

**CITY OF PEORIA, ARIZONA  
COUNCIL COMMUNICATION**

CC 17C  
Amend No \_\_\_\_\_

Date Prepared May 21, 2008

Council Meeting Date. June 17, 2008

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**TO** Terrence L. Ellis, City Manager  
**FROM** Stephen L. Bontrager, Utilities Director *[Signature]*  
**THROUGH** Shawn Kreuzwiesner, Engineering Manager *(sk)*  
**PREPARED BY** Leisa Burdine, Civil Engineer *LB*  
**SUBJECT** Approve Contract Amendment No 3 with Brooks Engineers & Surveyors, Inc for additional design services in association with the 24-inch water lines on 91<sup>st</sup> Avenue from Beardsley Road to Union Hills Drive and on Beardsley Road from 87<sup>th</sup> Avenue to Lake Pleasant Road, and authorize a budget transfer from the Water Contingency account Contract No LCON01705, Capital Improvement Projects UT00096 & UT00145, Solicitation No P05-0015

**RECOMMENDATION**

That Mayor and Council approve Contract Amendment No 3 with Brooks Engineering & Surveyors, Inc (BROOKS) in an amount not to exceed \$80,346 for additional design services on the 24-inch water lines on 91<sup>st</sup> Avenue from Beardsley Road to Union Hills Drive (UT00096) and on Beardsley Road from 87<sup>th</sup> Avenue to Lake Pleasant Road (UT00145) Staff also recommends a budget transfer from Water Contingency account 2050-2050-570000 in the amount of \$15,912 to Water Expansion account 2161-2221-543002-CIPWR-UT00096 Payment for Contract Amendment No 3 will be made from Water Expansion account 2161-2221-543002-CIPWR-UT00096 in the amount of \$33,956 and from Water Expansion account 2161-2221-543002-CIPWR-UT00145 in the amount of \$46,390

**SUMMARY**

On February 15, 2005, Mayor and Council awarded an Engineering Services contract to BROOKS in the amount of \$91,957 for the design of the 24-inch water line on 91<sup>st</sup> Avenue from Beardsley Road to Union Hills Drive (UT00096) Contract Amendment No 1 was issued on July 19, 2005, in the amount of \$3,920 for additional potholes that were recommended during the initial data gathering phase of the project

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**CITY CLERK USE ONLY**

- Consent Agenda
- Carry Over to Date \_\_\_\_\_
- Approved
- Unfinished Business (Date heard previous \_\_\_\_\_)
- New Business

ORD # \_\_\_\_\_ RES # \_\_\_\_\_  
LCON# 01705 CLIC # \_\_\_\_\_  
Action Date \_\_\_\_\_

On August 23, 2005, Mayor and Council awarded an Engineering Services contract to BROOKS in the amount of \$150,816 for the design of the 24-inch water line on Beardsley Road from 87<sup>th</sup> Avenue to Lake Pleasant Road (UT00145) Materials Management issued this as Contract Amendment No 2 due to the fact that this water line project was included in the same Request for Proposal (Solicitation No P05-0015) as the 24-inch water line on 91<sup>st</sup> Avenue from Beardsley Road to Union Hills Drive (UT00096)

During the design phase of the water line projects, there were internal meetings with the Engineering Department to discuss combining the 91<sup>st</sup> Avenue water line and a portion of the Beardsley Road water line project with the Westbrook Village verdict implementation project (EN00003) Both departments agreed that combining the construction of these projects (refer to Exhibit "A") would reduce the impact to the public and provide a better final roadway surface on 91<sup>st</sup> Avenue and Beardsley Road

Contract Amendment No 3 provides for additional design services so that the 91<sup>st</sup> Avenue water line project (UT00096) and Phase 1 of the Beardsley Road water line project (UT00145) can be constructed along with the Westbrook Village verdict implementation project in FY 2009 Construction of Phase 2 of the Beardsley Road water line (UT00145) is currently programmed in the Capital Improvement Project Budget for FY 2010 The contract amendment will include the following scope of services

1 91<sup>st</sup> Avenue 24-inch water line project (UT00096)

- a Redesign to incorporate Westbrook Village Storm Drain alignment into plan set
- b Obtain all final permits needed to complete the project

2 Beardsley Road 24-inch water line project (UT00145)

- a Redesign to incorporate Westbrook Village Storm Drain alignment into plan set
- b Separate plans and specifications into two separate sets of construction documents
  - Phase 1 - Beardsley Road from 87<sup>th</sup> Avenue to 95<sup>th</sup> Avenue
  - Phase 2 - Beardsley Road 95<sup>th</sup> Avenue to Lake Pleasant Road
- c Obtain all final permits needed to complete the project

A budget transfer is needed from Water Contingency Fund account 2050-2050-570000 in the amount of \$15,912 to Water Expansion account 2161-2221-543002-CIPWR-UT00096 Payment for Contract Amendment No 3 will be made from Water Expansion account 2161-2221-543002-CIPWR-UT00096 in the amount of \$33,956 and from Water Expansion account 2161-2221-543002-CIPWR-UT00145 in the amount of \$46,390

Council Communication Page 3 of 3  
 91<sup>st</sup> Avenue & Beardsley Road Water Lines  
 June 17, 2008

The following table summarizes the proposed contract funding

<b>ITEM</b>	<b>AMOUNT</b>
Original Contract Value 91st Avenue water line project(UT00096)	\$91,957 00
Contract Amendment No 1 additional potholes on 91st Avenue water line project (UT00096)	\$3,920 00
Contract Amendment No 2 add Beardsley Road water line project to existing contract (UT00145)	\$150,816 00
Contract Amendment No 3 additional design services 91 <sup>st</sup> Avenue water line project (UT00096) - \$33,956 Beardsley Road water line project (UT00145) - \$46,390	\$80,346 00
<b>REVISED CONTRACT TOTAL</b>	<b>\$327,039 00</b>

ATTACHMENT(s)

- Exhibit "A" – Area Map
- Exhibit "B" - BROOKS Contract Amendment No 3

# Exhibit "A"

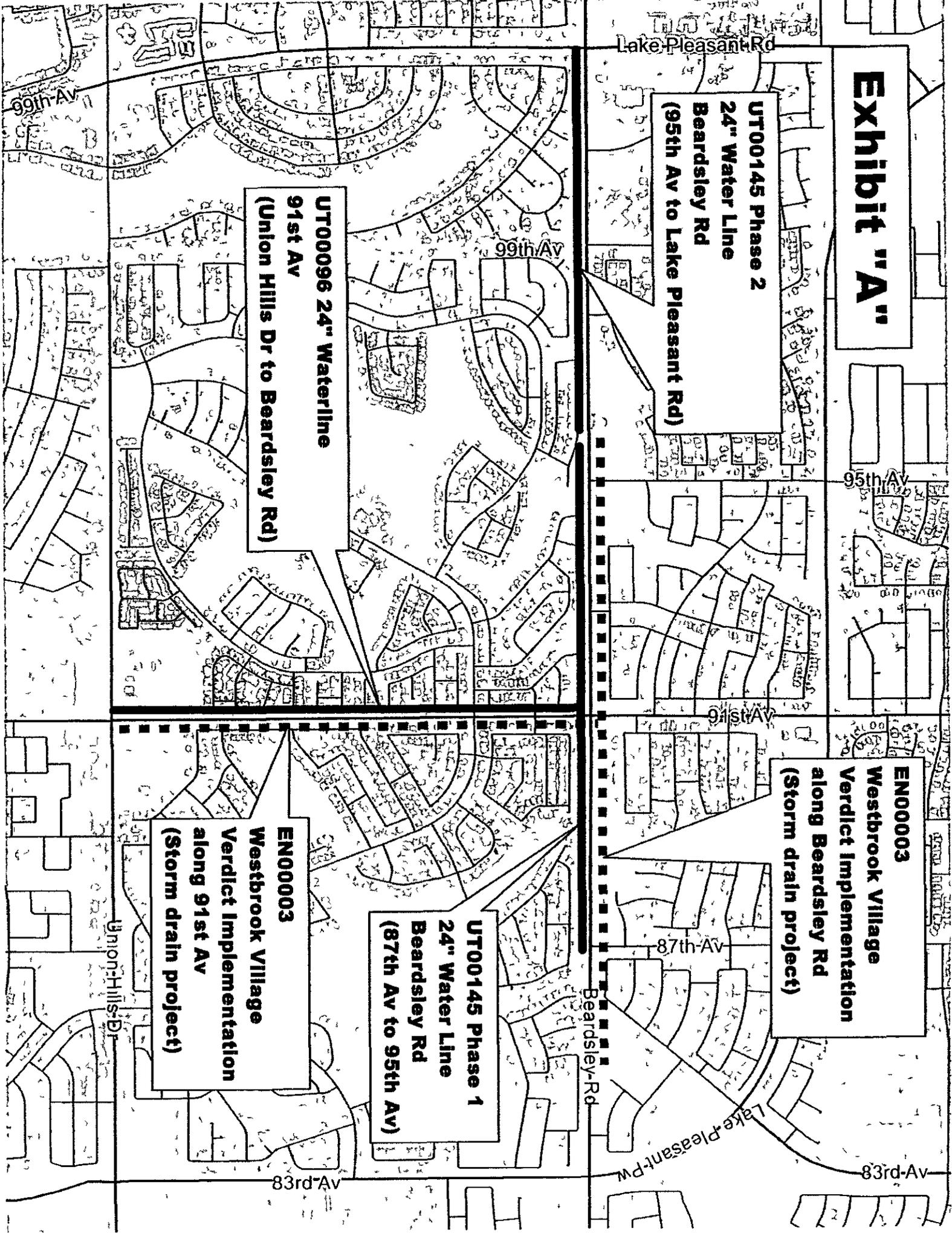
**UT00145 Phase 2**  
**24" Water Line**  
**Bardsley Rd**  
**(95th Av to Lake Pleasant Rd)**

**UT00096 24" Waterline**  
**91st Av**  
**(Union Hills Dr to Bardsley Rd)**

**EN00003**  
**Westbrook Village**  
**Verdict Implementation**  
**along Bardsley Rd**  
**(Storm drain project)**

**EN00003**  
**Westbrook Village**  
**Verdict Implementation**  
**along 91st Av**  
**(Storm drain project)**

**UT00145 Phase 1**  
**24" Water Line**  
**Bardsley Rd**  
**(87th Av to 95th Av)**



May 23, 2008

Ms Leisa Burdine, P E  
City of Peoria  
Engineering Department  
8401 West Monroe Street  
Peoria, AZ 85345



**BROOKS  
ENGINEERS &  
SURVEYORS  
INC**

**Subject Contract Amendment No 3  
91<sup>st</sup> Avenue 24" Waterline and  
Beardsley Road 24" Waterline  
Project No W-0504**

Dear Ms Burdine,

Brooks Engineers & Surveyors, Inc (BROOKS) is submitting the following change order for additional work to be provided to the City of Peoria (City), in association with the 91<sup>st</sup> Avenue Waterline Project and the Beardsley Road Waterline Project

As we discussed, at the February 28<sup>th</sup> and April 28<sup>th</sup> meetings with Entellus and the City at their office, it is the City's desire to bid the construction of the 91<sup>st</sup> Avenue waterline, a portion of the Beardsley waterline and the Westbrook Village Storm Drain projects as one package To facilitate this BROOKS has been asked to incorporate the storm drain plans into the 100% 91<sup>st</sup> Avenue Construction Documents submitted in July, 2006

In addition, the City would like to split the Beardsley Road Waterline Project into two phases with the match line located near 95<sup>th</sup> Avenue As stated previously, the portion east of 95<sup>th</sup> Avenue will be bid and constructed with the 91<sup>st</sup> Avenue Waterline and Westfield Village Storm Drain projects The segment west of 95<sup>th</sup> Avenue will remain as a separate project to be bid in FY 2010 To facilitate this BROOKS has been asked to revise the 90% Beardsley Road Waterline plans and specifications (submitted in November, 2006) into two separate sets of Construction Documents

Phone 602 437 3733

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A 2 0

**EXHIBIT "B"**

Based upon these meetings BROOKS has developed a revised scope of services for each project which we have provided for your review. The tasks included for each project as part of Contract Amendment No. 3 are outlined below.

91<sup>st</sup> Avenue --

- Incorporate Westbrook Village Storm Drain alignment into plan set based upon information provided by the City and Entellus
- Resubmit Pre-Final (90%) and Final (100%) plans, specifications for City approval
- Resubmit Pre-Final (90%) and Final (100%) plans, specifications for MCDES approval
- Resubmit Pre-Final (90%) and Final (100%) plans, specifications for utility conflict review

Beardsley Road --

- Incorporate Westbrook Village Storm Drain alignment into plan set based upon information provided by the City and Entellus
- Resubmit Pre-Final (90%) plans, specifications for City and MCDES approval and utility conflict review
- Submit Final (100%) plans, specifications for City and MCDES approval and utility conflict review

The cost to complete this additional work will be \$80,346 thus increasing the total contract amount as follows:

Original Contract Amount (2/15/05)	\$91,957
Contract Amendment #1 (7/19/05)	\$3,920
Contract Amendment #2 (8/23/05)	<u>\$150,816</u>
Current Contract Amount	\$246,693
Contract Amendment #3	<u>\$80,346</u>
Revised Contract Amount	\$327,039

A detail cost breakdown for each project has been attached for your review.

Should you require any additional information, please let us know.

Sincerely,

**BROOKS ENGINEERS & SURVEYORS, INC**



Matthew K. Tsark, P.E.  
Project Manager

cc Project File (91606FF/91607FF)

Attachments Detailed Scope of Services - 91st Avenue Waterline Project (2 pages)  
Detailed Cost Breakdown - 91st Avenue Waterline Project (1 page)  
Detailed Scope of Services - Beardsley Road Waterline Project (2 pages)  
Detailed Cost Breakdown - Beardsley Road Waterline Project (2 pages)

**SCOPE OF PROFESSIONAL SERVICES FOR  
91<sup>ST</sup> AVENUE 24-INCH WATERLINE  
BEARDSLEY ROAD TO UNION HILLS DRIVE  
CONTRACT AMENDMENT NO 3**

**SCOPE OF SERVICES**

This project provides for the design of a 24-inch water line on 91<sup>st</sup> Avenue from Beardsley Road to Union Hills Drive. The line is required in order to convert from a distributed well system to a central surface water source. This project will allow the distribution of surface water and fill in gaps of missing links in the existing distribution system.

**A FINAL DESIGN PHASE**

**1 Final Plan Preparation**

- a Incorporate any review comments into the final plans
- b Incorporate Westbrook Village Storm Drain alignment into plan set based upon information provided by the City and Entellus
- c Details will be provided for special structures and connections
- d The plans will be submitted to the Maricopa County Department of Environmental Services for approval and signature
- e All items of the work will be called out and a final cost estimate prepared
- f All utility approvals will be obtained prior to approval of the final plans
- g Provide detail for disinfection injection points, bacteria sampling points and specify method of removal of injection/sampling points post construction

**2 Preparation of Specification**

- a The consultant shall prepare the contract specifications including the bidding schedule, General Provisions, Special Provisions and incorporate the City's contract documents
- b 5 sets of complete project plans and specifications will be printed and provided to the City

**3 Coordination**

- a Throughout plan development, the consultant shall meet with the Peoria staff to incorporate any preferences concerning water line locations and material types [Fee includes three coordination meetings with the City and Storm Drain Design Engineer]
- b Throughout plan development, the consultant shall submit and obtain all permits and reviews from all agencies involved
- c Identify all agencies that will be involved in the project and determine the process and schedule for obtaining approval including but not limited to
  - Maricopa County Department of Transportation
  - Maricopa Department of Environmental Services

- d Identify all Utilities that will be involved in the project and determine the process and schedule for obtaining approval including but not limited to
- Southwest Gas
  - APS
  - SRP
  - Qwest
  - Cox
  - El Paso Natural Gas
  - New River Water Company
  - Rose Valley Water Company

[Fee includes one coordination meeting with the utility companies]

## **B. Submittals**

The Consultant shall include the following as part of each submittal

### Pre-Final Design (90%) Plans Submittal

- Pre-Final Waterline Plan & Profile Sheets
- Pre-Final Special Provisions
- Pre-Final Estimate of Probable Construction Cost

### Final (100%) Construction Documents Submittal

- City comments from the previous submittal
- Final Waterline Plan & Profile Sheets
- Final Special Provisions
- Final Geotechnical Report
- Final Estimate of Probable Construction Cost
- Final Underground Utility Locating Report
- Outside Agency / Utility Approvals

**CITY OF PEORIA  
UTILITIES DEPARTMENT  
91st Avenue 24 Waterline  
Contract Amendment No 3**

**Engineering Design Cost Estimate**

ITEM	PRINCIPAL		PROJ MGR		PROJ ENG		TECH		CADD		CLERICAL		SURVEY CREW		TOTAL	
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
<b>B Final Design Phase</b>																
2 Preliminary Plan Preparation																
a Revise preliminary plans	1	\$178	8	\$1 152	12	\$1 380			24	\$1 632					45	\$4 342
b Submit preliminary plans			2	\$288	2	\$230			4	\$272					8	\$790
c Agency and Utility Coordination			2	\$288	8	\$920									10	\$1 208
d Preliminary Cost estimate			2	\$288	4	\$460			8	\$544					14	\$1 292
3 Final Plan Preparation																
a Incorporate Review Comments	1	\$178	8	\$1 152	16	\$1 840			20	\$1 360					45	\$4 530
b Develop Final Plans	2	\$356	8	\$1 152	16	\$1 840			40	\$2 720					66	\$8 068
c MCDES Approval			2	\$288	4	\$460									6	\$748
d Final Cost Estimate	1	\$178	2	\$288	4	\$460			8	\$544					15	\$1 470
e Obtain Utility Approvals			2	\$288	2	\$230			4	\$272					8	\$790
4 Preparation of Specifications																
5 Project Coordination	2	\$356	16	\$2 304	24	\$2 780					12	\$588			44	\$4 500
<b>DESIGN SUBTOTALS</b>	<b>7</b>	<b>\$1 246</b>	<b>60</b>	<b>\$8 640</b>	<b>116</b>	<b>\$13 340</b>	<b>0</b>	<b>\$0</b>	<b>108</b>	<b>\$7 344</b>	<b>20</b>	<b>\$980</b>	<b>0</b>	<b>\$0</b>	<b>311</b>	<b>\$31 550</b>

**SUBTOTAL \$31 550**  
**DIRECT EXPENSES \$2 406**  
**TOTAL \$33 956**

Direct Expenses:

Mylar Plots	19 sheets @	\$9.00	\$171
Bond Plots	836 sheets @	\$0.70	\$585
City Submittals (2 x 5 copies)	100 sheets		
Utility Submittals (2 x 8 sets 2 copies)	606 sheets		
MCDES Submittals (2 x 1 copy)	38 sheets		
Photocopies	5000 sheets @	\$0.09	\$450
MCDES Review Fee (Expedited)			\$1 200
	<b>TOTAL</b>		<b>\$2 406</b>

**SCOPE OF PROFESSIONAL SERVICES FOR  
BEARDSLEY ROAD 24-INCH WATERLINE  
LAKE PLEASANT ROAD TO 87<sup>TH</sup> AVENUE  
CONTRACT AMENDMENT NO 3**

**[NOTE THE FOLLOWING SCOPE OF SERVICES AND SUBMITTALS APPLIES TO BOTH PHASES OF THE PROJECT]**

**SCOPE OF SERVICES**

This project provides for the design and construction of a 24-inch water line along Beardsley Road from Lake Pleasant Road to 87th Avenue. This waterline will provide a valuable interconnect between the Lake Pleasant Road transmission line and 83rd Avenue. The project will be divided into two separate phases.

Phase 1 will include the design and construction of a 24-inch water line along Beardsley Road from approximately 95th Avenue to 87th Avenue. Phase 2 will include the design and construction of a 24-inch water line along Beardsley Road from Lake Pleasant Road to approximately 95th Avenue.

**A FINAL DESIGN PHASE**

**1 Final Plan Preparation**

- a Incorporate any review comments into the final plans
- b Incorporate Westbrook Village Storm Drain alignment into plan set based upon information provided by the City and Entellus
- c Details will be provided for special structures and connections
- d The plans will be submitted to the Maricopa County Department of Environmental Services for approval and signature
- e All items of the work will be called out and a final cost estimate prepared
- f All utility approvals will be obtained prior to approval of the final plans
- g Provide detail for disinfection injection points, bacteria sampling points and specify method of removal of injection/sampling points post construction

**2 Preparation of Specification**

- a The consultant shall prepare the contract specifications including the bidding schedule, General Provisions, Special Provisions and incorporate the City's contract documents
- b 5 sets of complete project plans and specifications will be printed and provided to the City

### 3 Coordination

- a Throughout plan development, the consultant shall meet with the Peoria staff to incorporate any preferences concerning water line locations and material types  
[Fee includes three coordination meetings with the City and Storm Drain Design Engineer]
- b Throughout plan development, the consultant shall submit and obtain all permits and reviews from all agencies involved
- c Identify all agencies that will be involved in the project and determine the process and schedule for obtaining approval including but not limited to
  - Maricopa County Department of Transportation
  - Maricopa Department of Environmental Services
- d Identify all Utilities that will be involved in the project and determine the process and schedule for obtaining approval including but not limited to
  - Southwest Gas
  - APS
  - SRP
  - Qwest
  - Cox
  - El Paso Natural Gas
  - New River Water Company
  - Rose Valley Water Company

[Fee includes one coordination meeting with the utility companies]

### **B Submittals**

**[NOTE THE SUBMITTALS FOR PHASE 2 OF THIS PROJECT WILL BE STAGGERED TO CORRESPOND WITH CITY FUNDING AVAILABLE IN FY 2010]**

The Consultant shall include the following as part of each submittal

#### Pre-Final Design (90%) Plans Submittal

- Pre-Final Waterline Plan & Profile Sheets
- Pre-Final Special Provisions
- Pre-Final Estimate of Probable Construction Cost

#### Final (100%) Construction Documents Submittal

- City comments from the previous submittal
- Final Waterline Plan & Profile Sheets
- Final Special Provisions
- Final Geotechnical Report
- Final Estimate of Probable Construction Cost
- Final Underground Utility Locating Report
- Outside Agency / Utility Approvals



**CITY OF PEORIA**  
**UTILITIES DEPARTMENT**  
 Beardsley Road 24 Waterline  
 Contract Amendment No 3

**Engineering Design Cost Estimate**

**PHASE 2 Lake Pleasant Road to 95th Avenue**

	PRINCIPAL		PROJ MGR		PROJ ENG		TECH		CADD		CLERICAL		SURVEY CREW		TOTAL	
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
<b>B Final Design Phase</b>																
2 Preliminary Plan Preparation																
a Revise preliminary plans																
Plan & Profile sheets (11)	1	\$178	4	\$578	8	\$920			40	\$2,720					53	\$4,394
Interconnection sheets (2)			2	\$288	8	\$920			16	\$1,088					26	\$2,296
b Submit preliminary plans			2	\$288	2	\$230			8	\$544					12	\$1,062
c Agency and Utility Coordination			2	\$288	8	\$920									10	\$1,208
d Preliminary Cost estimate			2	\$288	4	\$460			8	\$544					14	\$1,292
4 Preparation of Specifications			4	\$578	18	\$2,070					8	\$294			28	\$2,940
5 Project Coordination	1	\$178	8	\$1,152	8	\$920					4	\$196			21	\$2,446
<b>DESIGN SUBTOTALS</b>	<b>2</b>	<b>\$356</b>	<b>24</b>	<b>\$3,456</b>	<b>56</b>	<b>\$6,440</b>	<b>0</b>	<b>\$0</b>	<b>72</b>	<b>\$4,896</b>	<b>10</b>	<b>\$490</b>	<b>0</b>	<b>\$0</b>	<b>164</b>	<b>\$15,638</b>

<b>SUBTOTAL</b>	<b>\$15,638</b>
<b>DIRECT EXPENSES</b>	<b>\$2,062</b>
<b>PHASE 2 TOTAL</b>	<b>\$17,700</b>
<b>CHANGE ORDER TOTAL</b>	<b>\$46,390</b>

Direct Expenses			
Mylar Plots	16 sheets @	\$9.00	\$144
Bond Plots	704 sheets @	\$0.70	\$493
City Submittals (2 x 5 copies)	160 sheets		
Utility Submittals Submittals (2 x 8 units x 2 copies)	512 sheets		
MCDES Submittals (2 x 1 copy)	32 sheets		
Photocopies	2500 sheets @	\$0.09	\$225
MCDES Review Fee (Exp'd)			\$1,200
	<b>TOTAL</b>		<b>\$2,062</b>

placeholder



# CONTRACT AMENDMENT Change Order

Materials Management  
Procurement  
8314 W Cinnabar Ave  
Peoria AZ 85345  
Telephone (623) 773-7115  
Fax. (623) 773-7118  
Buyer Christine Finney

ORIGINAL

Solicitation No P05-0015 Page 1 of 1  
Amendment No Three (3) Date May 28, 2008

Project No Agreement Date February 17, 2005

Project Description Beardsley Road Waterline and 91st Avenue Waterline Completion Date

Change Order Type  Owner Initiated  Errors & Omissions  Unknown Conditions  Phased Award

The changes as shown on the attached sheets are hereby made to the contract

### Contract Price Change

Original Contract Price	\$91,957 00
Total of previous change orders	\$154,736 00
Original contract price plus previous change order(s)	\$246,693 00
The contract price due to this change order will be increased/decreased by	\$80,346 00
The new contract price including this change order will be	\$327,039 00

### Contract Time Change

The contract time will be increased by N/A days  
The new date for completion of all work will be N/A

Contractor hereby acknowledges receipt and agreement A signed copy shall be filed with the City of Peoria, Materials Management Division

Brooks Engineers & Surveyors

Signature	Date	Typed Name and Title	Company Name
4602 E Elwood St , #16		Phoenix AZ	85040
Address		City State	Zip Code

Attested By  
Mary Jo Kief, City Clerk

*17C 061708*  
CC Number

LCON 01705C  
Contract Number

City Seal  
Copyright 2003 City of Peoria Arizona

Official File

Requested By  
Department Leisa Burdine, Civil Engineer  
*Christine Finney* 5/28/08  
Buyer Christine Finney, *CFPB*

Approved By Herman F Koebergen, Materials Manager  
Approved as to Form

Stephen M Kemp, City Attorney  
The above referenced Contract Amendment is hereby Executed  
\_\_\_\_\_, at Peoria, Arizona

Terrence L Ellis, City Manager