

**CITY OF PEORIA, ARIZONA
COUNCIL COMMUNICATION**

CC 9C
Amend No _____

Date Prepared May 23, 2008

Council Meeting Date June 17, 2008

TO Terry Ellis, City Manager
FROM David A. Moody, P.E., Engineering Director
THROUGH Dan Nissen, P.E., Assistant City Engineer
PREPARED BY Chris Kmetty, P.E., CFM, Senior Civil Engineer
SUBJECT Adoption of the Resolution approving the Intergovernmental Agreement between the State of Arizona and the City of Peoria for design of certain improvements to The Arizona Department of Transportation's (ADOT's) new segment of freeway, State Route 303 Loop (SR 303L) (Engineering Project No P-0808, AG Contract No P001-2008-002655 TRN ADOT ECS File No JPA 08-051, Project No 303-A-NFA 303 MA 025, TRACS No H7156 01D)

RECOMMENDATION

That Mayor and Council adopt the resolution approving the Intergovernmental Agreement (IGA) with the State of Arizona in the amount of \$477,308 for the design of certain improvements to State Route 303 Loop (SR 303L) from Happy Valley Parkway (Milepost 25 17) to Lake Pleasant Parkway (Milepost 31 47) and authorize the Mayor to execute the Intergovernmental Agreement between the State of Arizona and City of Peoria

Payment will be from the following accounts

- \$203,023 - Loop 303 Interchanges Project Half Cent Sales Tax Fund Street System Account 1210-0350-543001-CIPST-EN00254DS
- \$125,460 - Loop 303 Waterline Crossings Project Water Expansion Fund Water System Account 2161-2221-543002-CIPWR-UT00249DS
- \$148,825 - Loop 303 Wastewater Line Crossings Project Wastewater Expansion Fund Wastewater System Account 2510-2630-543003-CIPWW-UT00254DS (available in the FY 2009 CIP Budget)

CITY CLERK USE ONLY

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

ORD # _____ RES # _____
LCON# 13708 LIC # _____
Action Date _____

SUMMARY

The SR 303L is part of the Regional Transportation Plan Freeway Program (RTPFP) adopted by the Maricopa Association of Governments (MAG) in November 2003. The RTPFP funds the construction of a six-lane freeway facility, with three lanes in each direction of travel, referred to as a 3+0 lane arrangement. The SR 303L is planned to ultimately have five lanes, four general purpose lanes and one high occupancy vehicle (HOV) lane in each direction, referred to as a 4+1 lane arrangement, when additional funding is available. The construction of the 3+0 facility will be implemented in two phases. Two lanes in each direction, referred to as the 2+0, will be constructed in the first phase, and the second phase will construct the third lane in each direction to achieve the 3+0 arrangement.

The new facility begins approximately three-quarters of a mile south of the existing intersection of the SR 303L and Happy Valley Parkway and proceeds to the north with a slight westerly realignment. A new Single-point Urban Interchange (SPUI) will be constructed at the intersection of SR 303L and Happy Valley Parkway. The mainline roadway will pass over Happy Valley Parkway on a new bridge. All bridges will be constructed to accommodate the 3+0 facility. The mainline roadway approaching the future Jomax Parkway interchange will separate onto the interchange ramps. The future interchange and bridges over the future Jomax Parkway will be constructed in the next phase of the RTPFP.

A new SPUI will be constructed at the intersection of SR 303L and Lone Mountain Parkway. The mainline roadway will pass over Lone Mountain Parkway on a new bridge and proceed northeasterly to the future interchange with the future Westland Drive where the roadway will pass beneath a future bridge carrying Westland Drive.

The mainline roadway turns easterly and passes over the Agua Fria River before reaching the future interchange with 96th Avenue, where the roadway will pass beneath a future bridge carrying 96th Avenue. The mainline roadway proceeds to a new compact Diamond Interchange at Lake Pleasant Parkway, where it will pass beneath a new bridge carrying the Parkway. This 7-mile long project will involve significant amounts of earth moving, bridge construction and on-site and off-site drainage improvements.

Incident to the State's design and construction of the SR 303L from Happy Valley Parkway (Milepost 25 17) to Lake Pleasant Parkway (Milepost 31 47), the City has requested that the State include the design of the following four (4) elements, 1) new water/sewer/reclaimed water lines under SR 303L for future City use, 2) Single point Urban Interchanges at Happy Valley Parkway and Lone Mountain Parkway, 3) trail crossings at six locations and 4) enhanced aesthetic upgrades.

Element 1) Will provide for water, sewer and reclaimed water line stub-outs allowing the City to connect to them at a later date without having to tear-up existing roadway

LOCATION	SIZE OF CASING	FUTURE FACILITIES
Lone Mountain Pkwy	30 inch	16 inch water line
Lone Mountain Pkwy	54 inch	36 inch water line
Lone Mountain Pkwy	24 inch	12 inch reclamation water line
Station 17+00	30 inch	16 inch water line
Station 17+00	30 inch	12 inch sewer line
96 th Ave	30 inch	16 inch water line
96 th Ave	30 inch	12 inch sewer line
96 th Ave	2 – 20 inch	2 – 8 inch force mains
Lake Pleasant Pkwy	30 inch	16 inch water line
Lake Pleasant Pkwy	54 inch	36 inch water line
Lake Pleasant Pkwy	30 inch	12 inch sewer line

Element 2) The City requested that the design of the interchanges at 303 with Happy Valley Road and Lone Mountain Parkway be upgraded from the Diamond Interchange to the SPUI. The SPUI, pronounced "Spooey", is a relatively new variant of the diamond interchange. The SPUI's advantages include

- Compact layout, requires less right-of-way acquisition
- Allows concurrent left turns for greater capacity

Element 3) The City requested the design of a trail crossing at the SR 303L with

- Caterpillar Wash
- Agua Fria River
- 2 un-named locations
- Happy Valley Road
- Lake Pleasant Parkway

Element 4) Enhanced aesthetic upgrades including painting of retaining walls and bridge structures and pedestrian fences

A summary of each party's responsibilities identified in the IGA is provided below

STATE

- 1 Invoice the City in the amount of \$477,308
- 2 On behalf of the City, contract with one or more professional design consultants to complete the agreed upon design upgrades
- 3 Provide coordination efforts with FHWA
- 4 Conduct monthly design meetings
- 5 Administer consultant contracts
- 6 Notify City should costs exceed estimated amount

CITY

- 1 Remit payment in the amount of \$477,308 to the State within 30 days of receiving the invoice
- 2 Attend monthly design meetings
- 3 Be responsible for all costs exceeding the estimated amount of \$477,308 plus a fixed rate of 5% for the State's design, review and administrative costs
- 4 Pay all electrical and telephone costs associated with the traffic interchanges at Happy Valley Parkway
- 5 Obtain an ADOT permit for conducting routine/normal and emergency maintenance
- 6 Conduct routine maintenance

A summary of the City's costs associated with the requested design elements is provided below

Utility Enhancement plus State's 5% Design Admin Fee	\$274,285
50% of cost difference between the SPUI and the DI plus State's 5% Design Administration Fee	\$203,023 (\$125,460 for Water Line and \$148,825 for Wastewater Line)
Project Total	\$477,308

ATTACHMENTS

- 1 Resolution
- 2 Intergovernmental Agreement
- 3 Exhibit – Trail Crossings
- 4 Exhibit – Diamond & SPUI
- 5 Exhibit – Utility Crossings

RESOLUTION NO 08-99

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF PEORIA, ARIZONA, ADOPTING A RESOLUTION APPROVING THE INTERGOVERNMENTAL AGREEMENT WITH THE STATE OF ARIZONA FOR CITY OF PEORIA DESIGN UPGRADES TO THE STATE'S DESIGN AND CONSTRUCTION OF STATE ROUTE 303L (SR303L)

WHEREAS, the City of Peoria Mayor and City Council are authorized by Title 9, Chapter 2, Article 4, Section 9-276 (1) to lay out and establish or otherwise improve streets, alleys, avenues, sidewalks, etc and by Title 11, Chapter 7, Section 11-951 *et seq* to enter into intergovernmental agreements with other governing bodies for services or joint exercise of powers, and

WHEREAS, the City desires to enter into an intergovernmental agreement with the State of Arizona for design upgrades to the State's design and construction of State Route 303L, and

WHEREAS, the City is willing in order to pay for the costs associated with the design upgrades to the State's design and construction of State Route 303L , and

WHEREAS, by the City entering into the Intergovernmental Agreement with the State of Arizona the public interest will best be served

THEREFORE, BE IT RESOLVED that the Mayor and City Council of the City of Peoria, Arizona approves and adopts this Resolution to enter into an intergovernmental agreement with the State of Arizona for design upgrades to the State's design and construction of State Route 303L

Resolution No 08-99
State of Arizona for design upgrades to State Route 74
June 17, 2008
Page 2 of 2 Pages

PASSED AND APPROVED by the Mayor and City Council of the City of
Peoria, Arizona this 17th day of June, 2008

Bob Barrett, Mayor

ATTEST

Mary Jo Kief, City Clerk

APPROVED AS TO FORM

Stephen M Kemp, City Attorney

ADOT File No IGA/JPA 08-051 I
AG Contract No P001-2008-002655
Project SR303L (Design)
Section Happy Valley Parkway
to Lake Pleasant Parkway
TRACS No H7156 01D
Budget Source Item No City Funding

INTERGOVERNMENTAL AGREEMENT

BETWEEN
THE STATE OF ARIZONA
AND
CITY OF PEORIA

THIS AGREEMENT is entered into this date _____, 2008, pursuant to the Arizona Revised Statutes § 11-951 through 11-954, as amended, between the between the STATE OF ARIZONA, acting by and through its DEPARTMENT OF TRANSPORTATION (the "State") and the CITY OF PEORIA, acting by and through its MAYOR and the CITY COUNCIL (the "City") Collectively referred to as, the "Parties"

I RECITALS

1 The State is empowered by Arizona Revised Statutes Section §28-401 to enter into this Agreement and has delegated to the undersigned the authority to execute this Agreement on behalf of the State

2 The City is empowered by Arizona Revised Statues § 48-572 and City Charter, Article 1, Section 3(15) to enter into this Agreement and has by resolution, a copy of which is attached hereto and made a part hereof resolved to enter into this Agreement and has authorized the undersigned to execute this Agreement on behalf of the City

3 Incident to the State's design and construction of new roadway known as State Route 303L (SR303L), from Happy Valley Parkway to Lake Pleasant Parkway, the City requests the State include the design of the following four (4) elements into the State's project design, all at the City's expense, currently estimated at **\$477,308 00** 1) design new water/sewer/reclaimed lines or casings for future lines for the City's future development, 2) design Single Point Urban Interchanges (SPUI) at Happy Valley Parkway and Lone Mountain Parkway, 3) design trail crossings at six (6) different locations identified herein, and 4) design certain aesthetics along SR303L, collectively herein referred to as the "Project" and shown on Exhibit "A", attached hereto and made a part hereof

4 The Parties hereto agree and acknowledge to the following conditions a) the amounts referenced in this Agreement are subject to change, b) the amounts may change substantially, and c) the Parties will perform their responsibilities consistent with this Agreement

THEREFORE in consideration of the mutual agreements expressed herein, it is agreed as follows

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II SCOPE OF WORK

1 The State will

a Upon execution of this Agreement invoice the City **\$477,308 00** to include the breakdown shown in the Summary Backup of Exhibit A, for the lump sum costs of the City's requested design elements of the Project including all fixed rates as shown in Exhibit A Agree to be authorized agent for and on behalf of the City

b On behalf of the City, retain and contract with one or more professional design and environmental consultants (the "Consultants") to prepare final design documents and final environmental assessment (EA) to applicable State standards, including but not limited to Cultural Resource Surveys and studies and an Army Corps of Engineers Section 404 nationwide Permit

c Provide all coordination as required, with Federal Highway Administration (FHWA) and other agencies affected by this Project, including required approvals as appropriate to this effort

d Conduct monthly design progress meetings and provide the City the design documents for review and comment, as required Incorporate the City's comments as appropriate

e Administer the Consultants contract(s) and make all payments to the Consultants Confer with the City on any design and environmental Consultant related contract modifications Be responsible for any Consultant claims for extra compensation due to delays attributable to the State

f Notify the City, should costs exceed the current estimated amount, prior to the State incurring additional design costs

g Any additional design changes requested by the City will be borne by the City and include a fixed rate of 5% for the State's design review and administration costs for the Project

2 The City shall

a Upon execution of this Agreement and within 30-days from receipt of invoice from the State, remit **\$477,308 00** for the lump sum cost of the City's requested design elements of the Project including all fixed rates, as shown in Exhibit A

b Upon execution of this Agreement, hereby designate the State as the authorized agent for and on behalf of the City

c Attend monthly design progress meetings Review the design documents and provide timely review comments, as appropriate Be responsible for any consultant claims for extra compensation caused by or attributable to the City

d Be responsible for all costs over and above the City's initial payment Any additional design changes requested by the City will be borne by the City and include a fixed rate of 5% for the State's design, review and administration costs for the Project

III MISCELLANEOUS PROVISIONS

1 This Agreement shall become effective upon filing with the Secretary of State

2 This Agreement shall remain in full force and effect until completion of the work contemplated herein and all reimbursements. This Agreement may be cancelled at any time with 30-days written notice to either party. Should the City fail to fulfill its obligations set forth in this Agreement or withdraw its proposed plans for whatever reason, the City shall be responsible for all costs incurred by the State up to the time of the City's withdrawal.

3 Each party (as "indemnitor") agrees to indemnify, defend and hold harmless the other party (as "indemnitee") from and against any and all claims, losses, liability, costs or other expenses (including, but not limited to reasonable attorneys' fees) (hereinafter collectively referred to as "claims") arising out of bodily injury of any person (including death), property damage and any other claims (including but not limited to claims of derivative or vicarious liability), which are caused by the act, omission, negligence, misconduct or other fault of the indemnitor, its officers, officials, agents, employees or volunteers.

4 This Agreement may be cancelled in accordance with Arizona Revised Statutes Section 38-511.

5 The provisions of Arizona Revised Statutes Section 35-214 are applicable to this contract to both Parties, who shall be afforded the same rights and interests under this Agreement.

6 This Agreement is subject to all applicable provisions of the Americans with Disabilities Act (Public Law 101-336, 42 U.S.C. 12101-12213) and all applicable federal regulations under the Act, including 28 CFR Parts 35 and 36. The parties to this Agreement shall comply with Executive Order Number 99-4 issued by the Governor of the State of Arizona and incorporated herein by reference regarding "Non-Discrimination".

7 Non-Availability of Funds. Every payment obligation of the State or City under this Agreement is conditioned upon the availability of funds appropriated or allocated for the payment of such obligation. If funds are not allocated and available for the continuance of this Agreement, this Agreement may be terminated by the State or City at the end of the period for which the funds are available. No liability shall accrue to the State or City in the event this provision is exercised, and the State and City shall not be obligated or liable for any future payments as a result of termination under this paragraph.

8 In the event of any controversy, which may arise out of this Agreement, the Parties hereto agree to abide by Arizona Revised Statutes Sections 12-1518, as applicable.

9 All notices or demands upon any party to this Agreement shall be in writing and shall be delivered in person or sent by mail, addressed as follows:

Arizona Department of Transportation
Joint Project Administration
205 South 17 Avenue MD 637E
Phoenix, AZ 85007
(602)712-7124 FAX 602-712-3132

City of Peoria
Attn: City Engineer
9875 N 85th Avenue
Peoria, Arizona 85345
(623) 773-7301 FAX (623) 773-7211

10 In accordance with Arizona Revised Statutes Section 11-952, (D) attached hereto and incorporated herein is the written determination of each Party's legal counsel that the Parties are authorized under the laws of this State to enter into this Agreement and that the Agreement is in proper form.

IN WITNESS WHEREOF, the parties have executed this Agreement the day and year first above written

CITY OF PEORIA

STATE OF ARIZONA

Department of Transportation

By _____
BOB BARRETT
Mayor

By _____
FLOYD P. ROEHRICH, Jr., P.E.
Deputy State Engineer Valley Transportation

ATTEST

By _____
MARY JO KIEF
Clerk

ATTORNEY APPROVAL FORM FOR THE CITY OF PEORIA

I have reviewed the above referenced Intergovernmental Agreement between the State of Arizona, acting by and through its DEPARTMENT OF TRANSPORTATION, and the CITY OF PEORIA, an Agreement among public agencies which has been reviewed pursuant to A R S § 11-951 through § 11-954 and declare this Agreement to be in proper form and within the powers and authority granted to the CITY OF PEORIA under the laws of the State of Arizona

No opinion is expressed as to the authority of the State to enter into this Agreement

DATED this _____ day of _____ 2008

City Attorney

**EXHIBIT A
SUMMARY**

Pre PSE Version
JPA 10000 08-051
Date 5/17/08

**SR303L, HAPPY VALLEY PKWY TO LAKE PLEASANT PKWY
303 MA 025 H7156 01C
DESCRIPTION AND COST OF DESIGN ITEMS FOR JPA WITH THE CITY OF PEORIA**

ITEM	COST			TOTAL	DESCRIPTION
	DESIGN	CONSTRUCTION	RIGHT-OF-WAY		
1 Utility Enhancements	\$261 224	\$0	\$0	\$261 224	Estimated cost for the design of sleeves and carrier pipes across the SR 303L for future City of Peoria utilities
5% Design Administration	\$13 061	\$0	\$0	\$13 061	Design Administration is calculated on a percentage basis of the design fee shown in Item 1
ITEM 1	\$274,285	\$0	\$0	\$274,285	
2 50% of Cost Difference between SPUI and CDI	\$193 355	\$0	\$0	\$193 355	Lump Sum Cost for 50% of the difference in cost between Single Point Urban Interchanges and Compact Diamond Interchanges at Happy Valley Parkway and Lone Mountain Parkway
5% Design Administration	\$9 668	\$0	\$0	\$9 668	Design Administration is calculated on a percentage basis of the design fee shown in Item 2
ITEM 2 TOTAL	\$203,023	\$0	\$0	\$203,023	
3 Trail Crossings	\$0	\$0	\$0	\$0	The design of the trail crossings is part of the original scope of work and is 100% ADOT cost
5% Design Administration	\$0	\$0	\$0	\$0	Design Administration is calculated on a percentage basis of the design fee shown in Item 3
ITEM 3 TOTAL	\$0	\$0	\$0	\$0	
4 Aesthetic Enhancements	\$0	\$0	\$0	\$0	The production of the sheets for the aesthetic treatments crossings is part of the original scope of work and is 100% ADOT cost The proposed City of Peoria's enhancements will not result in costs above the original estimate
5% Design Administration	\$0	\$0	\$0	\$0	Design Administration is calculated on a percentage basis of the design fee shown in Item 4
ITEM 4 TOTAL	\$0	\$0	\$0	\$0	
PROJECT TOTAL	\$477,308	\$0	\$0	\$477,308	

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EXHIBIT A
ITEM 1 SUMMARY BACKUP
WATER AND SEWER DESIGN COST
TOTALS
303 MA 025 H7166 01C

Pre PSE Version
JPA XX XXX
Date 5/17/08

UTILITIES (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Des Mngr	Proj Eng	Eng / Dagr	Tech / Dftr	Sec / Clerical
CITY OF PEORIA W/S/RW DESIGN									
Cover Sheet Water	N/A	2	2.5	5		1	1	3	
Cover Sheet Sewer	N/A	2	2.5	5		1	1	3	
Cover Sheet Reclaimed Water	N/A	1	5.0	5		1	1	3	
Key Map - Water	N/A	2	4.5	9		2	3	4	
Key Map - Sewer	N/A	2	4.5	9		2	3	4	
Key Map Reclaimed Water	N/A	1	9.0	9		2	3	4	
Water Notes	N/A	2	2.5	5		1	1	3	
Sewer Notes	N/A	2	2.5	5		1	1	3	
Reclaimed Water Notes	N/A	1	5.0	5		1	1	3	
General Notes Sheets	N/A	5	4.0	20		5	5	10	
Waterline Plan and Profile Sheets	20	14	33.0	462		154	200	108	
Sewer Plan and Profile Sheets	20	14	33.0	462		154	200	108	
Reclaimed Water Plan and Profile Sheets	20	3	34.7	104		32	48	24	
Details for Water	N/A	4	23.0	92		44	16	32	
Details for Sewer	N/A	1	23.0	23		11	4	8	
Details for Reclaimed Water	N/A	1	23.0	23		11	4	8	
Sewer Profile Coordination and Confirmation of depth	N/A	N/A	N/A	90		25	25	40	
Plan and Profile Sheets taken to 75% but removed from scope	20	4	N/A	52		18	24	12	
Cover Sheet Water (for repackaging)	N/A	1	5.0	5		1	1	3	
Cover Sheet Sewer (for repackaging)	N/A	1	5.0	5		1	1	3	
Subtotal City of Peoria W/S/RW Design		63	22.1	1385		466	543	386	
GENERAL ITEMS									
Specifications	N/A	N/A	N/A	31		10	15	6	
Specification (for repackaging)	N/A	N/A	N/A	31		10	15	6	
Meetings	N/A	N/A	N/A	56		56			
Quantities and Estimate	N/A	N/A	N/A	57		15	30	12	
Quantities and Estimate (for repackaging)	N/A	N/A	N/A	21		5	10	6	
QA/QC	N/A	N/A	N/A	60	20	20	20		
Alternative Development	N/A	N/A	N/A	170	10	45	45	70	
Prepare County ATC for Waterlines w/Report	N/A	N/A	N/A	24		4	12	8	
Prepare County ATC for Sewer Lines w/Report	N/A	N/A	N/A	24		4	12	8	
Prepare County ATC for Reclaimed Water w/Report	N/A	N/A	N/A	24		4	12	8	
Prepare ADOT permit application for all crossings	N/A	N/A	N/A	66	66				
Prepare County ATC for Waterlines w/Report (for repackaging)	N/A	N/A	N/A	12		2	6	4	
Prepare County ATC for Sewer Lines w/Report (for repackaging)	N/A	N/A	N/A	12		2	6	4	
Subtotal General Items				588	96	177	183	102	30
TOTAL UTILITIES (AZTEC)		63	22.1	1973	96	643	726	488	30

Direct Labor Costs	\$251,688
Outside Reproduction	\$1,510
Outside Messenger Service	\$336
Personal Mileage	\$890
Miscellaneous	\$6,800
Total Water & Sewer Design Costs Item 1	\$261,224

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EXHIBIT A
 ITEM 1 SUMMARY BACKUP
 WATER UTILITY DESIGN COST
 303 MA 025 H7156 01C

Pre PSE Venson
 JPA XX XXX
 Date 5/17/08

UTILITIES (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Des Mngr	Proj Eng	Eng / Dagr	Tech / Dftr	Sec / Clerical
CITY OF PEORIA WATER DESIGN									
Cover Sheet - Water	N/A	2	2.5	5.0		1.0	1.0	3.0	
Cover Sheet - Sewer									
Cover Sheet - Reclaimed Water									
Key Map - Water	N/A	2	4.5	9.0		2.0	3.0	4.0	
Key Map - Sewer									
Key Map - Reclaimed Water									
Water Notes	N/A	2	2.5	5.0		1.0	1.0	3.0	
Sewer Notes									
Reclaimed Water Notes									
General Notes Sheets	N/A	5	4.0	20.0		5.0	5.0	10.0	
Waterline Plan and Profile Sheets	20	14	33.0	462.0		154.0	200.0	108.0	
Sewer Plan and Profile Sheets									
Reclaimed Water Plan and Profile Sheets									
Details for Water	N/A	4	23.0	92.0		44.0	16.0	32.0	
Details for Sewer									
Details for Reclaimed Water									
Sewer Profile Coordination and Confirmation of depth									
Plan and Profile Sheets taken to 75% but removed from scope	20	2	N/A	26.0		8.0	12.0	6.0	
Cover Sheet - Water (for repackaging)	N/A	1	5.0	5.0		1.0	1.0	3.0	
Cover Sheet - Sewer (for repackaging)									
Subtotal City of Peoria Waterline Design		32	19.5	619.0		216.0	239.0	60.0	
GENERAL ITEMS									
Specifications	N/A	N/A	N/A	15.5		5.0	7.5	3.0	
Specification (for repackaging)	N/A	N/A	N/A	15.5		5.0	7.5	3.0	
Meetings	N/A	N/A	N/A	28.0		28.0			
Quantities and Estimate	N/A	N/A	N/A	28.5		7.5	15.0	6.0	
Quantities and Estimate (for repackaging)	N/A	N/A	N/A	10.5		2.5	5.0	3.0	
QA/QC	N/A	N/A	N/A	30.0	10.0	10.0	10.0		
Alternative Development	N/A	N/A	N/A	85.0	5.0	22.5	22.5	35.0	
Prepare County ATC for Waterlines w/Report	N/A	N/A	N/A	24.0		4.0	12.0	8.0	
Prepare County ATC for Sewer lines w/Report	N/A	N/A	N/A						
Prepare County ATC for Reclaimed Water w/Report	N/A	N/A	N/A						
Prepare ADOT permit application for all crossings	N/A	N/A	N/A	33.0	33.0				
Prepare County ATC for Waterlines w/Report (for repackaging)	N/A	N/A	N/A	12.0		2.0	6.0	4.0	
Prepare County ATC for Sewer Lines w/Report (for repackaging)	N/A	N/A	N/A						
Subtotal General Items				282.0	48.0	86.5	85.5	47.0	15.0
TOTAL UTILITIES (WATER)		32	19.5	901	48	303	325	216	15

Direct Labor Costs \$115,718
 Outside Reproduction \$755
 Outside Messenger Service \$168
 Personal Mileage \$445
 Miscellaneous \$2,400
 Total Water Design Costs Item 1 \$119,486

13708

EXHIBIT A
ITEM 1 SUMMARY BACKUP
SEWER UTILITY DESIGN COST

Pre PSE Venson
JPA XX XXX
Date 5/17/08

303 MA 025 H7156 01C

UTILITIES (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Des Mngr	Proj Eng	Eng / Dsgr	Tech / Dftr	Sec / Clerical
CITY OF PEORIA SEWER DESIGN									
Cover Sheet Water									
Cover Sheet Sewer	N/A	2	2 5	5 0		1 0	1 0	3 0	
Cover Sheet Reclaimed Water	N/A	1	5 0	5 0		1 0	1 0	3 0	
Key Map - Water									
Key Map Sewer	N/A	2	4 5	9 0		2 0	3 0	4 0	
Key Map Reclaimed Water	N/A	1	9 0	9 0		2 0	3 0	4 0	
Water Notes									
Sewer Notes									
Reclaimed Water Notes	N/A	2	2 5	5 0		1 0	1 0	3 0	
General Notes Sheets	N/A	1	5 0	5 0		1 0	1 0	3 0	
Waterline Plan and Profile Sheets									
Sewer Plan and Profile Sheets	20	14	33 0	462 0		154 0	200 0	108 0	
Reclaimed Water Plan and Profile Sheets	20	3	34 7	104 0		32 0	48 0	24 0	
Details for Water									
Details for Sewer	N/A	1	23 0	23 0		11 0	4 0	8 0	
Details for Reclaimed Water	N/A	1	23 0	23 0		11 0	4 0	8 0	
Sewer Profile Coordination and Confirmation of depth				90 0		25 0	25 0	40 0	
Plan and Profile Sheets taken to 75% but removed from scope	20	2	N/A	26 0		8 0	12 0	6 0	
Cover Sheet Water (for repackaging)									
Cover Sheet Sewer (for repackaging)	N/A	1	5 0	5 0		1 0	1 0	3 0	
Subtotal City of Peoria Sewer Design		31	24 9	766 0		250 0	304 0	217 0	
GENERAL ITEMS									
Specifications	N/A	N/A	N/A	15 5		5 0	7 5	3 0	
Specification (for repackaging)	N/A	N/A	N/A	15 5		5 0	7 5	3 0	
Meetings	N/A	N/A	N/A	28 0		28 0			
Quantities and Estimate	N/A	N/A	N/A	28 5		7 5	15 0	6 0	
Quantities and Estimate (for repackaging)	N/A	N/A	N/A	10 5		2 5	5 0	3 0	
QA/QC	N/A	N/A	N/A	30 0	10 0	10 0	10 0		
Alternative Development	N/A	N/A	N/A	85 0	5 0	22 5	22 5	35 0	
Prepare County ATC for Waterlines w/Report									
Prepare County ATC for Sewer lines w/Report	N/A	N/A	N/A	24 0		4 0	12 0	8 0	
Prepare County ATC for Reclaimed Water w/Report	N/A	N/A	N/A	24 0		4 0	12 0	8 0	
Prepare ADOT permit application for all crossings	N/A	N/A	N/A	33 0	33 0				
Prepare County ATC for Waterlines w/Report (for repackaging)									
Prepare County ATC for Sewer Lines w/Report (for repackaging)	N/A	N/A	N/A	12 0		2 0	6 0	4 0	
Subtotal General Items				306 0	48 0	90 5	97 5	55 0	15 0
TOTAL UTILITIES (SEWER)		31	24 9	1 072 0	48 0	340 5	401 5	272 0	15 0

Direct Labor Costs \$135 970
 Outside Reproduction \$755
 Outside Messenger Service \$168
 Personal Mileage \$445
 Miscellaneous \$4 400
 Total Sewer Design Costs Item 1 \$141 738

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EXHIBIT A
ITEM 2 SUMMARY BACKUP
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Pre-PSE Version
JPA XX XXX
Date 5/17/08

DESIGN MANAGEMENT (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng / Dagr	Tech / Dftr	Sec / Clerical
PROJECT COORDINATION (AZTEC)										
Submittal Coordination										
Team Cost Estimate Assembly (C&S Format)										
Team Cost Estimate Assembly (E2C2 Format)										
Team Cost Estimate Assembly (MC Format)										
Team Special Provision Assembly										
Coordination/Meetings (36 @ 2 hrs)										
Comment Resolution Meetings (2 @ 3 hrs)										
Stage III Field Review Meeting										
Progress Meetings (12 @ 2 hrs)										
Utility Coordination Meetings (14 @ 2 hrs)										
Schedule Preparation & Maintenance										
Weekly CADD File Transfers & Management										
Administration										
Pre-Bid Coordination				52		30	22			
JPA Assistance				24		24				
Subtotal Project Coordination Items				76		54	22			

TOTAL DESIGN MANAGEMENT (AZTEC)				76		54	22			
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CIVIL (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng / Dagr	Tech / Dftr	Sec / Clerical
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GENERAL CIVIL PLANS Mainline SR303L TI Ramps & Future TI Geometry										
Happy Valley Rd Ramp Typical Sections	50	2	38.0	76				18	24	34
Lone Mountain Pkwy Ramp Typical Sections	50	2	38.0	76				18	24	34
Banner Summary	NA	1	40.0	40				8	20	12
Pipe Sleeve Summary	NA	1	12.0	12				4	4	4
Curb and Gutter Summary	NA	2	26.0	52				16	20	16
Fencing Summary	NA	1	28.0	28				8	8	12
Happy Valley Rd Ramp Typical Sections (50% Credit)	50	2	22.5	-45				-9	15	21
Lone Mountain Pkwy Ramp Typical Sections (50% Credit)	50	2	22.5	-45				-9	15	21
Banner Summary (50% Credit)	NA	1	20.0	20				-8	7	-5
Pipe Sleeve Summary (50% Credit)	NA	1	15.0	15				-6	5	-4
Curb and Gutter Summary (50% Credit)	NA	2	19.0	38				16	12	10
Fencing Summary (50% Credit)	NA	1	19.0	19				-8	-6	5
Subtotal General Civil Plans				102				16	40	46

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CIVIL PLANS Mainline SR303L, TI Ramps & Future TI Geometry									
Geometric Data	NA	2	30 0	60			8	32	20
Geometric Layout	100	4	30 0	120			16	64	40
Happy Valley Rd Ramp Plan and Profiles	50	6	33 7	202			80	50	72
Lone Mtn Rd Ramp Plan and Profiles	50	6	33 7	202			80	50	72
Cross Sections	20	16	4 5	72			16	24	32
Added Earthwork / Modeling / Backup Information for Report	NA			80			16	24	40
Geometric Data (25% Credit)	NA	2	7 0	14			2	-4	-8
Geometric Layout (25% Credit)	100	-4	7 0	28			-4	-8	16
Happy Valley Rd Ramp Plan and Profiles (25% Credit)	50	-6	10 0	-60			24	20	16
Lone Mtn Rd Ramp Plan and Profiles (25% Credit)	50	-6	10 0	-60			24	20	16
Cross Sections (50% Credit)	20	16	2 4	36			-8	12	18
Subtotal Civil Plans				536			54	160	202

GENERAL ITEMS									
QA/QC				32			16	8	8
Special Provisions				20			12	8	
Quantities/Cost Estimates				48			24	24	
Design Coordination/Meetings (12 @ 2 hrs)				48			24	24	
Earthwork Report				18			8	8	2
JPA Quantity Split				128			60	60	8
Subtotal General Items				294			144	132	10

TOTAL CIVIL (AZTEC)				932			314	352	256	0
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CIVIL (SCI)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng / Degr	Tech/ Dftr	Sec / Clerical
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GENERAL CIVIL PLANS Lone Mountain Parkway & Lake Pleasant Parkway										
Typical Sections L M P & L P P	10	3	0 7	2				2		
Curb Gutter & Sidewalk Summary	NA	4	1 0	4				4		
Subtotal General Civil Plans		7	0 9	6				6		

CIVIL PLANS Lone Mountain Parkway & Lake Pleasant Parkway										
Crossroad Paving Plans Lone Mountain Parkway	20	6	7 5	45				33		12
Crossroad Profiles Lone Mountain Parkway	20	6	1 0	6				4		2
Crossroad Jointing Plans Lone Mountain Parkway	20	3	7	17					13	4
Subtotal Civil Plans		15	4 5	68				37	13	18

GENERAL ITEMS										
QA/QC				2				2		
Design Coordination/Meetings (12 @ 2 hrs)				2				2		
Administration				2			2			
Subtotal General Items				6			2	4		

TOTAL CIVIL (SCI)			22	3 6	80		2	47	13	18
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DRAINAGE (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng / Dagr	Tech / Dftr	Sec / Clerical
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ON-SITE PLANS										
New Pipe Summary Sheets	NA	13	0.8	10				2	8	
Drainage Index & General Notes Sheet	Varies									
Mainline Drainage Plan Sheets	50									
Ramp/ Crossroad Drainage Plan Sheets	50	4	3.0	12				4	8	
Pipe Profiles	50	16	0.5	8				2	6	
Subtotal On-Site Plans		33	0.9	30				8	22	

GENERAL ITEMS										
QA/QC				16				16		
Special Provisions				8				8		
Quantities/Cost Estimates										
Monthly Progress Meetings (12 @ 2 hours)										
Subtotal General Items				24				24		

TOTAL DRAINAGE (AZTEC)		33	1.6	54				24	8	22
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DRAINAGE (SCI)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng / Dagr	Tech / Dftr	Sec / Clerical
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ON-SITE PLANS										
Crossroad Drainage Plans	1 = 20'	6	8.0	48				2	40	6
Subtotal On-Site Plans		6	8.0	48				2	40	6

GENERAL ITEMS										
QA/QC				2				2		
Design Coordination/Meetings (6 @ 2 hrs)				1				1		
Subtotal General Items				3				3		

TOTAL DRAINAGE (SCI)		6	8.0	51				5	40	6
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TRAFFIC (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng / Dagr	Tech / Dftr	Sec / Clerical
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SIGNING/MARKING PLANS SR303L & Crossroads										
Plan View Sheets Additional Complexity	50	8	1.0	8					8	
Additional Sign Summary Sheets	NA	2	32.0	64				8	32	24
Additional Sign Format Sheets	NA	7	6.6	46				6	24	16
Subtotal Signing/Marking Plans		17	6.9	118				14	64	40
Subtotal Construction Sequence/TC Plans										

GENERAL ITEMS										
QA/QC				8				8		
Quantities/Cost Estimates				6				6		
Subtotal General Items				14				14		

TOTAL TRAFFIC (AZTEC)		17	7.8	132				28	64	40
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EXHIBIT A
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Date 5/17/08

TRAFFIC (SCI)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng./ Degr	Tech./ Dftr	Sec / Clerical
LIGHTING/FMS PLANS										
Provisions for Future Underdeck Lighting (incl photometric analysis)	N/A	3	0.7	2					2	
Pole/Equipment Schedules and Conductor Tables	N/A	5	0.4	2					2	
Subtotal Lighting/FMS Plans		8	0.5	4					4	
SIGNAL PLANS										
Happy Valley Road T I										
Plan View	20	2	11.5	23					18	5
Lone Mountain Parkway T I										
Plan View	20	2	12.0	24					18	5
Subtotal Signal Plans		4	11.8	47					37	10
TOTAL TRAFFIC (SCI)		12	4.3	51					41	10

STRUCTURES (AZTEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Proj Eng	Eng./ Degr	Tech./ Dftr	Sec / Clerical
HAPPY VALLEY ROAD TI OP NB & SB										
General Plan	NA	1	46.0	46				12	16	18
Location Plan	20	1	46.0	46				12	16	18
Elevation & Geometrics	20	1	46.0	46				12	16	18
Typical Section	10	1	52.0	52				10	24	18
General Notes & Quantities	NA	1	50.0	50				8	24	18
Payment Limits	NA	1	48.0	48				10	20	18
Foundation Plan	20	1	44.0	44				8	20	16
Abutment Footing & Column Details	Vanes	1	58.0	58				10	28	20
NB Abutment 1 Plan & Elevation	1/4	1	58.0	58				10	28	20
NB Abutment 2 Plan & Elevation	1/4	1	58.0	58				10	28	20
SB Abutment 1 Plan & Elevation	1/4	1	58.0	58				10	28	20
SB Abutment 2 Plan & Elevation	1/4	1	58.0	58				10	28	20
Abutment Details 1	Vanes	1	72.0	72				12	36	24
Abutment Details 2	1/2	1	72.0	72				12	36	24
Abutment Details 3	NA	1	72.0	72				12	36	24
Pier Details	Vanes	1	58.0	58				10	28	20
NB Deck Plan	30	1	46.0	46				4	24	18
SB Deck Plan	30	1	46.0	46				4	24	18
NB Framing Plan & Web Elevation	1/16	1	40.0	40				4	20	16
SB Framing Plan & Web Elevation	1/16	1	40.0	40				4	20	16
Typical Deck Section	Vanes	1	46.0	46				8	20	18
Abutment Diaphragm Details	3/16	1	44.0	44				8	18	20
Pier Diaphragm Sections	Vanes	1	44.0	44				8	18	20
Superstructure Details	Vanes	1	38.0	38				8	18	12
Prestressing Details	NA	1	38.0	38				8	18	12
Miscellaneous Superstructure Details	Vanes	1	38.0	38				8	18	12
Light Blister Detail	1	1	38.0	38				8	18	12
NB Screed Elevations	NA	1	38.0	38				8	18	12
SB Screed Elevations	NA	1	38.0	38				8	18	12
NB Falsework Elevations	NA	1	38.0	38				8	18	12
SB Falsework Elevations	NA	1	38.0	38				8	18	12
50% Credit for Original Scope				-837				155	-387	285
Subtotal Happy Valley Road TI OP NB & SB Plans		31	21.6	669				117	309	243

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LONE MOUNTAIN PARKWAY TI OP NB & SB												
General Plan	NA	1	46 0	46				12	18	18		
Location Plan	20	1	46 0	46				12	18	18		
Elevation & Geometrics	20	1	46 0	46				12	18	18		
Typical Section	10	1	52 0	52				10	24	18		
General Notes & Quantities	NA	1	50 0	50				8	24	18		
Payment Limits	NA	1	48 0	48				10	20	18		
Foundation Plan	20	1	44 0	44				8	20	16		
Abutment Footing & Column Details	Varies	1	58 0	58				10	28	20		
NB Abutment 1 Plan & Elevation	1/4	1	58 0	58				10	28	20		
NB Abutment 2 Plan & Elevation	1/4	1	58 0	58				10	28	20		
SB Abutment 1 Plan & Elevation	1/4	1	58 0	58				10	28	20		
SB Abutment 2 Plan & Elevation	1/4	1	58 0	58				10	28	20		
Abutment Details 1	Varies	1	72 0	72				12	36	24		
Abutment Details 2	1/2	1	72 0	72				12	36	24		
Abutment Details 3	NA	1	72 0	72				12	36	24		
Pier Details	Varies	1	58 0	58				10	28	20		
Deck Plan	30	1	46 0	46				4	24	18		
Deck Plan	30	1	46 0	46				4	24	18		
NB Framing Plan & Web Elevation	1/16	1	40 0	40				4	20	16		
SB Framing Plan & Web Elevation	1/16	1	40 0	40				4	20	16		
Typical Deck Section	Varies	1	46 0	46				8	20	18		
Abutment Diaphragm Details	3/16	1	44 0	44				8	16	20		
Pier Diaphragm Sections	Varies	1	44 0	44				8	16	20		
Superstructure Details	Varies	1	38 0	38				8	18	12		
Prestressing Details	NA	1	38 0	38				8	18	12		
Miscellaneous Superstructure Details	Varies	1	38 0	38				8	18	12		
Light Blister Detail	1	1	38 0	38				8	18	12		
NB Screed Elevations	NA	1	38 0	38				8	18	12		
SB Screed Elevations	NA	1	38 0	38				8	18	12		
NB Falsework Elevations	NA	1	38 0	38				8	18	12		
SB Falsework Elevations	NA	1	38 0	38				8	18	12		
50% Credit for Original Scope				837				155	-387	295		
Subtotal Lone Mountain Parkway TI OP NB & SB Plans		31	216	609				117	309	243		

GENERAL ITEMS												
QA/QC				60				40	20			
Special Provisions				16				16				
Quantities/Cost Estimates				32					32			
Happy Valley Road TI OP NB & SB Final BSR	NA			20					20			
Lone Mountain Pkwy TI OP NB & SB Final BSR	NA			20					20			
Subtotal General Items				148				56	92			

TOTAL STRUCTURES (AZTEC)												
			62	240	1 485			290	710	465		

FINAL GEOTECHNICAL (AMEC)	SCALE	NO SHTS	HRS/SHT	TOTAL HOURS	Proj Princ	Des Mngr	Prof Eng/Geo	Des. Eng/Geo	Staff Eng/Geo	Tech/ Dftr	Eng/Geo Aide (IV)	Wordpr Operat
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SUBSURFACE GEOTECHNICAL INVESTIGATION												
Field Investigation												
Subsurface Exploration (Drilling) (includes daily travel)				67			4	12	24	24		3
Subsurface Exploration (Seismic Lines) (includes daily travel)				27			2	12		10		3
Laboratory Testing				8			1	2	1	1		1
Subtotal Subsurface Geotechnical Investigation				102			7	26	25	35	6	1

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EXHIBIT A
ITEM 2 SUMMARY BACKUP
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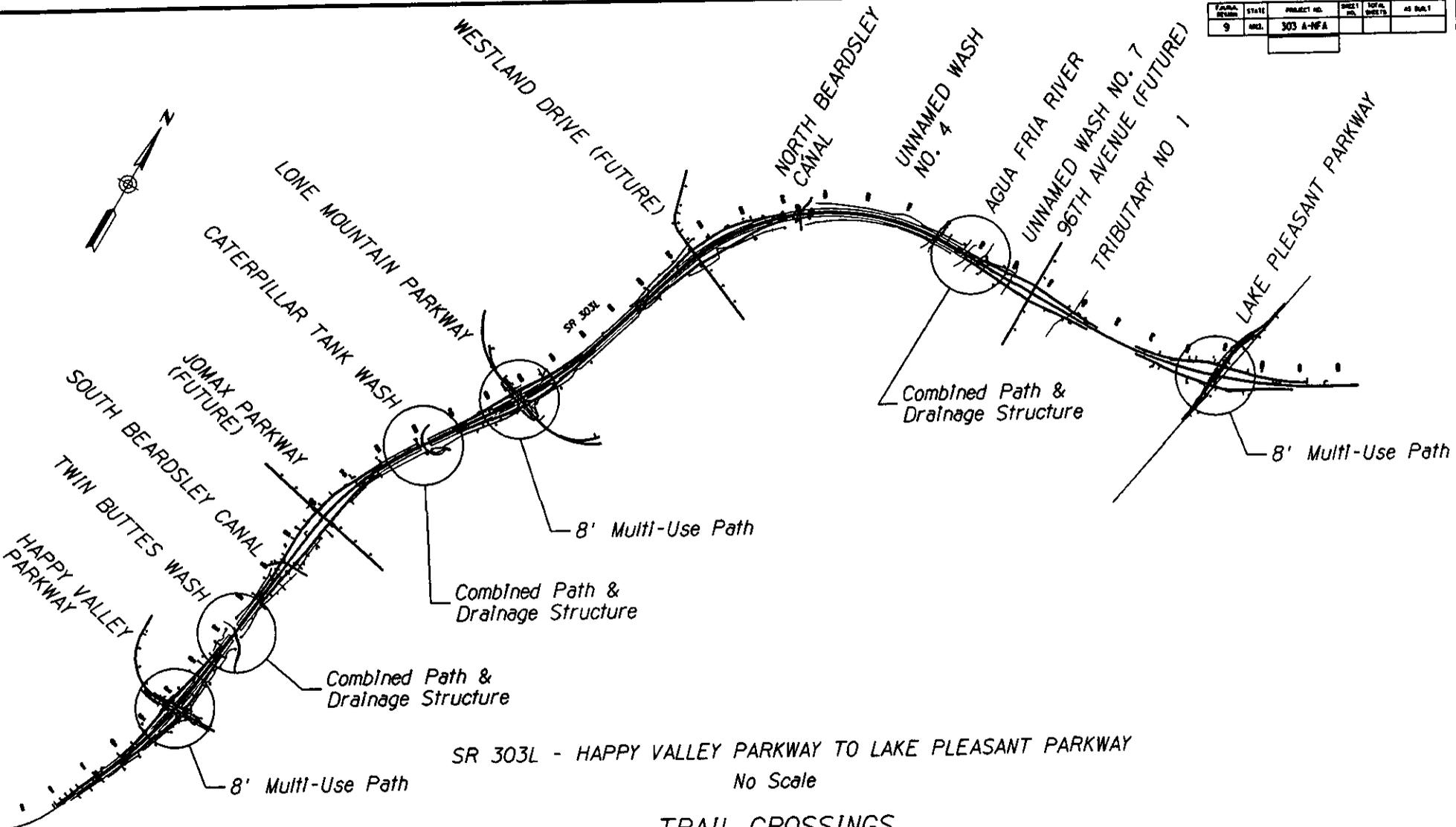
Pre-PSE Version
JPA XX XXX
Date 5/17/08

ENGINEERING ANALYSIS/REPORTS											
Prelim Found Rec Memo for BSR s											
Found Investigation Report (Draft & Final) Structures & Walls				28		2	12	3	3	6	
Geotechnical Investigation Report (Draft & Final) Roadways				12		1	1	4	4	2	
Foundation Data Sheets Structures							3	1	1	6	
				12		1					
Subtotal Engineering Analysis/Reports				50		4	16	8	8	14	
GENERAL ITEMS											
Project Management/Coord/Mtgs/Field Reviews				4		1	3				
Subtotal General Items				4		1	3				
TOTAL FINAL GEOTECHNICAL (AMEC)				156		12	45	33	43	14	8

Direct Labor Costs	\$325 467
Direct Expenses	\$488
Subconsultants	\$60 755
Total Design Cost Item 2	\$386 710
50% of Design Cost Item 2	\$193 355

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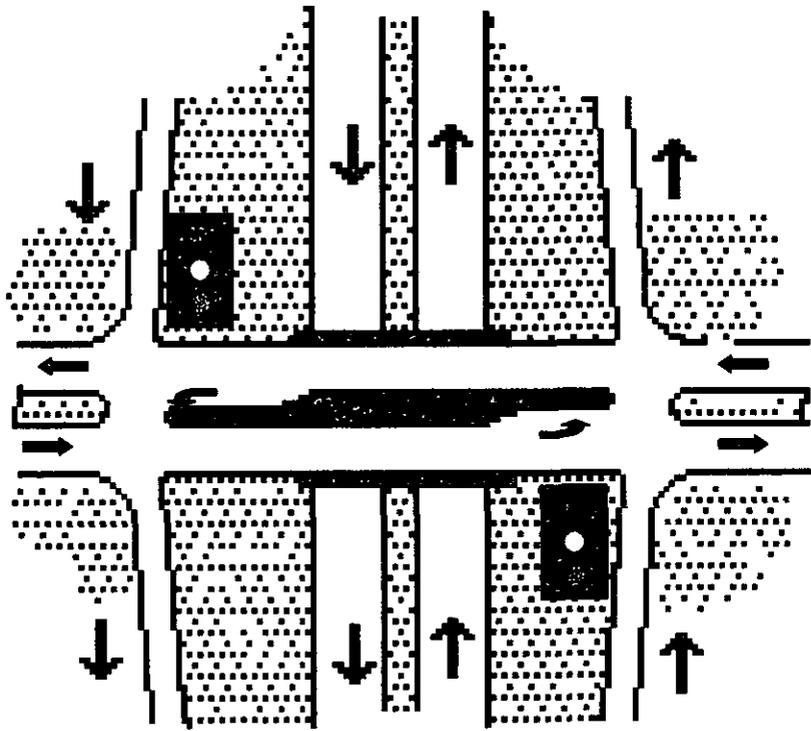
PARA. NO.	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ANL	303 A-NFA			



SR 303L - HAPPY VALLEY PARKWAY TO LAKE PLEASANT PARKWAY
No Scale

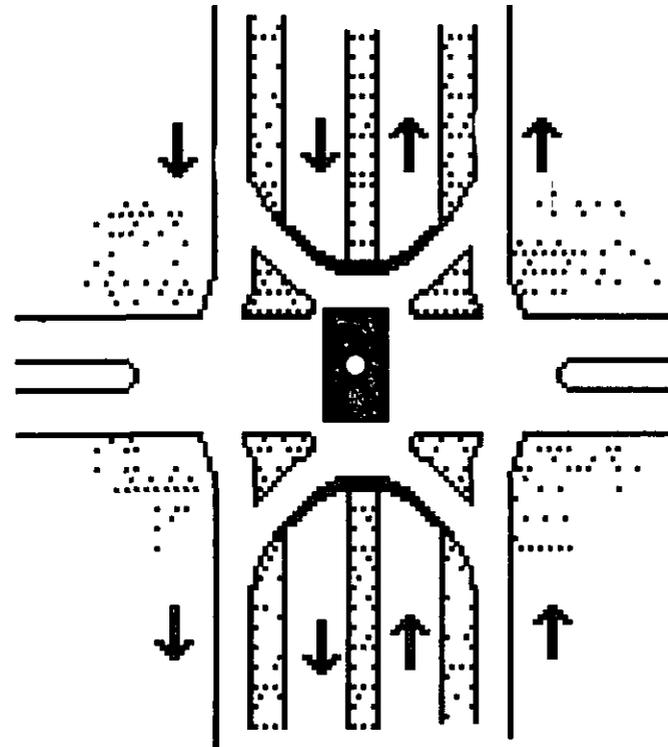
TRAIL CROSSINGS
H7156 OIC

AZTEC		ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES		PRELIMINARY STAGE V Review NOT FOR CONSTRUCTION OR RECORDING
PROJECT NO.	303L	303L		DWG. NO.
LOCATION	HAPPY VALLEY PKWY TO LAKE PLEASANT PKWY			
TRACS NO.		303 A NFA	OF	



Diamond Interchange

One signal on each end of interchange



Single Point Urban Interchange (SPUI)

One signal in middle of interchange



LOOP 303 UTILITY CROSSING LOCATIONS

LAKE PLEASANT PARKWAY
16-INCH WATER IN 30-INCH CASING
36-INCH WATER IN 54-INCH CASING
12-INCH SEWER

96TH AVENUE
30-INCH CASING FOR FUTURE 16-INCH WATER
12-INCH SEWER
20 INCH CASING FOR FUTURE DUAL 8-INCH FORCE MAINS

STATION 1700
30-INCH CASING FOR FUTURE 16-INCH WATER
12-INCH SEWER

LONE MOUNTAIN PARKWAY
16-INCH WATER IN 30-INCH CASING
36-INCH WATER IN 54-INCH CASING
12-INCH RECLAIMED WATER IN 24-INCH CASING

Legend

- ARTERIAL STREET
- COLLECTOR STREET
- LOOP 303

