



# Department of Administrative Services Purchasing and Contracts

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Sabra Smith Newby, Chief Administrative Officer  
Adleen B. Stidhum, Purchasing Administrator



## CLARK COUNTY, NEVADA BID NO. 603162-13 SLOAN CHANNEL EFFLUENT DRAIN CONNECTION AND DISCHARGE PIPE

December 6, 2013

### ADDENDUM NO. 2

#### INVITATION TO BID

1. The Bid Opening date of December 13, 2013 at 2:15:00 p.m. **remains unchanged.**

#### BID FORM

2. Disregard the Bid Form, pages 4-1 through 4-6 and replace with the attached Revised Bid Form, pages 4-1 through 4-6 attached to this Addendum No. 2.

#### SPECIAL PROVISIONS

3. The following are changes and/or clarifications to the special provisions for the above referenced project.

#### SECTION 100 GENERAL REQUIREMENTS, SUBSECTION 100.01 LOCATION AND SCOPE

Section 100.01 is deleted and replaced with the following:

SCOPE OF WORK: The project is located in the northeastern portion of Las Vegas Valley, Clark County, Nevada. The scope of the project includes construction of an effluent drain connection and discharge pipe installed along and within Sloan Channel from north of Carey Avenue to south of Sahara Avenue at Las Vegas Wash confluence. The conduit consists of 54-inch RCP and 4'x4' reinforced concrete box culvert, trenched into the west bank of Range Wash and Sloan Channel and installed on the invert slab of Sloan Channel. There are seven road crossings where conduit must be installed adjacent to existing bridge structures. There is one road crossing where conduit is jacked and bored beneath bridge. Removal and reconstruction of the west bank of Sloan Channel is required in six locations. The expansion joints in the existing concrete channel lining must be rehabilitated from Carey Avenue alignment to Charleston Boulevard. Numerous utilities must be protected in place or relocated. Additional improvements include a overflow structure, access manholes, transition manholes, concrete flood wall along portions of east bank of Sloan Channel, and flow containment curb in Las Vegas Wash.

#### SECTION 208 TRENCH EXCAVATION AND BACKFILL, SUBSECTION 208.02.07 CONTROLLED LOW STRENGTH MATERIAL (CLSM)

Add the following paragraphs to this section:

- C. The Contractor shall backfill the trench of the reinforced concrete box culvert effluent drain with CLSM from Station 200+52.75 to Station 200+59.25.
- D. All CLSM used for backfill of the trench for the reinforced concrete box or reinforced concrete pipe effluent drain shall be Class I in accordance with Section 704.03.07.

## SECTION 270 DEWATERING, SUBSECTION 270.01.01 GENERAL

Delete Paragraph B.3 and replace with the following:

- B.3 Contractor shall furnish, install, and operate a system that excludes surface water from entering effluent drain pipe excavations and expansion joint rehabilitation work and intercepts and lowers groundwater in excavations so that Work can be constructed in the dry.

Delete Paragraph D.2 and replace with the following:

- D.2 Surface water will be present and flowing in the Sloan Channel. The Contractor must divert this water during construction of the effluent drain and rehabilitation of channel expansion joints within the channel to protect the Work.

Insert Paragraph c in Section E.1, NPDES Groundwater Discharge Permits

- c. Dewatering the channel subgrade for expansion joint rehabilitation work will be covered upon issuance by NDEP of the Stewart Avenue NPDES Groundwater Discharge Permit (NV0024215) and is covered by the De Minimis General Permit for Charleston Boulevard crossing (Project ID DDP-216, Category 4) for joints located in the vicinity of those crossings. If the channel subgrade must be dewatered for rehabilitation of joints outside these limits, the Contractor must apply for a De Minimis General Permit from NDEP. The De Minimis General Permit authorizes the Contractor to discharge de minimis discharges to Sloan Channel in accordance with the conditions of NPDES General Permit NVG201000. The discharge rate for De Minimis Permits is less than or equal to 250 gpm. The Contractor shall comply with all terms and conditions of the general permit. The Contractor shall include all costs for complying with the terms and conditions of De Minimis General Permits in the bid price for Dewatering.

## SECTION 270 DEWATERING, SUBSECTION 270.01.02 SUBMITTALS

Delete Paragraph A and replace with the following:

- A. Contractor shall prepare and submit to Engineer a Dewatering Plan detailing the layout, design, rate of discharge, schedule and phasing of implementation, operation, and monitoring of the surface water and groundwater dewatering system. The plan shall detail how the Contractor will collect and divert surface water from effluent drain pipe excavations and joint rehabilitation work during progress of the Work without damaging adjacent properties and buildings. The plan shall also detail how the Contractor will remove groundwater from excavations during progress of the Work without damaging adjacent property, buildings, structures, and utilities by settlement or other groundwater withdrawal-related effects. The plan shall also detail how the Contractor will treat extracted groundwater to reduce contaminants to acceptable discharge limits. The Plan shall comply with federal, state, and local agency requirements.

## SECTION 270 DEWATERING, SUBSECTION 270.04.01 MEASUREMENT

Delete Paragraph B and replace with the following:

- B. The quantity of permanent NPDES Groundwater Discharge Permit for Stewart Avenue, NPDES De Minimis General Permit for Charleston Boulevard crossing, NPDES De Minimis General Permit for Sahara Avenue crossing and NPDES De Minimis General Permit for expansion joint rehabilitation, if required, will not be measured for payment. Costs for complying with the permits shall be included in the lump sum pay item for Dewatering.

## SECTION 502 CONCRETE STRUCTURES, SUBSECTION 502.02.01 MATERIALS – GENERAL

Item M is deleted and renumbered to Item F and replaced with the following. Items N and O are renumbered to Items G and H and remain unchanged.

- F. Joint Material

1. Patching Material: One component rapid hardening cementitious material meeting the requirements of ASTM C928. Atlas Pro-1Patch or acceptable equal.
2. Backing Material for Cold-applied Sealants: a closed cell, polyethylene flexible rope-like foam joint backing material compatible with polyurethane sealants meeting the requirements of ASTM C1330, Type C and Section 707.03.03. Kool-Rod by W.R. Meadows or acceptable equal.
3. Expansion Joint Filler: Preformed sponge rubber, ASTM D1752, Type I. Filler adhesive as recommended by the filler manufacturer.
4. Bond Breaker Tape: Adhesive backed polyethylene tape meeting the requirements of Section 707.03.03.
5. Joint Sealant
  - a) Expansion joints
    - i. 2-component polyurethane pourable joint sealant meeting the requirements of ACI 504R, Table 1, Type IV and Section 707.03.03. Self-leveling for flat surfaces and non-sagging for sloped or vertical surfaces.
    - ii. Impermeable closed cell, cross-linked ethylene vinyl acetate, low density polyethylene copolymer, nitrogen blown foam material for a compression seal and meeting the requirements of Section 707.03.05, Wabo Evazote UV or acceptable equal.
  - b) Contraction and Construction Joints: Comply with Section 707.03.02, Self-leveling for flat surfaces and non-sagging for sloped or vertical surfaces.
6. Waterstop: Flexible, polyvinyl chloride waterstop that is 6-inches wide, ribbed with a closed center bulb. The thickness of the web shall be 3/8-inch and the bulb shall have an outside diameter of 1-inch. Greenstreak 717 or acceptable equal.

#### SECTION 502 CONCRETE STRUCTURES, SUBSECTION 502.03.20 PRE-CAST CONCRETE BOX CULVERTS

Item L, No. 1 is deleted and is replaced with the following:

1. Pre-cast boxes placed on existing concrete invert slab shall be bedded in mortar. The pre-cast boxes shall be "wet-set" in a fresh mortar bed. Mortar shall meet the requirements of Section 501.03.12, Class C. Fine Aggregate shall comply with Section 706.03.03. The minimum 28 day compressive strength shall be 3000 psi. Mortar shall fill irregularities in surface of channel invert slab so that there is full contact between the top surface of the existing channel slab and the bottom of the box. The mortar bed shall have an average thickness of 1/2 inch.

#### SECTION 502 CONCRETE STRUCTURES, CONSTRUCTION

Add the following:

##### 502.03.27 REHABILITATION OF EXPANSION JOINTS IN EXISTING CONCRETE CHANNEL LINING

- A. The scope of work shall include rehabilitation of expansion joints in the existing concrete channel lining of Sloan Channel.
  1. Rehabilitation of the expansion joints shall include removal of existing sealant, backer rod, and joint filler, repair of spalls in the existing concrete faces of the joint, and sealing the joint. There are two sealant options: 1) Preformed low density closed cell compression joint seal bonded to each face of joint with epoxy adhesive, and 2) 2-component polyurethane pourable joint sealant backed with a closed cell polyethylene flexible rope-like foam backing material.

- B. The Contractor shall rehabilitate all transverse expansion joints in the Sloan Channel concrete lining from Station 38+71 near the confluence with Range Wash to Station 201+94, which is about 100 ft downstream of the Charleston Boulevard bridge.
1. The Engineer, after a field survey of the existing expansion joints, will direct the Contractor to rehabilitate the joints using one of the two options listed above.
  2. Generally, those joints that are nominally 1 inch and larger with a consistent joint width will be sealed with the preformed low density closed cell compression joint seal. Those joints narrower than 1 inch or with a variable joint width will be sealed with a 2-component polyurethane pourable joint sealant.
  3. The Contractor shall rehabilitate the joints during favorable environmental conditions. This is especially important for sealant installation.
    - a) Comply with the manufacturer's recommendations for condition of the substrate and acceptable installation temperatures.
    - b) For the portion of existing expansion joints located within the footprint of the proposed reinforced concrete box culvert effluent drain pipe, the Contractor must rehabilitate the expansion joints in advance of the box installation during all months of the year. During the cooler winter months, the Contractor shall seal the joint on warm days or during the warmest part of the day. During the summer, the Contractor shall seal the joint during the coolest days or during the coolest part of the day.
    - c) The Contractor shall schedule the rehabilitation of all remaining joints outside the limits of the footprint of the reinforced concrete box culvert effluent drain pipe during months of the year with moderate temperatures. The existing expansion joints shall be sealed when the joint is at or near the midpoint of its expansion and contraction cycle. The Contractor shall avoid sealing the joints from June 1 to August 31 when hot temperatures will close the joints and from December 1 to January 31 when cold temperatures will open the joints. Days with average temperatures close to the annual average temperature of 67.1 degrees F are ideal.
    - d) To minimize flow diversion work, the Contractor may consider scheduling joint rehabilitation work for all joints outside the limits of the box culvert footprint after the effluent from the City of North Las Vegas' Wastewater Reclamation Facility has been routed from Sloan Channel into the effluent drain pipe.
- C. The Contractor shall rehabilitate the expansion joints in accordance with the following procedures:
1. The Contractor shall rehabilitate the length of each expansion joint located beneath the proposed reinforced concrete box culvert effluent drain pipe prior to placement of mortar bedding and installation of box.
  2. Joints shall be rehabilitated under dry conditions.
    - a. The Contractor shall divert flow in the channel around the work zone.
    - b. The Contractor shall lower the groundwater elevation below the channel invert if groundwater seeps into the joints under repair. The Contractor may use the vertical weepholes in the channel invert slab to dewater the channel subgrade. The vertical weepholes shall be restored following dewatering operations.
  3. The Contractor shall remove the existing sealant. If the sealant is backed with a backer rod, the Contractor shall remove the backer rod. The Contractor shall remove the joint filler to a depth of 2 1/2 inches below the top surface of the invert slab. This depth shall have a tolerance of plus 1/4 inch and minus 0 inch. The Contractor shall not damage the epoxy coating of the existing smooth steel dowels located through the expansion joint at mid-height of the slab.
  4. The Contractor shall repair spalls along the concrete faces of the expansion joint to create a well-defined, uniform joint geometry before resealing the joint. All spalls deeper than 1/2 inch shall be repaired in accordance with the following procedures:

- a. Remove loose and damaged concrete.
  - b. The Contractor shall saw cut the perimeter of the spall to a minimum depth of 1/4 inch. The saw cuts shall be near vertical and located 1 inch beyond the edge of the spall. The repaired area shall be regular in shape. Feathered edges along the perimeter of the spall are not acceptable. The concrete within the repair area shall be removed to the depth below the saw cut with light chipping tools (10-20 lbs) operated at an angle of about 45 degrees to minimize damage to existing, sound concrete. Small jack hammers and chipping tools shall be fitted with spade bits to minimize the damage to sound concrete caused by gouge bits.
  - c. The Contractor shall prepare the concrete surface to receive patching material. The surfaces to receive patching material shall be structurally sound, clean, and dry. The Contractor shall sand blast the area to be patched so that it is free of loose particles, oil, dust, algae, other contaminants, and residues. The surface shall be roughed to improve the bond between the substrate and the patch. All sandblasting debris shall be removed from the repair area by air blasting. Air from the compressor shall be free of moisture and oil contamination.
  - d. The Contractor shall mix, place, finish, and cure the rapid-hardening cementitious concrete in accordance with the manufacturer's recommendations and the following provisions:
    - 1) The face of the joint shall be accurately formed. A compressible material shall be placed in the open expansion joint adjacent to and 6 inches beyond the limits of the spall repair to prevent patching material from entering the joint. The movement of the expansion joint will be restricted if repair material is spilled or flows into and subsequently hardens in the open joint.
    - 2) The repair surface shall be sound, clean, and dry as described in Paragraph c above.
    - 3) A scrub coat of the patching material shall be applied to the repair surface with a stiff bristle brush. The scrub coat shall be worked into any recesses and the sides of the repair area to improve the bond between the substrate and patch.
    - 4) The rapid-hardening cementitious concrete shall meet the requirements of ASTM C-928 and shall be mixed and placed in accordance with the manufacturer's recommendations. The Contractor shall exercise care in control of mixing times and water content because of the quick setting nature of the repair material. Repair materials shall be placed under favorable environmental conditions; generally when air and pavement temperatures are above 40 degrees F and rising and below 90 degrees F and falling. The patch material shall be consolidated with small diameter, high frequency internal vibrators for large repairs and by cutting with a trowel (rather than rodding) for small repairs.
    - 5) The finish shall match the surrounding concrete surface. The external corner shall be finished with a 1/4 inch radius edging tool. The patch shall be cured with white-pigmented curing compound applied at twice manufacturer's recommended rate.
    - 6) The patch shall be protected from any traffic loads and running water for 48 hours.
5. The Contractor shall prepare the open joint for installation of joint filler and sealant as follows:
- a. The Contractor shall prepare the concrete faces on both sides of the open joint to improve the bond between concrete and the sealant. The faces shall be sand blasted to remove laitance, remnants of old sealant, algae, oil, contaminants, sawing slurry, patching material and curing compound from repair of spalled joint faces, and all other residues. The sand blasting equipment shall maintain a nozzle pressure of 4500 psi at 500 cfm and supply air that is clean, dry and free from oil. The surface

shall be clean and roughened to a joint depth of 2 1/4 inches to improve the bond between the concrete joint face and the sealant.

- b. The Contractor shall remove debris from the open joint with compressed air. The air shall be free of moisture and oil. Debris remaining from joint sealant removal and grit from sand blasting operations shall be removed from the joint. Sediment that is adjacent to the existing joint filler (which has been compressed and occupies only 50-70% of the joint) shall be removed to the full depth of the joint. The existing joint filler shall remain in place and be protected during joint cleaning work.
6. The Contractor shall notify the Engineer when the joint is prepared to receive filler and sealant and ready for inspection. The Contractor shall provide the Engineer 24 hours notice for inspection.
  7. Upon approval of the prepared open joint by the Engineer, the Contractor shall furnish and install joint filler and sealant in the existing expansion joints. The Engineer will direct the Contractor which of two sealant options to install depending on the condition of the existing joints. The Contractor shall furnish and install the joint filler and sealant in accordance with the manufacturer's recommendation and these specifications.
    - a. Backer rod, meeting the requirements of ASTM C1330 and Section 703.03.03, shall be installed in the open joint. The backer rod shall be approximately 25 percent larger than the joint opening. For joints with varying width, the Contractor shall order multiple sizes to provide a backer rod with a diameter that is approximately 25 percent larger than the existing joint width. The top surface of backer rod shall be 1 1/4 inch below the top surface of the channel slab, with a tolerance of plus or minus 1/8 inch. The backer rod shall be compatible with the sealant, and no bond or reaction shall occur between the backer rod and the sealant.
    - b. Bond breaker tape, meeting the requirements of Paragraph 707.03.03, shall be applied to the top surface of the existing joint filler to prevent the joint sealant from bonding to the top surface of the joint filler. The bond breaker tape shall cover the entire top surface of the joint filler without extending up the concrete joint faces. The bond breaker tape may be applied in more than one layer and overlapped in joints where the width varies.
    - c. A 2-component polyurethane pourable joint sealant (ACI 504R, Table 1, Type IV) meeting the requirements of Paragraph 707.03.02 shall be applied to seal the expansion joint. The sealant shall be self-leveling for flat surfaces and non-sagging for sloped and vertical joints. Primer shall be applied as recommended by the manufacturer. The two components shall be mixed in accordance with the manufacturer's recommendations, generally at low speed to avoid entrapment of air and for 3-5 minutes. The sealant edges shall be recessed 1/4 inch from the top surface of the existing concrete slab. The sealant shall be tooled with a 1/4 inch sag. The sealant shall be installed under favorable environmental conditions; the substrate shall be dry and when the air and substrate temperatures are 40 degrees F and rising and 90 degrees F and falling.
    - d. A preformed low density, closed cell, cross-linked ethylene vinyl acetate polyethylene copolymer, nitrogen blown compression joint seal, meeting the requirements of Section 707.03.05 shall be installed to seal the existing joint. Both concrete joint faces shall be prepared as described in Paragraph 5 above. The Contractor shall measure the joint widths and order the compression seal nominally 25 percent larger than the existing joint opening. The compression seal shall be bonded to both concrete faces of the joint with a 2-component epoxy adhesive that is compatible with the sealant. Apply the epoxy adhesive to coat the substrate to an approximate thickness of 40 mils. Next apply the epoxy adhesive to both sides of the joint material, enough to coat and fill the grooves, approximately 40 mils. Install the coated compression seal material so the top surface of the joint material is recessed approximately 1/2 inch below the joint edge. Compress the compression seal material and push the sealant into the open joint with the help of a blunt probe. Clean excess epoxy from the edges of the joint and from the top of the seal.

- i. For joints of varying width, the Contractor shall order multiple compression seal sizes. The Contractor shall cut and heat weld the compression seal where a change in joint width requires a change in compression seal size. The minimum compression of the seal is 16 percent and the maximum compression is 38 percent.
- ii. Directional changes in the joint material shall be performed using heat welding methods. Material that has been heat welded shall be cooled before mixing adhesives.
- iii. Each container of material shall be clearly labeled or each delivery of material in the tanks of 2-component equipment shall be accompanied with a ticket showing the designation (Component A or B), manufacturer's name, lot or batch number, date of manufacture, date of packing, and date, if any, beyond which the material shall not be used.
- iv. Contractor shall provide a manufacturer's representative on-site during installation to certify materials and proper installation procedures. A manufacturer's representative for patching material, 2-component polyurethane pourable joint sealant, and the compression seal shall provide technical guidance on proper installation procedures for their products. Comply with the manufacturer's installation recommendations for each application and submit manufacturer's certification to Engineer.

#### SECTION 502 CONCRETE STRUCTURES, SUBSECTION 502.04.01 MEASUREMENT

Add the following:

- U. The quantity of Repair Spalled Concrete Joint Face measured for payment will be the actual quantity of linear feet of spalled concrete face on each side of the joint repaired.
- V. The quantity of Rehabilitate Existing Channel Expansion Joint With Compression Seal measured for payment will be the actual quantity of linear feet of existing channel expansion joint rehabilitated.
- W. The quantity of Rehabilitate Existing Channel Expansion Joint With 2-Component Polyurethane Sealant measured for payment will be the actual quantity of linear feet of existing channel expansion joint rehabilitated.

#### SECTION 502 CONCRETE STRUCTURES, SUBSECTION 502.05.01 PAYMENT

Delete Paragraph B and replace with the following. Insert Paragraphs F and G and renumber the succeeding paragraphs. Insert three pay items in Paragraph L.

- B. The accepted quantities of 4'x4' Reinforced Concrete Box (Station 92+38.39 to 95+37.32) Owens Ave Crossing; 4'x4' Reinforced Concrete Box (Station 95+52.32 to 129+80.06) Set in Channel; 4'x4' Reinforced Concrete Box (Station 129+80.06 to 132+95.01) Installed in Bank-Chnl Modifications; 4'x4' Reinforced Concrete Box (Station 132+95.01 to 144+40.16) Set in Channel; 4'x4' Reinforced Concrete Box (Station 144+40.16 to 148+77.12) Bonanza Rd Crossing & Chnl Mod; 4'x4' Reinforced Concrete Box (Station 148+77.12 to 166+56.03) Set in Channel; 4'x4' Reinforced Concrete Box (Station 166+56.03 to 167+34.13) Cut & Cover; 4'x4' Reinforced Concrete Box (Station 178+30.50 to 179+35.59) Cut & Cover; 4'x4' Reinforced Concrete Box (Station 179+35.59 to 198+59.24) Set in Channel; 4'x4' Reinforced Concrete Box (Station 198+59.24 to 202+46.82) Charleston Blvd Crossing; 4'x4' Reinforced Concrete Box (Station 202+46.82 to 254+23.04) Set in Channel; 4'x4' Reinforced Concrete Box (Station 254+23.04 to 260+90.98) Sahara Ave Crossing; 4'x4' Reinforced Concrete Box (Station

260+90.98 to 272+24.37) Set in Channel, will be paid for at the contract unit price per Linear Foot shall include all labor, equipment and materials necessary to complete the work, including but not limited to preconstruction survey costs of adjacent properties and structures; potholing to determine location of existing utilities; remove existing roadway including sawcut and remove existing asphalt, remove existing aggregate base, remove existing curb and gutter, sidewalk, driveway, barrier rail, portions of bridge wingwall, signs, streetlight conduit and foundations, and salvage streetlight assembly; remove existing chain link fencing and gates; trench excavation; excavation vibration monitoring costs; disposing of excess material; shoring; grading; shaping; scarify and compact subgrade; bedding; aggregate base materials; sawcut and remove existing concrete channel invert slab, side slope slabs, access ramps, access ladders, wing walls, and headwalls, to the limits shown on the drawings; furnish and install precast RCBs to the limits shown on the drawings including manufacturing adjustments and forming for precast RCBs as required to meet the design centerline radius or angle points including elbows; furnish and install gaskets; furnish and install mortar bed for precast RCBs set on existing channel invert slab; drill and grout dowels to secure base of precast RCBs to existing channel slab; form, reinforce, place, and cure concrete for cast-in-place RCBs to the limits shown on the drawings; furnish and install pre-cast concrete RCB to RCP transitions; form, reinforce, place and cure concrete channel lining where existing lining was removed to install effluent drain, including invert slab, side slopes, access ramps and expansion joints; form, reinforce, place, and cure concrete slope paving; granular backfill; trench backfill; structure backfill; compaction; drain rock; water tight joints as required; dowels; furnish and place CLSM to the limits shown on the drawings; forming, reinforcing, placing and curing concrete for closure pour connections, headwalls and retaining walls including expansion joints; installation of drainage composite; excavation, subgrade preparation, and backfill for headwalls, retaining walls, and other structures; grout; joint water proofing; ready-mix flowable fill; pipe and manhole penetrations and connections; connection to existing structures; 24" RCP storm drain; installation and removal of temporary asphalt patching; protection and restoration of all existing/proposed facilities; support and protection of all utilities; replace roadway improvements including furnish and install aggregate base, furnish and install asphalt to the limits shown on the drawings, sidewalk, sidewalk ramps, driveway, barrier rail, striping, signage, streetlight conduit, foundation, and install salvaged streetlight assembly; furnish and install chain link fencing and gates; furnish and install post and cable fencing and gates; internal video inspection; and all other items necessary to complete the work.

- F. The accepted quantity of Repair Spalled Concrete Joint Face will be paid at the contract unit price per Linear Foot shall include all labor, equipment and materials necessary to complete the work, including removal of loose or damaged concrete; saw cutting; remove concrete within repair area below the saw cut; cleaning and sandblasting repair area; mix, place, consolidate, finish and cure rapid-hardening cementitious patching material; and all other items to protect the work.
1. The quantity for Pay Item "Repair Spalled Concrete Joint Face" was estimated as a basis for comparing bids.
  2. The Contractor will be paid for the quantity of work performed at the contract unit price bid even if the actual quantity varies from the estimated quantity by more than 25 percent. The provisions of Section 104.2, "Increased or Decreased Quantities and Change in Character of Work" shall not apply to this pay item.
  3. Contractor agrees that he will make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of work actually performed and materials actually furnished and the estimated amounts thereof.
- G. The accepted quantity of Rehabilitate Existing Channel Expansion Joints with Compression Seal and Rehabilitate Existing Channel Expansion Joint with 2-Component Polyurethane Sealant will be paid for at the contract unit price per Linear Foot shall include all labor, equipment and materials necessary to complete the work, including removal of existing sealant and backer rod, if present; remove existing joint filler; sand blast both concrete joint faces; remove all debris from joint; furnish and install one of two sealant options as directed by the Engineer: preformed, low density, closed cell, cross-linked ethylene vinyl acetate polyethylene copolymer nitrogen blown compression joint seal bonded in place with epoxy

adhesive or 2-component polyurethane pourable joint sealant backed with a closed cell polyethylene foam backer rod; manufacturer's representatives site visits; remobilization to rehabilitate all joints outside the limits of concrete box culvert footprint during favorable environmental conditions; and all other items necessary to complete the work.

- H. No direct payment shall be made for utility potholing as such. The cost thereof being considered as included in the price bid for the construction and installation to which such potholing is incidental or appurtenant.
- I. Unless otherwise provided in the Special Provisions, no payment will be made for trench excavation; structure excavation; subgrade preparation, bedding, trench backfill (selected, granular, or CLSM); structure backfill; and installation and/or removal of temporary pavement patching in accordance with Sections 206, 207, and 208. The cost thereof shall be considered as included in the price bid for Reinforced Concrete Box; Transition Structures and other items requiring excavation and backfill.
- J. Unless otherwise provided in the Special Provisions, dewatering will be paid for directly as a contract unit price per Lump Sum in accordance with Section 270 – Dewatering.
- K. All payments will be made in accordance with Subsection 109.02, "Scope of Payment".
- L. Payment will be made under:

<u>PAY ITEM</u>	<u>PAY UNIT</u>
4X4' REINFORCED CONCRETE BOX (STATION 92+38.39 TO 95+37.32) Owens Ave Crossing	LF
4X4' REINFORCED CONCRETE BOX (STATION 95+37.32 TO 129+80.06) Set in Channel	LF
4X4' REINFORCED CONCRETE BOX (STATION 129+80.06 TO 132+95.01) Installed in Bank-Chnl Modifications	LF
4'X4' REINFORCED CONCRETE BOX (STATION 132+95.01 TO 144+40.16) Set in Channel	LF
4'X4' REINFORCED CONCRETE BOX (STATION 144+40.16 TO 148+77.12) Bonanza Rd Crossing & Chnl Mod	LF
4'X4' REINFORCED CONCRETE BOX (STATION 148+77.12 TO 166+56.03) Set in Channel	LF
4'X4' REINFORCED CONCRETE BOX (STATION 166+56.03 TO 167+34.13) Cut & Cover	LF
4'X4' REINFORCED CONCRETE BOX (STATION 178+30.50 TO 179+35.59) Cut & Cover	LF
4'X4' REINFORCED CONCRETE BOX (STATION 179+35.59 TO 198+59.24) Set in Channel	LF
4'X4' REINFORCED CONCRETE BOX (STATION 198+59.24 TO 202+46.82) Charleston Blvd Crossing	LF
4'X4' REINFORCED CONCRETE BOX (STATION 202+46.82 TO 254+23.04) Set in Channel	LF
4'X4' REINFORCED CONCRETE BOX (STATION 254+23.04 TO 260+90.98) Sahara Ave Crossing	LF
4'X4' REINFORCED CONCRETE BOX (STATION 260+90.98 TO 272+24.37) Set in Channel	LF
Flood Wall (STATION 172+10.10 to 179+50.59)	LF
Flow Containment Curb	LF
Overflow Structure	LS
<b>502.17 Repair Spalled Concrete Joint Face</b>	<b>LF</b>
<b>502.18 Rehabilitate Existing Channel Expansion Joints with Compression Seal</b>	<b>LF</b>
<b>502.19 Rehabilitate Existing Channel Expansion Joint with 2-Component</b>	<b>LF</b>

## Polyurethane Sealant

### PLANS

3. The following are changes and/or clarifications to the plans for the above referenced project.

SHEET EF21 EFFLUENT PIPE PLAIN AND PROFILE, SLOAN CHANNEL, STA 194+00 TO STA 203+00.

Delete Note 1 in the profile view of the pipe. See Detail A in Sheet ST35 for a revised method to protect an existing LVVWD 16 inch ACP with 30 inch steel casing.

#### SHEET ST35 – EXPANSION JOINT DETAILS

A new sheet is issued which shows the details for rehabilitation of expansion joints in the existing concrete lining of Sloan Channel. The sheet also includes Detail A, which shows a concrete arch detail to protect an existing LVVWD 16 inch ACP with 30 inch steel casing near Station 200+56 and limits of CLSM backfill in the trench for the RCB effluent drain.

Except as modified herein, all other bid specifications, terms, conditions, and special provisions shall remain the same.

ISSUED BY:



THOMAS E. BOLDT, C.P.M.  
Senior Purchasing Analyst

Attachment(s): Revised Bid Form, pages 4-1 through 4-6  
New Plan Sheet ST35

cc: Roy Davis, Public Works  
Mike Mamer, Public Works

# CLARK COUNTY, NEVADA

## BID FORM

BID NO. Error! Reference source not found.

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PWP NUMBER: CL-2014-80

REVISED PER ADDENDUM 2

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(NAME)

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(ADDRESS)

### I, THE UNDERSIGNED BIDDER:

1. Agree, if awarded this Contract, I will complete all work for which a Contract may be awarded and to furnish any and all labor, equipment, materials, transportation, and other facilities required for the services as set forth in the Bidding and Contract Documents.
2. Have examined the Contract Documents and the site(s) for the proposed work and satisfied themselves as to the character, quality of work to be performed, materials to be furnished and as to the requirements of the specifications.
3. Have completed all information in the blanks provided and have submitted the following within this Bid:
  - a) Have listed the name of each Subcontractor which will be paid an amount exceeding five percent (5%) of the Total Base Bid amount.
  - b) Attached a bid security (in the form of, at my option, a Cashier's Check, Certified Check, Money Order, or Bid Bond in favor of the Owner in the amount of five percent (5%) of the Total Base Bid amount.
  - c) If claiming the preference eligibility, I have submitted a valid Certification of Eligibility with this Bid.
4. I acknowledge that if I am one of the three apparent low bidders at the bid opening, and if I have listed Subcontractor(s) pursuant to NRS 338.141, I must submit Bid Attachment 2 within two-hours after completion of the bid opening pursuant to the Instructions to Bidders, and I understand that hand delivery is recommended, and Owner shall not be responsible for lists received after the two hour time limit, regardless of the reason. This Attachment will be time stamped by the Purchasing and Contracts Division. I understand that submission after the two-hour time limit is not allowed and will be returned to me and the bid may be deemed non-responsive. I acknowledge that for:
  - a) Projects EXCEEDING \$5,000,000  
I need to list only Subcontractors that will provide labor/improvements exceeding one percent (1%) of the Prime Contractor's total base bid amount, or \$50,000.00, whichever is greater.
5. I acknowledge that if I am one of the apparent low bidders at bid opening, and if I have submitted the Certificate of Eligibility as required, I must submit BID ATTACHMENT 3, AFFIDAVIT PERTAINING TO PREFERENCE ELIGIBILITY, within two-hours after completion of the bid opening pursuant to the General Conditions and I understand that hand delivery is recommended, and Owner shall not be responsible for lists received after the two-hour time limit, regardless of the reason. This Bid Attachment will be time stamped by the Purchasing and Contracts Division. I understand that submission after the two-hour time limit is not allowed and will be returned to me and the bid may be deemed non-responsive.
6. I acknowledge that if I am one of the low bidder, I must submit the Disclosure of Ownership/Principals form within 24-hours of request.
7. I acknowledge that my bid is based on the current State of Nevada prevailing wages.
8. I acknowledge that I have not breached a public work contract for which the cost exceeds \$25,000,000, within the preceding year, for failing to comply with NRS 338.147 and the requirements of a contract in which I have submitted within 2 hours of the bid opening an Affidavit pertaining to preference eligibility.

9. Upon faxed or mailed receipt of a Notice of Intent to Award the Contract, I will provide the following submittals within seven business days from receipt of the Notice:
  - a) Performance Bond, Labor and Material Payment Bond and a Guaranty Bond, for 100% of the Contract amount as required.
  - b) Certificates of insurance for Commercial General Liability in the amount of \$1,000,000, Automobile Liability in the amount of \$1,000,000, and Workers' Compensation insurance issued by an insurer qualified to underwrite Workers' Compensation insurance in the State of Nevada, as required by law.
10. I acknowledge that if I do not provide the above submittals on or before the seventh business day after receipt of the Notice of Intent to Award; or do not keep the bonds or insurance policies in effect, or allow them to lapse during the performance of the Contract; I will pay over to the Owner the amount of **\$2,000** per day as liquidated damages.
11. I confirm this bid is genuine and is not a sham or collusive, or made in the interest of, or on behalf of any person not herein named, nor that the Bidder in any manner sought to secure for themselves an advantage over any bidders.
12. I further propose and agree that if my bid is accepted, I will commence to perform the work called for by the contract documents on the date specified in the Notice to Proceed and I will complete all work within the calendar days specified in the General Conditions.
13. I further propose and agree that I will accept as full compensation for the work to be performed the price written in the Bid Schedule below.
14. I have carefully checked the figures below and the Owner will not be responsible for any error or omissions in the preparation or submission of this Bid.
15. I agree no verbal agreement or conversation with an officer, agent or employee of the owner, either before or after the execution of the contract, shall affect or modify any of the terms or obligations of this Bid.
16. I am responsible to ascertain the number of addenda issued, and I hereby acknowledge receipt of the following addenda:

Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_ Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_

Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_ Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_

Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_ Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_

Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_ Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_

Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_ Addendum No. \_\_\_\_\_ dated, \_\_\_\_\_

17. I agree to perform all work described in the drawings, specifications, and other documents for the amounts quoted below:

BID SCHEDULE				
ITEM NUMBER	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	TOTAL
107.01	TRAFFIC CONTROL	360	DAY	\$
109.01	CONSTRUCTION CONFLICTS AND ADDITIONAL WORK	1	LS	\$800,000.00
109.02	HISTORICAL OWNER CAUSED DELAY ALLOWANCE	15	DAY	\$7,500.00
109.03	ADDITIONAL AMOUNT OVER \$500.00/DAY AS DETERMINED BY BIDDER	15	DAY	\$

<b>BID SCHEDULE</b>				
ITEM NUMBER	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	TOTAL
200.01	MOBILIZATION	1	LS	\$
270.01	DEWATERING	1	LS	\$
502.01	4'X4' REINFORCED CONCRETE BOX (STATION 92+38.39 TO 95+37.32) OWENS AVE CROSSING	299	LF	\$
502.02	4'X4' REINFORCED CONCRETE BOX (STATION 95+37.32 TO 129+80.06) SET IN CHANNEL	3,443	LF	
502.03	4'X4' REINFORCED CONCRETE BOX (STATION 129+80.06 TO 132+95.01) INSTALLED IN BANK-CHNL MODIFICATIONS	315	LF	
502.04	4'X4' REINFORCED CONCRETE BOX (STATION 132+95.01 TO 144+40.16) SET IN CHANNEL	1,146	LF	
502.05	4'X4' REINFORCED CONCRETE BOX (STATION 144+40.16 TO 148+77.12) BONANZA RD CROSSING & CHNL MOD	437	LF	
502.06	4'X4' REINFORCED CONCRETE BOX (STATION 148+77.12 TO 166+56.03) SET IN CHANNEL	1,779	LF	
502.07	4'X4' REINFORCED CONCRETE BOX (STATION 166+56.03 TO 167+34.13) CUT & COVER	79	LF	
502.08	4'X4' REINFORCED CONCRETE BOX (STATION 178+30.50 TO 179+35.59) CUT & COVER	106	LF	
502.09	4'X4' REINFORCED CONCRETE BOX (STATION 179+35.59 TO 198+59.24) SET IN CHANNEL	1,924	LF	
502.10	4'X4' REINFORCED CONCRETE BOX (STATION 198+59.24 TO 202+46.82) CHARLESTON BLVD CROSSING	388	LF	
502.11	4'X4' REINFORCED CONCRETE BOX (STATION 202+46.82 TO 254+23.04) SET IN CHANNEL	5,177	LF	
502.12	4'X4' REINFORCED CONCRETE BOX (STATION 254+23.04 TO 260+90.98) SAHARA AVE CROSSING	668	LF	
502.13	4'X4' REINFORCED CONCRETE BOX (STATION 260+90.98 TO 272+24.37) SET IN CHANNEL	1,134	LF	
502.14	FLOOD WALL (STATION 172+10.10 TO 179+50.59)	737	LF	
502.15	FLOW CONTAINMENT CURB	3,008	LF	
502.16	OVERFLOW STRUCTURE	1	LS	
502.17	REPAIR SPALLED CONCRETE JOINT FACE	720	LF	
502.18	RAHBILITATE EXISTING CHANNEL EXPANSION JOINTS WITH COMPRESSION SEAL	4,470	LF	
502.19	RAHABILITATE EXISTING CHANNEL EXPANSION JOINTS WITH TWO (2) COMPONENT POLYURETHANE SEALANT	13,930	LF	
603.01	48-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 15+56.49 TO 15+86.74)	27	LF	
603.02	54-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 16+02.12 TO 52+45.40) CUT & COVER	3,632	LF	
603.03	54-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 52+45.40 TO 53+22.73) JUDSON CROSSING	78	LF	
603.04	54-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 53+22.73 TO 65+84.67) CUT & COVER	1,258	LF	
603.05	54-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 65+84.67 TO 67+09.02) LAKE MEAD BLVD CROSSING	120	LF	

<b>BID SCHEDULE</b>				
<b>ITEM NUMBER</b>	<b>ITEM DESCRIPTION</b>	<b>APPROX. QUANTITY</b>	<b>UNIT</b>	<b>TOTAL</b>
603.06	54-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 67+14.02 TO 92+38.39) CUT & COVER	2,510	LF	
603.07	54-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 167+34.13 TO 170+94.52) CUT & COVER	356	LF	
603.08	54-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 172+54.52 TO 178+30.50) CUT & COVER	571	LF	
603.09	36-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 144+60.16 TO 148+77.12) CUT & COVER	417	LF	
603.10	36-INCH REINFORCED CONCRETE PIPE CLASS III (STATION 254+23.04 TO 260+90.98) CUT & COVER	659	LF	
609.01	EFFLUENT MANHOLE TYPE 1	5	EA	
609.02	EFFLUENT MANHOLE TYPE 2	7	EA	
609.03	ACCESS MANHOLE	8	EA	
609.04	TYPE III STORM DRAIN MANHOLE	2	EA	
609.05	REMOVE AND REPLACE NDOT TYPE 2 DROP INLET	1	EA	
609.06	REMOVE AND REPLACE TYPE A DROP INLET	2	EA	
609.07	ADJUST EXISTING MANHOLE TO FINISH GRADE	1	EA	
629.01	8-INCH DUCTILE IRON PIPE - CLASS 350 WATERLINE	32	LF	
629.02	12-INCH DUCTILE IRON PIPE - CLASS 350 WATERLINE	27	LF	
629.03	14-INCH DUCTILE IRON PIPE- CLASS 250 WATERLINE	33	LF	
629.04	VERTICAL ADJUST WATER VALVE BOX	3	EA	
630.01	8-INCH C900 PVC SANITARY SEWER	20	LF	
630.02	12-INCH PVC SDR-35 SANITARY SEWER	94	LF	
630.03	15-INCH C905 PVC SANITARY SEWER	15	LF	
630.04	48-INCH SANITARY SEWER MANHOLE	2	EA	
630.05	ADJUST SEWER MANHOLE TO FINISH GRADE	11	EA	
637.01	DUST CONTROL	1	LS	
637.02	STORM WATER POLLUTION CONTROL	1	LS	
637.03	DUST PALLIATIVE W/ PRE-EMERGENT HERBICIDE	3.6	ACRE	
637.04	GRAVEL MULCH	2.5	ACRE	
650.01	54-INCH REINFORCED CONCRETE PIPE (STATION 170+94.52 TO 172+54.52) STEWART AVENUE CROSSING-JACK & BORE	160	LF	
<b>TOTAL BASE BID</b>				<b>\$</b>



18. BUSINESS ENTERPRISE INFORMATION:

The Prime Contractor submitting this Bid is a  MBE  WBE  PBE  SBE  NBE  LBE as defined in the Instructions to Bidders.

19. BUSINESS ETHNICITY INFORMATION:

The Prime Contractor submitting the Bid Ethnicity is  Caucasian (CX)  African American (AA)  Hispanic American (HA)  Asian Pacific American (AX)  Native American (NA)  Other as defined in the Instructions to Bidders.

20. BIDDERS' PREFERENCE Is the Bidder claiming Bidders' Preference?

Yes If yes, the Bidder acknowledges that he/she is required to follow the requirements set forth in the Affidavit (Bid Attachment 3).

No I do not have a Certificate of Eligibility to receive preference in bidding.

21.

\_\_\_\_\_  
LEGAL NAME OF FIRM AS IT WOULD APPEAR IN CONTRACT

\_\_\_\_\_  
ADDRESS OF FIRM

\_\_\_\_\_  
CITY, STATE, ZIP CODE

\_\_\_\_\_  
TELEPHONE NUMBER

\_\_\_\_\_  
FAX NUMBER

NEVADA STATE CONTRACTORS' BOARD LICENSE INFORMATION:

I certify that the license(s) listed below will be the license(s) used to perform the majority of the work on this project.

LICENSE NUMBER: \_\_\_\_\_

LICENSE CLASS: \_\_\_\_\_

LICENSE LIMIT: \_\_\_\_\_

ONE TIME LICENSE LIMIT INCREASE \$ \_\_\_\_\_ IF YES, DATE REQUESTED \_\_\_\_\_

CLARK COUNTY BUSINESS LICENSE NO. \_\_\_\_\_

STATE OF NEVADA BUSINESS LICENSE NO. \_\_\_\_\_

\_\_\_\_\_  
AUTHORIZED REPRESENTATIVE  
(PRINT OR TYPE)

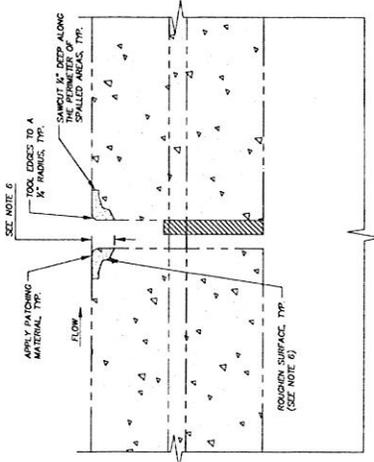
\_\_\_\_\_  
E-MAIL ADDRESS

\_\_\_\_\_  
SIGNATURE OF AUTHORIZED  
REPRESENTATIVE

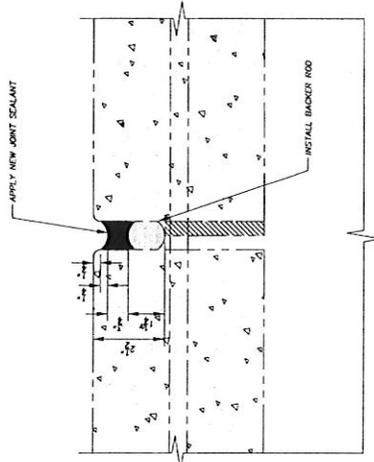
\_\_\_\_\_  
TODAY'S DATE

**EXPANSION JOINT REPAIR PROCEDURE**

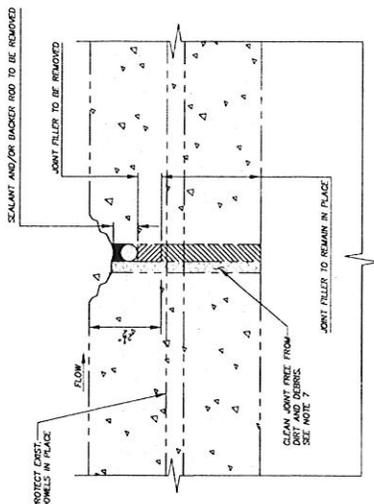
1. DIVERT EXISTING FLOWS AWAY FROM THE REPAIR ZONE AND KEEP THE WORKING AREA CLEAN AND DRY.
2. PUMPING OF UNDERGROUND WATER WILL BE REQUIRED IN SECTIONS OF THE CHANNEL WHERE THE GROUNDWATER ELEVATION IS ABOVE THE INVERT. CLEAN AND USE THE EXISTING VERTICAL WEEP HOLES TO REMOVE WATER FROM THE JOINT TO PUMP AND MAINTAIN THE GROUNDWATER ELEVATION BELOW THE REPAIR WORK.
3. REMOVE EXISTING SEALANT.
4. REMOVE EXISTING BACKER ROD.
5. REMOVE EXISTING JOINT FILLER TO A DEPTH OF 3/4" FROM THE TOP SURFACE OF CHANNEL SLAB. THE LOWER PORTION OF THE JOINT FILLER IS TO REMAIN IN PLACE. BE CAREFUL NOT TO DAMAGE THE CHANNEL.
6. SPALLED JOINT EDGES UP TO 1/2" DEEP CAN BE IGNORED. SPALLS LARGER THAN 1/2" DEEP SHALL BE REPAIRED WITH CONCRETE PATCHING MATERIAL. ALL NEW JOINT CONCRETE SHALL BE TOoled TO A 1/4" RADIUS.
7. CLEAN THE JOINT AND ADJACENT SURFACES FROM DIRT AND DEBRIS USING A HIGH PRESSURE WASHER. 8.000 PSI. CONCRETE FACES SHALL BE CLEANED WITH HIGH PRESSURE WATER TO IMPROVE THE BOND BETWEEN THE CONCRETE AND THE SEALANT.
9. REPLACE THE JOINT AS FOLLOWS:
  - A) USE TYPICAL DETAIL 1/ST35 ON CHANNEL SECTIONS WITH UNIFORM JOINT OPENINGS. INSTALL A BOND BREAKER AND THE SELECTED COMPRESSION JOINT MATERIAL WHICH SHALL BE EPoxy BONDED TO THE CONCRETE SURFACES. THE SEALANT SHALL BE APPLIED TO THE JOINT WITH THE JOINT FILLER. THE COMPRESSION JOINT SHALL BE RECESSED 1/2" INTO THE JOINT TO CLEAR ANY SPALLS. EDGES AND SHALL BE CONTINUOUS ALONG THE JOINT. HEAT-WELDED SPLICES MAY BE ALLOWED ONLY UNDER DIRECT SUPERVISION OF THE ENGINEER.
  - B) CLEAN THE JOINT AND ADJACENT SURFACES FROM DIRT AND DEBRIS USING A HIGH PRESSURE WASHER. 8.000 PSI. CONCRETE FACES SHALL BE CLEANED WITH HIGH PRESSURE WATER TO IMPROVE THE BOND BETWEEN THE CONCRETE AND THE SEALANT.
  - C) OBTAIN 1/2" RECESS IN THE JOINT AND 1/4" SAG IN THE SEALANT TOP SURFACE. THE SEALANT THICKNESS AT THE POINT SHALL NOT EXCEED 1/2" REGARDLESS OF THE JOINT WIDTH (VARYING FROM 1/2" TO 1 1/2"). THE SEALANT MAY SPREAD BEYOND THE JOINT WIDTH IN AREAS WHEN THE SPALL DEPTH EXCEEDS 1/2".
10. FOR A LIST OF EXPANSION JOINT LOCATIONS REFER TO SHEET ST34.
11. EXPANSION JOINT RENOVATION WORK BETWEEN CARY AVENUE AND CHARLESTON BOULEVARD.



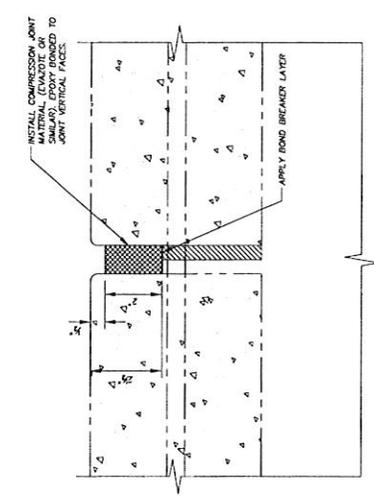
**SPALL EDGES REPAIR DETAIL**  
SCALE: 6"=1'-0"



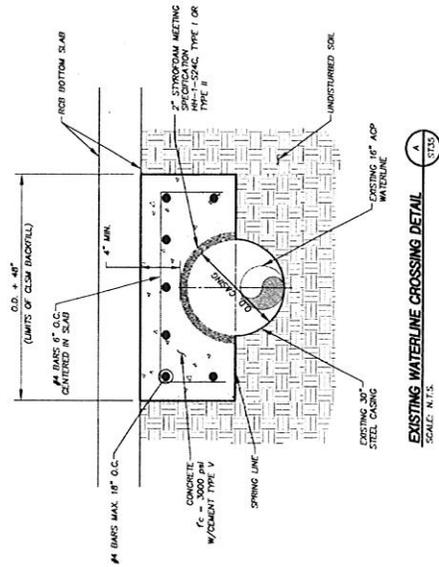
**EXPANSION JOINT REPLACEMENT DETAIL ALTERNATIVE**  
SCALE: 6"=1'-0"



**JOINT REMOVAL AND CLEANING DETAIL**  
SCALE: 6"=1'-0"



**TYPICAL EXPANSION JOINT REPLACEMENT**  
SCALE: 6"=1'-0"



**EXISTING WATERLINE CROSSING DETAIL**  
SCALE: N.T.S.

REV.	DATE	DESCRIPTION	APPROVED



SLOAN CHANNEL EFFLUENT DRAIN CONNECTION AND DISCHARGE PIPE  
EXPANSION JOINT DETAILS  
**CLARK COUNTY DEPARTMENT OF PUBLIC WORKS**

**ATKINS**  
SCALE: HORIZ: VERT: FIELD BOOK  
DATE: OCTOBER 2013  
DESIGNED BY: J. LEE  
CHECKED BY: F. PENARIEL  
DRAWN BY: D. EVANS  
JOB NO: 100033523  
CC PROJ. NO: BR40224  
I. DATE: 06-2013

SHEET No. **ST35**