



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

Award Contract Grant

Requested Board Meeting Date: January 2, 2018.

* = Mandatory, information must be provided

or Procurement Director Award

***Contractor/Vendor Name/Grantor (DBA):**

Arizona Department of Transportation (ADOT)

***Project Title/Description:**

RWRD/AZDOT Utility Agreement 3642-17-PCRWRD Ajo Way (SR86) TI (CWW.3AI195)

***Purpose:**

AZDOT Intergovernmental Agreement (IGA) to fund Phase II of public sanitary sewer relocations necessary to resolve conflicts within the ADOT roadway improvements on Highway I-19 located at State Route 86.

***Procurement Method:**

Not applicable (IGA - Procurement exempt)

***Program Goals/Predicted Outcomes:**

RWRD will monitor and inspect the public sanitary sewer work that will be constructed by the ADOT roadway contractor, to assure compliance with RWRD standard specifications and provide quality control.

***Public Benefit:**

The RWRD public sanitary sewer relocations are required to accommodate the roadway and intersection improvements on Interstate I-19 located at Ajo Way State Route 86.

***Metrics Available to Measure Performance:**

Final audit of total costs for the sewer work and compliance with the scheduled completion dates.

***Retroactive:**

No

To: CoB. 12.19.17
Ver. - 1
GJS. - 41 (2)

Contract / Award Information

Document Type: CT Department Code: WW Contract Number (i.e.,15-123): 18-173

Effective Date: 01/02/18 Termination Date: 06/26/20 Prior Contract Number (Synergen/CMS): _____

Expense Amount: \$* 327,852.00 Revenue Amount: \$ _____

*Funding Source(s) required: RWRD Obligations

Funding from General Fund? Yes No If Yes \$ _____ % _____

Contract is fully or partially funded with Federal Funds? Yes No

*Is the Contract to a vendor or subrecipient? _____

Were insurance or indemnity clauses modified? Yes No

If Yes, attach Risk's approval

Vendor is using a Social Security Number? Yes No

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

Amendment / Revised Award Information

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

Amendment No.: _____ AMS Version No.: _____

Effective Date: _____ New Termination Date: _____

Prior Contract No. (Synergen/CMS): _____

Expense or Revenue Increase Decrease Amount This Amendment: \$ _____

Is there revenue included? Yes No If Yes \$ _____

*Funding Source(s) required: _____

Funding from General Fund? Yes No If Yes \$ _____ % _____

Grant/Amendment Information (for grants acceptance and awards) Award Amendment

Document Type: _____ Department Code: _____ Grant Number (i.e.,15-123): _____

Effective Date: _____ Termination Date: _____ Amendment Number: _____

Match Amount: \$ _____ Revenue Amount: \$ _____

*All Funding Source(s) required: _____

*Match funding from General Fund? Yes No If Yes \$ _____ % _____

*Match funding from other sources? Yes No If Yes \$ _____ % _____

*Funding Source: _____

*If Federal funds are received, is funding coming directly from the Federal government or passed through other organization(s)? _____

Contact: Glen Peterson (Stephanie Olmedo, 724-4671)

Department: Regional Wastewater Reclamation Department Telephone: 724-6349

Department Director Signature/Date: [Signature] 12/7/17

Deputy County Administrator Signature/Date: [Signature] 12/13/17

County Administrator Signature/Date: [Signature] 12/15/17
(Required for Board Agenda/Addendum Items)

CONTRACT	
NO. <u>CT.WW-18-173</u>	
AMENDMENT NO. _____	
This number must appear on all invoices, correspondence and documents pertaining to this contract.	

A. G. CONTRACT NO. P001-2017-004669

ARIZONA DEPARTMENT OF TRANSPORTATION

UTILITY AND RAILROAD ENGINEERING SECTION

UTILITY AGREEMENT

Between

THE STATE OF ARIZONA

and

PIMA COUNTY

Agreement No.	3642-17-PCRWRD
UTILITY TRACS No.	019 PM 061 F0132 01C
UTILITY PROJECT NO.	NH-019-A(236)S
HIGHWAY	Interstate 19
Location	Ajo Way (SR 86) TI

THIS AGREEMENT is made between the STATE OF ARIZONA, acting through its DEPARTMENT OF TRANSPORTATION, and PIMA COUNTY, acting for its Regional Wastewater Reclamation Department.

All lettered Exhibits are incorporated and made a part of this agreement by reference and attachment regardless of designation or alphabetical order.

3642-17-PCRWRD

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Exhibit "A" Cost Estimate

Exhibit "B" Plans for Relocation

Exhibit "BA" for "Buy America" requirements of 23 CFR 635.410

Exhibit "C" Additional Prior Rights Documentation

Exhibit "D" Additional Scope of Design Services

I. RECITALS:

The purpose of this agreement is to enable the Arizona Department of Transportation to complete a highway project. In order to complete this project, it is necessary to RELOCATE existing UTILITY facilities belonging to the UTILITY.

Project funding is available in FY2015 and FY2017. The project has been split into Project 1 and Project 2. This agreement is for Project 2.

ADOT will RELOCATE the UTILITY facilities which conflict with the PROJECT construction as shown on Exhibit "B". The relocation work includes removing existing sewer and sewer manholes. The construction includes installing sewer manholes, PVC sewer and ductile iron sewer.

The UTILITY is responsible for the cost of RELOCATIONS under this AGREEMENT as identified in Exhibit "A".

Additional PRIOR RIGHT facilities are denoted as such in Exhibit "C". This is for relocation of sewer beneath I-19 because the existing sewer manhole would be in a travel lane in the proposed condition.

Additional Scope of Design Services are denoted as such in Exhibit "D" with the cost responsibility identified in Exhibit "A".

II. DEFINITIONS

A. ADOT means THE ARIZONA DEPARTMENT OF TRANSPORTATION.

B. ADOT EMERGENCY means a utility failure, which affects the safety of the motorist or the highway.

C. AGREEMENT means this specific agreement and all attachments incorporated by reference.

D. A.R.S. means Arizona Revised Statutes.

E. BACK CHARGE means to invoice and collect from the UTILITY for costs to ADOT caused by the UTILITY not completing WORK in accordance with AGREEMENT schedule.

F. CONSTRUCTION PROJECT NO. means the roadway construction project number utilized for ADOT construction PROJECT, which is NH-019-A(236)S.

G. CONSTRUCTION TRACS NO. means the roadway construction Accounting number utilized for ADOT construction PROJECT, which is 019 PM 061 F0132 01C.

H. CONTROLLED ACCESS means locations where owners or occupants of abutting lands and other persons have no legal right of access, e.g., freeway lanes and freeway ramps.

I. MUTCD means the "Manual on Uniform Traffic Control Devices" and any amendments and/or revisions thereto.

J. PRIOR RIGHTS means rights associated with one party's use or occupancy of land, or with the facilities located on such land, that are, because of priority in time or other reasons, superior to the rights of the other party.

K. PROJECT means this ADOT roadway construction project.

L. RELOCATE or RELOCATION means to move or adjust a UTILITY facility to avoid conflict with PROJECT construction.

M. RELOCATED FACILITIES means the facilities so moved or adjusted.

N. UTILITY means Pima County, acting for its Regional Wastewater Reclamation Department.

O. UTILITY EMERGENCY means any failure or condition affecting UTILITY's relocated facilities that has a substantial effect on UTILITY's functions and requires immediate action to remedy the failure or condition.

P. UTILITY PROJECT NO. means ADOT's utility relocation project number, which is NH-019-A(236)S.

Q. UTILITY TRACS NO. means ADOT's utility relocation Accounting number utilized for UTILITY's relocation work, which is 019 PM 061 F0132 01C .

R. WORK means pre-engineering, engineering, management, administration, design, preparation of plans, specifications, construction labor, construction inspection, materials and equipment called for in the AGREEMENT, including approved changes in scope.

S. WORKING DAY means a calendar day, exclusive of Saturdays, Sundays and ADOT recognized holidays, on which weather conditions will permit the UTILITY construction operations to proceed for a major part of the day with the normal working force.

III. AGREEMENT:

A. Construction Requirements. ADOT will RELOCATE the UTILITY facilities as shown on the plans marked Exhibit "B".

1. Staking. ADOT shall provide adequate horizontal and vertical survey control. The grade and alignment of the RELOCATION shall be staked by ADOT.

2. Remove Abandoned Facilities. Upon written approval from UTILITY, ADOT, at its sole expense, shall remove any of the existing facilities which are identified on EXHIBIT "B" to be removed by ADOT.

3. Ownership of Facilities. UTILITY shall be the sole owner of RELOCATED FACILITIES constructed under this AGREEMENT. Nothing herein shall be construed as conveying or granting any right, title or interest in the RELOCATED FACILITIES to anyone other than the UTILITY.

4. Maintenance. Maintenance operations and associated costs for the UTILITY facilities covered by the AGREEMENT will be the responsibility of the UTILITY.

B. Transfer of Land Interests. The UTILITY will grant and convey to ADOT any rights, title and interest which, the UTILITY has in the land within ADOT's Right-of-Way limits of the PROJECT that is no longer occupied by the UTILITY.

1. Temporary Construction Easement. ADOT shall provide at no expense to UTILITY, any temporary construction easement necessary for the performance of the RELOCATION.

C. Permit. The UTILITY will obtain a permit from ADOT and will provide applicable insurance for those facilities remaining within the highway Right-of-Way or for any work proposed within ADOT's Right-of-Way of the PROJECT.

1. Normal permit for non-prior rights facilities. ADOT will grant to the UTILITY a normal permit for non-prior rights facilities remaining within the highway Right-of-Way.

2. Joint Occupancy. The UTILITY understands ADOT's and all of its agents' right to construct, maintain, and operate highway facilities over/under the UTILITY facilities within the highway Right-of-Way. ADOT retains the right to permit other occupancies.

3. Permit with Prior Rights. ADOT will grant to the UTILITY an ADOT Highway Right-of-Way Permit with PRIOR RIGHTS for its facilities with PRIOR RIGHTS. The UTILITY and ADOT agree that no provision of the Permit with PRIOR RIGHTS or any amendments thereto shall in any way be interpreted as being inconsistent with this AGREEMENT. If at any time hereafter, the right-of-way, or any portion thereof, occupied and used by the UTILITY may be needed or required by ADOT, the UTILITY shall and will relocate all property belonging to the UTILITY at the full cost and expense of ADOT.

D. Traffic. The UTILITY shall not maintain, construct, reconstruct, inspect or operate any of its facilities from highway traffic lanes or ramps within the CONTROLLED ACCESS Right-of-Way. In case of an ADOT EMERGENCY involving UTILITY's facilities, UTILITY shall have reasonable use of the roadway notwithstanding the foregoing restriction. In case of a UTILITY EMERGENCY, UTILITY shall have use of ADOT Right-of-Way outside the highway traffic lanes or ramps as it reasonably deems necessary to correct, repair, replace or reconstruct facilities affected by the UTILITY EMERGENCY. The UTILITY shall, as soon as practical during any ADOT EMERGENCY or UTILITY EMERGENCY repairs, provide appropriate safety devices to protect the highway user as set forth in the MUTCD (Including all official changes thereto), for all work within ADOT Right-of-Way.

E. Start/Completion Date. The RELOCATION will be accomplished during the PROJECT construction by ADOT.

F. Subcontracting. RELOCATION will be performed by ADOT's contractor and/or subcontractor.

G. Blue Stake. For WORK performed by ADOT's contractor for the PROJECT, it is understood that ADOT is acting as a third party on behalf of the UTILITY, administering the construction of UTILITY's facilities. At no time is ADOT to be considered the owner of, or locator for, the UTILITY's facilities. ADOT's contractor for the PROJECT shall locate any underground facilities installed by ADOT's contractor (or subcontractor of any tier) for ADOT's PROJECT as prescribed by A.R.S. 40-360.21 through 40-360.32, until (i) the PROJECT is accepted by ADOT and ADOT has given UTILITY one month's prior notice or (ii) until the time the facility is tested and placed into service by UTILITY, at which time (whichever is earlier) UTILITY shall assume Blue Staking responsibility. The transfer of Blue Stake responsibility to UTILITY shall not affect UTILITY's rights to inspect the RELOCATED FACILITIES, to require correction of any defects, or any other rights under this AGREEMENT.

H. The Acceptance Date. The acceptance date of this AGREEMENT shall be the day which the last party executes the AGREEMENT.

IV. SCHEDULES AND PAYMENTS:

A. UTILITY CONSTRUCTION Schedule. Any service connections and system startup is the UTILITY responsibility and will accommodate the PROJECT construction schedule.

B. Payments. ADOT will be responsible for the cost of RELOCATION and any WORK performed by the UTILITY for PRIOR RIGHTS facilities. The estimated cost for WORK

performed by the UTILITY for PRIOR RIGHTS facilities is shown on Exhibit "A". ADOT is not responsible for any costs which are betterments or enhancements to the RELOCATED FACILITIES. The parties agree that the items listed on Exhibit "A" (except for any items identified to be paid by UTILITY) do not constitute betterments or enhancements within the meaning of this AGREEMENT.

1. Changes in Scope of Work. In the event conditions or circumstances require a change in the scope of work on the RELOCATION as set forth in Exhibit "B", each party shall agree in writing to the changes, including payment responsibilities prior to doing the work.

2. Cost Increases. ADOT approval is required for any invoice total which exceeds the cost estimate set forth in Exhibit "A" plus any approved changes by more than ten percent (10%). Invoices which exceed the original or revised estimated cost by more than ten percent (10%) without prior written approval shall be returned to the UTILITY pending resolution.

3. Submission of Invoices. The UTILITY may submit to ADOT monthly itemized invoices for the WORK costs from the date of ADOT's authorization for the UTILITY to proceed with the engineering and/or RELOCATION. Except for the final invoice, monthly invoices shall only be submitted for costs of five hundred dollars (\$500) or more. The UTILITY shall, within ninety (90) days after completion of WORK, submit to ADOT detailed invoices covering the actual cost of all WORK, including applicable taxes and standard UTILITY overhead and subcontracting administration fee. Invoices shall include the appropriate AGREEMENT and UTILITY TRACS numbers and shall be labeled as "Progress Invoice" or "Final Invoice", as

the case may be. A detailed cost run summary will be prepared and submitted together with the final invoice. Costs shall be accumulated and invoiced in accordance with the Federal Acquisition Regulations. The United States Code of Federal Regulations, 23CFR 645 A is incorporated into this AGREEMENT by reference. In the absence of a compliant accounting system, ADOT will allow a charge for Overhead and Indirect Costs equal to 5% of the total labor, labor surcharges and materials. This charge does not include any amount based on allowable subcontracts included in the AGREEMENT. If the UTILITY wishes to use an existing continuing contract with a subcontractor, they shall provide ADOT with support as to the reasonableness of the cost. ADOT will provide specific approval if the costs are deemed reasonable.

4. Payment of Invoices. ADOT agrees to pay the UTILITY the invoiced amount within ninety (90) days of receipt, provided the UTILITY has complied with all conditions of this AGREEMENT.

5. Reimbursements. The UTILITY shall reimburse ADOT, within ninety (90) days of receiving written notification, for any amounts ADOT disallows as a result of its audit. Any audit exceptions with which the UTILITY disagrees shall be paid to ADOT, under protest, subject to resolution by ADOT and the UTILITY through compromise, arbitration or adjudication as provided for in this AGREEMENT.

V. LIABILITY :

A.. Liability. ADOT and the UTILITY each agree to be liable to the other party for its own acts of negligence and the negligence of its own employees.

VI. STATUTORILY MANDATED TERMS:

A. Arbitration. The parties shall use arbitration after exhausting applicable administrative remedies to resolve disputes arising out of this AGREEMENT where the sole relief sought is monetary damages of \$100,000 or less exclusive of interest

B. Budget Limitations. This AGREEMENT is subject to the provisions of Chapter 1 of Title 35, Arizona Revised Statutes.

C. Executive orders 75-5 and 2009-9. The UTILITY shall comply with all applicable provisions of Executive Order 75-5 and 2009-9, "Non-Discrimination in Employment by Government Contractors and Subcontractors".

D. Cancellation by Governor. All parties hereby are put on notice that this AGREEMENT is subject to cancellation by the Governor pursuant to A.R.S. § 38-511.

VII. MISCELLANEOUS CONDITIONS:

A. Communication for this AGREEMENT. Communication required to be given pursuant to this AGREEMENT shall be:

Arizona Department Of Transportation
Utility and Railroad Engineering Section
Attn.: Engineer – Manager
205 South 17th Avenue, Mail Drop 618E
Phoenix, AZ 85007
(602) 712-8161
VBever@azdot.gov

Pima County Regional Wastewater
Reclamation Department
Attn: Glen Peterson
Public Works Building
201 N. Stone Avenue 3rd Floor
Tucson, AZ 85701-1207
(502) 724-6349
Glen.peterson@pima.gov

B. AGREEMENT Content and Modification. This AGREEMENT, including any schedules, exhibits or attachments hereto, constitutes the entire agreement between the parties, and no understanding or obligation not expressly set forth herein shall be binding upon them. No

modification, amendment or alteration of this AGREEMENT shall be valid unless it is in writing and signed by both parties.

C. Laws. This AGREEMENT shall be governed by the laws of the State of Arizona.

D. Breach of AGREEMENT. The waiver by either party of any breach or failure to provide full performance under any of the terms or conditions of this AGREEMENT shall not be construed as a waiver of any other term or condition, or of any subsequent breach of the same or any other term or condition.

E. Records Retention and Audit. All books accounts, reports, files and other records relating to this AGREEMENT shall be subject at reasonable times to inspection and audit by ADOT for five (5) years after the receipt of final payment. Such records shall be produced by the UTILITY at any ADOT office as designated by ADOT. At ADOT's discretion said inspection and audit may be held at UTILITY's office during normal business hours. ADOT shall conduct its inspection and audit at its expense, including UTILITY's audit costs.



Assistant Attorney General
Attorney for Department
of Transportation

Date 11/30/17

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT.

ARIZONA DEPARTMENT OF TRANSPORTATION - JOHN S. HALIKOWSKI, DIRECTOR

By: _____
Victoria D. Bever
Utility & Railroad Engineering Manager

Date: _____

PIMA COUNTY

APPROVED:

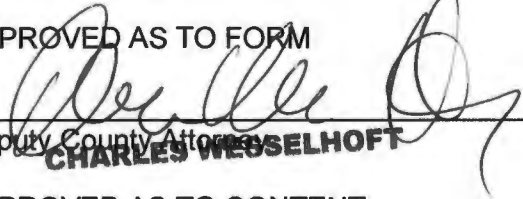
Chair, Board of Supervisors

Date: _____

ATTEST

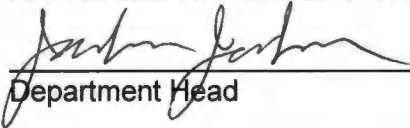
Clerk of Board

Date: _____

APPROVED AS TO FORM


Deputy County Attorney
CHARLES WESSELHOFT

Date: DEC 01 2017

APPROVED AS TO CONTENT


Department Head

Date: 12/7/17

ACKNOWLEDGMENT BY STATE

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me this _____ day of
_____, 20 _____, by Victoria D. Bever, Manager of Utility & Railroad
Engineering, Arizona Department of Transportation.

My Commission Expires:

Notary Public

EXHIBIT A

**AGREEMENT NO. 3642-17-PCRWRD
119 AJO WAY (SR 86) TI
019 PM 061 H8467 01C
PCRWRD**

SUMMARY OF ESTIMATED COST

Estimated PCRWRD Construction Costs for No Prior Rights (included in construction Phase II project estimate)	\$ 282,928
15% Construction Engineering	\$ 42,439
Total Estimate Construction Costs due to ADOT	\$ 325,367
<hr/>	
Additional Design Services Costs (included in construction Phase II project estimate)	\$ 5,686
15% Administrative Cost	\$ 853
Total Additional Design Services Costs	\$ 6,539
Non Prior Rights (38%) Design Services Costs due to ADOT	\$ 2,485
<hr/>	
PCRWRD Total Due ADOT	\$ 327,852

EXHIBIT A
3642-17-PCRWRD

PROJECT NO. 019 PM 061 F0132 01C

FEDERAL AID NO. NH-019-A(236)S

AJO WAY (SR 86) TI

PCRWRD COST ESTIMATE

PCRWRD COSTS FOR NO PRIOR RIGHTS

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
2020116	REMOVE (SEWER MANHOLE)	EACH	5	\$1,500.00	\$7,500.00
5090091	MANHOLE (SEWER) (ADJUSTMENT)	EACH	5	\$400.00	\$2,000.00
8080699	SEWER SERVICE (RENEWAL)	EACH	5	\$1,000.00	\$5,000.00
8080186	SEWER PIPE (4" PVC) (SDR-35)	L.FT.	166	\$80.00	\$13,280.00
8090187	SEWER PIPE (8" PVC) (SDR-35)	L.FT.	886	\$100.00	\$88,600.00
8090189	SEWER PIPE (8") (DUCTILE IRON) (CL 350)	L.FT.	38	\$300.00	\$11,400.00
8091111	MANHOLE, SANITARY SEWER, 4' DIA	EACH	5	\$8,000.00	\$40,000.00
9240052	MISCELLANEOUS WORK (FLOW MANAGEMENT PLAN 1.0)	L.SUM	1	\$10,000.00	\$10,000.00
9240053	MISCELLANEOUS WORK (FLOW MANAGEMENT PLAN 2.0)	L.SUM	1	\$10,000.00	\$10,000.00
9240054	MISCELLANEOUS WORK (FLOW MANAGEMENT PLAN 3.0)	L.SUM	1	\$10,000.00	\$10,000.00
9240111	MISCELLANEOUS WORK (ABANDON EXISTING SANITARY SEWER AND MANHOLE) (IN PLACE)	L.FT.	376	\$15.00	\$5,640.00
9240112	MISCELLANEOUS WORK (REMOVE SEWER)	L.FT.	2,076	\$35.00	\$72,660.00
9240115	MISCELLANEOUS WORK (RECONSTRUCT SEWER MANHOLE)	L.FT.	10	\$500.00	\$5,000.00
9240144	MISCELLANEOUS WORK (SEWER CCTV INSPECTION)	L.FT.	924	\$2.00	\$1,848.00
				SEWER SUBTOTAL:	\$282,928.00

**3642-17-PCRWRD
EXHIBIT A**

PROJECT NO. 019 PM 061 F0132 01C

FEDERAL AID NO. NH-019-A(236)S

AJO WAY (SR 86) TI

PCRWRD COST ESTIMATE

ADOT COSTS FOR PRIOR RIGHTS

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
8090187	SEWER PIPE (8" PVC) (SDR-35)	L.FT.	341	\$100.00	\$34,100.00
8091111	MANHOLE, SANITARY SEWER, 4' DIA	EACH	4	\$8,000.00	\$32,000.00
9240055	MISCELLANEOUS WORK (FLOW MANAGEMENT PLAN 4.0)	L.SUM	1	\$10,000.00	\$10,000.00
9240111	MISCELLANEOUS WORK (ABANDON EXISTING SANITARY SEWER AND MANHOLE)(IN PLACE)	L.FT.	315	\$15.00	\$4,725.00
9240144	MISCELLANEOUS WORK (SEWER CCTV INSPECTION)	L.FT.	341	\$2.00	\$682.00
				SEWER SUBTOTAL:	\$81,507.00

**3642-17-PCRWRD
EXHIBIT A**

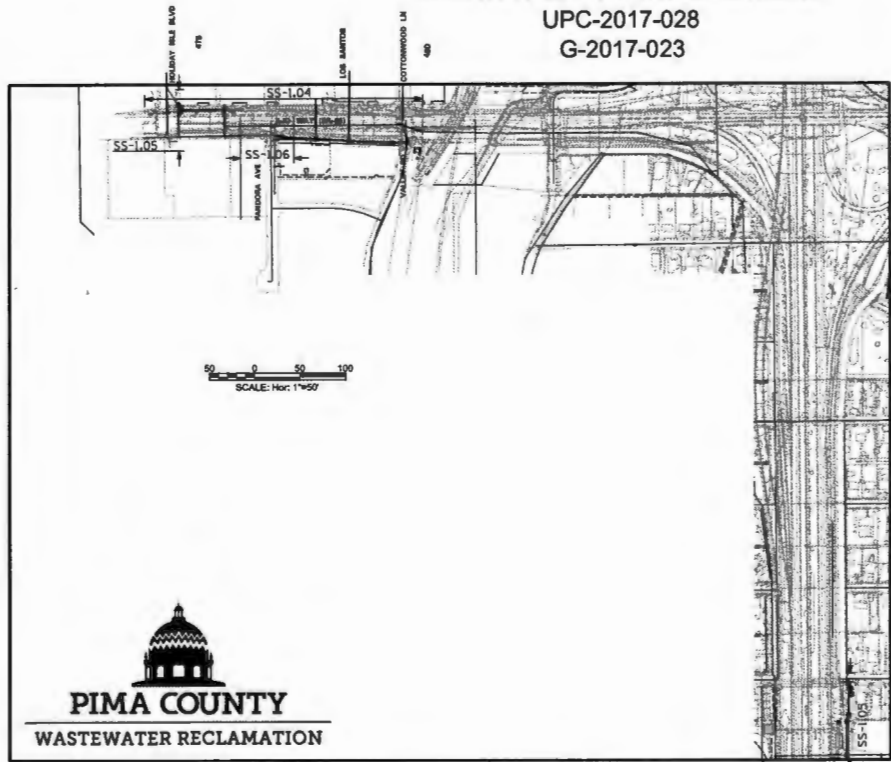
EXHIBIT B
AGREEMENT NO. 3642-17-PCRWRD
119 AJO WAY (SR 86) TI

PLANS FOR RELOCATION

EXHIBIT B
3642-17-PCRWRD

**AJO WAY (SR-86)
SANITARY SEWER MODIFICATIONS
UPC-2017-028
G-2017-023**

PROJECT NO.	019-A23615	SHEET NO.	019 PN 021
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LOCATION MAP
SECTIONS 24 & 25, T14S, R16E
MARICOPA COUNTY, ARIZONA
SANITARY SEWER SYSTEM
LONGITUDE - 111°58'00\"/>

SHEET INDEX

DWG NO.	DESCRIPTION
SS-1.01	COVER SHEET
SS-1.02	GENERAL NOTES
SS-1.03	QUANTITIES
SS-1.04 & 1.07	PLAN AND PROFILE
SS-1.08	REMOVAL PLAN SHEET
SS-1.09	FLOW MANAGEMENT PLAN

- PIMA COUNTY BOARD OF SUPERVISORS
- ALLY HILLER, DISTRICT 1
 - FAMON VALADEZ, DISTRICT 2
 - BRANDON BIRCHBOM, CHAIRMAN, DISTRICT 3
 - STEVE CHAPPEL, DISTRICT 4
 - RICHARD ELKINS, DISTRICT 5

PROJECT IN SUPERVISOR DISTRICT 4
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPT.

DESIGNED BY	DATE	BY
ENGINEERING		
CHECKED BY	DATE	BY
CONFORMANCE INSPECTOR		



**3642-17-PCRWRD
EXHIBIT B**
G-2017-023

No.	Sanitary Description	Quantity	Notes

PIMA COUNTY
Regional Wastewater
Reclamation Department
221 N. Stone Ave., 2nd Fl., Tucson, Arizona 85702
Phone (520) 794-2820

DATE	DATE	DATE	DATE
DESIGN	ISSUE	REVISION	REVISION

ARIZONA DEPARTMENT OF TRANSPORTATION
WESTERN TRANSPORTATION DIVISION
ROADWAY & SIGNAGE DIVISION

SANITARY SEWER MODIFICATIONS

SCALE: 1"=10'

1-19

TRACS NO. F0132 DIC

019-A23615

PRELIMINARY
STAGE V
100% Review
NOT FOR
CONSTRUCTION
OR RECORDING
DATE: 08-16-17
OF

18/177287 UNPLANNED CONSTRUCTION Ajo Way of 1-19-17-023-SS-CAD.dwg

GENERAL SEWER NOTES

- ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT POWING ENGINEERING DESIGN STANDARDS 806 BSS AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (SSC) BSS. SAID DOCUMENTS ARE AVAILABLE THROUGH THE POWING WEBSITE www.pima.gov/wwrr/wwrrmain.htm.
- BASES OF ELEVATION 3" AND AUM CAP OF CONC. HEADHILL WEST SIDE OF I-19 @ +/- 0.00 S. PER BROAD STAIRS "ELEY ENDSIDE 088" ELEVATION 118.21M IS 88.88.
- BASES OF FINISH AND SURVEY RESULTS OF SURVEY DRAINAGE 84: 0+20-T-409 TRACES 84, 09 PM ON 04/26/09-0300 SEE AUM 1M7 PLAN SHEET 0-210.
- ANY CONSTRUCTION ACTIVITY HAS THE POTENTIAL TO DAMAGE EXISTING PUBLIC SANITARY SEWERS OR ANY ACTIVITY THAT REQUIRES MATERIALS OR EQUIPMENT TO ENTER EXISTING PUBLIC SANITARY SEWERS SHALL REQUIRE A PIMA COUNTY RWRO SEWER CONSTRUCTION PERMIT PRIOR TO COMMENCING THAT ACTIVITY.
- SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY HAS ISSUED A CONSTRUCTION AUTHORIZATION FOR THIS PROJECT, (B) THE CONTRACTOR HAS OBTAINED A PIMA COUNTY RWRO SEWER CONSTRUCTION PERMIT FROM THE PIMA COUNTY RWRO SEWER DIVISION, (C) THE PIMA COUNTY RWRO SEWER CONSTRUCTION PERMIT APPLICATION REQUIREMENTS AND THE CONTRACTOR'S FLOW MANAGEMENT PLAN HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING AND APPROVED BY POWING FIELD ENGINEERING, AND (D) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY RWRO SEWER DIVISION INSPECTOR IS SCHEDULED AT LEAST THIRTY (30) CALENDAR DAYS PRIOR TO COMMENCING WITH SEWER CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN (FMP) TO POWING FIELD ENGINEERING FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK THAT MAY AFFECT LIVE SEWERS. THE FMP SHALL IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BIDD. THE FMP SHALL BE SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE SEWER PRE-CONSTRUCTION MEETING. FIELD ENGINEERING WILL REVIEW THE FMP WITHIN TEN (10) BUSINESS DAYS TO ACCOMMODATE REVIEW AND REVISION CYCLES. REFER TO POWING SSC BSS, SECTION 8 FOR FMP REQUIREMENTS. PLEASE CONTACT POWING FIELD ENGINEERING AT (520) 724-3939 FOR ANY QUESTIONS REGARDING FLOW MANAGEMENT.
- THE CONTRACTOR SHALL FURNISH, OPERATE AND MAINTAIN ALL EQUIPMENT AND LABOR NECESSARY TO PROVIDE CONTINUOUS 24 HOURS PER DAY SANITARY SEWER SERVICE TO ALL PARTIES TRIBUTARY TO A LIVE SEWER TO WHICH A CONNECTION IS TO BE MADE. THE POWING CONFIDENCE DIVISION SHALL BE NOTIFIED AT (520) 724-3900 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES THAT IMPACTS THE FLOW WITHIN A LIVE SANITARY SEWER SYSTEM OR INVOLVES CONNECTING TO A LIVE SANITARY SEWER. SEE POWING SSC BSS, SECTION 8 FOR MORE INFORMATION.
- THE INSPECTOR OF THE CONTRACTOR'S WORK BY AN AGENCY AND/OR POWING STAFF SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE APPROVED CONTRACT DOCUMENTS. IF THE DESIGN ENGINEER OR POWING STAFF FAIL TO POINT OUT A DEFECT, DEFICIENCY OR ERROR IN THE WORK FROM LACK OF DISCOVERY OR ANY OTHER REASON, IT SHALL IN NO WAY PREVENT LATER REACTION OR RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR THE UNSATISFACTORY WORK WHICH OCCURRED. THE CONTRACTOR SHALL NOT FILE A CLAIM FOR LOSSES SUFFERED DUE TO ANY NECESSARY REVISIONS OR REPAIRS RESULTING FROM THE UNSATISFACTORY WORK.
- SEWER PLANS THAT BEAR THE PIMA COUNTY DEVELOPMENT SERVICES DEPARTMENT DESIGN APPROVAL STAMP OR THE PIMA COUNTY RWRO ACCEPTANCE SIGNATURE SHALL ONLY BE USED FOR THE CONSTRUCTION OF PUBLIC SANITARY SEWER FACILITIES. APPROVED PLANS REQUIRING DESIGN REVISIONS SHALL BE RESUBMITTED TO PIMA COUNTY DSD OR RWRO AS APPROPRIATE FOR REVIEW AND RE-APPROVAL PRIOR TO START OF THE REVISED SEWER WORK.

- ANY SEWER CONSTRUCTION WORK THAT IS NOT INCLUDED IN THE APPROVED SEWER PLANS WILL NOT BE ACCEPTED BY POWING. SEE POWING SSC BSS, SECTION 1.4.5 REGARDING THE APPROVAL OF FIELD CHANGES.
- IMMEDIATELY NOTIFY ANY OF THE FOLLOWING TO THE POWING OPERATIONS CONTROL CENTER 800 AT (520) 724-3600. ANY RELEASE OF SEWAGE, ANY CHANGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE OCCURRENCE OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A POWING REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWER OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, WITHIN THE RELEASE OF SEWAGE, OBTAIN THE RELEASE AREA, AND ANY REGULATOR PENALTIES LEVIED ON POWING FOR SEWAGE ENTERING A NATURAL DRAINAGE RIVER OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE POWING FIELD REPRESENTATIVE.
- THE CONTRACTOR SHALL CONTACT "ARIZONA 800-624-8101 OR 1-800-786-5348" A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL UNDERGROUND FACILITY LOCATOR REQUESTS UP-TO-DATE AND COMPLY WITH ARIZONA REVISED STATUTES (A.R.S.) TITLE 46, CHAPTER 1, ARTICLE 6.3, SECTION 46-300.02. CONCERNS REGARDING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY INFORMATION AND THE PROJECT PLANS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AT ALL TIMES.
- THE CONTRACTOR SHALL FIELD-VERIFY EXISTING SEWER LINE ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION. VERIFICATION MAY REQUIRE POT-HOLES.
- ANY HOUSE CONNECTION SEWER (HCS) OR BUSINESS CONNECTION SEWER (BCS) LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR RELOCATED AS THE SITUATION DICTATES. PER POWING SSC BSS DETAIL 801, RWRO 410 AND AT 40 EXPENSE TO THE PROPERTY OWNER OR PERSONS. HCS AND BCS LINES ARE NOT TO BE OPENED OR DAMAGED BY POWING. PRIVATE CONNECTION SEWERS CONSTRUCTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE LOCATED AND MAINTAINED.
- SURVEY LAYOUT AND SURVEY CONTROL SHALL BE PERFORMED BY, OR UNDER, THE DIRECT SUPERVISION OF AN ARIZONA R.L.S.
- SURVEY CUT SHEETS SHALL BE PREPARED IN ACCORDANCE WITH POWING SSC BSS, SECTION 3.2.3.5. CERTIFIED CUT SHEETS SHALL BE SUBMITTED TO THE POWING FIELD ENGINEER PRIOR TO COMMENCEMENT OF SEWER CONSTRUCTION. CUT SHEETS ARE FOR POWING REFERENCE ONLY AND SHALL NOT DELAY SEWER CONSTRUCTION DUE TO REVIEW OF THE DELIVERABLE. ANY ERRORS OR OMISSIONS RESULTING IN IMPROPER SEWER CONSTRUCTION SHALL NOT BE THE RESPONSIBILITY OF POWING. REFER TO POWING SSC BSS, SECTION 3.2.3.5.9 (A) FOR CONSTRUCTION SURVEY STAMP REQUIREMENTS.
- THE DEVELOPER OR CONTRACTOR SHALL RETAIN AN ARIZONA-REGISTERED LAND SURVEYOR (RLS) FOR PREPARATION OF THE SEWER AS-BUILT PLANS. SEWER AS-BUILT PLANS SHALL CONFORM TO SSC BSS, SECTION 1.4.7 AND ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY POWING. THE DEVELOPER OR CONTRACTOR SHALL SUBMIT TWO FULL-SIZE COPIES, AND AN ELECTRONIC VERSION, OF THE AS-BUILT SEWER PLANS TO THE POWING FIELD ENGINEER.
- NEW PUBLIC SANITARY SEWER FACILITIES MUST BE TESTED, INSPECTED AND AUTHORIZED FOR DISCHARGE BY POWING AND AEDD, OR IT'S DELICATE. PRIOR TO DISCHARGING INTO THE EXISTING PUBLIC SANITARY SEWER SYSTEM. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AT ALL TIMES.

- BEFORE THE INSTALLATION OF SANITARY SEWERS, ALL HOUSE BRONDS, BOLLING FALLS, SHALL BE COMPLETED TO A MINIMUM OF 4 FEET OVER THE TOP OF THE SEWER PIPE, BEDDING, SHADING, AND TRENCH BACKFILL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITY LOCATOR SYSTEMS OR AS OTHERWISE DIRECTED BY POWING. WHEN THE NEW SEWER IS LOCATED WITHIN RIGHT-OF-WAY, CONTRACTOR OF BACKFILL SHALL BE IN ACCORDANCE WITH THE RIGHT-OF-WAY AGENCY HAVING JURISDICTION.
- SANITARY SEWER CONSTRUCTION SHALL START AT THE LOWEST DOWNSTREAM POINT AND PROCEED UPSTREAM, RESPECTIVE OF THE STATUTORY DRAIN OF THE PLANS. IF CONSTRUCTION CANNOT BE PERFORMED IN THIS MANNER, THE CONTRACTOR SHALL PROVIDE AN OUT-OF-SEQUENCE LETTER FOR APPROVAL BY THE POWING FIELD ENGINEER PRIOR TO THE START OF SEWER CONSTRUCTION.
- THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN PUBLIC WATER MAINS AND PUBLIC SEWER LINES SHALL COMPLY WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.) 18-5-508 AND POWING SSC BSS, DETAIL 801, RWRO 401.
- PLUMBING WITHIN PUBLIC SEWER CASES/STOPS SHALL ONLY BE ALLOWED WITH SPECIAL APPROVAL. TRENCH WITH BRANDES OR ROOTS HAVING THE POTENTIAL TO EXTEND INTO PUBLIC SEWER CASEMENTS SHALL BE AVOIDED. IN SPECIAL CASES, WHERE THE PUBLIC SEWERS MUST BE LOCATED OUTSIDE PAVED OR STABILIZED AREAS, LANDSCAPING AND PLANTING SHALL adhere TO REGULATIONS IN POWING SSC BSS, SECTION 1.7.7 AND POWING SSC BSS, DETAIL 801, RWRO 401.
- ALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES SHALL BE INSTALLED TO PREVENT ALL STORM WATER, CONSTRUCTION WATER, FUELS, CHEMICALS, LIQUIDS, OR OTHER CONTAMINANTS, FROM BEING DROPPED INTO OR ONTO ANY SANITARY SEWER FACILITIES. PROTECTION OF SANITARY SEWER FACILITIES SHALL BE A PART OF THE APPROVED CONSTRUCTION SWPPP AND BEST MANAGEMENT PRACTICES. PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL POTENTIALLY AFFECTED SANITARY SEWER FACILITIES WITHIN THE PROJECT LIMITS. ADDITIONAL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE USE OF RAIL STOPPERS AND MANHOLE COVERS AS DEEMED NECESSARY BY POWING.
- ALL PROJECT ACTIVITIES MUST BE KEPT WITHIN THE PROJECT AREAS. CONCERNING HUMAN BURIAL REMAINS, ARCHAEOLOGICAL CLEARANCE RECOMMENDATIONS DO NOT EXEMPT THE DEVELOPMENT FROM COMPLIING WITH STATE BURIAL PROTECTION LAWS. IN THE EVENT THAT HUMAN REMAINS, INCLUDING HUMAN SKELETAL REMAINS, OR OTHER OBJECTS OF POTENTIAL AFFINITY TO THE REMAINS OR BASE APPROPRIATE APPROXIMATIONS FOR THE REPAIR AND REPAIR OF THE REMAINS, THE REMAINS SHALL BE REMOVED FROM THE SITE BY A REGISTERED ARCHAEOLOGIST PERFORMING CONSULTATION AND REVIEW BY THE ARIZONA STATE MUSEUM AND THE CONCERNED CULTURAL GROUPS.

PROJECT SPECIFIC NOTES

- SPECIAL CARE SHALL BE TAKEN TO ENSURE DESIGN SLOPES ARE MAINTAINED. SEWERS CONSTRUCTED AT INSUFFICIENT SLOPES WILL NOT BE ACCEPTED BY POWING. FIELD ENGINEERING ADVISES CORRECTIVE ACTION, INCLUDING RE-CONSTRUCTION OF THE SEWERS, WILL BE AT THE SOLE EXPENSE OF THE PROJECT OWNER/CONTRACTOR.
- THE CONTRACTOR SHALL ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED SINGLE, ALL FINISHES AND COVER ADJUSTMENTS SHALL BE IN ACCORDANCE WITH POWING SSC BSS, DETAIL 801, RWRO 411, 222, 304 OR 308 AS APPLICABLE. THE CONTRACTOR SHALL PROTECT THE BEACH AND FLUR CHANNELS WITH A COVER PER POWING SSC BSS, DETAIL 801, RWRO 401. PRIOR TO COMMENCING ANY WORK TO THE MANHOLE AND REPAIR THE COVER AFTER ALL WORK IS COMPLETED. THE CONTRACTOR SHALL ENSURE THAT FINISHES AND COVERS ARE CLEAR AND FREE FROM ANY AND ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ALL VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS, AS APPROVED BY THE POWING FIELD ENGINEER. EXISTING FINISHES AND COVERS THAT ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED SHALL BE REPLACED WITH A NEW FRAME AND COVER IN ACCORDANCE WITH POWING SSC BSS, DETAIL 801, RWRO 413. COSTS ASSOCIATED WITH EXISTING FINISHES AND COVERS THAT ARE LOST OR DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL LANDSCAPING LOCATED WITHIN TEN (10) FEET HORIZONTAL OF THE PUBLIC SANITARY SEWER AND MANHOLES AND/OR WITHIN THE PUBLIC SEWER CASEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH THE PLANTING REGULATIONS CONTAINED WITHIN POWING SSC BSS, SUBSECTION 1.7.7.
- WHERE CONNECTIONS TO EXISTING MANHOLES ARE TO BE MADE, THE CONTRACTOR SHALL CONSTRUCT NEW INVERTS IN THE EXISTING BASE TO DIRECTLY CONNECT THE FLOW IN THE PROPER DIRECTION.
- CASTLE IRON PIPE 4 INCHES AND GREATER IN DIAMETER, FITTINGS AND METAL COUPLINGS SHALL HAVE AN APPROVED INTERIOR LINING. ALL OP SHALL BE INSTALLED WITH AN APPROVED EXTERIOR POLYETHYLENE WRAPPING.
- MANHOLE SURFACES SHALL BE COULDED, SEALED AND COVERED PER POWING SSC BSS, SUBSECTION 3.2.3.16, AND SSC BSS, SUBSECTION 3.1.3.3.9.9.
- THE WORDS "PIMA COUNTY SANITARY SEWER" SHALL BE IMPRINTED ONLY ON COVERS OF MANHOLES WHICH ARE TO BE PART OF THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION (RWRO) SANITARY SEWER CONFIDENCE SYSTEM. SEWER MANHOLE COVERS OR CONFIDENCE SANITARY SEWER MANHOLES OPERATED BY AGENCY OTHER THAN PIMA COUNTY SHALL HAVE COST INTO THEM THE WORDS "PRIVATE SEWER".
- EXISTING PRESSURE SEWERS AND UNIMPROVED SANITARY SEWER MAIN LOCATIONS WILL BE IDENTIFIED AND MAINTAINED PER POWING SSC BSS, DETAIL 801, RWRO 410.
- FOR MANHOLES THAT ARE SHOWN ON THE PLANS TO BE REPAIRED, THE CONTRACTOR SHALL REMOVE THE FRAME AND COVER. THE SALVAGED FRAME AND COVER SHALL BE DELIVERED TO POWING AT THE LOCATION SPECIFIED BY THE INSPECTOR. THE MANHOLES WILL BE COMPLETELY DEMOLISHED, THE CENTER FILLED WITH SELECT MATERIAL AND COMPACTED IN ACCORDANCE WITH THE STANDARDS SET BY THE AGENCY CONTROLLING THE RIGHT-OF-WAY. IN ALL CASES A MINIMUM OF 80% OF THE STANDARD PROJECT DESIGN, IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA TEST METHOD BSS. SHALL BE ACHIEVED. THE CONTRACTOR SHALL DISPOSE OF ALL MANHOLE DEMOLITION MATERIAL OFF-SITE AT A LANDFILL OR OTHER APPROVED LOCATION.

DATE	FILE NO.	PROJECT NO.	REV.	BY	DESCRIPTION
9		09-A236IS			

3642-17-PCRWRD
EXHIBIT B

G-2017-023

No.	Revision Description	Drawn	Date

PIMA COUNTY
Regional Sewer/Stormwater
Department

505 S. Stone Ave., 2nd Fl., Tucson, Arizona 85724
Phone (520) 724-6840

DATE	DATE	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERNAL TRANSPORTATION DIVISION ROADWAY/TRANSITION DIVISION	PRELIMINARY STAGE V
			SANITARY SEWER MODIFICATIONS GENERAL SEWER NOTES	100% Complete NOT FOR CONSTRUCTION OR RECORDING DWS NO. 66-102
NO. 1-19		AJD WAT (SR 86) TI		09-A236IS
TRACS NO. F0132 01C				OF

DATE	TIME	PROJECT NO.	SHEET NO.	TOTAL SHEETS	ISSUED FOR
9	AM	019-A2365			

WH DESCRIPTION	AGENCY ID NUMBER	STATION	OFFSET	LOCATION DESCRIPTION	EXISTING RW ELEVATION (FEET)	NEW RW ELEVATION (FEET)	ELEVATION DIFFERENCE (FEET)	ADJUST, RECONSTRUCT OR REBUILD (ADD/REMOVE)	RCH TYPE	BRICK W/FW	LIMIT TYPED	SEE NOTE 51 APPROX. RCH LENGTH (FEET)	CONCRETE COLLAR RW TO STD. DETAIL (SEE NOTE 4)	MANHOLE EXISTING CONDITIONS
Sanitary Sewer	7183-TB	482+13	12' LT	Valley Rd	2408.3	2408.8	0.5'	RCH	1			5.5'	RW TO STD	
Sanitary Sewer	4489-OI	482+4	48' RT	Valley Rd	2408.8	2408.2	1.4'	RCH	1			4.4'	RW TO STD	
Sanitary Sewer	7182-OI	476+5.3	81' RT	Piedra Ave	2408.2	2408.2	0.0'	ADJ					RW TO STD	
Sanitary Sewer	3254-OI	476+5.3	55' RT	Piedra Ave	2408.8	2408.2	0.4'	ADJ					RW TO STD	
Sanitary Sewer	2720-OI	18+14	10' RT	Lamar Ave	2408.7	2408.7	0.0'	ADJ					RW TO STD	
Sanitary Sewer	5789-OI	15+08	9' RT	Lamar Ave	2411.1	2411.1	0.0'	ADJ					RW TO STD	
Sanitary Sewer	2720-OI	17+43	5' RT	Lamar Ave	2408.0	2408.0	0.0'	ADJ					RW TO STD	

- NOTES:**
- Manhole adjustments shall be measured by each manhole and paid for under this SDCDD, Sewer Manhole Adjustment.
 - Manhole reconstruction shall be measured by floor flat reconstruction and paid for under two categories:
Type 1 shall be paid for under this SDCDD, Sewer Manhole, Reconstruct.
Type 2 shall be paid for under this SDCDD, Sewer Manhole, Reconstruct Corrosion Protection.
 - For Type 2 manhole reconstruction, prepare and cast the reconstructed portion of the Manhole with interior corrosion protection. See Special Provisions.
 - Concrete collars for manholes to be adjusted or reconstructed shall be constructed in accordance to the Pima County Regional Wastewater Reclamation Department Standard Details D21 and D22. Concrete collars shall be considered included in the adjustment or reconstruction pay items for the manholes.
 - For purposes of valuation, the depth of the area affected is based on RW TO STD OR STD TO STD that including the minimum depth of cover to 36 inches. Therefore, a depth of 3.00' is added to the elevation difference to estimate the overall length of reconstruction.

STATE PLANE COORDINATES (AZ CENTRAL) AND 83 INTERNATIONAL FEET AT CATCHMENT	DISTANCE FROM TAP TO DOWNSTREAM MANHOLE	SEWER LINE STATIONING AT HCS/PCS CONNECTION
LOT #	NORTHING	EASTING

KEYNOTE	ITEM NUMBER	ITEM DESCRIPTION	UNIT	SHEET SS-1.04		SHEET SS-1.05		SHEET SS-1.06		SHEET SS-1.07		SHEET SS-1.08		TOTALS	
				EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT
1	800018	MISCELLANEOUS WORK (REMOVAL SEWER)	LF	1232											1232
2	800018	REMOVE (SEWER MANHOLE)	EA	5											5
3	800011	MANHOLE, SANITARY SEWER, 14'-FT DIA	EA	4		1			4						9
6	800040	SEWER MANHOLE, ADJUSTMENT	EA	4								3			7
7	800045	SEWER PIPE 14" PVC	LF	368											368
7	800045	SEWER PIPE 18" PVC	LF	741.3		144			340.8						1227
8	800045	SEWER PIPE 18" DUCTILE IRON (CL 200)	LF					37.2							37
	800000	SEWER, MANHOLE RECONSTRUCT	EA	8											8
	800009	SEWER SERVICE PIPES	EA	5											5
11	800008	Abandon Exist Sewer and ductile w/ Slurry	LF					315				376			691
12	800008	Abandon Exist Sewer Manhole and ductile w/ Slurry	EA						1						1
A	*	NEW CONCRETE COLLAR IN UN-PAVED AREA	EA	1		2			3						6
B	*	NEW CONCRETE COLLAR IN PAVED AREAS	EA	6			1		2						9

WH NO	STATE PLANE COORDINATES (AZ CENTRAL) AND 83 INTERNATIONAL FEET	DISTANCE FROM TAP TO DOWNSTREAM MANHOLE	SEWER LINE STATIONING AT HCS/PCS CONNECTION
	NORTHING	EASTING	

- * Concrete Collars are included and measured bid/price to the east Per:
 - Raw Bid/price
 - Manhole Adjustment
 - Raw Sewer Connection into existing manhole.

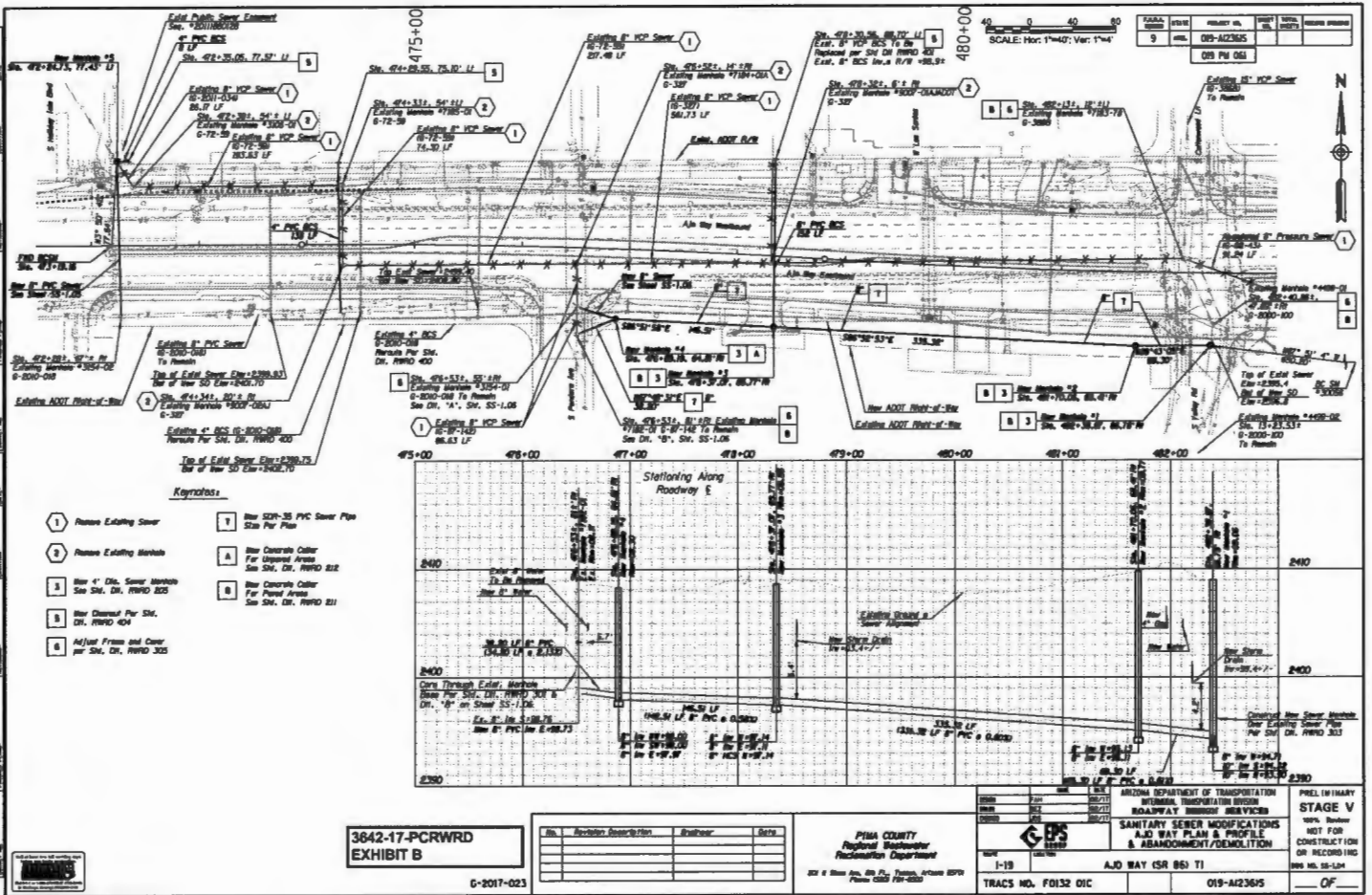
3642-17-PCRWRD EXHIBIT B
G-2017-023

Item	Quantity	Unit	Price	Total

PIMA COUNTY
Regional Wastewater Reclamation Department
825 S Stone Ave, 2nd Fl, Tucson, Arizona 85724
Phone (520) 791-9200

ARIZONA DEPARTMENT OF TRANSPORTATION INVENTORY TRANSPORTATION DIVISION ROADWAY/TRANSPORTATION SERVICES	PRELIMINARY STAGE V 100% Bid/price NOT FOR CONSTRUCTION OR RECORDING DRG NO. SS-1.03
SANITARY SEWER MODIFICATIONS MATERIALS QUANTITY SUMMARY	TRACS NO. F0132 OIC AJO WAY (SR 86) TI 019-A2365 OF





- Keynotes:**
- ① Remove Existing Sewer
 - ② Remove Existing Manhole
 - ③ New 4" Dia. Sewer Manhole See Sht. D1, RWFD 202
 - ④ New Cleanout For Sht. D1, RWFD 404
 - ⑤ Adjust Frame and Cover per Sht. D1, RWFD 305
 - ⑥ New 12" x 18" PVC Sewer Pipe Size Per Plan
 - ⑦ New Concrete Coffer For Upstream Area See Sht. D1, RWFD 212
 - ⑧ New Concrete Coffer For Paved Area See Sht. D1, RWFD 211

3642-17-PCRWRD EXHIBIT B

C-2017-023

No.	Revisions/Description	Revised	Date

PIMA COUNTY
Regional Sanitizer
Reclamation Department

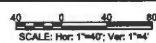
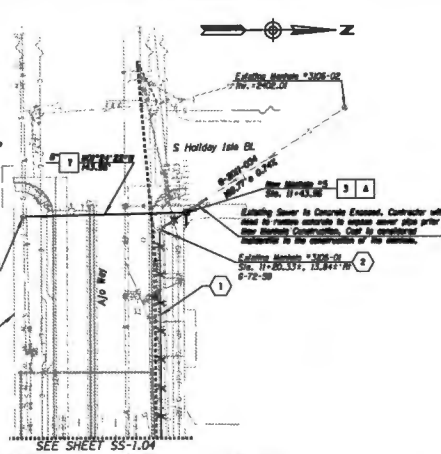
225 N. Stone Ave., 2nd Fl., Tucson, Arizona 85701
Phone: (520) 791-6200

ARIZONA DEPARTMENT OF TRANSPORTATION REGIONAL TRANSPORTATION DIVISION ROADWAY IMPROVEMENT DIVISION		PRELIMINARY STAGE V 100% Review NOT FOR CONSTRUCTION OR RECORDING SEE SHT. D1-124
SANITARY SEWER MODIFICATIONS A.D. WAY PLAN & PROFILE & ABANDONMENT/DEMOLITION		
DATE: 1-19 DRAWN:	A.D. WAY (SR 86) T1	TRACS NO. F0132 OIC 019-A23615 OF

Keynotes:

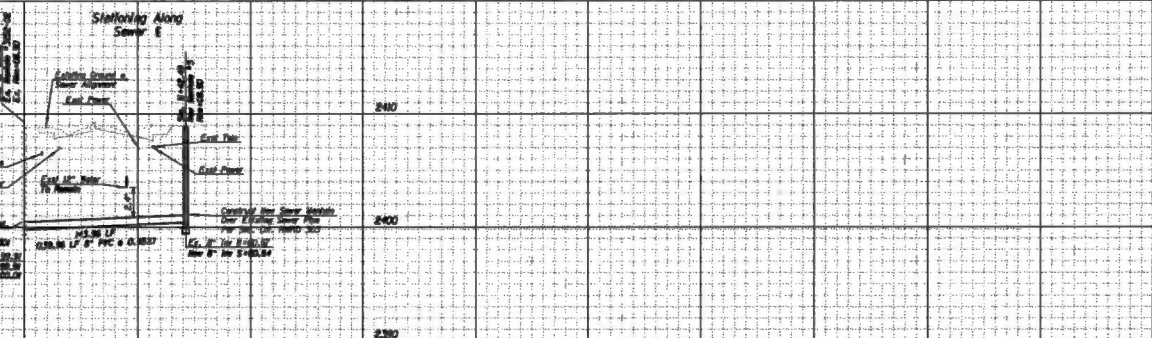
- ① Remove Existing Sewer
- ② Remove Existing Manhole
- ③ New 4" Dia. Sewer Manhole See S&T, CR, RWNO 232
- ④ New 300-36 PVC Sewer Pipe 32% Per Plan
- ⑤ New Concrete Curb For Upstream Area See S&T, CR, RWNO 232
- ⑥ New Concrete Curb For Paved Area See S&T, CR, RWNO 231
- ⑦ Existing Manhole *3024-01 Sta. 11+00.00 6-200-048

Existing AJOE West-of-Way



DATE	PROJECT NO.	ISSUE NO.	REVISION
9 APR 09	019-A2365		
09 PM 061			

SEE SHEET 33-1.04



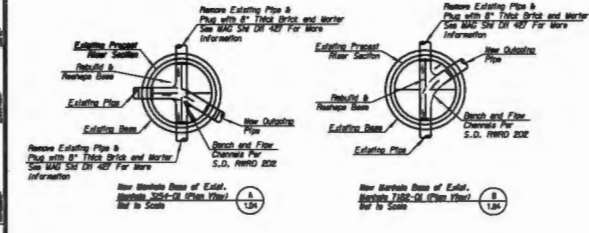
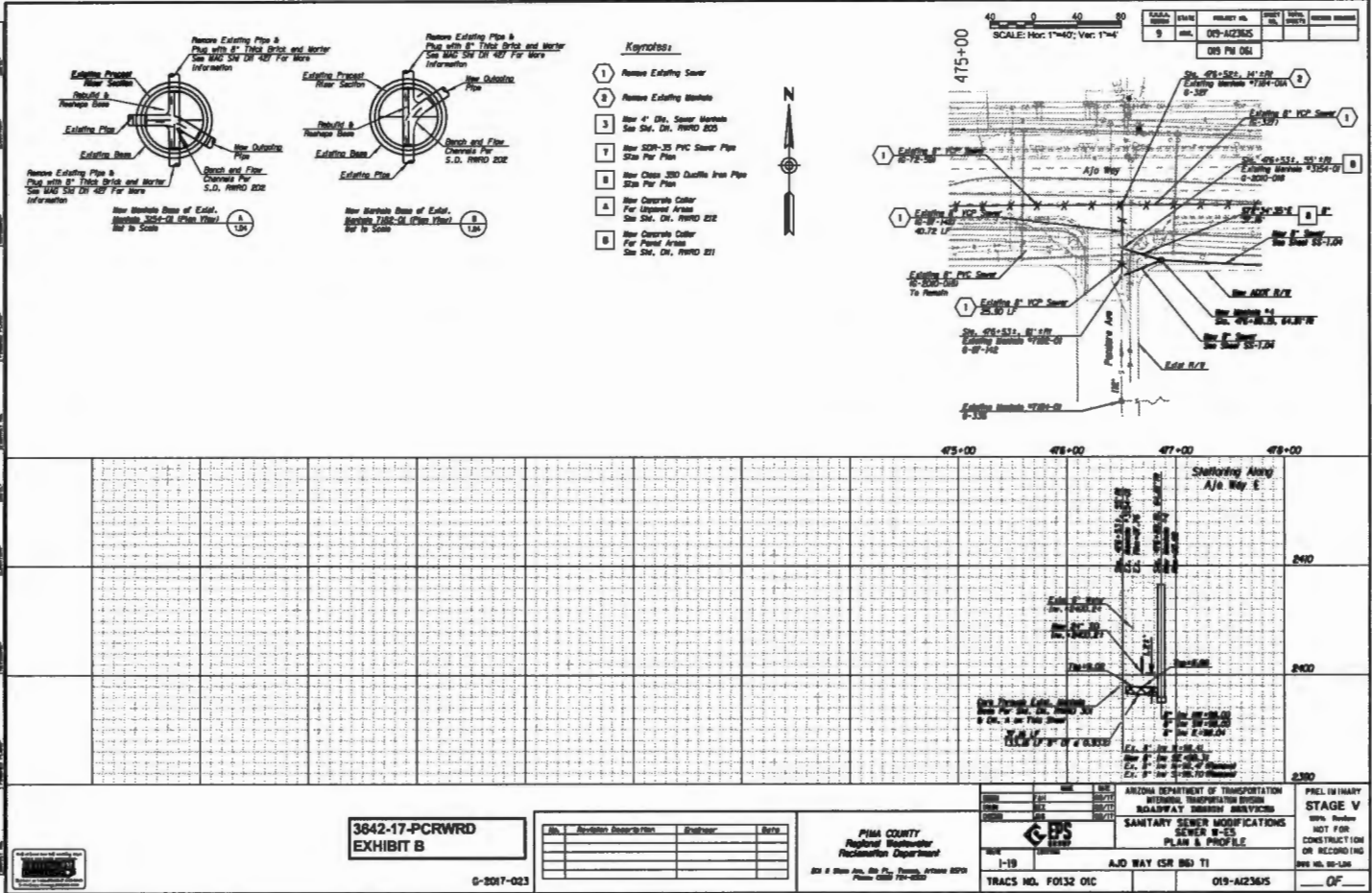
**3642-17-PCRWRD
EXHIBIT B**

G-2017-023

No.	Description	Station	Date

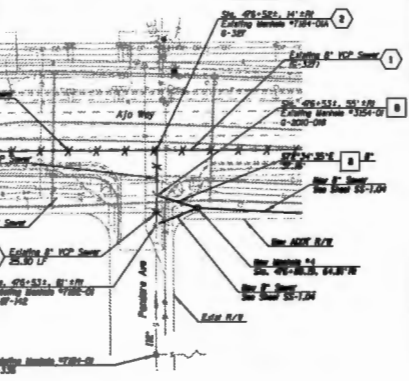
PIMA COUNTY
Regional Wastewater
Recycling Department
300 S. Stone Ave., Ste. 200, Tucson, Arizona 85701
Phone: (520) 781-6300

	ARIZONA DEPARTMENT OF TRANSPORTATION INTERNAL TRANSPORTATION DIVISION ROADWAY IMPROVEMENT SERVICES	PRELIMINARY STAGE V 100% Review NOT FOR CONSTRUCTION OR RECORDING
	SANITARY SEWER MODIFICATIONS AJO WAY PLAN & PROFILE & ABANDONMENT/DEMOLITION	
TRACS NO. F0132 01C	AJO WAY (SR 86) TI	019-A2365



- Keynotes**
- 1 Remove Existing Sewer
 - 2 Remove Existing Manhole
 - 3 New 12" Dia. Sewer Manhole See Div. Ch. RWRD 202
 - 4 New 18" Dia. Sewer Manhole See Div. Ch. RWRD 202
 - 5 New Class 350 Ductile Iron Pipe 12" Dia Per Plan
 - 6 New Concrete Catcher For Flood Areas See Div. Ch. RWRD 211
 - 7 New Concrete Catcher For Flood Areas See Div. Ch. RWRD 211

DATE	STATUS	PROJECT NO.	DATE	BY	REVISION
9	REV.	019-A23615			
019 PH 001					



3642-17-PCRWRD EXHIBIT B

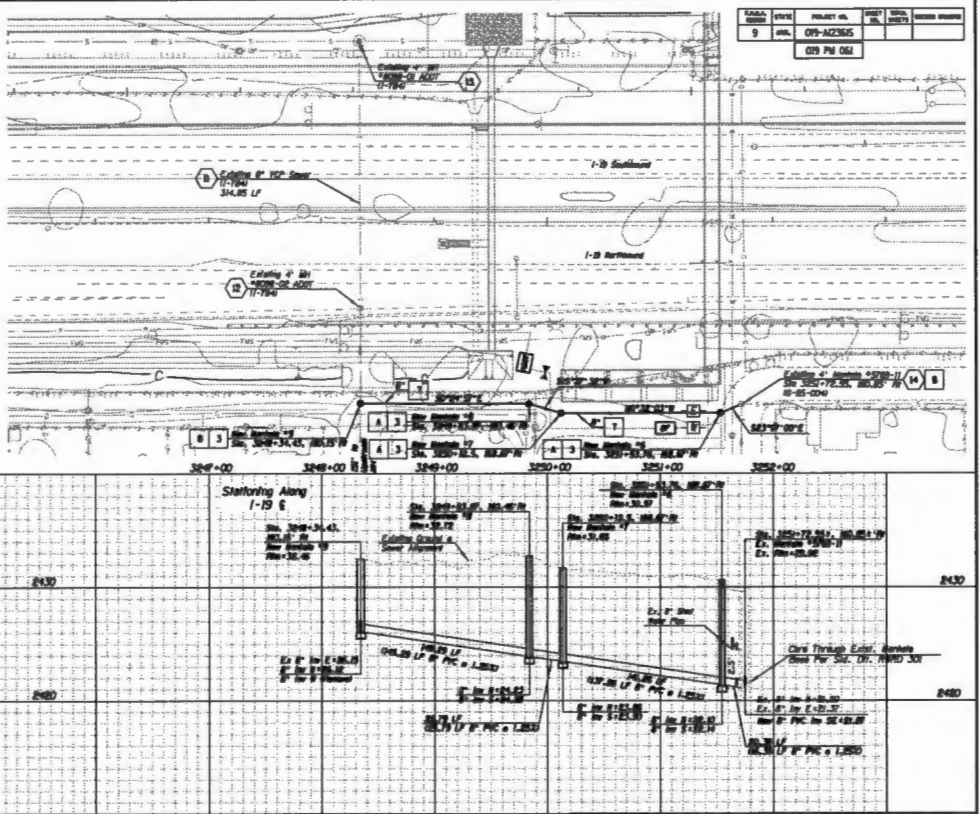
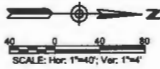
No.	Revisions Description	Revised	Date

PIMA COUNTY
Regional Water/Sanitary
Administration Department

201 N. Stone Ave., 2nd Fl., Tucson, Arizona 85701
Phone: (520) 799-2300

	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DIVISION SERVICES	PRELIMINARY STAGE V 50% Review NOT FOR CONSTRUCTION OR RECORDING SEE WL 88-124
	SANITARY SEWER MODIFICATIONS SEWER 8-25 PLAN & PROFILE	
TRACS NO. F0132 OIC	AJO WAY CSR 861 T1	019-A23615





Keynotes:

- 1 New 4' Dia. Sewer Manhole
See Sta. Ch. RWFD 305
- 1 New 30\"/>

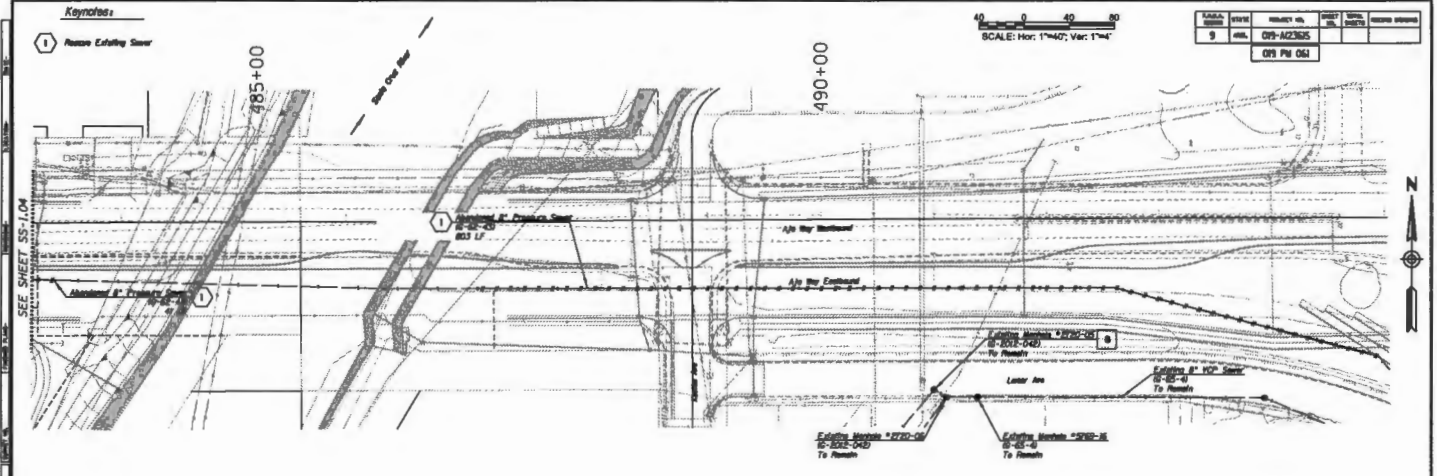
**3642-17-PCRWRD
EXHIBIT B**

Stn.	Structure Description	Structure	Notes

**PIMA COUNTY
Regional Sanitization
Recollection Department**
227 S. Stone Ave., 2nd Fl., Tucson, Arizona 85701
Phone (520) 794-2320

ARIZONA DEPARTMENT OF TRANSPORTATION INFORMATION TRANSPORTATION DIVISION SANITARY ENGINEERING SECTION 	PRELIMINARY STAGE V 100% Review NOT FOR CONSTRUCTION OR RECORDING SHEET NO. SS-147
SANITARY SEWER MODIFICATIONS AND RAY PLAN & PROFILE & ABANDONMENT/DEMOLITION	TRACS NO. F0132 01C AJO WAY (SR 86) T1 019-A2361S OF

G-2017-023



DATE	ISSUE	ISSUED BY	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9/20/17	01	...	019-A12365

Keynotes:
 [Symbol] New Concrete Catcher For Flood Areas See SM. OR. RWRD 211

3642-17-PCRWRD EXHIBIT B

No.	Revision Description	Author	Date

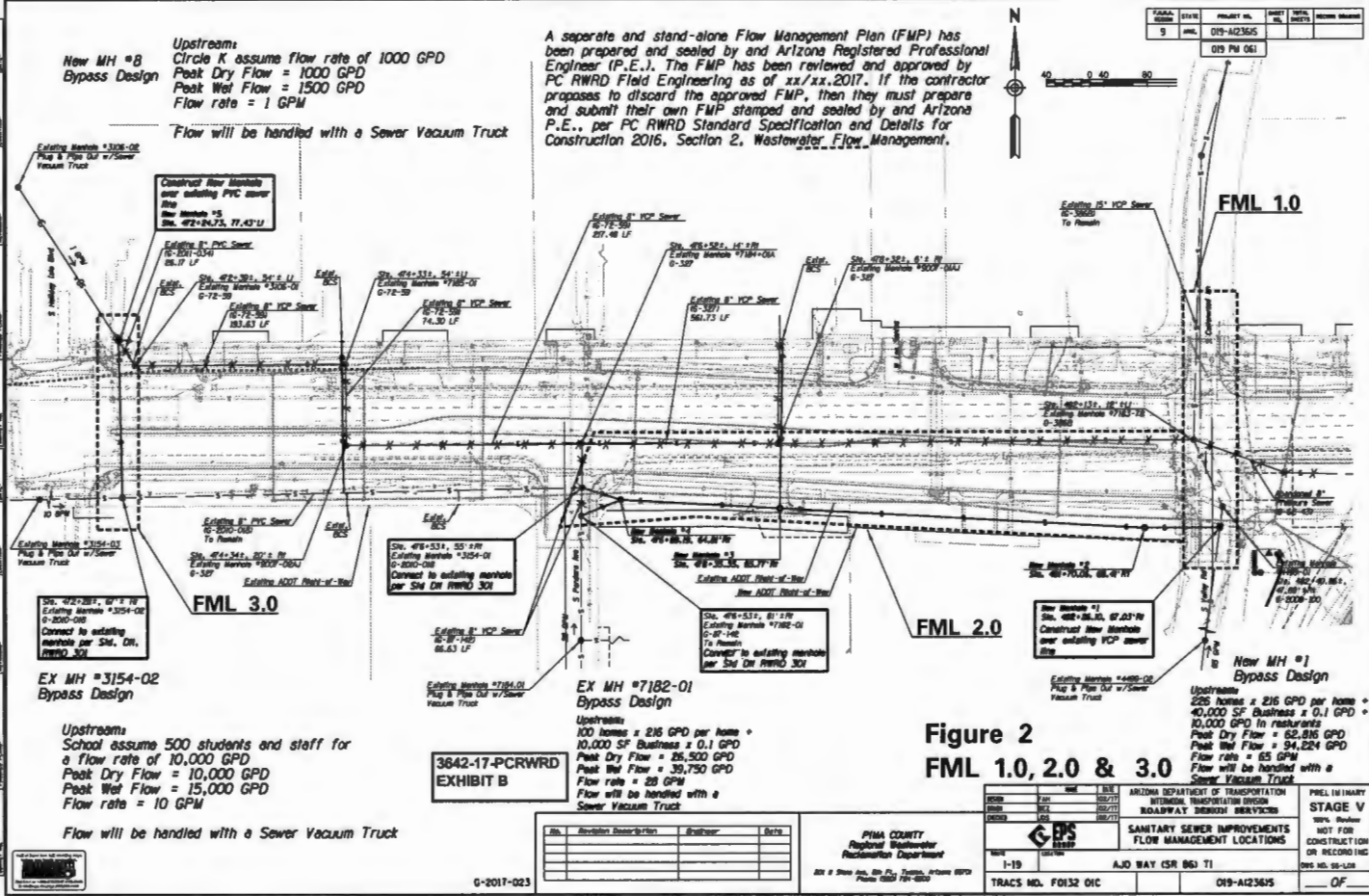
PIMA COUNTY
 Regional Wastewater
 Reclamation Department
 221 N. Stone Ave., 2nd Fl., Tucson, Arizona 85710
 Phone: (520) 791-6333

	ARIZONA DEPARTMENT OF TRANSPORTATION INTERNAL TRANSPORTATION DIVISION ROADWAY DIVISION SERVICES SANITARY SEWER MODIFICATIONS REMOVAL PLAN SHEET	PRELIMINARY STAGE V 100% Review NOT FOR CONSTRUCTION OR RECORDING DWS NO. 10-LWS 019-A12365
TRACS NO. F0132 OIC	AJO WAY (SR 86) TI	OF

G-2017-023

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SCALE	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	ISSUE NUMBER
9	01/16/16	019-A123615	019 PM 061		



A separate and stand-alone Flow Management Plan (FMP) has been prepared and sealed by and Arizona Registered Professional Engineer (P.E.). The FMP has been reviewed and approved by PC RWRD Field Engineering as of xx/xx.2017. If the contractor proposes to discard the approved FMP, then they must prepare and submit their own FMP stamped and sealed by and Arizona P.E., per PC RWRD Standard Specification and Details for Construction 2016, Section 2, Wastewater Flow Management.

Upstream:
New MH #8
Bypass Design
Circle K assume flow rate of 1000 GPD
Peak Dry Flow = 1000 GPD
Peak Wet Flow = 1500 GPD
Flow rate = 1 GPM

Flow will be handled with a Sewer Vacuum Truck

Upstream:
School assume 500 students and staff for a flow rate of 10,000 GPD
Peak Dry Flow = 10,000 GPD
Peak Wet Flow = 15,000 GPD
Flow rate = 10 GPM

EX MH #3154-02
Bypass Design

Upstream:
100 homes x 216 GPD per home +
10,000 SF Business x 0.1 GPD
Peak Dry Flow = 26,500 GPD
Peak Wet Flow = 39,750 GPD
Flow rate = 28 GPM

Flow will be handled with a Sewer Vacuum Truck

3642-17-PCRWRD
EXHIBIT B

EX MH #7182-01
Bypass Design

Upstream:
100 homes x 216 GPD per home +
10,000 SF Business x 0.1 GPD
Peak Dry Flow = 26,500 GPD
Peak Wet Flow = 39,750 GPD
Flow rate = 28 GPM

Flow will be handled with a Sewer Vacuum Truck

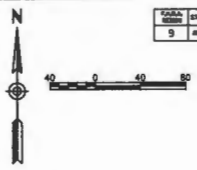
Figure 2
FML 1.0, 2.0 & 3.0

No.	Revision Description	Revised	Date

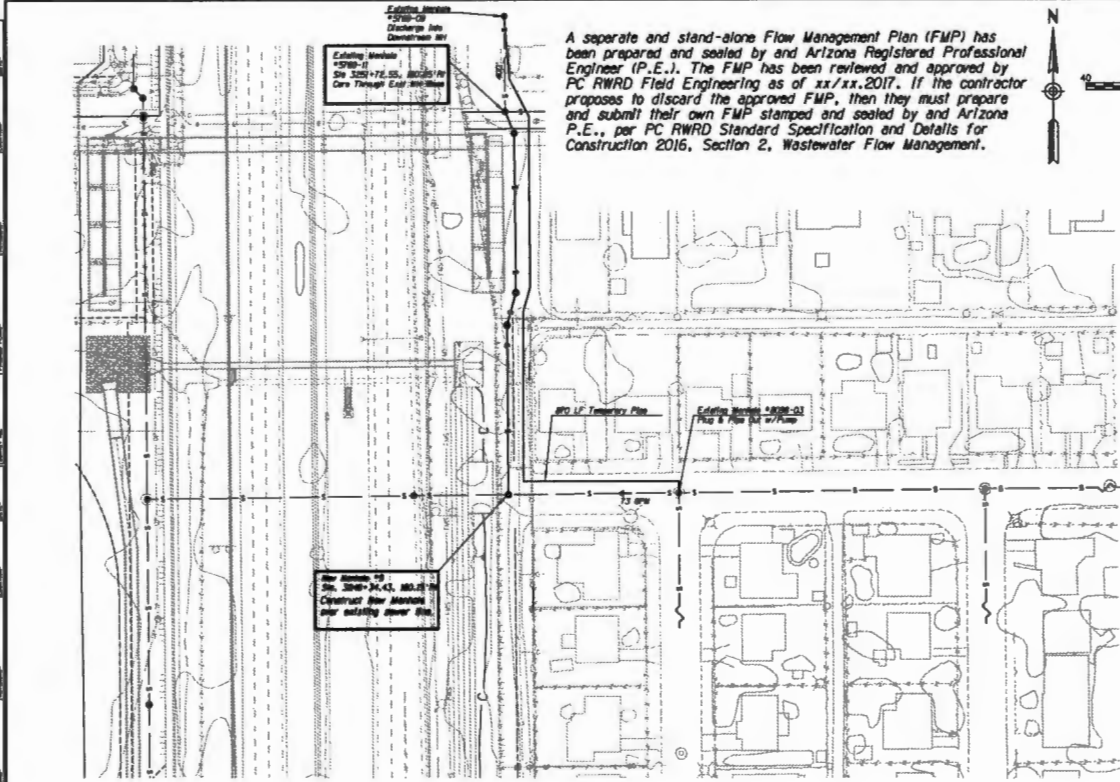
PIMA COUNTY
Regional Sanitarian
Regulation Department
201 N. Stone Ave., 2nd Fl., Tucson, Arizona 85701
Phone (520) 791-6500

DATE	BY	CHK	APP	ARIZONA DEPARTMENT OF TRANSPORTATION REGIONAL TRANSPORTATION DIVISION SANITARY SEWER IMPROVEMENTS FLOW MANAGEMENT LOCATIONS	PRELIMINARY STAGE V 10% Review NOT FOR CONSTRUCTION OR RECORDING SEE ML 98-108
01-19-16				AJO WAY CSR 061 T1	
TRACS NO. F0132 OIC					019-A123615
					OF

PROJECT NO.	019-A22365
DATE	019 PM 05L



A separate and stand-alone Flow Management Plan (FMP) has been prepared and sealed by and Arizona Registered Professional Engineer (P.E.). The FMP has been reviewed and approved by PC RWRD Field Engineering as of xx/xx.2017. If the contractor proposes to discard the approved FMP, then they must prepare and submit their own FMP stamped and sealed by and Arizona P.E., per PC RWRD Standard Specification and Details for Construction 2016, Section 2, Wastewater Flow Management.



Upstream:
 325 homes x 216 GPD per home
 Peak Dry Flow = 70,800GPD
 Peak Wet Flow = 105,300 GPD
 Flow rate = 75 GPM

FML 4.0

3642-17-PCRWRD
 EXHIBIT B

No.	Revisions/Description	Revised	Date

PIMA COUNTY
 Regional Wastewater
 Reclamation Department

DATE	1-19	PROJECT	AJO WAY (SR 96) T1
TRACS NO.	F0132 DIC	PROJECT NO.	019-A22365



0-2017-023

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PRELIMINARY
STAGE V
 100% Review
 NOT FOR
 CONSTRUCTION
 OR RECORDING
 PWS NO. 85-110
 OF

**EXHIBIT BA
AGREEMENT NO. 3642-17-PCRWRD
119 AJO WAY (SR 86) TI**

BUY AMERICA

**EXHIBIT BA
3642-17-PCRWRD**

EXHIBIT "BA"

Certificate of Compliance for Domestic Steel and Iron Materials and Products

ADOT Stored Specifications (Subsection 106.15, 2/15/11). Domestic Materials and Products:

Steel and iron materials and products used on all projects shall comply with the current "Buy America" requirements of 23 CFR 635.410.

All manufacturing processes to produce steel and iron products used on this utility relocation project shall occur in the United States. Raw materials used in manufacturing the steel and iron products may be foreign or domestic. Steel or iron not meeting these requirements may be used in products on this project provided that the invoiced cost to the contractor for such steel products incorporated into the work does not exceed either one-tenth of one percent of the total (final) contract cost or \$2,500, whichever is greater.

Any process which involves the application of a coating to iron or steel shall occur in the United States. These processes include epoxy coating, galvanizing, painting, or any other coating which protects or enhances the value of covered material.

The requirements specified herein shall only apply to steel and iron products permanently incorporated into the project. "Buy America" provisions do not apply to temporary steel items, such as sheet piling, temporary bridges, steel scaffolding and falsework, or to materials which remain in place at the contractor's convenience.

The UTILITY shall furnish ADOT with Certificates of Compliance, conforming to the requirements of ADOT Standard Specifications; Subsection 106.05(B), which state that steel or iron products incorporated in the project meet the requirements specified. Certificates of Compliance shall also certify that all manufacturing processes to produce steel or iron products, and any application of a coating to iron or steel, occurred in the United States.

Convict-produced materials may not be used unless the materials were produced prior to July 1, 1991 at a prison facility specifically producing convict-made materials for Federal-aid construction projects.

ADOT Standard Specifications Subsection 106.05 Certificates.

(B) Certificate of Compliance:

A Certificate of Compliance shall contain the following information:

- (1) A description of the material supplied.
- (2) Quantity of material represented by the certificate.
- (3) Means of material identification, such as label, lot number, or marking.
- (4) Statement that the material complies in all respects with the requirements of the cited specifications. Certificates shall state compliance with the cited specification, such as AASHTO M 194, ASTM A 588; or specific table or section of the Arizona Department of Transportation Standard Specifications or Special Provisions. Certificates may cite both, if applicable.
- (5) The name, title, and signature of a person having legal authority to bind the manufacturer or the supplier of the material. The date of the signature shall also be given. The name and address of the manufacturer or supplier of the material shall be shown on the certificate. A copy or facsimile reproduction will be acceptable. However, the original certificate shall be made available upon request. The person signing the certificate shall be in one of the following categories:
 - (a) An officer of a corporation.
 - (b) A partner in a business partnership or an owner.
 - (c) A general manager.
 - (d) Any person having been given the authority in writing by one of the three listed above. The manufacturer or supplier may submit a list of those who are authorized to sign certificates. This list shall be submitted under the name, title, and signature of one of the first three listed above. This list will be kept on file for subsequent certificates received on that project.

Each of the first four items specified above shall be completed prior to the signing as defined in item five. No certificate will be accepted that has been altered, added to, or changed in any way after the authorized signature has been affixed to the original certificate. However, notations of a clarifying nature, such as project number, contractor, or quantity shipped are acceptable, provided the basic requirements of the certificate are not affected.

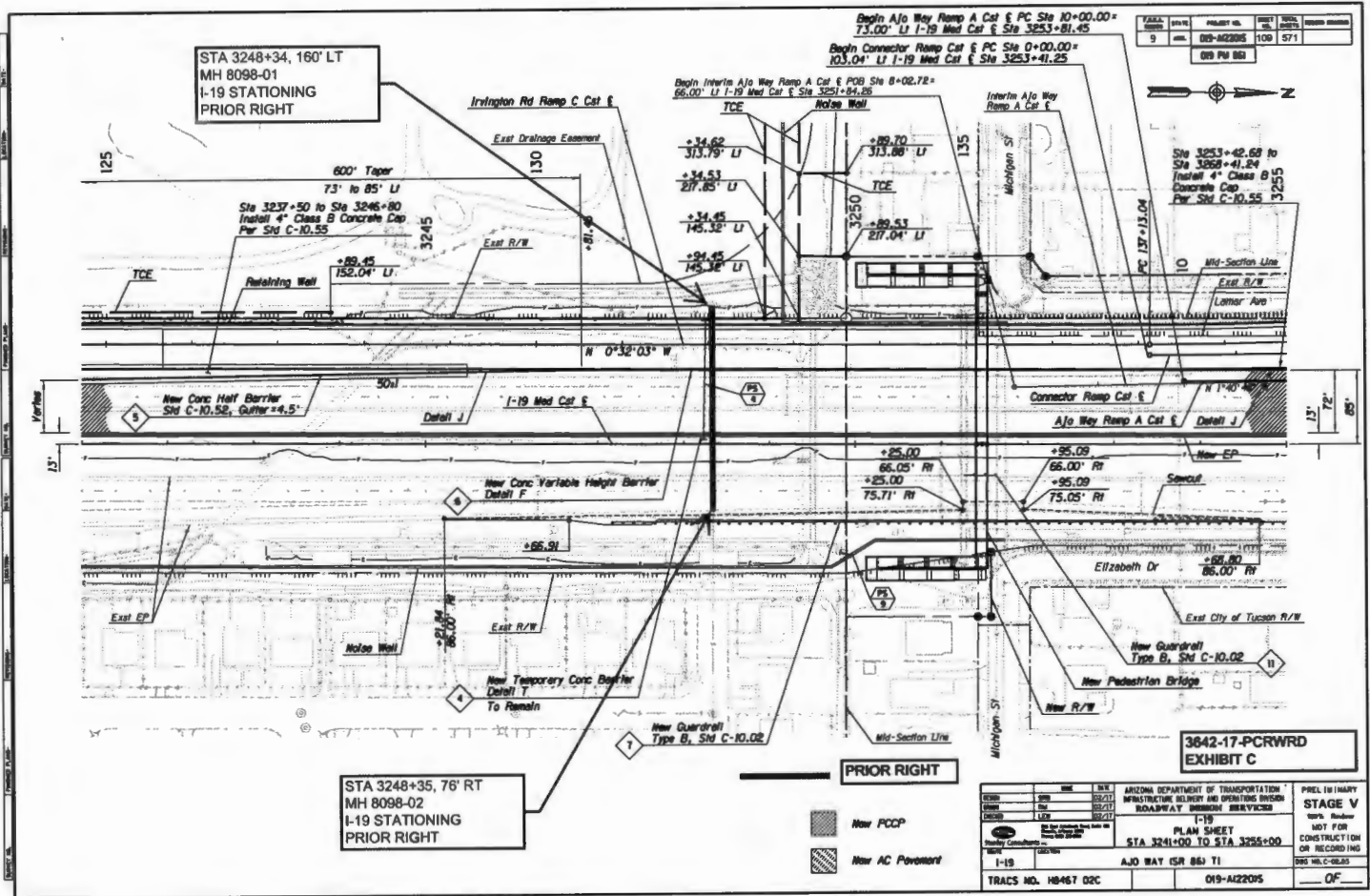
**EXHIBIT C
AGREEMENT NO. 3642-17-PCRWRD
119 AJO WAY (SR 86) TI**

ADDITIONAL PRIOR RIGHT DOCUMENTATION

**EXHIBIT C
3642-17-PCRWRD**

Location	Type and Size	Length (FT)	Description
MH 8098-01, STA 3248+34 160' LT MH 8098-02, STA 3248+35 76' RT I-19 STATIONING	8" VCP	236	Sewer Asbuilt Plans Per I-784 Dated 1959 Road Established ADOT ROW Plan Per I-19-1 Dated 1960

EXHIBIT C
3642-17-PCRWRD



STA 3248+34, 160' LT
MH 8098-01
I-19 STATIONING
PRIOR RIGHT

STA 3248+35, 76' RT
MH 8098-02
I-19 STATIONING
PRIOR RIGHT

DATE	BY	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	AKL	019-A22205	108	571
019 PM 051				



ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATING DIVISION ROADWAY DIVISION SERVICES I-19 PLAN SHEET STA 3241+00 TO STA 3255+00		PRELIMINARY STAGE V NOT FOR CONSTRUCTION OR RECORDING
TRACS NO. H8467 02C I-19	AJO WAY (SR 86) TI	019-A22205 OF

**EXHIBIT D
AGREEMENT NO. 3642-17-PCRWRD
119 AJO WAY (SR 86) TI**

ADDITIONAL SCOPE OF DESIGN SERVICES



Stanley Consultants, Inc

Attn: Mike Chase, Project Manager
1661 E. Camelback Road, Suite 400
Phoenix, AZ 85016

9/13/17

**Re: Engineering Services for Water and Sewer Plan Modifications for
019 PM 061 H8467 01D I-19, Ajo Way (SR 86) TI
ADOT Contract No. 2012-016**

Dear Mr. Chase:

EPS Group (EPS) presents the following scope of work and fee proposal to provide Engineering Services for modifying the water and sewer construction plans, specifications and estimate associated with ADOT's project 019 PM 061 H8467 01D, I-19, Ajo Way (SR 86) Traffic Interchange project.

Task 1 – Modify and Finalize Water Plans, Specifications and Estimate

EPS shall work with Stanley Consultants to prepare a Package #2 water modification plan submittal that includes construction plans, specifications and construction cost estimate to Tucson Water standards. **Fee: \$5,531**

Task 2 – Modify and Finalize Sewer Plans, Specifications and Estimate

EPS shall work with Stanley Consultants to modify the Package #2 sewer relocation plan submittal that includes construction plans, specifications and construction cost estimate to PCRWRD standards. The plan modifications shall include the additional sewer work on the east side of I-19 between Michigan Street and Macarthur Street. **Fee: \$5,686**

Task 3 – Utility Coordination and Permit Review

EPS shall provide utility coordination and relocation plan review of SWG (attachment to the bridge) Tucson Water, and PC RWRD for accuracy, completeness, and integration with the roadway design elements. EPS will follow the "Golden Rod" process per Tucson District Permits request. **Fee: \$3,800**

Total Fee: 15,017



Our company is dedicated to providing quality service and communication. If you should have any questions concerning this proposal, please do not hesitate to call me. Thank you again for the opportunity to work with you on this project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeff Stine', written over a horizontal line.

Jeff Stine, P.E.
EPS Group

Firm Name: EPS Group, Inc.

Contract No: 2012-016
TRACS No: H8467 01D
New Contract:
CM x

Tucson Water Modifications

Derivation of Cost Proposal Summary

September 13, 2017

Direct Labor

<u>Classification</u>	<u>Man-hours</u>	<u>Contract Rate</u>	<u>Totals</u>
Senior Project Engineer	10	\$ 44.26	\$ 443.00
Project Engineer	6	\$ 38.10	\$ 229.00
Engineer/Designer	0	\$ 31.82	\$ -
CADD Technician	40	\$ 27.54	\$ 1,102.00
Administrative	0	\$ 23.86	\$ -
56			
Total Direct Labor			\$ 1,774.00

Negotiated Overhead Rate 178.35%
 Subtotal (Direct Labor + Overhead) = \$ 4,938.00
 Fixed Fee (12%) = \$ 593.00

Other Direct Expenses

<u>Item</u>	<u>Unit</u>	<u>Number</u>	<u>Unit Cost</u>	<u>Total</u>
Printing & Reproductions	LS	0	\$0.00	\$ -
Total Direct Expenses				\$ -

See attachment

Outside Services and Sub-Consultants (See Attachment(s) for Cost Derivation)

<u>Firm</u>	<u>Total</u>
Total Sub-Consultant Services \$ -	

TOTAL ESTIMATED COST \$ 5,531

Submitted By EPS Group, Inc. _____
DBE Yes No X

**EXHIBIT D
3642-17-PCRWRD**

Man-Hour Estimation Worksheet

Revised 9/13/17

PROJECT: Ajo Way TI (SR86)

TRACS No.: H8467 01D

CONTRACT: 2012-016

TASK	DESCRIPTION	Senior Project Engineer	Project Engineer	Engineer/Designer	CADD Technician	Admin	Total Hours
1	Water Modifications for Package #2						
	Water Modification Plans	8	2		40		50.0
	Cost Estimate and Specifications	2	4				6.0
	TOTAL HOURS	10	6	0	40	0	56

EXHIBIT D
3642-17-PCRWRD

Firm Name: EPS Group, Inc.

Contract No: 2012-016
TRACS No: H8467 01D
New Contract:
CM x

Sewer Plan Modifications &
ADOT Encroachment Permit Review

Derivation of Cost Proposal Summary

September 13, 2017

Direct Labor

<u>Classification</u>	<u>Man-hours</u>	<u>Contract Rate</u>	<u>Totals</u>
Senior Project Engineer	12	\$ 44.26	\$ 531.00
Project Engineer	32	\$ 38.10	\$ 1,219.00
Engineer/Designer	6	\$ 31.82	\$ 191.00
CADD Technician	40	\$ 27.54	\$ 1,102.00
Administrative	0	\$ 23.86	\$ -
90			
Total Direct Labor			\$ 3,043.00

Negotiated Overhead Rate 178.35%
Subtotal (Direct Labor + Overhead) = \$ 8,470.00
Fixed Fee (12%) = \$ 1,016.00

Other Direct Expenses

<u>Item</u>	<u>Unit</u>	<u>Number</u>	<u>Unit Cost</u>	<u>Total</u>
Printing & Reproductions	LS	0	\$0.00	\$ - See attachment
Total Direct Expenses				\$ -

Outside Services and Sub-Consultants (See Attachment(s) for Cost Derivation)

<u>Firm</u>	<u>Total</u>
Total Sub-Consultant Services \$ -	

TOTAL ESTIMATED COST \$ 9,486

Submitted By EPS Group, Inc. _____
DBE Yes No X

**EXHIBIT D
3642-17-PCRWRD**

Man-Hour Estimation Worksheet

Revised 9/13/17

PROJECT: Ajo Way TI (SR86)

TRACS No.: H8467 01D

CONTRACT: 2012-016

TASK	DESCRIPTION	Senior Project Engineer	Project Engineer	Engineer/Designer	CADD Technician	Admin	Total Hours
1	Sewer Modifications for Package #2						
	Sewer Modification Plans	8		2	40		50.0
	Cost Estimate and Specifications	4		4			8.0
2	Utility Coordination and Permit Review						
	Package #2 Utility Relocation Coordination		16				16.0
	ADOT R/W Permit Review of Utility Encroachments		16				16.0
	TOTAL HOURS	12	32	6	40	0	90

**EXHIBIT D
3642-17-PCRWRD**