site be made immediately open and accessible for public outdoor recreation use (signage, entries, parking, site improvements, allowable activities, etc.)?
6. Describe future development plans, if any, proposed for the site(s) within the next three (3) years.
7. SLO must complete the State Appraisal Review certification in Step 7 certifying that the appraisals meet the "Uniform Appraisal Standards for Federal Land Acquisitions." State should retain copies of the appraisals and make them available if needed.
8. Address each item in "D" below.

B. For a Development Project

1. Describe the physical improvements and/or facilities that will be developed with federal LWCF assistance, including where and how the public will access the site, including parking, if any. Indicate entrances on 6(f) map. Indicate to what extent the project involves new development, rehabilitation, and/or replacement of existing facilities.

This project includes site preparation, demolition of outdated and unsafe playground equipment and replacement of the playground equipment with appropriate equipment that will provide a safe outdoor recreational space at Miner’s Park in Virginia City. The project will also improve play and walkway surfaces by installing playground bark under the playground equipment and extending a paver walkway for easier access to the play area by all.

Miner’s Park is the only park in the Virginia City area and is used on a daily basis by the children and visitors to our community. We want to make sure that our community has a safe play area for outdoor recreation for generations to come and enjoy the outdoor space.

2. Will this proposed development create a **new** park for the first time on land that has not been previously designated as park and recreation land, such as public vacant or undeveloped land? (Do not count development on land previously dedicated for public park and recreation use.) Yes ____ **NO X**
3. When will the project be completed and the public allowed onto the improved site? **Upon Notice of Grant Award, Storey County staff will work with State Lands Staff to work through all steps to procure equipment and services.**
4. Address each item in “D” below.

C. For a Combination Project

1. For the acquisition part of the proposal:
 - a. Provide a brief narrative about the proposal that provides the reasons for the acquisition, number of acres to be acquired with LWCF assistance, and describes the property. Describe and quantify the types of existing resources and features on the site (for example, 50 acres wetland, 2,000 feet beachfront, 200 acres forest, scenic views, 100 acres riparian, vacant lot, special habitat, any unique or special features, recreation amenities, historic/cultural resources, hazardous materials/ contamination history, restrictions, institutional controls, easements, rights-of-way, above ground/underground utilities, including wires, towers, etc.)
 - b. Will this acquisition create a **new** public park/outdoor recreation area where none previously existed **and** is not an addition to an existing public park/recreation area? Yes ____ (go to “e” below) No ____ (go to “c”)
 - c. What is the name of the pre-existing public park/recreation area to which this newly acquired site will be added?
 - d. Is the pre-existing public park/recreation area already protected under Section 6(f)? Yes ____ No ____.
If no, will it now be included in the 6(f) boundary? Yes ____ No ____.
 - e. What will be the name of this **new** public park/recreation area?
 - f. How will the site be made immediately open and accessible for public outdoor recreation use (signage, entries, parking, site improvements, allowable activities, etc.)?
 - g. Describe future development plans, if any, proposed for the site(s) within the next three (3) years.
 - h. SLO must complete the State Appraisal Review certification found in the box at Step 7 certifying that the appraisals meet the “Uniform Appraisal Standards for Federal Land Acquisitions.” State should retain copies of the appraisals and make them available if needed.

2. For the development part of the proposal:
 - a. Describe the physical improvements and/or facilities that will be developed with federal LWCF assistance, including where and how the public will access the site, including parking, if any. Indicate access points on 6(f) map. Indicate to what extent the project involves new development, rehabilitation, and/or replacement of existing facilities.
 - b. When will the project be completed and the public allowed onto the improved site?
3. Address each item in "D" below.

D. Additional items to address for a new application and amendments

1. a. Who will hold title to the property benefiting from LWCF assistance?
Storey County
- b. What is the type of control/tenure? Check one:
 - Fee simple ownership**
 - Less than fee simple. Explain:
 - Lease. Describe terms of lease including renewable clauses and number of years remaining on lease. Submit copy of lease with this PD/ESF. (See LWCF Manual for detailed guidance on leases.)
2. Explain who, other than public agency owner, will retain any right-of-ways/easements to or will be leasing the area to be placed under Section 6(f)? Indicate the location on 6(f) map. Do the parties understand that a Section 6(f) park land conversion may occur if private or non-recreation activities take place on the right-of-way/easement/leased areas? **Not Applicable**
3. Who will manage and operate the site(s)? **Storey County**
4. As a result of this project, describe **new** types of outdoor recreation opportunities and capacities, and short and long term public benefits. **This project will provide improved outdoor recreation opportunities with playground equipment that is safe and accessible to all. The public will benefit from this new equipment for many years to come.**
5. Explain any existing non-recreation and non-public uses that will continue on the site(s) and/or proposed for the future within the 6(f) boundary. **This site will continue to be maintained as a public park for future generations to use and enjoy in Virginia City.**
6. Describe the planning process that led to the development of this proposal. Your narrative should address:
 - a. How was the interested and affected public notified and provided opportunity to be involved in planning for and developing your LWCF proposal? Who was involved and how were they able to review the **completed** proposal? Include state, local, federal agency professionals, subject matter experts, members of the public and Indian Tribes. Describe any public meetings held and/or formal public comment periods, including dates and length of time provided the public to participate in the planning process and/or to provide comments.
Storey County has worked with our schools and other community groups that use the park to seek their input on improving the playground area. This project has also been mentioned with input being sought from our county commission and general public. We received letters of support from the two biggest users of the park as you will find attached.

b. What information was made available to the public for review and comment? Did the sponsor provide written responses addressing the comments?

The current playground equipment is 30 years and in a state of deterioration and does not meet standards for playgrounds and poses a liability to Storey County. Miner’s Park was constructed in the 1970’s and has served as a gathering place for the community since that time. We have reached out to our local non-profit social service organization Community Chest and the School District for their input on the project. Both of these organizations support this project and have provided letters of support. This project was also discussed with our county staff and at county commission meetings. This park serves not only the community of Virginia City but surrounding communities and our entire county and the large tourist population that visits Virginia City each year. The park is located next to our community center and swimming pool and is used each and every day.

7. How does this proposal implement statewide outdoor recreation strategies from the SCORP (listed below)? Please put N/A where the project does not apply.

SCORP Strategies:

1. *Ensure proper maintenance and upkeep of existing outdoor recreation facilities. Manage impacts to outdoor recreation sites from increasing usage.*
2. *Provide an appropriate level of facilities and services at outdoor recreation sites.*
3. *Ensure sufficient ongoing funding for existing and planned outdoor recreation facilities.*
4. *Promote conservation of statewide water resources and wild land areas. Strive to work with partners to gain landscape level conservation: river, riparian and natural water bodies and land conservation for wildlife and their habitats. N/A*
5. *Maintain and improve access to public land. N/A*
6. *Maximize connectivity of existing and planned public trail systems. N/A*
7. *Increase public information resources about outdoor recreation and educational facilities and opportunities at outdoor recreation sites. N/A*
8. *Increase public outreach on outdoor recreation to children, students and currently underserved populations.*

8. List the source(s) and amounts of financial match to the LWCF federal share of the project. The value of the match can consist of cash, donation, and in-kind contributions:

Source	Type of Match	Value
Storey County Funding	In-Kind Labor	\$3,200.00
Storey County Funding	Cash	\$27,332.00
	TOTAL	\$30,532.00

9. Is this LWCF project/proposal part of a larger effort not reflected on the SF-424 (*Application for Federal Assistance*) and grant agreement? If so, briefly describe the larger effort, funding amount(s) and source(s). This will capture information about partnerships and how LWCF plays a role in leveraging funding for projects beyond the scope of this federal grant. **Not Applicable**
10. List all required federal, state, and local permits needed for the proposal and explain their purpose and status. **Storey County will obtain all required permits as needed for this project and work closely with Nevada Division of State Parks to make sure that all permit requirements are met.**

Proceed to Steps 5 through 7



Step 3. Project Amendment (See LWCF Manual for guidance.)

A. Increase/Change in Project Scope

1. **For Acquisition Projects:** To acquire additional property that was not described in the original project proposal and NEPA documentation, follow Step 2A Acquisition Project and 2D.
2. **For Development Projects:** To change the project scope for a development project that alters work from the original project scope by adding elements or enlarging facilities, follow Step 2B Development Project and 2D.
3. **For Combination Projects:** Follow Step 2C as appropriate.

B. Section 6(f) Conversion Proposal

Prior to developing your Section 6(f) conversion proposal, you must consult the LWCF Manual and 36 CFR 59 for complete guidance on conversions. Local sponsors are encouraged to consult early with the State LWCF manager when a conversion is under consideration or has been discovered. States are also encouraged to consult with their NPS LWCF manager as early as possible in the conversion process for guidance and to sort out and discuss details of the conversion proposal to avoid mid-course corrections and unnecessary delays. An important first step is for the State and NPS to agree on the size of the Section 6(f) parkland impacted by any non-recreation, non-public use, especially prior to any appraisal activity.

For NPS review and decision, the following elements are required to be included in the State's completed conversion proposal to be submitted to NPS:

1. A letter of transmittal from the SLO recommending the proposal.
2. Describe in detail the sponsor's need to convert the Section 6(f) parkland including all efforts to consider other practical alternatives to this conversion, how they were evaluated, and the reasons they were not pursued.
3. Provide a statement on how the conversion is in accord with the State Comprehensive Outdoor Recreation Plan (SCORP).
4. Complete the State Appraisal Review certification in Step 7 for both the converted and replacement parcels certifying that the appraisals meet the "Uniform Appraisal Standards for Federal Land Acquisitions." States should retain copies of the appraisals and make them available if needed.
5. For the parkland proposed for conversion:
 - a. Identify the specific location, 9-digit zip code, and name of park or recreation area proposed for conversion.
 - b. Describe the area proposed for the conversion including the acreage to be converted and any acreage remaining. For determining the size of the conversion, consider not only the physical footprint of the non-recreation development/activities but how the development/activities will impact the entire 6(f) park area. In many cases the size of the converted area is larger than the physical footprint. Describe the recreation

resources, facilities, and recreation opportunities that will be impacted, displaced or lost by the proposed conversion. For proposals to partially convert a Section 6(f) park area, the remaining 6(f) parkland must remain recreationally viable and not be impacted by the non-recreation activities that are triggering the conversion. If it is anticipated that the non-recreation activities overlap and impact the remaining Section 6(f) area, the proposed area for the conversion should be expanded to encompass all impacted parkland.

- c. Describe the community and population served by the park, including who uses the park and how?
 - d. For partial conversions, where only a portion of the Section 6(f) area is proposed for conversion, produce a revised 6(f) map clearly indicating both the portion that is being converted and the portion remaining intact under Section 6(f).
6. For the proposed replacement site(s):
- a. Produce a location map indicating specific location of site(s) and associated 9-digit zip code(s), clearly indicating major roadways and waterways. If site(s) will be added to an existing public park/outdoor recreation area, indicate on map. Show geographical relationship between replacement site(s) and Section 6(f) converted parkland.
 - b. Describe the site's physical characteristics and resource attributes and quantify the types of resources and features on the site (for example, 15 acres wetland, 2,000 feet beachfront, 50 acres forest, scenic views, 75 acres riparian, vacant lot, special habitat, any unique or special features, structures, recreation amenities, historic/cultural resources, hazardous materials/contamination history, restrictions, institutional controls, easements, rights-of-way, overhead/underground utilities including overhead wires, towers, etc.
 - c. Identify the replacement site (s) owner(s) and its recent history of use/function up to the present.
 - d. Explain in detail how the proposed replacement site(s) is of reasonably equivalent usefulness and location as the property being converted. Describe the recreation needs that will be met by the new replacement parks, populations to be served, and new outdoor recreation resources, facilities, and opportunities to be provided.
 - e. Who will own and manage the new replacement park(s)?
 - f. What will be the name(s) of the new replacement park(s)? If replacement park(s) will be added to an existing public park area, will the existing area be included within the 6(f) boundary? What is the name of the existing public park area?
 - g. Provide a timeframe for completing the new park area(s) and making it available for public outdoor recreation use.
 - h. Produce new Section 6(f) map(s) for the new replacement park(s).

Environmental analysis must be conducted for converted and replacement sites.

Proceed to Steps 5 through 7



C. Proposal for a Public Facility in a Section 6(f) Area

Prior to developing this proposal, you must consult the LWCF Manual for complete guidance. In summary, NPS must review and decide on requests to construct a public facility within a Section 6(f) area. In certain cases NPS approval may be given to construct public facilities within a Section 6(f) area where it can be shown that there is a gain or increased benefit to public recreational opportunity. In most cases, development of non-recreation public facilities within a Section 6(f) area constitutes a conversion. Describe in detail the public facility proposed and include the following information, if appropriate:

1. A letter of transmittal from the SLO recommending the proposal.
2. Indicate the location of the proposed public facility on a Section 6(f) map.
3. Describe the design of the proposed public facility and explain how it will be compatible with outdoor recreation, how it supports the outdoor recreation resources of the site whether existing or planned, how it will increase

~~outdoor recreation use, and how outdoor recreation use remains the primary function of the site. (The public's outdoor recreation use must continue to be greater than that expected for any indoor use, unless the site is a single facility, such as a swimming pool, which virtually occupies the entire site.)~~

- ~~4. Explain the location alternatives considered for the public facility and why they were not pursued.~~
- ~~5. When will the facility be open to the public and what will they be able to do there? Describe all functions of the facility including any offices, residential uses or lodging.~~
- ~~6. Explain any memberships or user fees that will be instituted, including the fee structure.~~
- ~~7. Consult the LWCF Manual for any additional requirements and guidelines prior to developing the proposal.~~

Proceed to Steps 5 through 7



Step 4. Proposals for Temporary Non-Conforming Use, Significant Change in Use, and Sheltering Facilities (See LWCF Manual for guidance.)

A. Proposal for Temporary Non-Conforming Use

~~Prior to developing this proposal, you must consult the LWCF Manual for complete guidance. NPS must review and decided on requests for temporary uses that do not meet the requirements of allowable activities within a Section 6(f) area. A temporary non-conforming use is limited to a period of six months (180 days) or less. Continued use beyond six months will not be considered temporary, and may result in a Section 6(f)(3) conversion of use requiring the replacement of converted parkland. For NPS review, describe the temporary non-conforming use (activities other than public outdoor recreation) in detail including the following information:~~

- ~~1. A letter of transmittal from the SLO recommending the proposal.~~
- ~~2. Describe in detail the proposed temporary non-conforming use, why it is needed, and alternative locations that were considered and why they were not pursued.~~
- ~~3. Explain length of time needed for the temporary non-conforming use and why.~~
- ~~4. Describe the size of the parkland area affected by a temporary non-conforming use and the impacts to public use of the Section 6(f) area. The proposal should explain efforts to keep the size of the area impacted by the non-recreation use to a minimum. Indicate the location of the non-conforming use on the site's 6(f) map.~~
- ~~5. Describe any anticipated temporary/permanent impacts to the Section 6(f) area and how the sponsor will mitigate them during and after the non-conforming use ceases.~~
- ~~6. Consult the LWCF Manual for additional requirements and guidelines before developing the proposal.~~

Proceed to Steps 5 through 7



B. Proposal for Significant Change in Use

~~Prior to developing the proposal, you must consult the LWCF Manual for complete guidance. NPS approval must be obtained prior to any change from one eligible use to another when the proposed use would significantly contravene the original plans or intent for the area outlined in the original LWCF application for federal assistance. NPS approval is not required for each and every facility use change. For proposals that will **significantly** change the use of a LWCF-assisted site (e.g., from passive to active recreation), address the following points:~~

- ~~1. A letter of transmittal from the SLO recommending the proposal.~~
- ~~2. Describe proposed changes and how they significantly contravene the original plans or intent of LWCF agreements.~~
- ~~3. Explain the need for the change in use and how the change is consistent with local plans and the SCORP.~~
- ~~4. Consult the LWCF Manual for additional requirements and guidelines before developing the proposal.~~

Proceed to Steps 5 through 7



C. Proposal for Sheltering Facilities

~~Prior to developing this proposal, you must consult the LWCF Manual for complete guidance. NPS must review and decide on all proposals to shelter an existing outdoor recreation facility or construct a new sheltered recreation facility within a Section 6(f) area with or without LWCF assistance. The proposal must demonstrate that there is a gain or increased benefit to public recreation opportunity. Describe the sheltering proposal in detail, including the following information:~~

- ~~1. A letter of transmittal from the SLO recommending the proposal.~~
- ~~2. Describe the proposed sheltered facility, how it would operate, how the sheltered facility will include recreation uses that could typically occur outdoors, and how the primary purpose of the sheltered facility is recreation use.~~
- ~~3. Explain how the sheltered facility would not substantially diminish the outdoor recreation values of the site including how the sheltered facility will be compatible and significantly supportive of the outdoor recreation resources present and/or planned.~~
- ~~4. Explain how the sheltered facility will benefit the total park's outdoor recreation use.~~
- ~~5. Describe efforts provided to the public to review the proposal to shelter the facility and has local support.~~
- ~~6. Document that the sheltered facility will be under the control and tenure of the public agency which sponsors and administers the original park area.~~
- ~~7. Consult the LWCF Manual for additional requirements and guidelines before developing the proposal.~~

Proceed to Steps 5 through 7



Step 5. Summary of Previous Environmental Review

Describe any prior environmental review undertaken at any time and still viable for this proposal or related efforts that could be useful to understanding potential environmental impacts. Consider previous local, state, federal (e.g. HUD, EPA, USFWS, FHWA, DOT) and other environmental reviews. At a minimum, address the following:

1. Date of review.
2. Purpose for the review and for whom.
3. Project scope and proposed actions and alternatives.
4. Who was involved in identifying resource impact issues/strategies and developing the proposal?
Including the interested and affected public, government agencies, and Indian tribes.
5. Environmental resources analyzed and determination of impacts.
6. Any mitigation measures stipulated in the plan to be part of the proposed action.
7. Public comment periods (how long, when in the process, who was invited to comment)
and agency response to public comments.
8. Any formal decision regarding degree of potential impacts to the human environment.
9. Was the LWCF federal action and/or any other federal actions analyzed/reviewed in previous environmental reviews? If so, how and what impacts were identified? Provide specific references.

Use resource impact information generated during previous environmental reviews and from recently conducted site inspections to complete the Environmental Screening Form (ESF) portion of this PD/ESF under Step 6. Your responses should indicate your proposal's potential for impacting each resource as identified in the previous environmental review, including a reference to where the analysis can be found in the document. If the previous

environmental review proposed actions to mitigate impacts, summarize the mitigation for each resource as appropriate. The environmental review document(s) must be included with this PD/ESF in the proposal package submitted to NPS for federal review.

Proceed to Steps 6 through 7



Step 6. Environmental Screening Form (ESF)

This ESF portion of this PD/ESF is a working tool for planners and decision-makers to use to identify the degree of potential impacts to resources that may occur as a result of federal approval of the proposal. It also serves as the administrative record documenting the project sponsor's efforts to identify and consider impacts during proposal development. Your ESF responses may change as the planning process refines the proposal that will ultimately be submitted along with the final completed ESF for federal review and decision.

The scope of the required environmental analysis will vary according to the type of LWCF proposal. For example, the scope for a new LWCF project will differ from the scope for a conversion. Consult the LWCF Manual for guidance on defining the scope or extent of environmental analysis needed for your LWCF proposal. As early as possible in your planning process, consider how your proposal/project may have direct, indirect and cumulative impacts on the human environment. By early identification of possible environmental resource impacts, the information will be useful during proposal development, including ways to lessen impacts. Initiating or completing environmental analysis after a decision has been made is contrary to both the spirit and letter of the law of the National Environmental Policy Act. .

The ESF should be completed with input from resource experts and in consultation with relevant local, state, tribal and federal governments, as applicable. The interested and affected public should be notified of the proposal and invited to provide input as well. At a minimum, a site inspection of the affected area must be conducted by individuals who are familiar with the type of affected resources, possess the ability to identify potential resource impacts, and to know when to seek additional data when needed.

At the time of proposal submission to NPS for federal review, the completed ESF should reflect the project sponsor's final determination of the extent to which the proposal will impact the list of resources on the form. The results of the completed ESF will inform the State's choice of which NEPA pathway to follow, i.e., categorical exclusion (CE), environmental assessment (EA), environmental impact statement (EIS). Also, the completed ESF will identify the resource topics and issues/strategies that should be presented and analyzed in an EA or an EIS, if required. Consult the LWCF Manual for further guidance on LWCF and NEPA.

The ESF contains two parts that must be completed:

A. Impacts to Environmental Resources

B. Mandatory Criteria

Part A: For each environmental resource topic, choose an impact estimate level (none, negligible, minor, exceeds minor) that describes the degree of potential negative impact that may occur directly, indirectly and cumulatively as a result of federal approval of your proposal. These impact levels should be used to estimate specific impact levels on each separate resource and must be accompanied with a brief explanation of how the resource might be affected, how the impact level was determined, and why the chosen impact level is appropriate. If an environmental review has already been conducted on your proposal and it includes planned mitigation, explain this for each applicable resource and choose an impact level as mitigated. If the resource does not apply to your proposal, mark NA in the first column. Add any relevant resources (see A23) if not included in the list.

Part B: This is a list of mandatory impact criteria that preclude the use of categorical exclusions. If you answer "yes" or "maybe" for any of the mandatory criteria, you must proceed to develop an EA or EIS regardless of your answers in Part A.

Use a separate sheet to explain all potential negative impacts (negligible, minor and those exceeding minor) as well as to indicate the type of data that still needs to be determined for each of the applicable resources listed below. Describe direct, indirect and cumulative impacts as well as explain any planned mitigation already addressed in previous environmental reviews. For the Mandatory Criteria, explain all "yes" and "maybe" answers.

A. ENVIRONMENTAL RESOURCES	No Impacts or Not Applicable	Negligible Impacts	Minor Impacts	Impacts Exceed Minor EA/EIS required	More Data Needed to Determine EA/EIS required
1. Geological resources: soils, bedrock, slopes, streambeds, landforms, etc.					
2. Air quality					
3. Sound (noise impacts)					
4. Water quality/quantity					
5. Stream flow characteristics					
6. Marine/estuarine					
7. Floodplains/wetlands					
8. Land use/ownership patterns; property values; community livability					
9. Circulation, transportation					
10. Plant/animal/fish species of special concern and habitat; state/federal listed or proposed for listing					
11. Unique ecosystems, such as biosphere reserves, World Heritage sites, old growth forests, etc.					
12. Unique or important wildlife/wildlife habitat					
13. Unique or important fish/habitat					
14. Introduce or promote invasive species (plant or animal)					
15. Recreation resources, including parks, open space, conservation areas, rec. trails, facilities, services, opportunities, public access, etc.)					
16. Overall aesthetics, special characteristics/features					
17. Historical/cultural resources, including landscapes, ethnographic, archeological, structures, etc. Attach SHPO determination.					
18. Socioeconomics, including employment, occupation, income changes, tax base, infrastructure					
19. Minority and low-income populations					
20. Energy resources (geothermal, fossil fuels, etc.)					
21. Other agency or tribal land use plans or policies					
22. Land/structures with history of contamination/hazardous materials even if remediated					
23. Other important environmental resources that should be addressed					

B. MANDATORY CRITERIA If your LWCF proposal is approved, would it...	Yes	No	To be determined
1. Have significant impacts on public health or safety?			
2. Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation, or refuge lands, wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (E.O. 11990); floodplains (E.O. 11988); and other ecologically significant or critical areas.			
3. Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA section 102(2) (E)]?			
4. Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks?			
5. Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?			
6. Have a direct relationship to other actions with individually insignificant, but cumulatively significant, environmental effects?			
7. Have significant impacts on properties listed or eligible for listing on the National Register of Historic Places, as determined by either the bureau or office. (Attach SHPO Comments)			
8. Have significant impacts on species listed or proposed to be listed on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species.			
9. Violate a federal law, or a state, local, or tribal law or requirement imposed for the protection of the environment?			
10. Have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898)?			
11. Limit access to access to and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007)?			
12. Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area, or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112)?			

Environmental Reviewers

The following individual(s) provided input in the completion of the environmental screening form.
List all reviewers including name, title, agency, field of expertise. Keep all environmental review records and data on this proposal in state compliance file for any future program review and/or audit.

- 1.
- 2.
- 3.

The following individuals conducted a site inspection to verify field conditions.

List name of inspector(s), title, agency, and date(s) of inspection.

- 1.
- 2.
- 3.

Step 7. NEPA Pathway Recommendation and Certifications

First, consult the attached list of "Categorical Exclusions (CEs) for Which a Record is Needed." If you find your action in the CE list **and** you have determined in Step 6A that impacts will be minor or less for each applicable environmental resource on the ESF **and** you answered "no" to all of the "Mandatory Criteria" questions in Step 6B, the proposal qualifies for a CE. Complete the following "State LWCF Environmental Recommendations" box indicating the CE recommendation.

If you find your action in the CE list **and** you have determined in Step 6A that impacts will be greater than minor or that more data is needed for any of the resources **and** you answered "no" to all of the "Mandatory Criteria" questions, your environmental review team may choose to do additional analysis to determine the context, duration, and intensity of the impacts of your project or may wish to revise the proposal to minimize impacts. If impacts remain at the greater than minor level, an EA must be prepared for your proposal. Complete the following "State Environmental Recommendations" box indicating the need for an EA.

If you do not find your action in the CE list, regardless of your answers in Step 6, you must prepare an EA or EIS. Complete the following "State Environmental Recommendations" box indicating the need for an EA or EIS.

State LWCF Environmental Recommendations and Appraisal Certification
To be filled in by State Parks

I certify that a site inspection was conducted for each site involved in this proposal and to the best of my knowledge, the information provided in this LWCF Proposal Description and Environmental Screening Form (PD/ESF) is accurate based on available resource data. All resulting notes, reports and inspector signatures are stored in the state's NEPA file for this proposal and available upon request.

On the basis of the environmental impact information for this LWCF proposal as presented in this LWCF PD/ESF with which I am familiar, I recommend the following NEPA pathway:

- This proposal qualifies for a Categorical Exclusion (CE see NEXT PAGE)
 - CE Item #'s
 - Explanation:
- This proposal requires an Environmental Assessment (EA) which is attached and has been produced in accordance with the LWCF Grants Manual.
- This proposal may require an Environmental Impact Statement (EIS). NPS guidance is requested per the LWCF Grants Manual.

~~~~~  
**State Appraisal Review**-If applicable, complete this certification for each appraisal.

I certify that the State has reviewed the appraisal and has determined that it was prepared in conformity with the Uniform Appraisal Standards for Federal Land Acquisitions.

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

Date of appraisal transmittal letter: \_\_\_\_\_

Fair market value: \$ \_\_\_\_\_

Effective Date of Value: \_\_\_\_\_

~~~~~  
 SLO/ASLO Original Signature: _____ Date: _____

Typed Name, Title, Agency: _____

SLO/ASLO Original Signature: _____ Date: _____

Typed Name, Title, Agency: _____

CE ITEMS

National Environmental Policy Act

National Park Service-Land and Water Conservation Fund State Assistance Program

Categorical Exclusions for Which a Record is Needed

Before selecting a categorical exclusion (CE), complete the PD/ESF for the LWCF proposal to support the CE selection.

Note: The following are the NEPA Categorical Exclusions approved for use with all NPS programs. Those project type that were not excluded have been removed for your convenience, therefore, the numbers are not in order. PLEASE use the numbers in this list as written below.

C. Actions related to development

- (1) Land acquisition within established park boundaries, if future anticipated uses would have no potential for environmental impact.
- (2) Land exchanges that will not lead to anticipated changes in the use of land and that have no potential for environmental impact. *For LWCF, some small conversions may meet this criterion. See the LWCF Manual Chapter 8 for further guidance.*
- (5) Installation of *LWCF eligible* signs, displays, and kiosks.
- (8) Replacement in kind of minor structures and facilities with little or no change in location, capacity, or appearance--for example, comfort stations, pit toilets, fences, kiosks, signs and campfire circles.
- (9) Repair, resurfacing, striping, installation of traffic control devices, and repair/replacement of guardrails, culverts, signs, and other minor existing features on existing roads when no potential for environmental impact exists.
- (10) Changes in sanitary facilities operation resulting in no new environmental effects.
- (11) Installation of wells, comfort stations, and pit or vault toilets in areas of existing use and in developed areas.
- (12) Minor trail relocation or development of compatible trail networks on logging roads or other established routes.
- (13) Upgrading or adding new overhead utility facilities on existing poles, or on replacement poles that do not change existing pole line configurations.
- (16) Installation of underground utilities in areas showing clear evidence of recent human disturbance or areas within an existing road prism or within an existing overhead utility right-of-way.
- (17) Minor landscaping in areas showing clear evidence of recent human disturbance.

(18) Installation of fencing enclosures, exclosures, or boundary fencing posing no effect on wildlife migrations.

F. Actions related to grant programs

(1) Proposed actions essentially the same as those listed in paragraphs A-E above *not shaded in gray*.

(2) Grants for acquisition to areas that will continue in the same use or lower density use with no additional disturbance to the natural setting or type of use.

(3) *Grants for replacement or renovation of facilities at their same location without altering the kind and amount of recreational, historical, or cultural resources of the area or the integrity of the existing setting.*

(4) Grants for construction of facilities on lands acquired under a previous NPS or other federal grant, provided that the development is in accord with plans submitted with the acquisition grant, and that environmental documents have been completed on the impacts of the proposal funded by the original grant.

(5) Grants for the construction of new facilities within an existing park or recreation area, provided that the facilities will not:

(a) conflict with adjacent ownerships or land use, or cause a nuisance to adjacent owners or occupants, such as would happen if use were extended beyond daylight hours.

(b) introduce motorized recreation vehicles, including off-road vehicles, personal water craft, and snowmobiles.

(c) introduce active recreation pursuits into a passive recreation area.

(d) increase public use or introduce non-compatible uses to the extent of compromising the nature and character of the property or causing physical damage to it.

(e) add or alter access to the park from the surrounding area.

-end-

PART 3 – MAPS (There are a minimum of THREE maps REQUIRED)

3i - INSTRUCTIONS FOR 6 (f) (3) PROJECT BOUNDARY MAP

The following elements must be included in each project boundary map:

1. Project Area. At a minimum, this area must be a viable public outdoor recreation area that is capable of being self-sustaining without reliance upon adjoining or additional areas not identified in the scope of the project. Except in unusual cases where it can be shown that a lesser unit is clearly a self-sustaining outdoor recreation resource, this area will be the park, open space or recreation area being developed or added to. Exceptions will be made only in the case of larger parks, where logical management units exist therein. In no case will the areas covered in Section 6(f)(3) of the Act be less than that acquired with L&WCF assistance.
 2. Requirements. The project boundary map and/or attachments thereto will identify the following:
 - a. The title and number of the project or project element.
 - b. The date of map preparation and signature of person preparing or authorizing the map.
 - c. The area(s) under lease and term remaining on the lease(s).
 - d. All known outstanding rights and interests in the area held by others. Known easements, deed/lease restrictions, reversionary interests, etc. are to be included. Those outstanding rights and interests which, in the opinion of the applicant, would not adversely impact the utility and viability of the recreation area if exercised and not intended to be included under the conversion provisions of Section 6(f)(3) of the Act should be specifically identified (see Sections 640.3.4 and 660.5.2C of the NPS L&WCF Manual, Release 151).
 - e. The project area in sufficient detail so as to be legally sufficient to identify the lands to be afforded protection under Section 6(f)(3) of the Act. Maps should not exceed 11" x 17" so as to be reproducible, if necessary to make additional copies. The following methods of identification are acceptable:
 - Deed references.
 - Adjoining ownership.
 - Adjoining easements of record.
 - Adjoining water bodies or other prominent natural landmarks.
 - Government survey with section corners or quarter section corners indicated on map OR metes and bounds survey with boundary dimensions and directional bearings.
 - Where one or more of the above methods are not readily suited for area identification, measurements from permanent locators may be used. A formal survey is not required.
 3. Review. Prior to final approval of a project, the Service will review and accept the dated project boundary map's identification of the area to be protected by Section 6(f)(3) of the Act as well as any land or rights in land excluded from that protection.
 4. Alteration to Project Area. Prior to the date of final billing for the project or project element, the State and the Director of NPS may mutually agree to alter the project area to provide for the most satisfactory unit intended to be administered under the provisions of Section 6(f)(3), except that acquired parcels are afforded Section 6(f)(3) protection as L&WCF reimbursement is provided
-

3ii – General Location Map

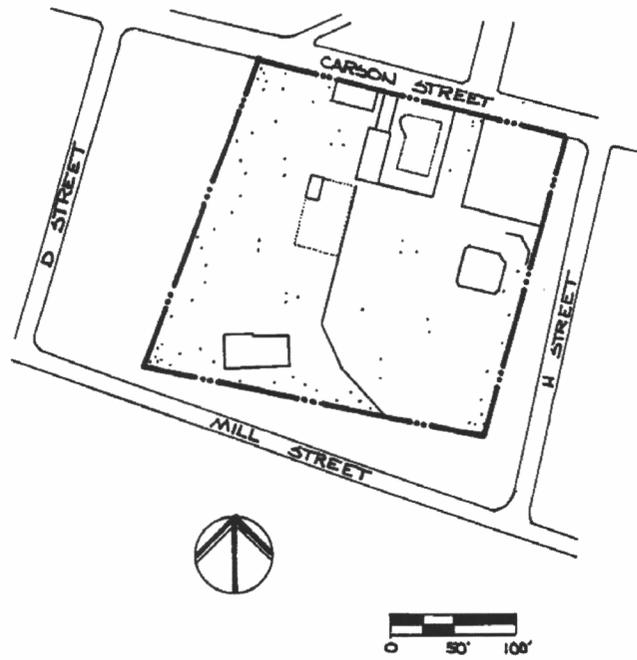
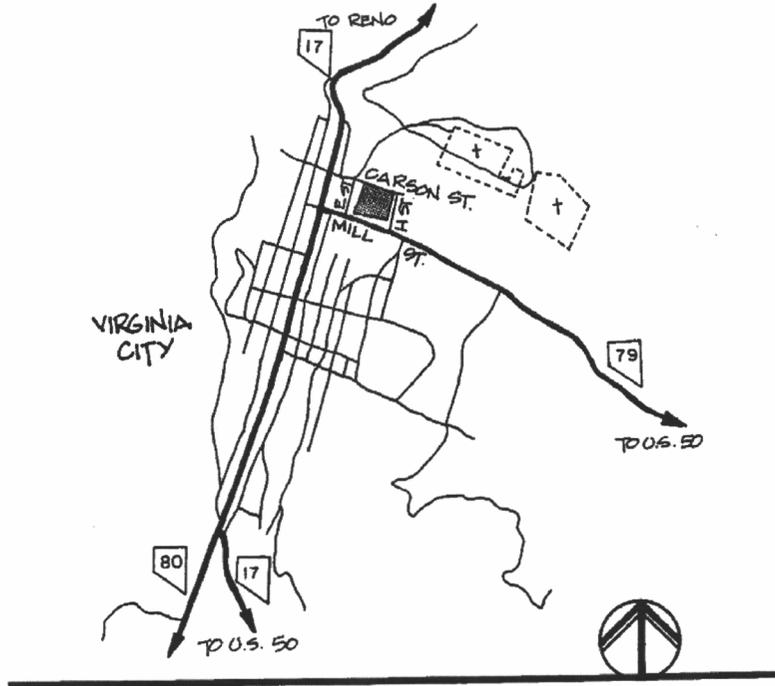
106 Carson Street Virginia City, NV 89440

Lat/Long: 39 18 51.628618, -119 38 47.142453



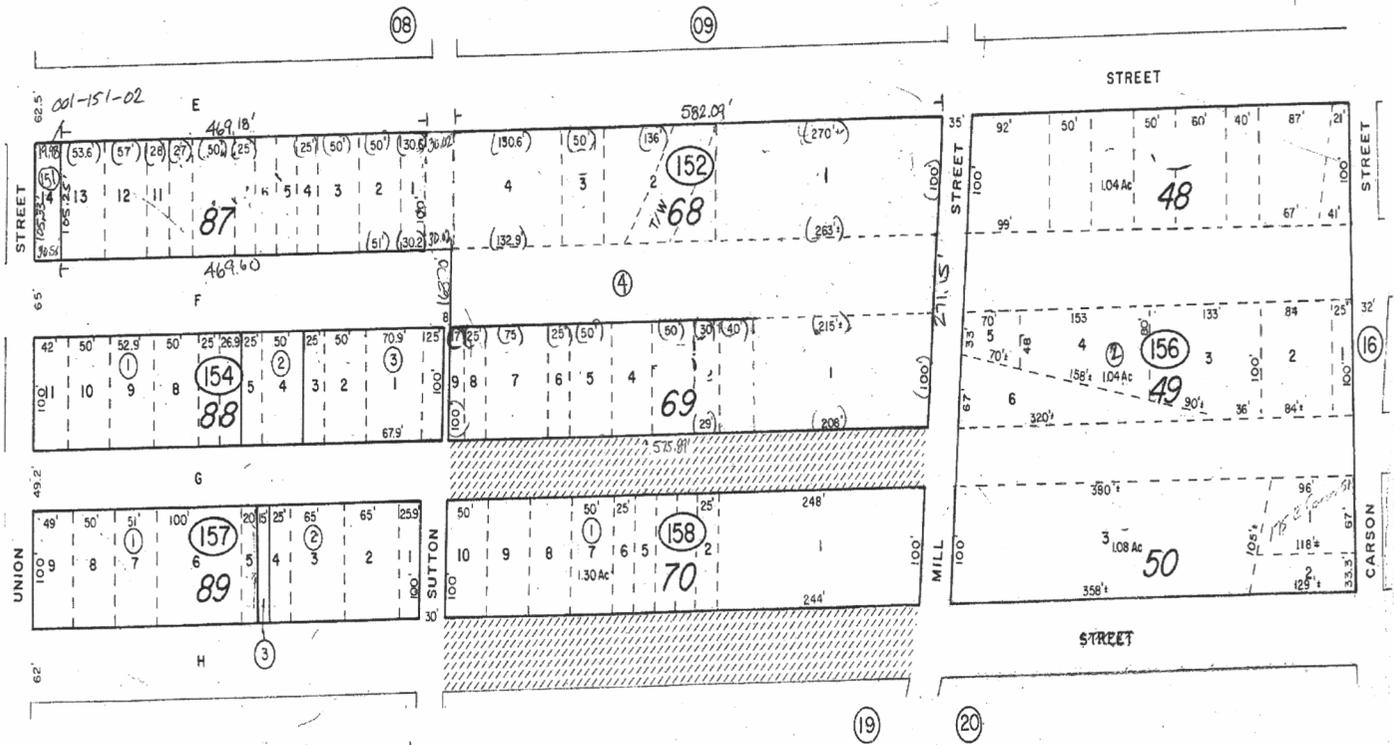
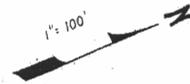
**3iii – Detailed project map with lat/long section lines (please use quad map if possible)
Township, Section, Range.**

106 Carson Street Virginia City, NV 89440
Lat/Long: 39 18 51.628618, -119 38 47.142453



Por. of W²NE⁴ of Sec. 29
 T17N, R21E, M.DB&M

01-13



STOREY COUNTY, NEVADA

This map is prepared for the use of the Storey County Assessor for assessment and illustrative purposes ONLY. It does not represent a survey. No liability is assumed as to the sufficiency or accuracy of the data delineated herein.

Virginia City

STOREY COUNTY

APPENDIX 4 – BUDGET/PROJECT COST ESTIMATE

Project Name: MINER’S PARK PLAYGROUND IMPROVEMENT

PROJECT COSTS:

Round 3.5 Steel Play System	\$19,200.00
Freight on Play System	\$989.00
Assembly and Installation <i>(Includes all labor, materials and equipment to install the Steel Play System)</i>	\$9,500.00
Shock Absorbing Playground Bark <i>(35 cubic yards at \$39.00 per cubic yard)</i>	\$1,365.00
Walkway Pavers <i>(3,280sqft at \$8.00 per square foot, includes labor, materials and equipment for install)</i>	\$26,240.00
Labor to remove old playground equipment and prepare the site <i>(IN-KIND Labor provided by Storey County Public Works Staff. 4 Staff per day for 1 week at \$25.00 per hour)</i>	\$3,200.00
Project Signage <i>(EG reflective with UV over laminate)</i>	\$38.00
Subtotal	\$60,532.00
Grant Funds Being Requested	\$30,000.00
Matching Funds	\$30,532.00

Note: Show donations on the cost estimate. Donations need approval prior to project approval.

STATE OF NEVADA
 Division of State Parks
 Land & Water Conservation Fund Project Agreement

Participant Storey County		Project Number 32-00338
Project title Miners Park Playground replacement		
Period Covered by this Agreement From: <u>April 1, 2016</u> To: <u>December 31, 2018</u>		
Project Scope (Description of Project) Park amenities; replace existing playground equipment, play surface and some sidewalk work		
Project Cost		The following attachments are hereby incorporated into this agreement: 1. General Provisions 2. Project Proposal
Total Cost	\$ 60,532	
Federal Grant	\$ 30,000	
Local Share	\$ 30,532	

The State of Nevada, represented by the State Liaison Officer, and the Participant named above mutually agree to perform this agreement in accordance with the Land and Water Conservation Fund Act of 1965, 78 Stat. 897 (1964) and with the terms, promises, conditions, plans, specifications, estimates, procedures, project proposals, maps and assurances attached hereto and hereby a part hereof.

The State of Nevada hereby promises, in consideration of the promises made by the Participant herein, to take the necessary steps and action and to attempt to enter into an agreement to obtain Federal money for that portion of the project referred to as Federal Grant above, to accept such funds from the United States and to tender to the Participant that portion of the obligation which is required to pay the United States' share.

It is understood by the parties hereto that this agreement shall not obligate State funds for the project cost described herein except those costs necessary for administration of the project.

In the event construction has not commenced on this project within ten and one half (10½) months from the date of official notification of funding from the Division of State Parks (Notice to Proceed), this agreement is null and void. In the event an acquisition does not take place within nine (9) months from the date of official notification of funding from the Division of State Parks (Notice to Proceed), this agreement is null and void.

The Participant hereby promises, in consideration of the promises made by the State of Nevada herein, to execute the project described above in accordance with the terms of this agreement.

The following special project terms and conditions were added to this agreement before it was signed by the parties hereto:

In witness whereof, the parties hereto have entered into this agreement as of the date entered below. The date upon which this agreement becomes effective and is executed will be the date signed by the State Liaison Officer.

STATE OF NEVADA

PARTICIPANT

(Signature)

(Signature)

Jennifer Scanland-

(Name of Political Subdivision)

Alternate State Liaison Officer

(Typed Name)

(Date)

(Date)

REV. 12/25/99

**LAND AND WATER CONSERVATION FUND
PROJECT AGREEMENT GENERAL PROVISIONS**

Part I - Definitions

- A. The term "NPS" or "Service" as used herein means the National Park Service, United States Department of the Interior.
- B. The term "Director" as used herein means the Director of the National Park Service, or any representative lawfully delegated the authority to act for such Director.
- C. The term "Manual" as used herein means the Land and Water Conservation Fund State Assistance Program Manual.
- D. The term "project" as used herein means a Land and Water Conservation Fund grant which is subject to the project agreement and/or its subsequent amendments.
- E. The term "State" as used herein means the State or Territory which is a party to the project agreement, and, where applicable, the political subdivision or public agency to which funds are to be transferred pursuant to this agreement. Wherever a term, condition, obligation, or requirement refers to the State, such term, condition, obligation, or requirement shall also apply to the recipient political subdivision or public agency, except where it is clear from the nature of the term, condition, obligation, or requirement that it is to apply solely to the State. For purposes of these provisions, the terms "State," "grantee," and "recipient" are deemed synonymous.
- F. The term "Secretary" as used herein means the Secretary of the Interior, or any representative lawfully delegated the authority to act for such Secretary.

Part II - Continuing Assurances

The parties to the project agreement specifically recognize that the Land and Water Conservation Fund project creates an obligation to maintain the property described in the project agreement and supporting application documentation consistent with the Land and Water Conservation Fund Act and the following requirements.

Further, it is the acknowledged intent of the parties hereto that recipients of assistance will use monies granted hereunder for the purposes of this program, and that assistance granted from the Fund will result in a net increase, commensurate at least with the Federal cost-share, in a participant's outdoor recreation.

It is intended by both parties hereto that assistance from the Fund will be added to, rather than replace or be substituted for, State and local outdoor recreation funds.

- A. The State agrees, as recipient of this assistance, that it will meet the following specific requirements and that it will further impose these requirements, and the terms of the project agreement, upon any political subdivision or public agency to which funds are transferred pursuant to the project agreement. The State also agrees that it shall be responsible for compliance with the terms of the project agreement by such a political subdivision or public agency and that failure by such political subdivision or public agency to so comply shall be deemed a failure by the State to comply with the terms of this agreement.
- B. The State agrees that the property described in the project agreement and the signed and dated project boundary map made part of that agreement is being acquired or developed with Land and Water Conservation Fund assistance, or is integral to such acquisition or development, and that, without the approval of the Secretary, it shall not be converted to other than public outdoor recreation use but shall be maintained in public outdoor recreation in perpetuity or for the term of the lease in the case of leased property. The Secretary shall approve such conversion only if it is found to be in accord with the then existing comprehensive statewide outdoor recreation plan and only upon such conditions deemed necessary to assure the substitution of other recreation properties of at least equal fair market value and of reasonably equivalent usefulness and location pursuant to Title 36 Part 59.3 of the *Code of Federal Regulations*. This replacement land becomes subject to Section 6(f)(3) protection. The approval of a conversion shall be at the sole discretion of the Secretary, or his designee.

Prior to the completion of this project, the State and the Director may mutually alter the area described in the project agreement and the signed and dated project boundary map to provide the most satisfactory public outdoor recreation unit, except that acquired parcels are afforded Section 6(f)(3) protection as Fund reimbursement is provided.

In the event the NPS provides Land and Water Conservation Fund assistance for the acquisition and/or development of property with full knowledge that the project is subject to reversionary rights and outstanding interests, conversion of said property to other than public outdoor recreation uses as a result of such right or interest being exercised will occur. In receipt of this approval, the State agrees to notify the Service of the potential conversion as soon as possible and to seek approval of replacement property in accord with the conditions set forth in these provisions and program regulations. The provisions of this paragraph are also applicable to: leased properties acquired and/or developed with Fund assistance where such lease is terminated prior to its full term due to the existence of provisions in such lease known and agreed to by the Service; and properties subject to other outstanding rights and interests that may result in a conversion when known and agreed to by the Service.

- C. The State agrees that the benefit to be derived by the United States from the full compliance by the State with the terms of this agreement is the preservation, protection, and the net increase in the quality of public outdoor recreation facilities and resources which are available to the people of the State and of the United States, and such benefit exceeds to an immeasurable and unascertainable extent the amount of money furnished by the United States by way of assistance under the terms of this agreement. The State agrees that payment by the State to the United States of an amount equal to the amount of assistance extended under this agreement by the United States would be inadequate compensation to the United States for any breach by the State of this agreement.

The State further agrees, therefore, that the appropriate remedy in the event of a breach by the State of this agreement shall be the specific performance of this agreement or the submission and approval of a conversion-of-use request as described in Section II.B above.

- D. The State agrees to comply with the policies and procedures set forth in Manual. Provisions of said Manual are incorporated into and made a part of the project agreement.
- E. The State agrees that the property and facilities described in the project agreement shall be operated and maintained as prescribed by Manual requirements and published post-completion compliance regulations (Title 36 Part 59 of the *Code of Federal Regulations*).
- F. The State agrees that a permanent record shall be kept in the participant's public property records and available for public inspection to the effect that the property described in the scope of the project agreement, and the signed and dated project boundary map made part of that agreement, has been acquired or developed with Land and Water Conservation Fund assistance and that it cannot be converted to other than public outdoor recreation use without the written approval of the Secretary of the Interior.
- G. Nondiscrimination
1. By signing the LWCF agreement, the State certifies that it will comply with all Federal laws relating to nondiscrimination as outlined in the Civil Rights Assurance appearing at Part III-I herein.
 2. The State shall not discriminate against any person on the basis of residence, except to the extent that reasonable differences in admission or other fees may be maintained on the basis of residence as set forth in the Manual.

Part III - Project Assurances

A. Applicable Federal Circulars

The State shall comply with applicable regulations, policies, guidelines and requirements as they relate to the application, acceptance and use of Federal funds for this federally assisted project, including:

- OMB Circular A-102, Uniform Administrative Requirements for Grants and Cooperative Agreements

with State and Local Governments;

- 43 CFR Part 12, Administrative and Audit Requirements and Cost Principles for Assistance Programs, Department of the Interior;

- A-87, Cost Principles for State, Local, and Indian Tribal Governments; and

- A-133, Audits of States, Local Governments, and Non-Profit Organizations.

B. Project Application

1. The Application for Federal Assistance bearing the same project number as the agreement and associated documents is by this reference made a part of the agreement.
2. The State possesses legal authority to apply for the grant, and to finance and construct the proposed facilities. A resolution, motion or similar action has been duly adopted or passed authorizing the filing of the application, including all understandings and assurances contained herein, and directing and authorizing the person identified as the official representative of the State to act in connection with the application and to provide such additional information as may be required.
3. The State has the capability to finance the non-Federal share of the costs for the project. Sufficient funds will be available to assure effective operation and maintenance of the facilities acquired or developed by the project.

C. Project Execution

1. The project period shall begin with the date of approval of the project agreement or the effective date of a waiver of retroactivity and shall terminate at the end of the stated or amended project period unless the project is completed or terminated sooner in which event the project shall end on the date of completion or termination.
2. The State shall transfer to the project sponsor identified in the Application for Federal Assistance or the Description and Notification Form all funds granted hereunder except those reimbursed to the State to cover eligible administrative expenses.
3. The State will cause work on the project to be commenced within a reasonable time after receipt of notification that funds have been approved and assure that the project will be prosecuted to completion with reasonable diligence.
4. The State will require the facility to be designed to comply with the Architectural Barriers Act of 1968 (Public Law 90-480) and DOI Section 504 Regulations (43 CFR Part 17). The State will be responsible for conducting inspections to insure compliance with these specifications by the contractor.
5. The State shall secure completion of the work in accordance with approved construction plans and specifications, and shall secure compliance with all applicable Federal, State, and local laws and regulations.
6. In the event the project covered by the project agreement, cannot be completed in accordance with the plans and specifications for the project; the State shall bring the project to a point of recreational usefulness agreed upon by the State and the Director or his designee.
7. The State will provide for and maintain competent and adequate architectural/engineering supervision and inspection at the construction site to insure that the completed work conforms with the approved plans and specifications; that it will furnish progress reports and such other information as the NPS may require.
8. The State will comply with the terms of Title II and Title III, the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646), 94 Stat. 1894 (1970), and the applicable regulations and procedures implementing such Act for all real property acquisitions and where applicable shall assure that the Act has been complied with for property to be developed with assistance under the project agreement.

9. The State will comply with the provisions of: Executive Order 11988, relating to evaluation of flood hazards; Executive Order 11288, relating to the prevention, control, and abatement of water pollution, and Executive Order 11990 relating to the protection of wetlands.
10. The State will comply with the flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973, Public Law 93-234, 87 Stat. 975, approved December 31, 1976. Section 102(a) requires the purchase of flood insurance in communities where such insurance is available, as a condition for the receipt of any Federal financial assistance for construction or acquisition purposes, for use in any area that has been identified as an area having special flood hazards by the Flood Insurance Administration of the Federal Emergency Management Agency. The phrase "Federal financial assistance" includes any form of loan, grant, guaranty, insurance payment, rebate, subsidy, disaster assistance loan or grant, or any other form of direct or indirect Federal assistance.
11. The State will assist the NPS in its compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (16 U.S.C. 470), Executive Order 11593, and the Archaeological and Historic Preservation Act of 1966 (16 U.S.C. 469a-1 et seq.) by (a) consulting with the State Historic Preservation Officer on the conduct of investigations, as necessary, to identify properties listed in or eligible for inclusion in the National Register of Historic Places that are subject to effects (see CFR Part 800.8) by the activity, and notifying the Federal grantor agency of the existence of any such properties, and by (b) complying with all requirements established by the Federal grantor agency to avoid or mitigate adverse effects upon such properties.
12. The State will comply with "Minority Business Enterprises" and "Women's Business Enterprises" pursuant to Executive Orders 11625 and 12138 as follows:
 - (1) Place minority and women business firms on bidder's mailing lists.
 - (2) Solicit these firms whenever they are potential sources of supplies, equipment, construction, or services.
 - (3) Where feasible, divide total requirements into smaller needs, and set delivery schedules that will encourage participation by these firms.
 - (4) The Department of the Interior is committed to the objectives of this policy and encourages all recipients of its grants and cooperative agreements to take affirmative steps to ensure such fairness.

The National Park Service Regional Offices will work closely with the States to ensure full compliance and that grant recipients take affirmative action in placing a fair share of purchases with minority business firms.

13. The State will comply with the intergovernmental review requirements of Executive Order 12372.

D. Construction Contracted for by the State Shall Meet the Following Requirements:

1. Contracts for construction shall comply with the provisions of 43 CFR Part 12 (Administrative and Audit Requirements and Cost Principles for Assistance Programs, Department of the Interior).
2. No grant or contract may be awarded by any grantee, subgrantee or contractor of any grantee or subgrantee to any party which has been debarred or suspended under Executive Order 12549. By signing the LWCF agreement, the State certifies that it will comply with debarment and suspension provisions appearing at Part III-J herein.

E. Retention and Custodial Requirements for Records

1. Financial records, supporting documents, statistical records, and all other records pertinent to this grant shall be retained in accordance with 43 CFR Part 12 for a period of three years; except the records shall be retained beyond the three-year period if audit findings have not been resolved.

2. The retention period starts from the date of the final expenditure report for the project.
3. State and local governments are authorized to substitute copies in lieu of original records.
4. The Secretary of the Interior and the Comptroller General of the United States, or any of their duly authorized representatives, shall have access to any books, documents, papers, and records of the State and local governments and their subgrantees which are pertinent to a specific project for the purpose of making audit, examination, excerpts and transcripts.

F. Project Termination

1. The Director may temporarily suspend Federal assistance under the project pending corrective action by the State or pending a decision to terminate the grant by the Service.
2. The State may unilaterally terminate the project at any time prior to the first payment on the project. After the initial payment, the project may be terminated, modified, or amended by the State only by mutual agreement.
3. The Director may terminate the project in whole, or in part, at any time before the date of completion, whenever it is determined that the grantee has failed to comply with the conditions of the grant. The Director will promptly notify the State in writing of the determination and the reasons for the termination, together with the effective date. Payments made to States or recoveries by the Service under projects terminated for cause shall be in accord with the legal rights and liabilities of the parties.
4. The Director or State may terminate grants in whole, or in part at any time before the date of completion, when both parties agree that the continuation of the project would not produce beneficial results commensurate with the further expenditure of funds. The two parties shall agree upon the termination conditions, including the effective date and, in the case of partial termination, the portion to be terminated. The grantee shall not incur new obligations for the terminated portion after the effective date, and shall cancel as many outstanding obligations as possible. The NPS may allow full credit to the State for the Federal share of the noncancelable obligations, properly incurred by the grantee prior to termination.
5. Termination either for cause or for convenience requires that the project in question be brought to a state of recreational usefulness agreed upon by the State and the Director or that all funds provided by the National Park Service be returned.

G. Lobbying with Appropriated Funds

The State must certify, for the award of grants exceeding \$100,000 in Federal assistance, that no Federally appropriated funds have been paid or will be paid, by or on behalf of the State, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding, extension, continuation, renewal, amendment, or modification of this grant. In compliance with Section 1352, title 31, U.S. Code, the State certifies, as follows:

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement,

the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

H. Provision of a Drug-Free Workplace

In compliance with the Drug-Free Workplace Act of 1988 (43 CFR Part 12, Subpart D), the State certifies, as follows:

The grantee certifies that it will or continue to provide a drug-free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;

(b) Establishing an ongoing drug-free awareness program to inform employees about:

- (1) The dangers of drug abuse in the workplace;*
- (2) The grantee's policy of maintaining a drug-free workplace;*
- (3) Any available drug counseling, rehabilitation, and employee assistance programs; and*
- (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;*

(c) Making it a requirement that each employee to be engaged in the performance of a grant be given a copy of the statement required by paragraph (a);

(d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will:

- (1) Abide by the terms of the statement; and*
- (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;*

(e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;

(f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted;

- (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or*
- (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;*

(g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e) and (f).

The State must include with its application for assistance a specification of the site(s) for the performance of work to be done in connection with the grant.

I. Civil Rights Assurance

The State certifies that, as a condition to receiving any Federal assistance from the Department of the Interior, it will comply with all Federal laws relating to nondiscrimination. These laws include, but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d-1), which prohibits discrimination on the basis of race, color, or national origin; (b) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the basis of handicap; (c) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101 et. seq.), which prohibits discrimination on the basis of age; and applicable regulatory requirements to the end that no person in the United States shall, on the grounds of race, color, national origin, handicap or age, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity conducted by the applicant. THE APPLICANT HEREBY GIVES ASSURANCE THAT it will immediately take any measures necessary to effectuate this agreement.

THIS ASSURANCE shall apply to all aspects of the applicant's operations including those parts that have not received or benefited from Federal financial assistance.

If any real property or structure thereon is provided or improved with the aid of Federal financial assistance extended to the Applicant by the Department, this assurance shall obligate the Applicant, or in the case of any transfer of such property, any transferee, for the period during which it retains ownership or possession of the property. In all other cases, this assurance shall obligate the Applicant for the period during which the Federal financial assistance is extended to it by the Department.

THIS ASSURANCE is given in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts, property, discounts or other Federal financial assistance extended after the date hereof to the Applicant by the Department, including installment payments after such date on account of applications for Federal financial assistance which were approved before such date.

The Applicant recognizes and agrees that such Federal financial assistance will be extended in reliance on the representations and agreements made in this assurance, and that the United State shall have the right to seek judicial enforcement of this assurance. This assurance is binding on the Applicant, its successors, transferees, assignees, and subrecipients and the person whose signature appears on the grant agreement and who is authorized to sign on behalf of the Applicant.

J. Debarment and Suspension

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

(1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission or embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

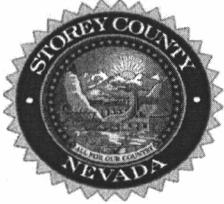
(2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The State further agrees that it will include the clause "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions" appearing below in any agreement entered into with lower tier participants in the implementation of this grant. Department of Interior Form 1954 (DI-1954) may be used for this purpose.

Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion - Lower Tier Covered Transactions

(1) The prospective lower tier participant certifies, by submission of this application that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

(2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this application.



Storey County Board of County Commissioners Agenda Action Report

Meeting date:

Estimate of time required: 15 minutes

Agenda: Consent [] Regular agenda [x] Public hearing required []

1. **Title:** Consideration and possible approval of indenture from Union Pacific Railroad Company amending and restating the grant of a right to construct, reconstruct, maintain and use the Mustang Road underpass where it crosses the railroad right of way.

2. **Recommended motion:** I move to accept the amended and restated indenture from the Union Pacific Railroad Company giving Storey County the right to construct maintain and use Mustang Road where it crosses the Union Pacific right of way.

3. **Prepared by:** Keith Loomis

Department: District Attorney's Office

Telephone: (775) 847-0964

4. **Staff summary:** See Attachment

5. **Supporting materials:**

Amended and Restated Indenture

6. **Fiscal impact:**

Funds Available:

Fund:

_____ Comptroller

7. **Legal review required:**

Keith Loomis, Deputy District Attorney

8. **Reviewed by:**

_____ Department Head

Department Name:

_____ County Manager

Other agency review: _____

9. **Board action:**

Approved
 Denied

Approved with Modifications
 Continued

Agenda Item No. 13

ATTACHMENT

Storey County was originally issued an indenture from Southern Pacific (Union Pacific's predecessor) to construct maintain and use Mustang Road where it crossed the Southern Pacific railroad right of way in 1974. The legal description provided in that indenture did not conform to the location where Mustang Road crossed the right of way. Scannell Properties is now attempting to develop real property which uses the Mustang Road for access. Scannell Properties wants to obtain title insurance which will in part insure access to the property being developed. In order to get the title insurance, Scannell properties has convinced Union Pacific Railroad Company to issue an amended and restated indenture conveying the right to construct, maintain and use Mustang Road where it crosses the Union Pacific right of way with a legal description which matches the actual location of the Mustang Road roadway.

Mustang Road actually crosses the Union Pacific right of way in Washoe County. It is hoped that Washoe County will accept an assignment of the indenture and its obligations from Storey County. This will leave Washoe County with the obligation to maintain the roadway and the underpass.

04/01/16

APN: 084-172-22

WHEN RECORDED, MAIL TO:

Keith Loomis
Deputy District Attorney
Storey County District Attorney's Office
P.O. Box 496, 201 South C Street
Virginia City, NV 89440

AMENDED AND RESTATED INDENTURE

THIS AMENDED AND RESTATED INDENTURE (this "Indenture") is made as of this _____ day of April, 2016, by and between UNION PACIFIC RAILROAD COMPANY, a Delaware corporation ("Railroad"), and COUNTY OF STOREY, a political subdivision of the State of Nevada ("Grantee").

WHEREAS, on June 27, 1974, Railroad's predecessor in interest, Southern Pacific Transportation Company, a Delaware corporation, and Grantee entered into an unrecorded Indenture (RLL-VI-16049/323-5/3/74) (the "Original Indenture");

WHEREAS, the Original Indenture granted Grantee a right to construct, reconstruct, maintain and use a highway as a public right-of-way connecting to and being a part of the existing public right-of-way commonly known as Mustang Road by means of an underpass over and across property owned by Railroad more particularly described on Annex A, attached to the Original Indenture (the "Original ROW Parcel"), on the terms and conditions of the Original Indenture;

WHEREAS, it has come to the attention of Railroad and Grantee that the highway, as it was constructed in its current location, is located outside of the boundaries of the Original ROW Parcel;

WHEREAS, in order to accurately reflect the location of the highway, as constructed, on Railroad's property, Railroad and Grantee desire to amend and restate the Original Indenture in its entirety.

WITNESSETH:

1. The foregoing recitals are incorporated herein by reference. Without limiting the foregoing, the parties expressly acknowledge that this Indenture amends and restates the Original Indenture in its entirety, and Grantee hereby quitclaims and forever relinquishes to Railroad all of its right, title and interest in and to any property of Railroad under the Original Indenture.

2. Railroad hereby grants to Grantee the right to construct, reconstruct, maintain and use the highway by means of an underpass (the "Highway"), over and across that certain property of Railroad more particularly described in Annex A, attached and hereby made a part hereof (the "Property").

3. The rights granted are limited vertically to a plane or planes coincident with the top of the existing underpass structure as constructed in its current location as of the date hereof.

4. This grant is made subject and subordinate to the prior and continuing right and obligation of Railroad, its successors and assigns, to use the Property in the performance of its duty as a common carrier and for that purpose there is reserved unto Railroad, its successors and assigns, the right (consistent with the rights herein granted) to construct, reconstruct, maintain and use existing and future railroad tracks, facilities and appurtenances and existing and future transportation, communication and pipeline facilities and appurtenances in, upon, over, under, across or along the Property.

5. This grant is made subject to all licenses, leases, easements, restrictions, conditions, covenants, encumbrances, liens and claims of title which may affect the Property and the word GRANT as used herein shall not be construed as a covenant against the existence of any thereof.

6. This grant shall not be construed as conveying or otherwise vesting in Grantee the right to install or the power to authorize the installation of any ditches, pipes, drains, sewer or underground structures, or the facilities of any telegraph, telephone or electric power lines in, upon, over, under, across or along the Property, except as may be necessary for the maintenance of the Highway.

7. Grantee shall obtain any necessary authority and permission required to construct, reconstruct, maintain and use the Highway upon the Property from the governmental body or bodies having jurisdiction thereover.

8. Grantee agrees to reimburse Railroad for any and all assessments which may be levied by order of any authorized lawful body against the property of Railroad (and which may have been paid by Railroad) to defray any part of the cost or expense incurred in connection with the initial construction or reconstruction of the Highway.

9. Should Grantee, its successors or assigns, at any time abandon the use of the Property or any part thereof, or fail at any time to use the same for said purpose for a continuous period of one (1) year, the rights granted shall cease to the extent of the use so abandoned or discontinued, and Railroad, its successors or assigns, shall at once have the right, in addition to but not in qualification of the right hereinabove reserved, to resume exclusive possession of the Property, or the part thereof the use of which is so discontinued or abandoned. Upon termination of the rights hereby granted, Grantee agrees to remove the Highway, including the paving, from the Property, to restore the Property as nearly as practicable to the same state and condition in which it existed prior to the construction of the Highway, and to bear the expense thereof. Should Grantee in such event fail, neglect or refuse to so remove the Highway and restore the Property such removal and restoration may be performed by Railroad at the expense of Grantee, which expense Grantee agrees to pay to Railroad upon demand.

10. Grantee shall record this Indenture in the office of the Recorder of the County in the State of Nevada in which the Property is located.

11. The Highway has been constructed under terms of a separate agreement entered into by Railroad with Parco Sand & Gravel Company, at the expense of said gravel company.

12. Grantee, at its expense, shall maintain that part of the underpass below the bridge seats, including all slopes, roadways, pavement, Highway drainage, lights and all Highway facilities; Railroad, at the expense of Grantee (which will be paid by Grantee to Railroad promptly upon receipt of bills therefor), shall maintain that part of the underpass above the bridge seats, including the underpass deck; and Railroad, shall, at its own expense, maintain its tracks and all railroad facilities.

13. This Indenture shall inure to the benefit of and be binding upon the successors and assigns of the parties.

IN WITNESS WHEREOF, the parties have caused these presents to be executed by their respective officers thereunto duly authorized as of the day and year first above written.

RAILROAD:

UNION PACIFIC RAILROAD COMPANY, a Delaware corporation

ATTEST:

By: _____
_____ Secretary

By: _____
Name: _____
Title: _____

GRANTEE:

COUNTY OF STOREY, a political subdivision of the State of Nevada

By: _____
Name: _____
Title: _____

(Notary Acknowledgments on Following Pages)

STATE OF NEBRASKA)
) ss:
COUNTY OF DOUGLAS)

On this ____ day of _____, 201_, before me, _____, a Notary Public in and for said County and State, personally appeared _____ and _____ who are the _____ and the _____, respectively, of Union Pacific Railroad Company, a Delaware corporation, and who are personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to in the within instrument, and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public for and in said State

My commission expires: _____,
20__

↑ (Affix Notary Seal Here) ↑

STATE OF NEVADA)
) SS:
COUNTY OF STOREY)

This instrument was acknowledged before me on _____, 2016,
by _____, as _____ of County of Storey, a political subdivision of
the State of Nevada.

Notary Public

(Printed Signature)

My Commission Expires:

My County of Residence:

ANNEX A

TO AMENDED AND RESTATED INDENTURE

LEGAL DESCRIPTION AND DEPICTION OF PROERTY

A one-hundred (100) foot wide strip of land situated in the Northeast Quarter of the Northwest Quarter of Section 15, Township 19 North, Range 21 East, Mount Diablo Meridian, in Washoe County, Nevada, and being more particularly described as follows:

COMMENCING at a found brass cap stamped "Bureau of Land Management, 2003" at the northwest corner of the Northeast Quarter of the Northwest Quarter of said Section 15;

THENCE, South 56°14'44" East, a distance of 880.92 feet to the **POINT OF BEGINNING** on the northwesterly edge of the Union Pacific Railroad right-of-way;

THENCE, North 40°13'34" East, a distance of 100.00 feet along said northwesterly right-of-way;

THENCE, South 49°46'26" East, a distance of 400.00 feet to the southeasterly edge of the Union Pacific Railroad right-of-way;

THENCE, South 40°13'34" West, a distance of 100.00 feet along said southeasterly right-of-way;

THENCE, North 49°46'26" West, a distance of 400.00 feet to the **POINT OF BEGINNING**.

Containing 0.92 acres of land, more or less.

BASIS OF BEARING:

North was established with GPS observations using the Nevada State Plane Coordinate System (West Zone, NAD83).

See attached for a depiction of the above legal description.

Prepared by:

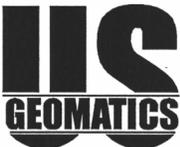
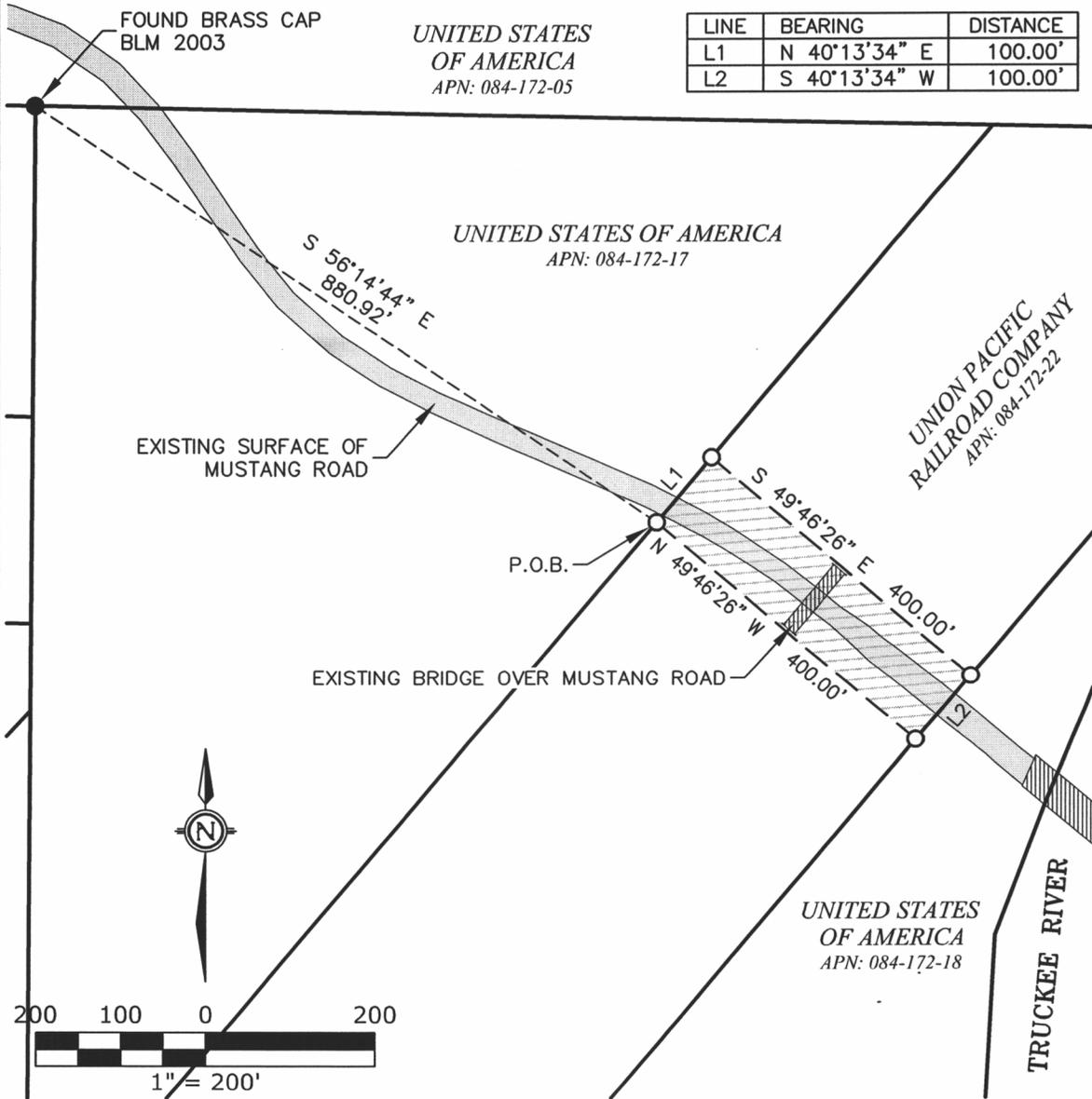
Glen C. Armstrong, PLS
Nevada Certificate No. 16451
US Geomatics
P.O. Box 3299
Reno, Nevada, 89505

BASIS OF BEARING:

NORTH WAS ESTABLISHED WITH GPS OBSERVATIONS USING THE NEVADA STATE PLANE COORDINATE SYSTEM (WEST ZONE, NAD83).

TOTAL AREA OF EASEMENT:

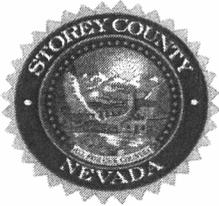
0.92 ACRES ±



P.O. Box 3299
Reno, NV 89505
p. 775.786.5111
f. 775.786.5114
www.usgeomatics.com

ANNEX A
STOREY COUNTY
AMENDED AND RESTATED INDENTURE
A PORTION OF THE NE 1/4 OF THE NW 1/4
OF SECTION 15, T.19N., R.21E., M.D.M.
WASHOE COUNTY NEVADA

SHEET
1
of
1



Storey County Board of County Commissioners Agenda Action Report

Meeting date: April 19, 2016

Estimate of time required: 0 min

Agenda: Consent Regular agenda Public hearing required

1. **DISCUSSION/POSSIBLE ACTION:** Approval of check 85107 to the Bucket of Blood Saloon in the amount of \$4,500.00 for parking lot lease.

2. **Recommended motion:** Approval of claims as submitted.

3. **Prepared by:** Hugh Gallagher

Department: Comptroller

Telephone: 775 847-1006

4. **Staff summary:** Please find attached the claims

5. **Supporting materials:** Attached

6. **Fiscal impact:**

Funds Available: NA

Fund: NA

__NA__ Comptroller

7. **Legal review required:**

__NA__ District Attorney

8. **Reviewed by:**

____ Department Head

Department Name: Comptroller

 County Manager

Other agency review: _____

9. **Board action:**

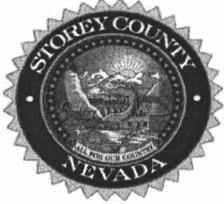
Approved

Approved with Modifications

Denied

Continued

Agenda Item No. 14



Storey County Board of County Commissioners Agenda Action Report

Meeting date: April 19, 2016
minutes

Estimate of time required: 15

Agenda: Consent [] Regular agenda [X] Public hearing required []

1. **Title:** Consideration and possible approval of interlocal agreement between Storey County, State Public Works Division and Nevada Department of Transportation regarding replacement of a portion of the water pipeline crossing under US Highway 580 carrying water from the Marlette Lake Water System to Storey County.
2. **Recommended motion:** I move to approve the interlocal agreement between Storey County, State Public Works Division and Nevada Department of Transportation for the replacement of a portion of the water pipeline from the Marlette Water System where it crosses US Highway 580 and authorize the Chairman to sign.

3. **Prepared by:** Keith Loomis

Department: District Attorney's Office

Telephone: 847-0964

4. **Staff summary.** State Public Works owns the Marlette Lake Water System which includes a portion of the pipeline carrying water from Marlette Lake to Five Mile Reservoir in Storey County. State Public Works owns the pipeline to the midpoint US Highway 580. Storey County owns the pipeline from the midpoint of US Highway 580 to Five Mile Reservoir. NDOT is currently extending a merge lane from Hobart Road onto US 580. NDOT has hired Q and D Construction to do the project. As part of that project, they propose to replace that portion of the Marlette water siphon where it crosses under US Highway 580. The interlocal agreement authorizes NDOT to contract for the replacement of the water pipeline under US Highway 580.

5. **Supporting materials:** Proposed Interlocal Agreement

6. **Fiscal impact:**

Funds Available:

Fund:

___ Comptroller

7. **Legal review required:**

X District Attorney

8. **Reviewed by:**

#15

____ Department Head

Department Name: Storey County Water and Sewer System

____ County Manager

Other agency review: _____

9. Board action:

Approved
 Denied

Approved with Modifications
 Continued

Agenda Item No.

INTERLOCAL AGREEMENT

This Agreement, made and entered into on _____, by and between the State of Nevada, acting by and through its Department of Transportation, hereinafter called the DEPARTMENT, and State Public Works Divison, Marlette Lake Water System, hereinafter called SPWD, and County of Storey, hereinafter called STOREY.

WITNESSETH:

WHEREAS, an Interlocal Agreement is defined as an agreement by public agencies to "obtain a service" from another public agency, hereinafter called parties; and

WHEREAS, pursuant to the provisions contained in Chapter 408 of the Nevada Revised Statutes, the Director of the DEPARTMENT may enter into agreements necessary to carry out the provisions of the Chapter; and

WHEREAS, pursuant to Nevada Revised Statute 331.160, the SPWD is responsible for the supervision and administration of the functions of the Marlette Lake Water System; and

WHEREAS, pursuant to the provisions contained in Chapter 341 and 331 of the Nevada Revised Statutes, the Administrator of SPWD may enter into agreements necessary to carry out the provisions of the Chapter; and

WHEREAS, the Marlette Lake Water System as defined in NRS 331.160, composed of the water rights, easements, pipelines, flumes and other fixtures and appurtenances used in connection with the collection, transmission and storage of water in Carson City and Washoe and Storey Counties, was acquired by the State of Nevada pursuant to law; and

WHEREAS, Storey County is a political subdivision of the State of Nevada and pursuant to NRS 331.160 is entitled to water from the Marlette Lake Water System; and

WHEREAS, STOREY owns, operates and maintains a water system that includes a water pipeline right of way issued by the United States Bureau of Land Management as Grant Nev-048420 which extends to the midpoint of United States Highway 580/State Route approximately 300 feet north of Hobart Road in Washoe County and also owns a ten inch water pipe within said right of way both of which are a part of the Marlette Water siphon owned by Storey County, which connect to the Marlette Lake Water System; and

WHEREAS, the DEPARTMENT recognizes the prior right (see Attachment C) of SPWD's Marlette Lake Water System and the historical and practical need to continue to provide water for STOREY while still preserving SPWD's obligations as owner of the Marlette Lake Water System to ensure that the State's water needs are met; and

WHEREAS, NRS 277.180 authorizes any one or more public agencies to contract with any one or more other public agencies to perform any governmental service, activity, or undertaking which any of the public agencies entering into the agreement is authorized by law to perform and refers to such as an Interlocal Contract, hereinafter called an Agreement; and

WHEREAS, the purpose of this Agreement is to grant to the DEPARTMENT the authority to enter into a contract for the replacement of approximately 360 lineal feet of an existing 140

year-old water line located under HWY I -580 in compliance with current standards (NAC 408.453) and to fund certain of SPWD's costs related to such replacement (the "PROJECT"); and

WHEREAS, the services of the SPWD will be of benefit to the DEPARTMENT and to the people of the State of Nevada; and

WHEREAS, the SPWD is willing and able to perform the services described herein.

NOW, THEREFORE, in consideration of the premises and of the mutual covenants herein contained, it is agreed as follows:

ARTICLE I - SPWD AGREES

1. To contract for the design of the replacement of approximately 360 lineal feet of water line within SPWD's and STOREY's existing easements crossing I-580 R/W in accordance with current DEPARTMENT and Federal Interstate standards in an amount not to exceed Forty-Eight Thousand Seven Hundred Fifty and No/100 Dollars (\$48,750.00).

2. To contract for a geotechnical investigation in the amount of Eleven Thousand Five Hundred and No/100 Dollars (\$11,500.00).

3. To contract for quality assurance inspection and engineering services during construction of the PROJECT in an amount not to exceed Fifty Thousand and No/100 Dollars (\$50,000.00). SPWD shall not stop the DEPARTMENT's contractor's work during construction of the PROJECT in the event it believes any errors occur, but, instead, contact the DEPARTMENT's Project Manager or Resident Engineer and advise them of the circumstances.

4. To provide SPWD Project Management and Inspection of the PROJECT at a costs not to exceed Twenty Thousand and No/100 Dollars (\$20,000.00).

5. To accept maintenance responsibility for the SPWD's portion of the PROJECT after completion of construction. This term shall survive expiration of this Agreement.

6. To acknowledge that the plans and specifications for the PROJECT were developed under contract by SPWD and, therefore, DEPARTMENT is not providing any warranty for the PROJECT after its completion and the SPWD waives any cause of action against the DEPARTMENT related to the quality or workmanship of the PROJECT.

7. To provide the DEPARTMENT with detailed invoices in accordance with NAC 408.379 to support any requests for reimbursement of costs under this Agreement.

ARTICLE II - STOREY AGREES

1. To accept maintenance responsibility for STOREY' portion of the PROJECT after completion of construction. This term shall survive expiration of this Agreement.

2. To grant SPWD authority and responsibility for quality assurance inspection of STOREY's portion of the PROJECT. In the event STOREY discovers what it believes to be any quality or workmanship issues related to the PROJECT, it will address such issues with SPWD and not the DEPARTMENT.

3. To acknowledge that the DEPARTMENT is not providing any warranty for the PROJECT after its completion and to waive any cause of action against the DEPARTMENT related to the quality or workmanship of the PROJECT.

ARTICLE III - DEPARTMENT AGREES

1. To enter into a construction contract for the replacement of approximately 360 lineal feet of water line within SPWD's and STOREY's existing easement crossing I-580 R/W in accordance with current DEPARTMENT and Federal Interstate standards, hereinafter the PROJECT in accordance with the plans and specifications developed under contract by SPWD and attached hereto as Attachments "A" and "B: and incorporated herein. The DEPARTMENT has agreed to enter into this Agreement on the understanding between the parties hereto that the DEPARTMENT shall not be subject to any liability related to or arising out of such plans and specifications.

2. To fund the PROJECT.

3. To provide SPWD and STOREY with Non-Revocable permits for the newly relocated water line constructed within SPWD's and STOREY's existing easements.

4. To reimburse SPWD for its costs to design the PROJECT in an amount not to exceed Forty-Eight Thousand Seven Hundred Fifty and No/100 Dollars (\$48,750.00) based on actual costs supported by detailed invoices provided in accordance with NAC 408.379.

5. To reimburse SPWD for its actual costs during construction for quality assurance inspection and engineering services in an amount not to exceed Fifty Thousand and No/100 Dollars (\$50,000.00) based on actual costs supported by detailed invoices provided in accordance with NAC 408.379.

6. To reimburse SPWD for its actual costs during construction for Project Management and Inspection in an amount not to exceed Twenty Thousand and No/100 Dollars (\$20,000.00) based on actual costs supported by detailed invoices provided in accordance with NAC 408.379.

7. To reimburse SPWD for its actual costs for geotechnical investigation in the amount of Eleven Thousand Five Hundred and No/100 Dollars (\$11,500.00) based on actual costs supported by detailed invoices provided in accordance with NAC 408.379.

8. To allow SPWD and their consultants access to the construction site for inspections and testing and coordinate and oversee and ensure contractor compliance with such inspection and testing results.

9. To enforce contractor compliance with all terms and conditions of the construction contract, and if reasonably requested by SPWD and Storey pursue and enforce contractor compliance with all contractor warranty requirements.

ARTICLE IV - IT IS MUTUALLY AGREED

1. The term of this Agreement shall be from the date first written above through and including May 30, 2017, or until the construction of all improvements contemplated herein have been completed and accepted by STOREY and SPWD, save and except the responsibility for maintenance as specified herein, whichever occurs first.

2. This Agreement shall not become effective until and unless approved by appropriate official action of the governing body of each party.

3. The parties expressly agree that this Agreement shall be terminated immediately if for any reason federal and/or State Legislature funding ability to satisfy this Agreement is withdrawn, limited, or impaired.

4. All notices or other communications required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if delivered personally in hand, by facsimile with simultaneous regular mail, or by certified mail, return receipt requested, postage prepaid on the date posted, and addressed to the other party at the address set forth below:

FOR DEPARTMENT: Rudy Malfabon, P.E., Director
Attn.:
Nevada Department of Transportation
Division:
1263 South Stewart Street
Carson City, Nevada 89712
Phone:
Fax:
E-mail:

FOR SPWD: Gustavo 'Gus' Nunez
515 E. Musser Street
Carson City, NV 89701
Phone: 775-684-4141
Fax: 775-684-4142
E-mail:gnunez@admin.nv.gov

FOR STOREY: County Manager, Storey County
Storey County Courthouse
P.O. Box 176
Virginia City, Nevada 89440
(775) 847-0968

5. Each party agrees to keep and maintain under generally accepted accounting principles full, true, and complete records and documents (written, electronic, computer related, or otherwise) pertaining to this Agreement and present, at any reasonable time, such information for inspection, examination, review, audit, and copying at any office where such records and documentation are maintained. Such records and documentation shall be retained for three (3) years after final payment is made.

6. Failure of either party to perform any obligation of this Agreement shall be deemed a breach. Except as otherwise provided for by law or this Agreement, the rights and remedies of the parties shall not be exclusive and are in addition to any other rights and remedies provided by law or equity, including but not limited to the recovery of actual damages, and the prevailing party's reasonable attorney's fees and costs.

7. The parties do not waive and intend to assert available NRS Chapter 41 liability limitations in all cases. Agreement liability of both parties shall not be subject to punitive damages. Actual damages for any DEPARTMENT breach shall never exceed the amount of funds which have been appropriated for payment under this Agreement, but not yet paid, for the fiscal year budget in existence at the time of the breach.

8. Neither party shall be deemed to be in violation of this Agreement if it is prevented from performing any of its obligations hereunder due to strikes, failure of public transportation, civil or military authority, act of public enemy, accidents, fires, explosions, or acts of God, including without limitations, earthquakes, floods, winds, or storms. In such an event the intervening cause must not be through the fault of the party asserting such an excuse, and the excused party is obligated to promptly perform in accordance with the terms of the Agreement after the intervening cause ceases.

9. To the fullest extent of NRS Chapter 41 liability limitations, each party shall indemnify, hold harmless, and defend, not excluding the other's right to participate, the other from and against all liability, claims, actions, damages, losses, and expenses, including but not limited to reasonable attorney's fees and costs, arising out of any alleged negligent or willful acts or omissions of the party, its officers, employees, and agents. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity, which would otherwise exist as to any party or person, described herein. This indemnification obligation is conditioned upon service of written notice to the other party within thirty (30) calendar days of the indemnified party's notice of actual or pending claim or cause of action. The indemnifying party shall not be liable for reimbursement of any attorney's fees and costs incurred by the indemnified party due to said party exercising its right to participate with legal counsel.

10. The parties are associated with each other only for the purposes and to the extent set forth in this Agreement. Each party is and shall be a public agency separate and distinct from the other party and shall have the right to supervise, manage, operate, control, and direct performance of the details incident to its duties under this Agreement. Nothing contained in this Agreement shall be deemed or construed to create a partnership or joint venture, to create relationships of an employer-employee or principal-agent, or to otherwise create any liability for one agency whatsoever with respect to the indebtedness, liabilities, and obligations of the other agency or any other party.

11. Failure to declare a breach or the actual waiver of any particular breach of the Agreement or its material or nonmaterial terms by either party shall not operate as a waiver by such party of any of its rights or remedies as to any other breach.

12. The illegality or invalidity of any provision or portion of this Agreement shall not affect the validity of the remainder of the Agreement and this Agreement shall be construed as if such provision did not exist. The unenforceability of such provision or provisions shall not be held to render any other provision or provisions of this Agreement unenforceable.

13. Neither party shall assign, transfer, or delegate any rights, obligations, or duties under this Agreement without the prior written consent of the other party.

14. Except as otherwise provided by this Agreement, all or any property presently owned by either party shall remain in such ownership upon termination of this Agreement, and there shall be no transfer of property between the parties during the course of this Agreement.

15. Pursuant to NRS Chapter 239, information or documents may be open to public inspection and copying. The parties will have the duty to disclose unless a particular record is confidential by law or a common law balancing of interests.

16. Each party shall keep confidential all information, in whatever form, produced, prepared, observed, or received by that party to the extent that such information is confidential by law or otherwise required by this Agreement.

17. The parties hereto represent and warrant that the person executing this Agreement on behalf of each party has full power and authority to enter into this Agreement and that the parties are authorized by law to perform the services set forth herein.

18. This Agreement and the rights and obligations of the parties hereto shall be governed by, and construed according to, the laws of the State of Nevada. The parties consent to the exclusive jurisdiction of the Nevada First Judicial District Court, Carson City, Nevada, for enforcement of this Agreement.

19. It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of this Agreement to create in the public or any member thereof a third party beneficiary status hereunder, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement.

20. In connection with the performance of work under this Agreement, the parties agree not to discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, sexual orientation, or age, including, without limitation, with regard to employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff, or termination, rates of pay or other forms of compensation, and selection for training, including, without limitation, apprenticeship. The parties further agree to insert this provision in all subcontracts hereunder, except subcontracts for standard commercial supplies or raw materials.

21. This Agreement shall not become effective until and unless approved by the Nevada State Board of Examiners.

22. This Agreement constitutes the entire agreement of the parties and such is intended as a complete and exclusive statement of the promises, representations, negotiations, discussions, and other agreements that may have been made in connection with the subject matter hereof. Unless an integrated attachment to this Agreement specifically displays a mutual intent to amend a particular part of this Agreement, general conflicts in language between any such attachment and this Agreement shall be construed consistent with the terms of this Agreement. Unless otherwise expressly authorized by the terms of this Agreement, no modification or amendment to this Agreement shall be binding upon the parties unless the same is in writing and signed by the respective parties hereto and approved by the Nevada Attorney General.

23. This Agreement may be executed in one or more counterparts, each of which will be deemed an original and all of which together will constitute one and the same Agreement.

(Continued on the next page)

IN WITNESS WHEREOF, the parties have executed this Agreement on the day and year first above written.

Storey County Board of Commissioners

State of Nevada, Department of Administration, Public Works Division

By: _____
Marshall McBride, Chair
Storey County Commission

By: _____

Date: _____

Date: _____

Attest:

Approved as to form:
Adam Paul Laxalt
Attorney General

By: _____
Vanessa Stephens
County Clerk

By: _____
Susan K. Stewart
Deputy Attorney General

Approved as to form:

Date: _____

By: _____
District Attorney

Date: _____

State of Nevada, Department of Transportation

Board of Examiners:

By: _____
Director

Date: _____

Date: _____

Approved as to Legality and Form:
Adam Paul Laxalt
Attorney General

By: _____
Louis F. Holland
Senior Deputy Attorney General

Date: _____

STATE	NEVADA	ACCOM PROJECT NO.	60444882	COUNTY	WASHOE	SHEET	1
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Attachment A

NEVADA STATE
PUBLIC WORKS BOARD

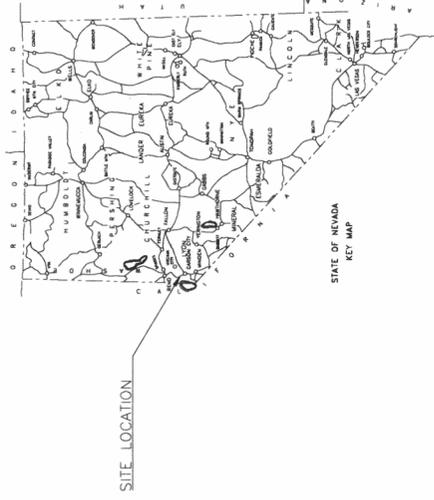
CONSTRUCTION PLANS

WASHOE COUNTY

WATERLINE REPLACEMENT PROJECT ON HIGHWAY 395
300 FEET NORTH OF HOBART ROAD

INDEX OF SHEETS

- 1 TITLE SHEET AND SITE LOCATION SKETCHES
- 2 WATER MAINS, ABIS, AND LEGEND
- 3 DETAILS I
- 4 DETAILS II



SITE LOCATION

SITE LOCATION



FEBRUARY 3, 2016



Know where's below.
Call before you dig.



DESIGNER	DWAYNE DEUTSCHER	1-(916)-679-2051
COORDINATOR	SUJAN PUNJAMURTHULA	1-(916)-679-2082
PROJECT MANAGER	TOM GUINN	1-(725)-317-5555

DESIGN DIVISION

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE WORK WITH THE APPROPRIATE UTILITY PROVIDER WHEN WORKING NEAR POWER POLES/LINES, OR ANY OTHER UTILITY STRUCTURES, BOXES, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING UTILITY COMPANIES WITH ACCESS TO THE SITE FOR UTILITY OPERATION AND MAINTENANCE. ANY SUCH WORK SHALL BE COORDINATED THROUGH THE CONSTRUCTION MANAGER.
- CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING AND INSTALLING ALL UTILITY MARKERS AND SURVEY MARKERS. CONTRACTOR SHALL PROTECT THE HEALTH AND SAFETY OF THE GENERAL PUBLIC AND WORKERS AND TO PROTECT THE PROPERTY AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND REGULATIONS APPLICABLE TO ALL APPLICABLE WORK PERFORMED UNDER THE CONTRACT.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SIZES, AND LOCATIONS OF ALL EXISTING FACILITIES AND FEATURES BEFORE ORDERING STEEL PIPE AND CASING AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL CONSTRUCTION MATERIALS SHALL CONFORM TO THE CONTRACT SPECIFICATIONS.
- UTILITY LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. ALL EXISTING UTILITIES SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION. REPLACEMENT AS PART OF THE WORK.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT, PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES WHOSE UTILITIES MAY BE AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL UNDERGROUND UTILITIES THAT MAY POSSIBLY INTERFERE WITH THE ABOVE OR BELOW GROUND IMPROVEMENTS LOCATED IN THE FIELD. THE CONTRACTOR AND ANY SUBCONTRACTOR, IS REQUIRED TO NOTIFY THE ENGINEER IMMEDIATELY BY CALLING 1-800-727-7269.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UP-TO-DATE RECORD DRAWINGS THAT REFLECT THE LOCATION AND AS-BUILT CONDITION OF ALL PROJECT ELEMENTS.
- EXISTING FENCING AND GATES WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED AS REQUIRED FOR CONSTRUCTION AND SPECIFIED ON THE DRAWINGS. SALVAGE OF EXISTING FENCING OR BARRIERS ARE REMOVED TEMPORARY BARRIERS SHALL BE PROVIDED. FENCING AND GATES SHALL BE REPLACED FOLLOWING CONSTRUCTION.
- IF FENCING IS REMOVED DURING THE PROJECT, THEN CONTRACTOR SHALL REPLACE FENCING WITH NEW FENCING THAT IS EQUAL TO OR BETTER THAN THE EXISTING FENCING.
- ALL EXISTING GAS LINES TO BE LOCATED ON A PROPERTY LINE SHALL BE LOCATED BY CONTRACTOR'S QUALIFIED LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER.
- CONTRACTOR SHALL ADHERE TO THE FOLLOWING DUST CONTROL MEASURES:
 - REDUCE THE AMOUNT OF DISTURBED AREA WHERE POSSIBLE.
 - USE WATER TRUCKS OR SPRINKLER SYSTEM IN SUFFICIENT QUANTITIES TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE INCREASED WATERING FREQUENCY IS REQUIRED WHENEVER WIND SPEEDS EXCEED 15 MPH. RECLAIMED WATER SHALL BE USED WHEREVER POSSIBLE.
 - ALL DIRT SURFACES SHALL BE COVERED WITH WATER OR SPRAYED DAILY AS NEEDED OR COVERED TO PREVENT MOISTURE OF DUST.
 - EXPOSED GROUND AREAS THAT ARE PLANNED TO BE REWORKED AT DATES GREATER THAN ONE MONTH AFTER INITIAL GRADING SHALL BE SOON WITH A ESTABLISHED VEGETATION (GRASS SEED AND WATERED) UNTIL VEGETATION IS ESTABLISHED.
 - VEHICLE SPEED FOR ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15 MPH ON ANY UNPAVED SURFACES AT THE CONSTRUCTION SITE.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONTRACT ACTIVITIES.
- ADMINISTRATION OF ALL WORK PERFORMED BY THE CONTRACTOR SHALL COMPLY WITH THE GENERAL SPECIFICATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING ADEQUACY OF SITE ACCESS.
- UPON THE COMPLETION OF WORK, THE CONTRACTOR WILL ENSURE THE SITE IS RETURNED TO CONDITIONS EXISTING PRIOR TO CONSTRUCTION WORK. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE. ALL EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF THEIR OPERATIONS.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROTECTION OF BELLS AND BOWLS OF ALL EXISTING STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPROVEMENTS WITHIN OR ADJACENT TO THE JOB SITE WHICH ARE NOT DESIGNATED FOR REMOVAL AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF THEIR OPERATIONS.
- ALL WORK SHALL CONFORM TO THE 2014 EDITION OF THE NEVADA DEPARTMENT OF CONSTRUCTION THESE PLANS, THE GEOTECHNICAL REPORT, AND CONTRACT SPECIFICATIONS.
- JACKING AND RECEIVING PITS SHALL BE BACKFILLED WITH STRUCTURAL FILL AS SPECIFIED IN THE GEOTECHNICAL REPORT.

PERMIT NOTES

- PRECONSTRUCTION ACTIVITIES WILL BE EXERCISED BY CONTRACTOR TO AVOID DAMAGE TO EXISTING UTILITIES AND FEATURES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL PERSONAL PROPERTY, TOOLS OR EQUIPMENT TAKEN ON OR PLACED UPON THE PROPERTY SHALL REMAIN THE PERSONAL PROPERTY OF CONTRACTOR. SUCH PERSONAL PROPERTY SHALL BE PROTECTED BY CONTRACTOR. AT ITS SOLE RISK AND EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE, INCLUDING DAMAGE CAUSED BY THEFT TO ANY PERSONAL PROPERTY, INCLUDING ANY EQUIPMENT, TOOLS OR MACHINERY ON THE PERMIT PROPERTY.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, INCLUDING DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA) REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAMEN, DISPOSITION OF ANY AND ALL WASTE AND SPILLAGE OBTAINED FROM THE PROPERTY RESULTING FROM THE PERFORMANCE BY CONTRACTOR OF THE WORK DESCRIBED HEREIN.

EROSION CONTROL NOTES

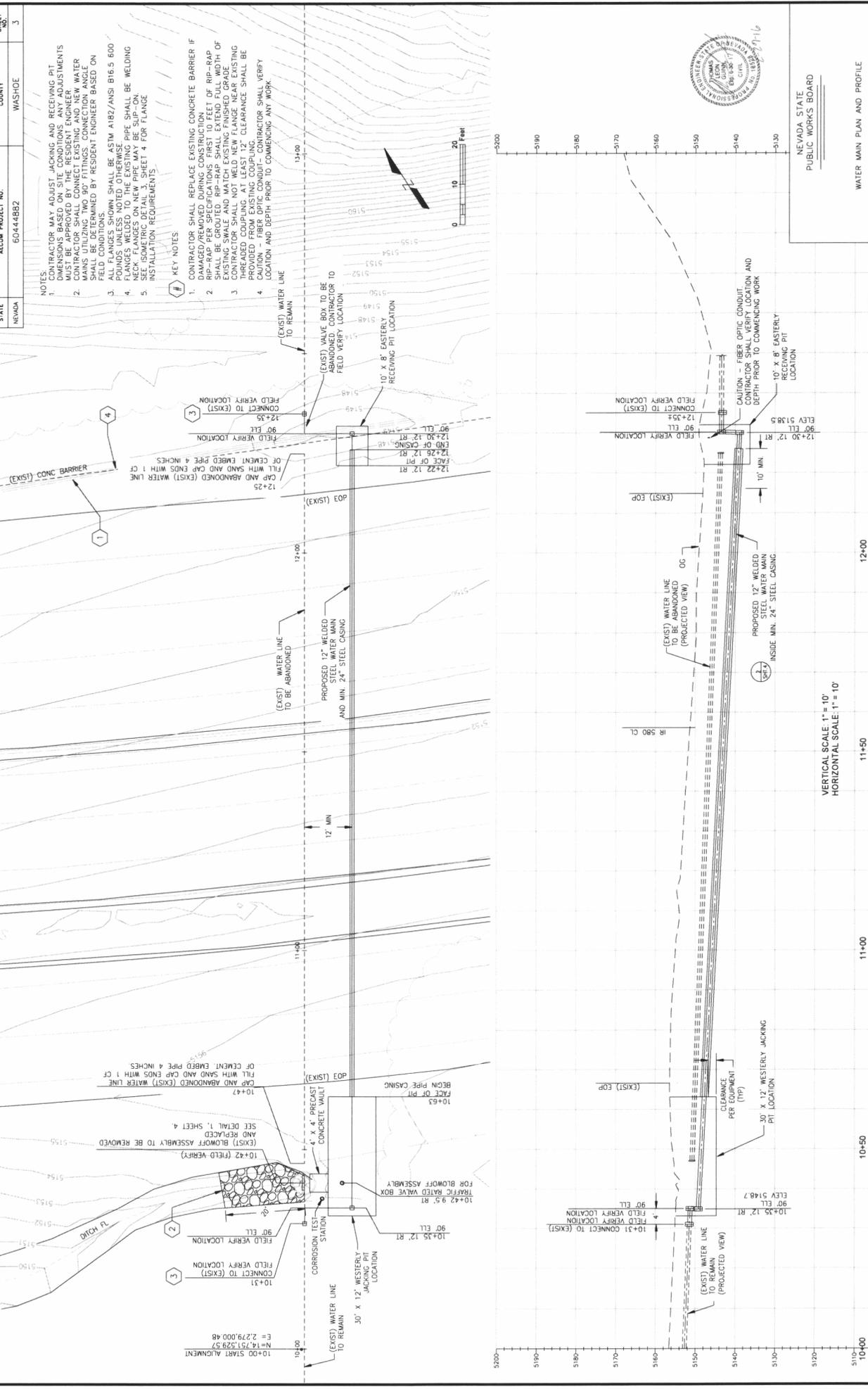
- CONTRACTOR SHALL ALWAYS KEEP DIRT AND DEBRIS ON SITE AT ALL TIMES. PARTICULATES DURING THE RAINY SEASON (OCTOBER TO APRIL 15). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES TO PREVENT ANY WATERCOURSE, INCLUDING ON-SITE STORM DRAINAGE SYSTEMS THIS REQUIREMENT SHALL BE IN EFFECT ON A 24 HOUR PER DAY, 7 DAY PER WEEK BASIS AND SHALL NOT BE DELETED OR MODIFIED IN ANY MANNER. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCREPANCIES OF THE COUNTY ENGINEER OR OTHER AGENCY. EROSION CONTROL MEASURES ARE DETERMINED TO BE REQUIRED. THE CONTRACTOR SHALL AT THEIR SOLE EXPENSE TAKE SUCH MEASURES AS DIRECTED.

OPERATIONAL/SPECIAL NOTES

- OWNER OR CONTRACTOR SHALL NOT OPERATE BURN OFF VALVE UNTIL THE PRELINES HAVE BEEN DRAINED DOWN TO ELEVATION 8725 OR LESS.
- THIS PROJECT IS AN EXTENSION OF AN EXISTING ROADWAY PROJECT ALONG STATE HIGHWAY 580 NEAR CARSON CITY IN WASHOE COUNTY BEING CONDUCTED BY THE NEVADA DEPARTMENT OF TRANSPORTATION (NDOT). ALL SURVEY CONTROL SHOULD BE COORDINATED AND APPROVED BY THE NDOT AND SHOULD CONFORM TO THE ROADWAY PROJECT IN ACCORDANCE WITH NDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION APPROVED IN MAY 2015. (NDOT PROJECT NUMBER SIP-5801-(10)2)
- PRESSURE TEST NEW 12-INCH PIPE IN ACCORDANCE WITH THE PROCEDURES IN SPECIFICATION SECTION 4.00515 AT 875 PSI. ISOLATE NEW PIPE FROM OLD PIPE PER DETAIL 3, SHEET 3. DURING PRESSURE TESTING, CONTRACTOR SHALL PROVIDE TESTING PLAN FOR OWNER REVIEW AND APPROVAL.
- 12-INCH PIPE REQUIREMENTS
 - ASTM A106 GRADE B SEAMLESS.
 - SCHEDULE 40S. NOMINAL WALL THICKNESS 0.500 INCHES.
 - MINIMUM WORKING PRESSURE SHALL BE 875 PSI.
 - WELDED JOINTS SHALL BE "SINGLE V-GROOVE WELD, BUTT JOINT".
 - JOINTS SHALL BE FUSION BONDED EXPERT IN ACCORDANCE WITH SPECIFICATION SECTION 4.00515. AFTER INSPECTION AND APPROVAL, JOINTS SHALL BE PROTECTED WITH FUSION BONDED EXPERT. FIELD WELDED JOINTS SHALL BE CLEANED AND PAINTED USING AUTOMATED MACHINERY AS APPROVED BY THE RESIDENT ENGINEER.
 - ALL EXTERIOR SURFACES INCLUDING CARRIER PIPE INSIDE OF THE CASING SHALL BE TAPE WRAPPED IN ACCORDANCE WITH SPECIFICATION SECTION 09975.
 - FLANGES SHALL BE ASME/ANSI B16.5 600 LB.
 - CONTRACTOR SHALL EXPOSE EXISTING 12 INCH PRELINE TO DETERMINE LOCATIONS, DEPTH AND DIRECTION. BASED ON THIS DETERMINATION CONTRACTOR SHALL PROCEED TO DISASSEMBLE EXISTING ASSEMBLIES THAT MINIMIZE FIELD WELDING AND FIT UP.
 - 6-INCH PIPE REQUIREMENTS
 - ASTM A53, GRADE B SEAMLESS OR ERW.
 - SCHEDULE 40, NOMINAL WALL THICKNESS 0.280.
 - MINIMUM WORKING PRESSURE SHALL BE 1000 PSI.
 - WELDED JOINTS SHALL BE "SINGLE V-GROOVE WELD, BUTT JOINT".
 - JOINTS SHALL BE FUSION BONDED EXPERT IN ACCORDANCE WITH SPECIFICATION SECTION 09975.
 - BURIED PIPE JOINTS SHALL BE FIELD WELDED AND TAPE WRAPPED.
 - EXPOSED EXTERIOR SURFACES SHALL BE COATED IN ACCORDANCE WITH SECTION 099000 EXPOSED METAL/AIRBORNE WEATHERING OR WATER CONDENSATION ENVIRONMENT.
 - FLANGES SHALL BE ASME/ANSI B16.5 600 LB UNLESS NOTED OTHERWISE.

ABBREVIATIONS

AB	AGGREGATE BASE	AG	AGRICULTURE	AG	AGRICULTURE	AG	AGRICULTURE
AC	ASPHALT CONCRETE	AI	ASPHALT	AI	ASPHALT	AI	ASPHALT
AD	ASPHALT CONCRETE BASE	AL	ALTERNATE	AL	ALTERNATE	AL	ALTERNATE
AE	ASPHALT CONCRETE CURVE	AM	ALTERNATE	AM	ALTERNATE	AM	ALTERNATE
AF	ASPHALT CONCRETE CURVE	AN	ALTERNATE	AN	ALTERNATE	AN	ALTERNATE
AG	AGRICULTURE	AO	ALTERNATE	AO	ALTERNATE	AO	ALTERNATE
AH	AGRICULTURE	AP	ALTERNATE	AP	ALTERNATE	AP	ALTERNATE
AI	ASPHALT	AQ	ALTERNATE	AQ	ALTERNATE	AQ	ALTERNATE
AJ	ASPHALT	AR	ALTERNATE	AR	ALTERNATE	AR	ALTERNATE
AK	ASPHALT	AS	ALTERNATE	AS	ALTERNATE	AS	ALTERNATE
AL	ALTERNATE	AT	ALTERNATE	AT	ALTERNATE	AT	ALTERNATE
AM	ALTERNATE	AV	ALTERNATE	AV	ALTERNATE	AV	ALTERNATE
AN	ALTERNATE	AW	ALTERNATE	AW	ALTERNATE	AW	ALTERNATE
AO	ALTERNATE	AX	ALTERNATE	AX	ALTERNATE	AX	ALTERNATE
AP	ALTERNATE	AY	ALTERNATE	AY	ALTERNATE	AY	ALTERNATE
AQ	ALTERNATE	AZ	ALTERNATE	AZ	ALTERNATE	AZ	ALTERNATE
AR	ALTERNATE	BA	ALTERNATE	BA	ALTERNATE	BA	ALTERNATE
AS	ALTERNATE	BB	ALTERNATE	BB	ALTERNATE	BB	ALTERNATE
AT	ALTERNATE	BC	ALTERNATE	BC	ALTERNATE	BC	ALTERNATE
AV	ALTERNATE	BD	ALTERNATE	BD	ALTERNATE	BD	ALTERNATE
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EY	ALTERNATE	FG	ALTERNATE	FG	ALTERNATE	FG	ALTERNATE
EZ	ALTERNATE	FH	ALTERNATE	FH	ALTERNATE	FH	ALTERNATE
FA	ALTERNATE</						



- NOTES:**
- CONTRACTOR MAY ADJUST JACKING AND RECEIVING PIT LOCATIONS TO ACCOMMODATE ADJUSTMENTS TO EXISTING WATER MAINS. ALL ADJUSTMENTS MUST BE APPROVED BY THE RESIDENT ENGINEER.
 - CONTRACTOR SHALL CONNECT EXISTING AND NEW WATER MAINS UTILIZING TWO 90° FITTINGS. CONNECTION ANGLE SHALL BE APPROVED BY RESIDENT ENGINEER BASED ON FIELD CONDITIONS.
 - ALL FLANGES SHOWN SHALL BE ASTM A182/ANSI B16.5 600 POUNDS UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE PERFORMED BY A WELDER WHO IS CURRENTLY LICENSED IN THE STATE OF NEVADA. WELDING SHALL BE WELDING PERFORMED IN ACCORDANCE WITH THE WELDER'S CERTIFICATE OF QUALIFICATION. SEE ISOMETRIC DETAIL 3, SHEET 4 FOR FLANGE INSTALLATION REQUIREMENTS.
- KEY NOTES:**
- CONTRACTOR SHALL REPLACE EXISTING CONCRETE BARRIER IF DAMAGED/REMOVED DURING CONSTRUCTION.
 - RIP-RAP PER SPECIFICATIONS FIRST TO FEET OF RIP-RAP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 - CONTRACTOR SHALL MATCH EXISTING FINISHED GRADE TO NEW GRADE. FINISHED GRADE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL NOT WELD NEW FLANGE NEAR EXISTING THREADED COUPLING AT LEAST 12" CLEARANCE SHALL BE MAINTAINED FROM EXISTING COUPLING.
 - CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO COMMENCING ANY WORK.



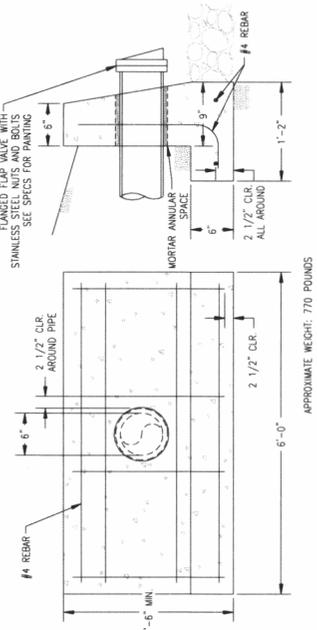
NEVADA STATE
 PUBLIC WORKS BOARD

AECOM
 AECOM Technical Services, Inc.
 2415 Raggio Parkway, Suite 200
 Reno, NV 89502
 Project No. 60444882
 Date: 11/16/2020

VERTICAL SCALE 1" = 10'
 HORIZONTAL SCALE 1" = 10'

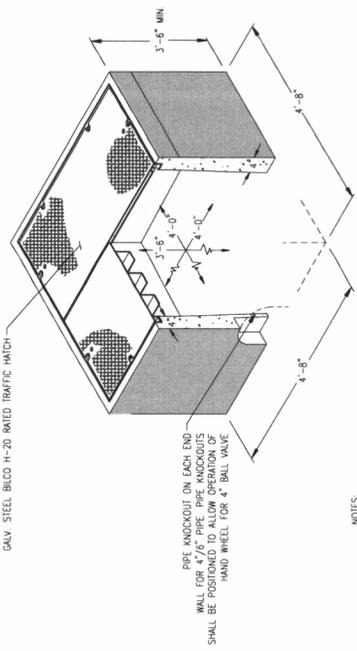
WATER MAIN PLAN AND PROFILE

STATE	NEVADA	ACCOM PROJECT NO.	60444882	COUNTY	WASHOE
SHEET NO.	5				



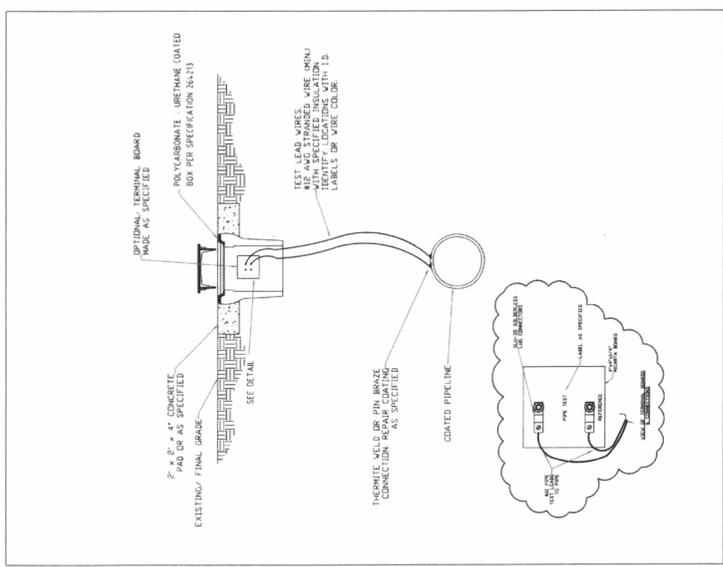
- NOTES:**
1. ALL REBAR SHALL BE NO. 4. 2 1/2" CLEARANCE SHALL BE PROVIDED FOR REBAR COVER.
 2. INVERT OF PIPE SHALL BE POSITIONED 12" ABOVE RIP-RAP.

2 CONCRETE HEADWALL
1:1/2"=1'-0"

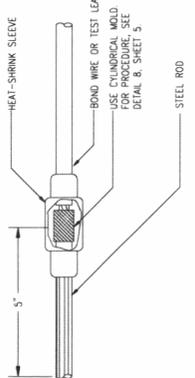


- NOTES:**
1. CONCRETE VAULT SHALL BE PRECAST 4'-0" X 4'-0" TRAFFIC RATED WATER VAULT.
 2. VERTICALLY POSITION VAULT TO ALLOW FREE MOVEMENT OF VALVE HAND WHEEL.
 3. BALL VALVE SHALL BE PLACED AT THE BOTTOM OF THE VAULT.
 4. INSTALL 8" CONCRETE CURB WITH #4 REBAR AROUND VAULT.

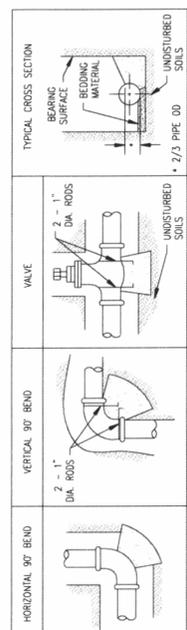
1 PRECAST CONCRETE VAULT
1"=1'-0"



4 CORROSION TEST STATION
1"=1'-0"

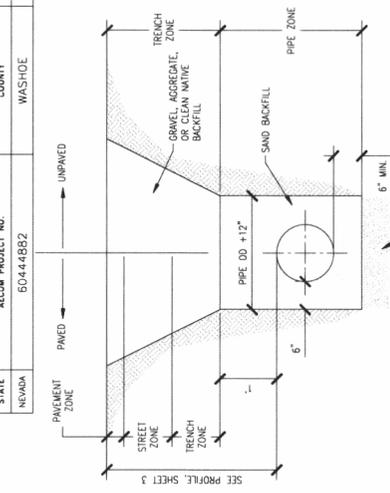


5 WIRE-ROD CONNECTION
1"=1'-0"



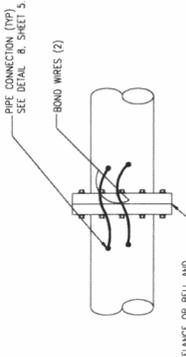
- NOTES:**
1. SIZE OF BLOCKS TO BE DETERMINED BY THE CONTRACTOR, TO BE ADEQUATE FOR SOIL CONDITIONS AND PRESSURE OF 875 PSI.
 2. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM CURING TOO FAST.
 3. THRUST BLOCKS SHALL ONLY BE USED FOR 4" PIPE.
 4. THRUST BLOCKS TO BE IN PLACE 7 (SEVEN) DAYS BEFORE TESTING.

6 THRUST BLOCKS
1"=1'-0"

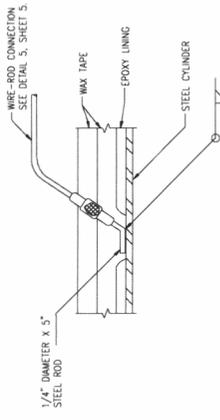


- NOTE:**
PAVEMENT REPAIR SHALL COMPLY WITH INDOT STANDARDS FOR BITUMINOUS PAVEMENTS.

3 PIPE TRENCH
1"=1'-0"



7 JOINT BOND
1"=1'-0"



- NOTE:**
INSTALL NEAR FLANGE WELD JOINT WHERE INTERIOR WILL BE RE-COATED APPLY WAX TAPE COMING PER SPECIFICATIONS.

8 TEST LEAD CONNECTION
1"=1'-0"

NEVADA STATE
PUBLIC WORKS BOARD

DETAILS II



AECOM
AECOM Technical Services, Inc.
2000 South Rainbow Blvd., Suite 200
Las Vegas, NV 89102
702.734.7200
www.aecom.com

Attachment B

CONSTRUCTION DOCUMENT PROJECT MANUAL



**MARLETTE WATER CROSSING
US HIGHWAY 395
WASHOE COUNTY, NEVADA**

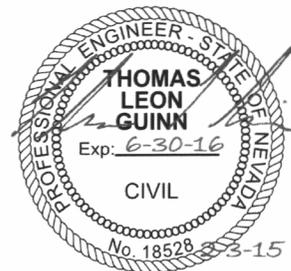
SPWD PROJECT NO. 16-A004

FEBRUARY 2016

PREPARED BY:

AECOM

1 EAST FIRST STREET
16TH FLOOR
RENO, NV 89521
(775) 870-4923



PROJECT DIRECTORY

Owner

State of Nevada Public Works Department
515 East Musser Street
Carson City, NV 89701
Gustavo Nunez
(775) 684-4100
gnunez@admin.nv.gov

Civil Engineering

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PROJECT SPECIFICATIONS

For the

MARLETTE WATER CROSSING
US HIGHWAY 395

Washoe County, Nevada

February 2016

OWNER

State of Nevada Public Works Division
515 E. Musser Street, Suite 102
Carson City, Nevada 89701-4263
775.684.4141

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099754	Polyethylene Sheet Encasement (AWWA C105)
099757	Polyethylene Tape Pipe Coating (AWWA C214)
099761	Fusion-Bonded Epoxy Linings and Coatings
264213	Cathodic Protection and Joint Bonding
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312316	Trenching, Backfilling and Compacting
317216	Jacked Steel Casing
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400515	Pressure Testing of Piping
400540	Ball Valves
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402051	Installation of Buried Steel or Concrete Pipe
402053	Carbon Steel Pipe (16 inches & Smaller)

A – DATA TO BE FURNISHED BY THE CONTRACTOR, SUBMITTALS

Submittals covered by these Specifications shall include manufacturers' information, samples, requests for substitutions, and miscellaneous work-related submittals. Submittals shall also include, but not be limited to, all mechanical, materials, reinforcing steel, fabricated items, and piping details. The Contractor shall furnish all contract documents, specifications, descriptive data, certificates, samples, tests, methods, schedules, and manufacturer's installation and other instructions as specifically required in the contract documents to demonstrate fully that the materials and equipment to be furnished and the methods of work comply with the Specifications and intent of the contract documents.

The Contractor shall be responsible for the accuracy and completeness of the information contained in each submittal and shall assure that the material, equipment or method of work shall be as described in the submittal. The Contractor shall verify that all features of all products conform to the specified requirements. Submittal documents shall be clearly edited to indicate only those items, models, or series of equipment, which are being submitted for review. All extraneous materials shall be crossed out or otherwise obliterated. The Contractor shall ensure that there is no conflict with other submittals and notify the Engineer in each case where the submittal may affect the work of another Contractor or the State. The Contractor shall coordinate submittals among their Subcontractors and Suppliers.

The Contractor shall coordinate submittals so that work will not be delayed. Contractor shall coordinate and schedule different categories of submittals, so that one will not be delayed for lack of coordination with another. No extension of time will be allowed because of failure to properly schedule submittals. The Contractor shall not proceed with work related to a submittal until the submittal process is complete.

The Contractor shall use the submittal transmittal form found in this for each submittal. The Contractor shall certify on each submittal transmittal document that they have reviewed the submittal, verified field conditions, and complied with the contract documents.

If the Contractor proposes to provide material, equipment, or method of work, which deviates from the contract documents, they shall indicate so under "deviations" on the transmittal form accompanying the submittal copies.

When the contract documents require a submittal, the Contractor shall submit four (4) copies of all information plus one reproducible original of all information.

Unless otherwise specified, the Engineer shall have ten (10) calendar days after receipt of submittal to review and comment. The engineer shall retain the reproducible original.

Subject to NRS 338.140, review of contract documents, methods of work, or information regarding materials or equipment the Contractor proposes to provide, shall not relieve the Contractor of their responsibility for errors therein and shall not be regarded as an assumption of risks or liability by the Engineer or the City, or by any officer or employee thereof, and the Contractor shall have no claim under the contract on account of the failure, or partial failure, of the method of work, material, or equipment so reviewed.

The cost for third and subsequent submittal reviews shall be borne by the Contractor. The cost of reviews for third and subsequent reviews shall be at a rate of \$150 per hour for the Engineer's time.

SUBMITTAL TRANSMITTAL FORM

**SUBMITTAL
TRANSMITTAL**

Submittal Description: _____

Submittal No: _____

Spec Section: _____

	Routing	Sent	Received
OWNER:	Contractor		
PROJECT:	Engineer		
	Contractor		
CONTRACTOR:			

We are sending you Attached Under separate cover via _____

- Submittals for review and comment
- Product data for information only

Remarks: _____

Item	Copies	Date	Section No.	Description	Review action ^a	Reviewer initials	Review comments attached

^a**Note: NET = No exceptions taken; MCN = Make corrections noted; A&R = Amend and resubmit; R = Rejected**
 Attach additional sheets if necessary.

Contractor: Certify either A or B:

- A. We have verified that the material or equipment contained in this submittal meets all the requirements, including coordination with all related work, specified (no exceptions).

B. We have verified that the material or equipment contained in this submittal meets all the requirements specified except for the attached deviations.

<u>No.</u>	<u>Deviation</u>
_____	_____
_____	_____
_____	_____
_____	_____

Certified by:

Contractor's Signature

SECTION 020120 PROTECTING EXISTING UNDERGROUND UTILITIES

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and procedures for protecting existing underground utilities.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Connections to Existing Buried Pipelines: 020130.
- B. Trenching, Backfilling, and Compacting: 312316.

PART 2 - MATERIALS

2.01 REPLACEMENT IN KIND

Except as indicated below or as specifically authorized by the Owner's Representative, reconstruct utilities with new material of the same size, type, and quality as that removed.

PART 3 - EXECUTION

3.01 GENERAL

- A. Replace in kind street improvements, such as curbs and gutters, barricades, traffic islands, signalization, fences, signs, etc., that are cut, removed, damaged, or otherwise disturbed by the construction.
- B. Where utilities are parallel to or cross the construction but do not conflict with the permanent work to be constructed, follow the procedures given below and as indicated in the drawings. Notify the utility owner 48 hours in advance of the crossing construction and coordinate the construction schedule with the utility owner's requirements. For utility crossings not shown in the drawings, refer to the instructions of the Owner's Representative for guidance.
- C. Determine the true location and depth of utilities and service connections which may be affected by or affect the work. Determine the type, material, and condition of these utilities. In order to provide sufficient lead-time to resolve unforeseen conflicts, order materials and take appropriate measures to ensure that there is no delay in work.

3.02 PROCEDURES

- A. Protect in Place: Protect utilities in place, unless abandoned, and maintain the utility in service, unless otherwise specified in the drawings or in the specifications.
- B. Remove and Reconstruct: Where so indicated in the drawings or as required by the Owner's Representative, remove the utility and, after passage, reconstruct it with new materials. Provide temporary service for the disconnected utility.

3.03 COMPACTION

- A. Utilities Protected in Place: Backfill and compact under and around the utility so that no voids are left.
- B. Utilities Reconstructed: Prior to replacement of the utility, backfill the trench and compact to an elevation 1 foot above the top of the ends of the utility. Excavate a cross trench of the proper width for the utility and lay, backfill, and compact.
- C. Alternative Construction--Sand-Cement Slurry: Sand-cement slurry consisting of one sack (94 pounds) of portland cement per cubic yard of sand and sufficient moisture for workability may be substituted for other backfill materials to aid in reducing compaction difficulties. Submit specific methods and procedures for the review of the Owner's Representative prior to construction.

3.04 SPECIAL CONSTRUCTION

- A. Reinforced Concrete Beam: Where indicated in the drawings or as determined by the Owner's Representative, support utilities by a reinforced concrete beam as shown on the utility support details in the drawings. The primary purpose of the beam is to prevent settlement of the utility line after construction. The Contractor is responsible for the protection of the utility during construction and shall incorporate the beam as part of the protection.
- B. Concrete Support Wall: Where indicated in the drawings or as determined by the Owner's Representative, support the utilities by a concrete support wall as shown on the utility support details in the drawings. The purpose of the concrete support wall is to prevent settlement of the utility line after construction. The Contractor is responsible for the protection of the utility during construction.

3.05 THRUST BLOCKS ON WATERLINES

- A. The Contractor's attention is called to thrust blocks for waterlines throughout the project whose thrust is in the direction of the new excavation and, therefore, may be affected by the construction. These waterlines are owned and operated by the Owner. Protect thrust blocks in place or shore to resist the thrust by a means approved by the Owner's representative. If the thrust blocks are exposed or rendered to be ineffective in the opinion of the Owner's Representative, reconstruct them to bear against firm unexcavated or backfill material.

- B. Provide firm support by backfilling that portion of the trench for a distance of 2 feet on each side of the thrust block to be reconstructed from the pipe bedding to the pavement subgrade, with either:
 - 1. Sand-cement slurry (94 pounds of cement per cubic yard).
 - 2. The native material compacted to a relative compaction of 95%.
- C. Then excavate the backfill material for construction of the thrust block.

3.06 ADJACENT PARALLEL UTILITIES

- A. The Contractor's attention is called to the following utilities:

Size and Description	Station	
	From	To
12-inch water line; 725 psi	10+00	12+50

- B. The position of these utilities between the above stations is adjacent the new construction. Protect these utilities from any disturbances and repair the pipelines and associated vaults and appurtenances if they are damaged in any way.

END OF SECTION

SECTION 099000 PAINTING AND COATING

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and application of painting and coating systems for the following surfaces:

- A. Submerged metal.
- B. Exposed metal.
- C. Buried metal.
- D. Fusion-bonded epoxy coated steel.

It does not include coating steel water tanks and reservoirs.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Cold-Applied Wax Tape Coating: 099752.
- B. Polyethylene Tape Coating (AWWA C214): 099757.
- C. Polyethylene Sheet Encasement (AWWA C105): 099754
- D. Extruded Polyolefin Pipe Coating (AWWA C215): 099758.
- E. Fusion-Bonded Epoxy Linings and Coatings: 099761.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit manufacturer's data sheets showing the following information:
 - 1. Percent solids by volume.
 - 2. Minimum and maximum recommended dry-film thickness per coat for prime, intermediate, and finish coats.
 - 3. Recommended surface preparation.
 - 4. Recommended thinners.

5. Statement verifying that the specified prime coat is recommended by the manufacturer for use with the specified intermediate and finish coats.
 6. Application instructions including recommended equipment and temperature limitations.
 7. Curing requirements and instructions.
- C. Submit color swatches.
- D. Submit certificate identifying the type and gradation of abrasives used for surface preparation.
- E. Submit material safety data sheets for each coating.

PART 2 - MATERIALS

2.01 PAINTING AND COATING SYSTEMS

The following index lists the various painting and coating systems by service and generic type:

PAINT COATINGS SYSTEM INDEX

No.	Title	Generic Coating
Submerged Metal Coating Systems		
7.	Submerged Metal, Potable or Nonpotable Water	Epoxy
Exposed Metal Coating Systems		
12.	Exposed Metal, Corrosive Environment	Epoxy (three-coat system)
15.	Exposed Metal, Atmospheric Weathering or Water Condensation Environment	Acrylic
18.	Exposed Metal, Organic Zinc Primer for Shop Coating and Field Touch-Up	Organic zinc
Buried Metal Coating Systems		
23.	Buried Metal	Thixotropic coal-tar pitch
25.	Buried Metal Piping and Tubing	Coal-tar, wax, and polyethylene tape wrap or extruded polyethylene
Coating System for Fusion Epoxy-Coated Steel Surfaces		
66.	Fusion Epoxy-Coated Steel, Color Coding	Epoxy

These systems are specified in detail in the following paragraphs. For each coating, the required surface preparation, prime coat, intermediate coat (if required), topcoat, and coating thicknesses are described. Mil thicknesses shown are minimum dry-film thicknesses.

2.02 SUBMERGED METAL COATING SYSTEMS

A. System No. 7--Submerged Metal, Potable or Nonpotable Water:

Type: Epoxy.

Service Conditions: For use with structures, valves, piping, or equipment immersed in potable or nonpotable water.

Surface Preparation: SSPC SP-10.

Coating System: Apply the manufacturer's recommended number of coats to attain the specified minimum coating thickness. Products: Devoe Bar-Rust 233H, Tnemec N140 or 100, Sherwin-Williams Tank Clad HS B62-80, PPG AQUAPON® LT NSF Low Temperature Epoxy Coatings 95-172, Carboline Carboguard 891, Ameron 395, International Interline 785HS, Carboline Plasite 7133 or 9133, Keysite 740, Scotchkote 306, or equal; 10 mils total dry film thickness minimum or maximum recommended dry film coverage rate. Color of topcoat: white. Each coat shall be different color than the one preceding it.

2.03 EXPOSED METAL COATING SYSTEMS

A. System No. 12--Exposed Metal, Corrosive Environment:

Type: Gloss polyamide cured epoxy having a minimum volume solids content of 50% with epoxy prime coat.

Service Conditions: For use with metal structures or pipes subjected to water condensation and chemical fumes, such as hydrogen sulfide.

Surface Preparation: SSPC SP-10.

Prime Coat: Polyamide-cured epoxy primer having minimum volume solids content of 50% (ASTM D2697). Products: Carboline 890 or 893, ICI Devoe Devran 224HS, Tnemec N69, International Interguard 750HS, Ameron 385, Sherwin-Williams Macropoxy 646 B58-600, PPG PITT-GUARD® Direct-to-Rust Epoxy Mastic Coating 97-145 series, or equal. Apply to a minimum dry-film thickness of 4 mils.

Finish Coat: Two coats of Carboline 890, two coats of ICI Devoe Devran 224HS, two coats Tnemec N69, two coats of International Interguard 760HS, two coats of Ameron 385, two coats of Sherwin-Williams Macropoxy 646 B58-600, two coats of PPG Tile-8® Gloss Epoxy 95-6749, or equal. Apply to a thickness of 4 mils per coat.

B. System No. 15--Exposed Metal, Atmospheric Weathering or Water Condensation Environment:

Type: Gloss alkyd enamel having a minimum volume solids content of 46% with alkyd primer.

Service Conditions: For use on interior and exterior metal and piping subject to sunlight, weathering, humidity, or water condensation.

Surface Preparation: SSPC SP-6.

Prime Coat: Carboline Carbocoat 150 Universal Primer, ICI Devoe 4140, Tnemec Primer Series V10, Ameron 5105, International Interlac 260HS, Sherwin-Williams Kem-Bond HS B50NZ series, PPG SPEEDHIDE® Int/Ext Rust Inhibitive Steel Primer 6-208 series, or equal, applied to minimum dry-film thickness of two mils.

Finish Coat: Two coats of Carboline Carbocoat 139, two coats of ICI Devoe 4348, two coats of Tnemec Series 2H, two coats of Ameron 5401HS, two coats of International Interlac 820, two coats of Sherwin-Williams Industrial Enamel B54Z series, two coats of PPG MetalMax Int/Ext Gloss Alkyd 7-914 series, or equal. Apply to a minimum dry-film thickness of 1.5 mils per coat.

C. System No. 18--Organic Zinc Primer for Shop Coating and Field Touch-Up:

Type: Organic zinc primer having a minimum zinc content of 14 pounds per gallon.

Service Conditions: For use as a shop-applied primer or field touch-up primer over inorganic zinc prime coatings on exposed metal.

Surface Preparation: SSPC SP-10.

Coating: Coating shall be of the two- or three-component converted epoxy, epoxy phenolic, or urethane type. Products: Tnemec 90-97, International Interzinc 308, Ameron 68HS, ICI Devoe 313, Carboline 859, Sherwin-Williams Zinc-Clad III HS, PPG DURETHANE™ MCZ 97-679, or equal; applied to a minimum dry-film thickness of 3 mils. Organic zinc primer shall be manufactured by the prime coat manufacturer.

2.04 BURIED METAL COATING SYSTEMS

A. System No. 23--Buried Metal:

Type: Thixotropic, coal-tar pitch having a minimum volume solids of 68% and complying with MIL-C-18480A.

Service Conditions: Buried metal, such as flanges, nuts and bolts, fittings, structural steel especially subjected to corrosive conditions, such as acidic groundwater.

Surface Preparation: SSPC SP-10.

Prime Coat: Not required.

Finish Coat: Apply two coats of Carboline Bitumastic 50, 15 mils each; two or more coats of Tnemec 46-465, to a total thickness of 30 mils; or equal.

B. System No. 25--Buried Metal Piping and Tubing:

Type: Cold-applied coal-tar tape, hot-applied coal-tar tape, cold-applied wax tape, or polyethylene tape.

Service Conditions: Buried ferrous and nonferrous piping and tubing.

Coat with one of the following systems:

1. Wrap with cold-applied coal-tar tape conforming to AWWA C209. Minimum thickness of tape shall be 35 mils. Apply tape with manufacturer's prime coat. Tape shall be Tapecoat CT, Protecto-Wrap 200, or equal.
2. Wrap with cold-applied wax tape per Section 099752.
3. Wrap with polyethylene tape coating per Section 099757.

Use chloride-free primers with the above coatings when applying to stainless steel piping or tubing.

Coat field joints of buried piping that has a shop-applied coating with primer and tape conforming to AWWA C209. Use Type 1 tape of 35-mil thickness. Products: Protection Engineering Co. Protectowrap 200 GT, Tapecoat CT10/40W, Polyken 930-35, or equal.

Perform electrical inspection of shop and field coating in accordance with Section 5 of AWWA C209.

Install buried pipes with wrapped coatings by extending the wrapping to the first joint after entering a building, penetrating a slab, or 6 inches above finished grade. Wrap joints spirally with a minimum overlap of 50% of the tape width.

2.05 COATING SYSTEMS FOR FUSION EPOXY-COATED STEEL SURFACES

A. System No. 66--Fusion Epoxy-Coated Steel, Color Coding:

Type: Epoxy having a minimum volume solids content of 60%.

Application: Color coding of pipe or steel surfaces already coated with fusion bonded epoxy.

Surface Preparation: SSPC SP-1. Then roughen the epoxy surface with power tool cleaning per SP-3 or a light sandblast per SP-7.

Prime Coat: None.

Finish Coat: One coat of Carboline 890, Tnemec 104, International Interguard 760HS, Ameron 385, ICI Devoe Devran 224HS, Sherwin-Williams Macropoxy 646 B58-600 series, PPG PITT-GUARD® Direct-to-Rust Epoxy Mastic Coating 97-145 series, or equal. Apply to a minimum dry-film thickness of 5 mils.

2.06 ABRASIVES FOR SURFACE PREPARATION

- A. Abrasives used for preparation of ferrous (excluding stainless steel) surfaces shall be one of the following:
 - 1. 16 to 30 or 16 to 40 mesh silica sand or mineral grit.
 - 2. 20 to 40 mesh garnet.
 - 3. Crushed iron slag, 100% retained on No. 80 mesh.
 - 4. SAE Grade G-40 or G-50 iron or steel grit.
- B. In the above gradations, 100% of the material shall pass through the first stated sieve size and 100% shall be retained on the second stated sieve size.

2.07 ORGANIC ZINC PRIMER FOR FIELD TOUCH-UP AND SHOP COATING

Where shop-applied inorganic zinc primers cannot be used because of volatile organic compound (VOC) regulations, the organic zinc primer described in System No. 18 may be substituted for the specified inorganic zinc primers.

PART 3 - EXECUTION

3.01 WEATHER CONDITIONS

- A. Do not paint in the rain, wind, snow, mist, and fog or when steel or metal surface temperatures are less than 5°F above the dew point.
- B. Do not apply paint when the relative humidity is above 85%.
- C. Do not paint when temperature of metal to be painted is above 120°F.
- D. Do not apply alkyd, inorganic zinc, silicone aluminum, or silicone acrylic paints if air or surface temperature is below 40°F or expected to be below 40°F within 24 hours.
- E. Do not apply epoxy, acrylic latex, and polyurethane paints on an exterior or interior surface if air or surface temperature is below 60°F or expected to drop below 60°F in 24 hours.

3.02 SURFACE PREPARATION PROCEDURES

- A. Remove oil and grease from metal surfaces in accordance with SSPC SP-1. Use clean cloths and cleaning solvents and wipe dry with clean cloths. Do not leave a film or greasy residue on the cleaned surfaces before abrasive blasting.
- B. Remove weld spatter and weld slag from metal surfaces and grind smoothly rough welds, beads, peaked corners, and sharp edges including erection lugs in accordance with SSPC SP-2 and SSPC SP-3. Grind 0.020 inch (minimum) off the weld caps on pipe weld seams. Grind outside sharp corners, such as the outside edges of flanges, to a minimum radius of 1/4 inch.
- C. Do not abrasive blast or prepare more surface area in one day than can be coated in one day; prepare surfaces and apply coatings the same day. Remove sharp edges, burrs, and weld spatter.
- D. Do not abrasive blast epoxy- or enamel-coated pipe that has already been factory coated, except to repair scratched or damaged coatings.
- E. For carbon steel, do not touch the surface between the time of abrasive blasting and the time the coating is applied. Apply coatings within two hours of blasting or before any rust bloom forms.
- F. Surface preparation shall conform with the SSPC specifications as follows:

Solvent Cleaning	SP-1
Hand Tool Cleaning	SP-2
Power Tool Cleaning	SP-3
White Metal Blast Cleaning	SP-5
Commercial Blast Cleaning	SP-6
Brush-Off Blast Cleaning	SP-7
Pickling	SP-8
Near-White Blast Cleaning	SP-10
Power Tool Cleaning to Bare Metal	SP-11
Surface Preparation and Cleaning of Steel and Other Hard Materials by High- and Ultrahigh-Pressure Water Jetting Prior to Recoating	SP-12
Surface Preparation of Concrete	SP-13

- G. Wherever the words “solvent cleaning,” “hand tool cleaning,” “wire brushing,” or “blast cleaning” or similar words are used in these specifications or in paint manufacturer’s specifications, they shall be understood to refer to the applicable SSPC (Society for Protective Coatings), surface preparation specifications listed above.

- H. For carbon steel surfaces, after abrasive blast cleaning, the height of the surface profile shall be 2 to 3 mils. Verify the surface profile by measuring with an impresser tape acceptable to the Owner's Representative. Perform a minimum of one test per 100 square feet of surface area. Testing shall be witnessed by the Owner's Representative. The impresser tape used in the test shall be permanently marked with the date, time, and locations where the test was made. Test results shall be promptly presented to the Owner's Representative.
- I. Do not apply any part of a coating system before the Owner's Representative has reviewed the surface preparation. If coating has been applied without this review, if directed by the Owner's Representative, remove the applied coating by abrasive blasting and reapply the coat in accordance with this specification.

3.03 ABRASIVE BLAST CLEANING

- A. Use dry abrasive blast cleaning for metal surfaces. Do not use abrasives in automatic equipment that have become contaminated. When shop or field blast cleaning with handheld nozzles, do not recycle or reuse blast particles.
- B. After abrasive blast cleaning and prior to application of coating, dry clean surfaces to be coated by dusting, sweeping, and vacuuming to remove residue from blasting. Apply the specified primer or touch-up coating within the period of an eight-hour working day. Do not apply coating over damp or moist surfaces. Reclean prior to application of primer or touch-up coating any blast cleaned surface not coated within said eight-hour period.
- C. Keep the area of the work in a clean condition and do not permit blasting particles to accumulate and constitute a nuisance or hazard.
- D. During abrasive blast cleaning, prevent damage to adjacent coatings. Schedule blast cleaning and coating such that dust, dirt, blast particles, old coatings, rust, mill scale, etc., will not damage or fall upon wet or newly coated surfaces.

3.04 PROCEDURES FOR ITEMS HAVING SHOP-APPLIED PRIME COATS

- A. After application of primer to surfaces, allow coating to cure for a minimum of two hours before handling to minimize damage.
- B. When loading for shipment to the project site, use spacers and other protective devices to separate items to prevent damaging the shop-primed surfaces during transit and unloading. If wood spacers are used, remove wood splinters and particles from the shop-primed surfaces after separation. Use padded chains or ribbon binders to secure the loaded items and minimize damage to the shop-primed surfaces.
- C. Cover shop-primed items 100% with protective coverings or tarpaulins to prevent deposition of road salts, fuel residue, and other contaminants in transit.
- D. Handle shop-primed items with care during unloading, installation, and erection operations to minimize damage. Do not place or store shop-primed items on the ground

or on top of other work unless ground or work is covered with a protective covering or tarpaulin. Place shop-primed items above the ground upon platforms, skids, or other supports.

3.05 FIELD TOUCH-UP OF SHOP-APPLIED PRIME COATS

- A. Remove oil and grease surface contaminants on metal surfaces in accordance with SSPC SP-1. Use clean rags wetted with a degreasing solution, rinse with clean water, and wipe dry.
- B. Remove dust, dirt, salts, moisture, chalking primers, or other surface contaminants that will affect the adhesion or durability of the coating system. Use a high-pressure water blaster or scrub surfaces with a broom or brush wetted with a solution of trisodium phosphate, detergent, and water. Before applying intermediate or finish coats to inorganic zinc primers, remove any soluble zinc salts that have formed by means of scrubbing with a stiff bristle brush. Rinse scrubbed surfaces with clean water.
- C. Remove loose or peeling primer and other surface contaminants not easily removed by the previous cleaning methods in accordance with SSPC SP-7. Take care that remaining primers are not damaged by the blast cleaning operation. Remaining primers shall be firmly bonded to the steel surfaces with blast cleaned edges feathered.
- D. Remove rust, scaling, or primer damaged by welding or during shipment, storage, and erection in accordance with SSPC SP-10. Take care that remaining primers are not damaged by the blast cleaning operation. Areas smaller than 1 square inch may be prepared per SSPC SP-11. Remaining primers shall be firmly bonded to the steel surfaces with cleaned edges feathered.
- E. Use repair procedures on damaged primer that protects adjacent primer. Blast cleaning may require the use of lower air pressure, smaller nozzles, and abrasive particle sizes, short blast nozzle distance from surface, shielding, and/or masking.
- F. After abrasive blast cleaning of damaged and defective areas, remove dust, blast particles, and other debris by dusting, sweeping, and vacuuming; then apply the specified touch-up coating.
- G. Surfaces that are shop primed with inorganic zinc primers shall receive a field touch-up of organic zinc primer per System No. 18 to cover scratches or abraded areas.
- H. Other surfaces that are shop primed shall receive a field touch-up of the same primer used in the original prime coat.

3.06 PAINTING SYSTEMS

- A. All materials of a specified painting system, including primer, intermediate, and finish coats, shall be produced by the same manufacturer. Thinners, cleaners, driers, and other additives shall be as recommended by the paint manufacturer for the particular coating system.

- B. Deliver paints to the jobsite in the original, unopened containers.

3.07 PAINT STORAGE AND MIXING

- A. Store and mix materials only in areas designated for that purpose by the Owner's Representative. The area shall be well-ventilated, with precautionary measures taken to prevent fire hazards. Post "No Smoking" signs. Storage and mixing areas shall be clean and free of rags, waste, and scrapings. Tightly close containers after each use. Store paint at an ambient temperature from 50°F to 100°F.
- B. Prepare multiple-component coatings using all of the contents of the container for each component as packaged by the paint manufacturer. Do not use partial batches. Do not use multiple-component coatings that have been mixed beyond their pot life. Provide small quantity kits for touch-up painting and for painting other small areas. Mix only the components specified and furnished by the paint manufacturer. Do not intermix additional components for reasons of color or otherwise, even within the same generic type of coating.

3.08 PROCEDURES FOR THE APPLICATION OF COATINGS

- A. Conform to the requirements of SSPC PA-1. Follow the recommendations of the coating manufacturer including the selection of spray equipment, brushes, rollers, cleaners, thinners, mixing, drying time, temperature and humidity of application, and safety precautions.
- B. Stir, strain, and keep coating materials at a uniform consistency during application. Power mix components. For multiple component materials, premix each component before combining. Apply each coating evenly, free of brush marks, sags, runs, and other evidence of poor workmanship. Use a different shade or tint on succeeding coating applications to indicate coverage where possible. Finished surfaces shall be free from defects or blemishes.
- C. Do not use thinners unless recommended by the coating manufacturer. If thinning is allowed, do not exceed the maximum allowable amount of thinner per gallon of coating material. Stir coating materials at all times when adding thinner. Do not flood the coating material surface with thinner prior to mixing. Do not reduce coating materials more than is absolutely necessary to obtain the proper application characteristics and to obtain the specified dry-film thicknesses.
- D. Remove dust, blast particles, and other debris from blast cleaned surfaces by dusting, sweeping, and vacuuming. Allow ventilator fans to clean airborne dust to provide good visibility of working area prior to coating applications. Remove dust from coated surfaces by dusting, sweeping, and vacuuming prior to applying succeeding coats.
- E. Apply coating systems to the specified minimum dry-film thicknesses as determined per SSPC PA-2.

- F. Apply primer immediately after blast cleaning and before any surface rusting occurs, or any dust, dirt, or any foreign matter has accumulated. Reclean surfaces by blast cleaning that have surface colored or become moist prior to coating application.
- G. Apply a brush coat of primer on welds, sharp edges, nuts, bolts, and irregular surfaces prior to the application of the primer and finish coat. Apply the brush coat prior to and in conjunction with the spray coat application. Apply the spray coat over the brush coat.
- H. Before applying subsequent coats, allow the primer and intermediate coats to dry for the minimum curing time recommended by the manufacturer. In no case shall the time between coats exceed the manufacturer's recommendation.
- I. Each coat shall cover the surface of the preceding coat completely, and there shall be a visually perceptible difference in applied shade or tint of colors.
- J. Applied coating systems shall be cured at 75°F or higher for 48 hours. If temperature is lower than 75°F, curing time shall be in accordance with printed recommendations of the manufacturer, unless otherwise allowed by the Owner's Representative.
- K. Assembled parts shall be disassembled sufficiently before painting or coating to ensure complete coverage by the required coating.

3.09 SURFACES NOT TO BE COATED

Do not paint the following surfaces unless otherwise noted in the drawings or in other specification sections. Protect during the painting of adjacent areas:

- A. Concrete walkways.
- B. Mortar-coated pipe and fittings.
- C. Stainless steel.
- D. Metal letters.
- E. Glass.
- F. Roofings.
- G. Fencing.
- H. Copper tubing, red brass piping, and PVC piping except where such piping occurs in rooms where the walls are painted, or required for color coding.
- I. Electrical fixtures except for factory coatings.
- J. Nameplates.
- K. Grease fittings.

- L. Brass and copper, submerged.
- M. Buried pipe, unless specifically required in the piping specifications.
- N. Fiberglass items, unless specifically required in the FRP specifications.
- O. Aluminum handrail, stairs, and grating.
- P. Insulated pipe.

3.10 PROTECTION OF SURFACES NOT TO BE PAINTED

Remove, mask, or otherwise protect hardware, lighting fixtures, switch plates, aluminum surfaces, machined surfaces, couplings, shafts, bearings, nameplates on machinery, and other surfaces not intended to be painted. Provide drop cloths to prevent paint materials from falling on or marring adjacent surfaces. Protect working parts of mechanical and electrical equipment from damage during surface preparation and painting process. Mask openings in motors to prevent paint and other materials from entering the motors.

3.11 DRY-FILM THICKNESS TESTING

- A. Measure coating thickness specified for carbon steel surfaces with a magnetic-type dry-film thickness gauge in accordance with SSPC PA-2. Provide certification that the gauge has been calibrated by a certified laboratory within the past six months. Provide dry-film thickness gauge as manufactured by Mikrotest or Elcometer.
- B. Test the finish coat of metal surfaces (except zinc primer and galvanizing) for holidays and discontinuities with an electrical holiday detector, low-voltage, wet-sponge type. Provide measuring equipment. Provide certification that the gauge has been calibrated by a certified laboratory within the past six months. Provide detector as manufactured by Tinker and Razor or K-D Bird Dog.
- C. Check each coat for the correct dry-film thickness. Do not measure within eight hours after application of the coating.
- D. For metal surfaces, make five separate spot measurements (average of three readings) spaced evenly over each 50 square feet of area (or fraction thereof) to be measured. Make three readings for each spot measurement of either the substrate or the paint. Move the probe or detector a distance of 1 to 3 inches for each new gauge reading. Discard any unusually high or low reading that cannot be repeated consistently. Take the average (mean) of the three readings as the spot measurement. The average of five spot measurements for each such 50-square-foot area shall not be less than the specified thickness. No single spot measurement in any 50-square-foot area shall be less than 80%, nor more than 120%, of the specified thickness. One of three readings which are averaged to produce each spot measurement may underrun by a greater amount as defined by SSPC PA-2.
- E. Perform tests in the presence of the Owner's Representative.

3.12 REPAIR OF IMPROPERLY COATED SURFACES

If the item has an improper finish color or insufficient film thickness, clean and topcoat the surface with the specified paint material to obtain the specified color and coverage. Sandblast or power-sand visible areas of chipped, peeled, or abraded paint, feathering the edges. Then prime and finish coat in accordance with the specifications. Work shall be free of runs, bridges, shiners, laps, or other imperfections.

3.13 CLEANING

- A. During the progress of the work, remove discarded materials, rubbish, cans, and rags at the end of each day's work.
- B. Thoroughly clean brushes and other application equipment at the end of each period of use and when changing to another paint or color.
- C. Upon completion of painting work, remove masking tape, tarps, and other protective materials, using care not to damage finished surfaces.

END OF SECTION

SECTION 099752 COLD-APPLIED WAX TAPE COATING

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and application of a three-part, cold-applied wax tape coating system for buried pipe flanges per NACE RP0375-2006, Section 4 except as modified herein.

1.02 RELATED WORK SPECIFIED ELSEWHERE

Polyethylene Sheet Encasement (AWWA C105): 099754.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit manufacturer's catalog data sheets and application instructions.

PART 2 - MATERIALS

2.01 PRIMER

- A. Primer shall be a blend of petrolatums, plasticizers, and corrosion inhibitors having a paste-like consistency. The primer shall comply with NACE RP0375-2006 and shall have the following properties:
 - 1. Pour Point: 100°F to 110°F.
 - 2. Flash Point: 350°F.
 - 3. Coverage: 1 gallon per 100 square feet.
- B. Primer shall be Trenton Wax Tape Primer, Denso Paste Primer, or equal.

2.02 WAX TAPE

- A. Wax tape shall consist of a synthetic-fiber felt, saturated with a blend of microcrystalline wax, petrolatums, plasticizers, and corrosion inhibitors, forming a tape coating that is easily formable over irregular surfaces. The tape shall comply with NACE RP0375-2006 and shall have the following properties:
 - 1. Saturant Pour Point: 115°F to 120°F.

2. Thickness: 50 to 70 mils.
 3. Tape Width: 6 inches.
- B. Wax tapes used for pipe soil-to-air transitions shall be UV light stable so as not to degrade in the presence of sunlight.
- C. Wax tape shall be Trenton No. 1 Wax Tape, Denso "Densyl Tape," or equal.

2.03 PLASTIC WRAPPER

- A. Wrapper shall be a polyvinylidene chloride plastic with three 50-gauge plies wound together as a single sheet. The wrapper shall have the following properties:
1. Color: Clear.
 2. Thickness: 1.5 mils.
 3. Tape Width: 6 inches.
- B. Plastic wrapper shall be Trenton Poly-Ply, Denso Tape PVC Self-Adhesive, or equal.

2.04 POLYETHYLENE SHEET COATING

See Section 099754.

PART 3 - EXECUTION

3.01 WAX TAPE COATING APPLICATION

- A. Surfaces shall be clean and free of dirt, grease, water, and other foreign material prior to the application of the primer and wax tape.
- B. Apply primer by hand or brush to fitting surfaces. Work the primer into crevices and completely cover exposed metal surfaces.
- C. Apply the wax tape immediately after the primer application. Work the tape into the crevices around fittings. Apply the wax tape by pressing and molding the tape into conformity with the surface so that it does not bridge over irregular surfaces configurations. Begin wrapping approximately 3 inches behind the area to be wrapped. If starting at a straight edge, wrap the tape spirally around the pipe while touching the end edge before starting the angle to begin the spiral. If the previous roll is headed in a downward direction, tuck the next roll under the previous roll. Stretch each roll tight as wrapping continues to avoid air bubbles.
- D. Wrap the wax tape spirally around the pipe and across the fitting. Use a minimum overlap of 50% of the tape width. Apply tape to flanges, mechanical and restrained joint

bolts, nuts and glands, and grooved-end couplings to 6 inches beyond each side of the item.

- E. Work the tape into the crevices and contours of irregularly shaped surfaces and smooth out so that there is a continuous protective layer with no voids or spaces under the tape.
- F. After application, seal the overlap seams of the tape by hand by tapering and pressing the seam, attempting to create a continuous surface. There shall be no air pockets underneath the tape. The tape shall have direct intimate contact with the pipe surface.
- G. On vertical sections of the piping, such as at pipe-to-soil transitions, wrap the pipe starting from the bottom and proceeding upward so that downward flowing water and backfill do not catch in a seam.
- H. Overwrap the completed wax tape installation with the plastic wrapping material. Wrap spirally around the pipe and across the fitting. Use a minimum overlap of 55% of the tape width and apply two layers or applications of overwrap. Secure plastic wrapper to pipe with adhesive tape.

3.02 APPLICATION OF POLYETHYLENE SHEET COATING TO BURIED PIPING

Wrap completed wax tape coating system with polyethylene film per Section 099754 and secure around the adjacent pipe circumference with adhesive tape.

3.03 HANDLING AND INSTALLING WAX-TAPE COATED PIPE

- A. Handle pipe in a manner to minimize damage to the coating. Equipment used for the handling of coated pipe shall be designed and constructed to avoid damaging the protective coating system. Inspect supported areas of the pipe prior to installation. Repair damaged areas before installation.
- B. The pipeline trench shall be free of rocks, foreign matter, and projections that could damage the coating system.

END OF SECTION

SECTION 099754 POLYETHYLENE SHEET ENCASUREMENT (AWWA C105)

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and installation of a polyethylene sheet encasement for buried steel flanges.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Cold-Applied Wax Tape Coating: 099752.
- B. Trenching, Backfilling, and Compacting: 312316.
- C. General Piping Requirements: 400500.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit manufacturer's catalog literature and product data sheets describing the physical, chemical, and electrical properties of the encasement material.

PART 2 - MATERIALS

2.01 POLYETHYLENE WRAP

- A. The encasement shall consist of low-density polyethylene wrap of at least 8-mil thickness conforming to AWWA C105. Color: Blue.
- B. Polyethylene encasement for ductile-iron pipe shall be supplied as a flat tube meeting the dimensions of Table 1 in AWWA C105 and shall be supplied by the ductile-iron pipe manufacturer.

2.02 PLASTIC ADHESIVE TAPE

- A. Tape shall consist of polyolefin backing and adhesive which bonds to common pipeline coatings including polyethylene.
- B. Minimum Width: 2 inches.
- C. Products: Canusa Wrapid Tape; Tapecoat 35; Polyken 934; AA Thread Seal Tape, Inc.; or equal.

PART 3 - EXECUTION

3.01 APPLICATION OF MOLDABLE MASTIC FILLER TO IRREGULAR ADJACENT SURFACES

When the adjacent joints are bell-and-spigot or mechanical joints and any associated welding specifications do not require an external full fillet weld, apply a moldable mastic filler (per Section 400500) at the step-down area prior to the application of the sheet encasement and tape.

3.02 APPLYING SHEET COATING TO BURIED PIPING AND FITTINGS

- A. Apply wrapping per AWWA C105 as modified herein.
- B. Apply a double wrapping.
- C. Install the polyethylene to completely encase the pipe and fittings to provide a watertight corrosion barrier. Continuously secure overlaps and ends of sheet and tube with polyethylene tape. Make circumferential seams with two complete wraps, with no exposed edges. Tape longitudinal seams and longitudinal overlaps, extending tape beyond and beneath circumferential seams.
- D. Wrap bell-spigot interfaces, restrained joint components, and other irregular surfaces with wax tape or moldable sealant prior to placing polyethylene encasement.
- E. Minimize voids beneath polyethylene. Place circumferential or spiral wraps of polyethylene tape at 2-foot intervals along the barrel of the pipe to minimize the space between the pipe and the polyethylene.
- F. Overlap adjoining polyethylene tube coatings a minimum of 1 foot and wrap prior to placing concrete anchors, collars, supports, or thrust blocks. Hand wrap the polyethylene sheet, apply two complete wraps with no exposed edges to provide a watertight corrosion barrier, and secure in place with 2-inch-wide plastic adhesive tape.

3.03 APPLYING SHEET COATING TO BURIED VALVES

- A. Wrap flanges and other irregular surfaces with wax tape or moldable sealant. Press tightly into place leaving no voids underneath and a smooth surface under coating for polyethylene sheet.
- B. Wrap with a flat sheet of polyethylene. Place the sheet under the valve and the flanges or joints with the connecting pipe and fold in half. Extend the sheet to the valve stem and secure the sheet in place with 2-inch-wide plastic adhesive tape. Apply a second layer and secure with tape. Make two complete wraps, with no exposed edges, to provide a watertight corrosion barrier. Secure the sheets with tape around the valve stem below the operating nut and around the barrel of the connecting pipe to prevent the entrance of water and soil. Place concrete anchor and support blocks after the wrap has been installed.

3.04 APPLYING SHEET COATING TO BURIED FLEXIBLE PIPE COUPLINGS

- A. Wrap irregular surfaces with wax tape or moldable sealant. Press tightly into place leaving no voids underneath and a smooth surface under coating for polyethylene sheet.
- B. Apply two layers or wraps around the coupling. Overlap the adjoining pipe or fitting a minimum of 1 foot and secure in place with tape. Provide sufficient slack in polyethylene to allow backfill to be placed around fitting without tearing polyethylene. Apply tape around the entire circumference of the overlapped section on the adjoining pipe or fitting in two complete wraps, with no exposed edges, to provide a watertight corrosion barrier.

3.05 REPAIR OF POLYETHYLENE MATERIAL

Repair polyethylene material that is damaged during installation. Use polyethylene sheet, place over damaged or torn area, and secure in place with 2-inch-wide plastic adhesive tape.

3.06 APPLYING SHEET COATING TO EXISTING BURIED PIPING

When connecting polyethylene-encased pipe or fittings to existing pipe, expose existing pipe, thoroughly clean the surface, and securely tape the end of the polyethylene to the existing as specified above. When the existing pipe is polyethylene encased, wrap new polyethylene encasement over the existing, with overlap of at least 2 feet. Tape securely as specified above.

3.07 BACKFILL FOR POLYETHYLENE-WRAPPED PIPE, VALVES, AND FITTINGS

Place sand backfill within 1 foot of the pipe, valves, and fittings wrapped with polyethylene encasement per Section 312316.

3.08 INSTALLATION AND REPAIR OF POLYETHYLENE AT SERVICE TAPS

- A. Wrap two or three layers of polyethylene adhesive tape completely around the pipe to cover the area where the tapping machine and chain will be mounted.
- B. Mount the tapping machine on the pipe area covered by the polyethylene tape. Then make the tap and install the corporation stop directly through the tape and polyethylene.
- C. After making the direct service connection, inspect the entire circumferential area for damage and make repairs.
- D. To minimize the possibility of dissimilar metal corrosion at service connections, wrap the corporation stop a minimum clear distance of 3 feet of copper service pipes with polyethylene or dielectric tape.

END OF SECTION

SECTION 099757 POLYETHYLENE TAPE PIPE COATING (AWWA C214)

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section describes materials, installation, and testing of a polyethylene pipe coating complying with AWWA C209 and C214 for buried pipe sizes 4 inches and larger and pipe installed in casing.
- B. Supervisors of tape coating operations shall have at least two years' continuous recent experience in the application of tape and cement-mortar coating systems for steel pipe. The manufacturer of the tape coatings shall demonstrate a minimum of five years' successful application of this product on large diameter steel water pipelines.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Painting and Coating: 099000.
- B. Trenching, Backfilling, and Compacting: 312316.
- C. General Piping Requirements: 400500.
- D. Fabricated Steel Specials: 402050.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit certificates of tests of physical and performance characteristics of each batch of primer and tape wraps.
- C. Submit method approved by tape manufacturer to minimize voids at weld seams. Submit method approved by tape manufacturer to minimize disbondment of free ends of tape during shipping and storage.
- D. Submit application procedure approved by tape manufacturer, including the pattern of distribution and method of application of the weld seam tape system.
- E. Submit affidavit of compliance with the referenced standards (e.g., AWWA C214, etc.).
- F. Submit schedule for application of tape coating. Schedule coating to be accomplished during normal working hours. Provide minimum two weeks' notice to the Owner's Representative prior to commencing or rescheduling work.

- G. Submit the names and qualifications of the workers and supervisors to be employed on the coating operation a minimum of 14 days prior to the start of taping operations.

1.04 INSPECTION

The entire procedure of applying the protective coating material as herein described will be inspected by the Owner's Representative from surface preparation to completion of coating. Such inspection shall not relieve the Contractor of responsibility to furnish material and perform work in accordance with this specification. All coating work shall be done in the presence of the Owner's Representative. Coating work not done in the Owner's Representative's presence will be subject to rejection.

PART 2 - MATERIALS

2.01 POLYETHYLENE TAPE COATING

Polyethylene tape coating shall be in accordance with AWWA C214 as modified herein. The entire taping operation shall be developed by the pipe manufacturer with the assistance from and approval of the tape manufacturer. Inner layer and outer layer polyethylene tape shall exhibit properties meeting the requirements of AWWA C214, Tables 2 and 3, respectively. The total coating system shall be the Polyken YGIII System, Alta 100.20 Innerlayer/205.30 Outer Middle Layer/206.30 Outerlayer System, or equal. The application shall consist of one inner layer and two outer layers with the inner layer tape of thickness 20 mils minimum and the outer layer tape of thickness 30 mils minimum each. The total coating thickness shall not be less than 80 mils measured in the unapplied state and shall exhibit the properties meeting the requirements of AWWA C214, Table 4. Tape width shall not exceed 12 inches regardless of pipe diameter.

2.02 TAPE MATERIALS

Tape materials shall conform to the following criteria:

A. Inner Layer Tape:

Backing	98% blend of high- and low-density polyethylene with the remaining portion a blend of colorants and stabilizers.
Adhesive	100% butyl-based elastomers with resins for adhesion, cathodic disbonding, and long-term in-ground performance.
Tensile strength at break	30 lb/in. per ASTM D1000
Elongation at break	200% per ASTM D1000
Adhesion to steel	100 oz/in. width per ASTM D1000
Adhesion to primed steel	300 oz/in. width per ASTM D1000

Adhesion to backing	40 oz/in. width per ASTM D1000
Dielectric strength	Greater than or equal to 20 kV per ASTM D149
Insulation resistance	1 x 10 ¹² ohms per ASTM D1000
Water vapor transmission rate	<0.2 gm/100 sq. in./24 hours at 70°F per ASTM E96, Method B
Cathodic disbonding at 20°C (68°F) for 30 days	0.2 sq. in. per ASTM G8
Shear resistance at 66°C (150°F) for four weeks	0.2 mm/day per ASTM D3654, Procedure A
Hydrolytic stability for 200 hours at 98°C H ₂ O, adhesion > 150 oz/in.	
Thermal stability for 2,000 hours at 100°C air, adhesion > 150 oz/in.	

B. Outer Layer Tape:

Backing	96% blend of high- and low-density polyethylene with the remaining portion a blend of colorants and stabilizers.
Adhesive	100% butyl-based elastomer with resins for adhesion, cathodic disbonding, and long-term in-ground performance.
Tensile strength	45 lb/in. width (inner wrap) per ASTM D1000
Tensile strength	55 lb/in. width (outer wrap) per ASTM D1000
Elongation	200% per ASTM D1000
Adhesion to steel	80 oz/in. width per ASTM D1000
Adhesion to backing	40 oz/in. width (inner wrap) per ASTM D1000
Adhesion to backing	60 oz/in. width (outer wrap) per ASTM D1000
Water vapor transmission	<0.2 gm/100 sq. in./24 hours at 70°F per ASTM E96, Method B
Dielectric strength	Greater than or equal to 25 kV per ASTM D149
Second mechanical outer layer shall have UV protection.	

PART 3 - EXECUTION

3.01 PIPE PREPARATION

- A. Perform the entire coating operation as a one-station operation where the pipe is supported at the ends in a manner that will permit the application of the specified coatings. No additional handling following the initial setup of the pipe section, from

application of primer, tape coating, and cement-mortar coating, will be allowed. No application involving rollers to support the pipe during the primer application, plastic tape application will be permitted.

- B. The pipe shall be of sufficient stiffness or have sufficient internal bracing to keep pipe cylindrical during taping. Maintain the axis of pipe during application without rocking, pitching, or yawing.
- C. Perform the coating operation in an environmentally controlled area such that it is protected from direct sunlight, wind, rain, snow, mist, fog, dust, and hail.
- D. Prepare the exterior weld bead as follows:
 - 1. Where the exterior weld bead has a rough or irregular surface or narrow profile or is in excess of 1/16 inch in height, remove the exterior weld bead along the entire exterior surface of the pipe. The exterior weld bead shall be flush with the exterior surface of the pipe with a tolerance of +1/64 inch. Remove the weld bead such that no gouging or nicking of the plate surface will occur. This operation is to result in a smooth exterior surface with no ridges or valleys that may allow bridging or disbonding of the tape from the surface of the pipe.
 - 2. Where the exterior weld bead has a smooth surface and broad profile and is not in excess of 1/16 inch in height, remove the exterior weld bead within 18 inches of the ends of the pipe. The resultant bead shall be flush with the exterior surface of the pipe with a tolerance of +1/64 inch. Remove the weld bead such that no gouging or nicking of the plate surface will occur. Apply primer as specified hereinafter, then prior to application of the inner wrap, apply a thin 6-inch-wide weld seam tape by automatic means over the weld seam. Construct the weld stripping tape of a low-density plastic backing not more than 5 mils thick and soft adhesive not more than 20 mils thick (Polyken 932-25 or equal). Immediately upon application, mechanically press the tape into place with a pressure roller to eliminate voids, wrinkles, or bubbles. Tape width shall extend 2 inches beyond the weld bead in each direction and shall be centered on the weld bead.
- E. Remove welding slag or scale by wire brushing, hammering, or other means prior to priming. Completely remove corrosion and foreign substances from the exterior of the pipe by blasting. The blast profile depth shall not exceed 3 mils. Wipe and broom the pipe surface after sandblasting and transport to coating station to remove grit, dust, and foreign substances.
- F. Where pipe is shop cement-mortar lined, apply the exterior coating after the pipe is lined with mortar.
- G. Surface temperature of pipe shall be uniform, between 45°F and 100°F, and greater than 5°F above the dew point.

3.02 APPLICATION OF PRIMER

- A. Uniformly heat primer to maintain at 70°F ±10°F (or slightly above pipe surface temperature when greater than 70°F), throughout the application procedure. Use continuous recording chart-type devices to monitor primer temperature. Thoroughly mix the primer and agitate continuously during application to prevent settling of solids.
- B. Wipe the pipe surface free of dust and grit. Apply the primer coating immediately after surface preparation. Apply primer by automatic means with the spray shielded from drafts to result in a uniform thin primer over the entire pipe surface. Primer coverage shall be in accordance with manufacturer's recommendations but shall not exceed 600 square feet per gallon.
- C. Remove any imperfections from priming such as foreign material, drips, and runs. Reprime at location of such imperfections. Primer shall be sufficiently tacky prior to tape application to result in a void-free bond to steel.
- D. Thoroughly mix and heat primer, if necessary, to apply at optimum temperature.

3.03 TAPE APPLICATION

- A. Apply pipeline tape at a uniform roll body temperature above 50°F and at an ambient temperature above 30°F. Store up to the time of application under such conditions and for a sufficient period of time that the roll body temperature shall be within the temperature range recommended by the tape system manufacturer at the time of application.
- B. Prime and hand press the free ends of outer wrap of each pipe section into place. Immediately upon application, mechanically press the inner layer tape into place by means of coating equipment with constant tension tape dispensing machines to result in a void-free coating, bonded to the primed steel surface and weld seam tape system. Spirally apply the inner layer tape with a 1-inch-minimum overlap, incorporating a pressure roller wider than the tape width to provide maximum contact at the step-down of the overlap and to eliminate air entrapment between the tape and the pipe. The pressure roller shall be hard rubber applying 1,000 to 1,200 psi against the pipe exactly at the tape-to-pipe contact.
- C. Operators shall make adjustments, including spindle-brake tension adjustments, to provide a continuous, uniform, tight coating. Apply tape at a uniform rate throughout the entire length of pipe at a tape speed not in excess of 3 fps. A smooth, taut coating accomplished with a tape-width drawdown not in excess of 2% shall be considered adequate. Keep wrinkles, puckers, and voids to a minimum and maintain the specified lap.
- D. Simultaneously with tape application, apply the specified outer wraps spirally. Make necessary adjustments to achieve a uniform, tightly applied outer wrap, essentially free of wrinkles, puckers, and voids, with a 1-inch-minimum lap width. Continuously record

tape temperature near the point of application, and provide automatic means to adjust tape temperature during application.

- E. The entire coating operation shall be performed by experienced workers skilled in the application of prefabricated cold-applied tape wrap coating under qualified supervisors.
- F. Coat specials with half-lapped 50-mil hot-applied coal-tar tape in accordance with AWWA C203. Total thickness shall be 100 mils in the unapplied state. Coat weld seams as specified for normal straight pipe.
- G. Alternatively, coat specials with half-lapped 50-mil cold-applied tape in accordance with AWWA C209. Coat weld seams as specified for normal straight pipe.
- H. When solvent is used to remove coating or primer prior to welding, none of it shall be permitted to contact the exposed tape adhesive. Precautions shall be taken to protect the exposed tape, and only solvents approved by the tape manufacturer shall be used.

3.04 CLEARANCE FOR FIELD COATING OF JOINTS

Hold back the tape coating a sufficient length to provide clearance for coating joints in the field.

3.05 COATING OF WELDED FIELD JOINTS

When the joints are bell-and-spigot (weld bell) for field welding and the drawings or specifications do not require a full fillet weld or when the welding is accomplished from the inside only, apply a moldable filler material (per Section 400500) to fill all voids at the step down. Place the filler material firmly against the primed steel surfaces to eliminate voids under the tape and provide a smooth transition surface between bell and spigot.

3.06 MECHANICAL COUPLINGS AND PIPE ENDS

Where rubber-gasketed joints or mechanical couplings are used, apply a moldable filler material as specified for field-welded joints to fill all surface irregularities.

END OF SECTION

SECTION 099761 FUSION-BONDED EPOXY LININGS AND COATINGS

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials, application, and testing of one-part, fusion-bonded, heat-cured, thermosetting, 100% solids epoxy linings and coatings on steel, cast-iron, and ductile-iron equipment, such as valves, flexible pipe couplings, slide gates, and structural steel, and steel pipe.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Painting and Coating: 099000.
- B. Carbon Steel Pipe (16 Inches and Smaller): 402053.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit manufacturer's catalog literature and product data sheets, describing the physical and chemical properties of the epoxy coating. Describe application and curing procedure.
- C. Submit coating application test records for measuring coating thickness and holiday detection for each item or pipe section and fitting. Describe repair procedures used.

PART 2 - MATERIALS

2.01 PIPING AND EQUIPMENT SURFACES

- A. The Contractor shall require the equipment suppliers to provide equipment that is free of salts, oil, and grease to the coating applicator.
- B. The Contractor shall require pipe suppliers to provide bare pipe that is free of salts, oil, and grease to the coating applicator.

2.02 SHOP-APPLIED EPOXY LINING AND COATING

Lining and coating shall be a 100% solids, thermosetting, fusion-bonded, dry powder epoxy resin: Scotchkote 134 or 206N, Valspar "Pipeclad 1500 Red," or equal. Epoxy lining and coating shall meet or exceed the following requirements:

Hardness (minimum)	Barcol 17 (ASTM D2583) Rockwell 50 ("M" scale)
Abrasion resistance (maximum value)	1,000 cycles: 0.05 gram removed
	5,000 cycles: 0.115 gram removed
	ASTM D1044, Tabor CS 17 wheel, 1,000-gram weight
Adhesion (minimum)	3,000 psi (Elcometer)
Tensile strength	7,300 psi (ASTM D2370)
Penetration	0 mil (ASTM G17)
Adhesion overlap shear, 1/8-inch steel panel, 0.010 glue line	4,300 psi, ASTM D1002
Impact (minimum value)	100 inch-pounds (Gardner 5/8-inch diameter tup)

2.03 FIELD-APPLIED EPOXY COATING FOR PATCHING

Use a minimum 80% solids liquid epoxy resin, such as Scotchkote 306 or 323.

2.04 PAINTING AND COATING OF GROOVED-END AND FLEXIBLE PIPE COUPLINGS

Line and coat couplings the same as the pipe. Color shall match the color of the pipe fusion epoxy coating.

PART 3 - EXECUTION

3.01 SHOP APPLICATION OF FUSION-BONDED EPOXY LINING AND COATING--GENERAL

- A. Grind surface irregularities, welds, and weld spatter smooth before applying the epoxy. The allowable grind area shall not exceed 0.25 square foot per location, and the maximum total grind area shall not exceed 1 square foot per item or piece of equipment. Do not use any item, pipe, or piece of equipment in which these requirements cannot be met.
- B. Remove surface imperfections, such as slivers, scales, burrs, weld spatter, and gouges. Grind outside sharp corners, such as the outside edges of flanges, to a minimum radius of 1/4 inch.
- C. Uniformly preheat the pipe, item, or piece of equipment prior to blast cleaning to remove moisture from the surface. The preheat shall be sufficient to ensure that the surface temperature is at least 5°F above the dew point temperature during blast cleaning and inspection.

- D. Sandblast surfaces per SSPC SP-5. Protect beveled pipe ends from the abrasive blast cleaning.
- E. After cleaning and surface preparation, test the surface for residual chloride concentration. If the residual chloride concentration exceeds $5 \mu\text{g}/\text{cm}^2$, then apply a phosphoric acid wash to the surface after sandblasting. The average temperature, measured at three different locations, shall be 80°F to 130°F during the acid wash procedure. The acid wash shall be a 5% by weight phosphoric acid solution. The duration in which the acid is in contact with the surface shall be determined by using the average temperature as tabulated below:

Surface Temperature (°F)	Contact Time (seconds)
80	52
85	45
90	36
95	33
100	28
105	24
110	21
130	10

After the acid wash has been completed, remove the acid with demineralized water having a maximum conductivity of 5 micromhos/cm at a minimum nozzle pressure of 2,500 psi.

- F. Apply lining and coating by the electrostatic spray or fluidized bed process. Minimum thickness of lining or coating shall be 15 mils. Heat and cure per the epoxy manufacturer's recommendations. The heat source shall not leave a residue or contaminant on the metal surface. Do not allow oxidation of surfaces to occur prior to coating. Do not permit surfaces to flash rust before coating.

3.02 SHOP APPLICATION OF FUSION-BONDED EPOXY LINING AND COATING TO PIPE--ADDITIONAL REQUIREMENTS

- A. Apply lining and coating per AWWA C213 except as modified herein.
- B. Grind 0.020 inch (minimum) off the weld caps on the pipe weld seams before beginning the surface preparation and heating of the pipe.

3.03 QUALITY OF LINING AND COATING APPLICATIONS

The cured lining or coating shall be smooth and glossy, with no graininess or roughness. The lining or coating shall have no blisters, cracks, bubbles, underfilm voids, mechanical damage, discontinuities, or holidays.

3.04 FACTORY TESTING OF COATING--GENERAL

- A. Test linings and coatings with a low-voltage wet sponge holiday detector. Test pipe linings and coatings per AWWA C213, Section 5.3.3. If the number of holidays or pinholes is fewer than one per 20 square feet of coating surface, repair the holidays and pinholes by applying the coating manufacturer's recommended patching compound to each holiday or pinhole and retest. If the number of pinholes and holidays exceeds one per 20 square feet of coating surface, remove the entire lining or coating and recoat the item or pipe.
- B. Measure the coating thickness at three locations on each item or piece of equipment or pipe section using a coating thickness gauge calibrated at least once per eight-hour shift. Record each measured thickness value. Where individual measured thickness values are less than the specified minimum thickness, measure the coating thickness at three additional points around the defective area. The average of these measurements shall exceed the specified minimum thickness value, and no individual thickness value shall be more than 2 mils below or 3 mils above the specified minimum value. If a section of the pipe, item, or piece of equipment does not meet these criteria, remove the entire lining or coating and recoat the entire item or piece of equipment.

3.05 FACTORY INSPECTION OF LINING AND COATING OF PIPE--ADDITIONAL REQUIREMENTS

Check for coating defects on the weld seam centerlines. There shall be no porous blisters, craters, or pimples lying along the peak of the weld crown.

3.06 SHIPPING, STORAGE, AND HANDLING

- A. When loading piping, fittings, couplings, or other coated items for shipment to the project site, use spacers and other protective devices to separate pipes or other coated items to prevent damaging the coated surfaces during transit and unloading. If wood spacers are used, remove wood splinters and particles from the coated surfaces after separation. Use padded chains or ribbon binders to secure the loaded pipe or other coated items and minimize damage.
- B. Do not load or unload pipe, fittings, couplings, or other coated items by inserting forklift tines or lifting chains inside the pipe or item. Use nonmetallic slings, padded chains, or padded forklift tines to lift pipe or other coated items.
- C. Cover piping or other coated items 100% with protective coverings or tarpaulins to prevent deposition of road salts, fuel residue, and other contaminants in transit.

- D. Provide stulls, braces, and supports for piping during shipping and storage such that out-of-roundness or deflection does not exceed 0.5% of the pipe diameter.
- E. Handle piping and other coated items with care during the unloading, installation, and erection operations to minimize damage. Do not place or store pipe or other coated items on the ground or on top of other work unless ground or work is covered with a protective covering or tarpaulin. Place pipe or other coated items above the ground upon platforms, skids, or other supports.
- F. Store piping or other coated items at the site on pallets to prevent direct contact with ground or floor. Cover pipe or coated items during storage with protective coverings or tarpaulins to prevent deposition of rainwater, salt air, dirt, dust, and other contaminants.
- G. Do not allow piping or other coated items to contact metal, concrete, or other surfaces during storage, handling, or installation and erection at the site that could damage or scratch the coating.

3.07 FIELD REPAIRS

Patch scratches and damaged areas incurred while installing fusion-bonded epoxy coated items with a two-component, 80% solids (minimum), liquid epoxy resin. Wire brush or sandblast the damaged areas per SSPC SP-10. Lightly abrade or sandblast the coating or lining on the sides of the damaged area before applying the liquid epoxy coating. Apply an epoxy coating to defective linings and coatings to areas smaller than 20 square inches. Patched areas shall overlap the parent or base coating a minimum of 0.5 inch. If a defective area exceeds 20 square inches, remove the entire lining and coating and recoat the entire item or piece of equipment. Apply the liquid epoxy coating to a minimum dry-film thickness of 15 mils.

3.08 INTERNAL PIPE FIELD REPAIRS

The ID of the welded and installed carrier pipe in the casing shall have all damage from welding, handling, or installation repaired using automated field cleaning and coating equipment.

- A. Equipment Requirements
 - 1. Capable of cleaning, coating and inspecting internal field joints in new piping.
 - 2. After cleaning and coating of internal field joints capable of visual, high-voltage holiday and dry film thickness inspection.
 - 3. Robotic Equipment
 - a. Self contained communication capable of sending video to the operator and receive operator instructions.
 - b. Battery powered with backup.
- B. Clean the welds

1. Each weld area shall be cleaned and surface prepared as required by this specification section.
2. Remove debris with a vacuum head contoured to the ID of the pipe.
3. Inspect the cleaned area to assure it meets specification requirements and is ready to receive the coating.

C. Fusion-Bonded Epoxy Coater

1. Heat and apply the powder epoxy to internal field joints.
2. Inspect new coating using high-voltage holiday inspection and measure dry film thickness to assure compliance with specification requirements.
3. Record the results and provide to the owner.

END OF SECTION

SECTION 264213 CATHODIC PROTECTION AND JOINT BONDING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section includes materials, testing, and installation of test station and flange insulation kits.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Painting and Coating: 099000.
- B. Trenching, Backfilling, and Compacting: 312316

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals.
- B. Submit manufacturer's catalog data on test stations, reference cells and flange insulation kits.
- C. Submit initial test station readings.

PART 2 - MATERIALS

2.01 FLANGE INSULATION KITS AND POLYURETHANE SEALANT

- A. Flange insulation kits shall consist of insulating gasket, an insulating stud sleeve for each bolt, insulating washers for each bolt, and a steel washer between each insulating washer and the nut. The sleeves shall be one piece, integral with the insulating washer. Gaskets shall be full face. Provide double sleeve and washer sets for each bolt.
- B. Gasket material shall be phenolic, 1/8 inch thick. The flange insulating gasket shall be full diameter of the flange with a nitrile O-ring on each side of the gasket. Dielectric strength shall be not less than 500 volts per mil and a compressive strength of not less than 24,000 psi.
- C. Insulating flange bolt sleeves shall be high-density polyethylene or spiral-wrapped mylar. Dielectric strength shall be not less than 1,200 volts per mil.
- D. Insulating flange bolt washers shall be high-strength phenolic a minimum thickness of 1/8 inch. Dielectric strength shall be not less than 500 volts per mil and a compressive strength of not less than 25,000 psi.

- E. Steel flange bolt washers for placement over the insulating washers shall be a minimum thickness of 1/8 inch and be cadmium plated.
- F. Flange insulation kits shall be as manufactured by Central Plastics Company, Advance Product Systems, or equal.
- G. Polyurethane sealant shall be PRC 270 or equal.

2.02 TEST STATIONS

- A. Flush-Mounted Type: Test station shall consist of a glass-filled polycarbonate-urethane-coated body suitable for installation in asphalt. Design to withstand H-20 traffic loads. Station shall be watertight. Provide a five-lead terminal board. Provide locking lid. Terminal studs and nuts shall be nickel-plated brass. Test station shall be Cott Manufacturing Co. "Flush Fink" or equal.
- B. Provide a Holloway Type RS 0.01-ohm shunt in each test station. Shunts shall be as manufactured by Agra Engineering, M. C. Miller Company, or equal.
- C. Test station wiring shall be single conductor, stranded copper, with 600-volt insulation, sized as shown.
- D. Insulation color for the various wires shall be as follows:
 - 1. Pipeline Test: White.
 - 2. Reference Electrode: Yellow

2.03 REFERENCE ELECTRODE (CELL)

- A. Design copper-copper sulfate reference cells for direct burial. Reference electrodes shall be copper-copper sulfate (CSE) suitable for direct burial and designed to remain stable for at least 20 years. The reference cell shall be capable of maintaining a potential within 15 millivolts of a freshly made cell while draining 2 microamperes. Reference cells shall contain a barrier to inhibit migration of chloride ions from the soil into the reference cell. Reference cell lead wire shall be No. 14 AWG stranded copper, with yellow RHW insulation and shall be silver soldered to the copper core of the reference cell with the connection epoxy sealed by the manufacturer. Reference cells shall be Staperm Model CU-1-UGPC by GMC Corrosion, Stelth 2 Model SRE-007-CUY by Borin Manufacturing, or equal.

2.04 DIELECTRIC SEALANT

- A. Unbacked elastomeric tape 0.125-inch thick, "Moldable Sealant" by Tapecoat Co., "Tac-Tape" by Royston Laboratories, with manufacturer's primer.

2.05 JOINT BONDING WIRES

- A. Joint bonding wires shall be No. 2 AWG single-conductor, stranded copper, with 600-volt TW insulation.

PART 3 - EXECUTION

3.01 INSTALLING FLANGE INSULATION KITS

- A. Overdrill bolt holes by 1/8 inch to accommodate insulating sleeves of flange insulation kits if carbon steel (ASTM A307) or stainless steel (ASTM A193, Grades B8 or B8M) bolts or studs are used.
- B. Bolts or studs 1/8 inch smaller than the standard bolt or stud size per AWWA C207, Table 2, or AWWA C115, Table 2, may be used if high strength (ASTM A193, Grade B7) bolts or studs are used with AWWA Class B, D, or E steel flanges or AWWA C115 ductile-iron flanges. Overdrilling of the bolt holes is not required in such case. Do not use high strength bolts (e.g., ASTM A193, Grade B7) with cast gray iron flanges.
- C. Install flange insulation kits per NACE RP0286. Prevent moisture, soil, or other foreign matter from contacting any portion of the insulating joint prior to its being sealed. If moisture, soil, or other foreign matter contacts any portion of the insulating joint, disassemble the entire joint, clean with a solvent, and dry prior to reassembly. Follow the manufacturer's recommendations regarding the torquing pattern of the bolts and the amount of torque to be used when installing the flange insulation kit.

3.02 LINING AND COATING INSULATING FLANGES

- A. After testing, wrap buried insulating flanges, including bolts, nuts, and washers, and adjacent surfaces of the pipe or valve with wax tape coating per Section 099752.
- B. Line the interior of the piping per Section 099000, System No. 66 for a distance of two pipe diameters in each direction away from the insulating flange. At an insulated valve flange, line interior of the piping for a distance of two pipe diameters away from the valve.

3.03 PREPARATION OF SURFACES FOR THERMITE WELDING

- A. Remove any existing coating on the pipe by making a 3-inch square window in the coating. File or grind the exposed metal surface to produce a bright metal finish, equivalent to SSPC SP-10.

3.04 COATING OVER THERMITE WELD CONNECTION

- A. After completing the weld connection between the wire and the pipe, coat the connection as shown on the drawings.

3.05 INSTALLATION OF REFERENCE CELLS

- A. Install copper-copper sulfate reference cells as detailed in the drawings. If specific details are not shown, install reference cells at the elevation of the pipe springline, 6 inches from the pipe.
- B. Backfill around each reference cell and compact as specified in Section 312316, to a point 1 foot above the cell. Backfill material shall be the same as the pipe bedding conforming to Section 312316.
- C. After backfill is 1 foot above the top of the reference cell, pour 5 gallons of water onto the cell to completely saturate the packaged backfill.
- D. Coil the reference cell wire in slack loops to compensate for settlement both near the cell and near the cathodic test station. Any damage to the insulation on the reference cell wires shall be wrapped with two layers of Scotch No. 23 high-voltage tape and two layers of Scotch No. 88 vinyl electrical tape or equal.

3.06 TESTING JOINT BONDING WIRES FOR CONTINUITY

- A. Perform electrical tests to demonstrate that all joint bonding wires or rods have been properly installed. The purpose of the test is to locate improperly attached bonding wires or rods after backfilling and compacting have been completed. Perform testing using one of the following methods:
 - 1. Conduct tests by the "Null" method, using an impressed audio frequency current to detect electrical points of discharge. Product: Tinker and Rasor Model PD Detector and Null Method. Locate poorly attached joint bonding wires or rods by noting a disturbance in null.
 - 2. Conduct tests by means of a d-c voltage gradient survey. Product: Solomon Corrosion Consulting Services (SCCS) Pty, Ltd. Model PCS 2000. Provide a d-c current to the pipeline. Use two probes at grade level to detect changes in resistance to earth at points of electrical discharge.
- B. Excavate pipe joints identified as having defective bonding wires or straps and repair the defective items.

END OF SECTION

SECTION 311100 CLEARING, STRIPPING, AND GRUBBING

PART 1 - GENERAL

1.01 DESCRIPTION

This section describes the work included in clearing, stripping, grubbing, and preparing the project site for construction operations.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Protecting Existing Underground Utilities: 020120.
- B. Earthwork: 312300.
- C. Trenching, Backfilling, and Compacting: 312316.

1.03 CLEARING

Remove and dispose of trees, snags, stumps, shrubs, brush, limbs, sticks, branches, and other vegetative growth. Remove rocks, tiles, and lumps of concrete. Remove all evidence of their presence from the surface. Remove and dispose of trash piles and rubbish. Protect structures and piping above and below ground, trees, shrubs, and vegetative growth and fencing which are not designated for removal.

1.04 STRIPPING

- A. Remove and dispose of organic sod, topsoil to a depth of 6 inches, grass and grass roots, and other objectionable material remaining after clearing from the areas designated to be stripped.

1.05 GRUBBING

After clearing and stripping, remove and dispose of wood or root matter, including stumps, logs, trunks, roots, or root systems greater than 1 inch in diameter or thickness to a depth of 12 inches below the ground surface.

PART 2 - MATERIALS

2.01 TREES AND SHRUBBERY

Existing trees, shrubbery, and other vegetative material may not be shown in the drawings. Inspect the site as to the nature, location, size, and extent of vegetative material to be removed or preserved, as specified herein. Preserve in place trees that are specifically shown in the drawings and designated to be preserved.

2.02 PRESERVATION OF TREES, SHRUBS, AND OTHER PLANT MATERIAL

- A. Save and protect plant materials (trees, shrubbery, and plants) beyond the limits of clearing and grubbing from damage resulting from the work. No filling, excavating, trenching, or stockpiling of materials will be permitted within the drip line of these plant materials. The drip line is defined as a circle drawn by extending a line vertically to the ground from the outermost branches of a plant or group of plants. To prevent soil compaction within the drip line area, no equipment will be permitted within this area.
- B. Cut and remove tree branches where necessary for construction. Remove branches other than those required for a balanced appearance of any tree. Treat cuts with a tree sealant.

PART 3 - EXECUTION

3.01 CLEARING, STRIPPING, AND GRUBBING AREAS AND LIMITS

- A. Clear, strip, and grub excavation and embankment areas associated with new structures, slabs, walks, and roadways.
- B. Clear and strip stockpile areas.
- C. Limits of clearing, stripping, and grubbing:
 - 1. Excavation, Excluding Trenches: 5 feet beyond tops of cut slopes.
 - 2. Trench excavation for piping and electrical conduits: 3 feet from edge of trench.

3.02 DISPOSAL OF CLEARING AND GRUBBING DEBRIS

Do not burn combustible materials. Remove cleared and grubbed material from the worksite and dispose.

3.03 DISPOSAL OF STRIPPED MATERIAL

Remove stripped material and dispose offsite.

END OF SECTION

SECTION 312316 TRENCHING, BACKFILLING, AND COMPACTING

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials, testing, and installation for pipeline trench excavation, backfilling, and compacting.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Protecting Existing Underground Utilities: 020120.
- B. Cathodic Protection and Joint Bonding: 264213.
- C. Clearing, Stripping, and Grubbing: 311100.
- D. Pressure Testing of Piping: 400515.

1.03 SUBMITTALS

- A. Submit in accordance "Data to be Furnished by the Contractor – Submittals" with copies of a report from a testing laboratory verifying that material conforms to the specified gradations or characteristics for pea gravel, granular material, imported sand, rock refill for foundation stabilization, and water. Submit asbestos test results with the submittals for materials gradation. Material gradation reports without the accompanying asbestos test results will be rejected as incomplete.
- B. Submit method(s) of compaction including removal sequence of shoring where used.

1.04 TESTING FOR COMPACTION

- A. The Contractor will test for compaction as described below.
- B. Determine the density of soil in place by the sand cone method, ASTM D1556 or by nuclear methods, ASTM D6938. Compaction tests will be performed for each lift or layer. If nuclear methods are used for in-place density determination, verify the accuracy with one sand cone and one maximum laboratory dry density, for every five nuclear tests taken if the backfill material is processed fill or visually consistent. More sand cones and densities will be required if the backfill material is visually variable. The minimum depth for the sand cone test hole shall be 12 inches. The minimum size shall be 8 inches, and size 16/30 or 10/20 silica sand shall be used.
- C. Determine laboratory moisture-density relations of soils by ASTM D1557. If nuclear methods are used for in-place density determination, the compaction test results for maximum dry density and optimum water content shall be adjusted in accordance with

ASTM D4718. This will be required for determination of percent relative compaction and moisture variation from optimum.

- D. Determine the relative density of cohesionless soils by ASTM D4253 and D4254.
- E. Sample backfill materials per ASTM D75.
- F. "Relative compaction" is the ratio, expressed as a percentage, of the in-place dry density to the laboratory maximum dry density.
- G. Compaction shall be deemed to comply with the specifications when no more than one test falls below the specified relative compaction. The one test shall be no more than three percentage points below the specified compaction. The Contractor shall pay the costs for any retesting or additional testing of work not conforming to the specifications.
- H. Where compaction tests indicate a failure to meet the specified compaction, the Owner will take additional tests every 10 feet in each direction until the extent of the failing area is identified. Rework the entire failed area until the specified compaction has been achieved.

1.05 PAVEMENT ZONE

The pavement zone includes the asphalt concrete and aggregate base pavement section placed over the trench backfill.

1.06 STREET ZONE

The street zone is the top 30 inches of the trench immediately below the pavement zone in paved areas. Where the depth of cover over the pipe does not permit the full specified thickness of the street zone, construct a thinner street zone, extending from the top of the pipe zone to the bottom of the pavement zone.

1.07 TRENCH ZONE

The trench zone includes the portion of the trench from the top of the pipe zone to the bottom of the street zone in paved areas or to the existing surface in unpaved areas. If the resulting trench zone is less than 24 inches thick, the street zone shall extend to the top of the pipe zone and there shall be no separate trench zone.

1.08 PIPE ZONE

The pipe zone shall include the full width of trench from the bottom of the pipe or conduit to a horizontal level above the top of the pipe, as specified below. Where multiple pipes or conduits are placed in the same trench, the pipe zone shall extend from the bottom of the lowest pipe to a horizontal level above the top of the highest or topmost pipe. Thickness of pipe zone above the highest top of pipe shall be as follows unless otherwise shown in the drawings or otherwise described in the specifications for the particular type of pipe installed.

Pipe Diameter	Thickness of Pipe Zone Above Top of Pipe
6 inches or smaller	6 inches
8 inches and larger	12 inches

1.09 PIPE BASE OR BEDDING

The pipe base or bedding shall be defined as a layer of material immediately below the bottom of the pipe or conduit and extending over the full trench width in which the pipe is bedded. Thickness of pipe base shall be as follows unless otherwise shown in the drawings or otherwise described in the specifications for the particular type of pipe installed.

Pipe Diameter	Thickness of Pipe Base
Smaller than 4 inches	6 inches
4 inches through 16 inches	12 inches

PART 2 - MATERIALS

2.01 GRANULAR MATERIAL FOR BACKFILL--STREET AND TRENCH ZONES

Granular material or granular soil for backfill used above the pipe zone shall be lean bank-run or pit-run gravel, or native soil. The maximum particle size shall be 2 inches. A maximum of 3% shall pass a No. 200 sieve.

2.02 NATIVE EARTH BACKFILL--STREET AND TRENCH ZONES

- A. Native earth backfill used above the pipe zone shall be excavated fine-grained materials free from roots, debris, rocks larger than 3 inches, asbestos, organic matter, clods, clay balls, broken pavement, and other deleterious materials. Less than 3% shall pass a No. 200 sieve. At least 40% shall pass a No. 4 sieve. The coarser materials shall be well distributed throughout the finer material.
- B. Backfill materials that are obtained from trench excavated materials to the extent such material is available shall be either screened directly into the trench or screened during the trenching operation. If screened during trenching, the material shall be maintained free of unscreened material during the handling and backfilling process. Hand selecting of rocks from earth as it is placed into the trench will not be permitted in lieu of the specified screening. Under no circumstances will native earth backfill be allowed or used in the pipe base or pipe zone areas. Backfill shall be moisture conditioned to within approximately 2% of the optimum moisture content prior to being placed in trench.

2.03 IMPORTED SAND--PIPE ZONE AND PIPE BASE

- A. Imported sand used in the pipe zone, for the pipe base or for the casing annulus or abandoned pipe shall have the following gradation:

Sieve Size	Percent Passing By Weight
3/8 inch	100
No. 4	75 to 100
No. 30	12 to 50
No. 100	5 to 20
No. 200	0 to 10

- B. Imported sand shall have a minimum sand equivalent of 30 per ASTM D2419. Imported sand shall have a saturated resistivity greater than 1,000 ohm-cm per ASTM G187, a neutral pH, and chlorides less than 100 ppm.

2.04 CONCRETE

- A. Concrete for unreinforced pipe encasement, thrust blocks and valve supports shall be Class C.
- B. Do not provide thrust blocks for steel pipe having welded, flanged, or butt-strap joints unless detailed in the drawings or required in the detailed piping specification.
- C. Conform to ASTM C94, except as modified by these specifications.
- D. Air content as determined by ASTM C231 shall be 4% ±1%.
- E. Maximum water-cement ratio for Class A concrete = 0.45 by weight.
- F. Provide concrete with the following compressive strengths at 28 days and proportion it for strength and quality requirements in accordance with ACI 318, "Proportioning on the Basis of Field Experience," to achieve 28-day compressive strength as follows:

Class	Type of Work	28-Day Minimum Compressive Strength (in psi)	Minimum Cement Content (in lbs per C.Y.)
A	Concrete for all structures and concrete not otherwise specified. Concrete fill at structure foundations, cradle, supports across pipe trenches, and reinforced pipe encasement.	4,000	564
C	Concrete topping, miscellaneous unreinforced concrete.	2,000	376

G. Measure slump in accordance with ASTM C143. Slump shall be as follows:

1. Footings, walls, suspended slabs, beams, and columns: 4 inches maximum.

Proportion and produce the concrete to have a maximum slump as shown; slump is prior to addition of superplasticizer. A tolerance of up to 1 inch above the indicated maximum shall be allowed for individual batches provided the average for all batches or the most recent 10 batches tested, whichever is fewer, does not exceed the maximum limit. Concrete of lower than usual slump may be used provided it is properly placed and consolidated.

H. Aggregate size shall be 3/4 inch maximum for slabs and sections 8 inches thick and less. Aggregate size shall be 1 inch maximum for sections greater than 8 inches and less than 17 inches.

2.05 WATER FOR COMPACTION

Water shall be free of organic materials injurious to the pipe coatings.

2.06 UNDERGROUND PLASTIC WARNING TAPE FOR METAL PIPE

Provide permanent, bright-colored, continuous-printed plastic tape, intended for direct burial service, not less than 6 inches wide by 3.5 mils thick. Provide tape with printing which most accurately indicates type of service of buried pipe. Provide the following colored tape for the various piping services:

Service	Color
Cable TV	Orange
Chemical	Yellow
Electric	Red
Fuel Oil, Gasoline	Yellow
Gas	Yellow
Reclaimed Water	Violet
Sewer	Green
Telephone	Orange
Water	Blue

PART 3 - EXECUTION

3.01 SLOPING, SHEETING, SHORING, AND BRACING OF TRENCHES

Trenches shall have sloping, sheeting, shoring, and bracing conforming with 29CFR1926, Subpart P--Excavations, Nevada OSHA requirements.

3.02 SIDEWALK, PAVEMENT, AND CURB REMOVAL

Cut bituminous and concrete pavements regardless of the thickness and curbs and sidewalks prior to excavation of the trenches with a pavement saw or pavement cutter. Width of the pavement cut shall be at least equal to the required width of the trench at ground surface. Haul pavement and concrete materials from the site. Do not use for trench backfill.

3.03 TRENCH EXCAVATION

- A. Excavate the trench to the lines and grades shown in the drawings with allowance for pipe thickness, sheeting and shoring if used, and for pipe base or special bedding. If the trench is excavated below the required grade, refill any part of the trench excavated below the grade at no additional cost to the Owner with imported sand. Place the refilling material over the full width of trench in compacted layers not exceeding 6 inches deep to the established grade with allowance for the pipe base or special bedding.
- B. Trench widths in the pipe zone shall be as shown in the drawings. If no details are shown, maximum width shall be 18 inches greater than the pipe outside diameter. Comply with 29CFR Part 1926 Subpart P--Excavations. Trench width at the top of the trench will not be limited except where width of excavation would undercut adjacent structures and footings. In such case, width of trench shall be such that there is at least 2 feet between the top edge of the trench and the structure or footing.

- C. Construct trenches in rock by removing rock to a minimum of 12 inches below bottom of pipe and backfilling with imported sand.

3.04 TRENCH EXCAVATION IN BACKFILL AND EMBANKMENT AREAS

- A. Construct and compact the embankment to an elevation of 1-foot minimum over the top of the largest pipe or conduit to be installed.
- B. Excavate trench in the compacted backfill or embankment.

3.05 LOCATION OF EXCAVATED MATERIAL

- A. During trench excavation, place the excavated material only within the working area. Do not obstruct any roadways or streets. Do not place trench spoil over pipe, buried utilities, manholes, or vaults. Conform to federal, state, and local codes governing the safe loading of trenches with excavated material.
- B. Locate trench spoil piles at least 15 feet from the tops of the slopes of trenches. Do not operate cranes and other equipment on the same side of the trench as the spoil piles.

3.06 DEWATERING

Provide and maintain means and devices to remove and dispose of water entering the trench excavation during the time the trench is being prepared for the pipe laying, during the laying of the pipe, and until the backfill at the pipe zone has been completed. These provisions shall apply during both working and nonworking hours, including lunchtime, evenings, weekends, and holidays. Dispose of the water in a manner to prevent damage to adjacent property and in accordance with regulatory agency requirements. Do not drain trench water through the pipeline under construction. Do not allow groundwater to rise around the pipe until jointing compound has set hard.

3.07 FOUNDATION STABILIZATION

- A. After the required excavation has been completed, the Owner will inspect the exposed subgrade to determine the need for any additional excavation. It is the intent that additional excavation be conducted in all areas within the influence of the pipeline where unacceptable materials exist at the exposed subgrade. Overexcavation shall include the removal of all such unacceptable material that exist directly beneath the pipeline to a width 24 inches greater than the pipe outside diameter and to the depth required.
- B. Place filter fabric on the bottom of the trench and up the sides a sufficient height to retain rock refill material. Backfill the trench to subgrade of pipe base with rock refill material for foundation stabilization. Place the foundation stabilization material over the full width of the trench and compact in layers not exceeding 12 inches deep to the required grade. Foundation stabilization work shall be executed in accordance with a change order.

- C. Rock refill used by the Contractor for his convenience will not be cause for any additional payment.

3.08 INSTALLING BURIED PIPING

- A. Grade the bottom of the trench to the line and grade to which the pipe is to be laid, with allowance for pipe thickness. Remove hard spots that would prevent a uniform thickness of bedding. Place the specified thickness of pipe base material over the full width of trench. Grade the top of the pipe base ahead of the pipe laying to provide firm, continuous, uniform support along the full length of pipe, and compact to the relative compaction specified herein. Before laying each section of the pipe, check the grade and correct any irregularities.
- B. Excavate bell holes at each joint to permit proper assembly and inspection of the entire joint. Fill the area excavated for the joints with the bedding material specified or indicated in the drawings for use in the pipe zone. If no bedding material is specified or indicated, use imported sand.
- C. Inspect each pipe and fitting before lowering the buried pipe or fitting into the trench. Inspect the interior and exterior protective coatings. Patch damaged areas in the field with material recommended by the protective coating manufacturer. Clean ends of pipe thoroughly. Remove foreign matter and dirt from inside of pipe and keep clean during and after installation.
- D. Handle pipe in such a manner as to avoid damage to the pipe. Do not drop or dump pipe into trenches under any circumstances.
- E. After pipe has been bedded, place pipe zone material simultaneously on both sides of the pipe, in maximum 6-inch lifts, keeping the level of backfill the same on each side. If no pipe zone material is specified or indicated, use imported sand. Carefully place the material around the pipe so that the pipe barrel is completely supported and no voids or uncompacted areas are left beneath the pipe. Use particular care in placing material on the underside of the pipe to prevent lateral movement during subsequent backfilling.
- F. Compact each lift to the relative compaction specified herein.
- G. Push the backfill material carefully onto the backfill previously placed in the pipe zone. If no backfill material is otherwise specified or indicated, use granular material for backfill. Do not permit free-fall of the material until at least 2 feet of cover is provided over the top of the pipe. Do not drop sharp, heavy pieces of material directly onto the pipe or the tamped material around the pipe. Do not operate heavy equipment or a sheepsfoot wheel mounted on a backhoe over the pipe until at least 3 feet or one-half of the internal diameter, whichever is greater, of backfill has been placed and compacted over the pipe.
- H. When the pipe laying is not in progress, including the noon hours, close the open ends of pipe. Do not allow trench water, animals, or foreign material to enter the pipe.

- I. Keep the trench dry until the pipe laying and jointing are completed.

3.09 BACKFILL COMPACTION

- A. Unless otherwise shown in the drawings or otherwise described in the specifications for the particular type of pipe installed, relative compaction in pipe trenches shall be as follows:
 - 1. Pipe Zone: 90% relative compaction.
 - 2. Backfill in Trench Zone Not Beneath Paving: 90% relative compaction.
 - 3. Backfill in Trench Zone to Street Zone in Paved Areas: 90% relative compaction.
 - 4. Backfill in Street Zone in Paved Areas: 95% relative compaction.
 - 5. Rock Refill for Foundation Stabilization: 90% relative density.
 - 6. Refill for Overexcavation: 90% relative density.
- B. Compact trench backfill to the specified relative compaction. Compact by using mechanical compaction or hand tamping. Do not use high-impact hammer-type equipment except where the pipe manufacturer warrants in writing that such use will not damage the pipe.
- C. Compact material placed within 12 inches of the outer surface of the pipe by hand tamping only.
- D. Do not use any axle-driven or tractor-drawn compaction equipment within 10 feet of building walls, foundations, and other structures or existing pipe.

3.10 MATERIAL REPLACEMENT

Remove and replace any trenching and backfilling material that does not meet the specifications, at the Contractor's expense.

END OF SECTION

SECTION 317216 JACKED STEEL CASING

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and installation for tunneling by jacked steel casing method for highway crossings and other shallow depth tunnels.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Trenching, Backfilling, and Compacting: 312316.
- B. Low-Pressure Grouting of Tunnels: 317313.
- C. Installation of Buried Steel or Concrete Pipe: 402051.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals."
- B. Submit materials list showing material of casing with ASTM reference and grade. Submit manufacturer's certification of compliance with referenced standards, e.g., ASTM A36, A139, and A283 and AWWA C200.
- C. For casings 24 inches and larger, submit certified original copies of mill test reports on each heat from which steel is rolled. Tests shall include physical and chemical properties.
- D. Submit manufacturer's certificates of compliance with referenced pipe standards, e.g., ASTM A36, ASTM A139, and ASTM A283. Provide recertification by an independent domestic testing laboratory for materials originating outside of the United States.
- E. Submit certificates of welding consumables used for shop and field welding.
- F. Submit welding procedure specifications (WPS) and procedure qualification records (PQR) for each welding process and welder qualification records (WQR) for each welder and welding operator. Submit bend and tensile test coupons concurrently with welder qualification and procedure qualification records. Welding procedures shall be required for welds for pipe cylinders, casing joint welds, and grout coupling connections.
- G. Submit shop drawings showing the method of preventing pipe flotation and how the concrete backfill will be terminated at the end of the tunnel.
- H. Submit diameter, thickness, and class of steel casing.

- I. Submit location of approach trench.
- J. Submit schedule and method of tunnel construction. Include also approach trench backfill and pipe installation and backfill.

1.04 SCHEDULING

If the pipeline is not installed within the casing as a continuous operation following completion of jacking, then bulkhead the portals and backfill the approach trenches and later reopen them for pipe installation.

1.05 JURISDICTION

- A. Comply with the applicable regulations of 29CFR 1926, Subpart S, "Underground Construction, Caisson, Cofferdams, and Compressed Air" as amended.
- B. For casing pipe crossing under roadways, railroads, or other installations not within the jurisdiction of the Owner, comply with regulations and permit requirements of said authority.
- C. State highway casing installations shall be as specified in the Nevada DOT Standards for installation of future water lines.

1.06 INSPECTION

Perform work in the presence of the Owner's Representative unless the Owner's Representative has granted prior approval to perform such work in its absence.

PART 2 - MATERIALS

2.01 STEEL CASING

- A. Fabrication of casing shall be in accordance with AWWA C200, as modified below. Casing material shall conform to ASTM A283, Grade C; ASTM A139, Grade B; or ASTM A36. Obtain minimum diameter and wall thickness from drawings. The Contractor may select a greater thickness and diameter to accommodate the method of work, loadings involved, the site and possible interferences, but at no additional cost to Owner. Provide 2-inch grout connections in the form of threaded couplings welded to the steel shell regularly spaced at 4 feet on centers at the top and bottom of the casing.
- B. Join casing sections by butt-welding in the field. Prepare ends of casings for welding in accordance with the submitted welding procedure.

2.02 CASING SPACERS

Casing spacers shall be bolt-on style with a shell made in two sections of Type 304 stainless steel. Connecting flanges shall be ribbed. The shell shall be lined with a PVC liner 0.090 inch thick with 85-90 durometer. Nuts and bolts shall be 18-8 stainless steel.

Construct runners of ultra high molecular weight polymer. Support runners by risers made of Type 304 stainless steel. Weld the supports to the shell, and passivate the welds. Casing spacers shall be Cascade Waterworks Mfg. Co., PSI, APS, or equal.

2.03 CASING SEALS

Casing seals may be sand bags or rubber. Rubber casing seals shall be 1/8-inch-thick synthetic rubber, designed to fit snugly around pipe and casing. Casing seals shall be one piece with no field seams. Bands and hardware for attachment to pipe and casing outside diameter shall be stainless steel. Products: PSI or equal.

2.04 SAND BACKFILL

- A. Sand shall be dry (water content not more than 6% or less than 3%), free from organic matter, and containing not over 5% by weight of deleterious substances. It shall be hard, dense, durable, clean, sharp, and graded evenly from fine to coarse as follows:

Sieve Size	Percent By Weight
3/8 inch	100
No. 4	97 to 100
No. 8	79 to 85
No. 16	60 to 78
No. 30	36 to 47
No. 50	10 to 20
No. 100	0 to 4

- B. Sand shall have a fineness modulus per ASTM C136 of between 2.70 and 3.30, inclusive.

PART 3 - EXECUTION

3.01 FABRICATION, ASSEMBLY, AND ERECTION

- A. Beveled ends for butt-welding shall conform to ASME B16.25. Remove slag by chipping or grinding. Surfaces shall be clean of paint, oil, rust, scale, slag, and other material detrimental to welding. When welding the reverse side, chip out slag before welding.
- B. The minimum number of passes for welded joints shall be as follows:

Steel Cylinder Thickness (inch)	Minimum Number of Passes for Welds
Less than 0.1875	1
0.1875 through 0.25	2
Greater than 0.25	3

- C. Welds shall be full penetration, except that partial-penetration butt-welds, where used, shall develop the full compressive and tensile strength of the mating plates.
- D. Use the shielded metal arc welding (SMAW) submerged arc welding (SAW), flux-cored arc welding (FCAW), or gas-metal arc welding (GMAW) process for shop welding. Use the SMAW process for field welding.
- E. Prepare edges of plate to be butt-welded. Butt-weld all joints.
- F. Clean each layer of deposited weld metal prior to depositing the next layer of weld metal, including the final pass, by a power-driven wire brush.
- G. Welding electrodes shall comply with AWS A5.1.

3.02 SECTIONAL SHIELD OR JACKING HEAD

Fit a sectional shield or steel jacking head to the leading section of the casing to extend around the outer surface of the upper two-thirds of the casing and project at least 18 inches beyond the driving end of the casing but do not protrude more than 1/2 inch outside of the outer casing surface. Anchor the head to prevent wobble or alignment variation during the jacking operation. To avoid causing a collapse of ground outside the casing, carry out excavation entirely within the jacking head and not in advance of the head.

3.03 JACKING PIT

- A. Place in the approach trench or jacking pit and firmly bed on the required line and grade guide rails, structural steel, or concrete cradle of sufficient length to provide accurate control of jacking alignment. Provide space to permit the insertion of the lengths of casing to be jacked. Anchor the guide rails and structural steel sections to ensure action of the jacks in line with the axis of the casing. Interpose between the jacks and the end of the casing a bearing block consisting of a timber or structural steel framework constructed to provide uniform end bearing over the perimeter of the casing and distribute the jacking pressure evenly.
- B. If utilities are required to be supported or relocated for construction of the jacking pits, include such cost in the bid.

3.04 CONTROL OF ALIGNMENT AND GRADE

Control the application of jacking pressure and excavation of material ahead of the casing as it advances to prevent the casing from becoming earthbound or deviating from required line and grade. Do not encroach upon the minimum annular space detailed. Restrict the excavation of material to the least clearance necessary to prevent binding in order to avoid causing a collapse of ground and consequent settlement or possible damage to overlying structures.

3.05 EXTERIOR GROUTING

Immediately after completion of the jacking or boring operation, inject lean grout through the grout connections per Section 317313 and in such a manner as to completely fill all voids outside the casing pipe resulting from the jacking or boring operation. Control grout pressure to avoid deformation of the casing, avoid damaging or plugging of adjacent subdrains, and avoid movement of the surrounding ground. After completion of grouting, close the grout connections with malleable iron or cast-iron threaded plugs.

3.06 SAND BACKFILL

After placement of the pipe within the casing, construct a permanent bulkhead at each end of the casing or use casing seals and fill the intervening annular space between the pipe and the casing with sand, placed by a pneumatic gun. Refer to the drawings for locations of casings to be filled with sand.

3.07 CLOSING THE JACKING PIT

Seal the end of the casing with casing seals or sand bags. After jacking equipment and muck from the tunnel have been removed from the approach trench or jacking pit, prepare the bottom of the jacking pit as a pipe foundation. Remove loose and disturbed material below pipe grade to undisturbed earth and recompact the material in accordance with Section 312316.

3.08 ALIGNMENT

The variation in the field position of the casing from the line and grade as indicated in the drawings shall be limited to 3 inch in lateral alignment and 1 inch in vertical grade.

END OF SECTION

SECTION 317313 LOW-PRESSURE GROUTING OF TUNNELS

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes material and equipment for the low pressure grouting (20 psi or less) of the annular space between the pipe and the primary support system in the tunnel.

1.02 RELATED WORK DESCRIBED ELSEWHERE

- A. Jacked Steel Casing: 317216.
- B. Installation of Buried Steel or Concrete Pipe: 402051.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit records and reports specified herein.
- C. Submit the mix proportions of the grout, for every case, proposed grouting pressures, and the equipment for mixing and placing grout for review.
- D. Submit grouting schedule and sequence.
- E. Submit the time of beginning grouting operations and the method of conducting such operations for review by the Owner's Representative.
- F. Maintain and submit records of grouting operations for each shift, including the location and a detailed log of each grout hole, time of each change of grouting operations, pressures, rates of pumping, grout mix, and grout take at each grout hole hook-up.

PART 2 - MATERIALS

2.01 GROUT PIPE AND COUPLINGS

Grout pipe shall be 2-inch black steel pipe, standard weight (Schedule 40) conforming to the requirements of ASTM A53. Couplings shall be malleable iron. Plugs to be installed in the couplings shall be steel.

2.02 GROUT

- A. Grout shall consist of portland cement and water or of portland cement, sand, and water. Grout mixtures may contain bentonite or fly ash.

- B. Portland cement, water, and sand shall conform to one part portland cement to two parts sand the sand shall be of such fineness that 100% will pass a standard 8-mesh sieve and at least 45%, by weight, will pass a standard 40-mesh sieve. Add sufficient water to form a flowable consistency.

PART 3 - EXECUTION

3.01 GROUT COUPLINGS

- A. Attach grout couplings to the casing as shown in the drawings at the fabricating plant.
- B. Drill grout holes, not less than 1 1/2 inches in diameter, through the concrete backfill at each preset coupling in the pipe. Grout holes shall be extended through the lagging if a rib and lagging type of primary support system is used. Drilling of grout holes shall follow closely behind the placement of concrete so as to test the degree of completeness of the concrete filling. If incomplete concrete filling is revealed by the drilling operations or by inspection of the concrete backfill through the drilled holes, adjust the placement of concrete backfill to ensure that voids are completely filled. Do not drill grout holes through pipe, except through attached grout pipes and couplings.
- C. Perform drilling, rodding, or other work in connection with keeping grout pipe, couplings, and holes clear of obstructions including the drilling for any required regrouting.

3.02 CONNECTIONS

- A. Make connections for injecting grout through each hole drilled through each preset pipe and coupling.
- B. Provide a threaded pipe and straightway valve or plug valve on each preset coupling.
- C. The connection shall be a threaded fitting and shall prevent the leakage of grout under the required grouting pressure. Each valve shall have a free opening area equal to the bore of the grout pipe.

3.03 GROUTING

- A. Grout jacked steel casing before installation of the carrier pipe as specified in Section 317216 of the specifications and as specified here.
- B. Materials shall be free of lumps when put into the mixer. Constantly agitate the grout mix. Grout shall flow unimpeded and completely fill all voids.
- C. Perform the injection of grout continuously on any one section. Fill spaces and voids until completed, so as to avoid disturbance of grout that has taken an initial set. Operate and control the grouting process such that the grout will be delivered uniformly and steadily. If, during the grouting of any pipe, grout is found to flow from adjacent grout

pipes, close such pipes from which grout is flowing with valves or plugged with wooden plugs. Where such closing is not essential, leave ungrouted pipes open to facilitate the escape of air and water from the space being grouted.

- D. Grouting shall progress from grout pipe to grout pipe in a sequence submitted for review by the Owner's Representative. In going from lower to higher grout pipes, do not make connections to the higher grout pipes until the grout has completely filled the space below the higher grout pipes. As the grouting proceeds, the escape of grout from the upper pipes in turn shall be permitted as an indication of successive satisfactory filling of voids with grout.
- E. In general, grouting will be considered completed when no more grout of the required mix and consistency can be forced in under the specified pressure. After the grouting of any grout pipe is finished, maintain the pressure by means of a stopcock or other device until the grout has set to the extent that it will be retained.
- F. Submit grouting pressures for review by the Owner's Representative, but in no case shall the pressure exceed 20 psi.
- G. Protect and preserve the interior surfaces of the pipe from damage. Minimize grout drop and proceed with cleanup immediately after grouting. Repair damage to the pipe caused by or occurring during the grouting operations. The interior lining of the pipe shall be smooth and free from defects.
- H. After the grout has set sufficiently, remove the threaded pipes and valves and install an NPT tapered steel plug in each preset coupling as shown in the drawings. The surface finish and curing of such pointed or filled areas shall match that of the adjacent work.

END OF SECTION

SECTION 400500 GENERAL PIPING REQUIREMENTS

PART 1 - GENERAL

1.01 DESCRIPTION

This section describes the general requirements for selecting piping materials; selecting the associated bolts, nuts, and gaskets for flanges for the various piping services in the project; and miscellaneous piping items.

1.02 SUBMITTALS

- A. Submit shop drawings in accordance with “Data to be Furnished by the Contractor – Submittals”.
- B. Submit affidavit of compliance with referenced standards (e.g., AWWA, ANSI, ASTM, etc.).
- C. Submit certified copies of mill test reports for bolts and nuts, including coatings if specified. Provide recertification by an independent domestic testing laboratory for materials originating outside of the United States.
- D. Submit manufacturer's data sheet for gaskets supplied showing dimensions and bolting recommendations.

1.03 DEFINITIONS OF BURIED AND EXPOSED PIPING

- A. Buried piping is piping buried in the soil, commencing at the wall or beneath the slab of a structure. Where a coating is specified, provide the coating up to the structure wall. Unless detailed otherwise, coating shall penetrate wall no less than 1 inch. Piping encased in concrete is considered to be buried. Do not coat encased pipe.
- B. Exposed piping is piping in any of the following conditions or locations:
 - 1. Above ground.
 - 2. Inside buildings, vaults, or other structures.
 - 3. In underground concrete trenches or galleries.

PART 2 - MATERIALS

2.01 MATERIALS SELECTION AND ALTERNATIVE MATERIALS

- A. The drawings lists the material and specification for each piping service in the project.

- B. Do not intermix piping materials.

2.02 THREAD FORMING FOR STAINLESS STEEL BOLTS

Form threads by means of rolling, not cutting or grinding.

2.03 BOLTS AND NUTS FOR FLANGES FOR STEEL PIPING (SPECIFICATION SECTION 402053)

- A. Bolts and nuts for buried or submerged Class 600 flanges and Class 600 flanges located outdoors above ground or in vaults and structures shall be Type 316 stainless steel conforming to ASTM A193, Grade B8M, Class 2, for bolts and ASTM A194, Grade 8M, for nuts.
- B. Bolts used in flange insulation kits shall conform to ASTM A193 (Grade B7). Nuts shall conform to ASTM A194 (Grade 2H).
- C. Provide washers for each nut. Washers shall be of the same material as the nuts.

2.04 LUBRICANT FOR STAINLESS STEEL BOLTS AND NUTS

Lubricant shall be chloride free and shall be RAMCO TG-50, Anti-Seize by RAMCO, Specialty Lubricants Corporation Husky™ Lube O'Seal, or equal.

2.05 GASKETS FOR FLANGES FOR STEEL PIPING IN WATER SERVICE (SPECIFICATION SECTIONS 402053)

- A. Gaskets for flat face and raised face flanges shall be 1/8-inch thick and shall be one of the following nonasbestos materials:
 - 1. Acrylic or aramid fiber bound with nitrile. Products: Garlock "Bluegard," Klinger "Klingersil C4400," or equal. Gaskets shall be suitable for a pressure of 1000 psi at a temperature of 200°F.
- B. Gaskets for Class 600 flanges with ring-joint facing shall conform to ASME B16.20, Type 316 stainless steel.

2.06 FLANGE INSULATION KITS

See Section 264213.

PART 3 - EXECUTION

3.01 INSTALLING PIPE SPOOLS IN CONCRETE

Install pipes in walls and slabs before placing concrete.

3.02 RAISED FACE AND FLAT FACE FLANGES

Where a raised face flange connects to a flat-faced flange, remove the raised face of the flange.

3.03 INSTALLING ABOVEGROUND OR EXPOSED PIPING

- A. Install pipe without springing, forcing, or stressing the pipe or any adjacent connecting valves or equipment.

3.04 INSTALLING FLANGED PIPING

- A. Set pipe with the flange bolt holes straddling the pipe horizontal and vertical centerline. Install pipe without springing, forcing, or stressing the pipe or any adjacent connecting valves or equipment. Before bolting up, align flange faces to the design plane within 1/16 inch per foot measured across any diameter. Align flange bolt holes within 1/8-inch maximum offset.
- B. Inspect each gasket to verify that it is the correct size, material, and type for the specified service and that it is clean and undamaged. Examine bolts or studs, nuts, and washers for defects such as burrs or cracks and rust and replace as needed.
- C. Clean flanges by wire brushing before installing flanged fittings. Clean flange bolts and nuts by wire brushing, lubricate carbon steel bolts with oil and graphite, and tighten nuts uniformly and progressively.
- D. Bolt lengths shall extend completely through their nuts. Any that fail to do so shall be considered acceptably engaged if the lack of complete engagement is not more than one thread.
- E. Do not use more than one gasket between contact faces in assembling a flanged joint.
- F. Tighten the bolts to the manufacturer's specifications, using the recommended cross bolt pattern in multiple steps of increasing torque, until the final torque requirements are achieved. Do not over torque.
- G. If flanges leak under pressure testing, loosen or remove the nuts and bolts, reset or replace the gasket, reinstall or retighten the bolts and nuts, and retest the joints. Joints shall be watertight.

3.05 INSTALLING BLIND FLANGES

- A. At outlets not indicated to be connected to valves or to other pipes and to complete the installed pipeline hydrostatic test, provide blind flanges with bolts, nuts, and gaskets.

3.06 INSTALLING GROOVED-END PIPING

- A. Install grooved-end pipe and fittings in accordance with the coupling manufacturer's recommendations and the following.
- B. Clean loose scale, rust, oil, grease, and dirt from the pipe or fitting groove before installing coupling. Apply the coupling manufacturer's gasket lubricant to the gasket exterior including lips, pipe ends, and housing interiors.
- C. Fasten coupling alternately and evenly until coupling halves are seated. Use torques as recommended by the coupling manufacturer.

3.07 INSTALLATION OF STAINLESS STEEL BOLTS AND NUTS

Prior to assembly, coat threaded portions of stainless steel bolts and nuts with lubricant.

END OF SECTION

SECTION 400515 PRESSURE TESTING OF PIPING

PART 1 - GENERAL

1.01 DESCRIPTION

This section specifies the cleaning and hydrostatic and leakage testing of pressure piping for water piping systems.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Disinfection of Piping: 331300.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit test bulkhead locations and design calculations, pipe attachment details, and methods to prevent excessive pipe wall stresses.
- C. Submit six copies of the test records to the Owner's Representative upon completion of the testing.

1.04 TEST PRESSURES

Test pressures for the various services and types of piping are shown in the drawings.

1.05 TESTING RECORDS

Provide records of each piping installation during the testing. These records shall include:

- A. Date and times of test.
- B. Identification of pipeline, or pipeline section tested or retested.
- C. Identification of pipeline material.
- D. Identification of pipe specification.
- E. Test fluid.
- F. Test pressure at low point in pipeline or pipeline section.
- G. Remarks: Leaks identified (type and location), types of repairs, or corrections made.

- H. Certification by Contractor that the leakage rate measured conformed to the specifications.

PART 2 - MATERIALS

2.01 MANUAL AIR-RELEASE VALVES FOR BURIED PIPING

Provide temporary manual air-release valves for pipeline test. Construct the pipe outlet in the same manner as for a permanent air valve and after use, seal with a blind flange, pipe cap, or plug and coat the same as the adjacent pipe.

2.02 TEST BULKHEADS

Design and fabricate test bulkheads per Section VIII of the ASME Boiler and Pressure Vessel Code. Materials shall comply with Part UCS of said code. Design pressure shall be at least 2.0 times the specified test pressure for the section of pipe containing the bulkhead. Limit stresses to 70% of yield strength of the bulkhead material at the bulkhead design pressure. Include air-release and water drainage connections.

2.03 TESTING FLUID

- A. Testing fluid shall be water.
- B. For potable water pipelines, obtain and use only potable water for hydrostatic testing.
- C. The Contractor shall supply the water for all flushing and testing.

2.04 TESTING EQUIPMENT

Provide calibrated pressure gauges, pipes, bulkheads, pumps, chart recorder, and meters to perform the hydrostatic testing.

PART 3 - EXECUTION

3.01 TESTING PREPARATION

- A. Pipes shall be in place, backfilled, and anchored before commencing pressure testing.
- B. Conduct pressure tests on exposed and aboveground piping after the piping has been installed and attached to the pipe supports, hangers, anchors, expansion joints, valves, and meters.
- C. For buried piping, the pipe may be partially backfilled and the joints left exposed for inspection during an initial leakage test. Perform the final pressure test, however, after completely backfilling and compacting the trench.

- D. Provide any temporary piping needed to carry the test fluid to the piping that is to be tested. After the test has been completed and demonstrated to comply with the specifications, disconnect and remove temporary piping. Do not remove exposed vent and drain valves at the high and low points in the tested piping; remove any temporary buried valves and cap the associated outlets. Plug taps or connections to the existing piping from which the test fluid was obtained.
- E. Provide temporary drain lines needed to carry testing fluid away from the pipe being tested. Remove such temporary drain lines after completing the pressure testing. Prior to starting the test, the Contractor shall notify the Owner's Representative.

3.02 CLEANING

- A. Before conducting hydrostatic tests, flush pipes with water to remove dirt and debris. Maintain a flushing velocity of at least 3 fps for water testing. Flush pipes for time period as given by the formula

$$T = \frac{2L}{3}$$

in which:

T = flushing time (seconds)

L = pipe length (feet)

3.03 TESTING AND DISINFECTION SEQUENCE FOR POTABLE WATER PIPING

- A. Perform required disinfection after hydrostatic testing, except when pipeline being tested is connected to a potable waterline.
- B. Locate and install test bulkheads, valves, connections to existing pipelines, and other appurtenances in a manner to provide an air gap separation between existing potable water pipelines and the pipeline being tested. Disinfect water and pipeline being tested before hydrostatic testing when connected to a potable waterline.

3.04 LENGTH OF TEST SECTION FOR BURIED PIPING

The maximum length of test section for buried pipe of 12 inches or smaller in diameter is 500 feet; for buried pipe larger than 12 inches, 1 mile. Initial Pipeline Filling for Hydrostatic Testing

Maximum rate of filling shall not cause water velocity in pipeline to exceed 1 fps. Filling may be facilitated by removing automatic air valves and releasing air manually.

3.05 TESTING NEW PIPE WHICH CONNECTS TO EXISTING PIPE

Prior to testing new pipelines that are to be connected to existing pipelines, isolate the new line from the existing line by means of test bulkheads, spectacle flanges, or blind

flanges. After successfully testing the new line, remove test bulkheads or flanges and connect to the existing piping.

3.06 HYDROSTATIC TESTING OF ABOVEGROUND OR EXPOSED PIPING

- A. Open vents at high points of the piping system to purge air while filling the pipe with water. Venting during system filling may also be provided by temporarily loosening flanges.
- B. Subject the piping system to the test pressure indicated on the drawings. Maintain the test pressure for a minimum of four hours. Examine joints, fittings, valves, and connections for leaks. The piping system shall show zero leakage or weeping. Correct leaks and retest until zero leakage is obtained.

3.07 HYDROSTATIC TESTING OF BURIED PIPING

- A. Where any section of the piping contains concrete thrust blocks or encasement, do not perform the pressure test until at least 10 days after placing the concrete. When testing mortar-lined or PVC piping, fill the pipe to be tested with water and allow it to soak for at least 48 hours to absorb water before conducting the pressure test.
- B. Apply and maintain the test pressure by means of a positive displacement hydraulic force pump.
- C. Maintain the test pressure for the following duration by restoring it whenever it falls an amount of 5 psi:

Pipe Diameter (inches)	Hours
18 and less	4
20 to 36	8
Greater than 36	24

- D. After the test pressure is reached, use a meter to measure the additional water added to maintain the pressure. This amount of water is the loss due to leakage in the piping system. The allowable leakage volume is defined by the formula

$$L = \frac{HND(P)^{1/2}}{C}$$

in which:

- L = allowable leakage (gallons)
- H = specified test period (hours)
- N = number of rubber-gasketed joints in the pipe tested
- D = diameter of the pipe (inches)
- P = specified test pressure (psig)
- C = 7,400

- E. The allowable leakage for buried piping having threaded, brazed, or welded (including solvent welded) joints shall be zero.
- F. Repair and retest any pipes showing leakage rates greater than that allowed in the above criteria.

3.08 REPETITION OF TEST

If the actual leakage exceeds the allowable, locate and correct the faulty work and repeat the test. Restore the work and all damage resulting from the leak and its repair. Eliminate visible leakage.

3.09 BULKHEAD AND TEST FACILITY REMOVAL

After a satisfactory test, remove the testing fluid, remove test bulkheads and other test facilities, and restore the pipe coatings.

END OF SECTION

SECTION 400540 BALL VALVES (AWWA C507)

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials, testing, and installation of metal-seated ball valves. Size range is 6 through 48 inches.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Painting and Coating: 099000.
- B. General Piping Requirements: 400500.
- C. Pressure Testing of Piping: 400515.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit manufacturer's catalog data and detail fabrication drawings showing all valve parts and described by material of construction, specification (such as AISI, ASTM, SAE, or CDA), and grade or type.
- C. Show valve dimensions including laying lengths. Show dimensions and orientation of valve actuators, as installed on the valves. Show net assembled weight for each valve.
- D. Show valve linings and coatings. Submit manufacturer's catalog data and descriptive literature. Include application and curing instructions.
- E. Manufacturer shall certify that the rubber seat is field adjustable and replaceable.
- F. Submit six copies of a report verifying that the valve interior linings have been tested for holidays and lining thickness. Describe test results and repair procedures for each valve.
- G. Confirm the valve will operate in the partially open condition.
- H. Do not ship any valves to the project site until the Owner's Representative has reviewed all the submittals and returned them marked "Resubmittal not required."

1.04 MANUFACTURER'S SERVICES

Provide equipment manufacturer's factory services at the jobsite for the minimum labor days listed below, travel time excluded.

- A. One labor day to instruct the Owner's personnel in the operation and maintenance of the equipment.

PART 2 - MATERIALS

2.01 GENERAL

- A. Valves shall have the name of the manufacturer and the size of the valve cast or molded onto the valve body or bonnet or shown on a permanently attached plate.

2.02 VALVE DESIGN

Valves shall be flanged, conforming to AWWA C507 and the following. Valves shall be operable and hydrodynamically stable for fluid velocities up to 35 fps, fluid temperatures of 33°F to 125°F, and environmental temperature range of 35°F to 125°F. The ball position shall be partially to fully open under the above criteria. Valve shaft, key, actuator, and complete assembly shall not fail at the specified maximum fluid velocity. Valve ball shall not change position under any line velocity scenario, including maximum velocity.

2.03 END CONNECTIONS

Flanged ends shall be flat-faced Class 600, ASME B16.34 valves.

2.04 METAL-SEATED BALL VALVES

- A. Body: The valve body shall consist of two or three end pieces and two or three center body half pieces. Each end piece shall be bolted to the two adjoining center pieces. The two center pieces shall be longitudinally split and shall have machined surfaces for mating with each other. The center body pieces shall contain the ball assembly with the associated shaft stuffing box and packing. The body shall have integrally cast, bronze bushed trunnions. It shall provide rigid means for supporting the torque unit without the necessity of additional supports. Provide two pipe connections, one for an air vent and the other for drain. The end pieces shall contain the flanges for connecting to the adjacent piping. The port openings shall conform to the requirements of API 6D.
- B. Ball: The ball shall have integrally cast, bronze bushed trunnions. An extension of one trunnion (the operating shaft) shall pass through a sealing device (O-ring retainer) and connect to the valve operating mechanism. The operating shaft shall be chrome plated where it passes through the sealing device. Design the ball shaft so that the factor of safety for all combined stresses shall be at least five to one. Maximum torsional deflection shall not exceed 1/6 degree per foot of unsupported length using a seat coefficient of friction of 0.5 and a bearing coefficient of friction of 0.3.
- C. Bearings: Provide sleeve-type bearings fitted within both the ball and body trunnions. Bearing loading shall not exceed 900 psi at 150-psi differential pressure, 1,500 psi at 250-psi differential pressure, or 1,900 psi at 300-psi differential pressure. Bearings shall

be Teflon-lined with fiberglass backing or bronze and of dissimilar hardnesses to prevent galling.

D. Seats: Provide valves with a rotating ball seat. Do not use seat designs in which the seat is threaded directly onto the ball. Seats shall be metal; no resilient seating surfaces are acceptable. Install metal seating surfaces on a two-degree offset axis to prevent wedging of the seats. Maximum seat bearing pressure shall be 1,000 psi. Ball seats shall be adjustable to allow sealing in one direction without removing the valve from the adjacent piping.

E. Manufacturers: Apollo, Cameron, or equal.

2.05 LEAKAGE

The allowable leakage through the seat shall be as described in AWWA C507.

2.06 MATERIALS OF CONSTRUCTION

A. Materials of construction for Class 600 valves shall be as follows:

Item	Material	Specification
Valve body	Cast Steel	ASTM A216-WCB, or ASTM A105
Ball or rotor	Cast Steel	ASTM A108 Type 1215, or A216_WCB Chrome Plated, or ASTM A694 Gr F50 (M) Chrome Plated, or A105
Ball shaft	Alloy steel	ASTM A108 Type 1215
Shaft and taper pins	Alloy Steel	ASTM A182 Gr F51 or ASTM 17-4 PH
Body bolts, studs, and nuts	Stainless steel	Type 304 per ASTM B193, Grade B8 and ASTM A194, Grade 8
Cap screws (internal and external) and lockwashers	Stainless steel	AISI Type 316

B. Bronze in contact with water shall have the following constituents:

Constituent	Content
Zinc	7% maximum
Aluminum	2% maximum
Lead	8% maximum
Copper + Nickel + Silicon	83% minimum

2.07 VALVE ACTUATING MECHANISM

- A. The valve actuating mechanism shall be of the type tabulated below and shall impart rotary movement to the ball:
 - 1. Manually Actuated: As noted on the drawings.
- B. Provide a ball shaft support bearing on the cover.
- C. Materials of the valve actuating mechanism subject to rubbing shall be of different hardness. The valve actuating mechanism shall be capable of being inspected, lubricated, removed, and repaired without removing the valve from the connecting piping. Provide the actuator with a pointer-type position indicator device, which shall indicate ball position during manual operation of the valve.

2.08 LUBRICANT FOR STAINLESS STEEL BODY BOLTS AND NUTS

See Section 400500.

2.09 BOLTS AND NUTS FOR FLANGED VALVES

See Section 400500.

2.10 GASKETS FOR FLANGES

Gaskets for flanged end valves shall be as described in the detail piping specifications.

2.11 PAINTING AND COATING

- A. Coat metal valves located above ground or in vaults and structures in accordance with Section 099000, System No. 15 for valve in vault and System No.23 for buried service. Apply the specified prime, intermediate and finish coats at the place of manufacture. Finish coat shall match the color of the adjacent piping. Coat gear actuators and handwheels the same as the valves.
- B. Line the interior metal parts of metal valves 4 inches and larger, excluding seating areas and bronze and stainless steel pieces, per Section 099000, System No. 7. Apply lining at the place of manufacture.
- C. Line actuator housings in contact with grease per Section 099000, System No. 12.

- D. Test the valve interior lining at the factory with a low-voltage (22.5 to 80 volts, with approximately 80,000-ohm resistance) holiday detector, using a sponge saturated with a 0.5% sodium chloride solution. The lining shall be holiday free.
- E. Measure the thickness of the valve interior linings per Section 099000. Repair areas having insufficient film thickness per Section 099000.

2.12 PACKING, O-RINGS, AND GASKETS

Packing, O-rings, and gaskets shall be one of the following nonasbestos materials:

- A. Teflon.
- B. Kevlar aramid fiber.
- C. Acrylic or aramid fiber bound by nitrile. Products: Garlock "Bluegard," Klinger "Klingersil C4400," or equal.
- D. Buna-N (nitrile).
- E. Cotton impregnated with Buna-N.

PART 3 - EXECUTION

3.01 SERVICE CONDITIONS

- A. Design data for valves in throttling service shall be as follows:
- B. Valve

Seat design	Metal
Pressure rating	Class 600
Maximum flow	450 gpm
Minimum flow	0 gpm
Maximum upstream pressure	875 psig
Minimum upstream pressure	425 psig
Maximum downstream pressure	0 psig
Minimum downstream pressure	0 psig
Type of actuator	Manual

3.02 SHIPMENT AND STORAGE

- A. Identify the valves with item and serial numbers. Material shipped separately shall be identified with securely affixed, corrosion-resistant metal tags indicating the item and serial number of the equipment for which it is intended. In addition, ship crated

equipment with duplicate packing lists, one inside and one on the outside of the shipping container.

- B. Pack and ship one copy of the manufacturer's standard installation instructions with the valves. Provide the instructions necessary to preserve the integrity of the storage preparation after the valves arrive at the jobsite and before start-up.
- C. Provide flanged openings with metal closures at least 3/16-inch thick, with elastomer gaskets and at least four full-diameter bolts. Install closures at the place of valve manufacture prior to shipping. For studded openings, use all the nuts needed for the intended service to secure closures.
- D. Provide threaded openings with steel caps or solid-shank steel plugs. Do not use nonmetallic (such as plastic) plugs or caps. Install caps or plugs at the place of valve manufacture prior to shipping.
- E. Store resilient seated valves in sealed polyethylene plastic enclosures with a minimum of one package of desiccant inside. Store resilient seated valves in the open or unseated position. Valves with adjustable packing glands shall have the packing gland loosened prior to storage. Inspect valves at least once per week, replace desiccant if required and repair damaged storage enclosures. Do not store valves with resilient seats near electric motors or other electrical equipment.
- F. Inspect valves on receipt for damage in shipment and conformance with quantity and description on the shipping notice and order. Unload valves carefully to the ground without dropping. Use forklifts or slings under skids. Do not lift valves with slings or chain around operating shaft, actuator, or through waterway. Lift valves with eyebolts or rods through flange holes or chain hooks at ends of valve parts.
- G. Protect the valve and actuators from weather and the accumulation of dirt, rocks, and debris. Do not expose rubber seats to sunlight or ozone for more than 30 days. Also, see the manufacturer's specific storage instructions.
- H. Make sure flange faces, joint sealing surfaces, body seats, and disc seats are clean. Check the bolting attaching the actuator to the valve for loosening in transit and handling. If loose, tighten firmly. Open and close the valve to make sure it operates properly and that stops or limit switches are correctly set so that the valve seats fully. Close valve before installing.
- I. If the valves are stored or installed outside or in areas subject to temperatures below 40°F or are exposed to the weather prior to permanent installation, provide the manufacturer's recommended procedures for extended storage. Exercise each actuator from its fully open to fully closed position at least once every seven days.

3.03 INSTALLING VALVES

- A. Remove covers over flanged openings and plugs from threaded openings, after valves have been lifted off the truck and placed at the point to which it will be connected to the adjacent piping.
- B. Install valves such that the balls rotate about a horizontal axis.
- C. Bolt holes of flanged valves shall straddle the horizontal and vertical centerlines of the pipe run to which the valves are attached.
- D. Handle valves carefully when positioning, avoiding contact or impact with other equipment, vault walls, or trench walls.
- E. Clean valve interiors and adjacent piping of foreign material prior to making up valve to pipe joint connection. Prepare pipe ends and install valves in accordance with the pipe manufacturer's instructions for the joint used. Do not deflect pipe-valve joint. Do not use a valve as a jack to pull pipe into alignment. The installation procedure shall not result in bending of the valve/pipe connection with pipe loading.
- F. Provide a separate support beneath the actuator extending beyond the valve body, so that no eccentric loads are imposed on the connecting piping.
- G. Prior to assembly, coat threaded portions of stainless steel bolts and nuts with lubricant.

3.04 MOUNTING GEAR ACTUATORS

The valve manufacturer shall select and mount the gear actuator and accessories on each valve and stroke the valve from fully open to fully closed prior to shipment.

3.05 FIELD INSTALLATION OF GEAR ACTUATOR

Provide the actuator manufacturer's recommended lubricating oil in each actuator before commencing the field testing.

3.06 VALVE LEAKAGE FIELD TESTING

- A. Test valves for leakage at the same time that the connecting pipelines are tested. See Section 400515 for pressure testing requirements. Protect or isolate any parts of valves, actuators, or control and instrumentation systems whose pressure rating is less than the pressure test. Valves shall show zero leakage. Repair or replace leaking valves and retest.
- B. Perform a field hydrostatic test of each side of the ball with the ball in the closed position and the actuator fixed in the final acting position. Seat and shaft packing shall show zero leakage. Test pressure shall be same as the test pressure of the connecting pipelines.

3.07 VALVE FIELD TESTING

- A. Operate valves through three full cycles of opening and closing. Valves shall operate from fully open to fully closed without sticking or binding. If valves stick or bind, or do not operate from fully open to fully closed, repair or replace the valve and repeat the tests.
- B. Operate each valve manually from fully open to fully closed and back to fully open for one cycle. The pull required to operate handwheel-actuated valves shall not exceed 40 pounds.
- C. If actuators stick or bind or do not operate from fully open to fully closed or if pulling forces and torques exceed the values specified, repair or replace the actuators and repeat the tests.

END OF SECTION

SECTION 402001 GENERAL REQUIREMENTS FOR STEEL PIPING

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes general requirements for materials, fabrication, installation, and testing of steel pipe.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Painting and Coating: 099000.
- B. Fusion-Bonded Epoxy Linings and Coatings: 099761.
- C. Cathodic Protection and Joint Bonding: 264213.
- D. General Piping Requirements: 400500.
- E. Pressure Testing of Piping: 400515.
- F. Fabricated Steel Specials: 402050.
- G. Installation of Buried Steel or Concrete Pipe: 402051.
- H. Carbon Steel Pipe (16 Inches and Smaller): 402053.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit materials list showing material of pipe and fittings with ASTM reference and grade. Submit manufacturer's certification of compliance with referenced standards, e.g., ASTM A53, A135, and A587 and AWWA C200. Provide recertification by an independent domestic testing laboratory for materials originating outside of the United States. Show piping service (fuel oil, gasoline, water, air, etc.).
- C. For piping 6 inches and larger, submit piping layout drawings showing location and dimensions of pipe and fittings. Include laying lengths of valves, meters, in-line pumps, and other equipment determining piping dimensions. Label or number each fitting or piece of pipe and provide the following information for each item:
 - 1. Material of construction, with ASTM or API reference and grade.
 - 2. Wall thickness of steel cylinder.

3. Mortar lining thickness (if pipe has been specified to have a mortar lining).
 4. Mortar coating thickness, where mortar coating is required.
 5. Paint prime coating, where prime coat is required.
 6. Manufacturer's certificates of compliance with referenced pipe standards, e.g., ASTM A53, ASTM A135, API 5L, AWWA C200.
 7. Show weld sizes and dimensions of grooved-end collars, flanges, reinforcing collars, wrapper plates, and crotch plates.
- D. Submit coating application test records for field measuring paint coating thickness and holiday detection for each pipe section and fitting. Describe repair procedures used.

1.04 NDT QUALIFICATION

Personnel performing NDT shall meet the requirements of AWWA C200, Section 5 or shall be qualified as an AWS Certified Welding Inspector (CWI or SCWI) or shall hold a current AWS Radiographic Interpreter Certification.

PART 2 - MATERIALS

2.01 STEEL PIPE CYLINDERS

- A. The yield strength of the steel for pipe and fabricated fittings having grooved-end joints shall be minimum 35,000 psi.
- B. Provide seamless pipe or pipe having straight longitudinal weld seams where pipe passes through rubber annular sealing devices. Alternatively, grind the exterior weld seams of spiral welded pipe flush with the exterior pipe surface where the pipe passes through the rubber annular sealing devices.

2.02 FITTINGS

See Section 402050.

2.03 JOINTS

- A. Where piping connects to wall pipes, meters, valves, or other equipment, the pipe ends shall match the ends of the wall pipes, meters, valves, or equipment.

2.04 OUTLETS AND NOZZLES

- A. For outlets larger than 3 inches, use a tee with a flanged outlet.

2.05 FLANGES

- A. Forged flange material shall conform to ASTM A105, A 181, or A 182. Steel flange material shall conform to ASTM A283 (Grade C or D), A285 (Grade C), or A36.
- B. Class 600 flanges, 24 inches and smaller, with raised facings shall comply with ASME B16.5.

2.06 BOLTS, NUTS, AND GASKETS FOR FLANGES

See Section 400500.

2.07 LUBRICANT FOR STAINLESS STEEL BOLTS AND NUTS

See Section 400500.

PART 3 - EXECUTION

3.01 FABRICATION, ASSEMBLY, AND ERECTION

- A. Beveled ends for butt-welding shall conform to ASME B16.25. Remove slag by chipping or grinding. Surfaces shall be clean of paint, oil, rust, scale, slag, and other material detrimental to welding. When welding the reverse side, chip out slag before welding.
- B. Fabrication shall comply with ASME B31.3, Chapter V. Welding procedure and performance qualifications shall be in accordance with Section IX, Articles II and III, respectively, of the ASME Boiler and Pressure Vessel Code.
- C. The minimum number of passes for welded joints shall be as follows:

Steel Cylinder Thickness (inch)	Minimum Number of Passes for Welds
Less than 0.1875	1
0.1875 through 0.25	2
Greater than 0.25	3

Welds shall be full penetration.

- D. Use the shielded metal arc welding (SMAW) submerged arc welding (SAW), gas-shielded flux-cored arc welding (FCAW), or gas-metal arc welding (GMAW) process for shop welding. Use the SMAW process for field welding.
- E. Welding preparation shall comply with ASME B31.3, paragraph 328.4. Limitations on imperfections in welds shall conform to the requirements in ASME B31.3, Table 341.3.2 and paragraph 341.4 for visual examination.

- F. Identify welds in accordance with ASME B31.3, paragraph 328.5.
- G. Clean each layer of deposited weld metal prior to depositing the next layer of weld metal, including the final pass, by a power-driven wire brush.
- H. Welding electrodes for carbon steel piping shall comply with AWS A5.1, A5.17, A5.18, A5.20, or A5.23. Carbon steel flux cored wire shall have a maximum boron content of 0.006%.

3.02 REINFORCEMENT FOR SPECIALS

See Section 402050.

3.03 SHOP TESTING OF FABRICATED OR WELDED COMPONENTS

- A. After completion of fabrication and welding in the shop and prior to the application of any lining or coating, test each component according to the referenced standards. Test the seams in fittings that have not been previously shop hydrostatically tested by the dye penetrant method as described in ASME Boiler and Pressure Vessel Code Section VIII, Appendix 8 and Section V, Article 6. In lieu of the dye penetrant method of testing, completed fittings may be hydrostatically tested. Use the field hydrostatic test pressure or 125% of the design pressure, whichever is higher.
- B. Test Method Requirements - Shop:
 - 1. Test each section of steel pipe with the joint rings attached in the shop by the hydrostatic test method.
 - 2. Test each section of pipe with manholes and outlets and wyes attached after completion of the shop hydrostatic test as follows:
 - a. For d/D greater than 0.30, where d is nominal diameter of the outlet and D is nominal diameter of main pipeline, test section by the hydrostatic method plus soap and compressed air method at the collar.
 - b. For d/D less than 0.30, test the collar by the soap and compressed air method.
 - 3. Assemble and retest flanged insulating joints by the hydrostatic test method. Test for electrical conductivity across joint.
 - 4. Perform tests of production welds in carbon steel piping in accordance with AWWA C200 for each heat of steel used. Perform at least one set of welding tests as described in AWWA C200, Section 4.11.5 for each 1,000 lineal feet of spiral seam weld in addition to tests specified in Section 4.11.6 of the same standard.
 - 5. A guided-bend test specimen shall be considered as having passed only if no crack or other open defect exceeding 1/8 inch measured in any direction is present in the

weld metal or heat affected zone of the base material after the bending. A tension test specimen shall be considered as having passed only if failure occurs in the base metal at a stress in excess of the minimum specified tensile strength.

6. Inspect welds in the expanded portion of the pipe bell in accordance with the magnetic particle test.
7. Test outlet reinforcing collars, wrapper plates, each slip-on flange, and grooved-end coupling collars by the soap and compressed air method.
8. Test backgouge and completed weld of manual process groove welds by the liquid penetrant method. Test completed fillet welds by the liquid penetrant method.
9. Perform 100% ultrasonic testing (where appropriate for such testing) or liquid penetrant testing on manual process circumferential welds and welds at collars and risers.
10. Perform radiographic testing on 20% of the circumferential welds of fabricated bends and reducers, including junctions between circumferential and longitudinal welds.
11. Test the longitudinal welds of the bell and spigot of each section of steel pipe or fabricated steel cylinder that is to be field welded by the magnetic particle test method.

3.04 PRODUCT MARKING

Plainly mark each length of straight pipe and each special and fitting at the bell end to identify the design pressure or head, the steel wall thickness, the date of manufacture, and the proper location of the pipe item by reference to the layout schedule. For beveled pipe, show the degree of bevel and the point on the circumference to be laid uppermost.

3.05 INSTALLING FLANGED PIPING

See Section 400500.

3.06 INSTALLATION OF STAINLESS STEEL BOLTS AND NUTS

See Section 400500.

3.07 INSTALLING GROOVED-END PIPING

See Section 400500.

3.08 INSTALLING ABOVEGROUND OR EXPOSED PIPING

See Section 400500 .

3.09 INSTALLING BURIED PIPING

- A. See Section 402051.
- B. Install in accordance with Section 312316.

3.10 FIELD HYDROSTATIC TESTING

Hydrostatically test pipe and fittings in the field in accordance with Section 400515. Painting and Coating

- A. Coat pipe located above ground or in vaults and structures in accordance with Section 099000, System No.15. Prime coat shall be shop applied.
- B. Pipe that is to be encased in concrete shall have no coating, unless shown otherwise in the drawings.

3.11 FIELD THICKNESS MEASUREMENT AND REPAIR OF PAINT COATINGS FOR STEEL PIPE

- A. Field repair shop applied prime coats per Section 099000.
- B. Test linings and coatings per ASTM G62, Method B, with a holiday detector set at 125 volts per mil coating thickness. Repair holidays and pinholes by applying the prime, intermediate, and finish coatings to each holiday or pinhole and retest.
- C. Measure the lining and coating thickness on each pipe section using a calibrated coating thickness gauge. Make five separate spot measurements (average of three readings) spaced evenly over every 15 linear feet (or fraction thereof) to be measured. Make three gauge readings for each spot measurement of either the substrate or the paint. Move the probe a distance of 1 to 3 inches for each new gauge reading. Discard any unusually high or low gauge reading that cannot be repeated consistently. Take the average (mean) of the three gauge readings as the spot measurement. The average of five spot measurements for each area shall not be less than the specified thickness. No single spot measurement in any area shall be less than 80%, or more than 120%, of the specified thickness. One of three readings that are averaged to produce each spot measurement may underrun by a greater amount. If a section of the pipe, item, or piece of equipment does not meet these criteria, remove the entire lining or coating and recoat the entire item or piece of equipment.
- D. Thickness determination shall meet the following requirements:
 - 1. No individual reading shall be below 75% of specified thickness.
 - 2. Individual spot readings (consisting of three point measurements within 3 inches of each other) shall have an average not less than 80% of specified thickness.

3. The average of all spot readings shall be equal to or greater than nominal thickness specified.
- E. Thickness determinations shall be conducted using a Type 1 magnetic thickness gauge as described in SSPC PA2 specification.
 - F. If the item has an insufficient film thickness, clean and topcoat the surface with the specified finish coatings to obtain the specified coverage. Sandblast or power-sand visible areas of chipped, peeled, or abraded coating, feathering the edges. Then coat in accordance with the specifications. Work shall be free of runs, bridges, shiners, laps, or other imperfections.

END OF SECTION

SECTION 402051 INSTALLATION OF BURIED STEEL OR CONCRETE PIPE

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes emplacement of pipelines fabricated of steel and pipe bedding, pipeline closures, connections, and encasement.

1.02 RELATED WORK DESCRIBED ELSEWHERE

- A. Cathodic Protection and Joint Bonding: 264213.
- B. Trenching, Backfilling, and Compacting: 312316.
- C. Jacked Steel Casing: 317216.
- D. General Piping Requirements: 400500.
- E. Pressure Testing of Piping: 400515.
- F. General Requirements for Steel Piping: 402001.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with "Data to be Furnished by the Contractor – Submittals".
- B. Submit installation methods for pipes to be installed in tunnels and casings.
- C. Submit weld procedure specifications, procedure qualification records, and welder qualification certificates.

PART 2 - MATERIALS

2.01 PIPE MATERIAL

Refer to the section on pipe by type.

2.02 BOLTS AND NUTS FOR FLANGES

See Section 400500.

2.03 GASKETS FOR FLANGES

See Section 400500.

PART 3 - EXECUTION

3.01 DELIVERY AND TEMPORARY STORAGE OF PIPE AT SITE

- A. Deliver the pipe alongside the pipelaying access road over which the pipe trailer-tractors can travel under their own power. Place the pipe in the order in which it is to be installed as estimated from station stakes at approximately 100-foot intervals and secure it from rolling.
- B. Transport pipe to the jobsite on padded bunks with nylon tie-down straps to protect the pipe.
- C. Store pipe on earth berms or timber cradles adjacent to the trench in the numerical order of installation.

3.02 HANDLING OF PIPE

- A. Lift pipes with spreader beams or wide belt slings or as recommended by the pipe manufacturer. Do not use cable slings or chains directly bearing on the pipe. Lift pipes at two points, at approximately 1/3 to 1/4 of the pipe length from the pipe ends.

3.03 SANITATION OF PIPE INTERIOR

- A. During laying operations, do not place tools, food, clothing, trash, or other materials in the pipe.
- B. When pipelaying is not in progress, including the noon hour, close the ends of the pipe with a vermin- and child-proof plug.

3.04 PLACEMENT OF PIPE IN TRENCH

- A. Control water in trench per Section 312316.
- B. Lay pipes uphill if the grade exceeds 10%.
- C. Excavate below the subgrade as shown in the drawings. If in rock, complete excavation to a uniform foundation free of protruding rocks. Complete stabilization of foundation, per Section 312316, then place material specified for the bedding in Section 312316 to bring the trench bottom to grade.
- D. Place and compact the bedding as detailed in the drawings.
- E. Cut a depression to accommodate the pipe bell and spaces to permit removal of the pipe handling slings.
- F. Lay each section of pipe in the order and position shown on the installation schedule. Lower the pipe onto the bedding and install it to line and grade along its full length on firm bedding, except at the bell and at the sling depressions. Tolerances on grade are 1/4 inch. The tolerance on line is 1 inch.

- G. When installing beveled pipe, do not deviate from the pipe top mark by more than 2 inches from the vertical line passing through the pipe center.
- H. Elongate the vertical diameter of welded steel pipe 1%. Do not remove the stulls until the backfill is complete.

3.05 FLANGED CONNECTIONS

- A. Lubricate nuts and bolts per Section 400500 prior to installation.
- B. Coat flanges and bolts and nuts per Section 099000, System No 23.

3.06 FIELD WELDED JOINTS

- A. Provide welded joints where detailed in the drawings.
- B. Field welding and welder's qualification shall be in accordance with AWWA C206 except as modified herein. Welder's qualification shall be in accordance with Section IX, Part QW, of the ASME Boiler and Pressure Vessel Code. Any welder performing work shall have been qualified for the process involved within the past three years.
- C. Where interior joint welds are detailed in the drawings, backfill to 1 foot over the pipe except at the joints. Complete the interior weld prior to filling the outside joint recess with cement mortar.
- D. If joint rings are rusted or pitted where weld metal is to be deposited, clean them by wire brushing or sand blasting.
- E. Preheat the joints to be welded where required in accordance with Table 1 of AWWA C206.
- F. Complete each pass around the entire circumference of the pipe before commencing the next pass. Use the electrodes recommended by the pipe fabricator. Do not deposit more than 1/8 inch of throat thickness per pass.
- G. Do not heat the concrete adjacent to the joint rings.
- H. Clean each layer of deposited weld metal prior to depositing the next layer of weld metal, including the final pass, by a power-driven wire brush.
- I. Provide closure lap joints at intervals of approximately 500 feet either by lengthening the bell to provide 3 inches of longitudinal adjustment beyond the normal lap-joint requirements or by using a butt strap. Set the special closure lap joints so that the pipe will be stabbed deeper than the normal closed position to such an extent that upon cooling and contraction of the pipe, the final closure-joint weld may be made at the approximate normal closed position. Weld all joints either side of the closure joints. Weld the closure joints during the coolest hour of the 24-hour day. When possible, the

closure-joint welds shall be made when the steel temperature is approximately equal to the lowest operating temperature.

3.07 PIPELINE CLOSURE ASSEMBLIES

- A. Field trimming of pipe when approved by the Owner's Representative shall be normal to the axis of the pipe only.
- B. Employ pipeline closure assemblies to connect sections of pipeline laid from opposite directions and to adjust the field length of the pipeline to meet structures, other pipelines, and points established by design stations. Select either follower ring design or butt strap design. Install follower ring closures as recommended by the pipe manufacturer.

3.08 COMPLETION OF INSIDE FUSION-BONDED EPOXY FOR PIPES 24 INCHES IN DIAMETER AND SMALLER

- A. After the carrier pipe has been placed in the casing, the contractor shall clean and recoat with fusion bonded epoxy the interior of the pipe. Contractor shall utilize robotic equipment such as that manufactured by CRTS, Inc, or equal. CRTS: 1807 N. 170th E Avenue, Tulsa, OK 94116, Telephone number 918.877.5210, www.coatingrobotics.com.
- B. Clean and vacuum each weld prior to recoating. Inspect each weld joint using the on board camera to ensure the proper level of cleanliness.
- C. Heat and apply fusion-bonded epoxy each cleaned joint according to epoxy manufacturers' recommendation.
- D. Inspect each recoated joint by measuring the dry film thickness. Dry film thickness shall be equal to shop applied thickness +/- 25%.
- E. Perform high voltage holiday inspection. Final coating shall be free of pin holes and other defects.

3.09 PIPE EMBEDMENT

Provide sufficient space along each side of the pipe and the trench wall to observe that the embedment material fills all spaces below pipe spring line under the pipe haunches.

3.10 PLACEMENT OF PIPE IN TUNNELS AND CASINGS

- A. Join one section of pipe at a time. Do not damage pipe by dragging or sliding on concrete or asphalt. Use pipeline casing insulators or dollies to move pipe through casing.
- B. Block each section of pipe to prevent uplift and to ensure required line and grade. Do not encroach on specified minimum annular space between pipe and tunnel or casing. Do not obstruct between rails, where used, and between pipe and tunnel floor to permit

concrete to fill all spaces. Do not allow contact between exposed metal of pipe and metal casing or liner plates.

- C. Backfill the casing with sand.

END OF SECTION

SECTION 402053 CARBON STEEL PIPE (16 INCHES AND SMALLER)

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and installation of carbon steel pipe and fittings 16 inches in diameter and smaller for water, service with a maximum design pressure of 750 psi.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Painting and Coating: 099000.
- B. Fusion Bonded Epoxy: 099761
- C. Trenching, Backfilling, and Compacting: 312316.
- D. General Piping Requirements: 400500.
- E. Pressure Testing of Piping: 400515.
- F. General Requirements for Steel Piping: 402001.

1.03 SUBMITTALS

Submit shop drawings in accordance with Section 402001.

PART 2 - MATERIALS

2.01 PIPE

- A. Pipe shall be black carbon steel conforming to ASTM A106, Grade B, Seamless; A nondestructive electric test per the previously cited ASTM pipe specifications may be substituted for the hydrostatic test.
- B. Pipe 4 inches and smaller shall be standard weight per ASME B36.10.
- C. See Section 402001 for additional requirements.

2.02 THREADED NIPPLES

Use same material as the pipe. Threads shall conform to ASME B1.20.1.

2.03 FITTINGS

- A. Fittings 4 inches and smaller shall be Class 600, threaded, malleable iron (ASTM A47 or A197) conforming to ASME B16.3.

- B. Fittings for buried pipe larger than 3 inches shall be flanged or butt-welded, conforming to ASME B16.9. Material shall conform to ASTM A234, Grade WPB. Wall thickness shall be the same as the pipe as a minimum.
- C. Fittings for aboveground, exposed, or submerged pipe larger than 3 inches shall be flanged, conforming to ASME B16.9 or butt-welded conforming to ASME B16.9. Wall thickness shall be the same as the pipe as a minimum.
- D. Material for flanged steel fittings shall conform to ASTM A234, Grade WPB. Wall thickness shall be the same as the pipe.

2.04 JOINTS

- A. Joints for pipes 3 inches and smaller shall be threaded, malleable iron (ASTM A47 or A197), Class 600, conforming to ASME B16.3; or steel, conforming to ASTM A865 (black).
- B. Joints for buried pipe larger than 3 inches shall be butt-welded except where shown as flanged on the drawings.
- C. Joints for aboveground, exposed, or submerged pipe larger than 3 inches shall be flanged or butt-welded.
- D. Do not field weld to join pipe and fittings that have been factory coated or lined with epoxy or polyurethane unless the lining or coating has been held back from the joint for welding purposes. If connections in addition to those shown in the drawings are required to field join pieces use flanged.

2.05 OUTLETS AND NOZZLES

See Section 402001.

2.06 THREAD LUBRICANT

Use Teflon thread lubricating compound or Teflon tape.

2.07 FLANGES

- A. Provide weld-neck flanges (conforming to ASME B16.5) for piping 3 inches and smaller to connect to flanged valves, fittings, or equipment. Provide weld-neck where shown on the drawings. Slip-on flanges or weld neck flanges may be used if type of flange is not shown on the drawings for piping larger than 3 inches. Slip-on flanges shall be double welded per ASME B31.3. Flanges shall match the connecting flanges on the adjacent fitting, valve, or piece of equipment. Flange material shall conform to ASTM A105, A181, or A182. Flanges shall be flat face.

B. Pressure class of the flanges shall be as shown on the drawings.

2.08 BOLTS AND NUTS FOR FLANGES

See Section 400500.

2.09 LUBRICANT FOR STAINLESS STEEL BOLTS AND NUTS

See Section 400500.

2.10 GASKETS FOR FLANGES

See Section 400500

2.11 TAPE WRAPPED EPOXY COATED PIPE

See Section 099000.

PART 3 - EXECUTION

3.01 FABRICATION, ASSEMBLY, AND ERECTION

See Section 402001.

3.02 INSTALLING THREADED PIPING

Ream, clean, and remove burrs from threaded piping before making up joints. Apply thread lubricant to threaded ends before installing fittings, couplings, unions, or joints.

3.03 INSTALLING FLANGED PIPING

See Section 400500.

3.04 INSTALLATION OF STAINLESS STEEL BOLTS AND NUTS

See Section 400500.

3.05 INSTALLING GROOVED-END PIPING

See Section 400500.

3.06 INSTALLING ABOVEGROUND OR EXPOSED PIPING

See Section 400500.

3.07 INSTALLING BURIED PIPE

A. Install in accordance with Section 312316 and as follows.

3.08 FIELD PRESSURE TESTING

See Sections 402001 and 400515.

3.09 PAINTING AND COATING

- A. Line and coat piping 2 inches and larger with fusion-bonded epoxy per Section 099761 except as specified in subsection B below.
- B. Coat piping located above ground or in vaults and structures per Section 099000, System No. 15. Apply prime coat at shop.
- C. Coat buried epoxy coated piping per Section 099000, System No. 25.
- D. Coat buried flanges with wax tape coating per Section 099752.
- E. See Section 402001 for additional requirements.

3.10 COATING BURIED AND SUBMERGED BOLTS, NUTS, AND TIE RODS

See Section 402001.

3.11 FIELD MEASURING PAINT COATING THICKNESS

See Section 402001.

END OF SECTION

Attachment C

Brian Sandoval
Governor



James R. Wells, CPA
Interim Director

Gustavo "Gus" Nunez
Administrator

Carson City Offices:
Public Works Section
515 East Musser Street, Ste. 102
Carson City, Nevada 89701-4263
(775) 684-4141 | Fax (775) 684-4142

Buildings & Grounds Section
(775) 684-1800 | Fax (775) 684-1821

STATE OF NEVADA
DEPARTMENT OF ADMINISTRATION
Public Works Division

Las Vegas Offices:
Public Works Section
1830 East Sahara, Ste. 204
Las Vegas, Nevada 89104-3739
(702) 486-5115 | Fax (702) 486-5094

Buildings & Grounds Section
2621 East Sahara Avenue
Las Vegas, Nevada 89104-4136
(702) 486-4300 | Fax (702) 486-4308

MEMORANDUM

Date: July 17, 2015

To: File

From: Jerry Walker, Water Systems Manager

Subject: Brief History Marlette Water System High Pressure Siphon
Located under Hwy I-580

1875- The high pressure siphon that currently travels directly under Highway I-580 at Lakeview and Hobart was installed in 1875. The water line is part of the Marlette Water System operated by the State of Nevada. Pursuant to Nevada Revised Statute, the water line provides the sole source of water for Virginia City, Silver City and Gold Hill. The water line currently operates at 700psi. (See Exhibit A - Map of the Marlette Water System- East and West Sides of I-580).

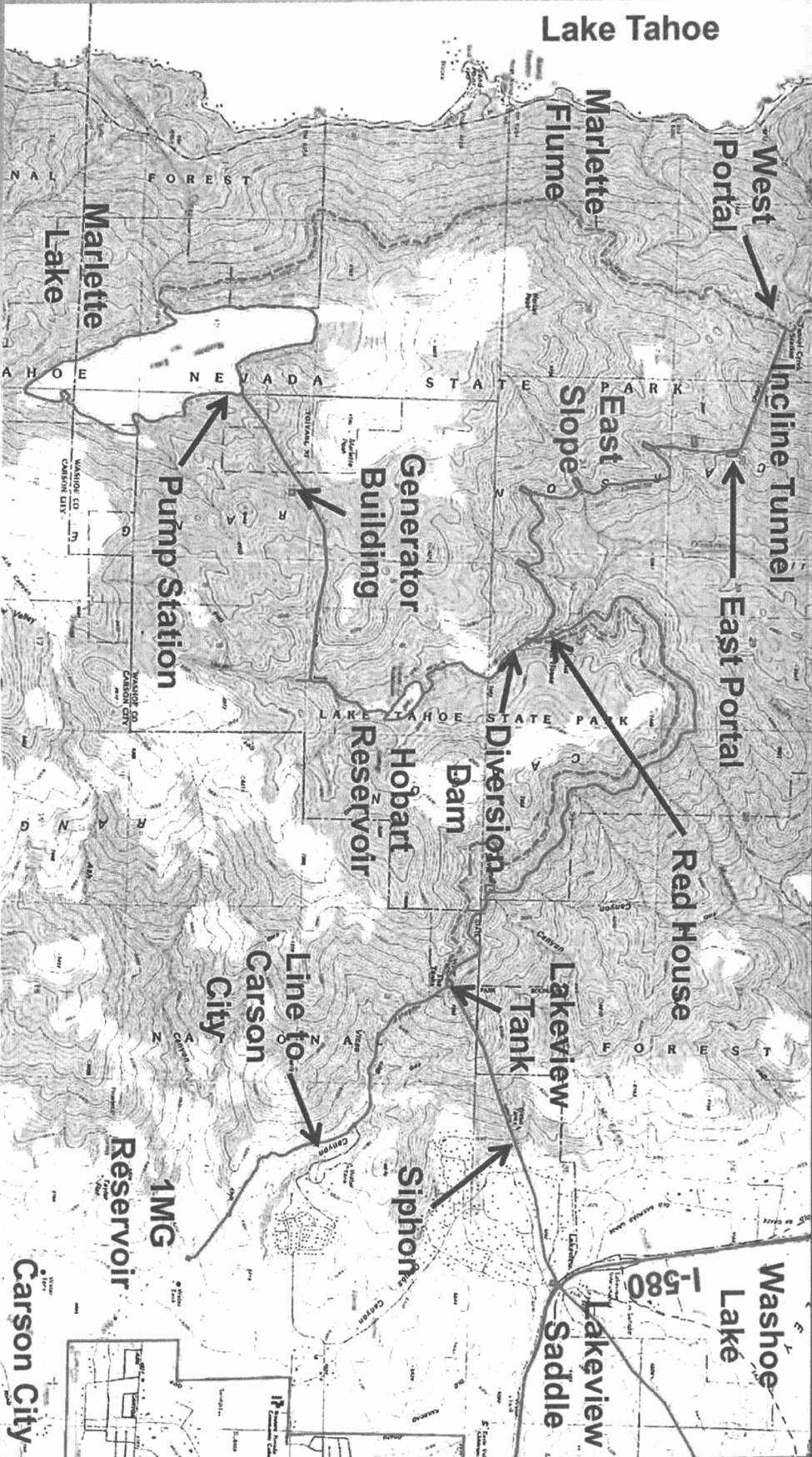
1963- NDOT Plan and Profile of State Highway project F 003-2 (14) approved February 11 1963. Identified on index sheets 21-22 10" water line was to be addressed. The plans called for boring and sleeving the pressure siphon/pipe section that is located under the highway. As we discuss later this work was never performed leaving this pressure pipe vulnerable to failure due to its location directly under the highway and the use of inappropriate backfill during more recent NDOT construction at this location. Please keep in mind, this pipeline maintains a pressure of approximately 670 to 700 psi 24 hours a day, 7 days a week, and 365 days a year. (See Exhibit B - Project F 003-2 (14) NDOT Plans).

2006- A leak was noticed on the east side of the highway at the fog line. When the leak was excavated we discovered large rocks, asphalt, dirt and unscreened fill were used as backfill. In addition to the hole, there are a number of dents in the pipe and the leak itself was caused by the inappropriate backfill as evidenced by the depression in the pipe at the leak location. The leak and other dents in the pipe were repaired with several ¼ inch plates welded to the pipe. (Exhibit C - Photos)

April 2012 – Another separate failure to this water line approximately 100 yards east of the highway. The water line opened a 2' split and created significant damage to property above the highway on Duck Hill. (See Exhibit D - Photos)

Exhibit A

Marlette Water System



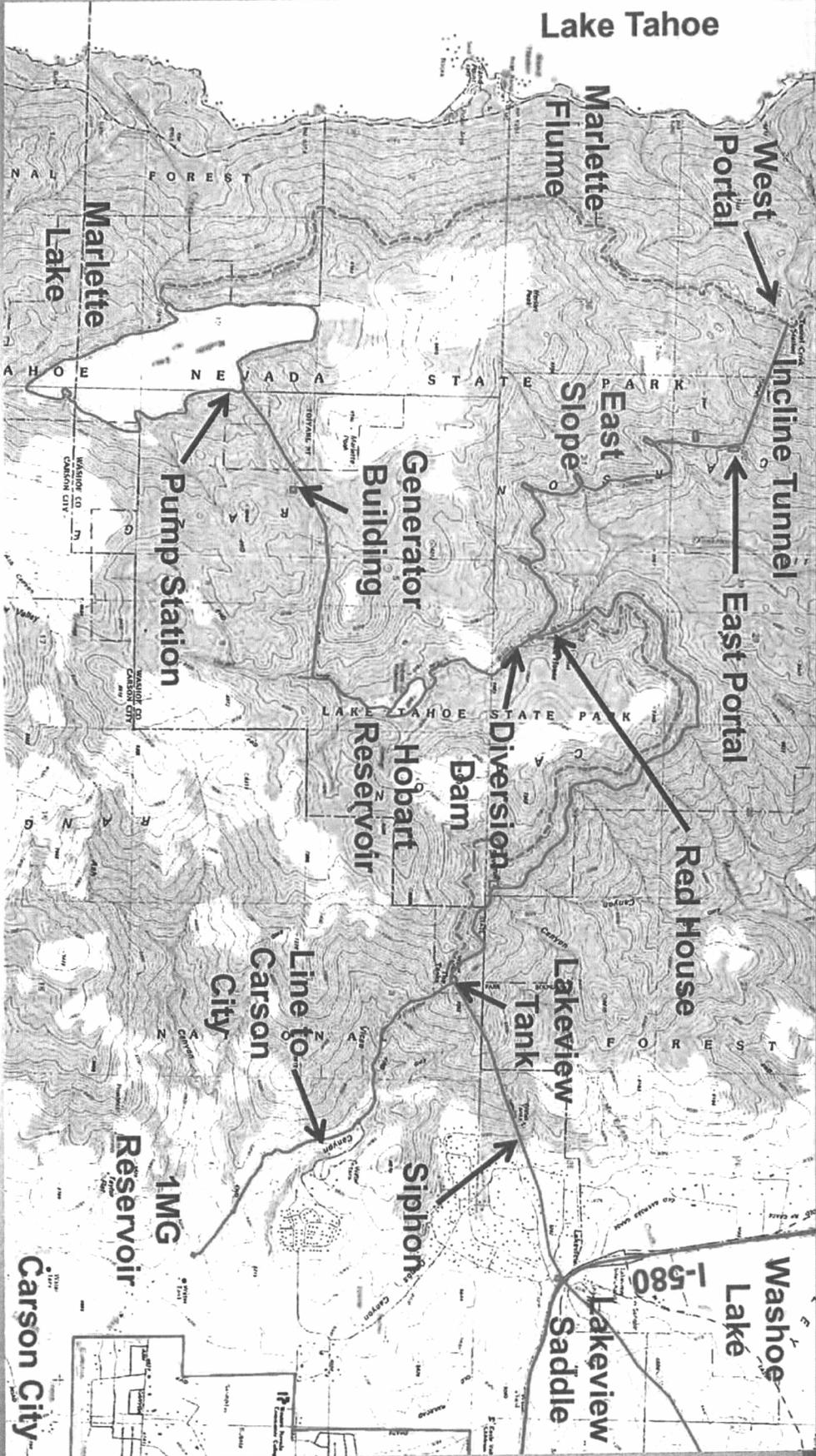
Marlette Side (West of I-580)

March 17, 2015

Nevada Rural Water Association

FARR WEST
ENGINEERING

Marlette Water System



Marlette Side (West of I-580)

March 17, 2015

Nevada Rural Water Association

FARR WEST
ENGINEERING

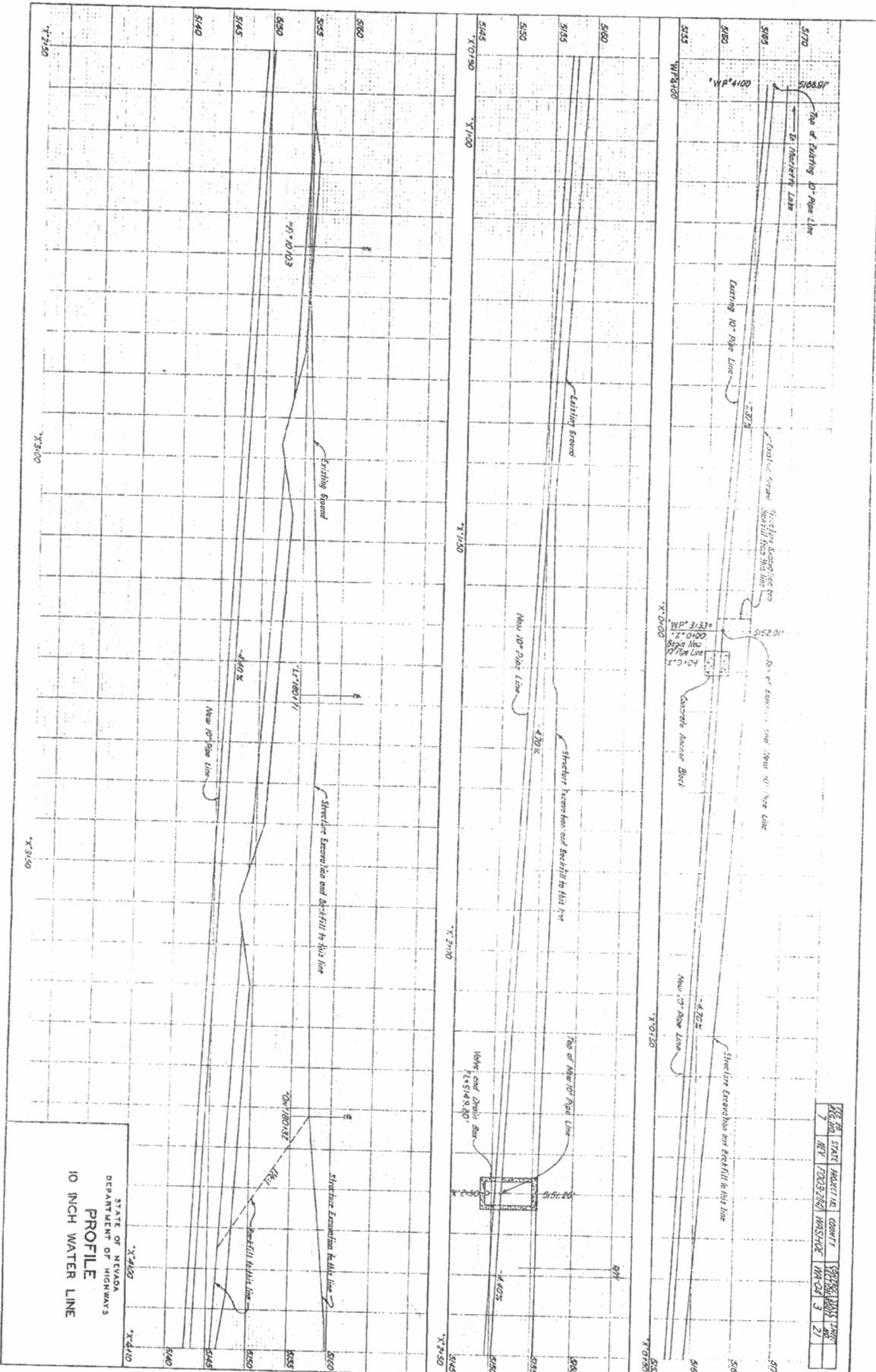
Exhibit B



Map
 For additional Topography
 See Sheet No 10

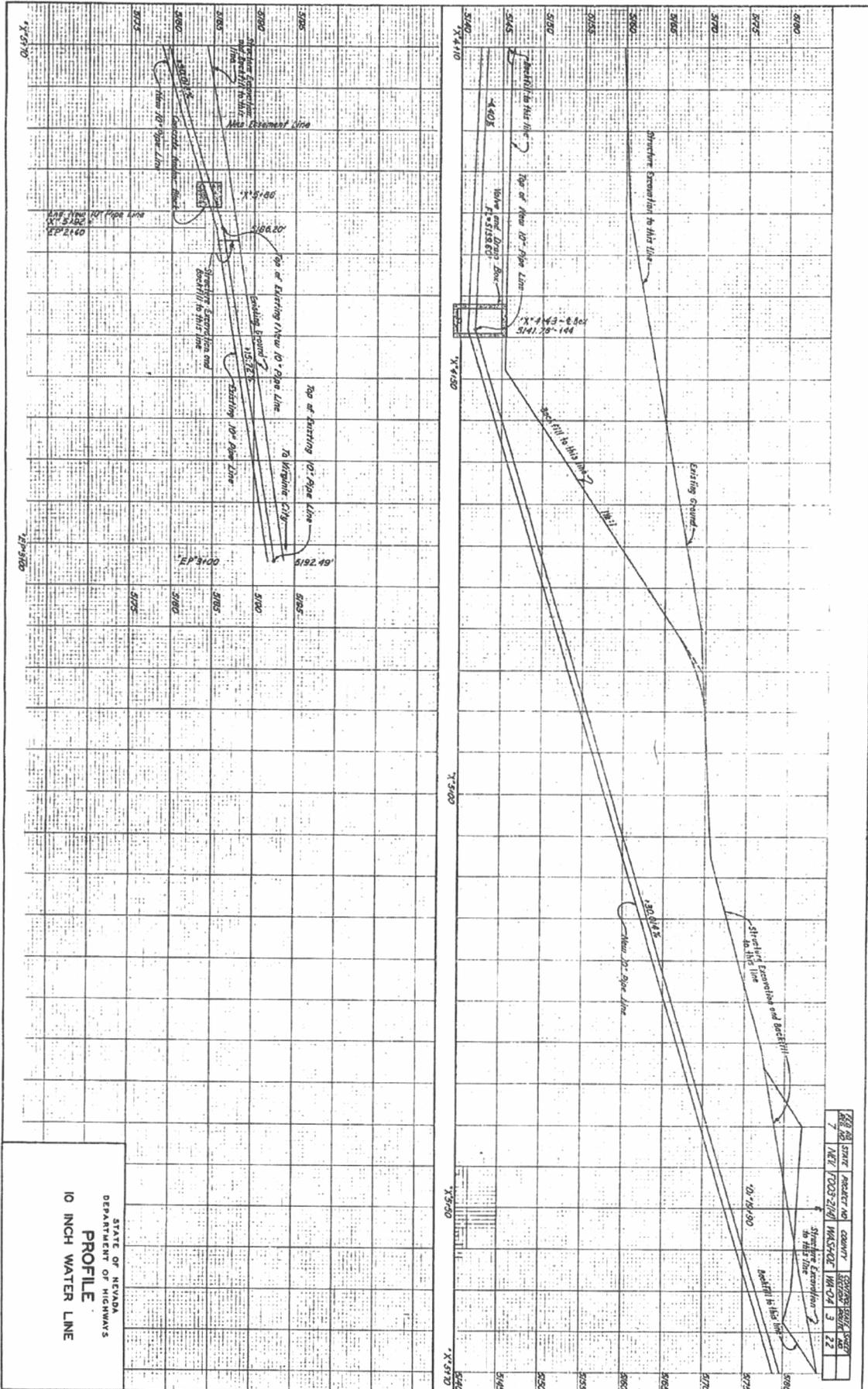
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BY	J. W. SMITH	DATE	01-20-24	NO. OF SHEETS	3
CHECKED BY	J. W. SMITH	DATE	01-20-24	NO. OF SHEETS	3
APPROVED BY	J. W. SMITH	DATE	01-20-24	NO. OF SHEETS	3

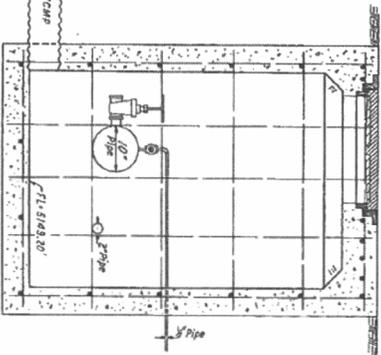
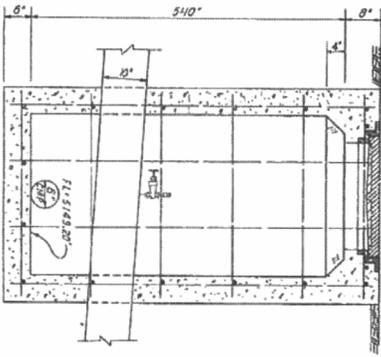
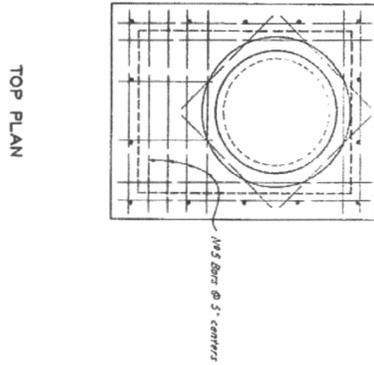
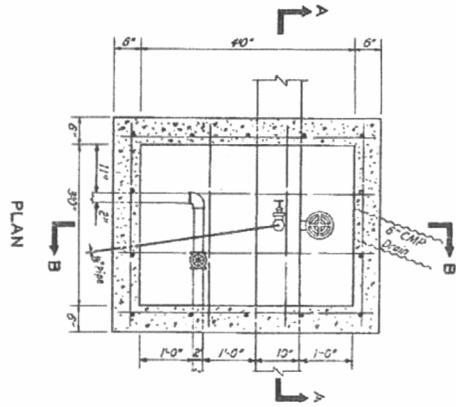
STATE OF FLORIDA
 DEPARTMENT OF HIGHWAYS
 PROJECT NO. 2024-001
 SHEET NO. 3



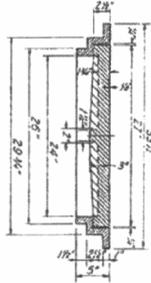
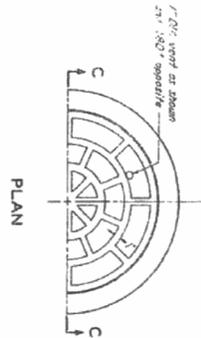
7	STATE	WAGNER	COUNTY	SPRING VALLEY
7	REV	2003-2162	WASH STATE	ENR-CA 3 21

STATE OF NEVADA
 DEPARTMENT OF HIGHWAYS
PROFILE
 10 INCH WATER LINE

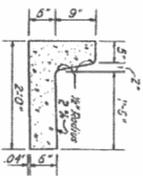




SECTION A-A
VALVE AND DRAIN BOX
SECTION B-B



SECTION C-C
MANHOLE COVER AND FRAME

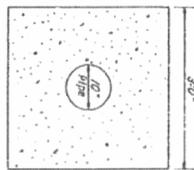


SECTION
SPECIAL CURB AND GUTTER
For Sizing See Structure List

- GENERAL NOTES**
1. All concrete shall be Class A.
 2. All reinforcing steel shall be highly wired and embedded 1" clear of concrete surface. All reinforcement shall be lap spliced at 18" centers except as noted.
 3. Exposed edges of concrete shall be chamfered by using one inch triangular mauling in forms.
 4. For valve, pipe, and fitting specifications, see Special provisions.



SECTION



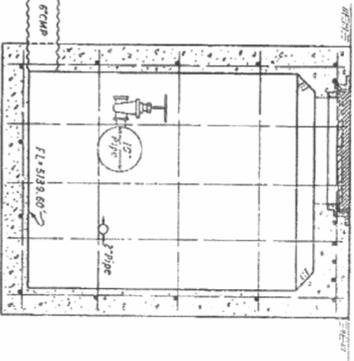
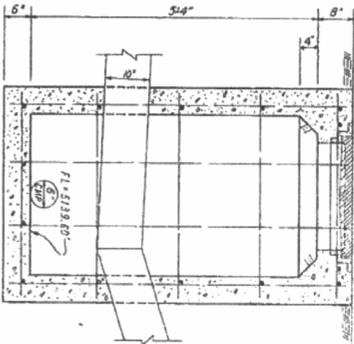
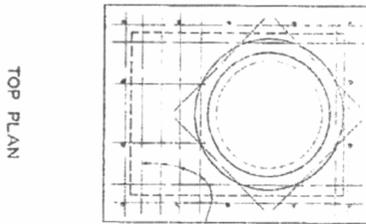
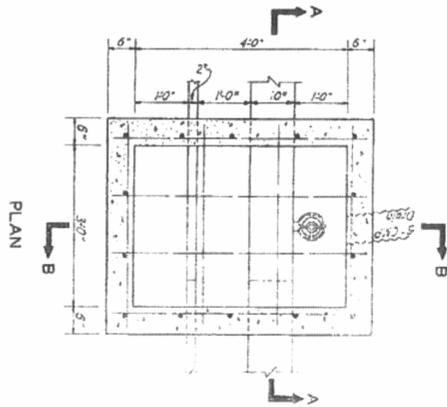
SECTION
ANCHOR BLOCK

Note: Concrete Anchor Blocks to be placed on new 18" pipe line approximately 6' from connection with present 18" pipe line. See Sheets No 15, 21 and 22.

PROJECT	1939-2161, WASHOE
DATE	MAR 23 1939
SHEET	5 OF 53

SPECIAL DETAILS

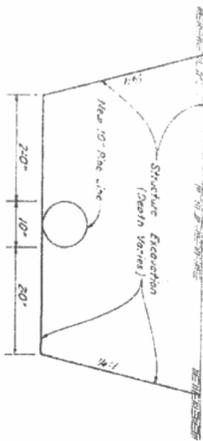
STATE OF NEVADA
DEPARTMENT OF HIGHWAYS



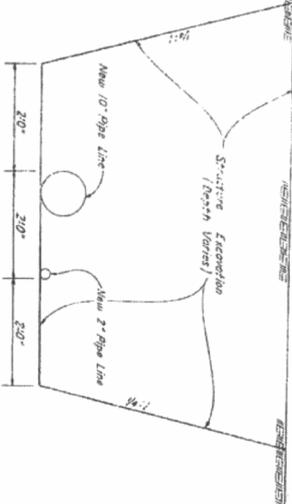
SECTION A-A
VALVE AND DRAIN BOX

SECTION B-B

X-4143



SECTION
TRENCH FOR PIPE LINE



SECTION
TRENCH FOR PIPE LINE

GENERAL NOTES

1. All concrete shall be Class AA.
2. All reinforcing steel shall be tightly lapped and embedded 1' clear of concrete surface. All reinforcing steel shall be #4 bars with maximum space of 18" centers except as noted.
3. Exposed edges of concrete shall be chamfered.
4. See notes on program meeting in forms.
5. See notes on pipe and fitting specifications, etc.
6. See notes on Special Provisions.
7. See Materials Form and Form (See Sheet 19 65).

SPECIAL DETAILS

STATE OF NEVADA
DEPARTMENT OF HIGHWAYS

PROJECT	CONTRACT	SHEET
2003-2004 WASHIZO	100-08	3
DATE	SCALE	BY

NOTE NO.	STATION	DESCRIPTION	Structure List
101	1+00	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+00 TO 1+10.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	Structure Expansion Backfill Drainage Excavation V-Ditches Remove Headwalls Remove Culvert Pipe Pile Culvert Pipe 6" C.M.P. 12" C.M.P. 18" C.M.P. 24" C.M.P. 18 Gage 24" C.M.P. 18 Gage 36" C.M.P. 28"x18" C.M.A.P. 36"x22" C.M.A.P. 58"x35" C.M.A.P. 12" Perforated Underdrain Drain Backfill 12" Conduit Remove Trees Remove Stumps Metal Pile Splices Driving Steel Shell for Piles Furnish Steel Shell for Piles Standard Bridge Roll, Type H Class AA Concrete (Piling) Class AA Concrete Reinforcing Steel Structural Steel Girdes Class AA Concrete Curb Class AA Concrete Curb & Gutter Castings Pneumatically Placed Conc. Mortar 60 Standard Steel Cattle Guard 66 Standard Steel Cattle Guard Remove Cattle Guard Remove 10" Pipe 2" Steel Pipe Pipe Supports 10" Steel Pipe Remove Bitum- inous Surface
102	1+10	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+10 TO 1+20.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
103	1+20	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+20 TO 1+30.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
104	1+30	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+30 TO 1+40.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
105	1+40	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+40 TO 1+50.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
106	1+50	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+50 TO 1+60.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
107	1+60	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+60 TO 1+70.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
108	1+70	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+70 TO 1+80.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
109	1+80	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+80 TO 1+90.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
110	1+90	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 1+90 TO 2+00.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
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135	4+40	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 4+40 TO 4+50.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
136	4+50	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 4+50 TO 4+60.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
137	4+60	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 4+60 TO 4+70.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
138	4+70	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 4+70 TO 4+80.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
139	4+80	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 4+80 TO 4+90.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
140	4+90	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 4+90 TO 5+00.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
141	5+00	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+00 TO 5+10.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
142	5+10	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+10 TO 5+20.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
143	5+20	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+20 TO 5+30.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
144	5+30	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+30 TO 5+40.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
145	5+40	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+40 TO 5+50.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
146	5+50	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+50 TO 5+60.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
147	5+60	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+60 TO 5+70.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
148	5+70	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+70 TO 5+80.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
149	5+80	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+80 TO 5+90.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85
150	5+90	REMOVE EXISTING CONCRETE CURB AND GUTTER AT STATION 5+90 TO 6+00.00. RECONSTRUCT WITH NEW CONCRETE CURB AND GUTTER. SEE PLAN FOR DETAILS.	408 85

STRUCTURE LIST

NO.	DATE	BY	CHECKED	APPROVED
1	07/02/2014	J.M.	J.M.	J.M.

ESTIMATE OF QUANTITIES

Quantities Shown are Approximate Only and are Subject to Increase or Decrease

TO BE CONTRACTED

ITEM NO.	ITEM	TOTAL	UNIT
11 0100	Signs	Lump Sum	Lump Sum
11 0400	Maintain Base	Force Account	Force Account
12 0200	Remove Trees	121	each
12 0500	Remove Stumps	7	each
13 0600	Remove Concrete Siphon	Lump Sum	Lump Sum
13 0800	Remove Culvert Pipe	2,148	lin ft
14 0360	Remove Bituminous Surface	34	sta
14 1000	Remove Fence	40,325	lin ft
14 1700	Remove Headwalls	36	each
14 1900	Remove Buildings	Lump Sum	Lump Sum
14 2700	Remove Cattle Guard	1	each
14 2800	Remove 10-inch Steel Pipe	330	lin ft
15 0100	Roadway Excavation	495,750	cu yd
15 0400	Drainage Excavation	1,190	cu yd
15 0600	V-Type Ditches	140	sta
16 0100	Borrow	153,440	cu yd
16 0100	Slope Rounding	57	sta
19 0100	Overhaul, yd Sta	2,362,400	yd sta
19 0200	Overhaul, Yd Mile	130,710	yd mi
21 0100	Structure Excavation	6,270	cu yd
22 0100	Backfill	4,430	cu yd
24 0100	Compaction	720,780	cu yd
25 0100	Water	30,220	M gal
26 0200	Furnish Later Equipment	Lump Sum	Lump Sum
30 0300	Selected Material Base	167,720	ton
34 121D	Emulsified Asphalt, Type MS-1 (Diluted)	167	ton
34 1220	Liquid Asphalt, Type MC-70	424	ton
34 4440	Sand Blotter	706	ton
35 1320	Liquid Asphalt, Type MC-250	85	ton
35 2420	Liquid Asphalt, Type SC-800	20	ton
40 4000	Asphalt Cement, 120-150 Penetration	4,952	ton
40 5500	Plantmix Surface Aggregate	34,130	ton
40 5600	Open Graded Plantmix Surface Aggregate	3,420	ton
40 5700	Plantmix Base Aggregate	44,030	ton
40 5800	Plantmix Paved Ditches	10,150	sq yd
40 5900	Plantmix Shoulder Dike	24,130	lin ft
45 0110	Class AA Concrete	824	cu yd
45 0710	Class AA Concrete (Piling)	78	cu yd
47 0100	Reinforcing Steel	180,950	lb
48 0060	Standard Bridge Rail, Type H	294	lin ft
50 0100	Furnishing Pile Driving Equipment	Lump Sum	Lump Sum
50 0500	Furnishing Steel Shell For Piles	2,560	lin ft
50 0510	Driving Steel Shell For Piles	2,560	lin ft
50 0800	Metal Pile Splices	20	each
54 0001	6-inch Corrugated Metal Pipe (Dipped)	412	lin ft
54 0101	12-inch Corrugated Metal Pipe (Dipped)	156	lin ft
54 0181	18-inch Corrugated Metal Pipe (Dipped)	350	lin ft
54 0261	24-inch Corrugated Metal Pipe (Dipped) (16 Gage)	1,974	lin ft
54 0262	24-inch Corrugated Metal Pipe (Dipped) (14 Gage)	266	lin ft
54 0342	36-inch Corrugated Metal Pipe (Dipped)	22	lin ft
54 1142	29-inch X 18-inch Corrugated Metal Arch Pipe (Dipped)	636	lin ft
54 1182	36-inch X 22-inch Corrugated Metal Arch Pipe (Dipped)	366	lin ft
54 1303	58-inch X 36-inch Corrugated Metal Arch Pipe (Dipped)	146	lin ft
53 0100	Relay Culvert Pipe	1,020	lin ft
60 2100	12-inch Perforated Underdrain	3,350	lin ft
60 3000	Drain Backfill	730	cu yd
61 0110	Type 1 Embankment Protector	13	each
61 0200	8-inch Corrugated Metal Pipe Downdrain	510	lin ft
61 0260	Slip Joint	2	each
61 0300	Anchor Assembly	47	each
62 0100	Castings	1,750	lb
62 0200	Structural Steel Grates	4,540	lb
67 0111	Class AA Concrete Curb	5	cu yd
67 0121	Class AA Concrete Curb and Gutter	520	cu yd
70 0050	Construct Type A-5B Fence	27,025	lin ft
70 0130	Construct Type A-3J2-3B Fence	21,688	lin ft
70 2030	Construct 60-inch Chain Link Fence	410	lin ft
70 4000	Reconstruct Fence	238	lin ft
70 5050	16-foot Metal Drive Gates	33	each
70 7040	4-foot Metal Walk Gates	1	each
71 0100	Standard Steel Guard Rail	12,668	lin ft
72 0110	Culvert Markers and Guide Posts	775	each
74 0100	Right of Way Markers	29	each
75 3100	Reference Monuments	59	each
77 0402	12-inch Conduit	127	lin ft
116 0400	20-foot Standard Steel Cattle Guard	4	each
116 0500	26-foot Standard Steel Cattle Guard	1	each
117 3000	Perpetuate Artesian Wells	Lump Sum	Lump Sum
119 0100	Premixed Bituminous Paving Material	334	ton
120 0100	Pneumatically Placed Concrete Mortar	8,920	sq yd
132 0200	2-inch Steel Pipe (Galvanized)	510	lin ft
132 1000	10-inch Steel Pipe (Tarred and Wrapped)	599	lin ft
132 9000	Adjust Water Line and Tank	Lump Sum	Lump Sum
132 9100	Pipe Supports	11	each

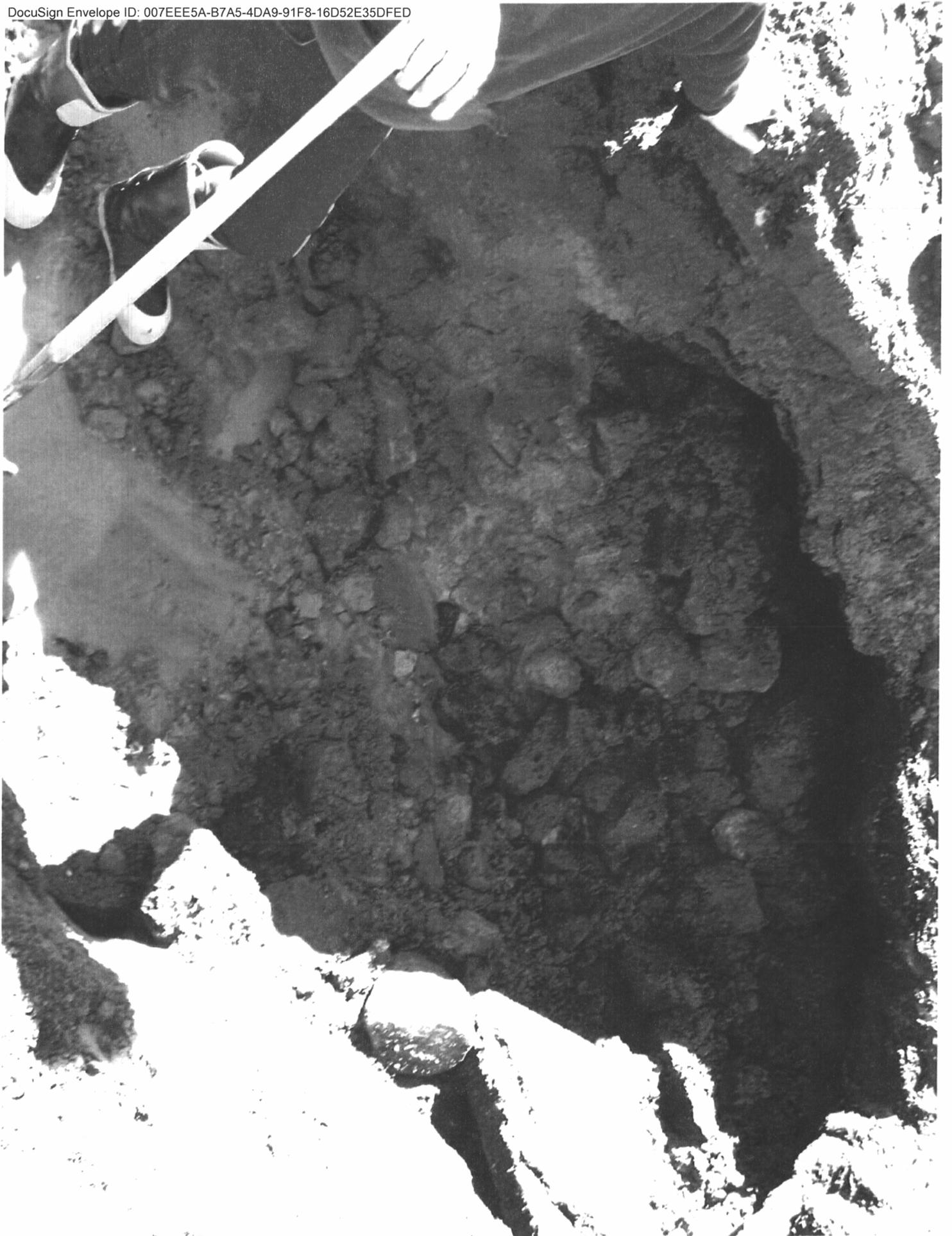
TO BE PERFORMED BY UTILITY COMPANIES: Sierra Pacific Power Co., move poles; Bell Telephone Co., move poles and adjust cable line.

FED. NO.	STATE	PROJECT NO.	COUNTY	CENTRAL SECTION	STATE SHEET NO.	TOTAL SHEETS
7	NEVADA	FOO3-2 (M)	ORMSBY	OR-05	3	30
WASHOE WA-04						

Exhibit C



2006





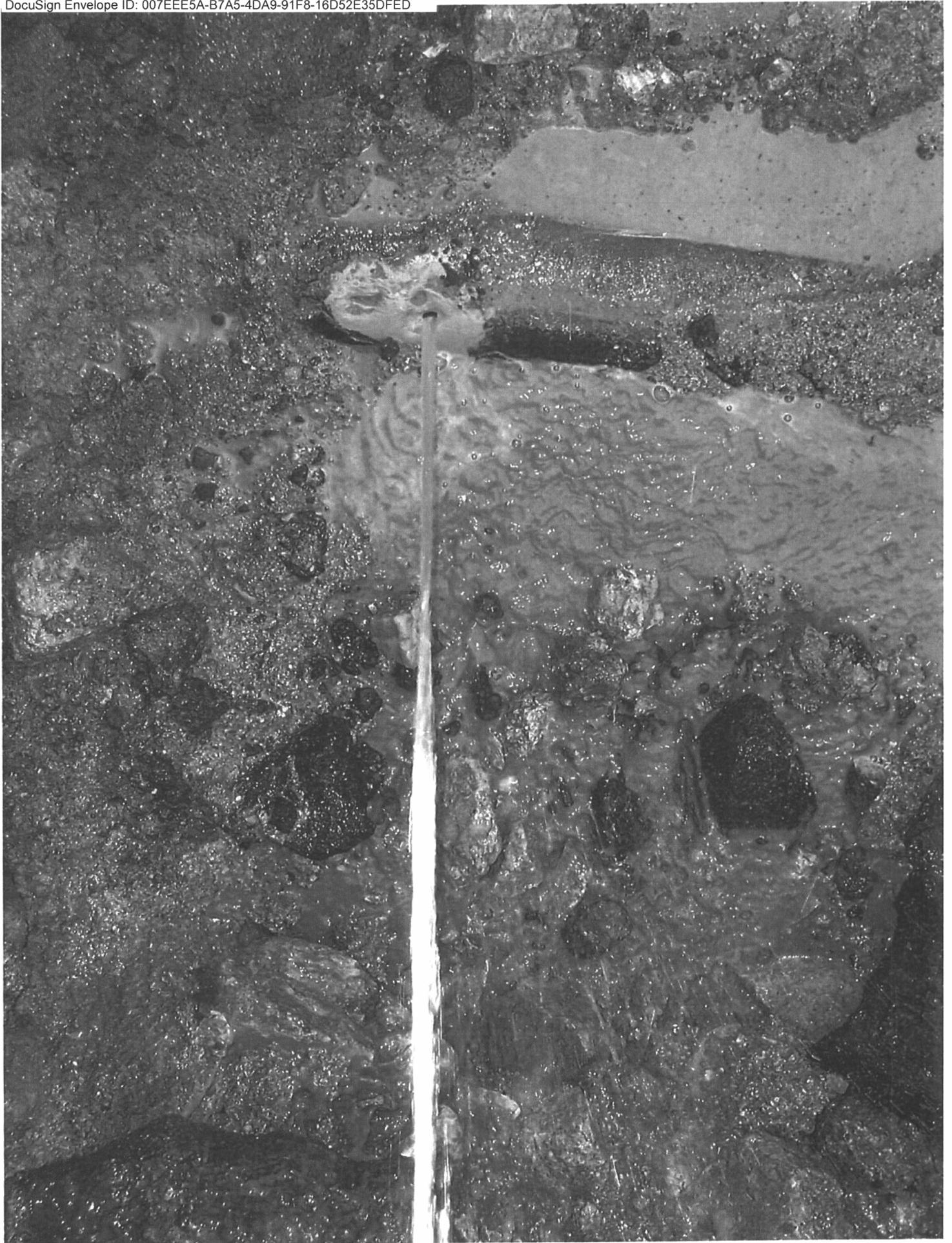


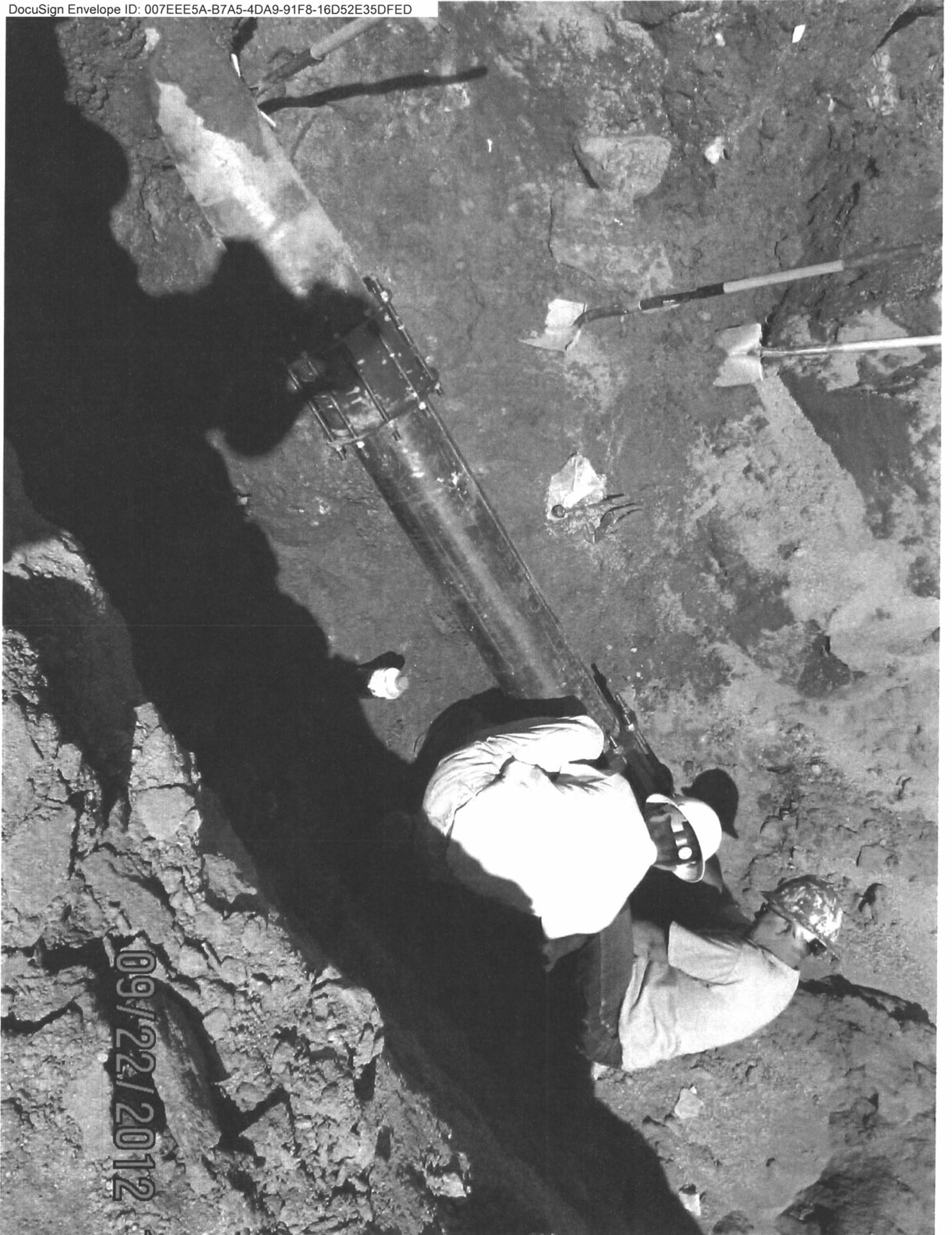


Exhibit D

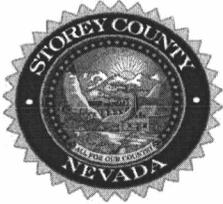




09/22/2012



09/22/2012



Storey County Board of County Commissioners Agenda Action Report

Meeting date:

Estimate of time required: 15 minutes

Agenda: Consent [] Regular agenda [X] Public hearing required []

1. **Title:** Consider appointment of Board Member to attend Supreme Court settlement conference in the Malfitano case
2. **Recommended motion:** I move to appoint _____ to attend the Supreme Court Settlement Conference in the Malfitano case.

3. **Prepared by:** Keith Loomis

Department: District Attorney's Office

Telephone: 847-0964

4. **Staff summary:** Vincent Malfitano Virginia City Gaming LLC and Delta Saloon Inc. have appealed Judge Wilson's decision denying them all relief in their action seeking a writ of mandamus to compel the County to issue business and liquor licenses for the Delta and Bonanza Saloons to the Nevada Supreme Court. The Supreme Court has diverted the case into its settlement program and has ordered the parties to attend a settlement conference on May 19, 2016 at 9:30 a.m. at the Supreme Court Building in Carson City. It is recommended that a member of the Board of County Commissioners be appointed to attend that conference.

5. **Supporting materials:** Order requiring participation in Settlement Program

6. **Fiscal impact:**

Funds Available:

Fund:

____ Comptroller

7. **Legal review required:**

____ District Attorney

8. **Reviewed by:**

____ Department Head
____ County Manager

Department Name:

Other agency review: _____

9. **Board action:**

[] Approved

[] Approved with Modifications

Denied

Continued

Agenda Item No.

**IN THE SUPREME COURT OF THE STATE OF NEVADA
OFFICE OF THE CLERK**

DR. VINCENT M. MALFITANO, AN
INDIVIDUAL; VIRGINIA CITY GAMING, LLC,
A NEVADA LIMITED LIABILITY COMPANY;
AND DELTA SALOON, INC., A NEVADA
CORPORATION,

Appellants,

vs.

COUNTY OF STOREY, ACTING BY AND
THROUGH THE STOREY COUNTY BOARD
OF COUNTY COMMISSIONERS; AND
STOREY COUNTY LIQUOR BOARD,
Respondents.

Supreme Court No. 70055
District Court Case No. 15OC000081E

NOTICE OF ASSIGNMENT TO NRAP 16 SETTLEMENT PROGRAM

TO: Holland & Hart LLP/Reno \ Matthew B. Hippler
Holland & Hart, LLP/Carson City \ Scott Scherer
Holland & Hart, LLP/Carson City \ Brandon C. Sendall
Storey County District Attorney \ Anne M. Langer, District Attorney
Storey County District Attorney \ Keith Loomis

Pursuant to NRAP 16, this matter is assigned to the Settlement Program. Any questions regarding scheduling should be directed to the assigned settlement judge:

David Wasick
PO Box 568
Glenbrook, NV 89413
Phone: (775) 720-4607

- > Unless the settlement judge directs otherwise, each party shall submit a confidential settlement statement directly to the Settlement Judge within 15 days from the date of this notice. A settlement statement is limited to 10 pages, shall not be served on opposing counsel or submitted to the Supreme Court. See NRAP 16(d).
- > All counsel shall participate in a premediation telephone conference initiated by the settlement judge within 30 days of this Notice. See NRAP 16(b).
- > All papers or documents filed with the Supreme Court while a case is in the settlement program shall be served on all parties and the settlement judge. See NRAP 16(a)(3).
- > Additional information regarding the settlement program is available on the court's website: http://supreme.nvcourts.gov/Settlement_Program/Overview/

DATE: March 31, 2016

Tracie Lindeman, Clerk of Court

By: Shaunna Troop

Settlement Program Administrative Coordinator

Notification List

Electronic

Holland & Hart LLP/Reno \ Matthew B. Hippler

Holland & Hart, LLP/Carson City \ Scott Scherer

Storey County District Attorney \ Anne M. Langer, District Attorney

Storey County District Attorney \ Keith Loomis

Paper

Holland & Hart, LLP/Carson City \ Brandon C. Sendall

David Wasick, Settlement Judge



Storey County Board of County Commissioners Agenda Action Report

Meeting date: 4/19/16

Estimate of time required:

Agenda: Consent [] Regular agenda [x] Public hearing required []

1. **Title:** Discussion & Possible approval of the second reading of the Café Del Rio's (Brian Shaw) request for a Cabaret license as an addendum to the current license
2. **Recommended motion:** I motion to approve the second reading of the Cabaret license for the Café Del Rio, 394 C St., Virginia City, NV, as an addendum to the current license
3. **Prepared by:** Brandy Gavenda, Admin. Asst.

Department: Storey County Sheriff's Office

Telephone: 775-847-0959

4. **Staff summary:**

5. **Supporting materials:**

6. **Fiscal impact:** None

Funds Available:

Fund:

___ Comptroller

7. **Legal review required:**

___ District Attorney

8. **Reviewed by:**

Department Head

Department Name: Sheriff, Gerald Antinoro



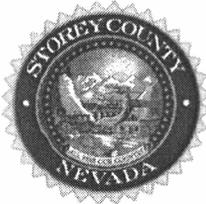
 County Manager

Other agency review: _____

9. **Board action:**

Approved
 Denied

Approved with Modifications
 Continued



Storey County Board of County Commissioners

Agenda Action Report

Meeting date: 4/19/16

Estimate of time required: 0 - 5

Agenda: Consent [] Regular agenda [x] Public hearing required []

1. **Title:** Business License Second Readings -- Approval

2. **Recommended motion:** Approval

3. **Prepared by:** Stacey Bucchianeri

Department: Community Development

Telephone: 847-0966

4. **Staff summary:** Second readings of submitted business license applications are normally approved unless, for various reasons, requested to be continued to the next meeting. A follow-up letter noting those to be continued or approved will be submitted prior to Commission Meeting. The business licenses are then printed and mailed to the new business license holder.

5. **Supporting materials:** See attached Agenda Letter

6. **Fiscal impact:** None

Funds Available: _____ Fund: _____ Comptroller

7. **Legal review required:** None

_____ District Attorney

8. **Reviewed by:**  _____
 Department Head

Department Name: Community Development

 _____ County Manager

Other agency review: _____

9. **Board action:**

- | | | | |
|--------------------------|----------|--------------------------|-----------------------------|
| <input type="checkbox"/> | Approved | <input type="checkbox"/> | Approved with Modifications |
| <input type="checkbox"/> | Denied | <input type="checkbox"/> | Continued |

Agenda Item No. 22

Storey County Community Development

Business Licensing

P O Box 526 • Virginia City NV 89440 • (775) 847-0966 • Fax (775) 847-0935 • buslic@storeycounty.org

To: Vanessa Stephens, Clerk's Office
Pat Whitten, County Manager

April 11, 2016
Via email

Please add the following item(s) to the **April 19, 2016, COMMISSIONERS** Agenda:

Storey County Building Department has inspected and found that the following businesses meet code requirements necessary to operate in the county:

LICENSING BOARD SECOND READINGS

- A. **PHO REAL, LLC** – General / 4047 Zermatt Road ~ Tahoe City, CA (Food Truck)
- B. **PROCLEAN MAINTENANCE, INC. dba PCM Bldg Svcs** – Contractor / 4587 Longley ~ Reno (cleaning)
- C. **PAMPA TECHNOLOGIES, LLC** – Contractor / 3 Waters Park Drive ~ San Mateo, CA (IT Contractor)
- D. **TAIKISHA, LTD** – Contractor / Tokyo, JAPAN (Equipment Installation Contractor)
- E. **SATO CO., LTD** – Contractor / Kyoto, JAPAN (Equipment Installation Contractor)
- F. **I TRUST JAPAN** – Contractor / Osaka, JAPAN (Equipment Installation Contractor)
- G. **MIRAPRO CO., LTD** – Contractor / Yamanashi, JAPAN (Equipment Installation Contractor)
- H. **DAIKOU KOUKI CO., LTD.** – Contractor / Kyoto, JAPAN (Equipment Installation Contractor)
- I. **AIR PRODUCTS & CHEMICALS, INC.,** – Contractor / 7201 Hamilton Blvd., ~ Allentown, PA (Fuel Supplier)
- J. **LEADING 2 LEAN, LLC** – Contractor / 88 Deer Pass Road ~ Wellington, NV (IT Contractor)
- K. **RISHA ENGINEERING GROUP** – Professional / 410 Cypress Ave ~ Burbank, CA (Engineering)
- L. **NASON'S SCANNING SERVICE, LLC** – Contractor / 1187 Rancho Mirage ~ Sparks (Concrete Scanning)
- M. **FACILITIES PROTECTION SYSTEMS** – Contractor / 1150 W. Central ~ Brea, CA (Fire Protection)
- N. **BERGELECTRIC CORP.,** – Contractor / 5650 W. Centinela ~ Los Angeles (Electrical Contractor)
- O. **LAWSON DRAYAGE, INC.,** – Transportation / 3402 Enterprise ~ Hayward, CA (Transportation, Rigging)
- P. **K B L REINFORCING, INC.,** – Contractor / 4660 S. Eastern ~ Las Vegas (Rebar Installer)
- Q. **TRICOM NETWORKS, INC.** – Contractor / 24335 Prielipp Road ~ Wildomar, CA (Telecom Contractor)
- R. **ENDRESS & HAUSER, INC.** – Contractor / 2350 Endress Place ~ Greenwood, IN (Instrumentation Cont.)
- S. **SANDEX, INC.** – Contractor / 4768 West 1400 South ~ Cedar City, UT (Drill & Blasting Contractor)
- T. **J.E. PEBBLES FIREARMS INSTRUCTOR** – General / 349 Occidental Dr. ~ Dayton (CCW Instructor)
- U. **AMES CONSTRUCTION, INC.** – Contractor / 1705 Peru Dr. (Contractor) TRI
- V. **TURNING POINT, INC.** – General / 55 North C Street (Evaluation Services) VC
- W. **STONCOR GROUP, INC.** – Contractor / 1000 East Park Ave ~ Maple Shade, NJ (Epoxy Flooring Cont.)
- X. **NATIONAL HIGH VOLTAGE SERVICES, INC.** – Contractor / 4530 Winter Oak ~ Antelope, CA (Electrical Inspection Service)
- Y. **UHK ENTERPRISES dba Snap-On Tools** – General / 7435 Indian Springs ~ Sparks (Mobile Tool Sales)
- Z. **DIVIDE FITNESS, INC.** – General / 800 South C Street (Fitness Facility) VC
- AA. **BI NUTRACEUTICALS** – General / 625 Waltham Way TRI

Inspection Required

ec: Chris Hood, Building Dept.
Austin Osborne, Planning Dept.
Dean Haymore, Comm. Dev.

Gary Hames, Fire Dept.
Patty Blakely, Fire Dept.
Fritz Klingler, Fire Dept.

Sheriff's Office
Commissioners' Office
Assessor's Office