



## BOARD OF SUPERVISORS AGENDA ITEM REPORT CONTRACTS / AWARDS / GRANTS

Requested Board Meeting Date: June 7, 2016

or Procurement Director Award

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Contractor/Vendor Name (DBA): B & F Contracting, Inc.

**Project Title/Description:**

Construction Manager At Risk Services For The North Rillito Interceptor Rehabilitation Project No. 3NRI14.

**Purpose:**

Amendment of Award: Contract No. CT-WW-14-189, Amendment No. Four (4). This amendment extends the contract termination date to July 31, 2017, increases the award amount from \$17,558,700.29 to \$21,686,085.18 and incorporates Guaranteed Maximum Price No. 3 (GMP-3).

GMP-3 continues construction services: Cured-In-Place Pipe Lining (CIPP), CIPP inversion access, manhole rehabilitation/coating work, manhole adjustments, manhole reconstruction, manhole concrete collars, temporary suction manhole access and cleaning, and closed circuit television inspection for project phase six (6). The Contractor will achieve a Small Business Enterprise (SBE) goal of 1.61% for GMP-3.

Administering Department: Regional Wastewater Reclamation.

**Procurement Method:**

Pursuant to Solicitation For Qualifications No. 85650, the Board of Supervisors awarded a contract for this project on November 19, 2013 in the amount of \$189,292.90 for preconstruction services with a contract term of November 19, 2013 through July 31, 2016. Total cost for this project, including preconstruction services and construction services was not expected to exceed \$18,500,000.00 and construction was to be completed by July, 2016.

Amendment No. One (1), awarded by the Board of Supervisors on October 14, 2014, provided for expanded preconstruction services in the amount of \$485,960.88.

Amendment No. Two (2), awarded by the Board of Supervisors on November 18, 2014, added GMP-1 to the contract in the amount of \$5,801,934.29 and provided for the purchase of long lead time equipment and materials, preliminary construction activity, potholing of existing utilities and coordination of community relations prior to commencement of construction.

Amendment No. Three (3), awarded by the Board of Supervisors on April 14, 2015, added GMP-2 to the contract in the amount of \$11,756,766.00 and provided for the commencement of construction services: cured-in-place pipe lining (CIPP), CIPP inversion access, manhole rehabilitation/coating work, manhole adjustments, manhole reconstruction, manhole concrete collars, temporary suction manhole access and cleaning and closed circuit television (CCTV) activities.

Attachments: Amendment No. Four (4) and Memo to County Administrator.

**Program Goals/Predicted Outcomes:**

Complete rehabilitation of all identified requirements. Utilization of the same contractor for the entire interceptor provides consistent quality without additional monetary costs and time due to differing contract processes for different segments of the interceptor. Standardization of repairs/rehabilitation throughout the 10 miles of the interceptor.

**Public Benefit:**

10 miles of rehabilitated sewer line with an improved life of 50 years, including all manholes, while improving substandard hydraulic conditions that affect the system performance.

To: COB- 5.27.16 (1)  
cc: 7/1  
R. Adam

Procure Dept 05/27/16 PM0156

**Metrics Available to Measure Performance:**

Weekly progress meetings track project progress. Monthly or bi-weekly activity reports during construction. Monthly updates to the cost-to-complete forecast.

**Retroactive:**

No

**Original Information**

Document Type: \_\_\_\_\_ Department Code: \_\_\_\_\_ Contract Number (i.e., 15-123): \_\_\_\_\_

Effective Date: \_\_\_\_\_ Termination Date: \_\_\_\_\_ Prior Contract Number (Synergen/CMS): \_\_\_\_\_

Expense Amount: \$ \_\_\_\_\_  Revenue Amount: \$ \_\_\_\_\_

Funding Source(s): \_\_\_\_\_

Cost to Pima County General Fund: \_\_\_\_\_

Contract is fully or partially funded with Federal Funds?  Yes  No  Not Applicable to Grant Awards

Were insurance or indemnity clauses modified?  Yes  No  Not Applicable to Grant Awards

Vendor is using a Social Security Number?  Yes  No  Not Applicable to Grant Awards

If Yes, attach the required form per Administrative Procedure 22-73.

**Amendment Information**

Document Type: CT Department Code: WW Contract Number (i.e., 15-123): 14-189

Amendment No.: Four (4) AMS Version No.: 16

Effective Date: June 7, 2016 New Termination Date: July 31, 2017

Expense  Revenue  Increase  Decrease Amount This Amendment: \$ 4,127,384.89

Funding Source(s): RWRD Obligations

Cost to Pima County General Fund: \$0.00

Contact: Keith E. Rogers *Keith E. Rogers* *5/23/16*

Department: Procurement *May 2016* *5-28-16* Telephone: 724-3542

Department Director Signature/Date: *John Jonson* *5/26/16*

Deputy County Administrator Signature/Date: *John Jonson* *5/26/16*

County Administrator Signature/Date:  
(Required for Board Agenda/Addendum Items) *C. Dulcebury* *5/26/16*



**PIMA COUNTY**

WASTEWATER RECLAMATION  
201 NORTH STONE AVENUE  
TUCSON, ARIZONA 85701-1207

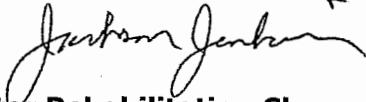
**JACKSON JENKINS**  
DIRECTOR

PH: (520) 724-6500  
FAX: (520) 724-9635

May 20, 2016

**TO:** C.H. Huckelberry, County Administrator

**THRU:** John M. Bernal, P.E., Deputy County Administrator – Public Works

**FROM:** Jackson Jenkins, Director – RWRD 

**SUBJECT:** **3NRI14, North Rillito Interceptor Rehabilitation Change Order Request, CT-  
WW-13\*193**

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This request is for a 1-year time extension and increase to the project construction contract by \$3.79M (Variance attached) for the North Rillito Interceptor Rehabilitation Project (NRI) and to execute the Guaranteed Maximum Price (GMP#3) of the project. The NRI Construction Manager at Risk (CMAR) contract expires on July 31, 2016. The project scope is for the rehabilitation of approximately 10 miles of sewer lines consisting of 15" diameter to 36" diameter sewers and the deteriorated manholes included within the alignment.

The original Rillito Corridor Program contained three CIP Construction and Rehabilitation projects planned for a total of \$39M. The projects included were the NRI Relief (3NRR02) totaling \$5.7M at its highs in FY2013/14, the South Rillito Interceptor (SRI) Rehabilitation (3SRWC4) at \$14.3M and the NRI Rehabilitation (3NRI14) at \$19M.

The SRI was awarded to the selected CMAR Contractor in July 2013 for \$13.8M. This project was completed ahead of schedule and \$2.63M under budget at \$11.67M. The NRI Relief budgeted at \$3.65M and completed for \$3.3M, delivered as a competitive design/bid/build. The NRI Rehabilitation, which is currently being delivered as a CMAR, is budgeted for \$22.57M. This brings the current total of the Rillito Corridor Program to \$37.5M or 3.8 % less than the original planned program total.

The original program concept was to construct the NRI siphon to relieve the NRI of excessive peak flows experienced during storm events by shifting those flows to the SRI. The first step was to perform a CCTV inspection for assessment of the SRI and NRI prior to the NRI Relief project going to bid. This assessment noted advanced deterioration of both systems since the last CCTV inspection completed 10 years earlier. The diverted flows from the NRI to the SRI via the Relief project would increase flows by up to an additional 10 MGD and would then increase velocities accordingly.

The assessment noted several sewer reaches nearing the National Association of Sewer Service Companies (NASSCO) category 5 (collapsed or collapse imminent) rating and several in category 4 (collapse likely in foreseeable future). The NASSCO rating triggered the acceleration of the rehabilitation project of the SRI from Columbus Blvd. west to Tucson Blvd. and Roger Road. The SRI system contained sewer diameters ranging from 48" to 54".

The assessment revealed very similar findings along the NRI system. Defects were noted from Woodland Road west to Campbell Blvd. The NRI system contains sewer diameters ranging from 15" to 36".

Based on this information, a reprioritization of the three individual CIP projects was undertaken by the RWRD CIP Team.

Prioritization Considerations:

- Discharge of the NRI Relief could create excessive stress on the downstream system (SRI).
- The NRI Relief contained two large structures for flow diversion from the NRI, and flow junction to the SRI. Under the original delivery concept, the construction of these structures required Flow Management Plans for both the NRI and SRI.
- The SRI and NRI projects were procured under the CMAR delivery, which provided improved flexibility to address the structure activities.
- River Park Pathways would be impacted multiple times by all three projects. By planning program work to occur concurrently, pathway impacts were safely minimized and maintained.
- Property owner notifications would be less cumbersome and manageable.

After the start of the NRI Rehabilitation and the system assessment performed, it was determined that the initial estimate of repairs would leave some of the system in need of additional work. It has been determined that the cost of deferring the repairs to a later date would exceed the current cost to repair the sewer under the existing contract.

Cost Increase Considerations:

- As a Value Engineering measure, the Diversion Structures from the NRI Relief scope were reallocated into the SRI and NRI to benefit from the cost savings of sharing the Flow Management Plans needed to implement the NRI and SRI rehabilitation efforts. As a result, the diversion structure cost of \$725,543 was not expensed from the NRI Relief but from the NRI Rehabilitation.
- The assessment of sharp turns (90 degree angles within small manholes) along the alignment confirmed areas of high erosion and H<sub>2</sub>S corrosion throughout our system as well as the high potential of creating hydraulic off gassing and odor problems. The correction of the most severe of the assessed 90 degree turns required realignment of the existing sewer lines. These efforts required not only construction, but design and further coordination efforts for ADEQ approval. The N. Lodge realignment costs are approximately \$560,000.
- The correction of the N. Lodge alignment required the acquisition of additional sewer easements and coordination with Real Property not only for access but for the proper recordation of missing sewer assessments. Some acquisitions had to go to condemnation for the completion of the realignment and some are still undergoing the acquisition process. The Real Property acquisition of the needed easements and Temporary Construction Easements (TCE) delayed the installation of this realignment for over 16 months. Impact costs are expected to exceed \$10,000.

- The condition assessment of existing manholes verified in the field during the projects initial phase indicated the manholes required more effort than planned. The project charter estimated 60 manholes for rehabilitation and 10 manholes for reconstruction. After assessment it was determined that approximately 100 manholes were found in need of rehabilitation, and 20 manholes in need of reconstruction/replacement. These additional requirements are at an approximate cost of \$855,405.
- While the project was under construction, RWRD's standards for manhole rehabilitation were changed by Field Engineering and additional effort was required to meet new standards. These changes were not budgeted for when the contract was awarded. The additional coating requirements increased the costs to approximately \$666,000.
- Actual condition of existing 15" diameter asbestos cement lines required the installation of a pre-liner to avoid excavating the entire line for complete replacement, adding to the project cost but avoiding the need to open excavate the location of failed liners. This Value Engineering measure required an additional \$50,000.
- Some areas required permanent improvements to re-establish proper access to our sewer lines. RWRD, in conjunction with NRP&R, improved portions of the linear park's trails and repaved the parking area of the River Park at Swan Road. Improvements to these County owned facilities came in at an approximate cost of \$60,000.
- Value Engineering was utilized for the avoidance of total reconstruction for eleven (11) manhole's through utilization of new technology for structural integrity enhancement and to minimize construction schedule impact. These manholes are located on private properties with minimal access, this option reduces the footprint requirement and minimizes impacts to Flow Management, which is approximately \$12,000 per day. These additional requirements are at a cost of \$294,030.

	<u>Project Budget</u>	<u>Completion Cost</u>	<u>Variance</u>
SRI	14,326,000	11,671,125	< 2.65 M
NRIR	3,654,251	3,320,899	< .333 M
NRI	18,780,000	22,569,543 *	≥ 3.79 M
Project Totals	36,760,251	37,561,567	> .8 M

\*Pending Approval:

(1) VE Diversion structure	725,543
(2) Lodge Rd. Sewer re-alignment	560,000
(3) Lodge Rd. TCE	10,000
(4) Additional MH rehabilitations	855,405
(5) Revised Standards	666,000
(6) 15" CIPP pre-liner	50,000
(7) Misc. County Improvements	60,000
(8) VE MH reconstruct	294,030

The NRI traverses some of the most difficult areas to maintain due to natural desert growth, private building encroachments, naturally developed riparian habitats, and the elimination of access due to highly developed areas. While the original project scope of work estimated unknown conditions, more complex requirements and the need for additional repairs were discovered once the sewers were field verified. As a result, additional efforts, materials and time are required to finish.

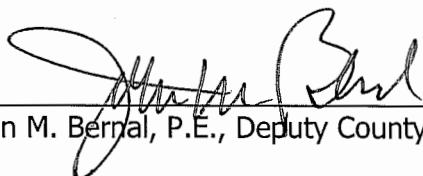
C.H. Huckelberry, County Administrator  
**SUBJECT: NRI Rehab Change Order Request**

May 20, 2016

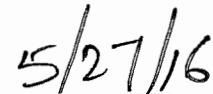
Page 4 of 4

Your approval of this request for the contract extension of one (1) year and \$3.79M additional funding to allow for the award of the final GMP#3 is requested. Should this request not be approved this project will need to be stopped, a new package and bid solicitation developed, with probable pricing escalation. There is the additional probability of leaving a critical infrastructure asset at risk of failure.

**CONCUR:**

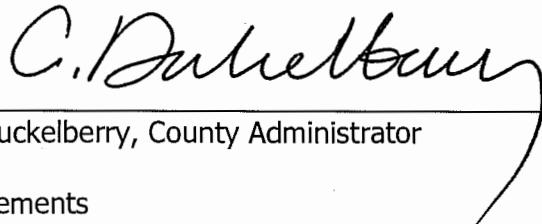


John M. Bernal, P.E., Deputy County Administrator

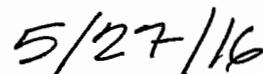


Date

**APPROVED:**



C.H. Huckelberry, County Administrator



Date

Attachments

c: John Warner, Deputy Director – Conveyance  
Keith Rogers, Commodity Contracts Officer  
Jaime Rivera, Program Manager – Conveyance  
Noel Ortiz, Civil Engineer Manager - Conveyance

## CIP Program - Intra Departmental Budget Adjustments FY 15/16

Use this form to request Budget Revisions to the Adopted Budget within a Dept CIP Program.

These adjustments are within the authority of the Department so long as the CIP Program Budget (adopted) remains the same.  
*Budget adjustments that increase the Department CIP Program Budget require Administration, and potentially BOS involvement.*

### Requesting Project

Date	Dept	Program ID:	Program Name:	Approval:
3/7/2016	WW	3NR114	North Rillito Interceptor Rehabilitation	John Warner, Deputy Director

**Justification:**

Capacity is needed for the FY 15/16 budget for: 3NR114 and will be taken from: Multiple Projects  
 The Total Project Budget for: 3NR114 will reflect a \$ 917,329.00 increase

Phase	Phase Description	Current FY/Annual Budget	Requested Current FY/Annual Budget	Change Requested	Total Program Budget
001	Right of Way	\$ 10,000	\$ 81,702	\$ 71,702	\$ 81,702
002	Planning	\$ -	\$ -	\$ -	\$ -
003	Design	\$ 33,000	\$ 122,486	\$ 89,486	\$ 2,180,325
004	Construction	\$ 4,079,671	\$ 4,835,812	\$ 756,141	\$ 20,307,105
005	Utility Relocation	\$ -	\$ -	\$ -	\$ 411
006	Public Art	\$ -	\$ -	\$ -	\$ -
007	Contingency	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>		<b>\$ 4,122,671</b>	<b>\$ 5,040,000</b>	<b>\$ 917,329</b>	<b>\$ 22,569,543</b>

Object / Approp.	Funding Source Description	Requested Current FY/Annual Budget	Total Program Budget
4720/500607	RWRD Obligations	\$ 5,040,000	\$ 22,569,543
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
<b>TOTAL</b>		<b>\$ 5,040,000</b>	<b>\$ 22,569,543</b>

*List all programs to be revised in the current FY, including this sheet and any other related changes.*

Current Year Variance Amount	Program ID	Program Name
\$ 917,329	3NR114	North Rillito Interceptor Rehabilitation
\$ (500,000)	3TFM13	Tangerine Rd Force Main Relocation
\$ (100,000)	3CCE15	Conveyance Campus Expansion - Dodge Blvd. Facility
\$ (300,000)	3ASC15	AeroSpace Corridor Augmentation
\$ (17,329)	322C14	22nd to Congress and Osborne to Toole
\$ -		
\$ -		
\$ -		
\$ -		
\$ -		
\$ -		
<b>Total Variance:</b> \$ -		<i>(Current Year Budget Variance should be \$0)</i>

*\*If this change requires a matching program reduction, or several changes tied to a single request in order to balance, please fill out the area below and supply a form for each program revision request.*

Yes  No

Requested Budget Revision is within Department CIP Budget

Yes  No

Request Budget Revision requires the following Programs be adjusted  
 in order to Balance

Revision Reviewed and Authorized by:

  
 John Warner, Deputy Director

3/7/2016

**CIP Program - Intra Departmental Budget Adjustments FY 15/16**

Use this form to request Budget Revisions to the Adopted Budget within a Dept CIP Program.

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*Budget adjustments that increase the Department CIP Program Budget require Administration, and potentially BOS involvement.*

**Source Project**

Date:	Dept:	Program ID:	Program Name:
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3/7/2016

WW

3TFM13

Tangerine Rd Force Main Relocation

**Justification:**

Capacity is needed for the FY 15/16 budget for: 3NR114 and will be taken from:  
 The Total Project Budget for: 3TFM13 will reflect a \$ (500,000) decrease

Phase	Phase Description	Current FY/Annual Budget	Requested Current FY/Annual Budget	Change Requested	Total Program Budget
001	Right of Way	\$ 11,000	\$ 11,000	\$ -	\$ 72,196
002	Planning	\$ -	\$ -	\$ -	\$ -
003	Design	\$ 5,881	\$ 5,881	\$ -	\$ 161,452
004	Construction	\$ 600,000	\$ 100,000	\$ (500,000)	\$ 691,944
005	Utility Relocation	\$ -	\$ -	\$ -	\$ -
006	Public Art	\$ -	\$ -	\$ -	\$ -
007	Contingency	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>		<b>\$ 616,881</b>	<b>\$ 116,881</b>	<b>\$ (500,000)</b>	<b>\$ 925,592</b>

Object//Approp.	Funding Source Description	Requested Current FY/Annual Budget	Total Program Budget
4720/500607	RWRD Obligations	\$ 116,881	\$ 925,592
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
<b>TOTAL</b>		<b>\$ 116,881</b>	<b>\$ 925,592</b>

*List all programs to be revised in the current FY, including this sheet and any other related changes.*

Current Year Variance Amount	Program ID	Program Name
\$ 917,329	3NR114	North Rillito Interceptor Rehabilitation
\$ (500,000)	3TFM13	Tangerine Rd Force Main Relocation
\$ (100,000)	3CCE15	Conveyance Campus Expansion - Dodge Blvd. Facility
\$ (300,000)	3ASC15	AeroSpace Corridor Augmentation
\$ (17,329)	322C14	22nd to Congress and Osborne to Toole
\$ -		
\$ -		
\$ -		
\$ -		
\$ -		
\$ -		
\$ -		
<b>Total Variance:</b> \$ -		<i>(Current Year Budget Variance should be \$0)</i>

*\*If this change requires a matching program reduction, or several changes tied to a single request in order to balance, please fill out the area below and supply a form for each program revision request.*

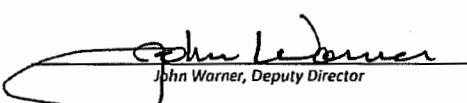
Yes  No

Requested Budget Revision is within Department CIP Budget

Yes  No

Request Budget Revision requires the following Programs be adjusted  
 in order to Balance

Revision Reviewed and Authorized by:

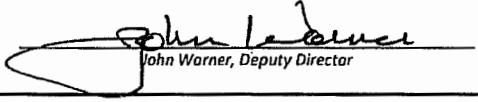
  
 John Warner, Deputy Director

3/7/2016

## CIP Program - Intra Departmental Budget Adjustments FY 15/16

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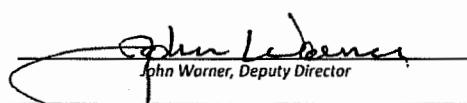
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## CIP Program - Intra Departmental Budget Adjustments FY 15/16

Use this form to request Budget Revisions to the Adopted Budget within a Dept CIP Program.

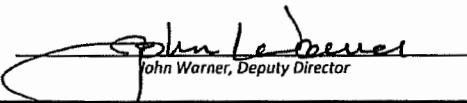
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Current Year Variance/Amount	Program ID	Program Name																																																																									
\$ 917,329	3NRI14	North Rillito Interceptor Rehabilitation																																																																									
\$ (500,000)	3TFM13	Tangerine Rd Force Main Relocation																																																																									
\$ (100,000)	3CCE15	Conveyance Campus Expansion - Dodge Blvd. Facility																																																																									
\$ (300,000)	3ASC15	AeroSpace Corridor Augmentation																																																																									
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Total Variance: \$ -			(Current Year Budget Variance should be \$0)																																																																								
<i>*If this change requires a matching program reduction, or several changes tied to a single request in order to balance, please fill out the area below and supply a form for each program revision request.</i>																																																																											
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Requested Budget Revision is within Department CIP Budget																																																																									
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Request Budget Revision requires the following Programs be adjusted in order to Balance																																																																									
Revision Reviewed and Authorized by:  John Warner, Deputy Director																																																																											
3/7/2016																																																																											



**CIP PROJECT CHANGE REQUEST  
AND VARIANCE FORM**  
Pima County Public Works

Project Name:		NORTH RILLITO INTERCEPTOR REHABILITATION			Project #:	3NRI14
Change #:	01	Date:	3/1/2016	Department	RWRD	
Project Manager:		Noel Ortiz		PM Signature:	<i>Noel Ortiz</i>	
<b>Description of Requested Change and Alternatives</b>						
<p>The NRI is ready to issue its last Guaranteed Maximum Price (GMP#3). This GMP will complete the rehabilitation of 10 miles of 36" to 42" sewer lines. As the project's final scope wrapped up, several deficiencies were identified that were not considered during the original scope development, but that are in the best interest of the County to be addressed within the ongoing project. The N Lodge realignment will replace a 90 degree bend with 2-45 degree sections, reducing turbulence/odors and erosion/corrosion of the sewer system. Structural rehabilitation of 46 additional large diameter manholes originally intended to receive a light protective coating is also needed and will require additional coating efforts due to changes in the RWRD coating specification to increase QA/QC testing requirements after the project was awarded.</p>						
<b>Project Impacts if Change is APPROVED</b> The additional items identified during the construction process will be funded and completed under this project.			<b>Project Impacts if Change is DENIED</b> The identified deficiencies will not be completed with this project and will require a future project to correct. The future project will not benefit from the contractor being mobilized and working on site and will likely increase the total cost overall.			
<b>Cause of Change Request</b>						
<input type="checkbox"/> Owner Requested Changes <input type="checkbox"/> RFI		<input checked="" type="checkbox"/> Unforeseen/Changed Conditions <input type="checkbox"/> Other			<input type="checkbox"/> Design Document Changes <input type="checkbox"/> SCOPE Change Only	
<b>Variance Required to Make Requested Change</b>						
Approved Budget		Proposed Budget		Variance		
\$18,779,828.00		\$22,569,543		\$3,789,715.00		
Design Schedule		Approved DES Schedule		Proposed DES Schedule		Variance (Days)
Start Date		11/19/2013		11/19/2013		0
Finish Date		7/31/2016		7/31/2016		0
Construction Schedule		Approved CON Schedule		Proposed CON Schedule		Variance (Days)
Start Date		11/18/2014		11/18/2014		0
Finish Date		7/31/2016		7/31/2017		365
Contract Amendment <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
<b>Authorizations</b>						
Name	Title		Date	Yes	Conditional	No
Merva Douglas-Bridges <i>WDB</i>	Sr. Program Mgr, CIP		3/1/16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
John Warner <i>WW</i>	Deputy Director, Conveyance		3/1/16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jackson Jenkins <i>JJ</i>	Director, RWRD		3/1/16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nanette Slusser <i>NS</i>	Assistant County Administrator		3/1/16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Notes, Conditions and/or Reasons for Denial</b>						

160223 3NRI14 NORTH RILLITO INTERCEPTOR REHAB.

**Current Status:**

Phase Name	Spent in Prior Years	FY 2015-15	FY 2016-17	Future Forecast	Total
Right-of-Way	-	20,335	1,000	-	21,335
Planning	-	-	-	-	-
Design	2,048,109	25,550	29,964	-	2,103,623
Construction	4,310,059	6,294,115	6,050,285	-	16,654,459
Utility	411	-	-	-	411
Public Art	-	-	-	-	-
Contingency	-	-	-	-	-
	6,358,579	6,340,000	6,081,249	-	18,779,828

**Requested Change**

Phase Name	Spent in Prior Years	FY 2015-16	FY 2016-17	Future Forecast	Total
Right-of-Way	-	81,702	-	-	81,702
Planning	-	-	-	-	-
Design	2,048,109	(1,298,109)	9,730	-	759,730
Construction	4,310,059	5,312,999	8,104,642	4,000,000	21,727,700
Utility	411	-	-	-	411
Public Art	-	-	-	-	-
Contingency	-	-	-	-	-
	6,358,579	4,096,592	8,114,372	4,000,000	22,569,543
FY Change	-	2,243,408	(2,033,123)	(4,000,000)	(3,789,715)

NOTE: A CORRECTING AJE WILL BE ENTERED TO CORRECT A CHARGE TO DESIGN AT THE START OF THE PROJECT. IT IS ASSUMED THAT THE ENTRY WILL BE REFLECTED IN THE CURRENT YEAR COST. IF THE PRIOR YEAR COST ARE CORRECTED THEN THIS PB WILL BE AMENDED ACCORDINGLY.

## PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT

## **PROJECT:** Construction Manager At Risk Services for The North Rillito Interceptor Rehabilitation Project No. 3NRI14

**CONTRACTOR:** B & F Contracting, Inc.  
1904 W. Prince Rd.  
Tucson, AZ 85705

**AMENDMENT NO.:** Four (4)

**FUNDING:** RWRD Obligation Fund

CONTRACT  
NO. CT-WW-14-189  
AMENDMENT NO. 04  
This number must appear on all  
invoices, correspondence and  
documents pertaining to this  
contract.

<b>CONTRACT TERM:</b> 08/19/2013 - 07/31/2016	<b>ORIGINAL CONTRACT AMOUNT:</b>	\$ 189,292.90
<b>TERMINATION PRIOR AMENDMENT:</b> 07/31/2016	<b>PRIOR AMENDMENT(S):</b>	\$ 17,369,407.39
<b>TERMINATION THIS AMENDMENT:</b> 07/31/2017	<b>AMOUNT THIS AMENDMENT:</b>	\$ 4,127,384.89
	<b>REVISED CONTRACT AMOUNT:</b>	\$ 21,686,085.18

## CONSTRUCTION CONTRACT AMENDMENT

WHEREAS, COUNTY and CONTRACTOR have entered into the Contract for the project referenced above; and

**WHEREAS**, COUNTY and CONTRACTOR now desire to incorporate Guaranteed Maximum Price #3 (GMP-3) into the contract for the continuation of construction services: Cured-In-Place Pipe Lining (CIPP), Manhole Rehabilitation/Coating work, Manhole Adjustments, Manhole Reconstruction, Manhole Concrete Collars, CIPP Inversion Access, Temporary Suction Manhole Access and Cleaning and CCTV Activities; and,

**WHEREAS**, the contract termination date must be extended by 12 months to allow for completion of this work; and,

**WHEREAS**, COUNTY's acceptance of GMP-3 is subject to the understanding of the Parties that all other elements of future GMPs are and remain negotiable.

**NOW, THEREFORE**, it is agreed as follows:

**CHANGE:** The captioned contract amount to read: Not to Exceed \$21,686,085.18

**CHANGE: ARTICLE I – TERM AND EXTENSION, first sentence**

From: "This Contract, as approved by the Board of Supervisors, shall commence on November 19, 2013 and shall terminate on July 31, 2016 unless sooner terminated or further extended for project completion."

To: "This Contract, as approved by the Board of Supervisors, shall commence on November 19, 2013 and shall terminate on July 31, 2017 unless sooner terminated or further extended for project completion."

**CHANGE: ARTICLE III – PAYMENT: PHASE II: PROJECT CONSTRUCTION**

Insert after the third paragraph, incorporated in Contract Amendment #3:

Guaranteed Maximum Price #3 (GMP-3) for the continuation of construction services: Cured-In-Place Pipe Lining (CIPP), Manhole Rehabilitation/Coating work, Manhole Adjustments, Manhole Reconstruction, Manhole Concrete Collars, CIPP Inversion Access, Temporary Suction Manhole Access and Cleaning and CCTV Activities as identified in ATTACHMENT 4 TO APPENDIX "B" is Four Million One Hundred Twenty-Seven Thousand Three Hundred Eighty-Four Dollars and Eighty-Nine Cents (\$4,127,384.89). COUNTY reserves the right to negotiate the construction fee, overhead rate, and all other elements of future GMPs.

ADD: "ATTACHMENT 4 TO APPENDIX "B": Construction Manager at Risk For North Rillito Interceptor Rehabilitation Project No. 3NRI14 GMP-3 Proposal & Supporting Exhibits Dated March 17, 2016 (68 pages, attached)" to Appendix B. 69 KER

This Amendment shall be effective on June 7, 2016.

All other provisions of the Contract, not specifically changed by this amendment, shall remain in effect and be binding upon the parties.

---

IN WITNESS WHEREOF, the parties have affixed their signatures to this Amendment on the dates written below.

APPROVED:

\_\_\_\_\_  
Chair, Board of Supervisors

\_\_\_\_\_  
Date

CONTRACTOR:

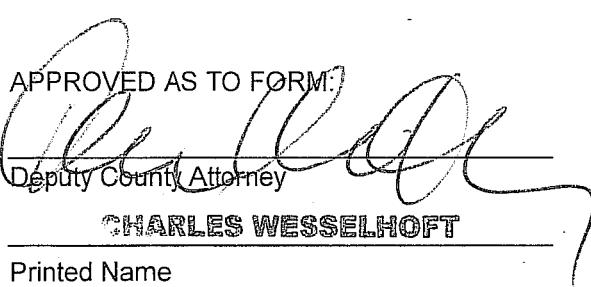
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Thomas F. Foley, President  
Name and Title (Please Print)

\_\_\_\_\_  
5-26-2016  
Date

ATTEST:

\_\_\_\_\_  
Clerk of the Board

\_\_\_\_\_  
APPROVED AS TO FORM:  


\_\_\_\_\_  
Deputy County Attorney

\_\_\_\_\_  
CHARLES WESSELHOFT  
Printed Name

\_\_\_\_\_  
MAY 24 2016  
Date



March 17, 2016

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-00000000000000000000189  
**B&F Job No.:** 3150

**SUBJECT: GMP-3 PROPOSAL & SUPPORTING EXHIBITS**

Dear Mr. Ortiz,

We are pleased to submit our Guaranteed Maximum Price Proposal (GMP-3), 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-3 Proposal Packaged dated March 5, 2015, for this Construction Manager at Risk Project.

B&F proposes to complete the work associated with GMP-3 for a not-to-exceed amount of **\$4,127,384.89**. 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
GMP-2:	\$11,756,766.00
<u>GMP-3:</u>	<u>\$4,127,384.89</u>
GMP-1, 2, & 3 Total:	\$21,010,831.40

**COMBINED SERVICES TOTAL:**

Design Phase:	\$675,253.78
<u>GMP-1, 2 &amp; 3:</u>	<u>\$21,010,831.40</u>
Current Total:	\$21,686,085.18

As part of this GMP, B&F Contracting, Inc. is requesting an additional three-hundred and sixty five (365) calendar days to be added to the project. The additional contract days are contingent upon Pima County Real Properties obtaining Temporary and Permanent Construction Easements for the work outlined Phase 2 & 3 on the project by July 14, 2016. This will allow for the Phase 6 work to transition into Phase 2 or 3, without causing delays. If the TCE's, or Permanent Easements are not acquired before then, additional contract days will be needed.

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'.

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

**EXHIBIT A**  
**TABLE OF CONTENTS**

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

<b>Project No.</b>	3NRI14	<b>Date:</b>	2/17/2016
<b>Project Title</b>	North Rillito Interceptor Rehab Project	<b>GMP</b>	#003
<b>Project Location</b>	Woodland Rd. to Sabino Creek	<b>B&amp;F Job #:</b>	3150

EXHIBIT NO.	DESCRIPTION
	Table of Contents
A.1	Scope of Work
A.2	Summary of the GMP
A.3	GMP-3 Schedule of Values
A.3.b	GMP-3 General Conditions
A.4	List of Plans & Specifications
A.5	List of Clarifications & Assumptions
A.6	Project Schedule
A.7	SBE Requirements
A.8	Vendor & Material Supplier Selections
A.9	Not Used in this GMP
A.10	Bid Analysis, Quotes & Proposal Backup
A.11.a	MH R/R, Fiberglass Inserts, Sprayroc SprayWall Lining - Summary of Costs
A.11.b	Phase 1 MH Removals/Replacements - Cost Breakdown
A.11.c	Phase 6 MH Removals/Replacements - Cost Breakdown
A.11.d	Relocation of 6" Reclaimed Waterline - Cost Breakdown
A.11.e	Temporary Discharge Manhole - Cost Breakdown
A.11.f	Access Road Improvements in Phase 5 - Cost Breakdown
A.12	FMP Phase 3 & 6 Summary of Costs
A.12.a	FMP Summary of Costs
A.12.b	MH R/R, Fiberglass Inserts, Sprayroc SprayWall Lining Summary of Costs

## 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:	2/17/2016
Project Title	North Rillito Interceptor Rehab Project	GMP:	#03
Project Location	Woodland Rd. to Sabino Creek	B&F Job #:	3150

#### GMP-3 Scope of Work

GMP-3 includes costs associated with Flow Management in Phases 3, 6, the Northern Diversion Structure, Vactor pumping of laterals, trenching and asphalt work, and flow thru plugging of the Sabino Creek Siphon. This GMP also includes costs for the structural replacement & rehabilitation of manholes using Polymer Precast, Fiberglass MH inserts, and a structural lining system located at existing MH's in Phases 1, 2 & 6. Work associated with the MH replacements also involved the relocation of an existing 6" reclaimed waterline for Tucson Water in Phase 6 on River Rd. and Sutton.

Other scope of work items include the installation of new 8" PVC, and 27" fiberglass sewer line and manholes located on the 3100 N. Lodge Rd. property in Phase 2 of the project, in lieu of the original trenchless CIPP work. This scope includes all landscape, concrete and asphalt restoration work as needed.

Also included in this GMP are costs associated for the construction of a new 16' wide gravel access path along the sewer easement located within Phase 5 of the project. Other costs to install temporary discharge manholes in Phase 2/3, along with MH cone removals/replacements are included for Phases 3 & 6.

#### 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 1.0 GENERAL REQUIREMENTS

###### Item 1.1 Construction Water

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

###### Item 1.2 PDEQ Dust Control Permit

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

###### Item 1.3 Project Record Drawings & As-Built Requirements

This includes costs for final project as-built documentation, and red-line drawings on the NRI Project. B&F, and Brown & Caldwell to compile all as-built information and compile into one (1) complete and final set of drawings per PCRWRD standards.

###### ITEM 2.0 FLOW MANAGEMENT PLAN (Phases 3, 6, NDS & Sabino Creek Siphon FMP)

###### Item 2.1 Phase 6 – FMP Setup, Testing & Removal (Phase 6A, 6B & 6C)

Includes installation, testing, and teardown of Phase 6 Flow Management System during CIPP, MH Rehab and MH Repair activities. The Phase 6 FMP starts at MH 1710-06 on Pantotac and River Rd., ending just west of Campbell Rd., discharging downstream of the rehabilitation work near MH 1708-13. This FMP is comprised of three (3) major mainline pump station setups, at approximately 5,000 LF to 8,000 LF in length from the suction to the discharge point, handling the 33-inch and 36-inch interceptor flows. There are also numerous smaller pump setups along the way to handle all lateral flows from tributary sewer lines, apartments, condos and business service connections.

###### Item 2.2 Phase 6 – Operational Costs for FMP (6A, 6B, 6C)

Includes daily operation of the FMP system in Phases 6A, 6B and 6C. This includes 24/7 pump operators, pipe monitors, sound attenuated pumps, fittings, valves, spill berms, suction/discharge hoses, HDPE Pipe, fuel, oil/lube and servicing of the FMP equipment.

Item 2.3 Phase 3 FMP Setup, Testing & Removal (Sabino Canyon to Craycroft)

Includes installation, testing, and teardown of Phase 3 Flow Management System during CIPP, MH Rehab and MH Repair activities. The Phase 3 FMP starts at MH 1700-05, east of Sabino Canyon Rd. on the north side of the Rillito River, and ends at Craycroft Rd. discharging downstream of the rehabilitation work. This FMP is comprised of one (1) major mainline pump station setup at approximately 12,000 LF in length from the suction to the discharge point, handling the 27-inch interceptor flow. There are also numerous smaller pump setups along the way to handle all lateral flows from tributary sewer lines, and neighborhoods adjacent to the interceptor.

Item 2.4 Phase 3 – Operational Costs for FMP (Sabino Canyon to Craycroft)

Includes daily operation of the FMP system in Phase 3. This includes 24/7 pump operators, pipe monitors, sound attenuated pumps, fittings, valves, spill berms, suction/discharge hoses, HDPE Pipe, fuel, oil/lube and servicing of the FMP equipment.

Item 2.5 Trenching and Asphalt Work for Discharge Pipe (Phase 6A, 6B & 6C)

Includes all trenching, backfill, compaction, and asphalt restoration work associated with the discharge pipe located at private driveways, businesses or major roadways within Phase 6. 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 phase.

Item 2.6 Trenching and Asphalt Work for Discharge Pipe (Phase 3)

Includes all trenching, backfill, compaction, and asphalt restoration work associated with the discharge pipe located at private driveways, businesses or major roadways within Phase 3. 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 phase.

Item 2.7 Clean NRI Relief Siphons after FMP Shutdown

Includes all cleaning work required to remove any sedimentation or debris in the NRI Relief siphons caused by the Northern Diversion Structure being used during the FMP for Phase 6.

Item 2.8 Vactor Pump Laterals in Phase 3 & 6

Includes costs for an onsite vactor truck to pump flows from lateral lines or house service connections during flow management operations during CIPP lining and MH Rehabilitation efforts. This includes an hourly allowance to be used as needed for Phase 3 and 6.

Item 2.9 Modify/Shorten existing FMP to Pump/Relieve Flows from NDS for Flow Thru Plugs

This includes the setup and teardown of a standby FMP setup with three (3) each 12-inch pumps, and associated piping, valves, fittings and manifolds as necessary to relieve flows from the flow thru plug in the Northern Diversion Structure during Wet-Weather related events, during Phase 5 of the project.

Item 2.10 Operate Modified FMP to Relieve Flows from Flow Thru Plug in NDS

This includes the operational costs associated with the standby FMP setup in Phase 5 for the flow thru plug in the Northern Diversion Structure (NDS).

Item 2.11 Flow Thru Plugs for FMP Diversion at Sabino Creek Siphon

This includes costs for ordering specialized flow thru plugs to divert and re-route flows at the Sabino Creek Siphon inlet structure during the cleaning and assessment of the first siphon barrel.

**ITEM 3.0 MH REPLACEMENTS & FIBERGLASS STRUCTURAL INSERTS**Item 3.1 Remove/Replace Existing MH's 8716-07, 8716-06, 8716-03

This item includes the removal and replacement of the existing manhole due to severe deterioration and hydraulic issues, after a manhole condition assessment was performed. This includes the complete removal of the existing concrete base, and concrete manhole shaft material, which was replaced with a new cast-in-place, epoxy-coated base (Sewer Shield 150), with 72" polymer precast manhole shaft material for corrosion resistance. This item also includes backfill, compaction, landscape restoration, cretex grade rings, survey/as-built, shoring, vacuum testing, saw-cutting, and AC pavement replacement.

Item 3.2 Install Fiberglass Structural MH Insert at Existing MH's 8716-05, 8716-04, 8716-02}

This scope of work includes the removal of the existing MH cone, and installation of a new fiberglass structural insert within the existing MH, in order to rehabilitate it. The product selected for use was LFM for the insert, and Sewer Shield 150 for the epoxy coating on the base. This also includes the rehabilitation and coating work of the existing base, channels and inverts on the manhole. This also included the excavation, backfill, compaction, and pavement replacement work.

Item 3.3 Phase 6 Manhole Replacements (MH's 1708-36, 1708-34, 1708-34A)

This item includes the removal and replacement of the existing manhole due to severe deterioration and hydraulic issues, after a manhole condition assessment was performed. This includes the complete removal of the existing concrete base, and concrete manhole shaft material, which was replaced with a new cast-in-place, epoxy-coated base (Sewer Shield 150), with 84" and 120" polymer precast manhole shaft material for corrosion resistance. This item also includes backfill, compaction, landscape restoration, cretex grade rings, survey/as-built, shoring, vacuum testing, saw-cutting, and AC pavement replacement at each of the replacement locations.

Item 3.4 - 6" Reclaimed Water Line Relocation for MH 1708-36 Base

This scope of work includes the relocation of an existing 6" reclaimed water line in conflict with the new manhole base at MH 1708-36 at the intersection of River Rd. and Sutton Rd. B&F was required to relocate the existing un-mapped 6" reclaimed line around the new MH base, in order to complete our scope of work. This included furnishing, installing and testing of new Class 350 DIP, fittings, and valves as required to complete the relocation work, per Tucson Water standard specifications.

**ITEM 4.0 SEWER REALIGNMENT, SPRAYROQ LINING SYSTEM, MH CONE REMOVAL, DISCHARGE MH, ACCESS PATH, SABINO SIPHON****Item 4.1 – 3100 N. Lodge Rd. 27" Sewer Realignment Work**

This scope of work includes the costs associated with the 27" sewer realignment work located near 3100 N. Lodge Rd. This includes the installation of two (2) each 84" corrosion resistant manholes, one (1) each 48" corrosion resistant manhole, approximately 105 LF of 27" Flowtite Fiberglass sewer pipe, and 130 LF of 8" PVC sewer pipe. This work is being performed to eliminate access and hydraulic issues with an existing manhole. Other work includes engineering and design, survey layout, as-builts, SWPPP, on site concrete/landscape/masonry restoration, paver, automated gate replacement, concrete drainage channel repair, miscellaneous fencing removal/replacement, railing repair, CMU Wall Repair, street sign replacement, vertical curb replacement, concrete driveway and paver replacement.

**Item 4.2 – Sprayroq SprayWall Structural Rehabilitation and Coating System**

This line item includes for the structural lining/coating system rehabilitation at eleven (11) existing manholes, located within Phase 2 & 6 on the NRI Project. This lining system has been proposed as a Value Engineering alternative, in lieu of complete replacing manholes identified in the manhole condition assessment. This is being done as a test section for these manholes.

**Item 4.3 – MH Cone Removals/Replacements for CIPP Inversion in Phase 3 & 6**

This line item is for the removal/replacement of manhole cones as necessary to facilitate the installation and CIPP inversion for shots located within Phase 3 & 6. This includes the excavation and removal of the existing cone, and replacement with a flat-top precast manhole. B&F to also provide backfill, compaction and AC replacement depending on the location.

**Item 4.4 – Install Temporary Discharge Manhole (Phase 2 & 3)**

This includes costs as necessary for the installation of a temporary discharge manhole as required for the Flow Management System in Phases 2 and 3. This includes the removal

**Item 4.5 – RWRD Easement Access Path – 16' Wide New Gravel Path**

This includes pathway improvement work along the sewer easement in Phase 5 between Swan Rd. and the George Mehl park area along the NRI alignment. B&F re-graded areas, and added a wider gravel access road to improve access for RWRD support and maintenance equipment in this area. Previously, access was limited only to smaller sections of the sewer easement.

**Item 4.6 – Sabino Creek Siphon Condition Assessment Cleaning on 20" Siphon Barrel**

Includes all costs for cleaning, and removal of debris inside the existing 20" siphon barrel at the Sabino Creek Siphon.

## EXHIBIT A.3 GUARANTEED MAXIMUM PRICE (GMP-3)

B&F CONTRACTING, INC.

ECT: Construction Manager at Risk (CMAR) Services for North Rillito  
Interceptor Rehabilitation Project No. 3NRI14  
Pima County Regional Wastewater Reclamation Department

Date: 2/17/2016

Revision: 1 - VE MH's

Tucson Office: 1904 W. Prince Rd., Tucson, AZ 85706  
Corporate HQ: 11011 N. 23rd Ave., Phoenix, AZ 85029  
Office: 623-582-1170 | Fax: 623-582-3761  
AZ Licenses: ROC-989; A General Engineering



RCC-1112 B-04 General Engineering

ITEM	Description	Sub/Self Perform	QTY	UNIT	Unit Price	Total Price
<b>1.0 GENERAL REQUIREMENTS</b>						
1.1	Construction Water	CoT	400	MGAL	\$ 7.00	\$ 2,800.00
1.2	PDESQ Dust Control Permit (Phase 3 & 6)	B&F	2	EA	\$ 625.00	\$ 1,250.00
1.3	Project Record Drawings & As-Built Requirements	B&F	1	EA	\$ 11,976.00	\$ 11,976.00
<b>GENERAL REQUIREMENTS SUBTOTAL</b>						\$ 16,026.00
<b>2.0 FLOW MANAGEMENT (PHASES 3, 6, NDS &amp; SABINO CREEK SIPHON FMP)</b>						
2.1	Phase 6 - FMP Setup, Testing & Removal (Phase 6A, 6B & 6C)	B&F	LS	1	\$ 374,617.00	\$ 374,617.00
2.2	Phase 6 - Operational Costs for FMP (6A, 6B, 6C)	B&F	LS	1	\$ 887,446.36	\$ 887,446.36
2.3	Phase 3 - FMP Setup, Testing & Removal (Sabino Canyon to Craycroft)	B&F	LS	1	\$ 290,152.76	\$ 290,152.76
2.4	Phase 3 - Operational Costs for FMP (Sabino Canyon to Craycroft)	B&F	LS	1	\$ 453,429.02	\$ 453,429.02
2.6	Trenching and Asphalt Work for Discharge Pipe (Phase 6A, 6B & 6C)	B&F	LS	1	\$ 76,006.75	\$ 76,006.75
2.6	Trenching and Asphalt Work for Discharge Pipe (Phase 3)	B&F	LS	1	\$ 33,466.13	\$ 33,466.13
2.7	Clean NRI Relief Siphons After FMP Shutdown	Pro-Pipe	LS	1	\$ 1,950.00	\$ 1,950.00
2.8	Vactor Plump Laterals in Phases 3 & 6	Pro-Pipe	HR	40	\$ 195.00	\$ 7,800.00
2.9	Modify/Shorten existing FMP to Pump/Relieve Flows from NDS for Flow Thru Plug	B&F	EA	1	\$ 19,681.42	\$ 19,681.42
2.10	Operate Modified FMP to Relieve Flows from Flow Thru Plug	B&F	DAYS	21	\$ 3,223.00	\$ 69,783.00
2.11	Flow Thru Plugs for FMP Diversion at Sabino Creek Siphon	B&F	EA	1	\$ 4,829.54	\$ 4,829.54
<b>FLOW MANAGEMENT (PHASES 3, 6, NDS &amp; SABINO CREEK SIPHON FMP) SUBTOTAL</b>						\$ 2,019,163.06
<b>3.0 PHASE 1 &amp; 6 MH REPLACEMENTS AND FIBERGLASS STRUCTURAL INSERTS</b>						
3.1	Phase 1 MH Replacements (MH's 8716-07, 8716-06, 8716-03)	B&F	LS	1	\$ 150,159.64	\$ 150,159.64
3.2	Install Fiberglass Structural MH Inserts (MH's 8716-C5, 8716-04, 8716-02)	B&F	LS	1	\$ 47,873.36	\$ 47,873.36
3.3	Phase 6 Manhole Replacements (MH's 1708-36, 1708-34, 1708-34A)	B&F	LS	1	\$ 312,364.66	\$ 312,364.66
3.4	6" Reclaimed Water Line Relocation for MH 1708-36 Base	B&F	LS	1	\$ 8,637.25	\$ 8,637.25
<b>PHASE 1 &amp; 6 MH REPLACEMENTS &amp; FIBERGLASS STRUCTURAL INSERTS SUBTOTAL</b>						\$ 519,034.91
<b>4.0 SEWER REALIGNMENT, SPRAYROQ LINING SYSTEM, MH CONE REMOVAL, DISCHARGE MH, ACCESS PATH, SABINO SIPHON</b>						
4.1	3100 N. Lodge Rd. 27" Sewer Realignment Work	B&F	LS	1	\$ 426,075.01	\$ 426,075.01
4.2	Sprayroq SprayWall Structural Rehabilitation and Coating System	Pro-Pipe	SF	4091	\$ 60.00	\$ 247,505.50
4.3	MH Cone Removals/Replacements for CIPP Inversion In Phase 2 & 6	B&F	EA	5	\$ 6,374.72	\$ 31,873.00
4.4	Install Temporary Discharge Manhole (Phase 2 & 3)	B&F	EA	1	\$ 11,129.92	\$ 11,129.92
4.5	RWWD Easement Access Path - 16' Wide New Gravel Path	B&F	EA	1	\$ 18,186.56	\$ 18,186.56
4.6	Sabino Creek Siphon Condition Assessment Cleaning on 20" Siphon Barrel	Pro-Pipe	LS	1	\$ 7,350.00	\$ 7,350.00
<b>SEWER REALIGNMENT, SPRAYROQ LINING, MH CONE REMOVAL, DISCHARGE MH, ACCESS PATH, SABINO SIPHON SUBTOTAL</b>						\$ 742,120.59
<b>SUBTOTAL #1 - DIRECT COST WORK ITEMS</b>						\$ 3,295,344.56

(% B/L) 4.31% GENERAL CONDITIONS \$ 177,953.76 GMP SUBTOTAL \$ 3,474,298.32

10.00% CONSTRUCTION FEE \$ 347,429.83 GMP + FEE SUBTOTAL \$ 3,821,728.15

1.00% PAYMENT/PERFORMANCE \$ 41,273.85 GMP + FEE + BOND SUBTOTAL \$ 3,863,002.00

1.60% GENERAL LIABILITY INS. \$ 57,945.03 GMP + FEE + BOND + INSURANCE SUBTOTAL \$ 3,920,947.03

6.265% TAX \$ 206,437.86 GMP + FEE + BOND + INSURANCE + TAX SUBTOTAL = TOTAL GMP-3 \$ 4,127,384.89

TOTAL GMP-3 \$ 4,127,384.89

**EXHIBIT A.3.b**  
**GENERAL CONDITIONS**

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

Project No.	3NR114	Date:	2/17/2016
Project Title	North Rillito Interceptor Rehab Project	GMP	#03
Project Location	Woodland Drive to Campbell Rd. along the Rillito	B&F Job #:	3150

GC'S - Estimated Duration	4	MTH
Hours per Month	160	HRS

ITEM NO.	ITEM DESCRIPTION	QTY	Total % of Project	CALC. HOURS	UNIT	UNIT COST	TOTAL COST
	<b>GENERAL CONDITIONS - Estimated Duration</b>						
01	PROJECT DIRECTOR	640	10.00%	64.00	HR	\$ 121.99	\$ 7,807.36
D2	PROJECT MANAGER	640	100.00%	640.00	HR	\$ 82.26	\$ 52,646.40
D3	PROJECT SUPERINTENDENT	640	100.00%	640.00	HR	\$ 87.13	\$ 55,763.20
D4	PROJECT ENGINEER	640	100.00%	640.00	HR	\$ 66.62	\$ 42,696.80
D5	PROJECT PHOTOGRAPHY (PHOTOS/VIDEO)	4	100.00%		EA	\$ 100.00	\$ 400.00
D6	TEMPORARY PROJECT YARD / LOT RENTALS	4	100.00%		MO	\$ 2,000.00	\$ 8,000.00
D7	TEMPORARY FENCING (Approx. 1500 LF)	4	100.00%		MO	\$ 200.00	\$ 800.00
D8	COMEX BOX STORAGE CONTAINERS	4	0.00%		MO	\$ 300.00	\$ -
D9	FIELD TECHNOLOGY WIRELESS EQUIPMENT (TABLETS) (3 ea)	4	300.00%		MO	\$ 125.00	\$ 1,500.00
D10	MISC. YARD TRASH DUMPSTERS	4	100.00%		MO	\$ 600.00	\$ 2,400.00
D11	ON-SITE TEMPORARY OFFICE	4	0.00%		MO	\$ 315.00	\$ -
D12	GENERATOR FOR TEMPORARY POWER	4	50.00%		MO	\$ 900.00	\$ 1,800.00
D13	OFFICE SUPPLIES MISC.	4	100.00%		MO	\$ 350.00	\$ 1,400.00
D14	PROJECT ICE & DRINKING WATER	4	100.00%		MO	\$ 200.00	\$ 800.00
D15	FIELD RADIOS & CELL PHONES FOR PUMP WATCH (2 ea)	4	200.00%		MO	\$ 250.00	\$ 2,000.00
D16	PORTABLE FIELD TOILETS	4	300.00%		MO	\$ 100.00	\$ 1,200.00
<b>TOTAL GMP GENERAL CONDITIONS</b>							<b>\$ 177,933.76</b>

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

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

Project No.	3NRI14	Date:	12/17/2016
Project Title	North Rillito Interceptor Rehab Project	GMP	#03
Project Location	Woodland Rd. to Sabino Creek	B&F Job #:	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 3 & 6 developed by B&F Contracting and Brown & Caldwell

Technical Requirements and Specifications for Sprayroq SprayWall Product

NRI Project - Manhole Replacements Structural Drawings, sheets 1 through 15 dated, October 6th 2015

## 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-3 includes costs for Flow Management at Phase 3 & 6 only.
2. 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.
3. This GMP includes additional construction water costs as required for CIPP Lining, Dust Control and Hydrostatic Testing of the FMP System in item 1.1.
4. Includes costs for developing Project Record Drawings and As-Built Requirements, as agreed upon. Includes delivery of new plan sets, and incorporation of changes throughout project.
5. 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.
6. 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.
7. 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. B&F anticipates a 14 month schedule for GMP-3, and will utilize 14 rain days as required.
8. B&F and Brown & Caldwell developed Structural Manhole Replacement drawings identifying manholes to be replaced throughout the project. At the request of RWRD, due to budgetary issues, B&F found a Value Engineering opportunity to install a structural coating/lining system at selected manholes to reduce costs as a "Test", per RWRD. MH's identified for full replacement using traditional excavation methods include MH 8716-07, 8716-06, 8716-03, 1708-36, 1708-34, and 1708-34A, using new cast-in-place concrete manhole bases and corrosion resistant manhole shaft material supplied by Geneva Polymer. MH's identified for Value Engineering using the Sprayroq SprayWall structural lining/coating system include; MH 1700-15, 6295-01, 1811-01A, 1700-12, 1700-13, 1700-11, 1700-09, 1700-08, 1700-08, 1700-16 & 1708-30.
9. B&F to provide structural replacement using Sprayroq SprayWall lining system. This coating rehabilitation work includes the removal/replacement of existing steps, 3 year Maintenance Bond, and Spark Testing. The installation of this product is being conducted as a Test Demonstration, and may or may not apply to the NRI Coating specification developed on this project. The Sprayroq SprayWall structural lining system has its own set of specifications and manufacturer's recommendations for application, coating and testing. The NRI coating specification shall not apply.
10. Sprayroq SprayWall coating thickness is 300 Mil. Extra thickness required by RWRD would be an additional cost.
11. Independent 3<sup>rd</sup> Party NACE Level 3 Certified Inspectors costs not included with the Sprayroq coating costs.

12. Pull Testing / Adhesion Testing has been excluded for the MH's referenced above receiving the Sprayroq SprayWall lining system. Additional costs to be incurred if requested by Field Engineering
13. Application of cementitious underlayment has been excluded for the MH's referenced above receiving the Sprayroq SprayWall lining system. Additional costs to be incurred if requested by Field Engineering.
14. Manhole shaft material installed for the structural manhole replacements at MH's 8716-07, 8716-06, 8716-03, 1708-36, 1708-34, and 1708-34A to be Geneva Polymer/Armorock. This product was approved as a Test on the project from RWRD due to its beneficial corrosion resistant properties.
15. MH shaft material installed for the fiberglass manhole replacements at MH's 8716-05, 8716-04 and 8716-02 to be LFM Fiberglass Inserts. This product was approved as a Test on the project from RWRD due to its beneficial corrosion resistant properties.
16. 3100 N. Lodge Rd. 27" Sewer Realignment work assumes RWRD can obtain all the necessary TCE's, Permanent Easements and Permits as necessary to complete this scope of work.
17. Fiberglass pipe material used for the 27" Sewer Realignment work has been selected to be Flowtite. This is being used as a test or demonstration product, at the requested of RWRD on the NRI Project.
18. 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.
19. Clarifications and Assumptions included on this Exhibit or others take precedence over all Special Provisions, Standard Specifications & Details, or Contract Requirements on this project.
20. 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. Inspection availability is anticipated to be 24/7 on this project, and B&F is not responsible for any overtime inspection costs.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. HDPE discharge lines to be disinfected and cleaned prior to removal using 12.5% Hypochlorite solution.
27. Excludes any costs for the removal of hazardous materials.
28. Excludes costs for chip sealing of any kind.
29. 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.
30. Excludes any costs associated with Hard Dig conditions, rock excavation, blasting or hydraulic breakers of any kind.
31. GMP-3 will require an additional (365) calendar days to be added to the contract, extending the project through the end of July 2017 to account for added scope of work items.

32. GMP-3 Excludes all costs associated with RFCD and NRPR Right-of-Way access permits and/or fees..
33. Work located in Phase 3 will require Temporary Construction Easements (TCE's) to complete the rehabilitation and FMP work. B&F assumes the county will have all the permitting and easements worked out, as to not delay the NRI project schedule. Any delays and/or costs will be assessed as required.
34. Excludes costs related to TCE's or Permanent Easement acquisition.
35. Phase 3 & 6 Flow Management assumes the acceptable placement of HDPE, pumps and fittings located on the RWRD easement and Cesare Property.
36. Flow Management Plan trenching and asphalt restoration costs are included for phase 3 and 6 only.
37. General Condition costs were estimated at 4 months for GMP-3. B&F anticipates a total project schedule of 24 to 26 months.
38. Sabino Creek Siphon Condition Assessment Cleaning on the 20" barrel includes cleaning and video only. RWRD directed B&F to halt any additional rehabilitation efforts for CIPP lining of the siphon barrels. Costs are for the cleaning and video of the 20" siphon barrel only.
39. RWRD Easement Access Path includes a 16' wide gravel path located within Phase 5 (Swan Rd. to George Mehl Park). This includes new gravel in and around the sewer easement and trail path areas. B&F excludes any costs associated with this path outside of Phase 5.
40. Includes costs to install temporary discharge MH in Phase 2 or 3, if required by the Flow Management System.
41. Excludes any costs related to dewatering of ground water.
42. Includes costs for the removal of MH Cones, and replacement with flat top manhole material if required for CIPP inversion. B&F to install these as required by Insituform.
43. GMP-3 includes costs for the relocation of an unidentified 6" reclaimed water line near MH 1708-36 that was in conflict with the new CIP base. B&F to re-route the new 6" reclaimed line around the base in coordination with Tucson Water.
44. GMP-3 assumes the use of the Loop Bike Path to allow for constructability of the project in all phases.

NRI REHAB PROJECT NO. ENR014

Exhibit A.6 - Project Schedule

Row	Task	Task Name	Duration	Start	End	10/10	10/11	10/12	10/13	10/14	10/15	10/16	10/17	10/18	10/19	10/20	10/21	10/22	10/23	10/24	10/25	10/26	10/27	10/28	10/29	10/30	10/31	10/32
1	ENR	NRI Rehab Project - Phase 5 Construction	162 days	Mon 10/1/15	Wed 3/8/16																							
22	ENR	Phase 4 Construction	72 days	Mon 4/13/15	Tue 7/31/15																							
35	ENR	Phase 1 Construction	72 days	Wed 7/1/15	Wed 7/26/15																							
56	ENR	Phase 0 Construction	155 days	Mon 10/15/15	Mon 1/19/16																							
67	ENR	Mobile Equipment & Materials	6 days	Mon 10/15/15	Thu 10/20/15																							
45	ENR	TPM System Installation - Phase 5A	21 days	Mon 10/20/15	Mon 11/20/15																							
49	ENR	Install New MH Structures - Phase 5A	31 days	Mon 11/21/15	Mon 12/21/15																							
70	ENR	CPP Uning, Clean, CCTV, MH Rehab - Phase 5A	35 days	Mon 11/23/15	Mon 12/28/15																							
72	ENR	Takedown TPM System - Phase 5A	25 days	Mon 12/29/15	Mon 1/25/16																							
73	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 1/26/16	Mon 2/22/16																							
74	ENR	TPM System Installation - Phase 5A	32 days	Mon 1/27/16	Mon 2/28/16																							
75	ENR	Install New MH Structures - Phase 5A	35 days	Mon 2/29/16	Mon 3/24/16																							
76	ENR	Takedown TPM System - Phase 5A	25 days	Mon 3/25/16	Mon 4/19/16																							
77	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 4/20/16	Mon 5/18/16																							
78	ENR	TPM System Installation - Phase 5A	32 days	Mon 5/19/16	Mon 6/20/16																							
79	ENR	Install New MH Structures - Phase 5A	35 days	Mon 6/21/16	Mon 7/14/16																							
80	ENR	Takedown TPM System - Phase 5A	25 days	Mon 7/15/16	Mon 8/10/16																							
81	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 8/11/16	Mon 9/26/16																							
82	ENR	TPM System Installation - Phase 5A	32 days	Mon 9/27/16	Mon 10/29/16																							
83	ENR	Install New MH Structures - Phase 5A	35 days	Mon 10/30/16	Mon 11/24/16																							
84	ENR	CPP Uning, Clean, CCTV, MH Rehab - Phase 5A	35 days	Mon 11/25/16	Mon 1/14/17																							
85	ENR	Takedown TPM System - Phase 5A	25 days	Mon 1/15/17	Mon 2/22/17																							
86	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 2/23/17	Mon 4/10/17																							
87	ENR	TPM System Installation - Phase 5A	32 days	Mon 4/11/17	Mon 5/13/17																							
88	ENR	Install New MH Structures - Phase 5A	35 days	Mon 5/14/17	Mon 6/18/17																							
89	ENR	Takedown TPM System - Phase 5A	25 days	Mon 6/19/17	Mon 7/13/17																							
90	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 7/14/17	Mon 8/22/17																							
91	ENR	TPM System Installation - Phase 5A	32 days	Mon 8/23/17	Mon 9/24/17																							
92	ENR	Install New MH Structures - Phase 5A	35 days	Mon 9/25/17	Mon 10/20/17																							
93	ENR	Takedown TPM System - Phase 5A	25 days	Mon 10/21/17	Mon 11/17/17																							
94	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 11/18/17	Mon 1/12/18																							
95	ENR	TPM System Installation - Phase 5A	32 days	Mon 1/13/18	Mon 2/10/18																							
96	ENR	Install New MH Structures - Phase 5A	35 days	Mon 2/11/18	Mon 3/16/18																							
97	ENR	Takedown TPM System - Phase 5A	25 days	Mon 3/17/18	Mon 4/11/18																							
98	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 4/12/18	Mon 5/10/18																							
99	ENR	TPM System Installation - Phase 5A	32 days	Mon 5/11/18	Mon 6/13/18																							
100	ENR	Install New MH Structures - Phase 5A	35 days	Mon 6/14/18	Mon 7/19/18																							
101	ENR	Takedown TPM System - Phase 5A	25 days	Mon 7/20/18	Mon 8/14/18																							
102	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 8/15/18	Mon 9/23/18																							
103	ENR	TPM System Installation - Phase 5A	32 days	Mon 9/24/18	Mon 10/26/18																							
104	ENR	Install New MH Structures - Phase 5A	35 days	Mon 10/27/18	Mon 11/21/18																							
105	ENR	Takedown TPM System - Phase 5A	25 days	Mon 11/22/18	Mon 12/17/18																							
106	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 12/18/18	Mon 1/14/19																							
107	ENR	TPM System Installation - Phase 5A	32 days	Mon 1/15/19	Mon 2/13/19																							
108	ENR	Install New MH Structures - Phase 5A	35 days	Mon 2/14/19	Mon 3/18/19																							
109	ENR	Takedown TPM System - Phase 5A	25 days	Mon 3/19/19	Mon 4/13/19																							
110	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 4/14/19	Mon 5/12/19																							
111	ENR	TPM System Installation - Phase 5A	32 days	Mon 5/13/19	Mon 6/10/19																							
112	ENR	Install New MH Structures - Phase 5A	35 days	Mon 6/11/19	Mon 7/16/19																							
113	ENR	Takedown TPM System - Phase 5A	25 days	Mon 7/17/19	Mon 8/11/19																							
114	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 8/12/19	Mon 9/10/19																							
115	ENR	TPM System Installation - Phase 5A	32 days	Mon 9/11/19	Mon 10/08/19																							
116	ENR	Install New MH Structures - Phase 5A	35 days	Mon 10/09/19	Mon 11/13/19																							
117	ENR	Takedown TPM System - Phase 5A	25 days	Mon 11/14/19	Mon 12/09/19																							
118	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 12/10/19	Mon 01/13/20																							
119	ENR	TPM System Installation - Phase 5A	32 days	Mon 01/14/20	Mon 02/10/20																							
120	ENR	Install New MH Structures - Phase 5A	35 days	Mon 02/11/20	Mon 03/16/20																							
121	ENR	Takedown TPM System - Phase 5A	25 days	Mon 03/17/20	Mon 04/11/20																							
122	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 04/12/20	Mon 05/10/20																							
123	ENR	TPM System Installation - Phase 5A	32 days	Mon 05/11/20	Mon 06/08/20																							
124	ENR	Install New MH Structures - Phase 5A	35 days	Mon 06/09/20	Mon 07/14/20																							
125	ENR	Takedown TPM System - Phase 5A	25 days	Mon 07/15/20	Mon 08/09/20																							
126	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 08/10/20	Mon 09/15/20																							
127	ENR	TPM System Installation - Phase 5A	32 days	Mon 09/16/20	Mon 10/13/20																							
128	ENR	Install New MH Structures - Phase 5A	35 days	Mon 10/14/20	Mon 11/19/20																							
129	ENR	Takedown TPM System - Phase 5A	25 days	Mon 11/20/20	Mon 12/17/20																							
130	ENR	Pavement, Sidewalk and Landscaping Restoration - Phase 5A	58 days	Mon 12/18/20	Mon 01/14/21	</td																						

## 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>
J4 Civil Specialists	CIP MH Bases	\$66,617.00
TOTAL ESTIMATED SBE UTILIZATION:		<u>\$66,617.00</u>

After receiving proposals from one SBE Contractor, for an anticipated SBE participation value of \$42,692.00, this puts GMP-3 at a participation rate of 1.61%, on a total of \$4,127,384.89

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

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

Project No.	3NR14	Date:	2/17/2016
Project Title	North Rillito Interceptor Rehab Project	GMP	#03
Project Location	Woodland Rd. to Sabino Creek	B&F Job #:	3150

Description	Subcontractor/Vendor/Supplier	Amount	Reason For Selection
Structural Coating/Lining System	Fuquay, Inc.	\$ 247,506.50	Qualifications / Price
Specialty Flow Thru-Plugs	Axiom Plugs	\$ 4,829.64	Qualifications / Price
Sabino Creek Siphon Cleaning	Pro-Pipe	\$ 7,350.00	Qualifications / Price
NRI Relief Sewer Siphon Cleaning	Pro-Pipe	\$ 1,950.00	Qualifications / Price
Vactor Pumping on Laterals	Pro-Pipe	\$ 7,800.00	Qualifications / Price
New CIP MH Base Construction	J4 Civil Specialists	\$ 66,617.00	SBE / Qualifications / Price
Fiberglass Structural MH Inserts	LF Manufacturing (LFM)	\$ 12,569.00	Qualifications / Price
Polymer Precast Manhole Shaft Material	Geneva Polymer Products	\$ 111,766.35	Qualifications / Price

## **EXHIBIT A.10**

### **BID ANALYSIS, QUOTES & COST BACKUP**

**Construction Manager at Risk for Pima County Regional  
Wastewater Reclamation Department - North Rillito Interceptor  
Rehabilitation Project No. 3NRI14**

See the following attached bids and quotes from material suppliers, vendors, subcontractors, and cost breakdown or 3100 N. Lodge Rd. Sewer Realignment etc.:



**FUQUAY, INC.**  
CERTIFIED WOMEN-BUSINESS

P.O. BOX 316046 NEW BRAUNFELS, TEXAS 78138-0946

**BuyBoard**

PHONE 1830 606-1862 FAX (830) 606-1855

**PROPOSAL -revised**

BID DATE: 01/29/16

PROJECT: North Rillito Interceptor Rehabilitation Project Manhole Rehabilitation  
Tucson, AZ

WE PROPOSE TO PROVIDE ALL THE MATERIALS, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE THE FOLLOWING ITEMS FOR THE PROJECT REFERENCED ABOVE.

ITEM-CODE ALT ITEM NO. NO.	DESC S.P. CODE NO.	BID ITEM DESCRIPTION	ITEM UNIT	APPROX. QTY'S	UNIT BID PRICE	AMOUNT
----------------------------------	-----------------------	----------------------	--------------	------------------	-------------------	--------

**MANHOLES TO BE REHABILITATED PER SPRAYROQ & FUQUAY SPECIFICATION**

1	SPRAYWALL LINING - 300 MILS ONLY (Manholes 1700-15, 6295-01, 1811-01A, 1700-12, 17-13, 1700-11, 1700-09 1700-08, 1700-07, 1700-16, & 5117-00)	SF	4.00	\$50.50	\$202.50
---	---	----	------	---------	----------

\* Price includes removal and replacement of exterior steps  
\* Price includes 3 - Year Maintenance Bond

Changed to  
MH 1708-30

**SPECIAL PROJECT NOTES**

- 1) PROPOSAL INCLUDES SPARK TESTING.
- 2) PRICE INCLUDES THE REMOVAL AND REPLACEMENT OF INTERIOR STEPS.
- 3) PRICE INCLUDES 3 - YEAR MAINTENANCE BOND.
- 4) NO FULL TESTING IS INCLUDED SINCE LINING SYSTEM IS DESIGNED FOR FULLY DETERIORATED PIPE WITH NO ADHESION TO HOST.
- 5) PRICE INCLUDES ONE MOBILIZATION. ADDITIONAL MOBILIZATION ARE \$4,500.00/EA.
- 6) NOTE ADDITIONAL EXCLUSIONS BELOW.

ALL MATERIAL IS GUARANTEED TO BE AS SPECIFIED, AND THIS WORK TO BE PERFORMED IN ACCORDANCE WITH THE DRAWING AND SPECIFICATIONS SUBMITTED FOR THE ABOVE WORK AND COMPLETED IN A SUBSTANTIAL WORKMANLIKE MANNER. ANY ALTERATION OR DIVIATION FROM SPECIFICATIONS AND DRAWINGS INVOLVING EXTRA COSTS WILL BE EXECUTED ONLY UPON WRITTEN ORDERS AND WILL BECOME AN EXTRA CHARGE OVER AND ABOVE THE QUOTATION. WORKER'S COMPENSATION AND PUBLIC LIABILITY INSURANCE ON ABOVE WORK TO BE FURNISHED BY FUQUAY, INC. THERE MAY BE AN ADDITIONAL CHARGE FOR PROVIDING A WAIVER OF SUBROGATION AND/OR BEING LISTED AS AN ADDITIONAL INSURED ON FUQUAY'S INSURANCE. THE CHARGE SHALL BE EQUAL TO THE AMOUNT CHARGED TO FUQUAY FOR SAID SERVICE.

**EXCLUSIONS:**

SALES TAX  
PERMITS, BURDENS, FEES  
WASTE HAUL-OFF  
SURVEYING  
SITE CLEARING

BARRICADES, SIGNS, TRAFFIC HANDLING  
INFILTRATION REPAIR  
DEWATERING  
ALL BYPASS PUMPING AND PIPE PLACEMENT  
BOND, SALES TAX, AND OCP

**TERMS:**

PAYMENT FOR SERVICES SHALL BE DUE AND PAYABLE WITHIN THIRTY DAYS OF THE DATE/MONTH THE WORK IS PERFORMED. THIS PROPOSAL MAY BE WITHDRAWN BY US IF NOT ACCEPTED WITHIN THIRTY DAYS.

ACCEPTED BY: \_\_\_\_\_

RESPECTFULLY SUBMITTED,

COMPANY: \_\_\_\_\_

FUQUAY, INC.

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_



Bid Item 4.6 - Sabino Creek  
Siphon Condition  
Assessment Cleaning on 20"  
Siphon Barrel, Exhibit A.10



A Division of Hoffman Southwest Corporation

State Contractor # ROC175953

INVOICE

B&F CONTRACTIONG  
11011 N 23RD AVE  
PHOENIX, AZ 85029

Invoice No:	T214333
Inv. Date:	12/1/2015
JOC	3160

MULTIPLE ADDRESSES

ITEMS	QUANTITY	UNIT	PRICE	Total
SIPHON CLEAN SIPHON - FIRST BARREL	0.5	LS	\$ 14,700.00	\$ 7,350.00

TOTAL \$ 7,350.00  
TAX  
RECEIVED \$ -  
Due \$ 7,350.00

(Please detach and return with your payment)

B&F CONTRACTIONG  
11011 N 23RD AVE  
PHOENIX, AZ 85029

Invoice No:	T214333
Inv. Date:	12/1/2015
JOC	3160

BALANCE DUE \$ 7,350.00

4940 West Watkins Street, Phoenix, AZ 85043 Phone (602) 861-3944 FAX (602) 861-1423

V98343

AZ Lic. ROC # 175953 (A-12)



Quote # AZ : 090415-63

Page 1 of 1

PROPOSAL SUBMITTED TO: B&F Contracting		DATE 9/4/2015	PHONE 520-207-8228	
STREET (Business address) 1904 W. Prince Rd		JOB / PROJECT NAME NRI Relief Cleaning		
CITY, STATE AND ZIP CODE Tucson, Az 85705		JOB LOCATION Tucson, Az		
CONTACT NAME Dan Foley		EMAIL dfoley@bfccontracting.com		
ITEM	DESCRIPTION	QTY	UNIT	PRICE
1	Clean Double Barrel Siphon & CCTV	1	LS	\$1,950.00
NOTE	3 Man Crew with Flex Hose for Confined Space			
GRAND TOTAL: \$1,950.00				

## EXCLUSIONS ( any qualifications to exclusions are in parenthesis )

- 1 Excavation of Any Kind
- 2 Environmental/ erosion control/ swppp
- 3 Permits, licenses and performance bonds
- 4 Bypass pumping / Operating pump stations
- 5 Access- (Owner shall provide adequate access )
- 6 Trench backfill, AC/Concrete cutting, and landscape restoration, private/public property restoration, grading, pavement & conc
- 7 Traffic Control ( Major Closures )

WE PROPOSE hereby to furnish material and labor -- complete in accordance with above specifications, for the sum of:

Payment terms:

30 Days of Invoice

Dollars: \$1,950.00

This proposal shall be incorporated into the service contract when  
Pro Pipe is listed as a subcontractor.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to meet NASCO standards. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner to carry general liability, workman's compensation fund and other necessary insurance. Maximum allowable interest charge on overdue invoices.

Pro Pipe Authorized Signature:

This proposal may be withdrawn by us if not accepted within 30 days.

**ACCEPTANCE OF PROPOSAL :** The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Requests for additional services beyond the above outlined scope will be submitted by written change order and payment thereof made accordingly.

Date	Customer Signature
Print name/Title	

PC BOX 1920, TUCSON, AZ 85652  
1/2 ROC # 195351 204131  
CTN # U3-6536947  
CERTIFIED BY CONCENTRATOR

Date: 7/16/15

Phone: 520-519-9130

Fax: 520-682-0144

Email: john.j4civil@gmail.com

To: B&F CONTRACTING

Attention: DAN FOLEY

**Contact Info:**

**Address:**

Job Name: NORTH RILLITO INTERCEPTOR MH STRUCTURES PHASE 1

**Standard Excludes:** Excavation, shoring, traffic control, night work, access, permits, sales tax, special insurance bonding, coatings, cores, drops, collars, engineering, final grade ring adjustment, hand rails, aprons, pipe work, gaskets, demolition, trash racks, flow management, plugs larger than 8", flow thru plugs, back fill, grading, compaction, inspections, concrete testing, and excessive standby. J4 Civil must have proper access for ready mix trucks and boom trucks. If there is not enough access the contractor will be responsible for providing a piece of equipment to either pour our ready mix or set the precast we provide. Prevailing wage is excluded unless noted below. Prime Contractor agrees to complete the AZ DOR5005 form declaring transaction tax liability and return as part of this proposal, or agree to pay us for the sales tax on our materials purchased.

OFFICE	JOB LOCATION
TUCSON	OFF OF RIVER BETWEEN CAMPBELL AND CAMINO SECO

ITEM	DESCRIPTION	QTY	UNIT PRICE	TOTAL
1	MH 8716-07 72" SS MANHOLE ON 18" PIPE PRECAST D=8.40' CAST IN PLACE BASE WITH CONSHIELD VACUUM TEST	1.00	\$7,800.00 \$175.00	\$7,800.00 \$175.00
2	MH 8716-06 72" SS MANHOLE ON 18" PIPE PRECAST D=8.80' CAST IN PLACE BASE WITH CONSHIELD VACUUM TEST	1.00	\$7,800.00 \$175.00	\$7,800.00 \$175.00
3	MH 8716-03 72" SS MANHOLE ON 18" PIPE PRECAST D=9.80' CAST IN PLACE BASE WITH CONSHIELD VACUUM TEST	1.00	\$7,800.00 \$175.00	\$7,800.00 \$175.00
	MANHOLES BASES INCLUDE - CONCRETE, REBAR, FORMING MATERIALS, LABOR, CONSHIELD, LABOR, MOBILIZATION, CREW TRUCK, AND EQUIPMENT.			
	VACUUM TESTS INCLUDE - LABOR, EQUIPMENT, AND CREW TRUCK TO VACUUM TEST EACH MANHOLE 1 TIME.			

THANK YOU FOR YOUR BUSINESS!!!!  
JOHN TAYLOR

SUBTOTAL	\$23,925.00
TAX	\$0.00
TOTAL	\$23,925.00 ✓

If you are in agreement with the terms and conditions please sign and return. J4 Civil Specialists must have a signed copy of this quote prior to mobilizing onsite to begin construction.

14 CIVIL SPECIALISTS  
PO BOX 1920, GLENDALE, AZ 85652  
AZ ROC#195351 204181  
FFN#01-053894-A  
CERTIFIED DESIGN CONTRACTOR

**Date:** 10/29/15  
**Phone:** 520-519-9130  
**Fax:** 520-682-0144  
**Email:** john.j4civil@gmail.com

To: B&F CONTRACTING

**Attention: DAN FOL**

### Contact Info:

**Address:**

ADDRESS:

500 טקסטים

**Standard Excludes:** Excavation, shoring, traffic control, night work, access, handling, contingencies, debris, collapse, engineering, fuel, and site adjustment.

bonding, coatings, cores, drops, collars, engineering, final grade ring adjustment, hand rails, aprons, pipe work, gaskets, demolition, trash racks, flow management, plugs larger than 8", flow thru plugs, back fill, grading, compaction, inspections, concrete testing, and excessive standby. J4 Civil must have proper access for ready mix trucks and boom trucks. If there is not enough access the contractor will be responsible for providing a piece of equipment to either pour our ready mix or set the precast we provide. Prevailing wage is excluded unless noted below. Prime Contractor agrees to complete the AZ DOR5005 form declaring transaction tax liability and return as part of this proposal, or agree to pay us for the sales tax on our materials purchased.

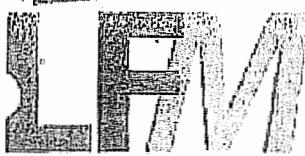
TUCSON OFF OF RIVER BETWEEN CAMPBELL AND CAMINO SECO

ITEM	DESCRIPTION	QTY	UNIT PRICE	TOTAL
1	MH 170B-36 120" SS MANHOLE ON 33" PIPE CAST IN PLACE BASE WITH CONSHIELD	1.00	\$23,239.00	\$23,239.00
	CAST IN PLACE BASE WITH NO CONSHIELD	1.00	\$16,885.00	\$16,885.00
2	MH 170B-34 120" SS MANHOLE ON 33" PIPE CAST IN PLACE BASE WITH CONSHIELD	1.00	\$23,239.00	\$23,239.00
	CAST IN PLACE BASE WITH NO CONSHIELD	1.00	\$16,885.00	\$16,885.00
3	MH 5112-06 120" SS MANHOLE ON 33" PIPE CAST IN PLACE BASE WITH CONSHIELD	1.00	\$23,239.00	\$23,239.00
	CAST IN PLACE BASE WITH NO CONSHIELD	1.00	\$16,885.00	\$16,885.00
4	MH 170B-34A B4" SS MANHOLE ON 33" PIPE CAST IN PLACE BASE WITH CONSHIELD	1.00	\$11,988.00	\$11,988.00
	CAST IN PLACE BASE WITH NO CONSHIELD	1.00	\$8,922.00	\$8,922.00
	MANHOLES BASES INCLUDE - CONCRETE, REBAR, FORMING MATERIALS, CONSHIELD, LABOR, MOBILIZATION, CREW TRUCK, AND EQUIPMENT.			

THANK YOU FOR YOUR BUSINESS!!

SUBTOTAL: \$141,282.00  
TAX: \$0.00

Subtotal: 42,692.00



FRP SPECIALISTS

L.F. MANUFACTURING, INC.

P.O. Box 578  
Giddings, Texas 78942  
Ph. (979) 542-8027  
Fax (979) 542-0911

Backup Pricing for Phase 1  
Fiberglass Structural MH Inserts  
at 8716-05, 8716-04 & 8716-02.  
Exhibit A.10

Invoice ID : INV#1000022

Sales Order ID : SOS7219

Invoice Date : 9/16/2015

Ship Date : 9/8/2015

Customer P# : 175523

SEP 21 2015

Page Number : 1 of 2

AR Terms: Net 30

Due Date	Amount
10/16/2015	\$12,569.00

3150.5120

Bill To:

B & F CONTRACTING  
11011 N. 23RD AVE.  
PHOENIX, AZ 85029

Ship To:

B & F CONTRACTING  
NORTH OF  
7945 E. TANQUE VERDE RD.  
TUCSON, AZ 85749

Order Date: 8/17/2015 11:32:22 AM  
Packing Slip: PS36216

FOB: Destination  
Currency Type: USD  
Ship Method: LFM  
Bill of Lading:

Line Nbr/ PO Line	Item ID / Item Name Cust Item ID	Unit of Measure	Shipped Qty	Unit Price	Sales Tax/ VAT	Extra Charges	Extended Price
1	/INVOICE ← Equipment Calculations		1.0000	\$1,300.0000		\$0.0000	\$1,300.00
Line Item Total:							
	INVOICED FOR MANHOLE CALCULATIONS FROM SELMAN & ASSOCIATES ON 8/10/15 INV#100				0.00%		\$1,300.00
2	LFM23971 / SPMH 54"DIA. X 11'-6" FRP Each MH# 8716-05 PIMA CNTY. NORTH RILLITO		1.0000	\$4,098.0000		\$0.0000	\$4,098.00
	Line Item Total:						\$4,098.00
3	PER DRAWING #:A-MH12693-C TAG:8716-05 SPMH#: 99328 LFM23972 / SPMH 54"DIA. X 9'-0" FRP Each MH# 8716-04 PIMA CNTY. NORTH RILLITO		1.0000	\$3,689.0000		\$0.0000	\$3,689.00
	Line Item Total:						\$3,689.00
4	PER DRAWING #:A-MH12694-C TAG:8716-04 SPMH#: 99329 LFM23973 / SPMH 54"DIA. X 8'-0" FRP Each MH# 8716-02 PIMA CNTY. NORTH RILLITO		1.0000	\$3,482.0000		\$0.0000	\$3,482.00
	Line Item Total:						\$3,482.00
	PER DRAWING #:A-MH12695-C TAG:8716-02 SPMH#: 99330						

✓96273



# L.F. MANUFACTURING, INC.

P.O. Box 578  
Giddings, Texas 78942  
Ph. (979) 542-8027  
Fax (979) 542-0911

## INVOICE

Invoice ID : INV66699  
Sales Order ID : SO37210  
Invoice Date : 9/16/2015  
Ship Date : 9/8/2015  
Customer PO ID : 175523

RECEIVED  
SEP 21 2015

Page Number : 2 of 2

AR Terms: Net 30

Due Date	Amount
10/16/2015	\$12,569.00

BY: \_\_\_\_\_

Bill To: C2144 Ship To:

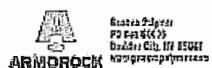
B & F CONTRACTING  
11011 N. 23RD AVE.  
PHOENIX, AZ 85029  
B & F CONTRACTING  
NORTH OF  
7945 E. TANQUE VERDE RD.  
TUCSON, AZ 85749

Order Date:	8/17/2015 11:32:22 AM	FOB:	Destination
Packing Slip:	PS36216	Currency Type:	USD
		Ship Method:	LFM
		Bill of Lading:	

Line Nbr/ PO Line	Item ID / Item Name Cust Item ID	Unit of Measure	Shipped Qty	Unit Price	Sales Tax/ VAT	Extra Charges	Extended Price
					Subtotal:		\$12,569.00
					Sales Tax:		\$0.00
					Shipping Charges:		\$0.00
					Total:		\$12,569.00

PLEASE REMIT  
PAYMENT TO:

L.F. MANUFACTURING, INC.  
P.O. Box 4458, Dept 109  
Houston, Texas 77210-4458



Backup Pricing for Phase 6 MH  
Shaft Material for Geneva Polymer  
Products, Exhibit A.10

14555 Spring Canyon Rd  
Boulder City, NV 89006

Phone: 801.225.2416  
Fax: 801.225.2467

Quote Date:

To: Dan Foley  
B&F Contracting

Phone:  
Fax:

Tucson AZ

Ref: 3NRI14 PHASE 6A  
Based on:  
TUCSON, AZ

Q U O T A T I O N

Notes:

1. Quote is subject to our standard terms, conditions, and shipping policies.
2. All applicable taxes are to be paid by purchaser.
3. Quote is good for 60 days from the issue date.



For: B&F Contracting  
Ref: 3NRI14 PHASE 6A  
TUCSON, AZ

Quote Date:

Structure ID: 1708-34

1 of 4

Qty	Part Number	Description	Price
1		PIMA COUNTY 30" STD	\$577.50
5	PR30X2FL	30 IN X 2 IN FLAT PRO-RING	\$320.25
1	120EL	120 IN POLYMER LID 30 IN	\$9,765.00
1	1203S	120 IN X 3 FT POLYMER MH SECTION	\$7,245.00
1	1206S	120 IN X 6 FT POLYMER MH SECTION	\$14,490.00
2		JOINT SEAL 120" MASTIC	\$63.00
1	LADDER	LADDER	\$1,100.00
Total			\$33,560.75

Structure ID: 1708-34A

2 of 4

Qty	Part Number	Description	Price
1		PIMA COUNTY 30" STD	\$577.50
3	PR30X2FL	30 IN X 2 IN FLAT PRO-RING	\$192.15
1	84EL	84 IN POLYMER LID 30 IN	\$3,785.00
1	846S	84 IN X 6 FT POLYMER MH SECTION	\$5,197.00
1	843S	84 IN X 3 FT POLYMER MH SECTION	\$2,688.00
8	JM1.25	1.25 IN X 14 FT JOINT MASTIC ROLL	\$100.80
1		LADDER	\$1,100.00
Total			\$13,640.45

Structure ID: 1708-36

3 of 4

Qty	Part Number	Description	Price
1		PIMA COUNTY 30" STD	\$577.50
3	PR30X2FL	30 IN X 2 IN FLAT PRO-RING	\$192.15
1	120EL	120 IN POLYMER LID 30 IN	\$9,765.00
1	1206S	120 IN X 6 FT POLYMER MH SECTION	\$14,490.00
1		JOINT SEAL 120" MASTIC	\$31.50
1		LADDER	\$1,100.00
Total			\$26,156.15

Structure ID: 5117-06

4 of 4

Qty	Part Number	Description	Price
1		PIMA COUNTY 30" STD	\$577.50
1	120EL	120 IN POLYMER LID 30 IN	\$9,765.00
1	1206S	120 IN X 6 FT POLYMER MH SECTION	\$14,490.00
1		JOINT SEAL 120" MASTIC	\$31.50
1		LADDER	\$1,100.00
Total			\$26,964.00

Removed from  
scope of work



For: B&F Contracting  
Ref: 3NR14 PHASE 6A  
TUCSON, AZ

Quote Date:

Sub-Total	\$99,321.35
Freight/Delivery	\$4,800.00
Total Cost	\$104,121.35
	5

Revised Subtotal = \$73,357.35
Freight = \$4800
Total Cost = \$78157.35

## Invoice

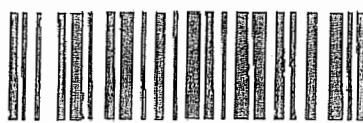
Pricing Backup for Phase 1 MH  
Replacements - Geneva Polymer Shaft  
Material, Pro-Rings, Freight & Mastic,  
Exhibit A.10

## Geneva Polymer Products

Main Office  
PO Box 60006  
Boulder City, NV 89006

AUG 24 2015

0000



Bill To:

B\$F CONTRACTING  
11011 N 23rd Av.  
Phoenix, AZ 85029

*OT 05/20*  
*201505060*

Ship To:

B\$F CONTRACTING  
11011 N 23rd Av.  
Phoenix, AZ 85029

Customer: B\$F CONTRACTING

Contact: B\$F CONTRACTING  
PO Number: TUCSON

*M 17539**3150-5060*

Seller	Payment Terms	FOB Point	Carrier	Ship Service	Requested Ship Date
admin	NET 30	Origin	Will Call		08/06/2015

Item #	Type	Number / Description	Unit Price	Qty Ordered	Total Price
1	Shipping	SHIPPING - SHIPPING	\$ 100.00	1 ea	\$ 100.00
2	Sale	PR30X.75-1.75A - 30" X 34" TO 1-34" ANGLE PRO-RING (40-31A-100)	\$ 46.00	4 ea	\$ 184.00
3	Sale	PR30X1.5FL - 30" X 1-12" FLAT PRO-RING (40-31F-150)	\$ 50.00	16 ea	\$ 800.00
4	Sale	PR30X1FL - 30" X 1" FLAT PRO-RING (40-31F-100)	\$ 40.00	6 ea	\$ 240.00

*V 95991*

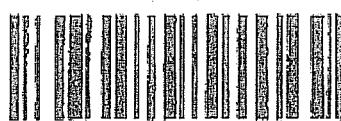
Subtotal:	\$ 1,324.00
Sales Tax:	\$ 119.82
Total:	\$ 1,443.82

Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Invoice

Pricing Backup for Phase 1 MH  
Replacements - Geneva Polymer Shaft  
Material, Pro-Rings, Freight & Mastic.  
Exhibit A.10

S560



Geneva Polymer Products

Main Office  
PO Box 60006  
Boulder City, NV 89006

Bill To:

B\$F CONTRACTING  
11011 N 23rd Av.  
Phoenix, AZ 85029

Customer: B\$F CONTRACTING

Ship To:

B\$F CONTRACTING  
7945 E TANQUE VERDE RD  
TUCSON, AZ 85749

Contact: B\$F CONTRACTING  
PO Number: 175390

3150.5060

Seller	Payment Terms	FOB Point	Carrier	Ship Service	Requested Ship Date
admin	NET 30	Origin	Will Call		08/18/2015

Item #	Type	Number / Description	Unit Price	Qty Ordered	Total Price
1	Sale	A-1700-Ring - 30" Opening SANITARY SEWER FRAME AND COVER	\$ 151.00	3 ea	\$ 453.00
2	Sale	A-1700-Cover - A1700 R & C 30" OPENING (MAG SPEC) SANITARY SEWER FRAME AND COVER	\$ 324.00	3 ea	\$ 972.00
3	Sale	7230L - 72 IN POLYMER LID 30" ACCESS MH 8716-08	\$ 2,470.00	1 ea	\$ 2,470.00
4	Sale	722S - 72 IN X 2 FT POLYMER MH SECTION MH 8716-08	\$ 1,630.00	1 ea	\$ 1,630.00
5	Sale	726S - 72 IN X 6 FT POLYMER MH SECTION MH 8716-08	\$ 3,970.00	1 ea	\$ 3,970.00
6	Sale	PR30X1FL - 30" X 1" FLAT PRO-RING (40-31F-100) MH 8716-08	\$ 30.50	8 ea	\$ 244.00
7	Sale	725S - 72 IN X 5 FT POLYMER MH SECTION MH 8716-08	\$ 3,350.00	1 ea	\$ 3,350.00
8	Sale	722S - 72 IN X 2 FT POLYMER MH SECTION MH 8716-08	\$ 1,630.00	1 ea	\$ 1,630.00
9	Sale	7230L - 72 IN POLYMER LID 30" ACCESS MH 8716-08	\$ 2,470.00	1 ea	\$ 2,470.00
10	Sale	PR30X1FL - 30" X 1" FLAT PRO-RING (40-31F-100) MH 8716-08	\$ 30.50	10 ea	\$ 306.00
11	Sale	7230L - 72 IN POLYMER LID 30" ACCESS MH 8716-07	\$ 2,470.00	1 ea	\$ 2,470.00
12	Sale	722S - 72 IN X 2 FT POLYMER MH SECTION MH 8716-07	\$ 1,630.00	1 ea	\$ 1,630.00
13	Sale	724S - 72 IN X 4 FT POLYMER MH SECTION MH 8716-07	\$ 2,690.00	1 ea	\$ 2,690.00
14	Sale	MASJT1.25 - 1.25 IN X 14 FT JOINT MASTIC MASTIC	\$ 12.00	18 ea	\$ 216.00

V95186

## Invoice

08/13/2015

## Geneva Polymer Products

Main Office  
PO Box 60006  
Boulder City, NV 89006

\$560



Item #	Type	Number / Description	Unit Price	Qty Ordered	Total Price
15	Sale	PR30X1FL - 30" X 1" FLAT PRO-RING (40-31F-100) MH 8716-07	\$ 30.50	2 ea	\$ 61.00
16	Shipping	SHIPPING - SHIPPING SHIPPING	\$ 1,200.00	1 ea	\$ 1,200.00

PO = \$22,399.00 ↔

Subtotal:	\$ 25,761.00
Sales Tax:	\$ 1,989.44
Total:	\$ 27,750.44

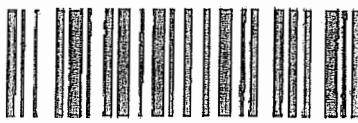
Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Invoice

Pricing Backup for Phase 1 MH  
Replacements - Geneva Polymer Shaft  
Material, Pro-Rings, Freight & Mastic.  
Exhibit A.10

GENEVA POLYMER PRODUCTS, LLC  
PO Box 60006  
Boulder City, NV 89006

SEP 21 2015



Bill To:

B&F CONTRACTING  
11011 N 23rd Av.  
Phoenix, AZ 85029

Ship To:

B&F CONTRACTING  
7945 E TANQUE VERDE RD  
TUCSON, AZ 85749

Customer: B&F CONTRACTING

Contact: B&F CONTRACTING  
PO Number: NBL PROJECT M 175390

3150, 5060

Seller	Payment Terms	FOB Point	Carrier	Ship Service	Requested Ship Date
admin	NET 30	Origin	Will Call		08/25/2015

Item #	Type	Number / Description	Unit Price	Qty Ordered	Total Price
1	Shipping	SHIPPING - SHIPPING SHIPPING	\$ 1,200.00	1 ea	\$ 1,200.00
2	Sale	722S - 72 IN X 2 FT POLYMER MH SECTION	\$ 0.00	3 ea	\$ 0.00
3	Sale	7230L - 72 IN POLYMER LID 30" ACCESS Ref 10	\$ 0.00	3 ea	\$ 0.00
4	Sale	723S - 72 IN X 3 FT POLYMER MH SECTION EXTRA SECTIONS	\$ 1,854.00	1 ea	\$ 1,854.00
5	Sale	724S - 72 IN X 4 FT POLYMER MH SECTION EXTRA SECTIONS	\$ 2,370.00	1 ea	\$ 2,370.00
6	Sale	A-1700-Ring - 30" Opening	\$ 0.00	2 ea	\$ 0.00
7	Sale	A-1700-Cover - A1700 R & C 30" OPENING (MAG SPEC)	\$ 0.00	2 ea	\$ 0.00

Subtotal:	\$ 5,424.00
Sales Tax:	\$ 342.14
Total:	\$ 5,766.14

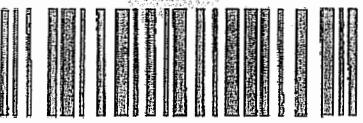
V 96252

Approval: \_\_\_\_\_ Date: \_\_\_\_\_

# Invoice

Backup Pricing for Phase 1 MH  
Replacements for Geneva Polymer.  
Composite Ladder System. Exhibit  
A.10

GENEVA POLYMER PRODUCTS, LLC  
PO Box 60006  
Boulder City, NV 89006



Bill To:

B&F CONTRACTING  
11011 N 23rd Av.  
Phoenix, AZ 85029

Ship To:

B&F CONTRACTING  
1904 W PRINCE ROAD  
TUCSON, AZ 85705

Customer: B&F CONTRACTING

Contact: B&F CONTRACTING  
PO Number: 175390

3150.5060

Seller	Payment Terms	FOB Point	Carrier	Ship Service	Requested Ship Date
admin	NET 30	Origin	Will Call		09/17/2015

Item #	Type	Number / Description	Unit Price	Qty Ordered	Total Price
1	Sale	MHSTEP - MANHOLE STEP NRI PROJECT STEPS	\$ 7.55	20 ea	\$ 151.00
2	Sale	LADDER4 - 4 STEP LADDER	\$ 300.00	1 ea	\$ 300.00
3	Sale	LADDER7 - 7 STEP LADDER	\$ 400.00	2 ea	\$ 800.00

OK

Don't Pay

\$1100 / 3 MI-T's = \$366  
EA

Net 11

SV-09/15  
APPROVED  
Signed  
Date 09/17/15

Pay on 14/1100.00

Subtotal:	\$ 1,251.00
Sales Tax:	100.10 \$ 113.22
Total:	\$ 1,364.22

Approval:

Date:

September 17, 2015 3:31:55 PM PDT

\$ 1200.10

Page 1 of 1

# NRI Rehab - 3100 N Lodge Rd Re-Alignment - BID ITEM 4.1

# B&F CONTRACTING, INC.

## EXHIBIT A.10

PROJECT: Construction Manager at Risk (CMAR) Services for North Rillito Interceptor Rehabilitation Project No. 3NRI14  
 Pima County Regional Wastewater Reclamation Department  
 Date: 2/17/2016  
 Revision: Rev. 1

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-989744 A General Engineering  
 ROC-111282 B-04 General Engineering



ITEM	Description	Sub/Self Perform	QTY	UNIT	Unit Price	Total Price
	<i>General Requirements</i>					
1.0	Construction Water	OcT	100	MGAL	\$ 7.00	\$ 700.00
2.0	PDEQ Dust Control Permit	B&F	1	EA	\$ 200.00	\$ 200.00
3.0	Dust Control	B&F	1	LS	\$ 5,043.20	\$ 5,043.20
					Subtotal	\$ 5,043.20
	<i>Flow Management Plan</i>					
4.0	O'Brien Property Flow Management	B&F	14	Days	\$ 10,992.00	\$ 153,888.00
					Subtotal	\$ 153,888.00
	<i>Pavement Restoration</i>					
5.0	Asphalt Restoration for Discharge Pipe Driveways & Road Crossings	B&F	467	SY@E"depth	\$ 57.85	\$ 27,015.95
					Subtotal	\$ 27,015.95
	<i>8" SS Re-alignment</i>					
6.0	Install New 8-inch SDR 35 Sanitary Sewer pipe	B&F	1	LS	\$ 6,891.96	\$ 6,891.96
7.0	Install New 48-inch diameter manhole at station 1+26.85	B&F	1	LS	\$ 15,924.28	\$ 15,924.28
					Subtotal	\$ 22,816.24
	<i>27" SS Re-alignment</i>					
8.0	New 27" Sewer Pipe (Flowtite) @ no cost, Freight costs only	Flowtite	1	LS	\$ 3,600.00	\$ 3,600.00
9.0	Install new 27-inch Flowtite pipe	B&F	1	LS	\$ 25,662.33	\$ 25,662.33
10.0	Install new 84-inch diameter manholes at stations D+00 & 1+05.69	B&F	2	EA	\$ 39,060.34	\$ 78,120.67
					Subtotal	\$ 107,263.00
	<i>Abandon MH 1700-10 and existing 27" &amp; 8" piping</i>					
11.0	Abandon MH 1700-10 & Slurry Grout In Place. Remove Cone or Barrel Section	B&F	1	LS	\$ 9,133.32	\$ 9,133.32
12.0	Monument for abandoned manhole	B&F	1	LS	\$ 300.00	\$ 300.00
					Subtotal	\$ 9,433.32
	<i>On-site Landscape Restoration &amp; Temporary Access Items</i>					
13.0	B&F labor and equipment to demo and replace landscape items	B&F	1	LS	\$ 17,375.60	\$ 17,375.60
14.0	Gravel for Temporary Access Path (1/2" to 3/4")	Spec	47	Tons	\$ 26.95	\$ 1,266.65
15.0	Gravel Replacement for O'Brien Driveway due to Sewer Work	Spec	15	Tons	\$ 26.95	\$ 404.25
16.0	Misc. Fencing Removal/Replacement, Restoration Items	B&F	1	LS	\$ 2,200.00	\$ 2,200.00
17.0	Temporary Road for residents West of the intersection	B&F	1	LS	\$ 5,000.00	\$ 5,000.00
18.0	Railing Repair	TBD	1	LS	\$ 500.00	\$ 500.00
19.0	Replace Section of Removed CMU Wall	TBD	450	SF	\$ 15.00	\$ 7,200.00
20.0	Allowance for street sign replacement	TBD	1	LS	\$ 200.00	\$ 200.00
21.0	Allowance for stucco and paint matching on existing wall	TBD	1	LS	\$ 2,000.00	\$ 2,000.00
22.0	Allowance for gate repair and electrical (3171 N Lodge Rd)	TBD	1	LS	\$ 5,000.00	\$ 5,000.00
23.0	Replace shotcrete drainage channel	J4	1680	SF	\$ 5.25	\$ 8,820.00
24.0	Replace type 2 vertical curb	J4	125	SF	\$ 13.95	\$ 1,731.75
25.0	Replace 1x2 header curb	J4	75	SF	\$ 12.95	\$ 971.25
26.0	Re-lay Pavers on neighbors driveway (3171 N Lodge Rd)	J4	864	SF	\$ 6.45	\$ 5,572.80
27.0	Replace 6" concrete driveway	J4	2280	SF	\$ 5.60	\$ 12,768.00
					Subtotal	\$ 71,022.30
	<i>Engineering, Survey, Layout &amp; SWPPP</i>					
28.0	Engineering and Design	Brown & Caldwell	1	LS	\$ 20,148.00	\$ 20,148.00
29.0	Psomas layout and as-built actual construction	Psomas	1	LS	\$ 4,345.00	\$ 4,345.00
30.0	SWPPP	Argus	1	LS	\$ 4,200.00	\$ 4,200.00
					Subtotal	\$ 28,693.00
					SUBTOTAL #1 - DIRECT COST WORK ITEMS	\$ 426,075.01

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14  
 3100 N Lodge Rd Re-Alignment - BID ITEM 4.1



Dust Control

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT  
 CONSTRUCTION MANAGER AT RISK SERVICES

EXHIBIT A.10

B&F CONTRACTING, INC.  
 1004 W. Prince Rd.  
 Tucson, AZ 85705  
 Office: (620) 207-0220 / Fax: (623) 592-3761

Date: 2/17/2016  
 GMP 3

Item	Description								
3	Dust Control								
<u>LABOR</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>		<u>Rate</u>	<u>Labor Burden</u>	<u>Total</u>
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$	23.00	\$ 7.36	\$ 30.36
<u>EQUIPMENT</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>				
Water Truck - 2500 Gallon	1	8	HR	\$ 32.88	\$ 261.44				

Crew, & Equipment Daily Rate: \$ 504.32

Cost or work Breakdown for Line Item Based on above units and below durations

	Unit	Qty	Rate	Total
Dust Control	Day	10	\$ 504.32	\$ 5,043.20
LINE ITEM #	3		<u>TOTAL COST</u>	<u>\$5,043.20</u>

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

3100 N Lodge Rd Re-Alignment - BID ITEM 4.1

8" SDR35 Pipe Install

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT

CONSTRUCTION MANAGER AT RISK SERVICES

EXHIBIT A.10



Date: 2/17/2016  
GMP 3

B&F CONTRACTING, INC.

1904 W. Prince Rd.

Tucson, AZ 85705

Office: (520) 207-8228 / Fax: (623) 562-3761

Item	Description				
6	8" SDR35 Pipe Install				

LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foreman	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Operator	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	\$ 8.00	\$ 33.00
Laborer	1	8	HR	\$ 28.04	\$ 224.32	\$ 22.00	\$ 7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 33.08	\$ 264.64	\$ 23.00	\$ 7.36	\$ 30.36

EQUIPMENT	QTY	Hours	Unit	Price	TOTAL
Crow Trucks	1	8	HR	\$ 27.40	\$ 219.20
CAT 420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28
36" compaction wheel	1	8	HR	\$ 6.34	\$ 50.72
Wacker	1	8	HR	\$ 5.99	\$ 47.92
10 Wheeler	1	8	HR	\$ 79.56	\$ 636.40

Crew, & Equipment Daily Rate: \$ 2,358.64

Cost or Work Breakdown for Line Item Based on above units and below durations

Unit	Qty	Rate	Total
8" SDR35 Pipe Install	Days	1.5	\$ 3,637.96

Materials / Vendors / Suppliers

Pipe air and mandrel testing	EA	1	\$ 500.00	\$ 500.00
8" SDR 35	LF	130	\$ 4.00	\$ 520.00
Sand Bedding 28 CY x 1.5	Ton	42	\$ 11.00	\$ 462.00
Spec ABC 122 CY x 1.5	Ton	122	\$ 11.00	\$ 1,342.00
Shoring 3'x10' trench box	Day	2	\$ 100.00	\$ 200.00
4 Trench plates @ 10 per day	Day	2	\$ 40.00	\$ 80.00
Shoring delivery	EA	2	\$ 125.00	\$ 250.00

LINE ITEM #	6	TOTAL COST	\$	6,891.96
		EA		1.00
		UNIT COST	\$	6,891.96

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

3100 N Lodge Rd Re-Alignment - BID ITEM 4.1

New 48" Manhole at STA 1+26.

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT  
CONSTRUCTION MANAGER AT RISK SERVICES

EXHIBIT A.1D



Date: 2/17/2016  
GMP 3

B&F CONTRACTING, INC.  
1904 W. Prince Rd.  
Tucson, AZ 85705  
Office: (520) 207-8228 / Fax: (520) 582-3781

Item	Description							
7	New 48" Manhole at STA 1+26.							
LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foreman	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Operator	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	\$ 8.00	\$ 33.00
Laborer	1	8	HR	\$ 29.04	\$ 232.32	\$ 22.00	\$ 7.04	\$ 25.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 25.00	\$ 7.36	\$ 30.36
EQUIPMENT	QTY	Hours	Unit	Price	TOTAL			
Crew Trucks	1	8	HR	\$ 27.40	\$ 219.20			
CAT 420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28			
36" compaction wheel	1	8	HR	\$ 6.34	\$ 50.72			
Wacker	1	8	HR	\$ 5.99	\$ 47.92			
10 Wheeler	1	8	HR	\$ 79.55	\$ 636.40			
Crew, & Equipment Daily Rate: \$					<u>2,358.64</u>			
Cost or work breakdown for Line Item Based on above units and below durations								
	Unit	Qty		Rate	Total			
New 48" Manhole at STA 1+26.	Days	2	\$	2,358.64	\$ 4,717.28			
Materials / Vendors / Suppliers								
J4 48" diameter cast in place concrete base	LS	1	\$	1,168.00	\$ 1,168.00			
Geneva precast barrels, lid, ring and cover	LS	1	\$	6,004.00	\$ 6,004.00			
Geneva freight costs	Load	1	\$	1,200.00	\$ 1,200.00			
Vacuum testing	EA	1	\$	225.00	\$ 225.00			
ASTV. C023 Strip water stop	EA	2	\$	20.00	\$ 40.00			
Sand Bedding 2CY x 1.5	Ton	3	\$	11.00	\$ 33.00			
Spec ABC 41 CY x 1.5	Ton	62	\$	11.00	\$ 682.00			
Shoring 6'x0x8' manhole box	Day	5	\$	101.00	\$ 505.00			
Shoring delivery	EA	2	\$	125.00	\$ 250.00			
Manhole stops with Install	EA	9	\$	100.00	\$ 900.00			
Roadway concrete collar	CY	2	\$	100.00	\$ 200.00			
LINE ITEM #	7			TOTAL COST	\$ 15,924.28			
				EA	1.00			
				UNIT COST	\$ 15,924.28			

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

3100 N Lodge Rd Re-Alignment - BID ITEM 4.1

27" Flowtite Fiberglass Pipe Installation

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT

CONSTRUCTION MANAGER AT RISK SERVICES

B&F CONTRACTING, INC.

1904 W. Prince Rd.

Tucson, AZ 85705

Office: (623) 207-8220 / Fax: (623) 602-3761

EXHIBIT A.10



Date: 2/17/2016

GMP 3

Item Description

8 27" Flowtite Fiberglass Pipe Installation

LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foremen	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Operator	2	8	HR	\$ 33.00	\$ 528.00	\$ 25.00	\$ 9.00	\$ 33.00
Laborer	2	8	HR	\$ 29.04	\$ 464.64	\$ 22.00	\$ 7.04	\$ 29.04
Truck Driver	2	8	HR	\$ 30.36	\$ 485.76	\$ 23.00	\$ 7.36	\$ 30.36
<b>EQUIPMENT</b>	<b>QTY</b>	<b>Hours</b>	<b>Unit</b>	<b>Price</b>	<b>TOTAL</b>			
Crow Trucks	2	8	HR	\$ 27.40	\$ 438.40			
CAT 420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28			
70,000 LB excavator	1	8	HR	\$ 145.42	\$ 1,163.36			
36" compaction wheel	1	8	HR	\$ 6.34	\$ 50.72			
Wacker	1	8	HR	\$ 5.95	\$ 47.92			
Plate Compactor	1	8	HR	\$ 4.01	\$ 32.08			
10 Wheeler	2	8	HR	\$ 79.55	\$ 1,272.80			
Rigging & Straps	1	8	HR	\$ 3.20	\$ 25.60			

Crew, & Equipment Daily Rate: \$ 5,174.48

Cost or work Breakdown for Line Item Based on above units and below durations

Unit	Qty	Rate	Total
27" Flowtite Fiberglass Pipe Installation	Days	3.5	\$ 5,174.48 \$ 18,110.68
<b>Materials / Vendors / Suppliers</b>			
Pipe air and mandrel testing	LS	1 \$ 750.00	\$ 750.00
Sand Padding 03 CY x 1.5	Ton	95 \$ 11.00	\$ 1,045.00
Spec ABC 200 CY x 1.5	Ton	300 \$ 11.00	\$ 3,300.00
Shoring 4'x16' trench box with 2 end panels	Week	1.5 \$ 512.00	\$ 768.00
Strapping Pin Set of 4	Week	1.5 \$ 16.00	\$ 24.00
Shackle, Ladder Hook, Bridle	Week	1.5 \$ 90.20	\$ 135.45
Trench Bridge 10'	Week	1.5 \$ 141.00	\$ 211.50
Pipe Spreader	Week	1.5 \$ 98.00	\$ 147.00
Crane Service Charge	EA	1 \$ 100.00	\$ 100.00
Shoring delivery	EA	4 \$ 150.00	\$ 600.00
CCTV Post Video	LF	105 \$ 4.50	\$ 472.50
LINE ITEM #		TOTAL COST	\$ 26,662.33
		EA	1.00
		UNIT COST	\$ 26,662.33

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

3100 N Lodge Rd Re-Alignment - BID ITEM 4.1

Install New 84-inch Manholes at STA 0+00 & 1+05.69

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT

CONSTRUCTION MANAGER AT RISK SERVICES

B&F CONTRACTING, INC.

1904 W. Prince Rd.

Tucson, AZ 85705

Office: (520) 207-8228 / Fax: (520) 592-3761

EXHIBIT A.10



Date: 2/17/2016

GMP 3

Item	Description							
10	Install New 84-inch Manholes at STA 0+00 & 1+05.69							
LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foreman	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Operator	2	8	HR	\$ 33.00	\$ 528.00	\$ 25.00	\$ 8.00	\$ 33.00
Laborer	2	8	HR	\$ 20.04	\$ 404.64	\$ 22.00	\$ 7.04	\$ 20.04
Truck Driver	2	8	HR	\$ 30.36	\$ 405.76	\$ 23.00	\$ 7.36	\$ 30.36
EQUIPMENT	QTY	Hours	Unit	Price	TOTAL			
Crew Trucks	2	8	HR	\$ 27.40	\$ 438.40			
CAT 420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28			
70,000 LB excavator	1	8	HR	\$ 145.42	\$ 1,163.36			
35" compaction wheel	1	8	HR	\$ 6.34	\$ 50.72			
Wacker	1	8	HR	\$ 5.89	\$ 47.92			
Plate Compactor	1	8	HR	\$ 4.01	\$ 32.08			
10 Wheeler	2	8	HR	\$ 79.05	\$ 1,272.80			
Crew, & Equipment Daily Rate: \$					<u>5,148.88</u>			
Cost or work Breakdown for Line Item Based on above units and below durations								
	Unit	Qty		Rate	Total			
Install New 84-inch Manholes at STA C+00 & 1+05.69	Days	4	\$	5,148.88	\$	20,595.52		
Materials / Vendors / Suppliers								
J4 84" diameter CIP base (C+00)	LS	1	\$	11,388.00	\$	11,388.00		
precast barrels, lid, ring and cover (C+00)	LS	1	\$	10,431.00	\$	10,431.00		
J4 84" diameter CIP base (1+05.69)	LS	1	\$	11,388.00	\$	11,388.00		
B4" barrels, lid, ring and cover (1+05.69)	LS	1	\$	10,419.00	\$	10,419.00		
Freight for MH Material	Lead	2	\$	1,400.00	\$	2,800.00		
Vacuum testing	EA	2	\$	250.00	\$	500.00		
ASTM C923 Slrip water stop	EA	5	\$	20.00	\$	100.00		
Sand Bedding 12 CY x 1.5	Ton	18	\$	13.00	\$	234.00		
Spec ABC 142 CY x 1.5	Ton	213	\$	13.00	\$	2,769.00		
0+00 Shoring 10'x16' trench box & 10 end panels	Day	10	\$	203.00	\$	2,030.00		
1+05.69 shoring 10'x16' trench box & 10 end panels	Day	10	\$	203.00	\$	2,030.00		
Stracking Pln Set of 4	Week	1.5	\$	16.80	\$	25.20		
Shackles, Ladder Hook, Bidle	Week	1.5	\$	90.30	\$	135.45		
Trench Bridge 10'	Week	1.5	\$	141.00	\$	211.50		
Pipe Spreader	Week	1.5	\$	96.00	\$	144.00		
Crane Service Charge	EA	2	\$	100.00	\$	200.00		
Delivery & Return	EA	4	\$	150.00	\$	600.00		
Manhole steps with install	EA	18	\$	100.00	\$	1,800.00		
Roadway concrete collar	CY	3	\$	100.00	\$	300.00		
LINE ITEM #		10		TOTAL COST	\$	78,100.67		
				EA		2.00		
				UNIT COST	\$	39,050.34		

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - BNRI14

3100 N Lodge Rd Re-Alignment - BID ITEM 4.1

Demo & Abandon MH 1700-10 and Existing 27" and 8" pipe

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT

CONSTRUCTION MANAGER AT RISK SERVICES

B&F CONTRACTING, INC.

1604 W. Prince Rd.

Tucson, AZ 85705

Office: (520) 207-8228 / Fax: (623) 582-3761

EXHIBIT A.10



Date: 2/17/2016

GMP 3

Item	Description							
11	Demo & Abandon MH 1700-10 and Existing 27" and 8" pipe							
LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foremen	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Operator	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	\$ 8.00	\$ 33.00
Labourer	1	8	HR	\$ 20.04	\$ 232.32	\$ 22.00	\$ 7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 28.00	\$ 7.36	\$ 30.36
EQUIPMENT	QTY	Hours	Unit	Price	TOTAL			
Crew Trucks	1	8	HR	\$ 27.40	\$ 219.20			
CAT 420E Backhoe	1	8	HR	\$ 40.51	\$ 324.08			
36" compaction wheel	1	8	HR	\$ 6.24	\$ 50.72			
Demo saw	1	8	HR	\$ 3.65	\$ 31.00			
10 Wheeler	1	8	HR	\$ 70.55	\$ 564.40			
Crew, & Equipment Daily Rate: \$					<u>2,342.32</u>			
Cost or work Breakdown for Line Item Based on above units and below durations								
Line Item	Unit	Qty		Rate	Total			
Demo & Abandon MH 1700-10 and Existing 27" and 8" pipe	Days	1	\$	2,342.32	\$ 2,342.32			
Materials / Vendors / Suppliers								
Asbestos Abatement supplies	LS	1	\$	1,000.00	\$ 1,000.00			
Asbestos Dump Fees and Coordination	LS	1	\$	2,000.00	\$ 2,000.00			
Regular Dump Fees	LS	1	\$	50.00	\$ 50.00			
Slurry Grout 4 sack minimum needed to pump	CY	27	\$	80.00	\$ 2,160.00			
Preferred 28M Concrete pump for 4 hours	LS	1	\$	781.00	\$ 781.00			
Saw blade	EA	1	\$	800.00	\$ 800.00			
LINE ITEM #	11			TOTAL COST	\$ 9,133.32			
				EA	1.00			
				UNIT COST	\$ 9,133.32			

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

3100 N Lodge Rd Re-Alignment - BID ITEM 4.1

Landscape demo and repair items

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT

CONSTRUCTION MANAGER AT RISK SERVICES

EXHIBIT A.10



Date: 2/17/2016

GMP 3

B&F CONTRACTING, INC.

1934 W. Prince Rd

Tucson, AZ 85705

Office: (520) 207-6226 / Fax: (623) 502-3761

Item	Description							
13	Landscape demo and repair items							
LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foremen	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Operator	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	\$ 8.00	\$ 33.00
Laborer	3	8	HR	\$ 29.04	\$ 872.08	\$ 22.00	\$ 7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 23.00	\$ 7.36	\$ 30.36
EQUIPMENT	QTY	Hours	Unit	Price	TOTAL			
Crew Truck	2	8	HR	\$ 27.40	\$ 438.40			
CAT 420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28			
36" compaction wheel	1	8	HR	\$ 6.34	\$ 50.72			
Demo saw	1	8	HR	\$ 3.95	\$ 31.60			
Street saw with trailer	1	8	HR	\$ 22.61	\$ 236.88			
Plate compactor	1	8	HR	\$ 4.01	\$ 32.08			
1C Wheeler	1	8	HR	\$ 79.55	\$ 636.40			
Crew, & Equipment Daily Rate: \$					<u>3,295.12</u>			
Cost or work Breakdown for Line Item Based on above units and below curations								
	Unit	Qty		Rate		Total		
Landscape demo and repair items	Days	5	\$	3,295.12	\$	16,475.60		
Materials / Vendors / Suppliers								
Regular Dump Fees	EA	4	\$	50.00	\$	200.00		
Fence and Gate parts allowance	LS	1	\$	600.00	\$	600.00		
Irrigation supplies	LS	1	\$	200.00	\$	200.00		
LINE ITEM #	13			TOTAL COST	\$	17,375.60		
				EA		1.00		
				UNIT COST	\$	17,375.60		

## EXHIBIT A.11

### LABOR, EQUIPMENT, MATERIAL COSTS

**Construction Manager at Risk for Pima County Regional  
Wastewater Reclamation Department - North Rillito Interceptor  
Rehabilitation Project No. 3NRI14**

See the following items behind this sheet:

## EXHIBIT A.11.a

### MH R/R, Fiberglass Inserts, Sprayroq Lining - SUMMARY OF COSTS

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

Project No.	3NRI14	Date:	2/17/2016
Project Title	North Rillito Interceptor Rehab Project	GMP	#03
Project Location	Woodland Rd, to Sabino Creek	B&F Job #:	3150

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Item	Description	Quantity	Unit	Unit Price	Extension
<b><u>PHASE 1 MANHOLE REPLACEMENTS - BID ITEM 3.1</u></b>					
1	MH 8716-07 Removal/Replacement	1	EA	\$ 56,076.36	\$ 56,076.36
2	MH 8716-08 Removal/Replacement	1	EA	\$ 45,299.12	\$ 45,299.12
3	MH 8716-03 Removal/Replacement	1	EA	\$ 48,609.16	\$ 48,609.16
					<b>Subtotal \$ 149,984.64</b>

Item	Description	Quantity	Unit	Unit Price	Extension
<b><u>PHASE 1 FIBERGLASS INSERTS - BID ITEM 3.2</u></b>					
1	MH 8716-05 Repair Using Fiberglass Insert	1	EA	\$ 14,708.52	\$ 14,708.52
2	MH 8716-04 Repair Using Fiberglass Insert	1	EA	\$ 14,791.50	\$ 14,791.50
3	MH 8716-02 Repair Using Fiberglass Insert	1	EA	\$ 18,373.34	\$ 18,373.34
					<b>Subtotal \$ 47,873.36</b>

#### PHASE 2 & 6 MH SPRAYROQ SPRAYWALL STRUCTURAL LINING SYSTEM IN LIEU OF R/R - BID ITEM 4.2

Item	Phase	MH I.D.	Depth	Diameter	MH Base SF	Chimney Section	SF Per VF	Total SF
1	2	1700-16	20	5	50	22	19.66	465.16
2	2	1700-15	16	5	50	22	19.66	386.53
3	2	6295-01	15	5	50	22	19.66	366.87
4	2	1811-01A	13	5' x 5' Box	50	22	20.00	332.00
5	2	1700-12	13	5	50	22	19.66	327.56
6	2	1700-13	13	5	50	22	19.66	327.56
7	2	1700-11	13	5	50	22	19.66	327.56
8	2	1700-09	13	5	50	22	19.66	327.56
9	2	1700-08	13	5	50	22	19.66	327.56
10	2	1700-07	8	5	50	22	19.66	229.27
11	6	1708-30	12	5	50	22	19.66	307.80
								Subtotal 3725.51
								10% Qty Varience 372.55
								Total SF for Sprayroq 4091.00
								\$/SF \$ 60.50

**Subtotal \$ 247,505.50**

#### PHASE 6 MANHOLE REPLACEMENTS, REPAIRS - BID ITEM 3.3

1	MH 1708-34A Removal/Replacement	1	LS	\$ 70,592.95	\$ 70,592.95
2	MH 1708-34 Removal/Replacement	1	LS	\$ 114,315.81	\$ 114,315.81
3	MH 1708-36 Removal/Replacement	1	LS	\$ 119,577.28	\$ 119,577.28
4	MH 6117-06 Excavation & Investigation Work	1	LS	\$ 3,078.62	\$ 3,078.62
5	Freight for Geneva Polymer MH Material	1	LS	\$ 4,800.00	\$ 4,800.00
					<b>Subtotal \$ 312,364.66</b>

**EXHIBIT A.11.b LABOR/MATERIAL/EQUIPMENT COST BREAKDOWN**  
**PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14**  
**MH REMOVALS, REPLACEMENTS & REPAIRS IN PHASE 1 - BID ITEM 3.1 & 3.2**  
**PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT**  
**CONSTRUCTION MANAGER AT RISK SERVICES**



B&F CONTRACTING, INC.  
11011 N. 23rd Avenue  
Phoenix, AZ 85329  
Office: (623) 582-1170 / Fax: (480) 943-4570

Date: 2/17/2016

Item 1 Description  
**MH 8716-07 Removal/Replacement of MH due to Deterioration & Hydraulics (72") (Tangue Ver**

<u>LABOR</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>	<u>Rate</u>	<u>Labor Burden</u>	<u>Total</u>
Foremen	1	8	HR	\$ 46.20	\$ 369.60	\$ 35.00	11.2	\$ 46.20
Operators	2	8	HR	\$ 33.00	\$ 526.00	\$ 25.00	8	\$ 33.00
Laborer	2	8	HR	\$ 29.04	\$ 484.64	\$ 22.00	7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.80	\$ 23.00	7.36	\$ 30.36

<u>EQUIPMENT</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>
Crew Trucks	2	8	DAY	\$ 26.85	\$ 452.24
185 CFM Compressor	1	8	HR	\$ 16.96	\$ 151.68
Pneumatic Chippers & Jackhammers	2	8	HR	\$ 1.12	\$ 17.92
Komatsu PC300 Excavator	1	8	HR	\$ 117.65	\$ 941.20
CAT420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28
10 Wheeler	2	8	HR	\$ 81.57	\$ 1,305.12
36" Compaction Wheel for Excavator	1	4	HR	\$ 6.31	\$ 25.24
Hydraulic Hammer for Trackhoe	1	8	HR	\$ 57.80	\$ 462.40
2500 Gallon Water Truck	1	8	HR	\$ 32.73	\$ 261.84
Rigging Gear	1	8	HR	\$ 6.50	\$ 52.00

Crew, & Equipment Daily Rate: \$ 5,612.04

Cost or work Breakdown for Line Item Based on above units and below durations

Unit	Qty	Rate	Total
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Excavate, Remove, Replace, Backfill & Compact Existing Deteriorated Manhole	Day	4	\$ 5,612.04	\$ 22,448.16
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MATERIAL / VENDORS / SUBS / SUPPLIERS

Pour New CIP Base for 72" Material	EA	1	\$ 7,800.00	\$ 7,800.00
CLSM Concrete Around Existing Pipe	CY	6	\$ 95.00	\$ 570.00
72" Manhole Material Barrel Sections using Geneva Polymer	LS	1	\$ 6,790.00	\$ 6,790.00
Freight for Geneva Polymer MH Shafts	EA	1	\$ 800.00	\$ 800.00
Cretex Pro-Rings & Frame/Covers	LS	1	\$ 1,191.00	\$ 1,191.00
Mastic / ConSeal	LS	1	\$ 72.00	\$ 72.00
Shoring Delivery & Return	EA	4	\$ 150.00	\$ 600.00
Shoring & Trench Boxes	Week	1	\$ 2,079.00	\$ 2,079.00
Concrete Median Vertical Curb Replacement	LG	1	\$ 2,160.00	\$ 2,160.00
Survey & As-Built Documentation	HR	6	\$ 155.00	\$ 930.00
Median Landscape Restoration	LS	1	\$ 1,500.00	\$ 1,500.00
Asphalt Replacement (25' x 25' x 8.5")	SY	69.44	\$ 105.00	\$ 7,291.20
ABC Backfill	TONS	30.00	\$ 13.00	\$ 390.00
Saw-Cut Asphaltic Concrete (25' x 25')	LS	1	\$ 250.00	\$ 250.00
Dumping Fees	EA	4	\$ 20.00	\$ 80.00
Vacuum Testing	EA	1	\$ 175.00	\$ 175.00
Reconnect Existing 12-inch Line DIP Material	EA	1	\$ 550.00	\$ 550.00
Composite Ladder System	EA	1	\$ 400.00	\$ 400.00

LINE ITEM #	1	TOTAL COST	<u>\$ 56,076.36</u>
		EA	<u>1.00</u>
		UNIT COST	<u>\$ 56,076.36</u>

## Item

## Description

2

## MH 8716-06 Repair Using Removal/Replacement Option (72") (Tanque Verde)

DR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foremen	1	0	HR	\$ 45.20	\$ 369.80	\$ 35.00	\$ 11.2	\$ 46.20
Operators	2	0	HR	\$ 33.00	\$ 528.00	\$ 25.00	\$ 0	\$ 33.00
勞工	2	0	HR	\$ 29.04	\$ 464.64	\$ 22.00	\$ 7.04	\$ 29.04
Truck Driver	1	0	HR	\$ 30.36	\$ 242.88	\$ 23.00	\$ 7.36	\$ 30.36

EQUIPMENT

DR	QTY	Hours	Unit	Price	TOTAL
Crew Trucks	2	6	DAY	\$ 28.89	\$ 162.24
185 CFM Compressor	1	0	HR	\$ 18.96	\$ 18.96
Pneumatic Chippers & Jackhammers	2	0	HR	\$ 1.12	\$ 17.92
Komatsu PC300 Excavator	1	8	HR	\$ 117.65	\$ 941.20
CAT420E Backhoe	1	0	HR	\$ 40.91	\$ 327.28
10 Wheeler	2	0	HR	\$ 81.57	\$ 1,631.40
2500 Gallon Water Truck	1	0	HR	\$ 32.73	\$ 261.84
Rigging Gear	1	0	HR	\$ 6.50	\$ 6.50
36" Compaction Wheel for Excavator	1	1	HR	\$ 6.31	\$ 6.31
Hydraulic Hammer for Backhoe	1	0	HR	\$ 57.80	\$ 462.40

Crew, &amp; Equipment Daily Rate: \$ 5,612.04

Cost or work Breakdown for Line Item Based on above units and below durations

Excavate, Remove, Replace, Backfill & Compact for Structural Composite MH	Unit	Qty	Rate	Total
	Day	3	\$ 5,612.04	\$ 16,836.12

MATERIAL / VENDORS / SUBS / SUPPLIERS

Pour New CIP Base for 72" Material	EA	1	\$ 7,800.00	\$ 7,800.00
CLSM Concrete Around Existing Pipe	CY	6	\$ 570.00	\$ 3,420.00
72" Manhole Material Barrel Sections using Geneva Polymer	LS	1	\$ 8,904.00	\$ 8,904.00
Freight for Geneva Polymer MH Shafts	EA	1	\$ 800.00	\$ 800.00
Cretox Pro-Rings & Frame/Covers	LS	1	\$ 1,191.00	\$ 1,191.00
Mastic / ConSeal	LS	1	\$ 72.00	\$ 72.00
Shoring Delivery & Return	EA	4	\$ 500.00	\$ 2,000.00
Shoring & Trench Boxes	Week	1	\$ 2,101.00	\$ 2,101.00
As-Built Documentation	HR	6	\$ 930.00	\$ 5,580.00
Concrete Replacements	LF	40	\$ 1,000.00	\$ 40,000.00
ABC Backfill	TONS	30.00	\$ 390.00	\$ 11,700.00
Saw-Cut Asphaltic Concrete (16' x 15')	LS	1	\$ 250.00	\$ 250.00
Asphalt Replacement (16' x 15' x 8.5")	SY	25	\$ 2,900.00	\$ 72,500.00
MH Composite Ladder System	EA	1	\$ 400.00	\$ 400.00
Dumping Fees	EA	4	\$ 80.00	\$ 320.00
Vacuum Testing	EA	1	\$ 175.00	\$ 175.00

LINE ITEM #	2	TOTAL COST	\$46,299.12
		EA	1,00
		UNIT COST	\$ 46,299.12

Item	Description							
<b>MH 8716-05 - Repair Using Structural Composite MH System</b>								
	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foremen	1	8	HR	\$ 46.20	\$ 369.60	\$ 35.00	\$ 11.20	\$ 46.20
Operators	2	8	HR	\$ 33.00	\$ 528.00	\$ 25.00	\$ 8.00	\$ 33.00
Laborer	2	8	HR	\$ 29.04	\$ 464.84	\$ 22.00	\$ 7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 23.00	\$ 7.36	\$ 30.36
<b>EQUIPMENT</b>							0.32	
Crew Trucks	2	8	DAY	\$ 28.89	\$ 462.24			
Compressor	1	8	HR	\$ 18.95	\$ 151.60			
Pneumatic Chippers & Jackhammers	1	8	HR	\$ 1.12	\$ 8.96			
John Deere 710G Backhoe	1	8	HR	\$ 71.34	\$ 570.72			
10 Wheeler	1	4	HR	\$ 81.57	\$ 326.28			
2500 Gallon Water Truck	1	4	HR	\$ 32.73	\$ 130.92			
Rigging Gear	1	8	HR	\$ 6.50	\$ 52.00			
Crew, & Equipment Daily Rate:						<u>\$ 3,307.92</u>		
Cost or Work Breakdown for Line Item: Based on above units and below durations								
	Unit	Qty		Rate	Total			
Excavate, Remove, Replace, Backfill & Compact for Structural Composite MH	Day	2	\$	3,307.92	\$	6,615.84		
<b>MATERIAL / VENDORS / SUBS / SUPPLIERS</b>								
Existing Base Prep with Mortar Ring	LS	1	\$	550.00	\$	550.00		
LFM FRP Structural Insert & Cone	VF	11.5	\$	356.34	\$	4,097.91		
Crelox HDPE Grade Rings (4", 2" & 1" Pro-Rings)	LS	1	\$	289.00	\$	289.00		
Flex Grout for Annular Space	CY	3	\$	145.00	\$	435.00		
Sikadur 31 Epoxy Coating - 2 Gallon Bucket	EA	2	\$	99.49	\$	198.98		
Shoring Delivery & Return	EA	4	\$	125.00	\$	500.00		
Asphalt Replacement (6' x 6')	SY	2.77	\$	105.00	\$	290.85		
Shoring & Trench Boxes	Day	3	\$	100.35	\$	300.99		
8 x 12 Steel Crossing Plate (2 ea. @ \$16.00/day)	Day	3	\$	33.60	\$	100.80		
ABC Backfill	Tons	10.00	\$	13.00	\$	130.00		
Saw-Cut Asphalt/Concrete	SF	64	\$	2.50	\$	160.00		
Dumping Fees	EA	3	\$	20.00	\$	60.00		
Vacuum Testing	EA	1	\$	175.00	\$	175.00		
Composite Steps	EA	1	\$	400.00	\$	400.00		
LFM Engineered Calcs	EA	1	\$	433.00	\$	433.00		
J Space Entry Equip (Tripod, Winch, Harness, Gas Test)	Day	1	\$	37.15	\$	37.15		
LINE ITEM #						<u>TOTAL COST</u>	<u>\$14,708.52</u>	
						EA	1.00	
						UNIT COST	\$ 14,708.52	

Item	Description								
	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total	
Foreman	1	5	HR	\$ 46.20	\$ 231.00	\$ 35.00	\$ 11.20	\$ 46.20	
Operators	2	8	HR	\$ 33.00	\$ 528.00	\$ 25.00	\$ 8.00	\$ 33.00	
Laborer	2	8	HR	\$ 29.04	\$ 464.96	\$ 22.00	\$ 7.04	\$ 29.04	
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 22.00	\$ 7.36	\$ 30.36	
<b>EQUIPMENT</b>									
Crew Trucks	2	8	DAY	\$ 28.88	\$ 462.24				
185 CFM Compressor	1	8	HR	\$ 18.98	\$ 161.58				
Pneumatic Chippers & Jackhammers	2	0	HR	\$ 1.12	\$ 17.92				
Komatsu PC300 Excavator	1	0	HR	\$ 117.68	\$ 941.20				
CAT420E Backhoe	1	0	HR	\$ 40.91	\$ 327.28				
10 Wheel	2	8	HR	\$ 81.57	\$ 1,305.12				
2500 Gallon Water Truck	1	0	HR	\$ 32.73	\$ 261.84				
Rigging Gear	1	8	HR	\$ 6.50	\$ 52.00				
36" Compaction Wheel for Excavator	1	4	HR	\$ 6.31	\$ 25.24				
Hydraulic Hammer for Trackhoe	1	8	HR	\$ 57.80	\$ 462.40				
Crew, & Equipment Daily Rate:					<u>\$ 5,612.04</u>				
Cost or work Breakdown for Line Item Based on above units and below durations									
Excavate, Remove, Replace, Backfill & Compact Existing	Unit	Qty		Rate	Total				
	Day	4	\$	\$ 5,612.04	\$ 22,448.16				
<b>MATERIAL / VENDORS / SUBS / SUPPLIERS</b>									
Pour New CIP Base for 72" Material	LS	1	\$	\$ 7,800.00	\$ 7,800.00				
CLSM Concrete Around Existing Pipe	CY	6	\$	\$ 95.00	\$ 570.00				
72" Manhole Material Barrel Sections using Geneva Polymer	LS	1	\$	\$ 10,440.00	\$ 10,440.00				
Freight for Geneva Polymer MH Shells	EA	1	\$	\$ 800.00	\$ 800.00				
CreteX Pro-Rings & Frame/Covers	LS	1	\$	\$ 1,191.00	\$ 1,191.00				
Mastic / ConSeal	LS	1	\$	\$ 72.00	\$ 72.00				
Shoring Delivery & Return	EA	4	\$	\$ 150.00	\$ 600.00				
Shoring & Trench Boxes	Week	1	\$	\$ 2,263.00	\$ 2,263.00				
As-Built Documentation	HR	6	\$	\$ 166.00	\$ 996.00				
ABC Backfill	TONS	30.00	\$	\$ 13.00	\$ 390.00				
Chain Link Fence Replacement	LS	1	\$	\$ 625.00	\$ 625.00				
MH Composite Ladder System	LS	1	\$	\$ 400.00	\$ 400.00				
Dumping Fees	EA	4	\$	\$ 20.00	\$ 80.00				
Vacuum Testing	EA	1	\$	\$ 175.00	\$ 175.00				
LINE ITEM #		5			<u><b>TOTAL COST</b></u> <u><b>\$48,784.16</b></u>				
	EA				1.00				
	UNIT COST		\$		<u><b>\$ 48,784.16</b></u>				

Item  
4Description  
MH 0716-04 - Repair Using Structural Composite MH System due to Deterioration

LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
ben	1	8	HR	\$ 45.20	\$ 369.60	\$ 35.00	11.2	\$ 46.20
Operators	2	8	HR	\$ 30.00	\$ 240.00	\$ 26.00	8	\$ 33.00
Laborer	2	8	HR	\$ 29.04	\$ 232.32	\$ 22.00	7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 23.00	7.36	\$ 30.36

EQUIPMENT	QTY	Hours	Unit	Price	TOTAL
Crew Trucks	2	8	DAY	\$ 26.89	\$ 462.24
Compressor	1	8	HR	\$ 18.96	\$ 151.68
Pneumatic Chippers & Jackhammers	1	8	HR	\$ 1.12	\$ 8.96
John Deer 710G Backhoe	1	8	HR	\$ 71.34	\$ 570.72
10 Wheeler	1	4	HR	\$ 81.57	\$ 326.28
2500 Gallon Water Truck	1	4	HR	\$ 32.73	\$ 130.92
Rigging Gear	1	8	HR	\$ 6.50	\$ 52.00

Crew, & Equipment Daily Rate: \$ 3,307.92

Cost or work Breakdown for Line Item Based on above units and below durations

Unit	Qty	Rate	Total
Excavate, Remove, Replace, Backfill & Compact for Structural Composite MH	Day	\$ 3,307.92	\$ 6,615.84

## MATERIAL / VENDORS / SUBS / SUPPLIERS

Existing Base Prep with Mortar Ring	LS	1	\$ 550.00	\$ 550.00
LFM FRP Structural Insert & Cone	VF	9	\$ 409.09	\$ 3,689.01
Cretek HDPE Grade Rings (4", 2" & 1" Pro-Rings)	LS	1	\$ 283.00	\$ 283.00
Flex Grout for Annular Space	CY	3	\$ 145.00	\$ 435.00
Sikadur 31 Epoxy Coating - 2 Gallon Bucket	EA	2	\$ 69.49	\$ 138.98
Shoring Delivery & Return	EA	2	\$ 125.00	\$ 250.00
Asphalt Replacement (8' x 10')	SY	8.88	\$ 105.00	\$ 932.40
Shoring & Trench Boxes	Day	4	\$ 100.33	\$ 401.32
8 x 12 Steel Crossing Plate (2 ea. @ \$16.80/day)	Day	3	\$ 53.60	\$ 100.80
ABC Backfill	Tons	10.00	\$ 13.00	\$ 130.00
Saw-Cut Asphalt/Concrete	SF	64	\$ 2.50	\$ 160.00
Dumping Fees	EA	3	\$ 20.00	\$ 60.00
Vacuum Testing	EA	1	\$ 175.00	\$ 175.00
Composite Steps	EA	1	\$ 400.00	\$ 400.00
LFM Engineered Cables	EA	1	\$ 433.00	\$ 433.00
J Space Entry Equip (Tripod, Winch, Harness, Gas Test)	Day	1	\$ 37.15	\$ 37.15
	LINE ITEM #	4	TOTAL COST	<u>\$14,791.50</u>
			EA	1.00
			UNIT COST	\$ 14,791.50

Item #	Description NH 8716-02 - Repair Using Structural Composite MH System due to Deterioration								
	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total	
<b>LABOR</b>									
Iron Operators	1	8	HR	\$ 46.20	\$ 369.60	\$ 35.00	\$ 11.20	\$ 46.20	
Laborer	2	5	HR	\$ 33.00	\$ 165.00	\$ 25.00	\$ 8.00	\$ 33.00	
Truck Driver	2	5	HR	\$ 29.04	\$ 145.20	\$ 22.00	\$ 7.04	\$ 29.04	
	1	8	HR	\$ 30.36	\$ 242.88	\$ 23.00	\$ 7.36	\$ 30.36	
<b>EQUIPMENT</b>									
Crew Trucks	2	0	DAY	\$ 25.89	\$ 51.78				
Compressor	1	8	HR	\$ 19.96	\$ 160.00				
Pneumatic Chippers & Jackhammers	1	0	HR	\$ 1.12	\$ 1.12				
John Deere 710G Backhoe	1	8	HR	\$ 71.34	\$ 570.72				
10 Wheeler	1	4	HR	\$ 61.57	\$ 246.28				
2500 Gallon Water Truck	1	4	HR	\$ 32.73	\$ 130.92				
Rigging Gear	1	8	HR	\$ 6.00	\$ 50.00				
Crew, & Equipment Daily Rate:						\$ 3,307.92			
Cost or work Breakdown for Line Item Based on above units and below durations									
Excavate, Remove, Replace, Backfill & Compact for Structural Composite MH		Unit	Qty	Rate	Total				
		Day	2	\$ 3,307.92	\$ 6,615.84				
<b>MATERIAL / VENDORS / SUBS / SUPPLIERS</b>									
Rehabilitate Existing Base with Coating		EA	1	\$ 4,731.56	\$ 4,731.56				
Existing Base Prep with Mortar Ring		LS	1	\$ 550.00	\$ 550.00				
LFM FRF Structural Insert & Cone		VF	8	\$ 485.25	\$ 3,880.00				
Cretex HOPE Grade Rings (4", 2", & 1" Pro-Rings)		LS	1	\$ 283.00	\$ 283.00				
Flex Grout for Annular Space		CY	3	\$ 145.00	\$ 435.00				
Sikadur 31 Epoxy Coating - 2 Gallon Bucket		EA	2	\$ 69.49	\$ 138.98				
Shoring Delivery & Return		EA	4	\$ 125.00	\$ 500.00				
Shoring & Trench Boxes		Day	3	\$ 100.33	\$ 300.99				
8 x 12 Steel Crossing Plate (2 ea. @ \$16.00/day)		Day	3	\$ 33.60	\$ 100.80				
ABC Backfill		Tons	10.00	\$ 13.00	\$ 130.00				
Composite Steps		EA	1.00	\$ 400.00	\$ 400.00				
Dumping Fees		EA	3	\$ 20.00	\$ 60.00				
Vacuum Testing		EA	1	\$ 175.00	\$ 175.00				
LFM Engineered Calcs		EA	1	\$ 433.00	\$ 433.00				
1 Space Entry Equip (Tripod, Winch, Harness, Gas Tool)		Day	1	\$ 37.15	\$ 37.15				
TOTAL COST						\$ 18,373.84			
LINE ITEM #						1.00			
UNIT COST						\$ 18,373.84			

**EXHIBIT A.11.c LABOR/MATERIAL/EQUIPMENT COST BREAKDOWN**  
**PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14**  
**MH REMOVALS, REPLACEMENTS & REPAIRS IN PHASE 6 - BID ITEM 3.3**  
**PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT**  
**CONSTRUCTION MANAGER AT RISK SERVICES**



B&F CONTRACTING, INC.  
11011 N. 23rd Avenue  
Phoenix, AZ 85029  
Office: (623) 602-1170 / Fax: (480) 840-4576

Date: 2/17/2016

Item 1 **Description**  
**MH 1708-34A Removal/Replacement of MH due to Deterioration & Hydraulics (84") (Sutton Lane)**

<b>LABOR</b>	<b>QTY</b>	<b>Hours</b>	<b>Unit</b>	<b>Price</b>	<b>TOTAL</b>	<b>Rate</b>	<b>Labor Burden</b>	<b>Total</b>
Foremen	1	8	HR	\$ 46.55	\$ 372.40	\$ 35.00	\$ 11.65	\$ 46.55
Operators	2	8	HR	\$ 33.25	\$ 532.00	\$ 25.00	\$ 8.25	\$ 33.25
Laborer	2	8	HR	\$ 29.26	\$ 468.16	\$ 22.00	\$ 7.26	\$ 29.26
Truck Driver	1	8	HR	\$ 30.59	\$ 244.72	\$ 23.00	\$ 7.59	\$ 30.59

<b>EQUIPMENT</b>	<b>QTY</b>	<b>Hours</b>	<b>Unit</b>	<b>Price</b>	<b>TOTAL</b>
Crew Trucks	1	8	DAY	\$ 26.89	\$ 231.12
185 CFM Compressor	1	8	HR	\$ 18.95	\$ 151.60
Pneumatic Chippers & Jackhammers	1	8	HR	\$ 1.12	\$ 8.96
CAT 349 Excavator	1	8	HR	\$ 192.88	\$ 1,543.12
CAT420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28
10 Wheeler	1	8	HR	\$ 81.57	\$ 652.56
36" Compaction Wheel for Excavator	1	4	HR	\$ 6.31	\$ 25.24
2500 Gallon Water Trucks	1	4	HR	\$ 32.73	\$ 130.92
<b>Crew, &amp; Equipment Daily Rate:</b>					<b>\$ 4,680.16</b>
<b>4 HRS/MAT Daily OT</b>					<b>\$ 1,247.40</b>
<b>Crew, &amp; Equipment Daily Rate With Overtime:</b>					<b>\$ 5,935.56</b>

Cost or work Breakdown for Line Item Based on above units and below durations

<b>Excavate, Remove, Replace, Backfill &amp; Compact Existing</b>	<b>Unit</b>	<b>Gty</b>	<b>Rate</b>	<b>Total</b>
	Day	5	\$ 5,935.56	\$ 29,677.80

**MATERIAL / VENDORS / SUBS / SUPPLIERS**

Pour New CIP Base for 64" Material	EA	1	\$ 8,922.00	\$ 8,922.00
CLSM Concrete Around Existing Pipe	CY	6	\$ 95.00	\$ 570.00
04" Manhole Material Barrel Sections using Geneva Polymer	LS	1	\$ 13,640.45	\$ 13,640.45
Shoring Delivery & Return	EA	6	\$ 150.00	\$ 900.00
Shoring & Trench Box Rental	Week	2	\$ 2,910.40	\$ 5,820.80
Survey & As-Built Documentation	HR	4	\$ 155.00	\$ 620.00
Asphalt Replacement - 25' x 35'	SY	97.22	\$ 50.00	\$ 4,861.00
Sawcut Existing Asphalt	LS	1	\$ 350.00	\$ 350.00
ABC Backfill	TONS	40.00	\$ 13.00	\$ 520.00
Dumping Fees	EA	5	\$ 20.00	\$ 100.00
Vacuum Testing	EA	1	\$ 175.00	\$ 175.00
Caterpillar 514 LCR Excavator Rental from Empire Equipment	Week	1	\$ 1,540.00	\$ 1,540.00
Hydraulic Breaker H115S Rental from Empire Equipment	Week	1	\$ 1,700.00	\$ 1,700.00
Delivery & Pickup for Rental Excavator from Empire Equipment	Trips	1	\$ 325.00	\$ 325.00
Sikadur 31 Epoxy Coating - 2 gallon buckets	EA	10	\$ 69.49	\$ 694.90
Concrete Monar Ring Around Base Shaft	CY	2	\$ 88.00	\$ 176.00

<b>LINE ITEM #</b>	<b>1</b>	<b>TOTAL COST</b>	<b>\$70,592.85</b>
		EA	1.00
		UNIT COST	\$ 70,592.85

Item 2 Description  
MH 1708-34 Removal/Replacement of MH due to Deterioration & Hydraulics (120") (Station Lane)

LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Men	1	8	HR \$	46.55 \$	372.40 \$	35.00	11.55 \$	46.55
Operators	2	8	HR \$	33.25 \$	532.00 \$	25.00	8.25 \$	33.25
Laborer	2	8	HR \$	29.25 \$	468.16 \$	22.00	7.25 \$	29.25
Truck Driver	1	8	HR \$	30.59 \$	244.72 \$	23.00	7.59 \$	30.59

**EQUIPMENT**

EQUIPMENT	QTY	Hours	Unit	Price	TOTAL
Crew Trucks	1	8	DAY \$	26.89 \$	214.12
185 CFM Compressor	1	8	HR \$	16.95 \$	135.60
Pneumatic Chippers & Jackhammers	1	8	HR \$	1.12 \$	8.96
CAT 349 Excavator	1	5	HR \$	192.89 \$	964.45
CAT420E Backhoe	1	8	HR \$	40.91 \$	327.28
10 Wheeler	1	8	HR \$	81.57 \$	652.56
36" Compaction Wheel for Excavator	1	4	HR \$	6.31 \$	25.24
2500 Gallon Water Truck	1	4	HR \$	32.73 \$	130.92

Crew, & Equipment Daily Rate: \$ 4,688.16

4 HRS/MTD Daily OT \$ 1,247.40

Crew, & Equipment Daily Rate With Overtime: \$ 5,935.56

Cost or work Breakdown for Line Item Based on above units and below durations

Excavate, Remove, Replace, Backfill & Compact Existing	Unit	Qty	Rate	Total
	Day	6	\$ 5,935.56	\$ 35,613.36

**MATERIAL / VENDORS / SUBS / SUPPLIERS**

Pour New CIP Ease for 120" Material	EA	1	\$ 16,885.00	\$ 16,885.00
CLSM Concrete Around Existing Pipe	CY	6	\$ 95.00	\$ 570.00
120" Manhole Material Barrel Sections using Genova Polymer	LS	1	\$ 33,580.75	\$ 33,580.75
Shoring Delivery & Return	EA	6	\$ 150.00	\$ 900.00
Shoring & Trench Boxes	Week	2	\$ 2,910.40	\$ 5,820.80
Survey & As-Buil Documentation	HR	4	\$ 155.00	\$ 620.00
Asphalt Replacement - 100' x 25'	SY	277	\$ 50.00	\$ 13,850.00
Scrap Existing Asphalt	LS	1	\$ 426.00	\$ 426.00
ABC Backfill	TONS	40.00	\$ 13.00	\$ 520.00
Dumping Fees	EA	5	\$ 20.00	\$ 100.00
Vacuum Testing	EA	1	\$ 176.00	\$ 176.00
Install 12" SS Stubout	EA	1	\$ 660.00	\$ 660.00
Reconnect Existing HCS	EA	1	\$ 280.00	\$ 280.00
Concrete Mortar Ring Around Base Shaft	CY	2	\$ 88.00	\$ 176.00
Caterpillar 314 LCR Excavator Rental from Empire Equipment	Week	1	\$ 1,540.00	\$ 1,540.00
Hydraulic Breaker H115S Rental from Empire Equipment	Week	1	\$ 1,700.00	\$ 1,700.00
Delivery & Pickup for Rental Excavator from Empire Equipment	Trips	1	\$ 325.00	\$ 325.00
Sikader 31 Epoxy Coating - 2 gallon buckets	EA	10	\$ 69.49	\$ 694.90

LINE ITEM #	2	TOTAL COST	\$114,315.81
		EA	1.00
		UNIT COST	\$ 114,315.81

Item **3** Description  
**MH 170B-36 Removal/Replacement of MH due to Deterioration & Hydraulics (120") (River & Suttor**

**LABOR**

	<b>QTY</b>	<b>Hours</b>	<b>Unit</b>	<b>Price</b>	<b>TOTAL</b>	<b>Rate</b>	<b>Labor Burden</b>	<b>Total</b>
Non Operators	1	8	HR	\$ 46.55	\$ 372.40	\$ 35.00	\$ 11.55	\$ 46.55
Laborer	2	8	HR	\$ 33.25	\$ 662.00	\$ 25.00	\$ 8.25	\$ 33.25
Truck Driver	2	6	HR	\$ 29.26	\$ 468.16	\$ 22.00	\$ 7.26	\$ 29.26
	1	8	HR	\$ 30.59	\$ 244.72	\$ 23.00	\$ 7.59	\$ 30.59

**EQUIPMENT**

	<b>QTY</b>	<b>Hours</b>	<b>Unit</b>	<b>Price</b>	<b>TOTAL</b>
Crew Trucks	1	8	DAY	\$ 28.09	\$ 231.12
185 CPM Compressor	1	8	HR	\$ 18.96	\$ 151.68
Pneumatic Chippers & Jackhammers	1	0	HR	\$ 1.12	\$ 0.06
CAT 349 Excavator	1	8	HR	\$ 192.89	\$ 1,543.12
CAT420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28
10 Wheeler	1	0	HR	\$ 61.57	\$ 652.66
36" Compaction Wheel for Excavator	1	4	HR	\$ 6.31	\$ 26.24
2500 Gallon Water Truck	1	4	HR	\$ 32.73	\$ 130.92

Crew, & Equipment Daily Rate: \$ 4,885.16

4 HRS/MTD Daily OT \$ 1,247.40

Crew, & Equipment Daily Rate With Overtime: \$ 5,935.56

Cost of work Breakdown for Line Item Based on above units and below durations

	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Total</b>
Excavate, Remove, Replace, Backfill & Compact Existing	Day	8	\$ 5,935.56	\$ 47,484.48

**MATERIAL / VENDORS / SUBS / SUPPLIERS**

Pour New CIP Base for 120" Material	EA	1	\$ 16,685.00	\$ 16,685.00
CLSM Concrete Around Existing Pipe	CY	6	\$ 96.00	\$ 576.00
120" Manhole Material Barrel Sections using Geneva Polymer	LS	1	\$ 26,156.15	\$ 26,156.15
Shoring Delivery & Return	EA	6	\$ 150.00	\$ 900.00
Shoring & Trench Boxes	Week	2	\$ 3,468.20	\$ 6,936.40
Survey & As-Built Documentation	HR	4	\$ 155.00	\$ 620.00
Asphalt Replacement - 36" x 66"	SY	136.11	\$ 65.00	\$ 11,589.35
Sawcut Existing Asphalt	LS	1	\$ 350.00	\$ 350.00
ABC Backfill	TONS	40.00	\$ 13.00	\$ 520.00
Dumping Fees	EA	5	\$ 20.00	\$ 100.00
Vacuum Testing	EA	1	\$ 175.00	\$ 175.00
Grout & Abandon Existing 21" SS Line	EA	1	\$ 3,200.00	\$ 3,200.00
Spill 314 LCR Excavator Rental from Empire Equipment	Week	1	\$ 1,540.00	\$ 1,540.00
Hydraulic Breaker H115S Rental from Empire Equipment	Week	1	\$ 1,700.00	\$ 1,700.00
Sikadur 31 Epoxy Coating - 2 gallon buckets	EA	10	\$ 69.49	\$ 694.90
Concrete Mortar Ring Around Base Shaft	CY	2	\$ 88.00	\$ 176.00

LINE ITEM # **3** **TOTAL COST** \$119,577.28  
**EA** **UNIT COST** 1.00  
**UNIT COST** \$ 119,577.28

Item 4 Description  
MH 5117-06 Removal/Replacement of MH due to Deterioration & Hydraulics (120") (Roger a/o of R

**LABOR**

	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Men	1	8	HR \$	40.65 \$	322.40 \$	35.00	11.55 \$	46.66
Operators	1	8	HR \$	33.25 \$	266.00 \$	25.00	8.25 \$	33.25
Laborer	2	8	HR \$	29.26 \$	468.16 \$	22.00	7.26 \$	29.26
Truck Driver	1	8	HR \$	30.59 \$	244.72 \$	28.00	7.89 \$	30.59

**EQUIPMENT**

	QTY	Hours	Unit	Price	TOTAL
Crew Trucks	1	8	DAY \$	28.89 \$	231.12
185 CFM Compressor	1	8	HR \$	18.96 \$	151.68
CAT420E Backhoe	1	8	HR \$	40.91 \$	327.28
10 Wheeler	1	8	HR \$	81.57 \$	652.56
2500 Gallon Water Truck	1	4	HR \$	32.73 \$	130.92

Crew, & Equipment Daily Rate: \$ 2,844.84  
2 HRS/MT Daily OT \$ 623.70

Crew, & Equipment Daily Rate With Overtime: \$ 3,468.54

Cost or work Breakdown for Line Item Based on above units and below durations

	Unit	Qty	Rate	Total
Excavation to Identify 36" Storm Drain Conflict & SprayReq Coat	Day	0.6	\$ 3,468.54	\$ 1,734.27

**MATERIAL / VENDORS / SUBS / SUPPLIERS**

Pour New CIP Base for 120" Material	EA	0	\$ 16,885.00	\$ -
CLSM Concrete Around Existing Pipe	CY	0	\$ 95.00	\$ -
120" Manhole Material Barrel Sections using Geneva Polymer	LS	0	\$ 26,019.00	\$ -
Shoring Delivery & Return	EA	0	\$ 1,520.52	\$ -
Shoring & Trench Boxes	Week	0	\$ 155.00	\$ -
Survey & As-Built Documentation	HR	0	\$ 155.00	\$ -
Asphalt Replacement - 10' x 10'	SY	11.11	\$ 85.00	\$ 944.35
Sawcut Existing Asphalt	LS	1	\$ 250.00	\$ 250.00
ABC Backfill	TONS	10.00	\$ 13.00	\$ 130.00
Dumping Fees	EA	1	\$ 20.00	\$ 20.00
Vacuum Testing	EA	0	\$ 175.00	\$ -
Reconnect Existing HDPE FM	EA	0	\$ 1,200.00	\$ -
Reconnect Existing 21" SS	EA	0	\$ 6,500.00	\$ -
New Composite Ladder System	EA	0	\$ 800.00	\$ -
Core Drill	EA	0	\$ 750.00	\$ -
Storm Drain Reconfigure	EA	0	\$ 5,500.00	\$ -
Sprayreq Structural Lining System	SF	0	\$ 65.00	\$ -
Mobilization for Sprayreq Crew	Trip	0	\$ 2,000.00	\$ -

LINE ITEM #	4	TOTAL COST	\$3,078.62
		EA	1.00
		UNIT COST	\$ 3,078.62

**EXHIBIT A.11.d - LABOR/MATERIAL/EQUIPMENT COST BREAKDOWN**  
**PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14**  
**RELOCATION OF 6" RECLAIMED WATER LINE AT MH 1708-36 - BID ITEM 3.4**

**PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT**  
**CONSTRUCTION MANAGER AT RISK SERVICES**



BDF CONTRACTING, INC.  
11011 N. 23rd Avenue  
Phoenix, AZ 85029  
Office: (623) 562-1170 / Fax: (480) 940-4576

Date: 2/17/2016  
GMP: 3

Item	Description						
	Relocate Existing 6" Reclaimed Water Line at MH 1708-36						
<u>LABOR</u>	QTY	Hours	Unit	Price	TOTAL	Rate	
Foremen	1	8	HR	\$ 46.20	\$ 369.60	\$ 35.00	11.2
Operators	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	8
Laborer	1	8	HR	\$ 29.04	\$ 232.32	\$ 22.00	7.04
Truck Driver	1	4	HR	\$ 30.36	\$ 121.44	\$ 23.00	7.26
							0.32
<u>EQUIPMENT</u>	QTY	Hours	Unit	Price	TOTAL		
Crew Trucks	1	8	DAY	\$ 28.09	\$ 231.12		
CAT420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28		
10 Wheeler	1	4	HR	\$ 31.57	\$ 126.28		
Crew, & Equipment Daily Rate: <u>\$ 1,672.04</u>							
Cost of work Breakdown for Line Item: Based on above units and below durations							
Excavate, Replace, Backfill & Compact for 6" Reclaimed W/L	Unit	Qty		Rate	Total		
	Day	2		\$ 1,672.04	\$ 3,344.08		
<u>MATERIAL / VENDORS / SUBS / SUPPLIERS</u>							
6" Reclaimed Waterline Material	EA	1	\$	4,043.17	\$ 4,043.17		
Shoring Delivery & Return	EA	2	\$	125.00	\$ 250.00		
Shoring & Trench Boxes	Week	1	\$	600.00	\$ 600.00		
LINE ITEM #	1			TOTAL COST	<u>\$8,637.25</u>		
				EA	1.00		
				UNIT COST	\$ 8,637.25		

## EXHIBIT A.11.e - LABOR/MATERIAL/EQUIPMENT COST BREAKDOWN

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14  
 TEMPORARY DISCHARGE MANHOLE - BID ITEM 4.4  
 PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT  
 CONSTRUCTION MANAGER AT RISK SERVICES



B&F CONTRACTING, INC.  
 11011 N. 23rd Avenue  
 Phoenix, AZ 85029  
 Office: (623) 682-1170 / Fax: (480) 840-4576

Date: 2/17/2016  
 GMP: 3

Item	Description							
	Temporary Discharge MH							
LABOR	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foremen	1	8	HR	\$ 46.20	\$ 369.60	\$ 35.00	11.2	\$ 46.20
Operators	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	8	\$ 33.00
Laborer	2	8	HR	\$ 29.04	\$ 464.64	\$ 22.00	7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 23.00	7.36	\$ 30.36
EQUIPMENT	QTY	Hours	Unit	Price	TOTAL			
Crew Trucks	2	8	DAY	\$ 28.89	\$ 462.24			
185 CFM Compressor	1	8	HR	\$ 18.96	\$ 151.68			
Komatsu PC90D Excavator	1	8	HR	\$ 117.65	\$ 941.20			
CAT420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28			
10 Wheeler	1	8	HR	\$ 81.57	\$ 652.56			
Crew, & Equipment Daily Rate: \$ 3,876.08								
Cost of work Breakdown for Line Item Based on above units and below durations								
Excavate, Remove, Replace, Backfill & Compact Existing		Unit	Qty	Rate	Total			
		Day	1.5	\$ 3,876.08	\$ 5,814.12			
MATERIAL / VENDORS / SUBS / SUPPLIERS								
Pour New CIP Base for 60" Material	EA	1	\$ 2,500.00	\$ 2,500.00				
60" MH Barrel Sections	LS	1	\$ 1,600.00	\$ 1,600.00				
Shoring Delivery & Return	EA	2	\$ 125.00	\$ 250.00				
Shoring & Trench Boxes	Week	1	\$ 415.80	\$ 415.80				
Sawcut Existing Asphalt	LS	1	\$ 350.00	\$ 350.00				
ABC Backfill	TONS	20.00	\$ 13.00	\$ 260.00				
Dumping Fees	EA	2	\$ 20.00	\$ 40.00				
LINE ITEM # 1		TOTAL COST \$11,129.92		EA 1.00				
		UNIT COST \$ 11,129.92						

**EXHIBIT A.11.f - LABOR/MATERIAL/EQUIPMENT COST BREAKDOWN**  
**PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14**  
**ACCESS ROAD IMPROVEMENTS IN PHASE 5 - BID ITEM 4.5**  
**PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DISTRICT**  
**CONSTRUCTION MANAGER AT RISK SERVICES**



B&F CONTRACTING, INC.  
1904 W. Prince Rd.  
Tucson, AZ 85705  
Office: (520) 207-8228 / Fax: (520) 582-3761

Date: 2/17/2016  
GMP: 3

Item	Description							
1	ACCESS ROAD IMPROVEMENTS IN PHASE 5 - BID ITEM 4.5							
<u>LABOR</u>	QTY	Hours	Unit	Price	TOTAL	Rate	Labor Burden	Total
Foremen	1	8	HR	\$ 46.20	\$ 369.60	\$ 36.00	\$ 11.20	\$ 46.20
Operator	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	\$ 8.00	\$ 23.00
勞工	1	8	HR	\$ 29.04	\$ 232.32	\$ 22.00	\$ 7.04	\$ 29.04
Truck Driver	1	8	HR	\$ 30.36	\$ 242.88	\$ 23.00	\$ 7.36	\$ 30.36
<u>EQUIPMENT</u>	QTY	Hours	Unit	Price	TOTAL			
Crew Trucks	1	8	HR	\$ 27.40	\$ 219.20			
CAT 420E Backhoe	1	8	HR	\$ 40.91	\$ 327.28			
CAT 3-5 ton roller	1	8	HR	\$ 31.29	\$ 250.32			
10 wheel comp truck	1	8	HR	\$ 79.55	\$ 636.40			
6 ton utility trailer	1	8	HR	\$ 3.51	\$ 28.08			
F-750 Water truck	1	8	HR	\$ 41.18	\$ 329.44			
Crew, & Equipment Daily Rate:					<u>\$ 2,899.52</u>			

Cost or work Breakdown for Line Item Based on above units and below durations

ACCESS ROAD IMPROVEMENTS IN PHASE 5 - BID ITEM 4.6	Unit	Qty	Rate	Total
	Days	3	\$ 2,899.52	\$ 8,698.56

Materials / Vendors / Suppliers

Kalemzoo Apache Red DG delivered 2000'x18'x4" compacted road	Ton	693	\$ 15.00	\$ 9,888.00
LINE ITEM #	1		TOTAL COST	<u>\$18,186.66</u>
			EA	1.00
			UNIT COST	\$ 18,186.66 A

## EXHIBIT A.12

### FMP Phase 3 & 6 Cost Breakdowns

**Construction Manager at Risk for Pima County Regional  
Wastewater Reclamation Department - North Rillito Interceptor  
Rehabilitation Project No. 3NRI14**

See the following items behind this sheet:

## EXHIBIT A.12.a

### FLOW MANAGEMENT PLAN - SUMMARY OF COSTS

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

Project No.	3NRI14	Date:	2/17/2016
Project Title	North Rillito Interceptor Rehab Project	GMP	#03
Project Location	Woodland Rd. to Sabino Creek	B&F Job #:	3150

Item	Description	Quantity	Unit	Unit Price	Extension
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**A Flow Management Phase 6 - Setup, Operation & Teardown - Bid Items 2.1 & 2.2**

**Phase 6A**

1	Phase 6A - Setup, Testing, Operation & Teardown	1	LS	\$ 116,593.01	\$ 116,593.01
2	Phase 6A - Operate FMP System	1	LS	\$ 266,040.54	\$ 266,040.54

**Phase 6B**

1	Phase 6B - Setup, Testing, Operation & Teardown	1	LS	\$ 87,219.97	\$ 87,219.97
2	Phase 6B - Operate FMP System	1	LS	\$ 159,795.20	\$ 159,795.20

**Phase 6C**

1	Phase 6C - Setup, Testing, Operation & Teardown	1	LS	\$ 170,805.00	\$ 170,805.00
2	Phase 6C - Operate FMP System	1	LS	\$ 261,610.62	\$ 261,610.62

Phase 6 Setup/Teardown Subtotal	\$ 374,617.98
Phase 6 Operation Subtotal	\$ 687,446.36

**B FMP Phase 6 - AC Restoration, ABC, Trenching, Plates, Etc. - Bid Item 2.5**

1	Phase 6A - Trenching, Backfill, Plates AC Restoration	1	LS	\$ 25,613.57	\$ 25,613.57
2	Phase 6B - Trenching, Backfill, Plates AC Restoration	1	LS	\$ 34,263.44	\$ 34,263.44
3	Phase 6C - Trenching, Backfill, Plates AC Restoration	1	LS	\$ 16,129.74	\$ 16,129.74

Phase 6 Subtotal	\$ 76,006.75
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**C Flow Management Phase 3 - Setup, Operation & Teardown - Bid Items 2.3 & 2.4**

**Phase 3**

1	Phase 3 - Setup, Testing Operation & Teardown	1	LS	\$ 290,152.76	\$ 290,152.76
2	Phase 3 - Operate FMP System	1	LS	\$ 453,429.02	\$ 453,429.02

Phase 3 Setup/Teardown Subtotal	\$ 290,152.76
Phase 3 Operation Subtotal	\$ 453,429.02

**D FMP Phase 3 - AC Restoration, ABC, Trenching, Plates, Etc. - Bid Item 2.6**

1	Phase 3 - Trenching, Backfill, Plates AC Restoration	1	LS	\$ 33,466.13	\$ 33,466.13
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Phase 3 Subtotal	\$ 33,466.13
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Project Name:

NRI Rehab - Phase 6A FMP

City:

Pima County Regional Wastewater Reclamation

DATE:

2/17/2016

Document Name:

FMP Phase 6A - Estimate Recap

See Bid Item 2.1 & 2.2 on Exhibit A.3 or Exhibit A.12.a for the Cost Summary

Production Task Items Labor

11,627.41 SUBTOTAL COLUMN #1 66,882.48

Overtime (0%)

- PRODUCTION EQUIP 12,040.44

Misc. FMP Items

- INSTALL/REMOVE EQUIP 37,670.09

FMP Mobilization/Demobilization

7,000.00 TOTAL DIRECT COSTS 116,593.01

Bypass Setup/Teardown Labor

25,765.07 Bypass MUP

Equipment Rental During Setup

22,490.00 FMP Setup/Teardown Subtotal

116,593.01

SUBTOTAL COLUMN #1

66,882.48

FMP Installation/Removal Cost \$ 116,593.01

# DAYS RUN TIME IN WORKSHEET

45.00 FMP Rental & Operation Cost \$ 266,040.54

FMP TOTAL COST \$ 382,633.55

Project Name:

NRI Rehab - Phase 6B FMP

City:

Pima County Regional Wastewater Reclamation

DATE:

2/17/2016

Document Name:

FMP Phase 6B - Estimate Recap

See Bid Item 2.1 & 2.2 on Exhibit A.3 or Exhibit A.12.a for the Cost Summary

Production Task Items Labor	9,079.89	SUBTOTAL COLUMN #1	45,803.60
Overtime (0%)	-	PRODUCTION EQUIP	9,599.88
Cost for I-Beam Supports at Wash	-	INSTALL/REMOVE EQUIP	31,816.48
FMP Mobilization/Demobilization	800.00	TOTAL DIRECT COSTS	87,219.97
Bypass Setup/Teardown Labor	21,366.38	Bypass MUP	
Equipment Rental During Setup	14,557.33	FMP Setup/Teardown Subtotal	87,219.97
<b>SUBTOTAL COLUMN #1</b>	<b>45,803.60</b>		
		<b>FMP Installation/Removal Cost</b>	<b>\$ 87,219.97</b>
<b># DAYS RUN TIME IN WORKSHEET</b>	<b>-</b>	<b>FMP Rental &amp; Operation Cost</b>	<b>\$ 159,795.20</b>
		<b>FMP TOTAL COST</b>	<b>\$ 247,015.17</b>

Project Name:

NRI Rehab - Phase 6C FMP

City:

Pima County Regional Wastewater Reclamation

DATE:

2/17/2016

Document Name:

FMP Phase 6C - Estimate Recap

See Bid Item 2.1 & 2.2 on Exhibit A.3 or Exhibit A.12.a for the Cost Summary

Production Task Items	Labor	24,943.85	SUBTOTAL COLUMN #1	110,276.12
Overtime (0%)		-	PRODUCTION EQUIP	26,388.56
Misc. Materials for FMP & I-Beam Support		17,269.63	INSTALL/REMOVE EQUIP	34,140.32
FMP Mobilization/Demobilization		4,250.00	TOTAL DIRECT COSTS	170,805.00
FMP I-Beam Bridge Set & Remove		10,215.36		
Bypass Setup/Teardown Labor		30,423.95	Bypass MUP	
Equipment Rental During Setup		23,173.33	FMP Setup/Teardown Subtotal	170,805.00
<b>SUBTOTAL COLUMN #1</b>		<b>110,276.12</b>		
			<b>FMP Installation/Removal Cost</b>	<b>\$ 170,805.00</b>
			<b>- FMP Rental &amp; Operation Cost</b>	<b>\$ 261,610.62</b>
			<b>FMP TOTAL COST</b>	<b>\$ 432,415.62</b>

Project Name: NRI Rehab - Phase 6A FMP  
City: Pima County Regional Wastewater Reclamation Department  
DATE: 2/17/2016  
Document Name: FMP Phase 6A - AC Restoration, ABC, Plates, Etc.  
See Bid Item 2.5 on Exhibit A.3 or Exhibit A.12.a for the Cost Summary

Production Task Items Labor	7,386.00	Asphalt	4,339.35
		Sawcutting	1,187.50
SUBTOTAL COLUMN #1	<u>7,386.00</u>	Milling for Plates	
		Slurry	1,668.89
		ABC Subgrade	\$493.83
		Trucking / Hauling	1,434.00
		Traffic Plate Rental	2,770.00
		Dump Fees	150.00
		SUBTOTAL COLUMN #2	<u>12,043.57</u>
		SUBTOTAL COLUMN #1	<u>7,386.00</u>
Production Task Items Equip			6,184.00
		TOTAL DIRECT COSTS	<u>25,613.57</u>
		SUBTOTAL	<u>25,613.57</u>

Project Name: **NRI Rehab - Phase 6B FMP**  
City: **Pima County Regional Wastewater Reclamation Department**  
DATE: **2/17/2016**  
Document Name: **FMP Phase 6B - AC Restoration, ABC, Plates, Etc.**  
See Bid Item 2.5 on Exhibit A.3 or Exhibit A.12.a for the Cost Summary

Production Task Items Labor	11,679.00	Asphalt	3,967.41
		Sawcutting	1,386.00
<b>SUBTOTAL COLUMN #1</b>	<b>11,679.00</b>	<b>Milling for Plates</b>	<b>-</b>
		Slurry	804.44
		ABC Subgrade	\$912.59
		Trucking / Hauling	2,868.00
		Traffic Plate Rental	2,770.00
		Dump Fees	225.00
		<b>SUBTOTAL COLUMN #2</b>	<b>12,933.44</b>
		<b>SUBTOTAL COLUMN #1</b>	<b>11,679.00</b>
Production Task Items Equip			9,651.00
<b>TOTAL DIRECT COSTS</b>			<b>34,263.44</b>
		<b>SUBTOTAL</b>	<b>34,263.44</b>

Project Name: NRI Rehab - Phase 6B FMP  
City: Pima County Regional Wastewater Reclamation Department  
DATE: 2/17/2016  
Document Name: FMP Phase 6C - AC Restoration, ABC, Plates, Etc.  
See Bid Item 2.5 on Exhibit A.3 or Exhibit A.12.a for the Cost Summary

Production Task Items Labor	4,559.50	Asphalt	2,569.91
		Sawcutting	1,220.00
SUBTOTAL COLUMN #1	<u>4,559.50</u>	Milling for Plates	-
		Slurry	-
		ABC Subgrade	\$333.33
		Trucking / Hauling	1,434.00
		Traffic Plate Rental	1,930.00
		Dump Fees	120.00
		SUBTOTAL COLUMN #2	<u>7,807.24</u>
		SUBTOTAL COLUMN #1	<u>4,559.50</u>
Production Task Items Equip			3,963.00
TOTAL DIRECT COSTS			16,129.74
		SUBTOTAL	16,129.74

Project Name: NRI Rehab - Phase 3 FMP  
City: Pima County Regional Wastewater Reclamation Department  
DATE: 2/17/2016  
Document Name: FMP Phase 3 - AC Restoration, ABC, Plates, Etc.  
See Bid Item 2.6 on Exhibit A.3 or Exhibit A.12.a for the Cost Summary

Production Task Items Labor	12,179.00	Asphalt	4,517.90
		Sawcutting	962.50
<b>SUBTOTAL COLUMN #1</b>	<b>12,179.00</b>	<b>Milling for Plates</b>	<b>-</b>
		Slurry	-
		ABC Subgrade	\$661.73
		Trucking / Hauling	1,434.00
		Traffic Plate Rental	3,610.00
		Dump Fees	225.00
		<b>SUBTOTAL COLUMN #2</b>	<b>11,411.13</b>
		<b>SUBTOTAL COLUMN #1</b>	<b>12,179.00</b>
		Production Task Items Equip	9,876.00
		<b>TOTAL DIRECT COSTS</b>	<b>33,466.13</b>
		<b>SUBTOTAL</b>	<b>33,466.13</b>

## EXHIBIT A.12.b

### MH R/R, Fiberglass Inserts, Sprayroq Lining - SUMMARY OF COSTS

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

Project No.	3NRI14	Date:	2/17/2016
Project Title	North Rillito Interceptor Rehab Project	GMP	#03
Project Location	Woodland Rd. to Sabino Creek	B&F Job #:	3150

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Item	Description	Quantity	Unit	Unit Price	Extension
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#### PHASE 1 MANHOLE REPLACEMENTS - BID ITEM 3.1

1	MH 8716-07 Removal/Replacement	1	EA	\$ 56,076.36	\$ 56,076.36
2	MH 8716-06 Removal/Replacement	1	EA	\$ 45,299.12	\$ 45,299.12
3	MH 8716-03 Removal/Replacement	1	EA	\$ 48,609.16	\$ 48,609.16
<u>Subtotal</u>					<u>\$ 149,984.64</u>

#### PHASE 1 FIBERGLASS INSERTS - BID ITEM 3.2

1	MH 8716-05 Repair Using Fiberglass Insert	1	EA	\$ 14,708.52	\$ 14,708.52
2	MH 8716-04 Repair Using Fiberglass Insert	1	EA	\$ 14,791.50	\$ 14,791.50
3	MH 8716-02 Repair Using Fiberglass Insert	1	EA	\$ 18,373.34	\$ 18,373.34
<u>Subtotal</u>					<u>\$ 47,873.36</u>

#### PHASE 2 & 6 MH SPRAYROQ SPRAYWALL STRUCTURAL LINING SYSTEM IN LIEU OF R/R - BID ITEM 4.2

Item	Phase	MH I.D.	Depth	Diameter r	MH Base SF	Chimney Section	SF Per VF	Total SF
1	2	1700-16	20	5	50	22	19.66	465.16
2	2	1700-15	16	5	50	22	19.66	386.53
3	2	8295-01	15	5	50	22	19.66	366.87
4	2	1811-01A	13	5' x 5' Box	50	22	20.00	332.00
5	2	1700-12	13	5	50	22	19.66	327.56
6	2	1700-13	13	5	50	22	19.66	327.56
7	2	1700-11	13	5	50	22	19.66	327.56
8	2	1700-09	13	5	50	22	19.66	327.56
9	2	1700-08	13	5	50	22	19.66	327.56
10	2	1700-07	8	5	50	22	19.66	229.27
11	6	1708-30	12	5	50	22	19.66	307.90

Subtotal	3725.51
10% Qty Variance	372.55
Total SF for Sprayroq	4091.00
\$/SF	\$ 60.50

Subtotal \$ 247,505.50

#### PHASE 6 MANHOLE REPLACEMENTS, REPAIRS - BID ITEM 3.3

1	MH 1708-34A Removal/Replacement	1	LS	\$ 70,592.95	\$ 70,592.95
2	MH 1708-34 Removal/Replacement	1	LS	\$ 114,315.81	\$ 114,315.81
3	MH 1708-36 Removal/Replacement	1	LS	\$ 119,577.28	\$ 119,577.28
4	MH 5117-06 Excavation & Investigation Work	1	LS	\$ 3,078.62	\$ 3,078.62
5	Freight for Geneva Polymer MH Material	1	LS	\$ 4,800.00	\$ 4,800.00

Subtotal \$ 312,364.66



## CERTIFICATE OF AUTHORITY INDIVIDUAL ATTORNEY-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, that:

1. Employers Mutual Casualty Company, an Iowa Corporation
2. EMCASCO Insurance Company, an Iowa Corporation
3. Union Insurance Company of Providence, an Iowa Corporation
4. Illinois EMCASCO Insurance Company, an Iowa Corporation
5. Dakota Fire Insurance Company, a North Dakota Corporation
6. EMC Property & Casualty Company, an Iowa Corporation
7. Hamilton Mutual Insurance Company, an Iowa Corporation

hereinafter referred to severally as "Company" and collectively as "Companies", each does, by these presents, make, constitute and appoint:  
DAVID J. WILSTEAD, TAYLOR J. WILSTEAD, CYNTHIA KLEINER

its true and lawful attorney-in-fact, with full power and authority conferred to sign, seal, and execute its lawful bonds, undertakings, and other obligatory instruments of a similar nature as follows:

## ANY AND ALL BONDS

and to bind each Company thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of each such Company, and all of the acts of said attorney pursuant to the authority hereby given are hereby ratified and confirmed.

The authority hereby granted shall expire APRIL 1, 2017 unless sooner revoked.

## AUTHORITY FOR POWER OF ATTORNEY

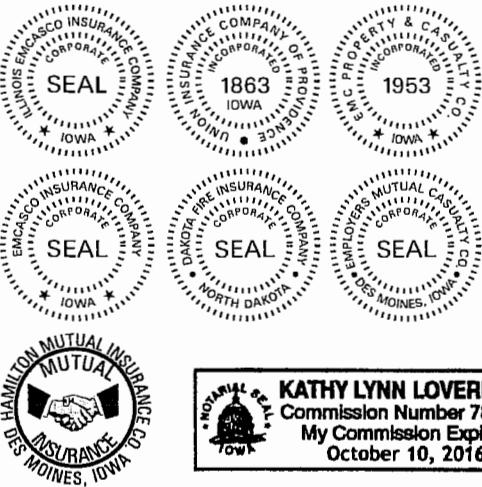
This Power-of-Attorney is made and executed pursuant to and by the authority of the following resolution of the Boards of Directors of each of the Companies at a regularly scheduled meeting of each company duly called and held in 1999:

**RESOLVED:** The President and Chief Executive Officer, any Vice President, the Treasurer and the Secretary of Employers Mutual Casualty Company shall have power and authority to (1) appoint attorneys-in-fact and authorize them to execute on behalf of each Company and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof; and (2) to remove any such attorney-in-fact at any time and revoke the power and authority given to him or her. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power-of-attorney issued to them, to execute and deliver on behalf of the Company, and to attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and any such instrument executed by any such attorney-in-fact shall be fully and in all respects binding upon the Company. Certification as to the validity of any power-of-attorney authorized herein made by an officer of Employers Mutual Casualty Company shall be fully and in all respects binding upon this Company. The facsimile or mechanically reproduced signature of such officer, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power-of-attorney of the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

**IN WITNESS THEREOF,** the Companies have caused these presents to be signed for each by their officers as shown, and the Corporate seals to be hereto affixed this

7th day of MARCH, 2016.

Seals



Bruce G. Kelley, Chairman  
of Companies 2, 3, 4, 5 & 6; President  
of Company 1; Vice Chairman and  
CEO of Company 7

Michael Freil  
Assistant Vice President

On this 7th day of MARCH AD 2016 before me a Notary Public in and for the State of Iowa, personally appeared Bruce G. Kelley and Michael Freil, who, being by me duly sworn, did say that they are, and are known to me to be the Chairman, President, Vice Chairman and CEO, and/or Assistant Vice President/Assistant Secretary, respectively, of each of The Companies above; that the seals affixed to this instrument are the seals of said corporations; that said instrument was signed and sealed on behalf of each of the Companies by authority of their respective Boards of Directors; and that the said Bruce G. Kelley and Michael Freil, as such officers, acknowledged the execution of said instrument to be the voluntary act and deed of each of the Companies.

My Commission Expires October 10, 2016.

Notary Public in and for the State of Iowa

## CERTIFICATE

I, James D. Clough, Vice President of the Companies, do hereby certify that the foregoing resolution of the Boards of Directors by each of the Companies, and this Power of Attorney issued pursuant thereto on MARCH 7, 2016 on behalf of:  
DAVID J. WILSTEAD, TAYLOR J. WILSTEAD, CYNTHIA KLEINER

are true and correct and are still in full force and effect.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 23rd day of May, 2016.

Vice President

## SURETY RIDER

To be attached to and form a part of Bond S-428843 dated the 25th day of November, 2014 the Employers Mutual Casualty Company as Surety, issued on behalf B & F Contracting, Inc. as Principal, in favor of the Pima County Regional Wastewater Reclamation Department, AZ as Obligee,

**It is agreed that the Bond Value be Corrected and Increased:**

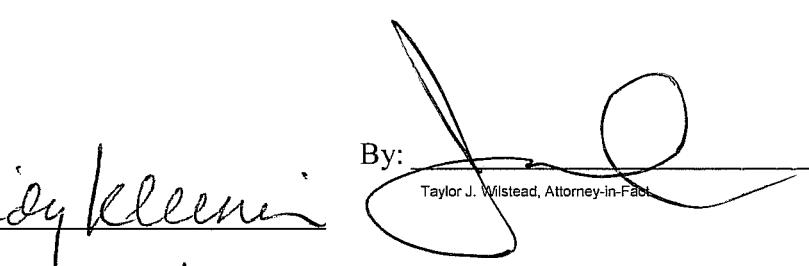
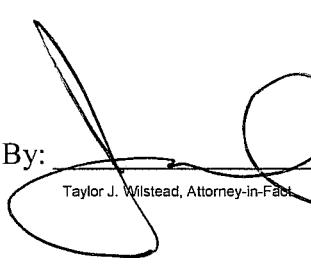
**From:** Seventeen Million Five Hundred Fifty Eight Thousand Seven Hundred & 29/100 Dollars  
\$17,558,700.29

**Change to:** Twenty One Million Six Hundred Eighty Six Thousand Eighty-Five & 18/100 Dollars  
\$21,686,085.18

provided, however, that the bond shall be subject to all its agreements, limitations, and conditions except as herein expressly modified, and further that the liability of the Surety under the bond as amended by this rider shall not be cumulative.

This rider is effective as of 12:01am on March 17, 2016

**Signed, sealed and dated this 23rd Day of May, 2016**

Attest: Cindy Kleene   
By:   
Taylor J. Wilstead, Attorney-in-Fact

Accepted: May 27, 2016  
Signature of Authorized Representative for Obligee  
Print Name and Title: Mary J. Murphy, Project Director