

*Bid Range*

SPECIAL PROVISIONS

*\$500,000 - \$700,000*

FOR

SEVENTH AVENUE BRIDGE  
OVER THE  
ARIZONA CANAL DIVERSION CHANNEL

CONTRACT NO. FCD 87-53

Property of  
Flood Control District of MC Library  
Please Return to  
2801 W. Durango  
Phoenix, AZ 85009



SUPPLEMENTARY TO MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EDITION OF 1979 AND REVISIONS AND SUPPLEMENTS THERETO.

A118.519

SPECIAL PROVISIONS  
FOR  
SEVENTH AVENUE BRIDGE  
OVER THE  
ARIZONA CANAL DIVERSION CHANNEL

CONTRACT NO. FCD 87-53



SUPPLEMENTARY TO MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EDITION OF 1979 AND REVISIONS AND SUPPLEMENTS THERETO.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
CONTRACT FCD 87-53

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ATTENTION  
ALL PROSPECTIVE BIDDERS

Some of the Bid Bonds previously received with bids for Flood Control District construction projects have not been in complete compliance with Arizona Revised Statutes (ARS).

ARS 34-201-A3 requires that every bid be accompanied by a certified check, cashier's check or surety bond for five percent (5%) of the amount of the bid.

In some cases the bonds limit the five percent (5%) to the difference between the low bid and that of the next lowest responsible bidder, to whom a contract could be awarded, in the event that the low bidder failed to enter into contract within the specified time.

Bids received with limitation on the five percent (5%) will be considered as non-responsive bids and will not be accepted or considered for award of contract.

The attached SURETY BOND form is contained in the M.A.G. specifications and must be used for bids to be acceptable to the Flood Control District.

Please take note and submit your bids accordingly.

Any Bid Bond submitted with the wording, or similar wording, as underlined in the following paragraph will be considered unacceptable.

SAMPLE OF LIMITATION IN UNACCEPTABLE BID BOND

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or contract documents with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.



THE WORK SHALL COMMENCE WITHIN SEVEN (7) CALENDAR DAYS AND BE COMPLETED WITHIN TWO HUNDRED TEN (210) CALENDAR DAYS AFTER DATE OF THE NOTICE TO PROCEED.

NOTICE: THE BID SCHEDULE, SPECIAL PROVISIONS, INSTRUCTIONS TO BIDDERS, UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, EDITION OF 1979 (MAG) AND DRAWINGS LISTED UNDER THE CONTENTS WILL BE INCORPORATED IN AND BECOME A PART OF THE RESULTANT CONTRACT.

CHERIE PENNINGTON, CLERK  
BOARD OF DIRECTORS  
FLOOD CONTROL DISTRICT OF  
MARICOPA COUNTY

INVITATION FOR BIDS  
NO. FCD 87-53

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
INVITATION FOR BIDS, FCD 87-53  
INSTRUCTIONS TO BIDDERS

1. Explanation to Bidders. Any explanations desired by the bidder, questions, or items for clarification regarding the meaning or interpretation of the invitation for bids, drawings, specifications, etc., may be addressed to the Chief Engineer and General Manager, preferably in writing, prior to the pre-bid conference. Any answers, interpretations, or clarifications affecting the cost will be addressed to all bidders in an addendum to the invitation. The receipt of an addendum by the bidder must be acknowledged in the space provided on the bid form or by letter or telegram received before the time set for the bid opening. Oral explanations or instructions given before the award of the contract will not be binding.
2. Conditions Affecting the Work. It is in the best interest of the bidders to attend the pre-bid conference. Bidders should visit the site and take such other steps as may be reasonably necessary to ascertain the nature and the location of the work, the general and local conditions which can affect the work and the cost thereof. Failure to do so will not relieve bidders from responsibility for estimating properly the difficulty or cost of successfully performing the work. (See MAG 102.4)
3. Bidder's Qualifications. Before a bid is considered for award, a bidder may be requested by the Chief Engineer and General Manager of the Flood Control District to submit a statement regarding his previous experience in performing comparable work, his business and technical organization, financial resources, and plant available to be used in performing the work.
4. Bid Guarantee. Where a bid guarantee is required by the invitation for bids, failure to furnish a bid guarantee in the proper form and amount by the time set for opening of bids, may be cause for rejection of the bid.

If the successful bidder, upon acceptance of his bid by the Flood Control District within the period specified herein for acceptance (sixty days if no period is specified) fails to execute such further contractual documents, if any, and give such bond(s) as may be required by the terms of the bid as accepted within the time specified (ten days if no period is specified) after receipt of the forms by him, his contract may be terminated for default. In such event the bid guarantee shall be retained as liquidated damages.

INVITATION FOR BIDS  
NO. FCD 87-53

5. Preparation of Bids. Bids shall be submitted on the forms furnished, or copies thereof, and must be manually signed. If erasures or other changes appear on the forms, each erasure or change must be initialed by the person signing the bid. Unless specifically authorized in the invitation for bids, telegraphic bids will not be considered.

No bid will be considered unless all items in the bid schedule are priced. In case of an error in the extension of price, the unit price shall govern. The quantities listed on the bid schedule on which unit prices are requested are estimates only.

Unless called for, alternate bids will not be considered.

Modifications of bids already submitted will be considered if received at the office designated in the invitation for bids by the time set for opening bids.

6. Submission of Bids. Bids must be sealed, addressed to the Chief Engineer and General Manager, Flood Control District of Maricopa County, 3335 West Durango, Phoenix, Arizona 85009, and marked to identify the bid to the referenced Contract FCD Number. Failure to appropriately identify the bid may result in a premature opening of, or a failure to open, such bid. The name of the bidder shall be on the outside of the envelope. (See MAG 102.9)
7. Withdrawal of Bids or Modifications. Bids may be withdrawn by written request received from the bidder prior to the time set for opening of bids.
8. Public Opening of Bids. Bids will be publicly opened at the time and place set for the opening in the invitation for bids. Their content will be made public for the information of bidders and others interested, who may be present either in person or by representative.
9. Award of Contract. Award and execution of a contract shall be in accordance with MAG Section 103.
10. Specifications. Specifications referred to herein shall include all revisions and amendments in effect on the date of issuance of the invitation for bids. These instructions, Special Instructions to Bidders, and the herein contained Construction Special Provisions supplement the Uniform Standard Specifications herein referred to by "MAG" section number or paragraph number; however, in case of conflict, these instructions and Special Provisions supersede the Uniform Standard Specifications (MAG).

INVITATION FOR BIDS  
NO. FCD 87-53

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
INVITATION FOR BIDS, FCD 87-53  
SPECIAL INSTRUCTIONS TO BIDDER

Contract Plans, Special Provisions and Contract Documents: Plans, Special Provisions, and forms for proposal, Bidding Schedule, Contract Agreement and Performance Bond may be obtained from the Flood Control District of Maricopa County, 3335 West Durango Street, Phoenix, Arizona, upon payment of \$15.00 by check payable to the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY. This payment will not be refunded.

APPROXIMATE QUANTITIES FOR PRINCIPAL ITEMS

<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
125	c.y.	3000 psi Concrete
544	c.y.	4000 psi Concrete
180,038	lbs.	Reinforcing Steel
995	l.f.	Drilled Shafts (36")
550	s.y.	Surface Replacement
1,172	l.f.	6" Water Line
242	l.f.	4" Water Line
900	l.f.	8" VCP Sanitary Sewer
192	l.f.	15" Storm Sewer Pipe
3,776	c.y.	Miscellaneous Excavation
145	c.y.	Miscellaneous Backfill

and such other pertinent items as are necessary for the completion of the project as shown on the plans or as called for in the Special Provisions or in the Maricopa Association of Governments Uniform Standard Specifications for Public Works Construction.

Location of Work: The proposed work is located near the intersection of 7th Avenue and Dunlap Avenue over the Arizona Canal Diversion Channel, Phoenix, Arizona.

CHERIE PENNINGTON, CLERK  
BOARD OF DIRECTORS  
FLOOD CONTROL DISTRICT OF  
MARICOPA COUNTY

INVITATION FOR BIDS  
CONTRACT NO. FCD 87-53

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
(Construction Contract)

BID FORM

Project: 7th Avenue Bridge over the Invitation FCD 87-53  
Arizona Canal Diversion Channel Date: September 6, 1988

Location: Near the intersection of 7th Avenue  
and Dunlap Avenue over the Arizona  
Canal Diversion Channel, Phoenix, Arizona

To: Chief Engineer and General Manager  
Flood Control District of Maricopa County  
3335 West Durango Street  
Phoenix, Arizona 85009

The following Proposal is made on behalf of \_\_\_\_\_  
\_\_\_\_\_ and no others. The Total Contract amount of  
this proposal is (in words) \_\_\_\_\_  
\_\_\_\_\_ and \_\_\_\_\_/100 dollars, (in figures)  
\_\_\_\_\_, this amount being the sum total of the extended  
amount for each pay item on the Bidding Schedule.

Evidence of authority to submit the Proposal is herewith furnished. The Proposal is in all respects fair and is made without collusion on the part of any person, firm, or corporation mentioned above, and no member or employee of the Flood Control District Board of Directors is personally or financially interested, directly or indirectly in the Proposal, or in any purchase or sale of any materials or supplies for the work in which it relates or in any portion of the profits thereof.

The Undersigned certifies that the approved Plans, Uniform Standard Specifications for Public Works Construction, 1979 Edition (MAG) and revisions and supplements thereto, together with the Special Provisions, forms of Contract and Bond authorized by the Board of Directors and constituting essential parts of this Proposal, have been carefully examined, and also that the site of the work has been personally inspected.

The Undersigned declares that the amount and nature of the work to be done is understood and that at no time will misunderstanding of the Plans, Specifications, Special Provisions, or conditions to be overcome, be pled. On the basis of the Plans, Specifications, Special Provisions, the forms of Contract, and the Bond proposed for use, the Undersigned proposes to furnish

all the necessary machinery, equipment, tools, apparatus, and other means of construction, to do all the work and to furnish all the materials in the manner specified and to finish the entire project within the time hereinafter proposed and to accept, as full compensation therefor, the sum of various products obtained by multiplying each unit price, herein bid for work or materials, by the quantity thereof actually incorporated in the completed project, as determined by the Chief Engineer and General Manager, Flood Control District of Maricopa County.

The Undersigned understands that the quantities mentioned herein are approximate and are subject to increase or decrease and hereby proposes to perform all quantities of work, as either increased or decreased, in accordance with the provisions of the Specifications, at the unit price bid in the Bidding Schedule.

BIDDING SCHEDULE

PROJECT: 7th Avenue Bridge over the  
Arizona Canal Diversion Channel

CONTRACT: FCD 87-53

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
206-1	1	L.S.	Structure Excavation (Approx 1166 cy)			
206-2	1	L.S.	Structure Backfill (Approx 145 cy)			
215	1	L.S.	Channel Excavation (Approx 2610 cy) (Expose Bottom of Bridge)			
300-1	1	L.S.	Roadway Reconstruction			
300-2	610	L.F.	Sawcut Pavement at Detour			
310-1	<del>204</del> <sup>299</sup>	Ton	Aggregate Base Course (for Detour, and Concrete Filler Slab)	& parking lot)		
321-1	<del>234</del> <sup>279</sup>	Ton	C-3/4" Asphaltic Concrete (for Detour) & parking lot)			
336	<del>550</del> <sup>594</sup>	S.Y.	Sawcut, Remove and Surface Replacement, Type "A", Det. 200			
350-1	1	L.S.	Miscellaneous Removals			
401	1	L.S.	Traffic Control			
440-1	180	L.F.	4" PVC Pipe (for Sleeve)			
440-2	180	L.F.	8" PVC Pipe (for Sleeve)			
505-1	125	C.Y.	Class A Concrete, f'c = 3,000 psi			
505-2	544	C.Y.	Class AA Concrete, f'c = 4,000 psi			

BIDDING SCHEDULE

PROJECT: 7th Avenue Bridge over the  
Arizona Canal Diversion Channel

CONTRACT: FCD 87-53

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
505-3	180,038	Lbs.	Reinforcing Steel			
505-4	995	L.F.	Drilled Shafts (36")			
520	184	L.F.	Pedestrian Fence			
610-1	1,172	L.F.	Furnish and Install 6" Water Line			
610-2	2	EA.	Furnish and Install 6" Tapping Sleeve Valve with Box and Cover, Type A, Det. 340 & Det. 391-1-A			
610-3	1	EA.	Furnish and Install 6" Valve with Box and Cover, Type D, Det. 391-1-A			
610-4	242	L.F.	Furnish and Install 4" Water Line			
610-5	1	EA.	Furnish and Install 4" Tapping Sleeve Valve with Box and Cover, Type D, Det. 391-1-A			
610-6	38	L.F.	Furnish and Install 3" Water Line			
610-7	3	EA.	Furnish and Install Fire Hydrant			
610-8	100	Lb.	Cast Iron Fittings (Not shown on the plans)			
610-9	1	EA.	Water Service Connection			
615-1	<del>900</del> 1175	L.F.	Furnish and Install 8" VCP Sanitary Sewer			

BIDDING SCHEDULE

PROJECT: 7th Avenue Bridge over the  
Arizona Canal Diversion Channel

CONTRACT: FCD 87-53

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
615-2	<del>1</del>	EA.	Furnish and Install <del>6'-6"</del> length of 8" VCP & Coupling at Existing 8" Sanitary Sewer West of Manhole 13			
618-1	62	L.F.	15" Storm Sewer Pipe (RCP, Class II)			
618-2	130	L.F.	15" Storm Sewer Pipe (CSP, 14 Gauge)			
618-3	1	L.S.	Temporary Catch Basin, Grate & Storm Drain Connection (See Sheet 10 of 17)			
625-1	2	EA.	Manhole (Temporary)			
625-2	<del>5</del> 4	EA.	4' Dia. Sanitary Sewer Manhole, Std. Det. 420 and 424			
625-3	<del>13</del> 12	EA.	Furnish and Install Sanitary Sewer Pipe Plugs, Std. Det. 427			
625-4	<del>9</del> 8	EA.	Fill and Abandon Manhole, and Plug Pipe(s)			

The Bidder hereby acknowledges receipt of and agrees his proposal is based on the following Addenda

Total \_\_\_\_\_

The Undersigned further proposes to execute the Contract Agreement and furnish satisfactory Bonds within ten (10) days from the date of award, time being of the essence. The undersigned further proposes to begin the work as specified in the Contract attached hereto, and to complete the work within the time limits as specified in the Special Provisions and maintain at all times a Contract Bond, approved by the Board of Directors, in an amount equal to one hundred percent (100%) of the total bid. This bond shall serve not only to guarantee the completion of the work on the part of the Undersigned, but also to guarantee the excellence of both workmanship and material and the payment of all obligations incurred, said Bond to be in full force and effect until the work is finally accepted and the provisions of the Plans, Specifications and Special Provisions are fulfilled.

A Proposal guaranty in the amount and character named in the Invitation for Bids is enclosed amounting to not less than five percent (5%) of the total bid, which Proposal guaranty is submitted as a guaranty of the good faith of the Bidder and that the Bidder will enter into written contract, as provided, to do the work, if successful in securing the award thereof; and it is hereby agreed that if at any time other than as provided in the Proposal requirements and conditions the Undersigned should withdraw this Proposal, or if the Proposal is accepted and there should be failure on the part of the Undersigned to execute the Contract and furnish satisfactory Bond as herein provided, the Flood Control District of Maricopa County in either of such events, shall be entitled and is hereby given the right to retain the said Proposal guaranty as liquidated damages.

Date: \_\_\_\_\_, 19\_\_.

IF BY AN INDIVIDUAL: License No. \_\_\_\_\_ Classification \_\_\_\_\_

\_\_\_\_\_  
(Name) (Address)

IF BY A FIRM OR PARTNERSHIP: License No. \_\_\_\_\_ Classification \_\_\_\_\_

\_\_\_\_\_  
(Firm Name) (Firm Address)

By: \_\_\_\_\_

\*Name and Address of Each Member:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_, 19\_\_.

IF BY A CORPORATION: License No. \_\_\_\_\_ Classification \_\_\_\_\_

\_\_\_\_\_  
(Corporate Name) (Corporation Address)

By: \_\_\_\_\_

\*\*Incorporated under the Laws of \_\_\_\_\_

Names and Addresses of Officers:

\_\_\_\_\_  
(President) (Address)

\_\_\_\_\_  
(Secretary) (Address)

\_\_\_\_\_  
(Treasurer) (Address)

\*The name and post office address of each member of the firm or partnership must be shown.

\*\*The name of the State under which the Corporation was chartered and names, title, and business address of the President, Secretary, and Treasurer must be shown.

SURETY BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, \_\_\_\_\_, as Principal, (hereinafter called the Principal), and the \_\_\_\_\_, a corporation duly organized under the laws of the State of \_\_\_\_\_, as Surety, (hereinafter called the Surety), are held and firmly bound unto the Flood Control District of Maricopa County as Obligee, in the sum of \_\_\_ percent (\_\_\_%) of the total amount of the bid of Principal, submitted by him to the Flood Control District of Maricopa County, for the work described below, for the payment of which sum, well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, and administrators, successors and assigns, jointly and severally, firmly by these presents, and in conformance with A.R.S.

WHEREAS, the said Principal is herewith submitting its proposal for \_\_\_\_\_

NOW, THEREFORE, if the Flood Control District of Maricopa County shall accept the proposal of the Principal and the Principal shall enter into a contract with the Flood Control District of Maricopa County in accordance with the terms of such proposal and give such Bonds and Certificates of Insurance as specified in the Standard Specifications with good and sufficient Surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter into such contract and give such Bond and Certificates of Insurance, if the Principal shall pay to the Flood Control District of Maricopa County the sum of money set forth above as liquidated damages for failure of the Principal to enter into the contract, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, A.D., 19\_\_.

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Title

Witness:

\_\_\_\_\_

\_\_\_\_\_  
Surety

\_\_\_\_\_  
Title

Witness:

\_\_\_\_\_



SPECIAL PROVISIONS

FOR

7TH AVENUE BRIDGE

OVER

ARIZONA CANAL DIVERSION CHANNEL

CONTRACT NO. FCD 87-53

May 25, 1988

SUPPLEMENTARY TO MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EDITION OF 1979 AND REVISIONS AND SUPPLEMENTS THERETO.

## SPECIAL PROVISIONS

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CONSTRUCTION SPECIAL PROVISIONS  
FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
SEVENTH AVENUE BRIDGE  
over  
ARIZONA CANAL DIVERSION CHANNEL

**LOCATION OF THE WORK:** This project is located in Phoenix, Arizona near the intersection of 7th Avenue and Dunlap Avenue over the Arizona Canal Diversion Channel.

**PROPOSED WORK:** The work consists of constructing one single span cast-in-place reinforced concrete box girder bridge, temporary detour, approach roadways, underground utilities construction and modifications, and other miscellaneous items of work required for the completion of the project.

**SPECIFICATIONS:** Except as otherwise required in these Construction Special Provisions, construction of this project shall be in accordance with all applicable Maricopa Association of Governments (MAG) Uniform Standard Specifications and Uniform Standard Details, latest revision, and the latest revision of the City of Phoenix Supplements to the MAG Uniform Standard Specifications and Details.

**PRECEDENCE OF CONTRACT DOCUMENT:** The City of Phoenix Supplements to MAG Specifications and Details will govern over the MAG Standard Specifications and Details. In case of a discrepancy or conflict, Project Plans will govern over both the City of Phoenix Supplements and MAG Standard Specifications and Details. These Construction Special Provisions will govern over the City of Phoenix Supplements and MAG Standard Specifications and Details and the Project Plans.

**PAYMENT:** Payment will be made for only those items listed in the Bidding Schedule and will not be made in accordance with the measurement and payment provisions of the MAG Standard Specifications where this differs from the items listed in the Bidding Schedule. All materials and work necessary for completion of this project are included in Bidding Schedule items. Any work or material not specifically referred to in these items is considered incidental to the item and the cost shall be included in the unit price bid. Where the Bidding Schedule unit is Lump Sum (L.S.) and an approximate quantity is given, the quantity represents an estimate only, and all quantities required for construction shall be supplied by the contractor in the lump sum price. No separate change orders will be considered for differing quantities required by the construction.

**WORK STANDARDS:** The Contractor shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor Regulations (29 CFR Part 5).

**NEGOTIATION CLAUSE:** Recovery of damages related to expenses incurred by the Contractor for a delay for which the Flood Control District of Maricopa County is responsible, which is unreasonable under the circumstances and which was not within the contemplation of the parties to the contract, shall be negotiated between the Contractor and the Flood Control District of Maricopa County. This provision shall not be construed to void any provision in the contract which requires notice of delays, provides for arbitration or other procedure for settlement or provides liquidated damages.

**CONTRACT TIME:** The Contractor shall start work within seven (7) calendar days and complete all work on the project within 210 calendar days after the date of Notice to Proceed.

It is anticipated that a contract for construction of the Arizona Canal Diversion Channel may be advertised in April, 1989. The bridge contractor shall coordinate his work to permit the channel contractor to have clear access to the channel right-of-way.

**WATER, LIGHT, POWER, HEAT, TELEPHONE:** All water for construction purposes, drinking water, lighting, temporary electric power, heat and telephone service shall be arranged for and provided for the requirements for the work by the Contractor at his expense.

**PROGRESS SCHEDULE:** The Contractor shall submit his proposed work progress schedule to the Project Engineer for approval before starting the work.

**MATERIAL SOURCES:** Materials used in the construction of this project shall be obtained from commercial sources. The Contractor shall pay all royalties, or any other charges or expenses, incurred in connection with the securing and hauling of the material. The Contractor will be required to furnish the Engineer with a list of his proposed commercial sources prior to use, and shall present certificates stating that the material produced from any commercial sources is in accordance with the Uniform Standard Specifications and these Special Provisions.

**GENERAL:** It shall be the Contractor's responsibility to protect and maintain the structure and construction site during the construction period and until final acceptance of the completed bridge by the Contracting Agency.

Upon completion of the construction, the Contractor shall clear the work area of all debris.

No vehicular loads will be permitted on the bridge before the lapse of twenty-one (21) days from the date of the last placement of concrete for the bridge deck, unless approval is obtained in writing from the Engineer.

**GUARANTEE:** The Contractor shall guarantee the structures for one year against faulty materials, faulty workmanship, and failure to meet the specifications requirements. Said guarantee by the Contractor shall not apply to damage caused by earthquakes or other acts of God, land subsidence or faulty operations or any abuse of the structure by others.

**SUBSECTION 101.2 - DEFINITIONS AND TERMS:** Change the definition of Budget Project to read as follows: A project financed by funds set aside in the annual budget or otherwise approved by the Board of Directors of the Flood Control District of Maricopa County.

Change the definition of Engineer to read as follows: The Chief Engineer and General Manager of the Flood Control District of Maricopa County acting directly or through his duly authorized representative.

Change the definition of Owner to read as follows: The Flood Control District of Maricopa County, acting through its legally constituted officials, officers or employees.

**SECTION 102 - ADDENDA & SUBMISSION OF BIDDING SCHEDULE:** It shall be the responsibility of prospective bidders to determine, prior to submission of a bid, if any addenda have been issued. This may be accomplished by calling 602-262-1501. Any addendum issued, if not already bound into the Special Provisions, must be included as a part of the Special Provisions, and any quantities on the Bidding Schedule requiring change shall be adjusted by pen and ink to the new figure.

Bids that do not include appropriate addenda and show appropriate changes to the Bidding Schedule shall be invalid.

**SECTION 102.5 - PREPARATION OF PROPOSAL:** The Contractor shall be appropriately licensed as a Contractor in the State of Arizona for performing the type of work in this project.

**SECTION 103.6 - CONTRACTOR'S INSURANCE:** Concurrently with the execution of the contract, the Contractor shall provide insurance coverage in the amounts and types as specified on the Certificate of Insurance forms included herein, adding as additional insured the Flood Control District of Maricopa County.

**SECTION 104.1.2 - TRAFFIC REGULATIONS:**

- A. Seventh Avenue shall be considered a major street.
- B. All traffic and/or traffic control devices on this project shall be provided, maintained and/or controlled as specified in the City of Phoenix Traffic Barricade Manual, latest revision and in accordance with the traffic control plan shown on the plans.
- C. Permission to restrict City streets, sidewalks, and alleys (street closure permits) shall be requested as specified in Section III of the Traffic Barricade Manual.

**SECTION 104.2 - BORING LOGS AND SOILS REPORT:** The soil reports are available at the Maricopa County Flood Control District and are for the Contractor's information only. No guarantee is made of the accuracy of the boring logs in the soils report. The Contractor shall make his own determination as to soil and subsurface conditions and shall complete his work in whatever material and under whatever conditions he may encounter or create, without extra cost (except as modified in MAG). Existing moisture conditions shall be no basis for claim for additional monies or time extensions. The Contractor shall manipulate the existing soil as required to achieve stable soil conditions and the required densities.

**SECTION 105.2 - PLANS AND SHOP DRAWINGS:** The Contractor shall furnish the Engineer with shop drawings, layout diagrams, manufacturer's catalog data, and detailed information, in sufficient detail to show complete compliance with all specified requirements, covering but not limited to the following items:

1. Detailed sequence of construction
2. concrete mix designs
3. Reinforcing steel
4. Metal pedestrian fence
5. False work plans and design calculations
6. Fabricated pipe and design data, including rubber gaskets
7. Castings
8. Utility protection plans
9. Relocation of water lines

The number of copies of shop drawings required for review and/or approval shall be as follows:

Initial submittal: Three (3) copies. One (1) copy will be returned to the Contractor.

Final Submittal: Six (6) copies. Two (2) copies will be returned to the Contractor.

One copy of the submitted drawings will be returned to the Contractor marked "Furnish as Submitted" or "Furnish as Noted". If the submittal is marked "Revise and Resubmit" or "Rejected", a new submittal shall be made in the same manner as the original submittal.

When submitted for the Engineer's review, shop drawings, line layouts, etc., shall bear the Contractor's certification that he has reviewed, checked, and approved the shop drawings, etc., and that they are in conformance with the requirements of the Contract Documents. The Engineer will not review any submittals which do not bear the Contractor's certification.

After the review has been completed, the above drawings, lists, samples, design calculations, and other data, shall become a part of the Contract Documents and the fabrications furnished shall conform to the submittal.

Review of material and layout drawings consists of review for general conformity to plans and specifications and in no way relieves the Contractor or the supplier from responsibility for the correctness of the drawings.

Deviations or changes from plans or specifications must be called out as such and will require review by the Engineer for approval or rejection.

Construction of this project shall not begin until the shop drawings and line layouts have been reviewed. Corrections required on the shop drawings will not constitute a valid reason for delay in the project schedule.

**SECTION 105.6 - COOPERATION WITH UTILITIES:** An attempt has been made to determine the location of all underground utilities and drainage pipes, culverts and structures; however, it shall be the Contractor's responsibility to cooperate with the pertinent utility companies so that any obstructing utility installation may be adjusted. Should the Contractor's operations result in damage to any utility, the location of which has been brought to his attention, he shall assume full responsibility for such damage.

The following phone numbers should put the Contractor in contact with the proper personnel:

Flood Control District.....	262-1501
Mountain Bell Telephone Company.....	842-7250
Salt River Project (Overhead Power)..	273-2202
Salt River Valley Water User's Association (Slavco Jovanovic).....	236-5072
Arizona Public Service (Lois Winkler).....	371-6837
Location Staking (A.P.S., Mtn. Bell, S.R.P.).....	263-1100
City of Phoenix Streets and Traffic.....	262-6565
City of Phoenix Water and Wastewater.....	261-8229
Southwest Gas Company (Ron Morenci).....	484-5254
Dimension Cable Services.....Ext. 243.....	866-0072

If the contractor wishes to have utilities temporarily braced or relocated to accommodate his own operations, he shall make his own arrangements with the utility or private owner involved, at his own expense. (This does not apply to utilities shown on the plans as being relocated). No measurement or direct payment will be made for this work.

APS will relocate the existing power line to a location along the east edge of the detour road at no cost to the contractor. The contractor shall coordinate with APS.

Southwest Gas (SWG) will temporarily relocate their 4" gas main as shown on the plans. The contractor will provide and install pipe hanger inserts and hardware compatible with Southwest Gas's plan. The contractor shall coordinate with Southwest Gas. The cost of these items shall be included in the price bid for related items of work.

**SECTION 105.8 - CONSTRUCTION STAKES, LINES AND GRADES:** The project control lines and benchmark elevation are shown on the drawings and will be established by the Engineer. The Contractor shall establish offset stakes and temporary benchmarks for referencing the designated construction lines and grades. The Contractor shall provide all rough grade, fine grade, and structural reference lines and shall be responsible for their conformance with the plans and specifications.

Survey work shall be performed by a qualified and experienced surveyor under the supervision of a licensed land surveyor, or licensed civil engineer.

The Contractor shall furnish field books to be used for recording survey data and field notes. These books shall be available for inspection by the Engineer at any time and shall become the property of the Engineer upon completion of the work.

The Engineer reserves the right to make inspections and random checks of any portion of the staking and layout work. If, in the Engineer's opinion, the work is not being performed in a manner that will assure proper control and accuracy of the work, he will order any or all of the staking and layout work redone by the Contractor at no additional cost to the Contracting Agency.

No separate payment will be made for construction surveying and the cost thereof shall be included in the price bid for related items or work.

**SECTION 105.10 - INSPECTION OF WORK:** Work will be subject to City of Phoenix inspection and acceptance prior to final acceptance by the Engineer.

**SECTION 105.12 - MAINTENANCE DURING CONSTRUCTION:** The Contractor shall maintain the work during construction and until the project is accepted. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces to the end so that the roadway, detour and structure are kept in satisfactory conditions at all times. The Contractor shall also maintain existing drainage patterns so as not to affect neighboring properties.

In the case of placing of a course upon a course or subgrade previously constructed, the Contractor shall maintain the previous course or subgrade during all construction operations. All cost of maintenance work during construction and before the project is accepted shall be included in the unit bid price on the various pay items.

**SECTION 105.13 - FAILURE TO MAINTAIN ROADWAY OR STRUCTURE:** If the Contractor, at any time, fails to perform maintenance during construction, the Engineer will immediately notify the Contractor of such noncompliance. If the Contractor fails to remedy unsatisfactory maintenance within 24 hours after receipt of such notice, the Engineer may immediately proceed to maintain the project. The entire cost of this maintenance will be deducted from monies due or to become due the Contractor on his contract.

**SECTION 106.5 - CONTRACTOR'S MARSHALING YARDS:** Contractor shall obtain approval of the Engineer when using vacant ACDC right-of-way to park and service equipment and store material for use.

- A. The Contractor shall notify adjacent property owners/residents of this proposed use.
- B. Any use of vacant property adjacent to or near the project for parking or servicing equipment and/or storing material will require the Contractor to obtain written approval from the property owner. This approval shall contain any requirements which are a condition of this approval.
- C. A copy of the property owner's approval shall be submitted along with the Contractor's request to the Engineer for approval for the use of the marshaling yard in connection with the project. An appropriate distance from adjacent property will be set by the Engineer on a case by case basis based on the size and type of equipment to be used on the project.

- D. The yard shall be fenced and adequately dust-proofed in a manner such as to preclude tracking of mud onto paved City streets.
- E. Work in yard shall be scheduled so as to comply with the City Noise Ordinance.
- F. Equipment, materials, etc., shall be located so as to minimize impact on adjacent properties. A sound barrier may be required if deemed necessary by the Engineer.
- G. The Contractor shall clean up property promptly upon completion of use.
- H. Contractor's request for approval shall specify in detail how he or she proposes to comply with D through G above.

**SECTION 107.2 - PERMITS:** The Contractor shall be responsible for obtaining all permits and licenses, pay all charges, fees taxes and give all notices necessary and incidental to the due and lawful prosecution of the work. Permits for earth moving may be obtained from the Bureau of Air Pollution Control, Maricopa County Department of Health Services, 1845 East Roosevelt, telephone number 258-6381.

A no charge permit is required from the City of Phoenix.

A permit is required from Salt River Valley Water Users Association for work in their right of way. The flood control district will obtain this permit for the Contractor.

**SECTION 107.10 - CONTRACTOR'S RESPONSIBILITY FOR WORK:** The Contractor shall properly guard, protect, and take every precaution necessary against injury or damage to all finished or partially finished work, by the action of the elements or from any other cause until the entire project is completed and accepted by the Engineer. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portions of the work at no cost to the Contracting Agency. Partial payment for completed portions of the work shall not release the Contractor from such responsibility.

In case of suspension of the work for any cause whatever, the Contractor shall be responsible for the project and shall take such precautions as may be necessary to prevent damage to the project and shall erect any necessary temporary structures, signs, or other facilities at no cost to the Contracting Agency.

**SECTION 108.4 - SEQUENCE OF CONSTRUCTION:** Construction of this project will be phased as illustrated on the plans. The bridge structure and the concrete filler slab shall be constructed in two sections in a manner that will permit traffic to be maintained at all times in accordance with Section 104.1.2 - TRAFFIC REGULATIONS.

The sanitary sewer line between Manhole 8 and 13 must be completed, and the sewer siphon at Dunlap Avenue must be in operation before the sewerline in 7th Avenue can be abandoned and the caissons can be drilled. Also the 6" water line has to be rerouted to 3rd Drive and Mission Lane before the waterlines in 7th Avenue can be abandoned and the caissons can be drilled.

**SECTION 108.5 - LIMITATION OF OPERATIONS:** Should the Contractor elect to perform any work after regular working hours, on weekends, or legal holidays, any charges incurred by the District for inspection of the work, surveys, or tests of materials will be deducted from monies due or to become due to the Contractor.

**SECTION 108.9 - FAILURE TO COMPLETE ON TIME:** The actual cost per calendar day incurred by the District for Consultant Administrative and Inspection Services on this project will be added to the daily charges as indicated by TABLE 108, LIQUIDATED DAMAGES, as shown in the MAG Uniform Standard Specifications (not in the Phoenix Supplement), and will be deducted from monies due or to become due to the Contractor for each and every calendar day that work shall remain uncompleted after the time specified for the completion of the work in the proposal, or as adjusted by the Engineer. Nothing contained in this provision shall prohibit the District from deducting from monies due or to become due to the Contractor any other costs incurred by the District directly attributable to the delay in completing this contract.

**SECTION 201 - CLEARING AND GRUBBING:** The work consists of removal and disposal of all trees, stumps, asphaltic pavement, and structures within the limits of the roadways, and easements as shown on the plans. Materials shall be disposed of off-site. Also see Section 350 in these Special Provisions.

Payment of this work will be incidental to and included in the price bid for ITEM 350-1 MISCELLANEOUS REMOVALS.

**SECTION 205 - ROADWAY EXCAVATION:** Roadway excavation shall conform to Section 205 of the Uniform Standard Specifications.

No separate payment will be made for this item. Payment for all work under this section, including watering and compacting, shall be included in ITEM 300 ROADWAY RECONSTRUCTION.

**SECTION 206 - STRUCTURE EXCAVATION AND BACKFILL:** Structure excavation and backfill shall conform to Section 206 of the Uniform Standard Specifications.

The Contractor shall provide, if necessary, sheet piling or other means of support for excavation to protect detour road, underground utilities and private property during construction.

Structure backfill behind the abutments and wing walls shall be compacted in accordance with Table 601-2, Type III of the Uniform Standard Specifications.

All backfill behind the bridge abutments and wing walls shall consist of TYPE A Select Material conforming to the requirements of MAG 702. Backfill shall be placed in horizontal lifts consistent with the maximum material size and type of compaction equipment in use and compacted to a minimum of 95% of the maximum density at the optimum moisture content plus 1% or minus 3% as determined in accordance with ASTM D-2922, D-3017, D-698 and D-1556.

Structure excavation shall be paid for at the lump sum contract price bid for ITEM 206-1 - STRUCTURE EXCAVATION. Structure backfill shall be paid for at the lump sum contract price for ITEM 206-2 - STRUCTURE BACKFILL.

**SECTION 210 - BORROW EXCAVATION:** Borrow shall consist of material excavated for use in the construction of the detour roadway embankment fills. Borrow material shall be excavated to the lines and grades and within the ACDC right of way limits just to the west and/or east of 7th Avenue as submitted in a plan from the Contractor and approved by the Engineer.

No separate payment will be made for this item. Payment for all work under this section, including watering and compacting, shall be included in ITEM 300 ROADWAY RECONSTRUCTION.

**SECTION 211 - FILL CONSTRUCTION:** The work under this section consists of constructing embankments for the detour and roadway tapers. The material required for the construction of the fill shall be suitable material obtained from borrow excavation free of all debris and vegetation.

Prior to the placement of fill material, all loose soil, vegetation, any roadside debris, concrete pavement, and existing structures within the proposed fill areas shall be completely removed. Depressions and ditches shall be cleaned of all loose or wet soils and widened to accommodate compaction equipment. Sloping surfaces shall be benched to provide a level surface for fill placement.

All exposed subgrade surfaces shall be scarified, brought to the proper moisture content and compacted for a minimum depth of eight (8) inches.

The fill shall be compacted in horizontal lifts to subbase level. The depth of the uncompacted lifts shall not exceed eight (8) inches.

Compaction shall be to a minimum of 95% of the maximum density as determined in accordance with ASTM D-2922, D-3017, D-698 and D-1556 within a moisture content range of plus 1% or minus 3% of optimum.

No separate payment will be made for fill construction and the cost of these items shall be included in the contract price bid for related items.

**SECTION 215 - EARTHWORK FOR OPEN CHANNELS:** Earthwork for open channels shall consist of excavation and grading of the Arizona Canal Diversion Channel under the new bridge to the lines and grades as shown on the plans in accordance with Section 215 of the Uniform Standard Specifications.

Material excavated under this item shall be disposed of within the Arizona Canal Diversion Channel right-of-way and shall be spread evenly to a maximum depth of not over three (3) feet, in the manner that will not block or divert the natural drainage.

The Contractor may increase the depth of channel excavation for his convenience, at his option, at no additional cost to the Owner. However, the final channel depth, width and side slopes shall be as shown on the plans.

Payment for all work under this section will be made at the lump sum bid for ITEM 215 - CHANNEL EXCAVATION, which price shall include excavation, grading, and disposal of excess material excavated from the Arizona Canal Diversion Channel as indicated on the plans.

SECTION 225 - WATERING: The work shall be in accordance with Section 225 of the Uniform Standard Specifications. No separate payment will be made for watering.

ITEM 300 - ROADWAY RECONSTRUCTION:

The work under this item consists of subgrade preparation, sawcutting, and miscellaneous work to construct the detours and permanent tapers in accordance with details shown on the plans and the applicable requirements of Section 210, 211, and 301 of the Uniform Standard Specifications.

Roadway reconstruction will be measured as a single complete unit of work. Payments for ABC and A.C. will be made under Sections 310 and 321. Payment for this item will be made at the contract lump sum price for ITEM 300-1, ROADWAY RECONSTRUCTION; and ITEM 300-2, SAWCUT PAVEMENT AT DETOUR.

SECTION 301 - SUBGRADE PREPARATION: Subgrade preparation shall consist of shaping the roadway subgrades to the grades and cross-sections for the new roadway tapers, new detour road and bridge approach slabs as shown on the plans and in accordance with Section 301 of the Uniform Standard Specifications.

No separate payment will be made for this work. Payment for all work under this section, including watering and compacting, shall be included in ITEM 300 ROADWAY RECONSTRUCTION.

SECTION 310 - UNTREATED BASE: Aggregate Base shall conform to the requirements of Section 702 of the Uniform Standard Specifications. Aggregate Base shall be crushed in accordance with Section 702.2.

Payment for all work under this section, including watering and compacting, shall be included in ITEM 310-1, AGGREGATE BASE COURSE (FOR DETOUR, ~~AND CONCRETE FILLER SLAB~~), *+ parking lot.*

SECTION 321 - ASPHALT CONCRETE PAVEMENT: Asphalt concrete pavement shall consist of furnishing and placing a plant-mixed asphalt concrete road surfacing material to the compacted thickness shown on the plans and in accordance with Section 321 of the Uniform Standard Specifications.

The mineral aggregate shall meet the grading requirements within the range of the specified tolerances for Mix-Designation C-3/4 in accordance with Section 710 of the Uniform Standard Specifications and the City of Phoenix Supplement to the Uniform Standard Specifications.

The Contractor shall furnish certified weight tickets covering all plant-mixed asphalt concrete placed on the project.

New detour pavement shall be constructed to the lines and grades as shown on the plans. Where the grades require overlay construction, the existing asphaltic concreted pavement shall be tack coated. D-1/2 mix shall be used to "feather-match" the surface for a smooth transition.

Payment for this item will be made at the contract *+ parking lot* limit price per ton for ITEM 321-1 - C-3/4" ASPHALTIC CONCRETE (FOR DETOUR). Payment for any D-1/2 mix used shall also be made at the unit price for ITEM 321-1.

**SECTION 336 - SAWCUT REMOVE AND SURFACE REPLACEMENT:** Payment for this item only applies to the waterline construction.

**SECTION 350 - REMOVAL OF EXISTING IMPROVEMENTS:** The work under this section shall consist of removing and disposing of any obstacle to construction whether it is shown on the plans or not, unless it is specifically called out on the plans to be removed or relocated by other agencies, and shall be in accordance with Section 350 of the Uniform Standard Specifications.

The removal of the existing asphalt concrete pavement necessary to construct the new bridge, approaches and concrete filler slab and the removal of the asphalt concrete surface on the detour at the end of the construction shall be included in this item.

The work under this section shall also include the sawcutting, removal and replacement of curb and gutter and sidewalk at the locations shown on the plans. Replacement shall be in accordance with the applicable sections of the Uniform Standard Specifications and Standard Details.

The removal of existing portland cement concrete pavement necessary to construct the new bridge, approaches and concrete filler slab shall be included in this item.

The disposal of all waste materials removed under this item shall be the responsibility of the Contractor. The disposal site shall be approved by the Engineer.

If a Maricopa County landfill is selected for disposition of road construction waste and/or debris, a Maricopa County Landfill Use Permit will be required. Application for permit can be made at the Maricopa County Landfill Office, located at 3325 West Durango Street, Phoenix, Arizona 85009 (Telephone 269-2661). Charges will be levied on a volume basis for each load delivered to the landfill in accordance with the current fee schedule.

After the traffic is returned to 7th Avenue, the Contractor shall remove the surfacing on the detours that is not designated to remain. The disposal of the asphaltic concrete shall be the responsibility of the Contractor. The Contractor shall restore the parking lot and catch basin east of 7th Avenue to its preconstruction condition.

**SECTION 401 - TRAFFIC CONTROL:** Traffic control shall conform to the Traffic Control Plans included in the project plans and applicable paragraphs of Section 401 of the Uniform Standard Specifications, the City of Phoenix Barricade Manual and as specified herein.

The number and types of barricades, signs, delineators, barriers and all other traffic control devices shown on the Traffic Control Plan are considered to be a minimum. However, the traffic control plans shall not relieve the Contractor of the responsibility of protecting the work, the workmen and the traveling public.

The Contractor shall provide and maintain safe and adequate access, including pavement surfacing of the detour for two-way traffic, at all times.

Contractor shall not reduce lanes on 7th Avenues or the detour without approval of the Engineer.

All necessary signs and barricades shall remain three working days beyond acceptance of the project by the Owner.

Upon completion of the construction of the bridge and approach roadway the Contractor shall restore the paint striping to the original configuration.

Payment for providing and maintaining traffic control will be at the lump sum bid price in the proposal. Such price shall include all traffic control devices and traffic control measures, such as warning and control signs, barricades, lighting devices, sand barrel crash cushion, temporary concrete barriers, paint striping of the detour, new bridge and completed roadway, delineators, flagmen and other appurtenant items related to traffic control and safety. Construction and maintenance of the detour will be paid for under ITEM 300 - ROADWAY RECONSTRUCTION.

ITEM 440 - PVC PIPE (For Sleeves):

The work under this item consists of furnishing all materials and installing PVC pipe for sleeves at the locations shown on the plans in accordance with the applicable requirements of Section 440 of the Uniform Standard Specifications and the details shown on the plans.

Pipe shall be PVC conforming to the requirements of ASTM D 1785 Schedule 40. Caps and location markers shall be acceptable to the Engineer.

The pipes shall be installed in accordance with Subsection 440-2 (D).

Measurement and payment will be in accordance with Subsection 440.8.

SECTION 505 - CONCRETE BRIDGE STRUCTURES: The work under this section shall consist of furnishing all labor, materials and equipment for the construction of the cast-in-place concrete bridge structure, including drilled shaft foundations, the approach slabs, bridge sidewalks, and the concrete filler slab between the existing and the new bridges in accordance with the plans and Section 505 of the Uniform Standard Specification, except as specified in these Construction Special Provisions.

Portland Cement concrete shall conform to the requirements of Sections 505 and 725 of the Uniform Standard Specifications for the class specified.

The following strengths of concrete shall be furnished:

505-1	Sidewalks, Barrier and Filler Slab	Class A	f'c = 3,000 psi
505-2	Approach Slabs, Superstructure and Substructure	Class AA	f'c = 4,000 psi

The Contractor shall determine the mix proportions and shall furnish concrete which conforms to the requirements of these specifications. All concrete shall be sufficiently workable, at the slump proposed by the Contractor within the specified range, to allow proper placement of the concrete without harmful segregation, bleeding, or incomplete consolidation. It shall be the responsibility of the Contractor to proportion, mix, place, finish, and cure the concrete properly in accordance with the requirements of these specifications.

Bridge Deck:

The placing of concrete will not be permitted until the Engineer is satisfied that the rate of producing and placing concrete shall be sufficient to complete the proposed pour and finishing operations within the scheduled time, that experienced concrete finishers are available to finish the deck and that all necessary finishing tools and equipment are on hand at the site of the work and are in satisfactory condition for use.

Concrete shall be placed continuously for the full area to be poured. After the concrete has been placed it shall be consolidated and then struck off by means of self-propelled screed equipment.

Screed equipment shall be designed to operate as close as practicable to bridge curbs.

Screed equipment shall travel on steel rails. Rails shall be substantially supported by adjustable steel supports of adequate size securely fastened in place and spaced at sufficiently close intervals to prevent any appreciable deflection in the rails. Steel supports shall be of such types and installed in such manner that when the rail and adjustable support have been removed, there will be no void in the concrete.

The steel rails for placing and finishing equipment shall be set to the correct elevation shown on the project plans or as established by the Engineer. The rails shall extend beyond both ends of the scheduled length for placement a sufficient distance that will permit the screed and finishing equipment to reach all areas of the concrete placed.

Screed beams or rollers shall be made of metal, or the bottom of the beam shall be metal clad. Roller screeds shall be so constructed and of such length that there will be no sag or deflection in the screeds.

Screed assemblies equipped with vibrators shall be so designed that the vibrating units do not contact any reinforcing steel. Vibration shall be transmitted to the concrete in such a manner that when the motion of the machine is stopped, all vibration will cease.

A slight excess of concrete shall be maintained in front of the screed at all times during the screeding operation. The screed shall make as many passes over the slab as may be necessary to obtain a uniform surface. The screeding assembly shall produce a surface that does not require additional floating.

The Contractor shall furnish a minimum of two tranverse work bridges from which straightedging, and curing operations may be accomplished. The work bridges shall be reasonably rigid and free of excessive deflections. The self-propelled mechanical bridge used for texturing the bridge deck may be substituted for one of the required work bridges.

Prior to placing concrete, the screed shall be traversed the length of the proposed pour and the clearance from the screed to the reinforcing steel and deck thickness shall be checked. The method of determining the clearance shall be approved by the Engineer prior to making such checks. The clearance shall be as indicated on the project plans with a permissible variation of plus or minus 1/4 inch. There shall be no appreciable deflection of the screed rails due to the weight of the screed assembly. All corrections necessary as a result of this operation shall be performed prior to beginning concrete placement.

#### Construction Joints:

The longitudinal construction joint in the deck slab shall be cleaned in a manner acceptable to the Engineer and then shall be coated with an epoxy material prior to placing the adjacent concrete. The epoxy material and the method of application shall be as approved by the Engineer.

#### Finishing Bridge Deck and Concrete Filler Slab:

Bridge sidewalks shall be finished to a light broomed texture.

Where the surface will be exposed directly to traffic, it shall have an astroturf texture in accordance with 324.3.7 of the City of Phoenix 1987 Supplement to MAG.

The timing of the texturing operation in the plastic concrete is critical.

The finishing operation shall be completed before the water sheen disappears. Water shall not be applied to the concrete surface at any time during floating or finishing except in the form of a fog spray.

Fogging equipment shall be capable of applying water to the concrete in form of a fine fog mist in sufficient quantity to curb the effects of rapid evaporation of mixing water from the concrete resulting from wind, high temperature, or low humidity, or a combination of these factors.

The finished surface of the concrete shall be tested by means of a ten-foot straightedge placed on the deck surface. The surface plane shall not vary more than 1/8 inch, as measured from the bottom of the straightedge, on deck surfaces exposed directly to traffic.

Areas showing deviations greater than those specified shall be corrected in a manner approved by the Engineer. All corrected areas shall be textured to match the finish of the surrounding concrete surface.

All areas corrected shall not show deviations in excess of that specified when tested with a ten-foot straightedge.

The concrete surface shall be cured with a white pigmented curing compound conforming to AASHTO M 148 and shall be applied at the rate of one gallon per 100 square feet and in addition the surface shall be kept continuously moist for a period of 7 days after placement.

**Dimensional Tolerances:**

Construction dimensional tolerances shall be in accordance with Section 601-4, concrete Structures, Tests on Finished Structures, of the Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Edition of 1987 (revised to date).

**Reinforcing Steel:**

Reinforcing steel shall be furnished in the sizes, shapes, and lengths shown on the plans and in conformance with the requirements of these Construction Special Provisions. Certificates of Compliance conforming to the requirements of MAG Subsection 106.2 shall be submitted.

When reinforcing steel is delivered to the site of the work, the Contractor shall furnish the Engineer with three copies of all shipping documents. Each shipping document shall show the sizes, lengths and weights of the reinforcing steel separately for each structure.

Steel bars used as reinforcement in concrete shall be deformed and shall conform to the requirements of ASTM A 615.

Where shown on the plans, the bars shall be Grade 60.

Where Grade 60 is not specified on the plans, Grade 40 may be used. Grade 60 may be used exclusively or in combination with Grade 40 provided that the conditions under which the grades are used in combination are acceptable to the Engineer and further provided that there is no additional cost to the Owner.

Shop drawings and lists showing the bending of reinforcement bars shall be submitted by the contractor to the Engineer for approval, but such approval shall not relieve the Contractor of responsibility for the correctness of such drawings and lists.

Any discrepancy or error found by the Contractor in checking a bending diagram shown on the project plans or in preparing shop drawings or lists shall be reported immediately to the Engineer, and the discrepancy or error shall be corrected in advance of fabrication and delivery of materials.

When bending is required, it shall be done without the use of heat, and bars having cracks or splits at the bends will be rejected.

Reinforcement shall be accurately fabricated and placed as shown on the plans and shall be firmly held in place by wire ties at all intersections and splices with 16 gauge or heavier tie wire and by using precast mortar blocks or ferrous metal chairs, spacers, metal hangers, supporting wires or other approved supports. Where reinforcement spacing is less than 12 inches in each direction alternate intersections may be tied. Tack welding of reinforcement will not be permitted unless approved in writing by the Engineer.

Distances from the forms shall be maintained so that the reinforcement does not vary from the position indicated on the plans by more than 1/4 inch. Reinforcement in any member shall be placed, inspected and approved before any concrete is placed.

All reinforcement shall be furnished in the full lengths indicated on the project plans. Splicing of bars, except as shown on the plans, will not be permitted without the Engineer's approval. Splices shall be staggered as far as possible. The type and method of splices or connections shall be approved by the Engineer.

In lapped splices, the bars shall be placed in contact with one another and wired together in such a manner as to maintain a clearance of not less than the minimum clear distance to other bars and the minimum distance to the surface of the concrete, as specified in the AASHTO Standard Specifications for Highway Bridges. Lap lengths shall be as shown on the plans.

Structural steel items imbedded in the concrete are incidental to Class "A" or Class "AA" concrete.

#### Drilled Shafts:

The work shall include furnishing all materials and constructing reinforced concrete shafts formed within a drilled excavation. Each drilled shaft foundation shall consist of a shaft section constructed in conformance with the tolerance shown on the plans. It is critical that the drilled shafts conform to these tolerances so that they won't conflict with the future ACDC channel wall. If deficiencies are found, the Contractor shall correct them as directed by the Engineer. These corrections may include, but are not limited to the use of casing or drilling slurry.

A period of 24 hours (minimum) shall have elapsed between completing a drilled shaft and beginning excavation of an immediately adjacent shaft.

Concrete shall conform to the requirements specified herein for Class AA ( $f'c = 4,000$  psi). Where concrete is placed in drilled shaft excavations containing bentonite slurry or water, the cement content of the concrete shall be between 658 and 752 pounds per cubic yard and the size of the coarse aggregate shall not exceed one inch.

Reinforcing steel shall conform to the requirements specified herein.

#### Excavation:

The contractor shall perform all excavation required for the shafts, through whatever substances encountered, to the dimensions and elevations shown on the plans or required by the site conditions. Blasting methods may be used only with permission of the Engineer and when used shall be in accordance with Subsection 107.8 and so conducted as to avoid disturbance of the formations below or outside the limits of the proposed shaft concrete.

After the completion of the drilled shaft excavation and prior to the placement of the reinforcing steel cage and concrete, all sloughage and other loose material shall be machine cleaned from the shaft. A flight auger or other equipment, approved by the Engineer, shall be used for cleaning dry excavations where slurry or ground water is not present. Where slurry or ground water is present, the excavation shall be cleaned with a bucket auger or similar type of equipment, as approved by the Engineer.

Open excavations that are deemed by the Engineer to be potentially hazardous, shall be covered at the end of each shift in a manner approved by the Engineer.

If satisfactory material is not encountered at plan elevation, the bottom of any drilled hole may be lowered, with written approval of the Engineer. Alteration of plan depth will be made to satisfactorily comply with design requirements. Reinforcing steel and concrete shall not be placed in the shaft until this final elevation has been established. Raising of the foundation elevation shall be only when approved by the Engineer.

When the drilling operation reaches a point where caving conditions are encountered, no further drilling will be allowed until a construction method is employed that will prevent caving and which is acceptable to the Engineer. If steel casing is proposed, the shell shall be clean and shall extend to the top of the drilled shaft excavation. The inside diameter of the casing shall not be less than the specified size of the shaft or exceed the dimensional tolerances for the shaft.

If the use of drilling slurry is to be employed, either with or without the use of casing, the contractor shall use a method of construction which will allow completion of the drilled shaft in a continuous manner without any mixing of concrete and drilling slurry.

Material excavated from shafts and not incorporated elsewhere on the project shall be disposed of as directed by the Engineer.

#### Inspection:

Drilled shaft excavations will be inspected by the Engineer. The contractor shall provide suitable equipment and facilities so that the Engineer may inspect completed excavations and check the shafts for alignment and dimensions.

Reinforcing steel and concrete shall not be placed in the drilled shaft excavation until the Engineer has made his inspection and given his approval.

#### Reinforcing Steel:

The reinforcing steel cage for the drilled shaft, consisting of longitudinal bars and spiral hooping or lateral ties shall be completely assembled and placed into the shaft as a unit. The reinforcing steel unit shall not be placed until immediately before concreting operations are to be started and shall be placed in accordance with the details shown on the project plans.

The reinforcing cage shall be adequately supported and anchored to prevent movement from the required location during and for four hours after completion of concrete placement. Spacers shall be at sufficient intervals along the shaft to insure concentric spacing for the entire length of shaft. The type of spacer used shall be as approved by the Engineer.

If the shaft is lengthened and the plans indicate full depth reinforcement, the bars in the lower portion of the shaft shall be extended accordingly, as directed by the Engineer, to the bottom of the hole. These bars may be lap spliced or spliced by butt welding or other connecting procedures approved by the Engineer to the proper length. The spiral reinforcement, if shown full depth on the project plans, shall be required full depth on the extensions.

Concrete:

A. General:

Concrete shall be placed as soon as possible after the completion of the drilled shaft excavation and placement of the reinforcing steel cage. Concrete shall be placed in accordance with the requirements specified herein.

Prior to concrete placement, the contractor shall make all necessary arrangements to assure the uninterrupted delivery of concrete so that all drilled shaft foundations will be constructed without cold joints.

B. Placement in Dry Excavations:

For placement in dry excavations, concrete shall be placed through a suitable tube or tremie to prevent segregation of materials. The concrete shall be consolidated by vibration.

Drilled shafts will be measured by the linear foot from the completed bottom of the shaft, as directed or established by the Engineer, to the elevation of the top of the shaft as indicated on the project plans.

The accepted quantities of drilled shaft foundations, measured as provided above, will be paid for complete in place, including excavation, drilling slurry, metal casing, steel reinforcing, portland cement concrete, and any needed forming, curing and finishing.

Payment for all work under this section will be made at the unit price bid per cubic yard for ITEMS 505-1 and 505-2, Class A and Class AA Concrete, respectively, unit price bid per pound for ITEM 505-3 - REINFORCING STEEL and unit price bid per linear foot for ITEM 505-4 - DRILLED SHAFTS.

No separate payment will be made for reinforcing steel Grade 40 and Grade 60.

**ITEM 520 - PEDESTRIAN FENCE:** The work under this item consists of the construction of a pedestrian fence on the bridge decks and abutments as shown on the plans and in accordance with Section 520 of the Uniform Standard Specifications.

Steel tubing shall conform to ASTM A500 for 3" tubing, and ASTM A513 for 1-1/2" and 3/4" tubing. All steel posts and pickets shall have steel caps welded to the top ends. These caps shall conform to ANSI B 16.3.

The railing shall be painted with No. 4 paint after fabrication in accordance with Section 530 and Section 790 of the Uniform Standard Specifications.

Payment for this item will be made at the contract unit price bid per lineal foot for ITEM 520 - PEDESTRIAN FENCE.

**SECTION 601 - TRENCH EXCAVATION, BACKFILLING AND COMPACTION:**

**SUBSECTION 601.2.2 - TRENCH WIDTH:** Is amended to add the following paragraph:

"If the Contractor elects to slope the trench walls in lieu of shoring, sheeting or other wall support measures, he shall be responsible for any and all problems encountered and costs incurred as a result of the increased trench width. Furthermore, no increases in contract time will be allowed as a result of sloping trench walls."

**SUBSECTION 601.2.3 - TRENCH GRADE:** Subsection 601.2.3 Trench Grade, the second paragraph is modified to read:

"For all pipe, the Contractor shall overexcavate the bottom of the trench by a minimum of 4 inches or 1/12 the O.D.

**SUBSECTION 601.2.8 - GRADING AND STOCKPILING:** Add the following paragraph:

"Excavated material shall not be considered as unsuitable due to an excessive moisture content or an inadequate moisture content for proper compaction. The Contractor shall take whatever measures are required, at his own expense, to add or remove moisture from material to be used as backfill in order that proper compaction can be obtained within the limits set in Subsection 601.4.

The Contractor may elect, at no cost to the Flood Control District to haul off and dispose of excessively wet or dry material and replace it with material conforming to the specifications for backfill.

In either event, the proper compaction shall be obtained.

There will be no additional payment or time extension allowed for this work."

**SUBSECTION 601.4.2 - BEDDING:** The first paragraph is modified to read:

"For all pipe, the bedding material from the bottom of the trench to 1 foot over the top of the pipe shall be ABC or Select Material, Type "B", per Section 702 compacted to a minimum density of 95 percent when tested by AASHTO T-99 (Method "A") with rock correction and T-191."

All bedding shall be included in the unit price bid for the pipes.

**SUBSECTION 601.4.3 - BACKFILL:** Delete the fourth paragraph in its entirety, and substitute the following:

"When mechanical compaction is to be used, the Contractor shall provide a test section demonstrating his proposed method and equipment to be used. Upon agreement with the Engineer as to the acceptability of the Contractor's proposed method and equipment, they shall not be changed without the prior approval of the Engineer. Mechanical compacted lifts in excess of one foot will not be allowed without the express written consent of the Engineer."

**SUBSECTION 601.4.3 - BACKFILL:** Amend to add the following paragraphs:

"Backfill material shall be within the range of +2% to -4% of the optimum moisture content, prior to placing the material in the trench. The moisture content shall be uniform throughout the backfill material. Material not meeting these requirements may be required to be removed from the trench and moisture added or removed to correct the deficiencies prior to replacement, all at the Contractor's expense.

It shall be the Contractor's responsibility to blend excavated material, removing or adding moisture as may be necessary to meet the requirements of the specifications, all at the Contractor's expense.

Excavated material when used for backfill shall meet the requirements of the preceding paragraph.

The moisture content requirements contained herein are waived when granular material is used and jetting methods of compaction are utilized.

**SECTION 610 - WATER LINE CONSTRUCTION:** The work under this section consists of the construction of the new water lines as shown on the plans and in accordance with Section 610 of the Uniform Standard Specifications.

Measurement will be in accordance with Section 610.18 of the Uniform Standard Specifications.

Payment will be made at the unit price bid for:

- ITEM 610-1 - Furnish and Install 6" Water Line
- ITEM 610-2 - Furnish and Install 6" Tapping Sleeve, Valve with Box and Cover
- ITEM 610-3 - Furnish and Install 6" Valve with Box and Cover
- ITEM 610-4 - Furnish and Install 4" Water Line
- ITEM 610-5 - Furnish and Install 4" Tapping Sleeve, Valve with Box and Cover
- ITEM 610-6 - Furnish and Install 3" Water Line
- ITEM 610-7 - Furnish and Install Fire Hydrant
- ITEM 610-8 - Cast Iron Fitting (Not shown on Plans)
- ITEM 610-9 - Water Service Connection

No measurement on direct payment will be made for the following where called for on the plans:

Three water line adjustments

Capping existing 3" water line and connecting to new 3" water line

~~Encasing with concrete 4" water line at two locations~~ *not shown on plans + not anticipated. Per Burt Johnson of ANTB. 10-5-88 gmw*

Constructing concrete thrust blocks

The cost for the above shall be included in the contract price for the various water line bid items.

**SECTION 615 - SEWER LINE CONSTRUCTION:** Sanitary sewer line construction shall conform to Section 615 of the MAG Standard Specifications, the City of Phoenix Supplement, and the project plans. The Contractor shall maintain continuous flows through existing sewer lines until they are connected to the new sewer line under this project. The sanitary sewer service connections called for on the plans shall be constructed by the contractor and the cost shall be incidental to the contract.

**SUBSECTION 615.3 - PIPE BULKHEADS:** The Contractor shall, at the close of each day's work and at other such times when pipe is not being laid, CLOSE the end of the pipe with a temporary stopper. The cost for temporary stoppers shall be incidental to the project.

**SUBSECTION 615.10 - LEAKAGE TEST:** Low pressure air testing, as specified in Subsection 615.10 will be required. All costs for testing shall be incidental to the project.

**CUT AND PLUG SEWER AND WATER SERVICES:** Cutting and plugging existing sewer services, cutting and plugging existing water services, removal of water meter boxes and filling and compacting meter box holes shall be included with the unit price bid for water and sewer lines. Water meter boxes shall be salvaged and stockpiled for pickup by City of Phoenix forces. Contractor shall make every attempt to locate water service corporation stop and shall turn off valve, to the satisfaction of the Engineer.

SECTION 618 - STORM DRAIN CONSTRUCTION WITH CONCRETE PIPE: The work under this section consists of the construction of storm drain pipe, as shown on the plans and in accordance with Section 618 of the Uniform Standard Specifications.

Corrugated steel pipe for temporary storm drain shall conform to the requirements of AASHTO M 245. Reinforced concrete pipe may be furnished as an alternate to corrugated steel pipe at the option of the Contractor. Temporary storm drain, regardless of the type of pipe installed will be paid for under ITEM 618-2. The temporary catch basin and pipe connection on the east side of 7th Avenue, shown on Sheet 10 of 17, will be paid under ITEM 618-3. The surface area of the temporary catch basin shall equal the existing basin, and the minimum connection pipe shall be 12".

Payment will be made at the unit price bid for:

- ITEM 618-1 - 15" STORM SEWER PIPE, (RCP, Class II)
- ITEM 618-2 - 15" STORM SEWER PIPE, (CSP, 14 Gauge)
- ITEM 618-3 - TEMP. CATCH BASIN GRATE AND CONNECTION.

SECTION 625 - MANHOLE CONSTRUCTION AND DROP SEWER CONNECTIONS: Sanitary sewer manholes shall conform to the requirements of Section 625 of the Uniform Standard Specifications and MAG Details 420 and 424 except as modified by the COP Supplements.

SECTION 625-1 - MANHOLE (Temporary): The work under this item shall conform to the applicable requirements of Section 625 of the Uniform Standard Specifications and the details shown on the plans.

The manhole top and manhole shall be fabricated in a manner approved by the Engineer. The top shall be equipped with a vandal proof locking device.

SANITARY SEWER PLUGS AND MANHOLE ABANDONMENT: The brick work and mortar for Bid Item 625-3, Sanitary Sewer Pipe Plugs and Bid Item 625-4, Fill and Abandon Manhole and plug pipe, shall be constructed in accordance with Section 625 of the MAG Standard Specifications and Detail 427.

Prior to installation of any plugs, filling in, removing, or abandoning any manholes, the abandoned sewer lines shall be dewatered and aerated by the Contractor in a manner that will not cause damage to public property nor constitute any nuisance or menace to the public. The Contractor shall plug all pipes entering and exiting the manhole, remove and salvage the frame and covers, fill and compact all manholes with aggregate base up to the frame and compact to 95% density.

The aggregate base used shall comply with Table 702 in the MAG Standard Specifications.

Frame and covers removed shall become the property of the City of Phoenix, and the Contractor shall load, haul, and stockpile the frame and covers, as directed, at the City of Phoenix Maintenance Yard, 2301 W. Durango Avenue.

Measurement and payment will be on a unit basis for each manhole filled and will include, salvaging of frames and covers, delivery to the City of Phoenix Maintenance Yard, and plugging pipes.

DII.198.7/sc

CONTRACT FCD 87-53

THIS AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,  
by and between \_\_\_\_\_

of the City of \_\_\_\_\_, County of \_\_\_\_\_, State of \_\_\_\_\_,  
party of the first part, hereinafter designated the CONTRACTOR, and the FLOOD  
CONTROL DISTRICT OF MARICOPA COUNTY, acting by and through its BOARD OF  
DIRECTORS, a political subdivision of the State of Arizona, a body politic with  
corporate power, party of the second part, hereinafter designated OWNER.

WITNESSETH: That the said CONTRACTOR, for and in consideration of the sum  
to be paid him by the said OWNER, in the manner and at the time hereinafter  
provided, and of the other covenants and agreements hereincontained, and under  
the penalties expressed in the bonds provided, hereby agrees, for himself, his  
heirs, executors, administrators, successors, and assigns to as follows:

ARTICLE I-SCOPE OF WORK: The CONTRACTOR shall furnish any and all labor,  
materials, equipment, transportation, utilities, services and facilities  
required to perform all work for the construction of Project No. FCD 87-53;  
Seventh Avenue Bridge over Arizona Canal Diversion Channel  
and to complete and totally construct the same and install the material therein  
for the OWNER, in a good and workmanlike and substantial manner and to the  
satisfaction of the OWNER through its Engineers and under the direction and  
supervision of the Engineer, or his properly authorized agents and strictly  
pursuant to and in conformity with the Plans and Specifications prepared by the  
Engineers for the OWNER, and with such modifications of the same and other  
documents that may be made by the OWNER through the Engineer or his properly  
authorized agents, as provided herein.

ARTICLE II-CONTRACT DOCUMENTS: The Invitation for Bids, Plans, Standard  
Specifications and Details, Special Provisions, Addenda, if any, and Proposal,  
as accepted by the BOARD OF DIRECTORS, Performance Bond, Payment Bond,  
Certificates of Insurance, and Change Orders, if any, are by this reference  
made a part of this Contract to the same extent as if set forth herein in full.

ARTICLE III-TIME OF COMPLETION: The CONTRACTOR further covenants and agrees  
at his own proper cost and expense, to do all work as aforesaid for the con-  
struction of said improvements and to completely construct the same and install  
the material therein, as called for by this agreement free and clear of all  
claims, liens, and charges whatsoever, in the manner and under the conditions  
specified within the time, or times, stated in the proposal pamphlet.

ARTICLE IV-PAYMENTS: For and in consideration of the faithful performance  
of the work herein embraced as set forth in the Contract Documents, which are a  
part hereof and in accordance with the directions of the OWNER, through its  
Engineer and to his satisfaction, the OWNER agrees to pay the said CONTRACTOR  
the amount earned, computed from actual quantities of work performed and  
accepted or materials furnished at the unit bid price on the Proposal made a  
part hereof, and to make such payment within forty (40) days after final  
inspection and acceptance of the work.

IN WITNESS WHEREOF: Four (4) identical counterparts of this Contract each of which shall for all purposes be deemed an original thereof, have been duly executed by the parties hereinabove named, on the date and year first above written.

The CONTRACTOR agrees that this Contract, as awarded, is for the stated work, and understands that payment for the total work will be made on the basis of the indicated amount(s), as bid in the Proposal.

PARTY OF THE FIRST PART

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
PARTY OF THE SECOND PART

\_\_\_\_\_

By: \_\_\_\_\_  
Chairman, Board of Directors

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

RECOMMENDED BY:

ATTEST:

\_\_\_\_\_  
Chief Engineer and General Manager  
Flood Control District  
of Maricopa County

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

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

LEGAL REVIEW

Approved as to form and within the powers and authority granted under the laws of the State of Arizona to the Flood Control District of Maricopa County.

By: \_\_\_\_\_

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

CONTRACT NO. FCD 87-53

STATUTORY PAYMENT BOND PURSUANT TO TITLE 34  
CHAPTER 2, ARTICLE 2, OF THE ARIZONA REVISED STATUTES  
(Penalty of this bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS:

That, \_\_\_\_\_  
(hereinafter called the Principal), as Principal, and

\_\_\_\_\_ a corporation organized and existing under the laws of the State of \_\_\_\_\_, with its principal office in the City of \_\_\_\_\_, (hereinafter called the Surety), as Surety, are held and firmly bound unto the Flood Control District of Maricopa County, State of Arizona (hereinafter called the Obligee) in the amount of \_\_\_\_\_ dollars (\$ \_\_\_\_\_), for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the Obligee, dated the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, for \_\_\_\_\_

\_\_\_\_\_ which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall promptly pay all moneys due to all persons supplying labor or materials to him or his subcontractors in the prosecution of the work provided for in said contract, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Title 34, Chapter 2, Article 2, of the Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions, of said Title, Chapter, and Article, to the extent as if it were copied at length herein.

The prevailing party or any party which recovers judgment on this bond shall be entitled to such reasonable attorney's fees as may be fixed by the court or a judge thereof.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

\_\_\_\_\_  
PRINCIPAL SEAL

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

\_\_\_\_\_  
AGENCY OF RECORD

\_\_\_\_\_  
SURETY SEAL

\_\_\_\_\_  
AGENCY ADDRESS

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

\_\_\_\_\_  
POWER OF ATTORNEY SEAL

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

CONTRACT NO. FCD 87-53  
PAYMENT BOND

STATUTORY PERFORMANCE BOND PURSUANT TO TITLE 34  
CHAPTER 2, ARTICLE 2, OF THE ARIZONA REVISED STATUTES  
(Penalty of this bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS:

That, \_\_\_\_\_  
(hereinafter called the Principal), as Principal, and

\_\_\_\_\_ a corporation organized and existing under the laws of the State of \_\_\_\_\_, with its principal office in the City of \_\_\_\_\_ (hereinafter called the Surety), as Surety, are held and firmly bound unto the Flood Control District of Maricopa County, in the County of Maricopa, State of Arizona, in the amount of \_\_\_\_\_ dollars (\$ \_\_\_\_\_), for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the Flood Control District of Maricopa County, dated the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, for \_\_\_\_\_

\_\_\_\_\_ which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall faithfully perform and fulfill all the undertakings, covenants, terms, conditions and agreements of said contract during the original term of said contract and any extension thereof, with or without notice to the Surety, and during the life of any guaranty required under the contract, and shall also perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the Surety being hereby waived; then the above obligation shall be void, otherwise to remain in full force and effect;

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Title 34, Chapter 2, Article 2, of the Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions of said Title, Chapter, and Article, to the extent as if it were copied at length herein.

The prevailing party in a suit on this bond shall be entitled to such reasonable attorney's fees as may be fixed by a judge of the court.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

\_\_\_\_\_  
PRINCIPAL SEAL

\_\_\_\_\_  
AGENCY OF RECORD

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

\_\_\_\_\_  
AGENCY ADDRESS

\_\_\_\_\_  
SURETY SEAL

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

CONTRACT NO. FCD 87-53  
PERFORMANCE BOND

\_\_\_\_\_  
POWER OF ATTORNEY SEAL

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

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CERTIFICATE OF INSURANCE

CONTRACT FCD 87-53 PROJECT TITLE 7th Avenue Bridge

NAME AND ADDRESS OF INSURANCE AGENCY	INSURANCE COMPANIES AFFORDING COVERAGES
	Company Letter <b>A</b>
	Company Letter <b>B</b>
	Company Letter <b>C</b>
NAME AND ADDRESS OF INSURED	Company Letter <b>D</b>
	Company Letter <b>E</b>
	Company Letter <b>F</b>
	Company Letter <b>G</b>

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE AND ARE IN FORCE AT THIS TIME.

COMPANY LETTER	TYPE OF INSURANCE	POLICY NUMBER	EXPIRATION DATE	LIMITS OF LIABILITY IN \$1,000	
				MINIMUM	each occurrence
	<input checked="" type="checkbox"/> Commercial GENERAL LIABILITY FORM <input checked="" type="checkbox"/> PREMISES OPERATIONS <input checked="" type="checkbox"/> CONTRACTUAL <input checked="" type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input checked="" type="checkbox"/> EXPLOSION & COLLAPSE <input checked="" type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input checked="" type="checkbox"/> UNDERGROUND HAZARD <input checked="" type="checkbox"/> INDEPENDENT CONTRACTORS <input checked="" type="checkbox"/> PERSONAL INJURY			BODILY INJURY per person	\$1,000
				each occurrence	\$5,000
				PROPERTY DAMAGE	\$1,000
	<input checked="" type="checkbox"/> COMPREHENSIVE AUTO LIABILITY & NON-OWNED			SAME AS ABOVE	
	<input type="checkbox"/> EXCESS LIABILITY			NECESSARY IF UNDERLYING NOT ABOVE MINIMUM	
	<input checked="" type="checkbox"/> WORKERS' COMPENSATION and EMPLOYERS' LIABILITY			STATUTORY	
				each accident	\$100
	<input type="checkbox"/> OTHER				

The Flood Control District of Maricopa County is added as an additional insured as respects work done for the District by the named insured as required by statute, contract, purchase order or otherwise requested. It is agreed that any insurance available to the named insured shall be primary of other sources that may be available. It is further agreed that no policy shall expire, be cancelled or materially changed to effect the coverage available to the District without fifteen days written notice to the District. THIS CERTIFICATE IS NOT VALID UNLESS COUNTERSIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE INSURANCE COMPANY.

Name/Address of Additional Insured  
 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
 3335 West Durango Street  
 Phoenix, Arizona 85009

DATE ISSUED \_\_\_\_\_

AUTHORIZED REPRESENTATIVE \_\_\_\_\_

It is further agreed that:

The Contractor hereby agrees to indemnify and save harmless the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, or any of its departments, agencies, officers or employees, from and against all loss, expense, damage or claim of any nature whatsoever which is caused by any activity, condition or event arising out of the performance or nonperformance of any of the provisions of this Agreement. The Flood Control District of Maricopa County shall in all instances be indemnified against all liability, losses and damages of any nature for or on account of any injuries to or death of persons or damages to or destruction of property arising out of or in any way connected with the performance or nonperformance of this Agreement, except such injury or damage as shall have been occasioned by the negligence of the Flood Control District of Maricopa County. The above cost of damages incurred by the Flood Control District of Maricopa County or any of its departments, agencies, officers or employees shall include in the event of an action, court costs, expenses for litigation and reasonable attorney's fees.

Date \_\_\_\_\_

\_\_\_\_\_  
Contractor

CERTIFICATE OF INSURANCE  
CONTRACT FCD 87-53

FLOOD CONTROL DISTRICT of Maricopa County

Tabulation of Bids

Project: 7th Avenue Bridge over the Arizona Canal Diversion Channel

Contract Number: FCD 87-53

Date Opened: October 6, 1988

Pg. 1 of 4

Pay Item No.	Description	Unit	Bid Quant	Engineers Estimate		Meadow Valley Contr		R.E.MillerPav&Const		JWJ Contracting		Unit Price	Bid Total
				Unit Price	Bid Total	Unit Price	Bid Total	Unit Price	Bid Total	Unit Price	Bid Total		
206-1	Structure Excavation (Approx 1166 cy)	L.S.	1	10500.00	10,500.00	18603.00	18,603.00	23000.00	23,000.00	2500.00	2,500.00		
206-2	Structure Backfill (Approx 145 cy)	L.S.	1	3200.00	3,200.00	7003.00	7,003.00	5000.00	5,000.00	3000.00	3,000.00		
215	Channel Excavation (Approx. 2610 cy) (Expose Bottom of Bridge)	L.S.	1	13000.00	13,000.00	18140.00	18,140.00	8000.00	8,000.00	7000.00	7,000.00		
300-1	Roadway Reconstruction	L.S.	1	15000.00	15,000.00	9650.00	9,650.00	6000.00	6,000.00	15000.00	15,000.00		
300-2	Sawcut Pavement at Detour	L.F.	610	2.00	1,220.00	1.25	762.50	1.00	610.00	1.00	610.00		
310-1	Aggregate Base Course (for Detour and Concrete Filler Slab)	Ton	289	12.00	3,468.00	12.40	3,583.60	11.00	3,179.00	18.00	5,202.00		
321-1	C-3/4" Asphaltic Concrete (for Detour)	Ton	279	40.00	11,160.00	43.00	11,997.00	30.00	8,370.00	35.00	9,765.00		
336	Sawcut, Remove & Surface Replacement, Type "A", Det. 200	S.Y.	649	55.00	35,695.00	14.80	9,605.20	17.00	11,033.00	32.00	20,768.00		
350-1	Miscellaneous Removals	L.S.	1	10000.00	10,000.00	7065.00	7,065.00	8000.00	8,000.00	25000.00	25,000.00		
401	Traffic Control	L.S.	1	60000.00	60,000.00	7935.00	7,935.00	33000.00	33,000.00	43417.00	43,417.00		
440-1	4" PVC Pipe (for Sleeve)	L.F.	180	4.50	810.00	3.50	630.00	6.00	1,080.00	4.00	720.00		
440-2	8" PVC Pipe (for Sleeve)	L.F.	180	10.00	1,800.00	7.60	1,368.00	9.00	1,620.00	10.00	1,800.00		
505-1	Class A Concrete, f'c + 3,000 psi	C.Y.	125	210.00	26,250.00	186.00	23,250.00	175.00	21,875.00	110.00	13,750.00		
505-2	Class AA Concrete, f'c = 4,000 psi	C.Y.	544	230.00	125,120.00	240.00	130,560.00	220.00	119,680.00	190.00	103,360.00		
505-3	Reinforcing Steel	Lbs.	180038	0.50	90,019.00	0.38	68,414.44	0.40	72,015.20	0.40	72,015.20		
505-4	Drilled Shafts (36")	L.F.	995	100.00	99,500.00	82.00	81,590.00	90.00	89,550.00	100.00	99,500.00		
520	Pedestrian Fence	L.F.	184	50.00	9,200.00	25.30	4,655.20	35.00	6,440.00	28.00	5,152.00		
610-1	Furnish and Install 6" Water Line	L.F.	1172	26.00	30,472.00	19.20	22,502.40	27.00	31,644.00	20.00	23,440.00		
610-2	Furnish and Install 6" Tapping Sleeve Valve with Box & Cover, Type A, Det. 340 & Det. 391-1-A	Each	2	1000.00	2,000.00	685.00	1,370.00	900.00	1,800.00	800.00	1,600.00		
610-3	Furnish and Install 6" Valve with Box & Cover, Type D, Det. 391-1-A	Each	1	500.00	500.00	665.00	665.00	400.00	400.00	1000.00	1,000.00		
610-4	Furnish and Install 4" Water Line	L.F.	242	25.00	6,050.00	21.30	5,154.60	30.00	7,260.00	18.00	4,356.00		
610-5	Furnish and Install 4" Tapping Sleeve Valve with Box & Cover, Type D, Det. 391-1-A	Each	1	900.00	900.00	583.62	583.62	900.00	900.00	700.00	700.00		
610-6	Furnish and Install 3" Water Line	L.F.	38	40.00	1,520.00	53.20	2,021.60	70.00	2,660.00	30.00	1,140.00		
610-7	Furnish and Install Fire Hydrant	Each	3	800.00	2,400.00	1495.00	4,485.00	1500.00	4,500.00	1800.00	5,400.00		
610-8	Cast Iron Fittings (Not shown on plans)	Lbs.	100	1.00	100.00	2.00	200.00	3.00	300.00	2.00	200.00		
610-9	Water Service Connection	Each	1	650.00	650.00	555.00	555.00	500.00	500.00	900.00	900.00		
615-1	Furnish and Install 8" VCP Sanitary Sewer	L.F.	1155	25.00	28,875.00	22.80	26,334.00	20.00	23,100.00	21.00	24,255.00		

FLOOD CONTROL DISTRICT of Maricopa County

Tabulation of Bids

Project: 7th Avenue Bridge over the  
Arizona Canal Diversion Channel

Contract Number: FCD 87-53

Date Opened: October 6, 1988

Pg. 2 of 4

Pay Item No.	Description	Unit	Bid	Engineers Estimate		Meadow Valley Contr		R.E.MillerPav&Const		JWJ Contracting		Unit	Bid
				Quant	Price	Total	Price	Total	Price	Total	Price		
615-2	Furnish and Install 6'-6" length of 8" VCP & Coupling at Existing 8" Sanitary Sewer West of Manhole 13			Item deleted per Addendum #1.									
618-1	15" Storm Sewer Pipe (RCP, Class II)	L.F.	62	40.00	2,480.00	45.30	2,808.60	40.00	2,480.00	35.00	2,170.00		
618-2	15" Storm Sewer Pipe (CSP, 14 Gauge)	L.F.	130	40.00	5,200.00	44.00	5,720.00	35.00	4,550.00	36.00	4,680.00		
618-3	Temporary Catch Basin, Grate & Storm	L.S.	1	1000.00	1,000.00	1665.90	1,665.90	1500.00	1,500.00	2000.00	2,000.00		
625-1	Manhole (Temporary)	Each	2	1100.00	2,200.00	525.00	1,050.00	850.00	1,700.00	900.00	1,800.00		
625-2	4' Dia. Sanitary Sewer Manhole, Std. Det. 420 and 424	Each	5	1800.00	9,000.00	1320.00	6,600.00	900.00	4,500.00	1000.00	5,000.00		
625-3	Furnish and Install Sanitary Sewer Pipe Plugs, Std. Det. 427	Each	13	300.00	3,900.00	48.90	635.70	150.00	1,950.00	500.00	6,500.00		
625-4	Fill & Abandon Manhole, and Plug Pipe(s)	Each	9	600.00	5,400.00	279.00	2,511.00	400.00	3,600.00	700.00	6,300.00		
Bid Total					\$618,589.00		\$489,684.36		\$511,796.20		\$520,000.00		
Difference, Dollars													
From Engineer's Estimate					N/A		\$128,904.64		\$106,792.80		\$ 98,589.00		
From Lowest Bidder					+	\$128,904.64		N/A		+	\$ 22,111.84		+

FLOOD CONTROL DISTRICT of Maricopa County

Tabulation of Bids

7th Avenue Bridge over the  
Project: Arizona Canal Diversion Channel

Contract Number: FCD 87-53

Date Opened: October 6, 1988

Pg. 3 of 4

Pay Item No.	Description	Unit	Bid Quant	C S Construction		Nesbitt Contracting		R.L.Wadsworth Constr		MAC Contracting, Inc		Unit	Bid Total
				Unit Price	Bid Total	Unit Price	Bid Total	Unit Price	Bid Total	Unit Price	Bid Total		
206-1	Structure Excavation (Approx 1166 cy)	L.S.	1	8000.00	8,000.00	12000.00	12,000.00	7000.00	7,000.00	6100.00	6,100.00		
206-2	Structure Backfill (Approx 145 cy)	L.S.	1	10000.00	10,000.00	5000.00	5,000.00	2000.00	2,000.00	3400.00	3,400.00		
215	Channel Excavation (Approx. 2610 cy) (Expose Bottom of Bridge)	L.S.	1	11000.00	11,000.00	21000.00	21,000.00	10440.00	10,440.00	7350.00	7,350.00		
300-1	Roadway Reconstruction	L.S.	1	15000.00	15,000.00	15000.00	15,000.00	3220.00	3,220.00	10000.00	10,000.00		
300-2	Sawcut Pavement at Detour	L.F.	610	1.00	610.00	1.00	610.00	2.00	1,220.00	1.30	793.00		
310-1	Aggregate Base Course (for Detour and Concrete Filler Slab)	Ton	289	65.00	18,785.00	20.00	5,780.00	8.00	2,312.00	13.00	3,757.00		
321-1	C-3/4" Asphaltic Concrete (for Detour)	Ton	279	60.00	16,740.00	50.00	13,950.00	28.00	7,812.00	50.00	13,950.00		
336	Sawcut, Remove & Surface Replacement, Type "A", Det. 200	S.Y.	649	16.00	10,384.00	30.00	19,470.00	31.80	*20,638.20	11.00	7,139.00		
350-1	Miscellaneous Removals	L.S.	1	5000.00	5,000.00	20000.00	20,000.00	101000.00	101,000.00	15500.00	15,500.00		
401	Traffic Control	L.S.	1	25000.00	25,000.00	45000.00	45,000.00	26518.00	26,518.00	43000.00	43,000.00		
440-1	4" PVC Pipe (for Sleeve)	L.F.	180	7.00	1,260.00	10.00	1,800.00	8.00	1,440.00	11.00	1,980.00		
440-2	8" PVC Pipe (for Sleeve)	L.F.	180	10.00	1,800.00	14.00	2,520.00	10.00	1,800.00	15.00	2,700.00		
505-1	Class A Concrete, f'c + 3,000 psi	C.Y.	125	160.00	20,000.00	160.00	20,000.00	150.00	18,750.00	230.00	28,750.00		
505-2	Class AA Concrete, f'c = 4,000 psi	C.Y.	544	190.00	103,360.00	200.00	108,800.00	250.00	136,000.00	240.00	130,560.00		
505-3	Reinforcing Steel	Lbs.	180038	0.35	63,013.30	0.40	72,015.20	0.33	59,412.54	0.50	90,019.00		
505-4	Drilled Shafts (36")	L.F.	995	100.00	99,500.00	80.00	79,600.00	100.00	99,500.00	87.00	86,565.00		
520	Pedestrian Fence	L.F.	184	32.00	5,888.00	30.00	5,520.00	40.00	7,360.00	30.00	5,520.00		
610-1	Furnish and Install 6" Water Line	L.F.	1172	30.00	35,160.00	30.00	35,160.00	12.00	14,064.00	28.00	32,816.00		
610-2	Furnish and Install 6" Tapping Sleeve Valve with Box & Cover, Type A, Det. 340 & Det. 391-1-A	Each	2	1200.00	2,400.00	1400.00	2,800.00	750.00	1,500.00	1800.00	3,600.00		
610-3	Furnish and Install 6" Valve with Box & Cover, Type D, Det. 391-1-A	Each	1	400.00	400.00	400.00	400.00	500.00	500.00	500.00	500.00		
610-4	Furnish and Install 4" Water Line	L.F.	242	30.00	7,260.00	24.00	5,808.00	12.00	2,904.00	31.00	7,502.00		
610-5	Furnish and Install 4" Tapping Sleeve Valve with Box & Cover, Type D, Det. 391-1-A	Each	1	1200.00	1,200.00	850.00	850.00	750.00	750.00	1100.00	1,100.00		
610-6	Furnish and Install 3" Water Line	L.F.	38	40.00	1,520.00	45.00	1,710.00	12.00	456.00	50.00	1,900.00		
610-7	Furnish and Install Fire Hydrant	Each	3	2000.00	6,000.00	1600.00	4,800.00	1500.00	4,500.00	2000.00	6,000.00		
610-8	Cast Iron Fittings (Not shown on plans)	Lbs.	100	3.00	300.00	1.00	100.00	5.00	500.00	1.00	100.00		
610-9	Water Service Connection	Each	1	1000.00	1,000.00	1200.00	1,200.00	300.00	300.00	1600.00	1,600.00		
615-1	Furnish and Install 8" VCP Sanitary Sewer	L.F.	1155	25.00	28,875.00	33.00	38,115.00	20.00	23,100.00	32.00	36,960.00		

FLOOD CONTROL DISTRICT of Maricopa County

Tabulation of Bids

Project: 7th Avenue Bridge over the Arizona Canal Diversion Channel

Contract Number: FCD 87-53

Date Opened: October 6, 1988

Pg. 4 of 4

Pay Item No.	Description	C S Construction				Nesbitt Contracting		R.L.WadsworthConstr		MAC Contracting, Inc		Unit	Bid
		Unit	Bid	Unit	Bid	Unit	Bid	Unit	Bid	Unit	Bid		
		Quant	Price	Total	Price	Total	Price	Total	Price	Total	Price	Total	
615-2	Furnish and Install 6'-6" length of 8" VCP & Coupling at Existing 8" Sanitary Sewer West of Manhole 13	Item deleted per Addendum #1.											
618-1	15" Storm Sewer Pipe (RCP, Class II)	L.F.	62	50.00	3,100.00	38.00	2,356.00	30.00	1,860.00	50.00	3,100.00		
618-2	15" Storm Sewer Pipe (CSP, 14 Gauge)	L.F.	130	50.00	6,500.00	38.00	4,940.00	30.00	3,900.00	50.00	6,500.00		
618-3	Temporary Catch Basin, Grate & Storm	L.S.	1	1500.00	1,500.00	1200.00	1,200.00	800.00	800.00	1500.00	1,500.00		
625-1	Manhole (Temporary)	Each	2	1300.00	2,600.00	600.00	1,200.00	1000.00	2,000.00	700.00	1,400.00		
625-2	4' Dia. Sanitary Sewer Manhole, Std. Det. 420 and 424	Each	5	1000.00	5,000.00	1400.00	7,000.00	1200.00	6,000.00	1800.00	9,000.00		
625-3	Furnish and Install Sanitary Sewer Pipe Plugs, Std. Det. 427	Each	13	100.00	1,300.00	100.00	1,300.00	50.00	650.00	125.00	1,625.00		
625-4	Fill & Abandon Manhole, and Plug Pipe(s)	Each	9	500.00	4,500.00	400.00	3,600.00	350.00	3,150.00	400.00	3,600.00		
Bid Total					\$523,955.30		\$560,604.20		*\$573,356.74		\$575,886.00		

\*Denotes error in extension, corrected herein.

Difference, Dollars

From Engineer's Estimate	-	\$ 94,633.70	-	\$ 57,984.80	-	\$ 45,232.26	-	\$ 42,703.00
From Lowest Bidder	+	34,270.94	+	\$ 70,919.84	+	\$ 83,672.38	+	\$ 86,201.64

BIDDING SCHEDULE

PROJECT: 7th Avenue Bridge over the  
Arizona Canal Diversion Channel

CONTRACT: FCD 87-53

*Engineer's Estimate*

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
206-1	1	L.S.	Structure Excavation (Approx 1166 cy)		10,500.00	10,500.00
206-2	1	L.S.	Structure Backfill (Approx 145 cy)		3,200.00	3,200.00
215	1	L.S.	Channel Excavation (Approx 2610 cy) (Expose Bottom of Bridge)		13,000.00	13,000.00
300-1	1	L.S.	Roadway Reconstruction		15,000.00	15,000.00
300-2	610	L.F.	Sawcut Pavement at Detour		2.00	1,220.00
310-1	<del>289</del> <del>204</del>	Ton	Aggregate Base Course (for Detour and Concrete Filler Slab)		12.00	<del>3,468.00</del> <del>2,448.00</del>
321-1	<del>279</del> <del>234</del>	Ton	C-3/4" Asphaltic Concrete (for Detour)		40.00	<del>11,160.00</del> <del>9,360.00</del>
336	<del>649</del> <del>550</del>	S.Y.	Sawcut, Remove and Surface Replacement, Type "A", Det. 200		55.00	<del>35,695.00</del> <del>30,250.00</del>
350-1	1	L.S.	Miscellaneous Removals		10,000.00	10,000.00
401	1	L.S.	Traffic Control		60,000.00	60,000.00
440-1	180	L.F.	4" PVC Pipe (for Sleeve)		4.50	810.00
440-2	180	L.F.	8" PVC Pipe (for Sleeve)		10.00	1,800.00
505-1	125	C.Y.	Class A Concrete, f'c = 3,000 psi		210.00	26,250.00
505-2	544	C.Y.	Class AA Concrete, f'c = 4,000 psi		230.00	125,120.00

BIDDING SCHEDULE

PROJECT: 7th Avenue Bridge over the  
Arizona Canal Diversion Channel

CONTRACT: FCD 87-53

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
505-3	180,038	Lbs.	Reinforcing Steel		.50	90,019.00
505-4	995	L.F.	Drilled Shafts (36")		100.00	99,500.00
520	184	L.F.	Pedestrian Fence		50.00	9,200.00
610-1	1,172	L.F.	Furnish and Install 6" Water Line		26.00	30,472.00
610-2	2	EA.	Furnish and Install 6" Tapping Sleeve Valve with Box and Cover, Type A, Det. 340 & Det. 391-1-A		1,000.00	2,000.00
610-3	1	EA.	Furnish and Install 6" Valve with Box and Cover, Type D, Det. 391-1-A		500.00	500.00
610-4	242	L.F.	Furnish and Install 4" Water Line		25.00	6,050.00
610-5	1	EA.	Furnish and Install 4" Tapping Sleeve Valve with Box and Cover, Type D, Det. 391-1-A		900.00	900.00
610-6	38	L.F.	Furnish and Install 3" Water Line		40.00	1,520.00
610-7	3	EA.	Furnish and Install Fire Hydrant		800.00	2,400.00
610-8	100	Lb.	Cast Iron Fittings (Not shown on the plans)		1.00	100.00
610-9	1	EA.	Water Service Connection		650.00	650.00
615-1	<del>900</del> 1155	L.F.	Furnish and Install 8" VCP Sanitary Sewer		25.00	<del>22,500.00</del> 28,875.00

BIDDING SCHEDULE

PROJECT: 7th Avenue Bridge over the  
Arizona Canal Diversion Channel

CONTRACT: FCD 87-53

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
<del>615-2</del>	<del>1</del>	EA.	<del>Furnish and Install 6'-6" length of 8" VCP &amp; Coupling at Existing 8" Sanitary Sewer West of Manhole 13</del>		<del>500.00</del>	<del>500.00</del>
618-1	62	L.F.	15" Storm Sewer Pipe (RCP, Class II)		40.00	2,480.00
618-2	130	L.F.	15" Storm Sewer Pipe (CSP, 14 Gauge)		40.00	5,200.00
618-3	1	L.S.	Temporary Catch Basin, Grate & Storm Drain Connection (See Sheet 10 of 17)		1,000.00	1,000.00
625-1	2	EA.	Manhole (Temporary)		1,100.00	2,200.00
625-2	5-4	EA.	4' Dia. Sanitary Sewer Manhole, Std. Det. 420 and 424		1,800.00	9,000.00 <del>7,200.00</del>
625-3	13-2	EA.	Furnish and Install Sanitary Sewer Pipe Plugs, Std. Det. 427		300.00	3,900.00 <del>3,600.00</del>
625-4	9-8	EA.	Fill and Abandon Manhole, and Plug Pipe(s)		600.00	5,400.00 <del>4,800.00</del>

The Bidder hereby acknowledges receipt of and agrees his proposal is based on the following Addenda

Total 618,589.00  
~~601,749.00~~

To Contract Documents

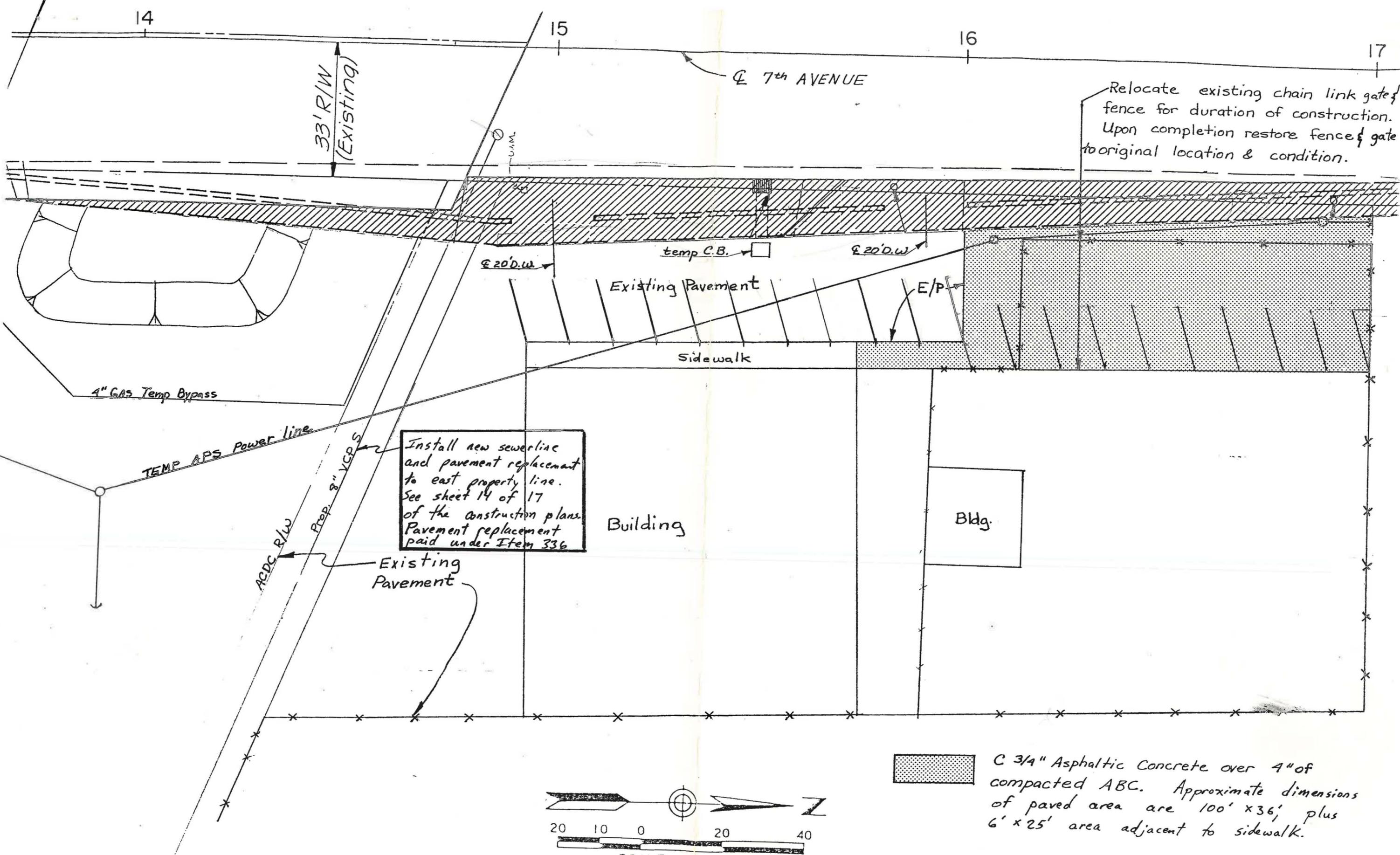
ENTITLED: SEVENTH AVENUE BRIDGE OVER THE ARIZONA CANAL DIVERSION CHANNEL

OWNER: Flood Control District of Maricopa County

The above documents are herein modified. The provisions of said documents applicable to these modifications remain unchanged unless specifically indicated otherwise herein. This Addendum forms a part of the contract documents and modifies them as follows:

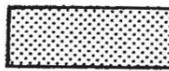
1. Exhibits A and B, attached, are a part of this Addendum.
2. The parking lot immediately north and east of the bridge site shall be paved with 2" of C 3/4" asphaltic concrete over 4" of compacted ABC as shown on the attached Exhibit A. The chain link fence and gate on this lot shall be temporarily relocated as shown on Exhibit A, and upon completion shall be restored to its original location and condition.
3. Construction Special Provisions page 10 of 22, SECTION 310 - UNTREATED BASE: In the last sentence, change the words "(FOR DETOUR AND CONCRETE FILLER SLAB)" to "(FOR DETOUR, CONCRETE FILLER SLAB, AND PARKING LOT)".
4. Construction Special Provisions page 10 of 22, SECTION 321 - ASPHALT CONCRETE PAVEMENT: In the last paragraph, change the words "(FOR DETOUR)" to "(FOR DETOUR AND PARKING LOT)".
5. Bidding Schedule Page 3a of 5: For item 310-1, change the approximate quantity from "204 Tons" to "289 Tons". Also change the description from "Aggregate Base Course (for detour and concrete Filler Slab)" to "Aggregate Base Course (for Detour, Concrete Filler Slab, and Parking Lot)".
6. Bidding Schedule Page 3a of 5: For item 321-1, change the approximate quantity from "234 Tons" to "279 Tons". Also change the description from "C-3/4" Asphaltic Concrete (for Detour)" to "C-3/4" Asphaltic Concrete (for Detour and Parking Lot)".
7. The contractor shall install approximately 255 lineal feet of additional 8" VCP sewer line and 1 additional 4' diameter manhole per the attached Exhibit B. Additional miscellaneous work is also shown on Exhibit B.
8. Bidding Schedule Page 3a of 5: For item 336, Sawcut , Remove and Surface Replacement, change the approximate quantity from "550 S.Y." to "649 S.Y.".
9. Bidding Schedule Page 3b of 5: For item 615-1 Furnish and Install 8" VCP Sanitary Sewer, change the approximate quantity from "900 L.F." to "1155 L.F.".
10. Bidding Schedule Page 3c of 5: Delete item 615-2 Furnish and Install 6'-6" length of 8" VCP & Coupling at Existing 8" Sanitary Sewer West of Manhole 13.

11. Bidding Schedule Page 3c of 5: For item 625-2, 4' Dia. Sanitary Sewer Manhole, change the approximate quantity from "4 each" to "5 each".
12. Bidding Schedule Page 3c of 5: For item 625-3 Furnish and Install Sanitary Sewer Pipe Plugs, change the approximate quantity from "12 EA." to "13 EA."
13. Bidding Schedule Page 3c of 5: For item 625-4 Fill and Abandon Manhole and Plug Pipe(s), change the approximate quantity from "8 EA." to "9 EA."
14. Construction Plans Sheet 13 of 17: For the 4" waterline between stations 0+00 and 0+78, the contractor shall install a new water service for the house directly to the north. This work shall be done as directed by the engineer, and the cost shall be included in related bid items.
15. Construction Plans Sheet 15 of 17: Delete a portion of the clouded note on the lower left hand corner of the sheet which reads "Install one length of pipe (Approx. 6') with couplers after removal of existing storm drain..."



Relocate existing chain link gate & fence for duration of construction. Upon completion restore fence & gate to original location & condition.

Install new sewerline and pavement replacement to east property line. See sheet 14 of 17 of the construction plans. Pavement replacement paid under Item 336


 C 3/4" Asphaltic Concrete over 4" of compacted ABC. Approximate dimensions of paved area are 100' x 36'; plus 6' x 25' area adjacent to sidewalk.

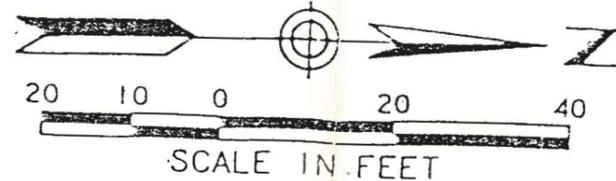
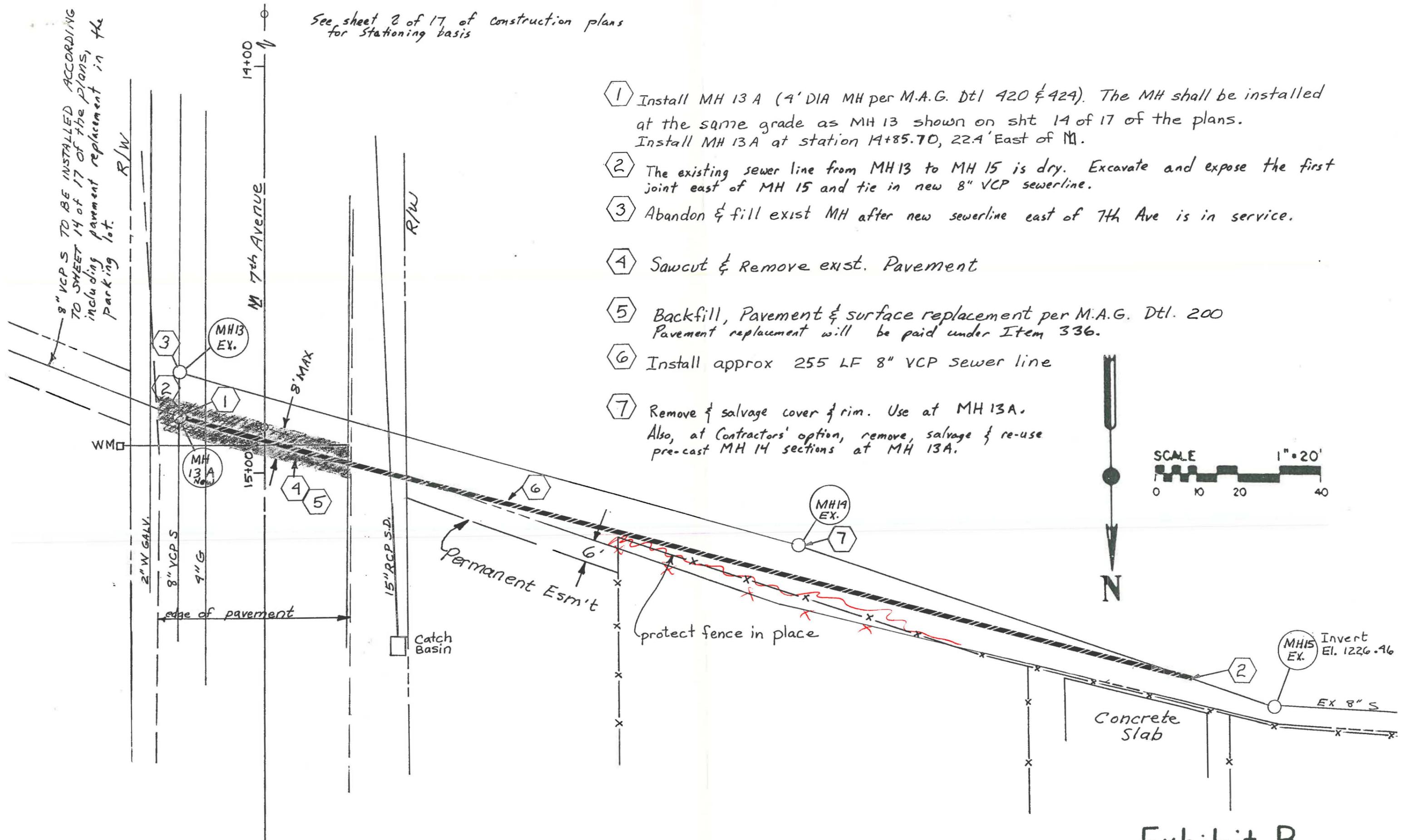


Exhibit A

See sheet 2 of 17 of construction plans for Stationing basis



- ① Install MH 13 A (4' DIA MH per M.A.G. Dtl 420 & 424). The MH shall be installed at the same grade as MH 13 shown on sht 14 of 17 of the plans. Install MH 13 A at station 14+85.70, 22.4' East of M.
- ② The existing sewer line from MH 13 to MH 15 is dry. Excavate and expose the first joint east of MH 15 and tie in new 8" VCP sewerline.
- ③ Abandon & fill exist MH after new sewerline east of 7th Ave is in service.
- ④ Sawcut & Remove exist. Pavement
- ⑤ Backfill, Pavement & surface replacement per M.A.G. Dtl. 200. Pavement replacement will be paid under Item 336.
- ⑥ Install approx 255 LF 8" VCP sewer line
- ⑦ Remove & salvage cover & rim. Use at MH 13A. Also, at Contractors' option, remove, salvage & re-use pre-cast MH 14 sections at MH 13A.



Exhibit B

To Contract Documents

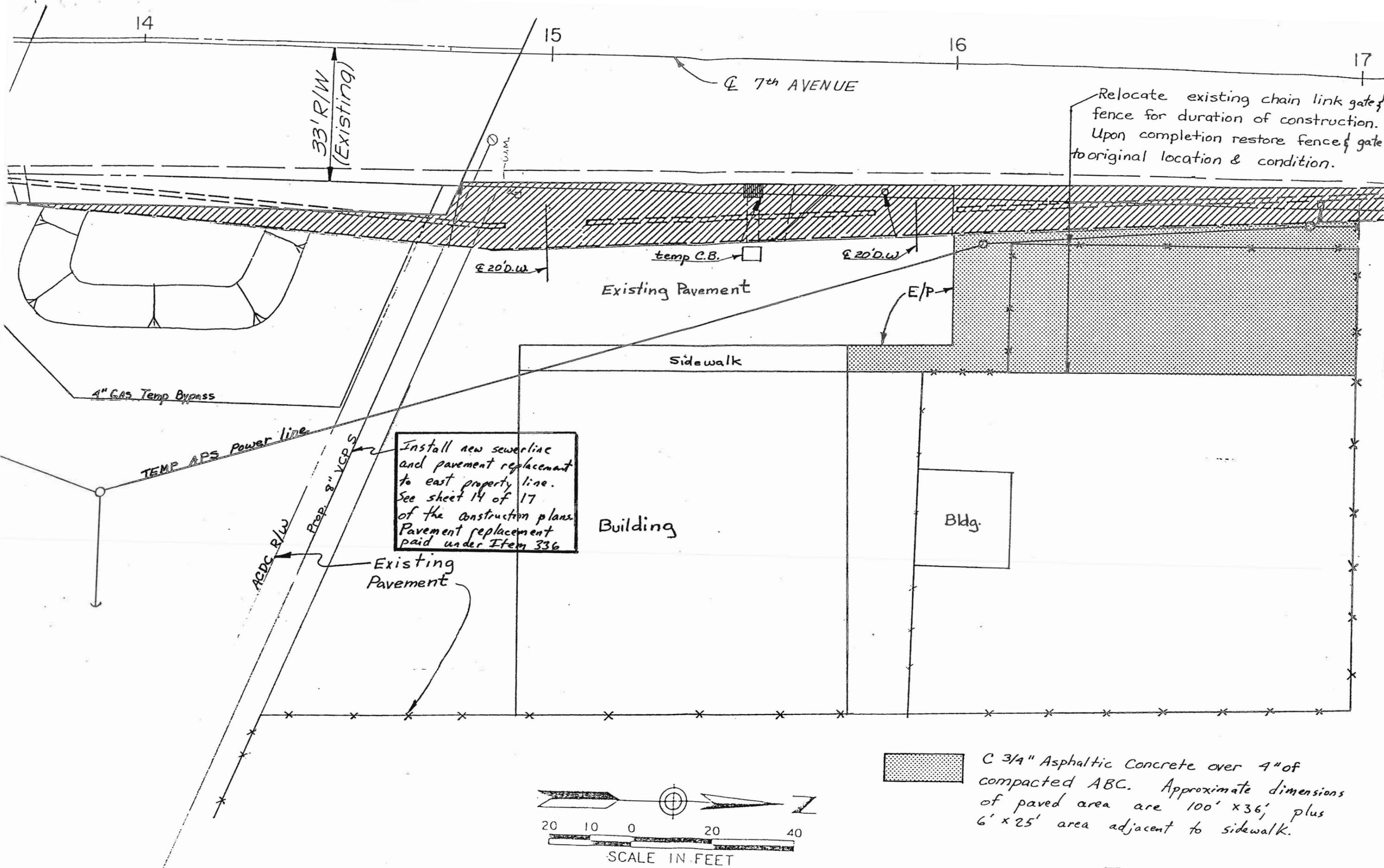
ENTITLED: SEVENTH AVENUE BRIDGE OVER THE ARIZONA CANAL DIVERSION CHANNEL.

OWNER: Flood Control District of Maricopa County

The above documents are herein modified. The provisions of said documents applicable to these modifications remain unchanged unless specifically indicated otherwise herein. This Addendum forms a part of the contract documents and modifies them as follows:

1. Exhibits A and B, attached, are a part of this Addendum.
2. The parking lot immediately north and east of the bridge site shall be paved with 2" of C 3/4" asphaltic concrete over 4" of compacted ABC as shown on the attached Exhibit A. The chain link fence and gate on this lot shall be temporarily relocated as shown on Exhibit A, and upon completion shall be restored to its original location and condition.
3. Construction Special Provisions page 10 of 22, SECTION 310 - UNTREATED BASE: In the last sentence, change the words "(FOR DETOUR AND CONCRETE FILLER SLAB)" to "(FOR DETOUR, CONCRETE FILLER SLAB, AND PARKING LOT)".
4. Construction Special Provisions page 10 of 22, SECTION 321 - ASPHALT CONCRETE PAVEMENT: In the last paragraph, change the words "(FOR DETOUR)" to "(FOR DETOUR AND PARKING LOT)".
5. Bidding Schedule Page 3a of 5: For item 310-1, change the approximate quantity from "204 Tons" to "289 Tons". Also change the description from "Aggregate Base Course (for detour and concrete Filler Slab)" to "Aggregate Base Course (for Detour, Concrete Filler Slab, and Parking Lot)".
6. Bidding Schedule Page 3a of 5: For item 321-1, change the approximate quantity from "234 Tons" to "279 Tons". Also change the description from "C-3/4" Asphaltic Concrete (for Detour)" to "C-3/4" Asphaltic Concrete (for Detour and Parking Lot)".
7. The contractor shall install approximately 255 lineal feet of additional 8" VCP sewer line and 1 additional 4' diameter manhole per the attached Exhibit B. Additional miscellaneous work is also shown on Exhibit B.
8. Bidding Schedule Page 3a of 5: For item 336, Sawcut , Remove and Surface Replacement, change the approximate quantity from "550 S.Y." to "649 S.Y.".
9. Bidding Schedule Page 3b of 5: For item 615-1 Furnish and Install 8" VCP Sanitary Sewer, change the approximate quantity from "900 L.F." to "1155 L.F.".
10. Bidding Schedule Page 3c of 5: Delete item 615-2 Furnish and Install 6'-6" length of 8" VCP & Coupling at Existing 8" Sanitary Sewer West of Manhole 13.





Relocate existing chain link gate & fence for duration of construction. Upon completion restore fence & gate to original location & condition.

Install new sewerline and pavement replacement to east property line. See sheet 14 of 17 of the construction plans. Pavement replacement paid under Item 336

C 3/4" Asphaltic Concrete over 4" of compacted ABC. Approximate dimensions of paved area are 100' x 36'; plus 6' x 25' area adjacent to sidewalk.

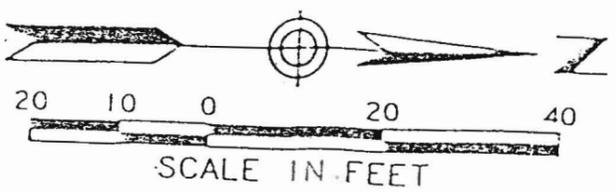
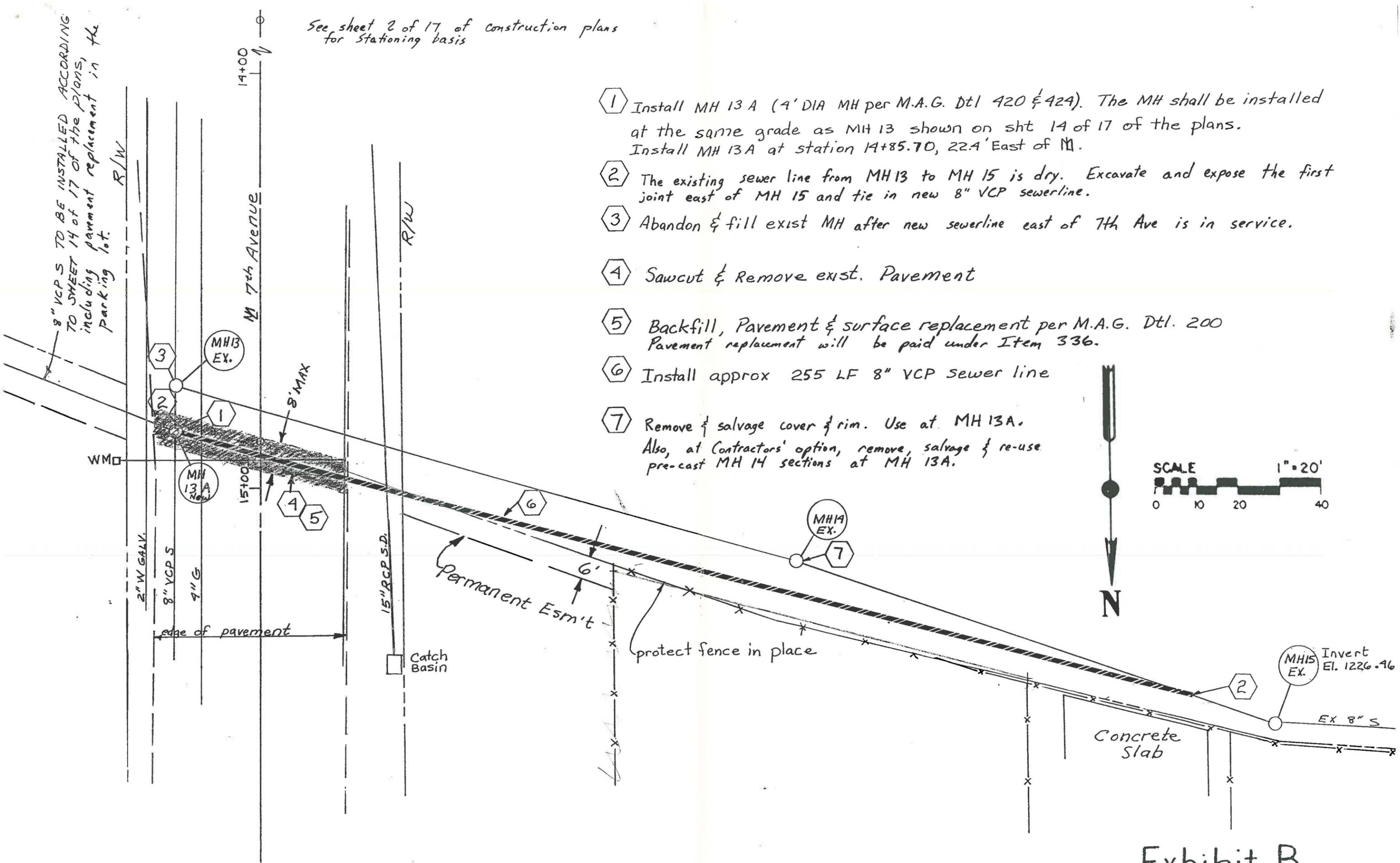


Exhibit A

See sheet 2 of 17 of construction plans for Stationing basis



8" VCP S TO BE INSTALLED ACCORDING TO SHEET 14 of 17 of the plans, including pavement replacement in the parking lot.

- ① Install MH 13 A (4' DIA MH per M.A.G. Dtl 420 & 424). The MH shall be installed at the same grade as MH 13 shown on sht 14 of 17 of the plans. Install MH 13 A at station 14+85.70, 22.4' East of M.
- ② The existing sewer line from MH 13 to MH 15 is dry. Excavate and expose the first joint east of MH 15 and tie in new 8" VCP sewerline.
- ③ Abandon & fill exist MH after new sewerline east of 7th Ave is in service.
- ④ Sawcut & Remove exist. Pavement
- ⑤ Backfill, Pavement & surface replacement per M.A.G. Dtl. 200. Pavement replacement will be paid under Item 336.
- ⑥ Install approx 255 LF 8" VCP sewer line
- ⑦ Remove & salvage cover & rim. Use at MH 13A. Also, at Contractors' option, remove, salvage & re-use pre-cast MH 14 sections at MH 13A.

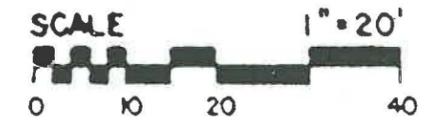


Exhibit B

PRECONSTRUCTION CONFERENCE

November 1, 1988

PROJECT: 7th Avenue Bridge over The Arizona Diversion Channel

CONTRACT NUMBER: FCD 87-53

OWNER: Flood Control District of Maricopa County  
3335 West Durango Street  
Phoenix, Arizona 85009

HNTB PROJECT NUMBER: 12853-31-00

*Nov 1 NTP  
Nov 7 MV starts ~~E~~  
May 29 completion  
Paul Cook - MV's working foreman  
\* Marshalling yard request submitted  
Paving Nov 1*

1.0 Introduction of Attendance

- 1.1 SIGN IN SHEET
- 1.2 OWNERS' PERSONNEL
- 1.3 HNTBS' PERSONNEL
- 1.4 CONTRACTORS' PERSONNEL
- 1.5 CONCERNED ENTITIES' PERSONNEL

2.0 Administration

- 2.1 NOTICE TO PROCEED
- 2.2 CONTRACT TIME
  - 2.2.1 210 Calendar days
  - 2.2.2 Contract Completion Date: May 29, 1989
- 2.3 WORK HOURS
- 2.4 INSURANCE CERTIFICATES
  - 2.4.1 Contractor provides copies of certificates.
- 2.5 BONDS
  - 2.5.1 Contractor provides copies of performance bonds.
- 2.6 SCHEDULE OF VALUES (*Bid schedule*)
  - 2.6.1 Contractor provides copies of schedule of values.
- 2.7 PROGRESS SCHEDULE
  - 2.7.1 Contractor provide schedule.
- 2.8 KEY PERSONNEL
  - 2.8.1 Provide name, firm and 24 Hour Telephone
- 2.9 SUBCONTRACTORS' LIST
  - 2.9.1 Contractor provide list indicating firm, work, address, phone and representative. Compare the list submitted with bid.
- 2.10 PERMITS *SRP not read*
  - 2.10.1 Verify that permits have been obtained.
- 2.11 PROJECT DOCUMENTS
  - 2.11.1 Does Contractor have the required documents?
  - 2.11.2 Precedence of Construction: Special Provisions, Project Plans, COP, and MAG
- 2.12 TIME EXTENSIONS
  - 2.12.1 Requests will be submitted in writing by the Contractor.

- 2.13 PROGRESS PAYMENT
  - 2.13.1 Submit payment by \_\_\_\_\_.
  - 2.13.2 Submit on FCD form.
  - 2.13.3 Payment for stored materials shall be documented.
  - 2.13.4 Retention will be \_\_\_\_\_%.
  - 2.13.5 In lieu of withholding retention \_\_\_\_\_.
  - 2.13.6 Early payment for materials
- 2.14 CHANGE ORDER

### 3.0 Coordination

- 3.1 COMMUNICATION
  - 3.1.1 Contractor-Inspector-Owner
  - 3.1.2 All requests for information shall be in writing.
  - 3.1.3 Clarification Request
- 3.2 SUBMITTALS/SHOP DRAWINGS
- 3.3 BLUE STAKE
- 3.4 WEEKLY MEETINGS *Thursday 9:30 on site*
  - 3.4.1 When and when?
- 3.5 PROJECT HOUSEKEEPING, SECURITY
- 3.6 TRAFFIC CONTROL - EMERGENCY VEHICLES
- 3.7 TRENCH EXCAVATION - SHORING
- 3.8 DUST CONTROL
  - 3.8.1 How will this be done?
- 3.9 MATERIAL STORAGE - SECURITY
- 3.10 DEBRIS DISPOSAL
  - 3.10.1 How will that be handled?
- 3.11 ACCIDENTS REPORTS
- 3.12 SAFETY, OSHA, SANITATION
- 3.13 ALCOHOL/DRUG USE
- 3.14 CONCERNED ENTITIES AT JOB-SITE

### 4.0 Technical

- 4.1 TESTING - TYPES
  - 4.1.1 Contractor provide sufficient timing to HNTB so that they can schedule testing.
- 4.2 INSPECTION
- 4.3 MATERIAL COMPLIANCE
  - 4.3.1 Contractor will provide certificates of compliance for required materials.
- 4.4 MATERIAL SUBSTITUTES
  - 4.4.1 Contractor will provide required documents in a timely manner for any substitute of materials or supplier.
- 4.5 SURVEY - PROVIDED BY HNTB
  - 4.5.1 Provide original base line and bench mark.
  - 4.5.2 Provide for quantities and as-built.

### 5.0 The Public

- 5.1 SAFETY
- 5.2 CONVENIENCE
- 5.3 NOISE
- 5.4 PROPERTY DAMAGE
- 5.5 COMPLAINTS

PROJECT: 7th Avenue Bridge over the Arizona Canal Diversion  
Channel

CONTRACT NUMBER: FCD 87-53

OWNER: Flood Control District of Maricopa County  
3335 West Durango Street  
Phoenix, Arizona 85009

AUTHORITY LIST:

Meadow Valley Contractors, Inc  
Attn.: Sergio Oliden  
Suite 108  
2810 S.24th Street  
Phoenix, Arizona 85034  
Phone: 275-3600

Mountain Bell Telephone Company  
Attn.: Robert Sleighter  
4425 W. Olive Avenue  
Room 211  
Glendale, Arizona 85301  
Phone: 842-7744

Salt River Project Operational Support  
Attn.: Tim Phillips  
P.O. Box 52025  
Phoenix, Arizona 85072-2025  
Phone: 236-3417

Arizona Public Service  
Attn.: Lois Winkler  
P.O.Box 53999-Sta.3278  
Phoenix, Arizona 85072-3999  
Phone: 371-6837

City of Phoenix Water & Wastewater Dept.  
Engineer & Development Division  
Attn.: Gerald Arakaki  
455 N.5th Street  
Phoenix, Arizona 85004  
Phone: 261-8229

City of Phoenix Streets & Traffic Dept.  
Attn.: Gary L. Suthers  
125 E. Washington Street  
Phoenix, Arizona 85004  
Phone: 262-6565

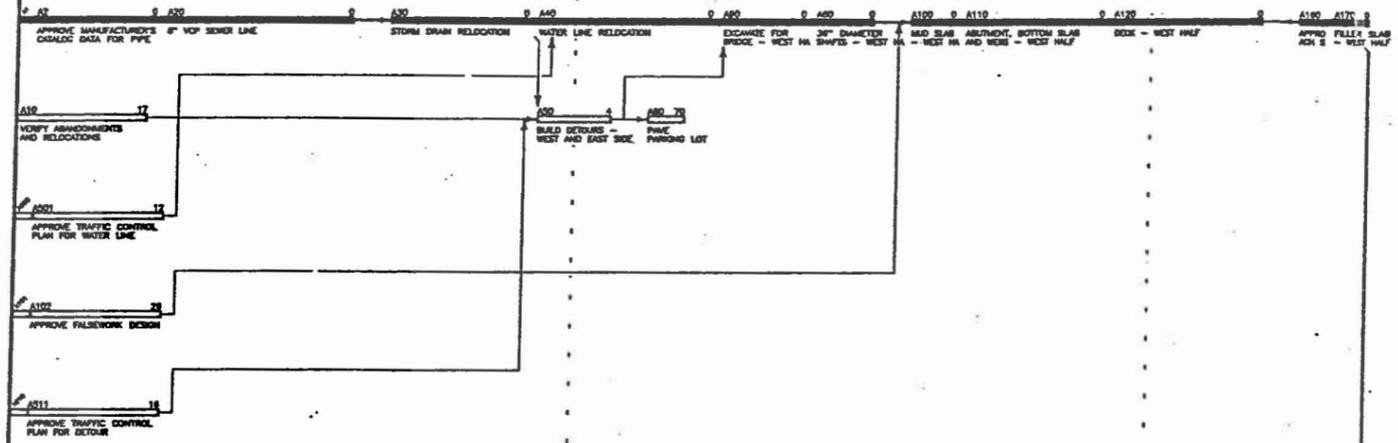
Southwest Gas Company  
Attn.: Ron Morenci, 420-583  
9 South 43th Avenue  
Phoenix, Arizona 85009  
Phone: 484-5254

Dimension Cable Services  
Attn.: Blair Tanner  
Suite 111  
17602 N. Black Canyon Hwy.  
Phoenix, Arizona 85023  
Phone: 866-0072

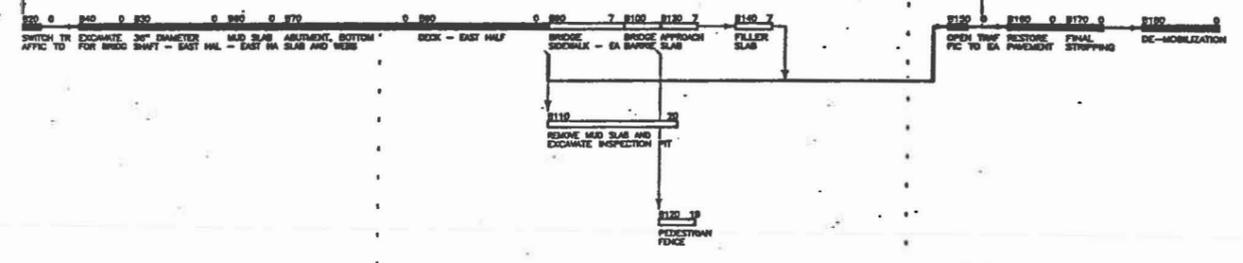


1988															1989																																																														
NOV															DEC															JAN															FEB															MAR																	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

7TH AVE. BRIDGE - PHASE I



7TH AVE. BRIDGE - PHASE II



act id    tf

description    Activity Bar/Early Dates

description    Critical Activity

description    Progress Bar

Primavera Systems, Inc. 1984,1985,1986,1987

Project Start : 31OCT88  
Project Finish: 16MAR89

FLOOD CONTROL DISTRICT OF MARICOPA  
7TH AVE. BRIDGE OVER FUTURE A.C.D.C.  
TIME SCALED LOGIC DIAGRAM

Sheet 1 of 1

Date Date: 1NOV88  
Plot Date: 27OCT88

PROJECT SCHEDULE			
Date	Revision	Checked	Approved

**HOWARD NEEDLES TAMMEN & BERGENDOFF**

November 18, 1988

Mr. Sergio E. Oliden  
Meadow Valley Contractors, Inc.  
2810 S. 24th Street, Suite 108  
Phoenix, Arizona 85034

Re: 7th Avenue Bridge over Arizona Canal Diversion Channel  
FCD Project No. 87-53  
HNTB Project No. 12853-31-00  
Existing Catch Basin

Dear Sergio:

The FCD has revised their thinking about the catch basin at the east side of 7th Avenue, north of the bridge. Detail 5 on Sheet 10 of the Plans shows 3/4" plywood temporary covering the grating. Due to the low elevation of the grating in respect to moving traffic bottoming out and that water can pond in this area they are requesting the following:

Install a piece of grating of the same size as the existing grating on top of the existing grating so that the top of the piece is 4" above the existing grating. The piece will be welded to the existing grating and shimmed as required. The asphalt concrete will then be placed to the top of the raised grating. After the construction of the bridge is completed the raised grating will be removed.

Very truly yours ,

HOWARD NEEDLES TAMMEN & BERGENDOFF

  
Jerry Saunders  
Project Inspector

pc: Paul Lindgren  
Ed Raleigh  
John Turner

FLOOD CONTROL DISTRICT RECEIVED		
NOV 18 1988		
CH. ENG		P & PM
DEP		HYDRO
ADMIN		LMGT
FINANCE	6	FILE 87-53
1 C & O	2	WHA
ENGR	3	PEL
REMARKS	4 EAB 5 EAR	

Architects Engineers Planners

Anchor Centre Two-Suite 400, 2207 East Camelback Road, Phoenix, Arizona 85016, 602 954-7420

**Partners** Gerard F. Fox PE, Charles T. Hennigan PE, Daniel J. Watkins PE, Daniel J. Spigai PE, John L. Cotton PE, Francis X. Hall PE, Robert S. Coma PE, Donald A. Dupies PE, William Love FAIA, Robert D. Miller PE, James L. Tuttle, Jr. PE, Hugh E. Schall PE, Cary C. Goodman AIA, Gordon H. Slaney, Jr. PE, Harvey K. Hammond, Jr. PE, Stephen G. Goddard PE, John W. Wight, Jr. PE

**Associates** Don R. Ort PE, Frederick H. Sterbenz PE, Robert B. Kollmar PE, Kendall T. Lincoln CPA, Roberts W. Smithem PE, Richard D. Beckman PE, Harry D. Bertossa PE, Ralph E. Robison PE, Cecil P. Counts PE, Stanley I. Mast PE, Robert W. Anzia PE, Walter Sharko PE, James O. Russell PE, Ross L. Jensen AIA, Frank T. Lamm PE, Ronald W. Aarons AIA, H. Jerome Butler PE, Blaise M. Carriere PE, Michael P. Ingardia PE, Bernard L. Prince PE, Stephen B. Quinn PE, Saul A. Jacobs PE, James A. Smith, Ewing H. Miller FAIA, Douglas C. Myhre PE, Carl J. Mellea PE, Daniel F. Becker PE, Richard L. Farnan AIA, Paul L. Jorgensen AIA, Donald P. Keuth PE, Douglas E. Prescott PE, Ronald L. Harje PE, Robert W. Luscombe PE, Thomas L. Williams AIA, John E. Kupke PE, Dennis E. Conklin PE, Rodney P. Pello PE, Steven M. Reiss AIA

**Offices** Alexandria, VA, Atlanta, GA, Austin, TX, Baton Rouge, LA, Boston, MA, Charleston, WV, Chicago, IL, Cleveland, OH, Dallas, TX, Denver, CO, Fairfield, NJ, Hartford, CT, Houston, TX, Indianapolis, IN, Kansas City, MO, Lexington, KY, Lexington, MA, Los Angeles, CA, Miami, FL, Milwaukee, WI, Minneapolis, MN, Nashua, NH, New York, NY, Orlando, FL, Overland Park, KS, Philadelphia, PA, Phoenix, AZ, Raleigh, NC, Seattle, WA, Tampa, FL, Tulsa, OK, Wilmington, DE

ΣΣ. 618,589.<sup>00</sup>

BID SUMMARY & CHECK LIST

Pg 1 of 2

SEVENTH AVENUE BRIDGE OVER THE  
PROJECT: ARIZONA CANAL DIVERSION CHANNEL

CONTRACT FCD: 87-53

DATE: October 6, 1988

FCD Personnel in Attendance

- Warren Anderson
- Ellery Biathrow
- Jan Warriner
- Paul Lindgren
- Joy Ketchum
- Ed Raleigh

Name	CS Construction	Meadow Valley Contractors, Inc	JWJ Contracting	MAC Contracting	Hesbitt Contracting	R & Miller
------	-----------------	--------------------------------	-----------------	-----------------	---------------------	------------

Bid Form	✓	✓	✓	✓	✓	✓
Schedule Complete	✓	✓	✓	✓	✓	✓
No Exceptions	✓	✓	✓	✓	✓	✓
Changes Initialed	✓	✓	✓	✓	✓	✓
Addenda Noted	✓	✓	✓	✓	✓	✓
Proposal Signed	✓	✓	✓	✓	✓	✓
License Number	✓	✓	✓	✓	✓	✓
Surety Bond	✓	✓	✓	✓	✓	✓
No Collusion Affidavit	✓	✓	✓	✓	✓	✓
Total Contract	523,955. <sup>30</sup>	489,684. <sup>36</sup>	520,000. <sup>00</sup>	575,886. <sup>00</sup>	560,604. <sup>20</sup>	511,796. <sup>20</sup>

4
1
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575,886.<sup>00</sup>

