



City of Elko Clerk's Department  
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## **ADDENDUM NUMBER ONE**

**ARPA ERRECART BLVD. CONNECTOR ROAD/WATER LINE EXTENSION**  
**PWP-EL-2024-354**

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Please confirm receipt of ADDENDUM NUMBER ONE AND FAX BACK TO (775) 777-7129 or email to [cityclerk@elkocitynv.gov](mailto:cityclerk@elkocitynv.gov).

RECEIVED:

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SIGNATURE

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COMPANY NAME

Dated this 22 day of May, 2024.

Acting Elko City Clerk

Cathy Laughlin

**\*\*\* PLEASE NOTE RECEIPT OF ADDENDUM NUMBER ONE ON  
APPLICABLE LINE ON SUBMITTED BID PROPOSAL \*\*\***

**New Question Due Date: 5-29-24**

## New Bid Opening Date: 6-5-24

### PRE-BID MEETING NOTES WITH CLARIFICATIONS AND ANSWERS:

- Please take or print the DBE Packet so that the information is available to you!
- Also be sure to take or print the SRF funding packet as well.
- All pipe should be spec'd as C900 PVC pipe.
- CAD drawings will be available with Addendum No.1 is prepared.
- Soils report will be available with Addendum No. 1
- Bac-T water testing can be performed from the existing hydrants.
- Coordination with NV Energy will be required for relocating power lines.
- No overhead electrical (NV Energy) exist for SCADA, energy source is solar for PRV Stations.
- Pinion Rd. tie-in is ductile iron.
- Access to the Archery site will need to be available.
- 2 PRV's exist at the project site. one 8"/4" Tank Maintenance Road and another is 12"/6" on Errecart.
- The ROW on 9<sup>th</sup> Street is pending, there is a -T- there for the future tie-in.
- Currently the Engineer's Estimate is \$10.5 million.
- Access should be available from Pinion and the hospital side, the area near the water tank has a very steep hill.
- City owns one piece of land near the site, and the surrounding areas are privately owned. We may be able to consider staging at the City's portion.
- The Force Account line item on the Bid form will be removed, if there are changes in costs, a change order must be considered and only the City Council can approve of a force account.
- Finish on road will be dirt only no base is not included.
- There will be a correction on the bid form to correct the quantity amount on bid item no. E1-03
- 36" of top soil may not be correct, 3-6 seems more accurate. This will be corrected in Addendum.
- Spec's may call out for phasing, this is the only phase, future development may occur at a later time.
- It is recommended to **not** use a complete vault setup with Jensen and CLA-VAL.
- The item # E1.03 excavation and embankment will be corrected in addendum.
- Bid item #8 to adjust, relocate existing utilities, manholes, etc... the only area that may need

addressed is located near the hospital. Verification of this will be addressed in Addendum No.1.

- Existing soils should be acceptable, all fill should be usable, other than saturation of soil.
- Juniper trees in the ROW and vegetation can be grubbed and discarded, no replacement will be necessary.
- A key to any gated City property will be provided to the contractor. This could also be considered as a place to store some equipment if needed.
- Schedule will be revised to **360 days** for construction completion, time extensions can be made during the course of the project if necessary, the entire project completion must be finished by December 2026.

#### **Additional Questions:**

- Base Bid Schedule Item E1.31 – Is this referencing an end wall or FES?
- Is Item E1.32 missing from Base Bid Schedule?
- There is a Pay Item for 48” End Wall but no 48” RCA – please clarify.

### **BID DOC, EXHIBIT, CLARIFICATIONS, AND PLAN CHANGES:**

#### **Bid document changes:**

- Article Three- Starting and Completion dates. Work shall be substantially completed in 360 days, changed from 120 days.
- Bid item E1.43 “Force Account” was removed.
- Bid item E1.31 corrected to 48” dia. RCP pipe.
- Bid item E1.32 added to document “48” end walls.”
- Bid items E1.06, E1.07, E1.11, E1.16 and E1.41 Quantities adjusted.

#### **Exhibit changes:**

- Exhibit 15A section 1.03F wording changed to read “Project shall be constructed in a single phase.”

#### **Clarifications:**

- Bid item E1.02 changed to read, clear to depth of 6” not 36”.
- Bid item E1.43 “Force Account” was removed.
- Bid items E1.06, E1.07, and E1.41 reworded to include area of pipe near hospital to Lamoille Hwy.

- Bid item CONSTRUCT 18" WATER MAIN 90° ELBOW was removed.
- Revised Bid Doc's with new Bid Form Page 73

**Plan Changes:**

- Changed Volume sheet V-1 to illustrate cut and fill areas.

**BID ITEM CLARIFICATIONS**

**GENERAL INFORMATION**

Unless indicated otherwise within the specific bid item as described in this section, the Engineer's estimated quantity, as contained in the bid schedule, shall be the final pay quantity.

The Engineer's estimated quantity, as contained in the bid schedule, is based on the details and dimensions shown on the plans and no guarantee is made that the quantity, which can be determined by computations, will equal the estimated quantity. No allowance will be made if the quantity based on computations does not equal the estimated quantity.

In case of discrepancy between the quantity contained in the bid schedule and the quantity or summation of quantities for the same item shown on the plans, payment will be based on the quantity contained in the bid schedule.

If the quantity of a particular item of work is intentionally increased or decreased by the City of Elko Project Manager during construction, the final pay quantity of that item will be adjusted to reflect the change.

For bid items which are paid based on field measurement, the Engineer's representative and the Contractor shall agree upon the quantity daily at which time it shall be recorded and initialed by both the Contractor and the Engineer's representative in the Engineer's representatives' field report.

**BID ITEM E1.01 - MOBILIZATION AND DEMOBILIZATION**

**Mobilization and demobilization bid price shall not exceed 5% of the total Base Bid**

Upon receipt of notice to proceed, the Contractor shall furnish, mobilize, and install such temporary works, materials, equipment, and construction plants as are necessary for the Successful completion of the Work. The Contractor shall also operate and maintain such temporary works, equipment, and construction plants throughout the period of instruction. All applicable temporary works, such as sanitation facilities, water facilities, shall fully comply with the rules and regulations of the government agency having jurisdiction. Clearing, grading, earthwork, and construction of access roads necessary for the temporary works, if any, shall be included as mobilization. The Contractor shall also obtain Air Quality Permits, Storm Water Discharge Permits, Dust Control, and all other permits necessary to complete the Work.

For historic preservation of the site the Contractor shall refer to NRS 383.121 – Historic Preservation and NRS 383.170 - Procedure upon discovery of burial sites,

permissible excavation.

Partial payments for mobilization and demobilization will be made in accordance with the following schedule:

When five percent (5%) of the original contract amount is earned from other bid items, by the Contractor, fifty percent (50%) of the bid amount for mobilization/demobilization will be paid.

When ten percent (10%) of the original contract amount is earned from other bid items, seventy five percent (75%) of the amount bid for mobilization/demobilization will be paid.

### **BID ITEM E1.02 - CLEARING AND GRUBBING**

The Contractor will be responsible for clearing and Grubbing of the entire project area of approximately 46 acres. (Extents of Errecart STA 63+00 – STA 118.39, Pinion Road STA 0+00 – 39+30, and Water Tank Access Road STA 2+23.82 – STA 8+06.58). The existing ground surface shall be cleared of all man-made improvements as shown on the Plans and all organic materials, including, but not limited to, sod, brush, grass, weeds, trees, logs, stumps, roots, and all other deleterious materials within the limits of construction. Man-made improvements determined by the EOR as not interfering with Construction Activities may, with written approval of the Engineer, be abandoned in place. Unless otherwise directed by or approved by the Engineer, materials shall be cleared to a depth of 6 inches below existing ground surface. Clearing shall extend to the outside excavation and fill slope lines, except that, where slopes are to be rounded, clearing shall extend to outside limits of slopes rounding.

The Contractor shall clear the specified improvements to the required depth by a method that does not damage the Subgrade. Should the Contractor fail to utilize necessary caution to protect the Subgrade, all over-excavation and deep stabilization shall be by the Contractor at no additional cost to the Agency/Owner.

Unless otherwise directed or approved by the Engineer, all materials cleared, not designated for reuse, shall be immediately removed from the public right-of-way. Reuse of any removed topsoil shall be done at the discretion of the City of Elko Engineer. The bid unit price for CLEARING AND GRUBBING is per acre of land cleared and grubbed.

### **BID ITEM E1.03 - EXCAVATION AND EMBANKMENT**

This item includes Excavation designed for shaping the project, including cut sections. It includes the excavation of materials, both usable and non-usable, and the disposal of excess or non-usable materials for which provision is not made in other specification items. This includes excavation for roadways, ditches, channels, and structures, as well as all associated grading operations.

Earthen embankments must be constructed of usable soils, which may be obtained from Excavation or Borrow. All soil used in Embankment, regardless of source must be tested in its original location or dedicated stockpiles by an accredited laboratory.

If the City of Elko is satisfied with the subsurface soil information obtained through Geotechnical investigation, the project engineer can allow the contractor to use material obtained from general excavation that meets specification requirements for Embankment construction. However, such permission does not release the contractor or inspector from observing the soil during construction. During construction, contractor personnel and third-party inspection are to observe exposed soils for conformance to specification requirements. Should unanticipated materials or subsurface conditions be encountered, the inspector shall notify the project engineer and City engineer immediately. The contractor shall cease operations in that area until the soil or subsurface conditions can be evaluated. Some examples of soils or conditions which will require investigation include collapsible soils, perched water tables, high PI material, erodible material, or any other material that is not acceptable for use in the proposed construction area.

This bid item includes finished grades for all cut and fill slopes with drainage and rough finished grade roadway and sidewalk sections. The bid item does not include placement of any aggregate base for future structural asphalt or concrete sections. Area to encompass (Errecart Boulevard STA 63+00 – STA 118.39, Pinion Road STA 0+00 – 39+30, and Water Tank Access Road STA 2+23.82 – STA 8+06.58). Bid unit pricing is based on a total cut volume of 571,008 cubic yards, and bidding for EXCAVATION AND EMBANKMENT is based on per cubic yard of cut generated basis, however it includes all compacted fill placement. Earthwork on site is balanced with an approximate 10.3% excess of cut for shrinkage allowance. The Volume calculation is based on finished grade with no adjustments for work not bid in this phase (i.e., HMA Paving, PCC sidewalk, Island Medians, Curb & Gutter, and Spandrel/Valley Gutters). Sheet V-1 shows cut/fill volumes and illustrates contractor required haul diagram planning. Grading sheets G-1 to G-12 are plan and profile views illustrating cut and fill section height and depths. The term “rough” finished grade to be defined by the City of Elko engineer considering required water line earth cover and timing of future phased work.

#### **BID ITEM E1.04 - TRAFFIC CONTROL & PEDESTRIAN SAFETY**

This item is the provision of traffic control in accordance with the (“SSPWC”) 2016 Revision “Maintenance of Traffic” section 338.01.01 to .05. The work comprising the unit price bid for this item shall consist of all labor, equipment, materials and incidentals necessary to comply with SSPWC including, but not limited to, preparation and distribution of plans, notices and reports; setup, removal and maintenance of all barricades, signs, channelizing devices, barrels, cones, flag persons, detours, pilot cars, arrow boards, and message boards; temporary striping; temporary paving; temporary aggregate base; and plant mix bituminous ramps.

This bid item is inclusive of any pedestrian barricading or safety precautions necessary on-site during mass grading and utility trenching.

Message boards will be used for special events and for 1 week at the beginning of each phase of construction.

*There shall be no additional payment for changes in the traffic control plan required because of changes in the Contractor’s work method or schedule.*

*This item does not include traffic control for any optional bid items.*

Payment for TRAFFIC CONTROL/SAFETY MEASURES shall be made at the contract lump sum price, which shall be deemed full compensation to complete the work as specified.

#### **BID ITEM E1.05 - EROSION CONTROL & SLOPE PROTECTION**

The Contractor shall procure and pay for all necessary permits and licenses prior to commencement of work. The cost for obtaining and renewing the permits and licenses shall be included in other items of work, at no additional cost to the Agency/Owner. The Contractor shall comply with permit requirements in addition to all applicable Federal, State, or local laws and regulations in the performance and pay any fines for non-compliance, at no additional cost to the Agency/Owner.

The Contractor shall secure coverage under the NPDES General Permit and provide for the day-to-day operational control of activities that are necessary to ensure compliance with the requirements for erosion control due to storm water and construction related runoff from construction sites as established under NRS and NAC 445A.

This work shall include, but is not limited to, filing the NOI and NOT; and development and implementation of the SWPPP, including furnishing materials; constructing; and maintaining permanent and temporary sediment control measures for the duration of construction activities.

This bid item for EROSION CONTROL AND SLOPE PROTECTION is a per Lump Sum amount. See Erosion Control plans for BMP planning such as: fiber rolls, silt fencing, track out pads, construction waste disposal, stockpile management, sweeping, and storm drainage protection measures. To reduce added cost and extra time, it is recommended that permanent storm drain structures be constructed during Excavation and placement of Embankment.

#### **BID ITEM E1.06 – SAW CUTTING**

This item is for saw cutting pavement near the Hospital portion of Errecart Boulevard approaching Lamoille Highway. The 18” water line runs through the existing asphalt section. The contractor is responsible for any traffic control measures needed during the cutting process. Payment for SAW CUTTING will be made at a per lineal foot of cut made to depth sufficient for full asphalt depth removal.

#### **BID ITEM E1.07 – REMOVE AND DISPOSE OF EXISTING ASPHALT**

The bid item is for complete removal and proper disposal of asphalt saw cut in item E1.06. The contractor is responsible for assuring asphalt has been cut to an appropriate depth and will be liable for any damage to adjoining existing asphalt not intended for removal. The contractor is responsible for any traffic control measures needed during the removal process. Item REMOVE AND DISPOSE OF EXISTING ASPHALT to be paid at per square foot of asphalt paving fully removed and disposed of.

#### **BID ITEM E1.08 – ADJUST, RELOCATE, AND OR REMOVAL OF EXISTING UTILITIES**

This bid item is to address the existing utilities outside new water main construction but within grading limits of the Errecart alignment from ~ stationing 107+75 to 118+39. Utility map master drawing indicates an existing 36" storm drain crossing near centerline station 108+00. There is a proposed new 30" pipe to be placed at this location. The difference in grades would indicate the existing line will need to be removed. Depending on burry depth and pipe condition, it is at the discretion of the City to adjust grading and retain existing or replace with new proposed RCP. Additionally, the master drawing indicates a 24" storm drain crossing near centerline station 116+00. This pipe is in a proposed minimal cut area with proposed riprap lining. Again, it is at City discretion to adjust grading and retain existing pipe or have it removed. Also along this stretch of the alignment are three light poles with roughly 7 associated electric utility boxes and a manhole. Approaching the Hospital there are markers indicating existing gas and fiberoptic. The City of Elko Engineer or project manager shall indicate if these items will be altered or left alone. Payment for ADJUST, RELOCATE, AND OR REMOVAL OF EXISTING UTILITIES is to be paid on a lump sum basis. This bid item may be increased, reduced, or removed pending final decision making.

### **BID ITEM E1.09 and E1.10 - FURNISH AND CONSTRUCT PIPE CONNECTIONS**

This item, FURNISH AND CONSTRUCT PIPE CONNECTIONS is being bid on each connection made to existing water utility service. Item E1.09 is for connection made on Pinion Road alignment at ~ station 0+87.96. Valve and restraint kits at this connection point are included in bid item E1.21. This item is to include labor and time to unearth existing 12" (D.I. pipe to be field verified) and coordination of any necessary water service shut down. Contractor is responsible for complete removal and disposal of any existing termination cap and block removed from existing line end.

Bid item E1.10 is for connection made on the Water Tank Access Road alignment at ~ station 0+00. There is an existing valve and 18" (PVC/D.I. pipe stub to be field verified) in place. This item is to include labor and time to unearth existing pipe stub and coordination of any necessary water service shut down. In addition, this item shall include parts or incidentals for connection to stub with an EBAA IRON 3800 MEGA-COUPLING or approved equal to connect stub to proposed 18" C900 DR18 pipe included in bid item E1.11. Contractor is responsible for complete removal and disposal of any existing termination cap and block removed from existing line end.

### **BID ITEM E1.11, E1.12 and E1.22 – FURNISH AND CONSTRUCT 12" & 18" AWWA C900 DR14 & DR18 PIPE**

This item is for the construction of all 12" and 18" water main/open-cut piping (18" Line @ Errecart Boulevard STA 62+50 to STA 118+32.74 and extension to Lamoille Highway, 12" Line Pinion Road STA 0+87.96 to STA 39+30, 18" Line Water Tank Access Road STA 0+00 to STA 0+16.60 and 12" Line Water Tank access Road STA 0+16.60 to STA 8+06, and lastly, 80 ft. of pipe stubbed out to 9<sup>th</sup> Street Connector Road for future). Item bid to include water main (pipe, fittings, adaptors, restraint glands, and other accessories not defined by separate bid items). All pipe bends and pipe connections to existing lines are separate bid items, but this item is inclusive of stub, cap, and dead end thrust blocking at Errecart Boulevard ~ STA 62+50 and 9<sup>th</sup> Street ~ STA 26+92. The work includes but is not limited to trench excavation, rock excavation/hammering, removal and disposal of waste excavated material,



placement/compaction of bedding, and backfill as per specification in (“SSPWC”) 2016 Revision section 305.01. In addition, the bid will be inclusive of associated backfill compaction testing, tracer wire installation, warning tape installation, disinfection, flushing, scheduling shut-downs, construction sequencing, all water line pressure testing, and placing into service. Payment for FURNISH AND CONSTRUCT 12” AND 18” AWWA C900 DR18 PIPE shall be made per lineal foot of pipe (measured at ground surface) installed, tested, disinfected, placed into service, and approved/accepted.

#### **BID ITEM E1.13 & E1.26 – CONSTRUCT 18”x12” TEE & VALVE ASSEMBLY**

This item CONSTRUCT 18” x 12” TEE & VALVE ASSEMBLY is bid per installed configuration as per each unit by location along Errecart Boulevard at each of (3) crossroad intersections at STA. 63+51.64, STA 74+66.78, and STA 100+80.63. Configuration shall include (1) 18”x12” flanged main line tee, (1) 12” resilient wedge gate valve flanged by mechanical joint, (2) 18” Butterfly valves flanged by mechanical joint, (2) 18” restraint kits for securing pipe, (1) 12” restraint kit for securing pipe, appropriately sized concrete thrust blocking, valve box risers cut to length, and valve boxes adjusted to “rough” finished grade, and all associated backfill placement, compaction and testing. Valve selection and alternative fitting configuration to be approved through City of Elko.

#### **BID ITEM E1.14, E1.15, E1.16, E1.17, E1.23, E1.24 - FURNISH AND CONSTRUCT PIPE BENDS**

This bid item is for furnishing and completed installation of ductile iron mechanical joint pipe bend fittings. This item is for placement of either ”12” or 18” mechanical joint bend fitting of specified angle by line item. Bid item FURNISH AND INSTALL PIPE BENDS is bid per each installed unit and shall include Pipe bend fitting, restraint kits for securing pipes at both ends, appropriately sized thrust blocking, required hardware and or appurtenances, and all associated backfill placement, compaction, and testing. Note: elbow at STA 0+16.60 at Water Tank alignment to be inclusive of reducer from 18” to 12”.

#### **BID ITEM E1.18, E1.19 and E1.25 - FURNISH AND CONSTRUCT IN-LINE ISOLATION VALVE & TEMPORARY FLUSH VALVE ASSEMBLY**

This bid item FURNISH AND INSTALL IN-LINE ISOLATION VALVE & FLUSH VALVE ASSEMBLY payment is per unit installed of either 12” resilient wedge (mechanical joint gate valve) or 18” (mechanical joint butterfly valve) for purpose of isolation. 18” valves are located along Errecart alignment at STA 69+10.36, STA 80+81.63, STA 90+80.96, and STA 107+93.07. 12” valves are located along Pinion alignment at STA 0+88, STA 11+02.98, STA 21+09.49, and STA 31+09.53. Bid includes new installation of (1) 12” or 18” valve, (2) 12” or 18” restraint kits for securing pipe to valve, appropriately sized concrete thrust blocking, valve box and riser to “rough” finished grade, backfill, and any labor/incidentals. Flush valve assembly, Valve and adapter fitting configuration to be approved by City of Elko.

#### **BID ITEM E1.20 and E1.27 - FURNISH AND CONSTRUCT FIRE HYDRANT ASSEMBLY**

This item is for furnishing and installation of Mueller Super Centurion fire hydrant and associated items for main branch tie to either 18" or 12" proposed water main line. Reference detail No. 4 on sheet D-12 for City of Elko fire hydrant specs, and utility plan sheets for the fire hydrant locations within Errecart Boulevard, Pinion Road, and the Water Tank Access Road alignments. Bidding is per each unit and one unit is to include (1) Fire Hydrant, (1) 18"x6" or 12"x6" mechanical joint by flanged main line tee, (1) 6" resilient wedge gate valve flanged by mechanical joint, (2) 18" restraint kits for securing pipe to tee, (2) 6" restraint kits for securing pipe to valve and hydrant, (21-26 ft.) average pipe length of 6" C900 DR18 pipe, appropriately sized concrete thrust blocking, valve box and riser adjusted to "rough" finished grade, backfill placement, compaction and testing, all appurtenances, hydrostatic testing, and any other City of Elko requirements. Alternative fitting configuration to be used at approval of the City. Payment for FURNISH AND CONSTRUCT FIRE HYDRANT ASSEMBLY shall be for each hydrant furnished, installed, tested, disinfected, flushed, and placed into service according to the project specifications, drawings, and applicable details.

### **BID ITEM E1.21 & E1.28 – PRV/BYPASS ASSEMBLY AND VAULT CONSTRUCTION**

This item includes provision of all labor, equipment, and materials to furnish and install bid items E1.17 and E1.23 pressure reducing & sustaining valve stations at STA 91+74.17 (Errecart Boulevard) with 12" main and 6" bypass globe style with ductile iron bodies and class 300 flanges. Item also includes STA 35+44.91 (Pinion Road) with 8" main and 4" bypass globe style with ductile iron bodies and class 300 flanges. All valves shall be fusion epoxy coated inside and outside with internal/external stainless-steel trim. Each PRV station provided with precast concrete vault, traffic rated cover, resilient wedge gate valves, gauges, air valves, pipe supports, and accessories and appurtenances as shown in detail sheet D-1 and D-2. Bidding is also inclusive of telemetry and power supply to each unit as defined in detail sheets D-1 to D-10. Hydrostatic tests shall be performed before making final downstream tie-in connections to existing system; contractor shall clean, disinfect per AWWA, flush and hydrostatic test (upstream and downstream psi as defined by City of Elko) each PRV station. After testing, Contractor shall set/adjust final operating pressure settings for service conditions (as defined by and checked by the City of Elko water district); relief valve to be set first before making tie-in to avoid over pressurizing and damaging any downstream water system. Payment for PRV/BYPASS ASSEMBLY AND VAULT CONSTRUCTION shall be for each PRV station furnished and installed, disinfected, tested, and placed into service by Contractor, as accepted by District. (Note: *This bid item includes all piping penetrating vault walls and connections to proposed main line*).

### **BID ITEM E1.29 - FURNISH AND CONSTRUCT WATER SAMPLING STATION**

This unit item FURNISH AND INSTALL WATER SAMPLING STATION is to be paid for each complete water station installation. Bid item is for two sample stations located at STA 101+12.44 on the proposed 18" water main in Errecart Boulevard and the second is on the proposed 12" water main located at STA 1+46.61 in Pinion Road. Each unit to include (1) 18"x1" or 12"x1" service saddle, (1) 1" corporation stop valve, (1) 1" curb stop valve with box and lid, (1) Eclipse 88WC or approved equal sample station, and all associated incidentals, piping, fittings, and backfill as specified in detail No.4 on sheet D-13. Sample stations to be

placed in landscape areas where available as identified in detail. Other areas requiring station placement between back of walk and right of way to require City of Elko engineer approval prior to placing. Water sample stations to be installed prior to main line pressure testing.

**BID ITEM E1.30 - FURNISH AND CONSTRUCT AIR RELEASE VALVE ASSEMBLY**

This bid item FURNISH AND CONSTRUCT AIR RELEASE VALVE ASSEMBLY payment is paid out as per each complete unit installed of ARV assembly. Unit to be located on Errecart Boulevard at STA 100+67.02. Reference Detail No. 3 on Sheet D-12 for specifications. Unit shall include (1) 2" VAL-MATIC #22 or approved equal ARV, (1) McDonald brand or approved equal vent cap, (1) meter box and extension as necessary for adequate access, (1) 18" x 2" service saddle, and all associated incidentals, piping, fittings, and backfill as specified in detail per City of Elko requirements. ARV to be installed prior to main line pressure testing.

**BID ITEM E1.31, E1.33, E1.35, E1.37, and E1.39 - FURNISH AND CONSTRUCT STORM DRAIN CLASS III RCP**

This item is for construction of ASTM C-76 Class III Reinforced Concrete Pipe for 48", 60", 18" and 30" storm drain with CL crossings located at STA 69+88, STA 87+70, STA 99+47, and STA 108+91 along Errecart Boulevard. Also 24" storm drain with CL crossing STA 21+23 along Pinion Road. Refer to Utility plans for proposed bury depths at road crossings. All RCP is assumed round Class III unless noted otherwise in plans and installation shall follow standards set forth in (SSPWC) 2016 Section 305. The unit price bid for this item shall include all labor, equipment, and materials (except for pipe end treatments and items covered by other bid items) for complete functional storm drain crossing. Contractor is responsible for ordering, transporting, handling, and staging of pipe. The item is to be inclusive of any required trenching, shoring, stabilizing, dewatering, joint preparation, placement/compaction of bedding and backfill, pipe joining, testing, inspection, and repairs/replacement of any non-conforming product/work. The contractor is responsible for verifying pipe class requirements based on depth, soil type, and loading requirements with vendor prior to purchase. Payment for FURNISH AND CONSTRUCT STORM DRAIN CLASS III RCP shall be made per lineal foot of pipe (measured at ground surface) installed, tested, inspected, placed into service, and approved/accepted. Reference detail sheet D-14 for allowable fill heights, compaction, and installation requirements.

**BID ITEM E1.32, and E1.34 - FURNISH AND CONSTRUCT END WALL C.I.P.**

This bid item is for supply of all labor, equipment, and materials to construct ENDWALL sections for 48" and 60" RCP storm drain crossing CL at STA. 69+88 and 87+70 along Errecart Boulevard. The contractor is responsible for forming, bracing, steel reinforcing, and concrete placement of standard cast-in-place structure at both inlet and outlet to RCP pipe sections. See provided Detail sheet D-14 for approximate dimensioning and required concrete volumes for use in bid calculations (note: proposed grading fill slopes are not as steep as provided table values). Contractor may provide single unit precast treatments if available for this bid item. This item shall include any necessary riprap at in and outlet grading. Payment for FURNISH AND CONSTRUCT END WALL C.I.P. shall be made for each end section constructed, placed into service, and approved/accepted. This item may be modified to only include extruded pipe ends with riprap and no end walls at discretion of the City of Elko.

### **BID ITEM E1.36, E1.38, and E1.40 - FURNISH AND INSTALL PRECAST END SECTIONS**

This item is for procurement, transport, and placement of ASTM C-76 Conforming Reinforced Concrete Pipe Flared End Sections (Reference Detail Sheet D-14 for product design). Contractor to furnish and install end sections for all 18" to 30" RCP at both ends of pipe inlet and outlets. Bid item includes required grading of slopes at end section side wall tapers and, any necessary precast or cast-in-place toe wall construction at outlet ends, and labor/incidentals. Contractor responsible for procurement, transportation, proper joining to pipe, and safe product handling. It shall be at the discretion of the City of Elko that this bid item may be replaced with C.I.P. end wall treatments. Payment for FURNISH AND INSTALL PRECAST END SECTIONS shall be made for each end section placed into service and approved/accepted.

### **BID ITEM E1.41 - FURNISH AND INSTALL CLASS 150 RIPRAP EROSION PROTECTION**

This bid item is for supply of all labor, equipment, materials, and incidentals to construct erosion protection lining for channel construction beginning at STA. 63+51 OFF: 111.33'R and down the 3:1 proposed slope. Channel to have minimum 10 ft. top width, 2 ft. bottom, and 4:1 side slope. Channel to be riprap lined with Class 150, minimum  $D_{50} = 4"$  stone at 8" thick bed. Riprap to extend into bottom channel parallel to the back of future walk for a portion as indicated in Grading plans. Contractor responsible for aligning to and or grading to redirect existing drainage flow entering channel. Also included in the bid item is additional riprap lining at STA. 115+75.00 OFF: 67.96'R for channel portion parallel to the back of future walk as indicated in Grading plans. Riprap also to be Class 150,  $D_{50} = 4"$  stone at 8" thick bed. The contractor shall again be responsible for grading and flow direction into riprap entrance point. The pay amount for FURNISH AND INSTALL CLASS 150 RIPRAP EROSION PROTECTION shall be per square yard of riprap placed and approved/accepted.

### **BID ITEM E1.42 - PROVIDE AND PLACE PAVEMENT PATCHING**

The bid item shall be considered a permanent bituminous pavement patch unless specified otherwise by City of Elko engineer. Pavement patch shall be provided for water line shown in utility sheets U-6 and U-7 for ~ 1360 LF of pipe installation. Reference detail 6 on sheet D-13 for patch requirements. Asphalt patch width shall be a minimum of 4 feet in width for placing of the 18" C900 pipe or wider if specified by City officials. Pavement patch depth to be the greater of 5" or existing contiguous pavement thickness. Depth of type II base material shall be a minimum thickness of 8" unless specified otherwise. The contractor is responsible for any traffic control measures needed during the patching process. Payment for PROVIDE AND PLACE PAVEMENT PATCHING shall be paid out on a basis per square yard of patching placed and deemed acceptable.

### **Separate Attachments:**

- **Revised Bid Docs with Updated Bid Form**
- **CAD File**
- **Soils Report**

