



March 5, 2015

Noel Ortiz, P.E. – RWRD Project Manager  
Pima County Regional Wastewater Reclamation Department  
3355 N. Dodge Blvd.  
Tucson, AZ 85716

**RE: Name: Construction Manager at Risk for North Rillito Interceptor Rehabilitation**  
**Project No.: 3NRI14**  
**Contract No.: CT-WW-0000000000000000189**  
**B&F Job No.: 3150**

**SUBJECT: GMP-2 PROPOSAL & SUPPORTING EXHIBITS**

Dear Mr. Ortiz,

We are pleased to submit our Guaranteed Maximum Price Proposal (GMP-2), in accordance with the Pre-construction Phase Services Contract on the North Rillito Interceptor Rehabilitation Project No. 3NRI14. Attached to this cover letter you will find B&F Contracting, Inc.'s GMP-2 Proposal Packaged dated March 5, 2015, for this Construction Manager at Risk Project.

B&F proposes to complete the work associated with GMP-2 for a not-to-exceed amount of **\$11,756,766.00**. See below for the current GMP summary of costs, including the original design phase services contract:

**DESIGN PHASE SERVICES:**

Design Phase Services:	\$ 189,292.90
<u>Amendment No. 01</u>	<u>\$ 485,960.88</u>
Design Phase Total:	\$ 675,253.78

**CONSTRUCTION PHASE SERVICES:**

GMP-1:	\$ 5,126,680.51
<u>GMP-2:</u>	<u>\$11,756,766.00</u>
GMP-1 & GMP-2 Total:	\$16,883,446.51

**COMBINED SERVICES TOTAL:**

Design Phase:	\$675,253.78
<u>GMP-1 &amp; 2:</u>	<u>\$16,883,446.51</u>
Current Total:	\$17,558,700.29

The team at B&F Contracting, Inc. wants to thank Pima County RWRD for the opportunity to provide our proposal on this CMAR. If you have any questions about this proposal, please contact Dan Foley at (520) 840-9785.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dan Foley', is written over a horizontal line.

Dan Foley – Project Manager  
dfoley@bfcontracting.com  
B&F Contracting, Inc.

## **EXHIBIT A**

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<b>Project Location</b>	Woodland Rd. to Campbell Rd.	<b>B&amp;F Job #:</b>	3150

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## EXHIBIT A.1

### SCOPE OF WORK

#### Construction Manager at Risk for Pima County Regional Wastewater Reclamation Department - North Rillito Interceptor Rehabilitation Project

Project No.	3NRI14	Date:	3/10/2015
Project Title	North Rillito Interceptor Rehab Project	GMP:	2
Project Location	Woodland Rd. to Campbell Rd.	B&F Job #:	3150

#### GMP-2 Scope of Work

GMP-2 includes costs associated with the Cured-In-Place Pipe (CIPP) Lining, Manhole Rehabilitation/Coating work, Manhole Adjustments, Manhole Reconstruction, Manhole Concrete Collars, CIPP Inversion Access, Temporary Suction Manhole Access and Cleaning & CCTV Activities. GMP also includes Clearing, Grubbing, Removals, Replacements and Restoration Activities throughout the project. Environmental permit coordination for Nationwide Permits of US Waters and their requirements including Biological Evaluation and Jurisdictional Delineation Review. Flow management plan costs for Phase 4, including installation, operation and teardown. Includes all trenching requirements for the flow management plan. This GMP-2 also includes Quantity Variation costs of 3% for CIPP & MH Rehab quantities.

#### Project Overview

This project consists of the rehabilitation of approximately 53,000 LF (10 miles) of wastewater lines using the Cured-In-Place-Pipe (CIPP) Lining Method, including the evaluation and repair of approximately 100 manholes using epoxy coating, and the reconstruction/replacement of approximately 20 manhole. The selected stretch to be rehabilitated is from North Campbell Avenue in the West, downstream end, to North Woodland Road at the east, upstream end, mainly along the North bank of the Rillito River. Starting at Manhole 1708-13 approximately 1,200 feet West of North Campbell Ave., and ending at MH 8716-20 North Woodland Road, in an West-East Direction. The sewer line sizes range from 15 to 36 inches in diameter, with existing material including asbestos cement pipe (ACP), vitrified clay pipe (VCP), and t-lock reinforced concrete pipe (RCP).

During a CCTV Inspection project conducted in 2003, the system-wide inspection and assessment of sewer pipe identified defects in the sewer system requiring repair. The National Association of Sewer Service Companies (NASSCO) grading system was used to evaluate the pipe condition. This grading system rates pipe from Grade 1 to Grade 5, with Grade 1 being acceptable condition and Grade 5 being imminent failure. Follow up CCTV inspections conducted in 2006 and later in 2012 established that the North Rillito Interceptor (NRI) requires rehabilitation.

## **EXHIBIT A.2**

### **SUMMARY OF THE GMP**

#### **Construction Manager at Risk for Pima County Regional Wastewater Reclamation Department - North Rillito Interceptor Rehabilitation Project**

##### **SUMMARY OF THE GMP:**

##### **ITEM 0.0 GENERAL REQUIREMENTS**

##### **Item 0.1 Traffic Control for Phases 3, 4 & 6**

Includes all implementation of traffic control planning, permitting and rental of devices throughout the construction of phases 3, 4 and 6. This includes costs for setup, rental and teardown of the barricade devices. Traffic flaggers were included for areas in residential roadways where restrictions are limited to one lane.

##### **Item 0.2 Permit Fees (Owner Contingency)**

Permit fee allowance for Right-of-Way requirements, traffic control permit plans, hydrant meter fees, and all other associated permit fees for phases 3, 4 and 6. Also includes any excavation permits required within the City of Tucson.

##### **Item 0.3 Construction Water**

Costs for construction water obtained from metered hydrants throughout phases 3, 4 and 6. Includes water use from CIPP lining, dust control efforts and flow management plan hydrostatic testing.

##### **Item 0.4 PDEQ Dust Control Permit**

Dust control permit cost from PDEQ for disturbed areas within Phases 3, 4 and 6. Each phase will require separate permits.

##### **Item 0.5 Dust Control**

Includes dust control throughout the project for phases 3, 4 and 6. Includes a water truck and truck driver to mitigate dust generating activities.

##### **Item 0.6 SWPPP BMP's for Phases 3, 4 and 6**

Includes all costs associated with the implementation of the Storm Water Pollution Prevention Planning (SWPPP) BMP's. This includes 9-inch and 12-inch straw wattles, and curb inlet guards. Includes implementation, installation, maintenance and removal of BMP's by B&F crews around spoil piles and disturbed areas within phases 3, 4 & 6. Gravel pads to be installed and maintained at all NRI staging areas defined on the project plan. Line item also includes bi-weekly inspections as required by the SWPPP plan, as well as inspections after large rain events.

**Item 0.7 Materials Testing and Quality Control for Phases 3, 4 & 6**

Includes costs associated with all material performance testing and quality control for phases 3, 4 & 6. This includes all density/compaction testing for excavation and backfill related work. Also includes concrete compression testing, asphalt testing, resistivity, sieve analysis and special testing for rebar/reinforcing. Includes all reporting requirements signed and/or sealed by a professional engineer.

**Item 0.8 Street Sweeping Services**

Includes costs for street sweeping services for work near large arterial roadways (River Rd., Craycroft Rd., Swan, Alvernon Way & Campbell Rd.). This will be used for maintaining a clean jobsite and for final cleaning of the roadways within phases 3, 4 and 6.

**Item 0.9 Project Signage**

Includes furnishing and installing project signage at each of the six (6) phases along the Loop Bike Path, NRPR Parks, and upstream and downstream of the work areas. Quantities estimated are consistent with the final signage plan developed for Phase 5, which was used as a template for the remaining phases.

**ITEM 1.0 FLOW MANAGEMENT PLAN PHASE 4 (Craycroft Rd. to Swan Rd.)**

**Item 1.1 Phase 4 Flow Management Plan**

Includes installation, testing, operation and teardown of Phase 4 Flow Management System during CIPP, MH Rehab and MH Repair activities. Phase 4 runs along Craycroft Rd., starting north of the Rillito, and ending south of the Rillito discharging into the 48-inch SRI. This system is approximately 3,000 LF in length from the suction to the discharge point at the main pump station, as well as two (2) smaller 12" and 8" SS lateral setups.

**Item 1.2 Trenching and Asphalt Work for Discharge Pipe – Phase 4 (Craycroft to Swan Rd.)**

Includes all trenching, backfill, compaction and asphalt restoration work associated with the discharge pipe located at private driveways, businesses or major roadways within Phase 4. HDPE discharge pipe for the Flow Management Plan will need to be trenched at these areas to provide continuous access to residents and businesses at each of the phases.

**Item 1.3 Vactor Truck Pumping**

Includes the use of Vactor Trucks for pumping smaller, tributary sewer lines where fewer than 20-40 houses reside. This will be used for areas where access is limited, and a standard pump and pipe system will not work.

**Item 1.4 New Suction MH Access Installation**

Includes costs for the installation of new manholes used for pumping access during flow management. These will be needed for areas where access is limited around existing manhole structures, and B&F is required to move upstream. This includes excavation, removal of existing mh barrel material, saw-cutting of the top of pipe, new precast barrel stack-out, backfill and compaction.

**ITEM 2.0 CIPP LINING, CLEANING, CCTV & ODOR CONTROL**

**Item 2.1 – Phase 1 CIPP Lining (Woodland Rd. to Sabino Creek Wash)**

Includes the use of Cured-In-Place Pipe (CIPP) Lining trenchless technology to rehabilitate approximately 8,525 LF of existing 15-inch, 18-inch and 24-inch sewer. The existing lined ACP sewer reaches in this area are in a severely deteriorated condition with swelling, delamination and flaking occurring throughout the pipe. Water cure inversion has been selected as the required curing method throughout this entire project. A continuous temperature monitoring system will be utilized for all CIPP installations, as well as a pre-liner installed prior to the final CIPP product. Structural calculations for the CIPP are designed for a fully structural pipe, accounting for a fully deteriorated host pipe.

Item 2.2 – Phase 2 CIPP Lining (Sabino Creek Wash to Sabino Canyon Rd.)

Includes the use of Cured-In-Place Pipe (CIPP) Lining trenchless technology to rehabilitate approximately 6,589 LF of existing 21-inch, 24-inch and 27-inch sewer. The existing lined ACP sewer reaches in this area are in a severely deteriorated condition with swelling, delamination and flaking occurring throughout the pipe. Water cure inversion has been selected as the required curing method throughout this entire project. A continuous temperature monitoring system will be utilized for all CIPP installations, as well as a pre-liner installed prior to the final CIPP product for ACP reaches. Structural calculations for the CIPP are designed for a fully structural pipe, accounting for a fully deteriorated host pipe.

Item 2.3 – Phase 3 CIPP Lining (Sabino Canyon Rd. to Craycroft Rd.)

Includes the use of Cured-In-Place Pipe (CIPP) Lining trenchless technology to rehabilitate approximately 10,678 LF of existing 27-inch and 30-inch sewer. The existing lined ACP and Unlined RCP sewer reaches in this area are in a severely deteriorated condition with swelling, delamination, exposed rebar, spalling and flaking occurring throughout the pipe. Water cure inversion has been selected as the required curing method throughout this entire project. A continuous temperature monitoring system will be utilized for all CIPP installations, as well as a pre-liner installed prior to the final CIPP product for ACP reaches. Structural calculations for the CIPP are designed for a fully structural pipe, accounting for a fully deteriorated host pipe.

Item 2.4 – Phase 4 CIPP Lining (Craycroft Rd. to Swan Rd.)

Includes the use of Cured-In-Place Pipe (CIPP) Lining trenchless technology to rehabilitate approximately 5,442 LF of existing 30-inch and 33-inch sewer. The existing unlined RCP sewer reaches in this area are in a severely deteriorated condition with exposed rebar, and spalling occurring throughout the pipe. Water cure inversion has been selected as the required curing method throughout this entire project. A continuous temperature monitoring system will be utilized for all CIPP installations. Structural calculations for the CIPP are designed for a fully structural pipe, accounting for a fully deteriorated host pipe.

Item 2.5 – Phase 5 CIPP Lining (Swan Rd. to Alvernon Way)

Includes the use of Cured-In-Place Pipe (CIPP) Lining trenchless technology to rehabilitate approximately 5,383 LF of existing 33-inch sewer. The existing unlined RCP sewer reaches in this area are in a severely deteriorated condition with exposed rebar, and spalling occurring throughout the pipe. Water cure inversion has been selected as the required curing method throughout this entire project. A continuous temperature monitoring system will be utilized for all CIPP installations. Structural calculations for the CIPP are designed for a fully structural pipe, accounting for a fully deteriorated host pipe.

Item 2.6 – Phase 6 CIPP Lining (Alvernon Way to Campbell Rd.)

Includes the use of Cured-In-Place Pipe (CIPP) Lining trenchless technology to rehabilitate approximately 14,801 LF of existing 33-inch and 36-inch sewer. The existing lined and unlined RCP sewer reaches in this area are in a severely deteriorated condition with exposed rebar, PVC lining delamination and

spalling occurring throughout the pipe. Water cure inversion has been selected as the required curing method throughout this entire project. Portions of the T-Lock lining will be removed at the inversion and tail manholes of the CIPP Lining for mechanical lock-in of the liner. A continuous temperature monitoring system will be utilized for all CIPP installations. Structural calculations for the CIPP are designed for a fully structural pipe, accounting for a fully deteriorated host pipe.

#### Item 2.7 – CIPP Lining Repair

Includes the patching and spot repairing of the CIPP liner using Neopoxy or a compatible epoxy coating product. This point repair method does not include traditional pipe repair methods, but will be mainly used for cosmetic re-work for removal of large wrinkles or bumps.

#### Item 2.8 – HCS Reinstatement Using Robotic Cutter

Includes the reinstatement of any house connection services (HCS), or sewer laterals encountered within the existing North Rillito Interceptor.

#### Item 2.9 – CIPP Inversion Access – Removal of Existing MH Cones

This work includes the excavation and removal of existing manhole cone or barrel sections to improve access for CIPP inversion points. Additional inversion access points may be installed upstream or downstream of existing manholes that provide better access than existing manholes. This is an owner contingency item.

#### Item 2.10 – Cleaning & CCTV

This bid item includes cleaning and CCTV of the North Rillito Interceptor prior to the start of CIPP Lining Operations. This includes removal and cleaning existing debris in the sewer line using a Vactor truck and jetter nozzle prior to the Pre-CCTV video. Once the cleaning work is finished, pre-video will be performed on the sewer reach to verify the interceptor has been clean and is ready to receive the new liner. After the installation and curing of the new liner, post video will be required to confirm the condition of the new liner and final footages, in compliance with NASSCO Standards. Post video will need to be performed by NASSCO Certified Operators, consistent with current work for Pima County RWRD. Pre and post videos to be performed or compatible with Granite XP Software, including color pipe-run logs.

#### Item 2.11 – Post Video Jetter/Nozzle Sweep

Includes costs for Pro-Pipe vactor to follow camera downstream and sweep debris to provide clean and debris free post video.

#### Item 2.12 – Installation, Removal Odor Scrubbers & Carbon Filter Recharge

Includes the installation of two (2) Calgon Carbon Odor Control Scrubbers for each phase of the NRI Project. Scrubbers to be installed upstream of the suction manhole and downstream of the discharge manhole. Scrubbers to be moved to the new location of each phase. Also includes the replacement or re-charging of the carbon filter media after four (4) months.

#### Item 2.13 – Monthly Rental of Carbon Odor Control Scrubbers

Includes the monthly rental of two (2) each odor control scrubber units and the 25 kilowatt generators required to run the units. Rental period is estimated at six (6) months.

**ITEM 3.0 MANHOLE COATINGS, REHABILITATION, REPAIRS, FRAME/COVERS & CONCRETE COLLARS****Item 3.1 – Phase 1 Coatings & Rehabilitation (Woodland Rd. to Sabino Creek Wash)**

Includes the coating rehabilitation of 181 VF. This work consists of epoxy coating and rehabilitation of existing deteriorated manholes along the NRI sewer alignment. Activities include the cleaning, surface preparation, underlayment and final epoxy coating finish. All epoxy coating work to be performed by certified applicators installing the Sewer Shield product. Coating applicators to strictly adhere to confined space entry procedures for all manned entries of any manholes and/or existing structures. This includes air monitoring with gas detectors, tripod, winch and harnesses for entry equipment. Final Testing of the manholes for spark testing to be performed by Independent 3<sup>rd</sup> Party NACE Level 3 Certified Inspectors.

**Item 3.2 – Phase 2 Coatings & Rehabilitation (Sabino Creek Wash to Sabino Canyon Rd.)**

Includes the coating rehabilitation of 160 VF. This work consists of epoxy coating and rehabilitation of existing deteriorated manholes along the NRI sewer alignment. Activities include the cleaning, surface preparation, underlayment and final epoxy coating finish. All epoxy coating work to be performed by certified applicators installing the Sewer Shield product. Coating applicators to strictly adhere to confined space entry procedures for all manned entries of any manholes and/or existing structures. This includes air monitoring with gas detectors, tripod, winch and harnesses for entry equipment. Final Testing of the manholes for spark testing to be performed by Independent 3<sup>rd</sup> Party NACE Level 3 Certified Inspectors.

**Item 3.3 – Phase 3 Coatings & Rehabilitation (Sabino Canyon Rd. to Craycroft Rd.)**

Includes the coating rehabilitation of 423 VF. This work consists of epoxy coating and rehabilitation of existing deteriorated manholes along the NRI sewer alignment. Activities include the cleaning, surface preparation, underlayment and final epoxy coating finish. All epoxy coating work to be performed by certified applicators installing the Sewer Shield product. Coating applicators to strictly adhere to confined space entry procedures for all manned entries of any manholes and/or existing structures. This includes air monitoring with gas detectors, tripod, winch and harnesses for entry equipment. Final Testing of the manholes for spark testing to be performed by Independent 3<sup>rd</sup> Party NACE Level 3 Certified Inspectors.

**Item 3.4 – Phase 4 Coatings & Rehabilitation (Craycroft Rd. to Swan Rd.)**

Includes the coating rehabilitation of 141 VF. This work consists of epoxy coating and rehabilitation of existing deteriorated manholes along the NRI sewer alignment. Activities include the cleaning, surface preparation, underlayment and final epoxy coating finish. All epoxy coating work to be performed by certified applicators installing the Sewer Shield product. Coating applicators to strictly adhere to confined space entry procedures for all manned entries of any manholes and/or existing structures. This includes air monitoring with gas detectors, tripod, winch and harnesses for entry equipment. Final Testing of the manholes for spark testing to be performed by Independent 3<sup>rd</sup> Party NACE Level 3 Certified Inspectors.

**Item 3.5 – Phase 5 Coatings & Rehabilitation (Swan Rd. to Alvernon Way)**

Includes the coating rehabilitation of 220 VF. This work consists of epoxy coating and rehabilitation of existing deteriorated manholes along the NRI sewer alignment. Activities include the cleaning, surface preparation, underlayment and final epoxy coating finish. All epoxy coating work to be performed by certified applicators installing the Sewer Shield product. Coating applicators to strictly adhere to confined space entry procedures for all manned entries of any manholes and/or existing structures. This includes air monitoring with gas detectors, tripod, winch and harnesses for entry equipment. Final Testing of the manholes for spark testing to be performed by Independent 3<sup>rd</sup> Party NACE Level 3 Certified Inspectors.



Item 3.6 – Phase 6 Coatings & Rehabilitation (Alvernon Way to Campbell Rd.)

Includes the coating rehabilitation of 653 VF. This work consists of epoxy coating and rehabilitation of existing deteriorated manholes along the NRI sewer alignment. Activities include the cleaning, surface preparation, underlayment and final epoxy coating finish. All epoxy coating work to be performed by certified applicators installing the Sewer Shield product. Coating applicators to strictly adhere to confined space entry procedures for all manned entries of any manholes and/or existing structures. This includes air monitoring with gas detectors, tripod, winch and harnesses for entry equipment. Final Testing of the manholes for spark testing to be performed by Independent 3<sup>rd</sup> Party NACE Level 3 Certified Inspectors.

Item 3.7 – 3 Year Warranty/Maintenance Bond

This item includes a 3 Year warranty/maintenance bond for the manhole coating and rehabilitation work. Written to Pima County RWRD.

Item 3.8 – Re-Work for Cosmetic Smooth Finish – 1 Hour per MH

Includes an hourly rate for time and material efforts for cosmetic rework of the finished coating surface of the epoxy product. Efforts were estimated at 1 hour of re-work at each of the 126 existing manholes.

Item 3.9 – Sabino Creek Siphon Inlet & Outlet Structure

This scope item includes the complete coating rehabilitation of the existing Sabino Creek Siphon Inlet and Outlet Structure (4466-IN and 4466-OUT). Also includes replacement of existing redwood diversion stop logs. Coating to be applied by certified applicators using the Environmental Coatings Sewer Shield product.

Item 3.10 – New Siphon Inlet & Outlet Structure Lids

This includes the removal of existing Siphon Inlet and Outlet Structure Lids (4466-in & 4466-OUT), and replacement with a new precast lid. This new lid will have two (2) openings fabricated into the lid to provide manway access (24-inch) and equipment access (30-inch).

Item 3.11 – Install New MH Frames & Covers

This work includes the removal and replacement of existing manhole frames and covers with new material. Standard 24-inch and 30-inch frame and covers will be used, as provided by Neenah Foundry per the RWRD Standard Details. Also includes new inflow inserts at each manhole to mitigate infiltration.

Item 3.12 – Manhole Concrete Collars

Includes the replacement of existing damaged concrete collars at each manhole using the standard shop collar 211 or 212 collar for non-paved areas.

Item 3.13 – Manhole Adjustments

Includes an Owner Contingency for the adjustment of existing manhole frame and covers to match the existing grade. RWRD to determine areas required for adjustment.

Item 3.14 – Manhole Reconstruction

Includes an Owner Contingency for the reconstruction of an existing manhole cone or grade ring section that is not properly on grade. B&F and RWRD inspectors to determine which manholes to receive reconstruction work in the field.

#### **ITEM 4.0 REMOVALS, REPLACEMENT, CLEARING & GRUBBING**

##### **Item 4.1 – Grouted Rip Rap Drainage Way Access Widening – Phase 5**

This scope item includes the modification and widening of an existing drainage way that also serves as an access point in the RFCD ROW area on Phase 5. This area needs to be widened to support the additional footprint of the FMP discharge piping, access for equipment, along with the Loop Bike Path Detour Route. B&F to match existing construction methods used, due to no details or drawings. The widening will be approximately 10 feet.

##### **Item 4.2 – Swan & Rillito NWC River Park Pavement Restoration**

Includes the complete removal of existing Asphaltic Concrete at the parking lot of the Swan and Rillito NWC River Park after construction activities are completed in Phase 5. The existing paving in the parking lot is in a deteriorated condition, and with additional usage from equipment and trucks during construction, RWRD has elected to improve the condition of the pavement for NRPR. Scope includes replacement of existing with 2-inches to 4-inches of AC, and striping.

##### **Item 4.3 – Hydroseeding in Disturbed Areas near Rillito River**

This scope item includes the application of a suitable hydro-seed sprayable mix consistent with the NRI Relief Sewer Project that meets RFCD and NRPR standards. Hydro-seed is to be applied in high use areas disturbed by construction traffic near the banks of the Rillito River. This will be used on RFCD, NRPR and private properties where construction traffic has disturbed the native soil.

##### **Item 4.4 – Clearing & Grubbing**

This item includes Clearing and Grubbing of potential disturbed areas on the north bank of the Rillito River in RFCD and NRPR Right-of-Way. This activity is required to maintain existing access to the RWRD Sewer Easement, or provide additional access for staging of materials and construction activities. B&F to install orange safety fencing to delineate areas to be undisturbed by the clearing and grubbing. Mitigation of the existing vegetation to be per the MOU Agreement with RWRD and RFCD. Costs are not included in this bid item for vegetation replacements. This has been included as an Owner Contingency Item on the GMP-2 due to assumptions made in Phase 3 for the path of the Flow Management discharge pipe.

##### **Item 4.5 – Site Restoration & Cleanup**

Includes costs for construction activities to bring the disturbed project areas back to their original condition, as well as re-grading. This has time for labor and equipment to come in and re-work disturbed areas within RFCD Right-of-Way, and private properties on the north bank of the Rillito River. Material replacements include decomposed granite and the replacement of 5-gallon and 10-gallon plants and/or shrubs. Replacement of trees and additional vegetation as necessary from the mitigation plan under the MOU is not included with this line item.

##### **Item 4.6 – Phase 5 Detour Path for NRI Relief Sewer**

Includes costs to clear, cut and grade a new detour path for the NRI Relief sewer on the north bank of the Rillito. B&F to bring path to rough grade only. Others to compact, and install stabilized surface per RFCD and/or RWRD requirements.

## **ITEM 5.0 ENVIRONMENTAL PERMIT COORDINATION**

### **Item 5.1 – Nationwide Permit Coordination for US Waters**

This work consists of the permit coordination required for the Nationwide 12 Permit for US Waters with the Army Corps of Engineers. This includes a Jurisdictional Delineation review for 404 washes, to discover construction impacts areas within Phases 1 through 6. Those impacts are then accounted for in the disturbance calculation for the permit. Brown and Caldwell will provide a Summary Report detailing why the NRI Project can be defined under the Nationwide 12 Permit classification.

### **Item 5.2 – Biological Evaluation Report**

This work consists of the development and generation of a Biological Evaluation report required as part of the Nationwide 12 Permit. Harris Environmental will review the Jurisdictional Delineation Plans to determine the Biological Habitat areas of impact for federally-listed threatened or endangered species, or critical habitat and essential fish habitats within the NRI Project Area.

## **ITEM 6.0 QUANTITY VARIATION FOR CIPP LINING & MH COATINGS**

### **Item 6.1 – Quantity Variation for CIPP Lining & MH Rehab**

This line item is an Owner Contingency to provide costs to cover discrepancies between the estimated and final footages for CIPP Lining and MH Rehab. The discrepancies originated from the different totals found when reviewing the as-builts, compared to the GIS System. A 3% quantity variation has been included to account for these discrepancies.

## **ITEM 7.0 VARGAS PROPERTY ELECTRICAL RE-LOCATION WORK**

### **Item 7.1 – Private Utility Locating**

Includes costs to hire Sunterra Utility locating to perform a field visit and identify/locate existing utilities on the Vargas property prior to the excavation work on the NRI Relief Northern Diversion Structure.

### **Item 7.2 – Re-Locate Electrical Line & Panel Out of NRI Relief Sewer Alignment**

Includes costs to relocate existing electrical line and panel board outside of the proposed NRI Relief Sewer easement. This electrical line is used to power Mr. Vargas's front gate. B&F to re-locate the existing panel, and re-align the electrical line to the east of the property. Scope also includes pulling in new wire from the gate controller to the meter, and back to the house, terminating at the house electrical panel.

### **Item 7.3 – Repair Existing J-Box & Electrical Line and Panel on Vargas Property**

Includes costs for the repair of existing j-boxes, conduit and wire on the Vargas property line.

## **ITEM 8.0 OWNER CONTINGENCY FOR ENVIRONMENTAL RESTORATION IN RFCD ROW, THE LOOP, NRPR & PRIVATE PROPERTIES**

Item 8.1– NPPO for Riparian Habitats along the Rillito River in RFCD and Landscaping Replacement

This work consists of replacement of damaged, disturbed and/or removed vegetation within each of the six (6) phases of the NRI Project. This includes restoration of plant materials in RFCD, NRPR, and private property for disturbances from construction activities for Flow Management, CIPP Lining, MH Rehab and Access Related work. This is also for the mitigation requirements set forth in the MOU between RWRD and RFCD for plant replacement. This is an Owner Contingency item, where funds will be spent only after RWRD approval.

Item 8.2 – Guardrail, Fencing & Gate Replacements

This scope item consists of the removal and replacement of guardrail, fencing and gates encountered throughout the NRI Project. There is fencing obstructing the easement and existing access that may need to be removed due to construction activities. This line item will service as an Owner Contingency for the removal and replacement of these features, as approved by RWRD.

Item 8.3 – Loop Bike Path Asphalt Restoration

Includes costs for asphalt restoration on the Loop Bike Path due to equipment or construction impacts that could potentially damage the existing surface. Disturbances from the installation and removal of the FMP System could potentially damage the existing Loop Bike Path surface treatment. This is an Owner Contingency line item to allow for the replacement of damaged areas as warranted.

# EXHIBIT A.3 GUARANTEED MAXIMUM PRICE (GMP-2) B&F CONTRACTING, INC.

PROJECT: Construction Manager at Risk (CMAR) Services for North Rillito  
 Interceptor Rehabilitation Project No. 3NR114  
 Pima County Regional Wastewater Reclamation Department  
 Date: 3/11/2015  
 Revision: GMP-2

Tucson Office: 1904 W. Prince Rd., Tucson, AZ 85705  
 Corporate HQ: 11011 N. 23rd Ave., Phoenix, AZ 85029  
 Office: 623-582-1170 | Fax: 623-582-3761  
 Arizona Licenses: ROC-089744 A General Engineering  
 ROC-111282 B-04 General Engineering



ITEM	Description	Sub/Self Perform	QTY	UNIT	Unit Price	Total Price
<b>0.0</b>	<b>GENERAL REQUIREMENTS</b>					
0.1	Traffic Control for Phase 3, 4 & 6	Border Traffic	1	LS	\$ 195,500.00	\$ 195,500.00
0.2	Permit Fees (Owner Contingency)	CoT	1	Allow	\$ 6,000.00	\$ 6,000.00
0.3	Construction Water	CoT	900	MGAL	\$ 7.00	\$ 6,300.00
0.4	PDEQ Dust Control Permit	B&F	4	EA	\$ 625.00	\$ 2,500.00
0.5	Dust Control	B&F	1	LS	\$ 40,345.60	\$ 40,345.60
0.6	SWPPP BMP's for Phase 3, 4 & 6	B&F	1	LS	\$ 88,139.50	\$ 88,139.50
0.7	Materials Testing & Quality Control for Phase 3, 4 & 6	TBD	1	LS	\$ 25,575.00	\$ 25,575.00
0.8	Street Sweeping Services	TBD	1	LS	\$ 2,040.00	\$ 2,040.00
0.9	Project Signage - 5 Signs per Phase	Fast Signs	30	EA	\$ 325.00	\$ 9,750.00
<b>GENERAL REQUIREMENTS SUBTOTAL</b>						<b>\$ 376,150.10</b>
<b>1.0</b>	<b>FLOW MANAGEMENT PLAN (Phase 4)</b>					
1.1	Phase 4 FMP Setup, Operation & Removal (Phase 4)	B&F	1	LS	\$ 513,701.73	\$ 513,701.73
1.2	Trenching and Asphalt Work for Discharge Pipe (Phase 4)	B&F	1	LS	\$ 35,268.11	\$ 35,268.11
1.3	Vactor Truck Pumping (Phase 4)	Pro-Pipe	80	HR	\$ 195.00	\$ 15,600.00
1.4	New Suction MH Access Installation	B&F	2	EA	\$ 18,125.40	\$ 36,250.80
<b>FLOW MANAGEMENT PLAN (Phase 4) SUBTOTAL</b>						<b>\$ 600,820.64</b>
<b>2.0</b>	<b>CIPP LINING, CLEANING/CCTV &amp; ODOR CONTROL</b>					
<b>CIPP Lining Rehabilitation</b>						
2.1	Phase 1 - CIPP Lining	Insituform	1	EA	\$ 368,401.70	\$ 368,401.70
2.2	Phase 2 - CIPP Lining	Insituform	1	EA	\$ 542,800.40	\$ 542,800.40
2.3	Phase 3 - CIPP Lining	Insituform	1	EA	\$ 910,392.80	\$ 910,392.80
2.4	Phase 4 - CIPP Lining	Insituform	1	EA	\$ 523,243.50	\$ 523,243.50
2.5	Phase 5 - CIPP Lining	Insituform	1	EA	\$ 610,951.30	\$ 610,951.30
2.6	Phase 6 - CIPP Lining	Insituform	1	EA	\$ 1,730,427.60	\$ 1,730,427.60
2.7	CIPP Lining Repair	Insituform	15	EA	\$ 881.30	\$ 13,219.50
2.8	HCS Reinstatement	Insituform	12	EA	\$ 150.00	\$ 1,800.00
2.9	CIPP Inversion Access - Removal/Replace of Existing Cone &	B&F	20	EA	\$ 6,374.72	\$ 127,494.40
<b>Cleaning &amp; CCTV</b>						
2.10	Project Clean/CCTV	Pro Pipe	1	LS	\$ 549,428.00	\$ 549,428.00
2.11	Post Video Jetter Sweep	Pro-Pipe	100	HR	\$ 195.00	\$ 19,500.00
<b>Odor Control for FMP &amp; CIPP Lining</b>						
2.12	Installation, Removal & Carbon Recharge	B&F	1	LS	\$ 13,185.28	\$ 13,185.28
2.13	Monthly Rental/Operation of Carbon Odor Control Scrubbers	B&F	6	Months	\$ 18,626.00	\$ 111,756.00
<b>CIPP LINING, CLEANING/CCTV &amp; ODOR CONTROL SUBTOTAL</b>						<b>\$ 5,522,600.48</b>
<b>3.0</b>	<b>MANHOLE COATINGS, REHABILITATION, REPAIRS, FRAME/COVERS &amp; CONCRETE COLLARS</b>					
<b>MH Coatings &amp; Rehabilitation</b>						
3.1	Phase 1 - Coatings & Rehabilitation	JPCI	1	EA	\$ 180,477.00	\$ 180,477.00
3.2	Phase 2 - Coatings & Rehabilitation	JPCI	1	EA	\$ 176,358.00	\$ 176,358.00
3.3	Phase 3 - Coatings & Rehabilitation	JPCI	1	EA	\$ 353,136.00	\$ 353,136.00
3.4	Phase 4 - Coatings & Rehabilitation	JPCI	1	EA	\$ 118,145.00	\$ 118,145.00
3.5	Phase 5 - Coatings & Rehabilitation	JPCI	1	EA	\$ 183,315.00	\$ 183,315.00
3.6	Phase 6 - Coatings & Rehabilitation	JPCI	1	EA	\$ 575,298.00	\$ 575,298.00
3.7	3 Year Warranty/Maintenance Bond	JPCI	1	LS	\$ 52,362.06	\$ 52,362.06
3.8	Re-Work for Cosmetic Smooth Finish - 1 hr per MH	JPCI	126	HR	\$ 160.00	\$ 20,160.00
<b>Structure Coatings &amp; Rehabilitation</b>						
3.9	Sabino Creek Siphon Inlet & Outlet Structure - Rehab & Coat	JPCI	1	LS	\$ 40,810.00	\$ 40,810.00
3.10	New Siphon Inlet & Outlet Structure Lids	B&F	1	LS	\$ 24,851.16	\$ 24,851.16
<b>MH Frame, Covers, Adjustments &amp; Concrete Collars</b>						
3.11	Install New MH Frame & Covers	B&F	126	EA	\$ 707.52	\$ 89,147.40
3.12	Manhole Concrete Collars	B&F	126	EA	\$ 541.54	\$ 68,233.48
3.13	Manhole Adjustments	B&F	25	EA	\$ 1,154.00	\$ 28,850.00
3.14	Manhole Reconstruction	B&F	15	EA	\$ 4,101.24	\$ 61,518.60
<b>MANHOLE COATINGS, REHABILITATION, REPAIRS, FRAME/COVERS &amp; CONCRETE COLLARS SUBTOTAL</b>						<b>\$ 1,972,661.70</b>

4.0	<b>REMOVALS, REPLACEMENT, CLEARING &amp; GRUBBING</b>					
4.1	Grouted Rip Rap Drainage Way Access Widening - Phase 5	J4 Civil (SBE)	1	LS	\$ 15,629.00	\$ 15,629.00
4.2	Swan & Rillito NWC River Park Pavement Restoration	Bates Paving (SBE)	1	LS	\$ 33,644.69	\$ 33,644.69
4.3	Hydroseed Disturbed Areas near Rillito River	B&F	15	Acres	\$ 2,600.00	\$ 39,000.00
4.4	Clearing & Grubbing - All Phases	B&F	1	LS	\$ 54,287.04	\$ 54,287.04
4.5	Site Restoration & Cleanup	B&F	1	LS	\$ 43,936.60	\$ 43,936.60
4.6	Phase 5 Detour Path for NRI Relief Sewer	B&F	1	LS	\$ 7,605.44	\$ 7,605.44
<b>REMOVALS, REPLACEMENT, CLEARING &amp; GRUBBING SUBTOTAL</b>						<b>\$ 194,102.77</b>
5.0	<b>404/ENVIRONMENTAL PERMIT COORDINATION</b>					
5.1	Nationwide Permit Coordination for US Waters	Brown & Caldwell	1	LS	\$ 12,000.00	\$ 12,000.00
5.2	Biological Evaluation Report	Harris Environmental	1	LS	\$ 5,000.00	\$ 5,000.00
<b>404/ENVIRONMENTAL PERMIT COORDINATION SUBTOTAL</b>						<b>\$ 17,000.00</b>
6.0	<b>QUANTITY VARIATION FOR CIPP LINING &amp; MH REPAIRS/REHAB</b>					
6.1	Quantity Variation for CIPP Lining (3% of Subtotal 2 & 3)	ITI & JPCI	1	LS	\$ 224,858.00	\$ 224,858.00
<b>QUANTITY VARIATION FOR CIPP LINING &amp; MH REPAIRS/REHAB SUBTOTAL</b>						<b>\$ 224,858.00</b>
7.0	<b>VARGAS PROPERTY ELECTRICAL RE-LOCATION WORK</b>					
7.1	Private Utility Locating	Sunterra Utility Locating	1	LS	\$ 350.00	\$ 350.00
7.2	Re-Locate Electrical Line & Panel Out of NRI Relief Sewer Alignment	B&F / Ridgepoint	1	LS	\$ 14,200.00	\$ 14,200.00
7.3	Repair Existing J-Box & Electrical Line and Panel on Vargas Property	B&F / Ridgepoint	1	EA	\$ 1,471.07	\$ 1,471.07
<b>VARGAS PROPERTY ELECTRICAL RE-LOCATION WORK SUBTOTAL</b>						<b>\$ 16,021.07</b>
8.0	<b>OWNER CONTINGENCY FOR ENVIRONMENTAL RESTORATION IN RFCD ROW, THE LOOP, NRPR &amp; PRIVATE PROPERTIES</b>					
8.1	NPPO for Riparian Habitats Along the Rillito in RFCD and Landscaping Replacement	Owner Contingency	1	LS	\$ 100,000.00	\$ 100,000.00
8.2	Guardrail, Fencing & Gates	Owner Contingency	1	LS	\$ 20,000.00	\$ 20,000.00
8.3	Loop Bike Path Asphalt Restoration	Owner Contingency	200	SY	\$ 172.00	\$ 34,400.00
<b>OWNER CONTINGENCY FOR ENVIRONMENTAL RESTORATION IN RFCD ROW, THE LOOP, NRPR &amp; PRIVATE PROPERTIES SUBTOTAL</b>						<b>\$ 154,400.00</b>
<b>SUBTOTAL - DIRECT COST WORK ITEMS</b>						<b>\$ 9,078,614.76</b>

(% = B / L)	6.20%	GENERAL CONDITIONS	\$ 728,691.04	B
		GMP SUBTOTAL	\$ 9,807,305.80	C = (A + B)
	11.00%	CONSTRUCTION FEE	\$ 1,078,803.64	D = (11% * C)
		GMP + FEE SUBTOTAL	\$ 10,886,109.44	E = (C + D)
	1.00%	PAYMENT/PERFORMANCE	\$ 117,567.66	F = (1% * L)
		GMP + FEE + BOND SUBTOTAL	\$ 11,003,677.10	G = (E + F)
	1.50%	GENERAL LIABILITY INS.	\$ 165,055.16	H = (1.5% * G)
		GMP + FEE + BOND + INSURANCE SUBTOTAL	\$ 11,168,732.25	I = (G + H)
	5.265%	TAX	\$ 588,033.75	J = (5.265% * I)
		GMP + FEE + BOND + INSURANCE + TAX SUBTOTAL	\$ 11,756,766.00	K = (I + J)
		TOTAL GMP-2	\$ 11,756,766.00	L = (J + K)



**EXHIBIT A.4**  
**LIST OF PLANS & SPECIFICATIONS**

**Construction Manager at Risk for Pima County Regional Wastewater Reclamation Department -  
North Rillito Interceptor Rehabilitation Project**

<b>Project No.</b>	3NRI14	<b>Date:</b>	3/10/2015
<b>Project Title</b>	North Rillito Interceptor Rehab Project	<b>GMP:</b>	2
<b>Project Location</b>	Woodland Rd. to Campbell Rd.	<b>B&amp;F Job #:</b>	3150

**NOTE: The GMP is based on the following Project Documents:**

North Rillito Interceptor Rehabilitation - Drawings Supplied during RFQ Stage, sheets 1 through 12 dated, 2/5/2013 (no seal)

North Rillito Interceptor Rehabilitation Layout Sheets, sheets 1 through 5, dated 4/3/2014 (not sealed)

Flow Management Plan - Phase 4 developed by B&F Contracting and Brown & Caldwell

Technical Specifications for Manhole Rehabilitation and Corrosion Protective Coating - Prepared for the North Rillito Interceptor (NRI) Rehabilitation Project. Dated 9/30/2014

Special Provisions & Specifications for CIPP Lining, dated 10.02.2014

Subcontractor Bid form for CIPP Lining & MH Rehabilitation



## **EXHIBIT A.5**

# **CLARIFICATIONS & ASSUMPTIONS**

### **Construction Manager at Risk for Pima County Regional Wastewater Reclamation Department - North Rillito Interceptor Rehabilitation Project**

#### **LIST OF CLARIFICATIONS & ASSUMPTIONS:**

1. Construction GMP-2 includes costs for Flow Management at Phase 4 only. FMP costs for phases 3 and 6 on this project to be incorporated on GMP-3. GMP-1 included costs for FMP on phases 1, 2 and 5.
2. This GMP includes costs associated with the CIPP Lining, Cleaning/CCTV, Manhole Rehabilitation, Manhole Adjustments, Manhole Reconstruction, Sabino Creek Siphon Inlet & Outlet Rehabilitation, Odor Control Mitigation, 404 Environmental Coordination, Removals, Replacements, Clearing and Grubbing, and an Owner Contingency for NPPO Restoration.
3. It is understood that RWRD will enter into an MOA (Memorandum of Agreement) with Regional Flood Control District and Natural Resources Parks and Recreation for access rights to and from their properties on this project. These properties and access ways will be used for flow management, staging, and access in and out for contractors.
4. At this time the environmental restoration requirements within RFCD Right-of-Way areas along the Rillito, Tanque Verde Wash and Sabino Creek are not clearly defined. To cover these unknown costs, B&F has carried an owner contingency of \$100,000.00 in Line Item 8.1. It is expected that RWRD, RFCD & NRPR will negotiate the native plant material restoration requirements for Riparian Habitat areas along the Rillito River as the project progresses. If the restoration requirements developed by RFCD exceed the estimated owner contingency amount, B&F will request to be reimbursed the additional costs.
5. Odor Control Mitigation includes 24/7 operation of Calgon Carbon Odor Scrubbers upstream and downstream of the suction and discharge manholes. B&F will install these in combination with the Flow Management System to minimize odors.
6. Sabino Creek Siphon Inlet and Outlet Rehabilitation includes costs to clean/prep, underlayment, and final surface coating, including the replacement of both lids. It also includes the replacement of the redwood diversion logs. This bid item does not include any channel reconfiguration, bench, walls, or embed work.
7. Any "In Lieu of Fees (ILF)" required for Native Plant Restoration by RFCD, CoT, PCDOT or NRPR are not included in this GMP. It is understood that RWRD will cover these costs directly if they are required.
8. It is understood that RWRD and B&F will be granted access rights to the Bike Path from the appropriate governing agency for staging our FMP discharge piping along with any other access required by B&F Contracting or our subcontractors for the completion of our NRI project work scope.
9. Normal weather conditions are expected on this project, as such, B&F expects average rainfall to equal 1 day per month. Weather related days can be claimed during rainfall events or after rainfall events on days no rain has occurred. Phase 3, 4 and 6 have a (12) month schedule, so we anticipate twelve (12) rain days for GMP-2.
10. Includes costs for Vargas Property electrical line and panel re-location for their existing gate. This was required to be moved due to the alignment of the NRI Relief Sewer and Northern Diversion Structure.

11. It is assumed Right-of-Way Fees and/or Excavation type permits and permit review costs for areas within Pima County Department of Transportation (PCDOT) are to be accounted and paid for internally within Pima County. This is based on discussions and meetings held between RWRD, B&F and PCDOT. The two agreed to share internal cost codes so they could apply review time and permit fees as such.
12. Clarifications and Assumptions included on this Exhibit or others take precedence over all Special Provisions or Contract Requirements on this project.
13. GMP excludes all costs and/or fees associated with regular and overtime onsite inspection. Special Inspections such as post videos, etc. to be provided by RWRD.
14. Normal works hours are assumed to be from 6:00 am to 6:00 pm, but after hours and 24 hour operation may be required to facilitate the construction of this project due to its unique nature.
15. Pavement patching or restoration is bid to match the existing conditions for any pavement areas disturbed by the Flow Management Plan. B&F does not include any costs associated with areas where existing IGA's or pavement moratoriums may exist that would increase the cost and scope of asphalt replacement. Replacement to be per CoT and PCDOT Standard Details and Specifications.
16. Hydrostatic pressure testing of FMP main-line discharge lines to be tested at 1.5 times the operating pressure of the system or at 30, 40 or 50 PSI, whichever is closest to the operating range.
17. Hydrostatic pressure testing to be performed on the temporary force main from the manifold and check valve from the pump station to the discharge end and blind flange connection. Suction and discharge hoses connected to pumps are exempt from these higher pressure tests.
18. HDPE pipe used temporarily for the FMP discharge lines are not expected to be free and clear of dings, scuffs or scrapes. QA/QC testing and acceptance of temporary FMP pipe shall be tested hydrostatically on FMP discharge lines in lieu of the 10% wall thickness rule.
19. HDPE discharge lines to be disinfected and cleaned prior to removal using 12.5% Hypochlorite solution.
20. Traffic Control costs include setup, rental, teardown and traffic flaggers in areas required by CoT and PCDOT. It is expected that all traffic control devices will be able to be left overnight. Additional costs not included in this GMP will be incurred if they are required to be removed overnight.
21. Excludes any costs for the removal of hazardous materials.
22. Excludes costs for chip sealing of any kind.
23. This GMP assumes no costs for police officers for traffic control.
24. GMP-2 includes costs for currently identified engineering, design, environmental, survey and community relation efforts determined in the design phase. Additional efforts encountered or added due to increased scope of work elements or unforeseen conditions to be encountered in later, subsequent GMP's. It is anticipated that additional design efforts may be required for additional sewer reconfiguration and manhole work if required to improve the hydraulics of the NRI.
25. Excludes any costs for ADEQ Construction Authorization or Discharge Authorization or AZPDES requirements in this GMP. It is anticipated that any costs for this will be reimbursed on the subsequent GMP where sewer reconfiguration work is identified.
26. Excludes any costs associated with Hard Dig conditions, rock excavation, blasting or hydraulic breakers of any kind.
27. GMP-2 includes a construction schedule of 600 calendar days, starting from the Notice-to-Proceed
28. GMP-2 Excludes all costs associated with RFCD and NRPR Right-of-Way access permits and/or fees.
29. Phase 4 Flow Management assumes the acceptable placement of HDPE, pumps and fittings located on the RWRD easement and Cesare Property. This assumes an agreement can be made privately between B&F and Joe Cesare. If an agreement cannot be made due to extenuating circumstances with litigation from the County, B&F will have to identify a phase to transition. Lost time caused by this is not included in this GMP.
30. Includes Hydroseeding restoration within construction and staging areas used on the NRI Rehab Project.

31. This GMP includes an owner contingency of \$34,400.00 in Line Item 8.3 for any asphalt repairs needed on The Loop Bike Path from construction activities.
32. The costs associated with Storm Water Pollution Prevention Planning (SWPPP) BMP's, and the installation, maintenance and removal of the SWPPP are included in GMP-2.
33. Flow Management Plan trenching and asphalt restoration costs are included for phase 4 only.
34. GMP includes traffic control costs for phases 3, 4 and 6 only
35. GMP includes costs for permit fees, construction water, PDEQ, dust control, materials testing, quality control, and street sweeping services associated with phases 3, 5 and 6 only.
36. General Condition costs were estimated at 14 months for GMP-2. B&F anticipates a total project schedule of 18 to 24 months, so GMP-3 may include 2-4 additional months depending on the size and scope.
37. Proposal does not include costs for any proposed sewer re-alignment work and/or new manhole structures. This is to be negotiated and included on GMP-3.
38. Proposal does not include Flow Management costs for Phases 3 and 6 due to ongoing negotiations at the Cesare Property. Phase 6 design has not been configured at this time.
39. This GMP includes an owner contingency of \$224,858.00 (Approximately 3%) for CIPP, Cleaning, Video & Manhole quantity variations for difference in length and vertical depth based on the as-builts and GIS System vs. field verified measurements. Any additional quantities to be compensated using Line Item 6.1.
40. Manhole adjustments, reconstructions, collars, and new frame and covers to be identified for replacement in the field by RWRD Inspectors and B&F management personnel. An owner contingency has been carried for adjustments in Line Item 3.13 and manhole reconstructions in Line Item 3.14.

NRI REHAB PROJECT NO. 3NRI14																	
ID	Task Mode	Task Name	Duration	Start	Finish	Gantt Chart											
1		NRI Rehab Project - Phase 5 Construction	109 days	Mon 12/1/14	Wed 5/6/15	Gantt Chart											
53		Phase 4 Construction	72 days	Mon 4/13/15	Tue 7/21/15	Gantt Chart											
54		Mobilize Equipment & Materials	5 days	Mon 4/13/15	Fri 4/17/15	Gantt Chart											
55		FMP System Installation	25 days	Mon 4/20/15	Fri 5/22/15	Gantt Chart											
56		CIPP Lining, Clean, CCTV, MH Rehab	30 days	Mon 5/25/15	Fri 7/3/15	Gantt Chart											
57		Teardown FMP System	12 days	Mon 7/6/15	Tue 7/21/15	Gantt Chart											
58		Phase 1 Construction	71 days	Wed 7/22/15	Wed 10/28/15	Gantt Chart											
59		Mobilize Equipment & Materials	3 days	Wed 7/22/15	Fri 7/24/15	Gantt Chart											
60		FMP System Installation	25 days	Mon 7/27/15	Fri 8/28/15	Gantt Chart											
61		Install New MH Structures	15 days	Mon 8/31/15	Fri 9/18/15	Gantt Chart											
62		CIPP Lining, Clean, CCTV, MH Rehab	35 days	Mon 8/24/15	Fri 10/9/15	Gantt Chart											
63		Teardown FMP System	18 days	Mon 10/5/15	Wed 10/28/15	Gantt Chart											
64		Rehab Sabino Creek Siphon Inlet & Outlet Structure	10 days	Mon 10/5/15	Fri 10/16/15	Gantt Chart											
65		Pavement, Sidewalk and Landscape Restoration	8 days	Mon 10/19/15	Wed 10/28/15	Gantt Chart											
66		Phase 2 Construction	96 days	Thu 10/29/15	Thu 3/10/16	Gantt Chart											
67		Mobilize Equipment & Materials	3 days	Thu 10/29/15	Mon 11/2/15	Gantt Chart											
68		FMP System Installation	35 days	Tue 11/3/15	Mon 12/21/15	Gantt Chart											
69		Install New MH Structures	15 days	Tue 12/22/15	Mon 1/11/16	Gantt Chart											
70		CIPP Lining, Clean, CCTV, MH Rehab	35 days	Tue 12/15/15	Mon 2/1/16	Gantt Chart											
71		Teardown FMP System	25 days	Tue 1/26/16	Mon 2/29/16	Gantt Chart											
72		Pavement, Sidewalk and Landscape Restoration	8 days	Tue 3/1/16	Thu 3/10/16	Gantt Chart											
73		Phase 6 Construction	113 days	Fri 3/11/16	Tue 8/16/16	Gantt Chart											
74		Mobilize Equipment & Materials	3 days	Fri 3/11/16	Tue 3/15/16	Gantt Chart											
75		FMP System Installation	25 days	Wed 3/16/16	Tue 4/19/16	Gantt Chart											
76		Install New MH Structures	15 days	Wed 4/20/16	Tue 5/10/16	Gantt Chart											
77		CIPP Lining, Clean, CCTV, MH Rehab	65 days	Wed 5/4/16	Tue 8/2/16	Gantt Chart											
78		Teardown FMP System	20 days	Wed 7/6/16	Tue 8/2/16	Gantt Chart											
79		Pavement, Sidewalk and Landscape Restoration	10 days	Wed 8/3/16	Tue 8/16/16	Gantt Chart											
80		Phase 3 Construction	101 days	Wed 8/24/16	Wed 1/11/17	Gantt Chart											
81		Mobilize Equipment & Materials	3 days	Wed 8/24/16	Fri 8/26/16	Gantt Chart											
82		FMP System Installation	25 days	Mon 8/29/16	Fri 9/30/16	Gantt Chart											
83		Install New MH Structures	15 days	Mon 10/3/16	Fri 10/21/16	Gantt Chart											
84		CIPP Lining, Clean, CCTV, MH Rehab	48 days	Mon 10/17/16	Wed 12/21/16	Gantt Chart											
85		Teardown FMP System	20 days	Thu 12/8/16	Wed 1/4/17	Gantt Chart											
86		Pavement, Sidewalk and Landscape Restoration	5 days	Thu 1/5/17	Wed 1/11/17	Gantt Chart											

Project: NRI Rehab Project - Ph Date: Mon 4/6/15

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

Page 1

## EXHIBIT A.7

### SBE UTILIZATION

#### Construction Manager at Risk for Pima County Regional Wastewater Reclamation Department - North Rillito Interceptor Rehabilitation Project

The North Rillito Interceptor Rehabilitation is a very unique project with specialized scope of work elements not found locally in the Tucson market. There are no SBE options for three (3) major work components that involve CIPP Lining, Manhole Rehabilitation Coatings and Flow Management Services. Due to this characteristic, it is exceedingly difficult to meet high SBE Utilization goals set forth by the procurement department that are used for other traditional commercial and civil construction improvement projects.

PCRWRD and B&F met with Terri Spencer, the SBE Program Coordinator for the Pima County Procurement Department to discuss these challenges on this project. Our firm presented a SBE plan that determined we could meet a minimum value of 1.38% and a maximum of 2.4% participation rate on the overall project.

We intend to use the following SBE Certified Businesses for their related scopes of work:

<u>SUBCONTRACTORS</u>	<u>SCOPE</u>	<u>COST</u>
Border Traffic Safety	Traffic Control	\$195,000.00
Bates Paving	Paving & Asphalt	\$33,633.69
J4 Civil	Grouted Rip-Rap	\$15,629.00
Ridgepoint Electric	Electrical Work	\$11,924.95
ACS Services	Materials Testing	\$25,575.00
TOTAL ESTIMATED SBE UTILIZATION:		<u><b>\$281,762.64</b></u>

After receiving proposals from our SBE contractors, for an anticipated SBE participation value of \$281,762.64 this puts us at a participation rate of **2.39%** on a total of \$11,713,309.40 for GMP-2.

**EXHIBIT A.8****SUBCONTRACTOR/VENDOR/SUPPLIER SELECTION**

**Construction Manager at Risk for Pima County Regional Wastewater Reclamation Department -  
North Rillito Interceptor Rehabilitation Project**

<b>Project No.</b>	3NRI14	<b>Date:</b>	3/10/2015
<b>Project Title</b>	North Rillito Interceptor Rehab Project	<b>GMP:</b>	2
<b>Project Location</b>	Woodland Rd. to Campbell Rd.	<b>B&amp;F Job #:</b>	3150

<b>Description</b>	<b>Subcontractor, Vendor &amp; Suppliers</b>	<b>Amount</b>	<b>Reason For Selection</b>
Cured-In-Place Pipe (CIPP) Lining	Insituform Technologies	\$ 4,779,609.40	Lowest Price / Qualifications
	SAK Construction	\$ 5,421,614.00	
Manhole Coatings & Rehabilitations	JPCI Services	\$ 1,713,821.06	Lowest Price / Qualifications
	Jenco Construction	\$ 1,827,055.00	
	Southwest Environmental	\$ 2,624,085.00	
Swan & Rillito NWC Parking Lot Paving	Bates Paving	\$ 29,248.00	Lowest Price / Qualifications
	Tucson Asphalt	\$ 31,784.70	
	A&S Paving	\$ 26,946.58	(Incomplete Bid)
Cleaning & CCTV	Pro-Pipe Services	\$ 549,428.00	Qualifications / Price / Local
Precast Material	Jensen Precast	\$ 4,100.00	Qualifications / Price / Local
Electrical Re-Location Work	Ridgepoint Electric	\$11,924.95	SBE / Qualifications / Local
Traffic Control Services	Border Traffic Safety	\$ 195,000.00	SBE / Qualifications / Local