

BOARD OF SUPERVISORS AGENDA ITEM SUMMARY

Requested Board Meeting Date: October 14, 2014

ITEM SUMMARY, JUSTIFICATION and/or SPECIAL CONSIDERATIONS:

Amendment # 1 contract # CT-WW-1400000000000000189, B&F Contracting, Inc., Construction Manager at Risk Services for The North Rillito Interceptor Rehabilitation – Project No. 3NRI14. This amendment adds Total Amended Design Phase Services in the amount of \$485,960.88 to the contract. Funding Source: RWRD Obligation Fund. Administering Department: Regional Wastewater Reclamation Department.

This amendment provides for complete, anticipated pre-construction activities for all project phases. As indicated in the November 19, 2013 Board of Supervisors Agenda Item Summary for the initial award of this project, the total cost including pre-construction and construction phase services was estimated not to exceed \$18,500,000.00. This amendment increases the total contract amount to \$675,253.78.

Effective Date: October 14, 2014

Termination Date: July 31, 2016

Original Contract Amount: \$189,292.90

Previous Amendment(s):

Previous Contract Amount: \$189,292.90

Amount this Amendment: \$485,960.88

Revised Contract Amount: \$675,253.78

Project Manager: Noel Ortiz

Contract Officer: Keith Rogers, 724-3542
Procurement Department

AMS# CT-WW-1400000000000000189 Ver. 3

Please return to Harry Lewis.

Cont #	: CT-WW-14-189-01
Effective	: 10-14-2014
Term	: 07-31-2016
Cost	: \$485,960.88
Rev	: \$
Tot	: \$485,960.88
NTE	: \$675,253.78
Timex	: NO
Renewal	: 04-01-2016
Term	: 07-31-2016

Procure Dept 10/01/14 PM 09:41

Vendor - 1

Pgs. - 35

CLERK OF BOARD USE ONLY: BOS MTG. _____

ITEM NO. _____

To: CoB - 10-1-14
Agenda - 10-14-14
(1)

**PIMA COUNTY REGIONAL WASTEWATER
RECLAMATION DEPARTMENT**

PROJECT: Construction Manager At Risk Services
for The North Rillito Interceptor
Rehabilitation Project No. 3NR114

CONTRACTOR: B&F Contracting, Inc.
1908 W. Prince Road
Tucson, AZ 85705

CONTRACT NO.: CT-WW-14000000000000000189

AMENDMENT NO.: One (1)

FUNDING: RWRD Obligation Fund

CONTRACT

NO. CT-WW-14000000000000000189

AMENDMENT NO. 01

This number must appear on all
invoices, correspondence and
documents pertaining to this
contract.

CONTRACT TERM: 08/19/2013 - 07/31/2016	ORIGINAL CONTRACT AMOUNT:	\$	189,292.90
TERMINATION PRIOR AMENDMENT: 07/31/2016	PRIOR AMENDMENT(S):	\$	-
TERMINATION THIS AMENDMENT: 07/31/2016	AMOUNT THIS AMENDMENT:	\$	485,960.88
	REVISED CONTRACT AMOUNT:	\$	675,253.78

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 additional Design Phase Services into the contract for pre-construction services as detailed in ATTACHMENT 1, TOTAL DESIGN PHASE SERVICES, TO APPENDIX "G" (33 pages); and,

WHEREAS, COUNTY and CONTRACTOR have mutually agreed to a fee of \$485,960.88 for the additional Design Phase Services.

NOW, THEREFORE, it is agreed as follows:

CHANGE: The captioned contract amount to read: Not to Exceed \$675,253.78

CHANGE: ARTICLE III – PAYMENT, PHASE I: PRE CONSTRUCTION SERVICES

Replace the first paragraph with:

CMAR agrees to perform all Pre-Construction Services on a Cost Plus Fixed Fee basis in an amount not to exceed Six Hundred Seventy-Five Thousand Two Hundred Fifty-Three Dollars and Seventy-Eight Cents (\$675,253.78) and in accordance with Appendix "G" – Estimated Preconstruction Services and Fee Schedule (16 pages) and Attachment 1, Total Design Phase Services, To Appendix "G" (33 pages), attachments to this contract. Payment shall be due and payable pursuant to A.R.S. § 34-609.

ADD: To APPENDIX "G", ATTACHMENT 1, TOTAL DESIGN PHASE SERVICES, TO APPENDIX "G", dated September 3, 2014 (33 pages attached).

This Amendment shall be effective on October 14, 2014.


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:

CONTRACTOR:

Chair, Board of Supervisors



Signature

Date

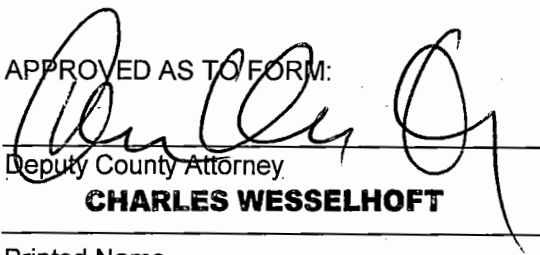
Thomas F. Foley President
Name and Title (Please Print)

9-25-2014
Date

ATTEST:

Clerk of the Board

APPROVED AS TO FORM:



Deputy County Attorney

CHARLES WESSELHOFT

Printed Name

9-17-14
Date



September 3, 2014

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

RE: Design Phase Services for Construction Manager at Risk for North
Rillito Interceptor Rehabilitation
Project No.: 3NRI14
Contract No.: CT-WW-00000000000000189
B&F Job No.: 3145

SUBJECT: DESIGN PHASE SERVICES AMENDMENT #1

Dear Mr. Ortiz,

Attached for your review is Amendment #1 to our Design Phase Services Proposal for the additional engineering, structural, environmental and survey related work, 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 Amendment #1 to the design phase services, dated 9/3/2014.

B&F proposes to complete the work associated with Amendment #1 for a not-to-exceed amount of **\$485,960.88**. See below for the current summary of costs:

Design Phase Services:	\$ 189,292.90
Design Phase Services Amendment #1:	\$ 485,960.88

TOTAL AMENDED DESIGN PHASE SERVICES: \$ 675,253.78

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,

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

B&F CONTRACTING, INC.

Pima County Regional Wastewater Reclamation Department
 Construction Manager at Risk Services for North Rillito Interceptor
 Rehabilitation Project No. 3NR14

Date: 9/3/2014 Contract # CT-WW-14****189
 Amendment # 1
 Page 1



1908 W. Prince Rd.
 Tucson, AZ 85705
 Office: 520.207.8228 / Fax: 520.305.3323
 A- General Engineering License ROC-089744

EXHIBIT 1 - DESIGN PHASE SERVICES PROPOSAL - AMENDMENT 1

ITEM DESCRIPTION	PD	DE	PM	PS	PE	PA	TOTAL HOURS	TOTAL COST
1. MEETINGS (3 Additional Months of Design Phase)	\$ 121.99	\$ 167.00	\$ 82.26	\$ 87.13	\$ 59.25	\$ 40.60		
Project Team Meetings (1 per week for 3 additional months of Design Phase @ 2hrs)	24	0	24	24	24	0	96	\$ 8,415.12
Meetings with Design Consultant	6	0	24	0	6	0	36	\$ 3,061.68
Public Outreach (1 meeting for 3 additional months @ 2 hrs)	6	0	8	0	6	0	20	\$ 1,745.52
Additional Site Visits	0	0	24	12	12	0	48	\$ 3,730.80
Meeting Preparation	0	0	24	0	24	0	48	\$ 3,396.24
TEAM MEMBER TOTALS	4,391.64	\$ -	\$ 8,555.04	\$ 3,136.68	\$ 4,266.00	\$ -	ITEM 1	\$ 20,349.36
TEAM MEMBER HOURS	36.00	0.00	104.00	36.00	72.00	0.00	TOTAL HOURS	248.00
2. REIMBURSABLE/ALLOW (B&F)	QTY	UNIT	RATE	TOTAL				
Printing, Reproduction, Postage, Supplies, etc... (3 additional months of design)	1	LS	\$ 1,500.00	\$ 1,500.00			ITEM 2	\$ 1,500.00
3. B&F DESIGN & INVESTIGATION RELATED WORK	QTY	UNIT	RATE	TOTAL				
T-Lock Investigation Work to Determine PVC Lining Configuration	1	LS	\$ 63,969.56	\$ 63,969.56				
MH Inspection & Condition Assessment Support	1	LS	\$ 6,141.20	\$ 6,141.20				
ACP Pipe Investigation Work	1	LS	\$ 47,881.82	\$ 47,881.82				
Pot-Holing for Utility Investigation	1	LS	\$ 10,039.96	\$ 10,039.96			ITEM 3	\$ 128,032.54
4. BROWN & CALDWELL RELATED DESIGN SERVICES	QTY	UNIT	RATE	TOTAL				
MH Inspection & Assessment	1	LS	\$ 25,626.00	\$ 25,626.00				
TCE Coordination	1	LS	\$ 8,016.00	\$ 8,016.00				
FMP Assistance (Phase 3 through 6)	1	LS	\$ 38,474.00	\$ 38,474.00				
Structural Engineering & Calculations for New Structures	1	LS	\$ 46,974.00	\$ 46,974.00			ITEM 4	\$ 119,090.00
5. PSOMAS RELATED DESIGN SERVICES FOR SURVEY, TCE's, LEGAL DESCRIPTIONS	QTY	UNIT	RATE	TOTAL				
Legal Descriptions, Survey, TCE's & Utility Consulting Services	1	LS	\$ 79,440.00	\$ 79,440.00			ITEM 5	\$ 79,440.00
6. HARRIS ENVIRONMENTAL DESIGN SERVICES FOR NPPO & ENVIRONMENTAL ENGINEERING	QTY	UNIT	RATE	TOTAL				
Native Plant Preservation & Planning, Monitoring, Cultural Resource Services	1	LS	\$ 74,504.00	\$ 74,504.00				
ASM Repository Fee for Cultural Resources	1	LS	\$ 3,000.00	\$ 3,000.00				
Archeological Monitoring During Investigation Work on Sutton Lane for T-Lock	12	HR	\$ 150.00	\$ 1,800.00			ITEM 6	\$ 79,304.00
7. STORM WATER POLLUTION PREVENTION PLANNING (SWPPP)	QTY	UNIT	RATE	TOTAL				
Native Plant Preservation & Planning, Monitoring, Cultural Resource Services	1	LS	\$ 15,800.00	\$ 15,800.00			ITEM 7	\$ 15,800.00
DESIGN PHSE SERVICES SUBTOTAL								\$ 443,515.90

B&F Overhead at 8.8% (Item 2 & 3 Only) \$ 11,398.86

Profit at 7% \$ 31,046.11

TOTAL AMENDMENT #1 DESIGN PHASE SERVICES \$ 485,960.88

B&F CONTRACTING, INC.

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

Date: 9/3/2014 Contract # CT-WW-14***189
Amendment # 1
Page 2



1908 W. Prince Rd.
Tucson, AZ 85705
Office: 520.207.8228 / Fax: 520.305.3323
A- General Engineering License ROC-089744

EXHIBIT 1 - DESIGN PHASE SERVICES PROPOSAL - AMENDMENT 1

Refer to Design Phase Services Fee Schedule, Exhibit 2

Services to be compensated based on actual hours and actual invoiced services provided

Item 1 - Includes additional costs associated with 3 additional months of design phase services for B&F Project Team for efforts performed during meetings, outreach efforts, site visits, pre-bid, and bid opening and proposal review

Item 2 - Includes Reimbursable costs to B&F for printing costs, reproduction, office supplies and copies

Item 3 - B&F Related Design & Investigation Work/Activities

Item 4 - Brown & Caldwell Design/Engineering Related Services

Item 5 - Psomas Design Related Services for Survey, TCE's, Legal Descriptions

Item 6 - Harris Environmental - Environmental Engineering Services for NPPO & Cultural Resources

Item 7 - Storm Water Pollution Prevention Planning (SWPPP) Services from Argus

Overhead rate applied to B&F Work Items Only, Items 1 & 2 (excludes overhead costs Brown & Caldwell, Psomas, Harris or Argus)

List of Attachments:

Brown & Caldwell Design Phase Services Proposal

Psomas - Design Services Proposal

Harris Environmental - Design Services Proposal

Argus - SWPPP Services Proposal

B&F Design Phase Services Fee Schedule (Exhibit 2)

9.3.2014

Thomas Foley

DATE

Project Director & President of B&F Contracting, Inc.

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

T-LOCK INVESTIGATION FMP

LABOR/MATERIAL/EQUIPMENT BREAKDOWN

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: (623) 582-3761

Date: 9/3/2014

Item Description
1 Install/Test/Operation/Remove 33-inch FMP System for T-Lock Inspection & Configuration

<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>
							0.32	
Foremen	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Operators	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	\$ 29.04
Fusion Technician	1	8	HR	\$ 56.76	\$ 454.08	\$ 43.00	\$ 13.76	\$ 56.76
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>
Crew Trucks	2	8	DAY	\$ 28.89	\$ 462.24
185 CFM Compressor	1	8	HR	\$ 18.96	\$ 151.68
Pneumatic Chippers & Jackhammers	1	8	HR	\$ 1.12	\$ 8.96
CAT 420E Backhoe	1	8	HR	\$ 41.01	\$ 328.08
2500 Gallon Water Truck	1	8	HR	\$ 32.73	\$ 261.84
Ingersoll Rand 10k Forklift	1	8	HR	\$ 57.16	\$ 457.28
10 Wheeler	1	8	HR	\$ 81.57	\$ 652.56

Crew, & Equipment Daily Rate: \$ 3,853.84

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

	<u>Unit</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>
Install/Test/Operation/Remove 33-inch FMP System for T-Lock Inspection & Configuration	Day	4	\$ 3,853.84	\$ 15,415.36
FMP RENTALS & MATERIALS				
Install, Test & Teardown of FMP System	DAY	4	\$ 3,853.84	\$ 15,415.36
FUSE HDPE Discharge Piping	LS	1	\$ 6,600.00	\$ 6,600.00
Pump Rental (5 each 12-Inch Pumps)	Day	1	\$ 3,208.00	\$ 3,208.00
Pipe/Fittings/Valve/Manifolds/Plug Rental	Day	1	\$ 1,327.00	\$ 1,327.00
Pump Watch Labor	Day	1	\$ 2,192.00	\$ 2,192.00
Fuel	Gal	376	\$ 4.00	\$ 1,504.00
MH Cone & Shaft Material Replacement	LS	1	\$ 1,134.00	\$ 1,134.00
Asphalt Replacement at SMH	SY	11.1	\$ 150.00	\$ 1,665.00
LINE ITEM # 1			TOTAL COST	\$48,460.72
			EA	1.00
			UNIT COST	\$ 48,460.72

Item Description
2 Mobilization & Demobilization of FMP Equipment to Project Site

<u>EQUIPMENT</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>
12-inch Pumps	3		EA	\$ 150.00	\$ 450.00
18-inch HDPE Pipe	2		EA	\$ 150.00	\$ 300.00
CAT 420 E Backhoe	1		EA	\$ 150.00	\$ 150.00
Ingersoll Rand Reach Forklift	1		EA	\$ 150.00	\$ 150.00

Mobilization Cost \$ 1,050.00
2 Trips for Mob/Demob \$ 2,100.00

LINE ITEM # 2 Unit Cost \$ 2,100.00

Item

Description

3

Confined Space Entry for Inspection of T-Lock to Determine Configuration

<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>
							0.32	
Foremen	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	10.24	\$ 42.24
Laborer	2	8	HR	\$ 29.04	\$ 464.64	\$ 22.00	7.04	\$ 29.04

<u>EQUIPMENT</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>
Crew Trucks	1	8	DAY	\$ 28.89	\$ 231.12
Confined Space Equipment	1	8	HR	\$ 25.00	\$ 200.00

Crew, & Equipment Daily Rate: \$ 1,233.68

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

	<u>Unit</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>
Confined Space Entry for Inspection of T-Lock to	Day	0.5	\$ 1,233.68	\$ 616.84

LINE ITEM # 3 UNIT COST \$ 616.84

Item

Description

4

Traffic Control - Traffic Flaggers on Sutton Lane

<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>
							0.32	
Traffic Flagger	2	8	HR	\$ 46.20	\$ 739.20	\$ 35.00	11.2	\$ 46.20

<u>EQUIPMENT</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>
Flagger Truck	1	8	DAY	\$ 30.00	\$ 240.00

Crew, & Equipment Daily Rate: \$ 979.20

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

	<u>Unit</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>
Traffic Control - Traffic Flaggers on Sutton Lane	Day	10	\$ 979.20	\$ 9,792.00

FMP RENTALS & MATERIALS

Barricade & Device Rental	DAY	50	\$ 60.00	\$ 3,000.00
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LINE ITEM # 4 UNIT COST \$ 12,792.00

LUMP SUM TOTAL FOR T-LOCK INVESTIGATION \$ 63,969.56

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

MH INSPECTION & ASSESSMENT

LABOR/MATERIAL/EQUIPMENT BREAKDOWN

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: (623) 582-3761

Date: 9/3/2014

Item	Description									
1	Support MH Inspection & Condition Assessment									
LABOR			<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	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24	0.32	
Laborer	1	8	HR	\$ 29.04	\$ 232.32	\$ 22.00	\$ 7.04	\$ 29.04		
EQUIPMENT			<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>			
Crew Trucks	1	8	DAY	\$ 28.89	\$ 231.12					
Confined Space Equipment (Tripod, Winch, Tester, Harness)	1	8	HR	\$ 25.00	\$ 200.00					
Ventilating Blower	1	8	HR	\$ 8.36	\$ 66.88					
Crew, & Equipment Daily Rate:						\$ 1,068.24				
Cost or work Breakdown for Line Item Based on above units and below durations										
		<u>Unit</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>					
Support MH Inspection & Condition Assessment		Day	5	\$ 1,068.24	\$ 5,341.20					
VENDORS/SUPPLIERS/MATERIALS										
Traffic Control (Shadow Truck)		HR	16	\$ 50.00	\$ 800.00					
LINE ITEM #	1				TOTAL COST	\$ 6,141.20				

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

ACP PIPE INVESTIGATION

EXHIBIT 1.C LABOR/MATERIAL/EQUIPMENT BREAKDOWN

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: (623) 582-3761

Date: 9/3/2014

Item

1

Install/Test/Operation/Remove FMP for 18-inch ACP Pipe Investigation

<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>
							0.32	
Foremen	2	8	HR	\$ 42.24	\$ 675.84	\$ 32.00	\$ 10.24	\$ 42.24
Operator	1	8	HR	\$ 33.00	\$ 264.00	\$ 25.00	\$ 8.00	\$ 33.00
Laborer	2	8	HR	\$ 29.04	\$ 464.64	\$ 22.00	\$ 7.04	\$ 29.04
Fusion Technician	1	8	HR	\$ 56.76	\$ 454.08	\$ 43.00	\$ 13.76	\$ 56.76
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>			
Crew Trucks	3	8	DAY	\$ 28.89	\$ 693.36			
185 CFM Compressor	1	8	HR	\$ 18.96	\$ 151.68			
McElroy 618 Fusion machine	1	1	Day	\$ 375.00	\$ 375.00			
Ingersoll Rand 10k Forklift	1	8	HR	\$ 57.16	\$ 457.28			
10,000 CFM Blower	1	1	Day	\$ 163.00	\$ 163.00			
CAT 420E Backhoe	1	8	HR	\$ 41.01	\$ 328.08			
2500 Gallon Water Truck	1	4	HR	\$ 32.73	\$ 130.92			
Ingersoll Rand 10k Forklift	1	8	HR	\$ 57.16	\$ 457.28			
Transport Truck & Trailer	1	8	HR	\$ 81.57	\$ 652.56			

Crew, & Equipment Daily Rate: \$ 5,510.60

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

	<u>Unit</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>
Install/Test/Operation/Remove FMP for 18-inch ACP Pipe Investigation	Days	4	\$ 5,510.60	\$ 22,042.40
ACP INVESTIGATION ACTIVITY WORK				
Pro-Pipe Camera Truck	Nights	2	\$ 1,480.00	\$ 2,960.00
Pro-Pipe Cutter Truck	Nights	2	\$ 1,320.00	\$ 2,640.00
Pump Watch Labor	Days	1	\$ 2,192.00	\$ 2,192.00
6" CD150M Pump Rental (3 each)	Days	3	\$ 825.00	\$ 2,475.00
Pipe, Fittings, Manifold, Valve Rental	Days	3	\$ 570.00	\$ 1,710.00
Water Ramp Rental from Water Movers	LS	1	\$ 2,038.66	\$ 2,038.66
Fuel for Pumps	Gal	61.2	\$ 3.97	\$ 242.96
12"-24" Flow Thru Plug	EA	2	\$ 1,219.00	\$ 2,438.00
15"-30" Flow Thru Plug	EA	2	\$ 1,965.00	\$ 3,930.00
100' Pneumatic Inflation Hose Lines	EA	2	\$ 417.00	\$ 834.00
3/8" Hydraulic Hose Lines	LS	1	\$ 193.98	\$ 193.98
Pipe Threaded End for Flow Thru Plug	LS	1	\$ 14.82	\$ 14.82
Flow Thru Plug Safety Cable Line	EA	2	\$ 210.00	\$ 420.00

LINE ITEM # 1 TOTAL COST \$44,131.82
EA 1.00
UNIT COST \$ 44,131.82

Item

Description

2

Mobilization & Demobilization of FMP Equipment to Project Site

<u>EQUIPMENT</u>	<u>QTY</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>
6" CD150M Pumps	3	EA	\$ 125.00	\$ 375.00
Ingersoll Rand Reach Forklift	1	EA	\$ 250.00	\$ 250.00
CAT 420E Backhoe	1	EA	\$ 250.00	\$ 250.00
HDPE Pipe Delivery	2	EA	\$ 250.00	\$ 500.00
Fusing Machine, Fittings, Vavles, Manifolds, Etc.	2	EA	\$ 250.00	\$ 500.00

Mobilization Cost \$ 1,875.00
2 Trips for Mob/Demob \$ 3,750.00

LINE ITEM # 2 TOTAL COST \$ 3,750.00

LUMP SUM TOTAL FOR ACP INVESTIGATION \$ 47,881.82

PCRWRD - NORTH RILLITO INTERCEPTOR REHABILITATION PROJECT - 3NRI14

POT HOLING FOR UTILITY CONFLICTS

LABOR/MATERIAL/EQUIPMENT BREAKDOWN

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: (623) 582-3781

Date: 9/3/2014

Item Description
 1 Pot Hole Existing Utilities in Areas where New Manholes ar Proposed for Installation

<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>
							0.32	
Foremen	1	8	HR	\$ 42.24	\$ 337.92	\$ 32.00	\$ 10.24	\$ 42.24
Laborer	3	8	HR	\$ 29.04	\$ 696.96	\$ 22.00	\$ 7.04	\$ 29.04
<u>EQUIPMENT</u>	<u>QTY</u>	<u>Hours</u>	<u>Unit</u>	<u>Price</u>	<u>TOTAL</u>			
Crew Trucks	1	8	DAY	\$ 28.89	\$ 231.12			
Ditch Witch FX30 Vacuum Excavator	1	8	HR	\$ 25.94	\$ 207.52			
Pneumatic Chippers & Jackhammers	1	8	HR	\$ 1.12	\$ 8.96			
185 CFM Compressor	1	8	HR	\$ 18.96	\$ 151.68			

Crew, & Equipment Daily Rate: \$ 1,634.16

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

	<u>Unit</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>
Pot Hole Existing Utilities in Areas where New Manholes ar Proposed for Installation	Day	6	\$ 1,634.16	\$ 9,804.96

VENDORS/MATERIALS/SUBS

Asphalt Replacement	Tons	2	\$ 55.00	\$ 110.00
Shortload Fee	EA	1	\$ 125.00	\$ 125.00

LINE ITEM #	1	TOTAL COST	\$10,039.96
		EA	1.00
		UNIT COST	\$ 10,039.96

North Rillito Interceptor Rehabilitation Project - Design Phase Services

EXHIBIT 2 - Design Phase Services Fee Schedule

PCRWRD Project No. 3NRI14



B&F CONTRACTING, INC.

11011 N. 23rd Avenue

Phoenix, AZ 85029

Office: (623) 582-1170 / Fax: (480) 940-4576

9/3/2014

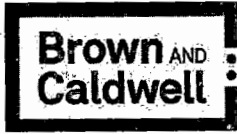
Designation	ITEM DESCRIPTION	DIRECT RATE	LABOR BURDEN	TOTAL COST
PD	PROJECT DIRECTOR (TOM FOLEY)	\$ 84.13	45.00%	\$ 121.99
DE	DESIGN ENGINEER (MARK POPPE) (BROWN & CALDWELL)	\$ 167.00		\$ 167.00
PM	PROJECT MANAGER (DAN FOLEY)	\$ 56.73	45.00%	\$ 82.26
PS	PROJECT SUPERINTENDENT (BRIAN VOLLMER)	\$ 60.09	45.00%	\$ 87.13
PE	PROJECT ENGINEER (KYLE FOLEY)	\$ 40.86	45.00%	\$ 59.25
FMPS	FMP SUPERINTENDENT (JEFF ALEXANDER)	\$ 48.07	45.00%	\$ 69.70
PA	PROJECT ADMINISTRATOR (LETICIA RODARTE)	\$ 28.00	45.00%	\$ 40.60
SM	SAFETY MANAGER (JEFF NORDSTRAND)	\$ 52.88	45.00%	\$ 76.68
SE	SENIOR ESTIMATOR (JERRY HINE)	\$ 43.26	45.00%	\$ 62.73

Notes: Rates are not inclusive of sales tax
 Labor Burden includes (health care, training, vacation, work vehicle, phone, computer, FICA, FUTA, SUTA & Workers Comp)

MH Inspection & Assessment and TCE
Coordination Proposal

333 E. Wetmore Rd., Ste. 165
Tucson, Arizona 85705
Tel: 520-624-5744
Fax: 520-791-2738
www.browncaldwell.com

April 16, 2014



Mr. Dan Foley
Project Manager
B&F Contracting, Inc.
1908 West Prince Road
Tucson, Arizona 85705

Subject: Proposal for North Rillito Interceptor (NRI) Rehabilitation Project
Engineering Support Services

Dear Mr. Foley:

Brown and Caldwell (BC) is pleased to submit this proposal for Engineering Support Services for the NRI Rehabilitation Project.

Background

Pima County Regional Wastewater Reclamation Department (PCRWRD) has an active pipeline inspection program as part of their Capacity Management, Operations and Maintenance program. Recent inspection of the NRI has revealed significant and active deterioration of the pipeline. PCRWRD would like to rehabilitate approximately 9.8 miles of pipeline using Cured in Place Pipe (CIPP) trenchless methods. The NRI consists of unlined and lined Asbestos-Cement Pipe and Reinforced Concrete Pipe ranging in diameter from 15 inches to 36 inches. B&F Contracting (B&F) is proposing to perform this rehabilitation in six (6) phases.

In order to rehabilitate the NRI pipeline, the following engineering support services have been requested to be performed by BC:

- Provide manhole inspection, condition assessment, and rehabilitation recommendations for manholes in Phases 1 through 6.
- Provide coordination support for construction easements within Phases 1 and 2.

Scope of Services

The following tasks will be added to the ongoing NRI rehabilitation project by amending the current contract. The contract terms and conditions will remain unchanged.

Task 003 – Manhole Inspections and Rehabilitation Recommendations

BC will perform manhole inspections on approximately 112 manholes within the limits of the NRI rehabilitation project (Phases 1 through 6). The intent of these manhole inspections is to determine if the existing structures are suitable for rehabilitation with an approved epoxy coating system or if the structure is in such poor condition that replacement is recommended. In addition, BC will develop recommendations for additional repair work to manholes as part of the inspection. Manhole inspections will consist of street-level at-grade visual inspections with no confined space entry. BC will utilize a retractable pole with a “scratcher” and “hammer” attachment to determine concrete softness within the manhole structure without having to enter the structure. The depth from manhole rim to invert(s) will be measured with a survey rod, with an accuracy of +/- 2 inches, and documented. It is assumed that all manholes will be rehabilitated or replaced and therefore a full Manhole Assessment Certification Program (MACP) inspection and documentation is not required. The manhole repair, rehabilitation and replacement recommendations, and manhole depth will be summarized in a Microsoft Excel spreadsheet for use in bidding the CIPP work.

Assumptions:

- BC will provide a two (2) person crew to perform manhole inspections.
- B&F will escort BC crew during manhole inspections and provide access and traffic control during inspections. Permission to access private property will be arranged by B&F/PCRWRD prior to manhole inspections.
- Manhole inspection data coding will be compliant with NASSCO MACP, but focused on defects requiring repair and determining if rehabilitation or replacement is required. Manhole inspection forms will be customized for the intent of this inspection and not include full NASSCO MACP inspection form data.
- It is assumed that 15 to 20 manholes can be inspected per eight (8) hour work day.
- PCRWRD will provide manhole asset numbering to be used in the Excel spreadsheet.

Deliverables:

- Excel spreadsheet with manhole assessment and recommendations for defect repairs, rehabilitation and/or replacement.

Task 004 – Construction Easement Project Coordination

BC will coordinate with B&F, PCRWRD, Pima County Regional Flood Control District (PCRFGD), private property owners, and B&F's surveyor developing legal descriptions when temporary construction easements are required. It is anticipated that there will be an estimated eleven (11) temporary construction easements required for access and bypass route use in Phases 1 and 2. BC will attend meetings and site walks to define easement locations and dimensions, and attend meetings with property owners to discuss easement locations. This scope of services includes two (2) site walks to discuss temporary construction easements with property owners, and two (2) meetings to finalize legal descriptions with B&F, PCRWRD, PCRFGD, and the surveyor. Once property owners agree to the proposed easement locations, BC will coordinate with the surveyor to develop legal descriptions sealed by a Registered Land Surveyor. The legal descriptions will be delivered to Pima County Real Property for their use in negotiating with private property owners and obtaining construction easements. Surveyor legal description development is excluded from this scope of services and will be a separate contract between B&F and the surveyor. Due to the unknown effort in coordinating with private property owners, the

Mr. Dan Foley
B&F Contracting, Inc.
April 16, 2014
Page 3

estimated fee to perform this work will be billed on a time-and-materials basis. If it is determined that more effort will be required, BC will send notice to B&F that the allocated budget is exhausted and additional budget may be required. Any unused budget will not be billed.

Schedule

The scope of services is based on the following assumed schedule/milestones. Should the Notice to Proceed date change, subsequent milestones will be adjusted accordingly with incremental times between milestones to remain similar.

- Notice to Proceed.
- Schedule for the manhole inspection of Phases 1 through 6 is not expected to exceed one (1) calendar month after Notice to Proceed.
- Schedule for the other tasks is not expected to exceed two (2) months after Notice to Proceed.

Compensation

BC will perform the services described above on a time-and-materials basis per Exhibit A in the not to exceed amount of \$33,642 bringing the total contract budget up to \$83,617. These fees are based on the scope of services and assumptions described herein and the following additional assumptions:

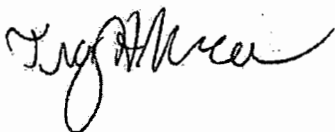
- BC will not be responsible for manhole inspections that are not accessible due to lack of property access, buried structures, welded or locked manhole covers, etc.

Any requested activity outside of this scope of services can be performed on a time-and-materials basis in accordance with our standard rate schedule (Exhibit B). BC will obtain authorization from B&F prior to performing work outside of the scope of services defined herein.

BC appreciates the opportunity to provide this proposal to B&F and is looking forward to working with you on this important project. If you have questions regarding this proposal, please call Mr. Mark Poppe at 520-918-2314.

Very truly yours,

Brown and Caldwell, Inc.



for:

Ronald L. Ablin, P.E.
Vice President



Mark A. Poppe, P.E.
Project Manager

RLA:MAP:sjw

Attachments:

- Exhibit A – Compensation
- Exhibit B – BC Standard Rate Schedule

**Exhibit A
Compensation**

Exhibit A - Compensation

BEP Contracting, Inc. - Pinellas County NRE Rehabilitation														
		Hourly Rate	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Total Expense Cost	Total Expense Effort	Total Effort
		\$167.00	\$126.00	\$189.00	\$126.00									
003	MH Inspec / Assessment	80	2	6	80	168	24,826	500	500	300	300	500	800	25,626
004	TCE Coordination 1&2	48	0	0	0	48	8,016	0	0	0	0	0	0	8,016
GRAND TOTAL		128	2	6	80	216	32,842	500	500	300	300	500	800	33,642

Hours and Dollars are rounded to nearest whole number. To display decimals, change the format of the cells.

Exhibit B
BC Standard Rate Schedule

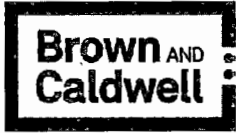
EXHIBIT B - NEGOTIATED QUALIFIED CONSULTANT LIST RATE SCHEDULE
Labor Classifications and Hourly Rates with Pima County 2008.

Level	Discipline / Classification			Average Direct Labor Rate	Overhead %	Profit %	Billing Rate
	Engineering	Technical/Scientific	Administrative				
A			Office/Support Services I	\$18.70	186.89%	10%	\$59
B	Drafter Trainee	Field Service Technician I	Word Processor I, Office/Support Services II	\$22.50	186.89%	10%	\$71
C	Assistant Drafter	Field Service Technician II	Word Processor II, Office/Support Services III	\$25.35	186.89%	10%	\$80
D	Drafter, Engineering Aide, Inspection Aide	Field Service Technician III	Accountant I, Project Coordinator I, Word Processor III, Office/Support Services IV	\$28.84	186.89%	10%	\$91
E	Engineer I, Senior Drafter, Senior Illustrator, Inspector I	Geologist I, Hydrogeologist I, Scientist I, Senior Field Service Technician	Accountant II, Project Coordinator II, Word Processor IV	\$33.91	186.89%	10%	\$107
F	Engineer II, Inspector II, Lead Drafter, Lead Illustrator	Geologist II, Hydrogeologist II, Scientist II	Accountant III, Area Business Operations Manager, Technical Writer, Word Processing Supervisor	\$39.93	186.89%	10%	\$126
G	Engineer III, Inspector III, Senior Designer, Supervising Drafter, Supervising Illustrator	Geologist III, Hydrogeologist III, Scientist III	Accountant IV, Administrative Manager	\$46.90	186.89%	10%	\$148
H	Senior Engineer, Principal Designer, Senior Construction Engineer, Senior Engineer	Senior Geologist, Senior Hydrogeologist, Senior Scientist	Senior Technical Writer	\$52.92	186.89%	10%	\$167
I	Principal Engineer, Principal Construction Engineer, Supervising Designer	Principal Geologist, Principal Hydrogeologist, Principal Scientist	Corporate Contract Administrator	\$59.89	186.89%	10%	\$189
J	Supervising Engineer Supervising Construction Engineer	Supervising Geologist, Supervising Hydrogeologist, Supervising Scientist	Assistant Controller	\$62.11	186.89%	10%	\$196
K	Managing Engineer	Managing Geologist, Managing Hydrogeologist, Managing Scientist	Area Business Operations Manager IV	\$69.40	186.89%	10%	\$219
L	Chief Engineer Executive Engineer	Chief Geologist, Chief Hydrogeologist, Chief Scientist	Corporate Marketing Communications Manager	\$74.78	186.89%	10%	\$236
M	Vice President			\$79.85	186.89%	10%	\$252
N	Senior Vice President			\$83.66	186.89%	10%	\$264

333 E. Wetmore Rd., Ste. 165
Tucson, Arizona 85705
Tel: 520-624-5744
Fax: 520-791-2738
www.browncaldwell.com

Flow Management Plan
Assistance Quote

June 10, 2014



Mr. Dan Foley
Project Manager
B&F Contracting, Inc.
1908 West Prince Road
Tucson, Arizona 85705

Subject: Proposal for North Rillito Interceptor (NRI) Rehabilitation Engineering Support Services – Flow Management Plans Phases 3 through 6

Dear Mr. Foley:

Brown and Caldwell (BC) is pleased to submit this proposal for Engineering Support Services for developing Flow Management Plans for Phases 3 through 6 of the NRI Rehabilitation Project.

Background

Pima County Regional Wastewater Reclamation Department (PCRWRD) has an active pipeline inspection program as part of their Capacity Management, Operations, and Maintenance (CMOM) program. Recent inspection of the NRI has revealed significant and active deterioration of the pipeline. Pima County would like to rehabilitate approximately 9.8 miles of pipeline using CIPP trenchless methods. The NRI consists of unlined and lined Asbestos-Cement Pipe (ACP) and Reinforced Concrete Pipe (RCP) ranging in diameter from 15-inches to 36-inches.

In order to rehabilitate the NRI pipeline, the following engineering support services have been requested to be performed by BC:

- Provide CAD drafting services for Flow Management Plan (FMP) drawings, review hydraulic calculations, and sign and seal FMPs for Phases 3 through 6.

Scope of Work

Phase 005 – Flow Management Plan (FMP) Assistance

BC will coordinate with B&F for development of the FMPs. BC's responsibility of the FMP will be limited to performing CAD drafting services for required drawings, review of hydraulic calculations performed by B&F, and reviewing the developed FMPs. Upon completion of the FMP review, BC will sign and seal the plan as required by the PCRWRD Standard Specifications and Details, 2012 Edition.

Drafting Services

CAD services will utilize redlines developed by B&F and does not include design effort. The number of drawings that will be drafted was estimated using the following assumptions:

- Drawings are to be at a scale of 1" = 100' instead of 1" = 40' as specified by the PCRWRD FMP requirements for the main bypass piping. Based on Phases 3 through 6 of the bypass, it is assumed there will be approximately 26 drawings sheets for the main bypass.
- Lateral bypass reaches, pumping setups, and other miscellaneous details will be developed at 1" = 100', if required. It is assumed there will be up to 8 additional sheets.

Review of Hydraulic Calculations

BC will review B&F hydraulic calculations for the FMP for the main bypass and lateral bypass pumping setups proposed by B&F for Phases 3 through 6 of this project. Updates to calculations will be performed by B&F. B&F will include background, data, and assumptions with the calculations for review.

Review of FMP

BC will review the B&F developed FMP as a quality control measure and sign and seal the finished product for submittal to PCRWRD for approval. Updates must be performed to the satisfaction of BC in order to allow the FMP to be signed and sealed by BC.

Assumptions:

- No survey will be performed by BC for development of the FMP pipeline routes or development of the hydraulic calculations.
- The FMP will be developed, formatted, and reproduced by B&F.
- B&F will provide BC templates for CAD drawings.
- CAD effort is limited to 120 hours for development of FMP drawings. Additional CAD effort would be considered out of scope.
- B&F/PCRWRD will provide GIS, aerial, and parcel linework in AutoCAD format for use in development of the FMP drawings. It is assumed that aerial resolution from the PCRWRD GIS system is sufficient for the FMP drawings and that topographical information is not required.
- No sub-surface utility investigation or utility base map research will be performed by BC.
- Subsurface utility locating (potholing) will be performed by B&F if necessary.

Deliverables:

- Drafting of up to 34 drawing sheets for the FMP. Drawings will be delivered electronically in CAD and PDF format for B&F use. Two (2) full-size 24" x 36" hardcopies are included in the scope of work for submittal to PCRWRD.
- Review of hydraulic calculations with comments in sufficient detail to address issues identified.
- BC review comments of draft FMP.
- Sign and Seal final FMP.

Mr. Dan Foley
B&F Contracting, Inc.
June 10, 2014
Page 3

Schedule

The Scope of Services is based on the following assumed schedule/milestones. Should the Notice to Proceed date change, subsequent milestones will be adjusted accordingly with incremental times between milestones to remain similar.

- Notice to Proceed.
- Schedule for the design phase engineering support services is not expected to exceed 4 calendar months after Notice to Proceed.

Compensation

BC will perform the services described above on a time and materials basis per Exhibit A in the not to exceed amount of \$38,474. These fees are based on the Scope of Services and assumptions described herein and the following additional assumptions:

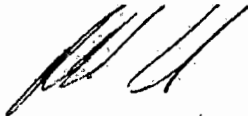
- BC will not be responsible for unreasonable delays due to the lack of requested materials or responses.

Requested activity outside of this Scope of Services can be performed on a time and materials basis in accordance with our standard rate schedule (Exhibit B). BC will obtain authorization from B&F prior to performing work outside of the Scope of Services defined herein.

BC appreciates the opportunity to provide this proposal to B&F and is looking forward to working with you on this important project. If you have questions regarding this proposal, please call Mr. Mark Poppe at 520-918-2314.

Very truly yours,

Brown and Caldwell, Inc.



Ronald L. Ablin, P.E.
Vice President



Mark A. Poppe, P.E.
Project Manager

RLA:MAP:sjw

Attachments:

- Exhibit A – Compensation
- Exhibit B – BC Standard Rate Schedule

Exhibit A Compensation

Pima County of (AZ) - NRI Rehabilitation - Band F											
State	Agency Description	Position	Pay Grade	Rate	Hours	Rate	Rate	Total ODCs	Total Expense Cost	Total Expense Effort	Total Effort

\$167.00 \$219.00 \$126.00

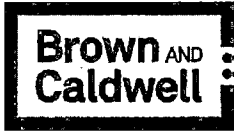
005	FMP PH 3-6 Support	120	6	120	246	36,474	2,000	2,000	2,000	2,000	38,474
GRAND TOTAL		120	6	120	246	132,051	2,000	2,000	2,000	2,000	38,474

EXHIBIT B - NEGOTIATED QUALIFIED CONSULTANT LIST RATE SCHEDULE
Labor Classifications and Hourly Rates with Pima County 2008

Level	Discipline / Classification			Average Direct Labor Rate	Overhead %	Profit %	Billing Rate
	Engineering	Technical/Scientific	Administrative				
A			Office/Support Services I	\$18.70	186.89%	10%	\$59
B	Drafter Trainee	Field Service Technician I	Word Processor I, Office/Support Services II	\$22.50	186.89%	10%	\$71
C	Assistant Drafter	Field Service Technician II	Word Processor II, Office/Support Services III	\$25.35	186.89%	10%	\$80
D	Drafter, Engineering Aide, Inspection Aide	Field Service Technician III	Accountant I, Project Coordinator I, Word Processor III, Office/Support Services IV	\$28.84	186.89%	10%	\$91
E	Engineer I, Senior Drafter, Senior Illustrator, Inspector I	Geologist I, Hydrogeologist I, Scientist I, Senior Field Service Technician	Accountant II Project Coordinator II Word Processor IV	\$33.91	186.89%	10%	\$107
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H	Senior Engineer, Principal Designer, Senior Construction Engineer, Senior Engineer	Senior Geologist, Senior Hydrogeologist, Senior Scientist	Senior Technical Writer	\$52.92	186.89%	10%	\$167
I	Principal Engineer, Principal Construction Engineer, Supervising Designer	Principal Geologist, Principal Hydrogeologist, Principal Scientist	Corporate Contract Administrator	\$59.89	186.89%	10%	\$189
J	Supervising Engineer Supervising Construction Engineer	Supervising Geologist, Supervising Hydrogeologist, Supervising Scientist	Assistant Controller	\$62.11	186.89%	10%	\$196
K	Managing Engineer	Managing Geologist, Managing Hydrogeologist, Managing Scientist	Area Business Operations Manager IV	\$69.40	186.89%	10%	\$219
L	Chief Engineer Executive Engineer	Chief Geologist, Chief Hydrogeologist, Chief Scientist	Corporate Marketing Communications Manager	\$74.78	186.89%	10%	\$236
M	Vice President			\$79.85	186.89%	10%	\$252
N	Senior Vice President			\$83.66	186.89%	10%	\$264

333 E. Wetmore Rd., Ste. 165
Tucson, Arizona 85705
Tel: 520-624-5744
Fax: 520-791-2738
www.browncaldwell.com

June 10, 2014



Mr. Dan Foley
Project Manager
B&F Contracting, Inc.
1908 West Prince Road
Tucson, Arizona 85705

Subject: Proposal for North Rillito Interceptor (NRI) Rehabilitation Project
Phase 1 through 6 Structural Design Support Services

Dear Mr. Foley:

Brown and Caldwell (BC) is pleased to submit this proposal for Structural Design Support Services for Phases 1 through 6 of the NRI Rehabilitation Project.

Background

Pima County Regional Wastewater Reclamation Department (PCRWRD) has an active pipeline inspection program as part of their Capacity Management, Operations and Maintenance program. Recent inspection of the NRI has revealed significant and active deterioration of the pipeline. PCRWRD would like to rehabilitate approximately 9.8 miles of pipeline using Cured in Place Pipe (CIPP) trenchless methods. The NRI consists of unlined and lined Asbestos-Cement Pipe and Reinforced Concrete Pipe ranging in diameter from 15 inches to 36 inches. B&F Contracting (B&F) is proposing to perform this rehabilitation in six (6) phases.

In order to rehabilitate the NRI pipeline, structural design support services have been requested to be performed by BC for Phases 1 through 6 of construction.

Scope of Services

The following task will be added to the ongoing NRI rehabilitation project by amending the current contract. The contract terms and conditions will remain unchanged.

Task 006 – Design of NRI Rehabilitation Manhole Structures

BC will develop plans and specifications to replace existing manholes recommended for replacement, manholes identified by PCRWRD for replacement due to turbulence or significant horizontal flow direction changes, and work with B&F to determine locations for new manholes to accommodate flow management and CIPP installation. Replacement and new manholes will utilize PCRWRD Standard Details and Specifications, 2012 Edition, as applicable. It is assumed that customized manhole bases will be required to be built around the existing pipeline for both replacement

and new manholes. It may be possible to salvage the manhole base in some locations depending on manhole base condition, access to the pipeline, and size of replacement manhole desired. In these cases, only replacement of the manhole barrels, cone, frame and cover would be required.

BC will design up to twenty (20) manholes for either replacement (reconstruction of existing manholes) or new manholes, and replacement precast lids for the Tanque Verde Creek inlet and outlet siphon structures. Additional design for realignments of sewer pipelines and other design work is not included in this scope of services. For the locations of the new manholes or replacement manholes that are being upsized, a subsurface utility investigation will be required. All subsurface utility investigations are excluded from this scope of services. Design effort due to utility conflicts that require utility relocation is excluded from this scope of services.

Assumptions:

- BC will develop up to ten (10) drawing sheets for replacement and new manholes (including general notes and details), and the following specifications:
 - Manholes
 - Cast-in-Place Concrete
 - Reinforcement
 - Coatings
- Drawings and specifications developed for addressing replacing and constructing new manholes will need to be integrated into the CIPP drawings and specifications (by PCRWRD). BC will work with PCRWRD on format and numbering of drawings and specifications.
- There is not a geotechnical investigation included as part of this work. It will be assumed a conservative allowable bearing pressure of 1,500 pounds per square foot for manhole base design.
- Survey for new manholes will not be required. New manholes will be shown relative to the closest existing manhole without utilizing survey or referencing existing benchmarks. Depth of manhole shown on drawings will be approximate and will be built up to existing grade.
- Arizona Department of Environmental Quality Construction Authorizations for new manholes will be required and is not included in this scope of services.
- Subsurface utility locating (potholing) will be performed by B&F if necessary.
- There will be one (1) review meeting after the draft submittal of the drawings and specifications.

Deliverables:

- Draft submittal of drawings and specifications for review and comment.
 - Electronic PDF of drawings and specifications.
- Review meeting minutes and responses to PCRWRD review comments.
- Final submittal of drawings and specifications for PCRWRD to incorporate into CIPP design.
 - One full-size signed and sealed hard copy of drawings
 - One signed and sealed hard copy of specifications
 - One electronic copy (PDF format) of drawings and specifications.

Mr. Dan Foley
B&F Contracting, Inc.
June 10, 2014
Page 3

Schedule

The scope of services is based on the following assumed schedule/milestones. Should the Notice to Proceed date change, subsequent milestones will be adjusted accordingly with incremental times between milestones to remain similar.

- Notice to Proceed.
- Schedule for structural design services task is not expected to exceed four (4) months after Notice to Proceed.

Compensation

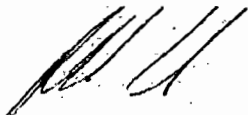
BC will perform the services described above on a time-and-materials basis per Exhibit A in the not to exceed amount of \$46,974. These fees are based on the scope of services and assumptions described herein.

Any requested activity outside of this scope of services can be performed on a time-and-materials basis in accordance with our standard rate schedule (Exhibit B). BC will obtain authorization from B&F prior to performing work outside of the scope of services defined herein.

BC appreciates the opportunity to provide this proposal to B&F and is looking forward to working with you on this important project. If you have questions regarding this proposal, please call Mr. Mark Poppe at 520-918-2314.

Very truly yours,

Brown and Caldwell, Inc.



Ronald L. Ablin, P.E.
Vice President



Mark A. Poppe, P.E.
Project Manager

RLA:MAP:sjw

Attachments:

- Exhibit A – Compensation
- Exhibit B – BC Standard Rate Schedule

Exhibit A - Compensation

B&B Contracting, Inc. - Perry County NH Rehabilitation														
										Personnel	Total FTEs	Total Expense Cost	Total Expense Effect	Total Effect

006	Design MH Structures Phases 1-6	72	4	12	96	96	4	284	46,724	250	250	250	250	46,974
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GRAND TOTAL		72	4	12	96	96	4	284	46,724	250	250	250	250	46,974
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EXHIBIT B - NEGOTIATED QUALIFIED CONSULTANT LIST RATE SCHEDULE
 Labor Classifications and Hourly Rates with Pima County 2008

Level	Discipline / Classification			Average Direct Labor Rate	Overhead %	Profit %	Billing Rate
	Engineering	Technical/Scientific	Administrative				
A			Office/Support Services I	\$18.70	186.89%	10%	\$59
B	Drafter Trainee	Field Service Technician I	Word Processor I, Office/Support Services II	\$22.50	186.89%	10%	\$71
C	Assistant Drafter	Field Service Technician II	Word Processor II, Office/Support Services III	\$25.35	186.89%	10%	\$80
D	Drafter, Engineering Aide, Inspection Aide	Field Service Technician III	Accountant I, Project Coordinator I, Word Processor III, Office/Support Services IV	\$28.84	186.89%	10%	\$91
E	Engineer I, Senior Drafter, Senior Illustrator, Inspector I	Geologist I, Hydrogeologist I, Scientist I, Senior Field Service Technician	Accountant II, Project Coordinator II, Word Processor IV	\$33.91	186.89%	10%	\$107
F	Engineer II, Inspector II, Lead Drafter, Lead Illustrator	Geologist II, Hydrogeologist II, Scientist II	Accountant III, Area Business Operations Manager, Technical Writer, Word Processing Supervisor	\$39.93	186.89%	10%	\$126
G	Engineer III, Inspector III, Senior Designer, Supervising Drafter, Supervising Illustrator	Geologist III, Hydrogeologist III, Scientist III	Accountant IV, Administrative Manager	\$46.90	186.89%	10%	\$148
H	Senior Engineer, Principal Designer, Senior Construction Engineer, Senior Engineer	Senior Geologist, Senior Hydrogeologist, Senior Scientist	Senior Technical Writer	\$52.92	186.89%	10%	\$167
I	Principal Engineer, Principal Construction Engineer, Supervising Designer	Principal Geologist, Principal Hydrogeologist, Principal Scientist	Corporate Contract Administrator	\$59.89	186.89%	10%	\$189
J	Supervising Engineer, Supervising Construction Engineer	Supervising Geologist, Supervising Hydrogeologist, Supervising Scientist	Assistant Controller	\$62.11	186.89%	10%	\$196
K	Managing Engineer	Managing Geologist, Managing Hydrogeologist, Managing Scientist	Area Business Operations Manager IV	\$69.40	186.89%	10%	\$219
L	Chief Engineer, Executive Engineer	Chief Geologist, Chief Hydrogeologist, Chief Scientist	Corporate Marketing Communications Manager	\$74.78	186.89%	10%	\$236
M	Vice President			\$79.85	186.89%	10%	\$252
N	Senior Vice President			\$83.66	186.89%	10%	\$264

PSOMAS - Survey, TCE, Legal Descriptions and utility map services \$79,440.00
--

North Rillito Interceptor Sewer Project
#7BCA130101

Survey Scope

1) Easement and Right of Way Acquisition

- a. **Legal Descriptions:** Psomas will prepare legal descriptions for the acquisition of temporary construction easements for the bypass sewer line and connectors. The number of legal descriptions is estimated to be 60 but may vary depending on the number of TCE's required. Title reports may be required for the subject parcels to verify the vesting deed and determine the location of existing easements. Pima County Regional Wastewater Reclamation Department (PCRWRD) is responsible for providing all documentation of the existing sewer easements and parcel ownership.
- b. **Plot Plans:** All legal descriptions will include a depiction of the easement and pipeline location in accordance with the PCRWRD guidelines and the Pima County Roadway Design Manual.

2) Contingency Field Survey

- a. **Supplemental Boundary Survey:** Psomas will provide office research and field survey work to support the creation of legal descriptions in cases where ambiguity exists between the parcel deed and the current sewer easement description. The Project Surveyor will notify the Project Manager of the discrepancy and discuss possible resolution methods prior to initiating any field work. Psomas has allocated 40 hours of field survey time for this task.
- b. **As-needed Survey:** Psomas will provide 40 hours of field survey work on an as-needed basis to respond to requests from the Project Manager.

3) New Manhole and Bypass Pipeline Locations Sub-surface Utility Investigation

- a. **New Manhole Locations:** Psomas will initiate a sub-surface utility location request through the Arizona Bluestake E-Stake system for approximately 10 sites to be determined, for the installation of new manhole structures. The sites will be outlined prior to the request to facilitate the locators. Once marked the utility locations will be surveyed and processed into a CAD drawing. Psomas will also request plans from the utilities to verify the presence of utility lines within the proposed structure location.
- b. **Roadway Crossings:** Psomas will initiate a sub-surface utility location request through the Arizona Bluestake E-Stake system for approximately 20 roadway crossing locations. Sub-surface utility location would ideally occur just prior to the trenching and pipe installation to avoid duplication of the Bluestake

marking. All markings will be surveyed and delivered in CAD format, as outlined above.

All survey work will be performed under the direction of an Arizona Registered Land Surveyor. All field notes, computations, descriptions, etc. will be submitted as a Survey report.

Exclusions:

- 1) No Right of Way or boundary survey work which would require the establishment of monuments or filing of a Record of Survey is included in this scope.

Psomas
Project Fee Estimate / Authorized Task List

Project Number: 7BCA130101
Project Name: North Rillito Interceptor Sewer Survey
Project Manager: P. McGarity
Date: 12/3/2013

BLI No.	Design Description	Project Principal \$ 195 / Hr.		Project Manager \$ 160 / Hr.		Sr. Engineer \$ 125 / Hr.		Survey Manager \$ 145 / Hr.		Project Surveyor \$ 135 / Hr.		2-Man Survey \$ 145 / Hr.		Administration \$ 70 / Hr.		Intern \$ 55 / Hr.		Survey Tech \$ 75 / Hr.		Psomas Task Total	Subconsultants Amount	Task Total	
		Hrs.	Amount	Hrs.	Amount	Hrs.	Amount	Hrs.	Amount	Hrs.	Amount	Hrs.	Amount	Hrs.	Amount	Hrs.	Amount	Hrs.	Amount				
1011	Project Administration																						
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			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -	\$ -
	Total Project Administration		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		4	\$ 280		\$ -		\$ -	\$ 280	\$ -	\$ 280
3.09	Pre-design Survey & Mapping																						
	Legal Descriptions		\$ -		\$ -		\$ -		\$ -	200	\$ 27,000		\$ -		\$ -		\$ -	240	\$ 18,000	\$ 45,000	\$ -	\$ 45,000	
	Supplemental Boundary Survey		\$ -		\$ -		\$ -		\$ -	4	\$ 540	40	\$ 5,800		\$ -		\$ -	8	\$ 600	\$ 6,940	\$ -	\$ 6,940	
	Engineering Design Support		\$ -		\$ -		\$ -		\$ -	4	\$ 540	40	\$ 5,800		\$ -		\$ -	4	\$ 300	\$ 6,640	\$ -	\$ 6,640	
	Bluestake & Utility Coordination		\$ -		\$ -		\$ -		\$ -	8	\$ 1,080	120	\$ 17,400		\$ -		\$ -	28	\$ 2,100	\$ 20,580	\$ -	\$ 20,580	
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	Total Pre-design Survey & Mapping		\$ -		\$ -		\$ -		\$ -	216	\$ 29,160	200	\$ 29,000		\$ -		\$ -	280	\$ 21,000	\$ 79,160	\$ -	\$ 79,160	
Proposal Total			\$ -		\$ -		\$ -		\$ -	216	\$ 29,160	200	\$ 29,000	4	\$ 280		\$ -	280	\$ 21,000	\$ 79,440	\$ -	\$ 79,440	

Total Labor Costs Psomas \$ 79,440
Total Subconsultants \$ -

Environmental Consulting Services
Native Plant Preservation Planning
\$74,504.00



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TEMPE · AZ · 480-744-5688
SAN RAMON · CA · 408-221-4800
PORTLAND · OR · 503-752-1136
FREELAND · WA · 877-623-4384

2 April 2014

Dan Foley, Sewer Rehabilitation Division
B&F Contracting, Inc.
1908 W. Prince Rd.
Tucson, Arizona 85705

Subject: Harris Environmental Rates for Environmental Services, North Rillito Interceptor Rehabilitation Project, PN 3NRI14

Dear Mr. Foley,

We appreciate the opportunity to provide you with environmental services for the sewer improvement project. Our billing rates for those who would potentially be involved in the project are as follows:

Biologist V	\$90.25
Biologist II	\$54.97
GIS Manager	\$94.36
GIS Analyst	\$84.10
Principal Investigator	\$126.49
Administrative III	\$48.14

The project manager for the environmental services will be Daniel Bunting. His billing rate for all associated meetings, fieldwork, and reporting is \$90.25.

We look forward to working with you on this project. Please contact me at 520.628.7648 or via email at dbunting@heg-inc.com should you have any questions.

Thank you,

Daniel Bunting
Project Manager
Harris Environmental Group, Inc.
650 N. 6th Avenue
Tucson, Arizona 85705

B&F Estimated Costs Based on Hourly Rates

Biologist V	360 Hours	\$32,490.00
Biologist II	360 Hours	\$19,789.20
GIS Manager	80 Hours	\$7,548.80
GIS Analyst	80 Hours	\$6,728.00
Principle Invest.	40 Hours	\$5,059.60
Administrative III	60 Hours	\$2,888.40

Total Estimated Cost: \$74,504.00

Repository Fee & Payment for
Cultural Resources.



ASM Repository Payments

Hello, Daniel Foley | [Logout](#)

0 ITEM(S) IN YOUR CART / TOTAL:\$0

Your Order #REPOS-1111

Thanks!

Arizona State Museum Repository
1013 E. University Blvd.
P.O. Box 210026
Tucson, AZ 85721-0026

Date Ordered: 5/21/2014

Order Number:: REPOS-1111

Billing Address

Daniel Foley
B&F Contracting, Inc.
3411 S. Siesta Lane
Tempe, AZ 85282 - US
520-840-9785
dfoley@bfcontracting.com

Payment Type: Online Credit Card

Item ID	FEES	PRICE	QTY	TOTAL
NEWREG	Registration Fee for New Projects	\$3,000.00	1	\$3,000.00
Subtotal:				\$3,000.00
Discount(s):				\$0.00
Taxes:				\$0.00
Shipping:				\$0.00
TOTAL:				\$3,000.00

Arizona State Museum Repository 1013 E. University Blvd. P.O. Box 210026 Tucson, AZ.
85721-0026 US 520-626-9109

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SWPPP Proposal

PROPOSAL NO.: 2014564
 DATE: 6/27/2014
 Proposal valid until: 7/27/2014

ATTN: Estimating Department
 B & F Contracting

North Rillito Interceptor Rehab Project - Tucson

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
1) SWPPP Manual, Plans	1) Provide the SWPPP Manual/Program in accordance with NPDES/AZPDES CGP 2) Includes a SWPPP Manual, Narrative, Plans (1 copy for each phase) 3) Includes initial review revisions if necessary This assumes 6 phases with individual NOI permits and SWPPP Manual/Plan	6	LS	\$3,000.00	\$18,000.00
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> 1 SWPPP x \$3,000 = \$3,000 </div>					
2) SWPPP Inspections	1) Provide SWPPP site inspections/reports performed by certified personnel. 2) All SWPPP Inspection Reports managed through a secure web based software. Client access available 24/7 with project specific login. 3) Maintain and modify all aspects of SWPPP Manual and SWPPP Plan 4) Maintain back up copy of all documents and SWPPP Manual for 3 years 5) Coordinate adjustments with Engineer and BMP Installation Contractor	1	per visit	\$500.00	TBD
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> 1 visit per month for 24 months = 24 x \$500 = \$12,000 </div>					
3) Project Initial Setup	1) Administrative setup and Project Coordination 2) Initial project meeting and site visits 3) Prepare NOI and NOT Application	1	LS	\$800.00	\$800.00
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> \$3,000 + \$12,000 + \$800 = \$15,800 </div>					

* All of the above quoted items will be completed in accordance with project specifications and 2013 NPDES/AZPDES CGP

CONDITIONS:

- 1) Access to Engineer's electronic files. (Drawings PDF format)
- 2) No Retention to be held
- 3) Additional Manuals \$100.00 EA
- 4) Inspection frequency every 14 days and rain events
- 5) **SWPPP Management or SWPPP Inspection item amount TBD upon project duration and any additional rain events**
- 6) Electronic copies of SWPPP not available

EXCLUSIONS:

- 1) Permits, Fines, Penalties, and any associated Fees
- 2) Sales Tax and Bond
- 3) Analytical Monitoring program/testing
- 4) SWPPP BMP materials, installation/maintenance
- 5) SPCC Plan
- 6) SWPPP/Construction schedule and sequencing plan to be provided and updated by others.



 Michael Ming
 Principal
 Argus Construction Services

Acceptance Signature _____
 Name: _____
 Title: _____
 Date: _____