

Cactus Basin Specifications & Change Orders

Specifications
&
Contract Documents
For
PVSP DRAINAGE SYSTEM

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Flood Control District of MC Library
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Phoenix, AZ 85009

PROJECT #8916
BID CALL 84-86



MAY, 1984



CAPITAL IMPROVEMENTS

ENGINEERING DIVISION LIBRARY

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NOTICE INVITING PROPOSALS OR BIDS

BID CALL #84-86

NOTICE IS HEREBY GIVEN that the Council of the City of Scottsdale, Maricopa County, State of Arizona, ordered: culvert, pipe and channel construction.
Along 71st Street from Mountain View to Cochise;
In the flood detention basin east of Scottsdale Road at Cactus Road
Along the east side of Scottsdale Road from Cactus to Thunderbird
Across the intersection of Scottsdale and Thunderbird Roads

SEALED BIDS WILL BE RECEIVED until 2:00 P.M., June 5, 1984 by the Purchasing Director at 7501 E. 2nd St., Scottsdale, Arizona 85251. At this time, the bids will be publicly opened and read aloud for furnishing: all equipment, labor and material necessary for the construction of five concrete box culverts, 1570 feet of 90" pipe, 800 feet of 48" pipe, 1200 feet of 60" pipe, excavation of open channels and detention basins, various concrete structures and street replacements at the locations listed above.

All proposals must be submitted on the proposal forms contained in the specifications and contract documents.

Each Bid shall be accompanied by a cashier's check or a bid bond acceptable to the City of Scottsdale for a penal sum of not less than ten percent (10%) of the amount of the bid made payable to the order of the City of Scottsdale, Arizona.

Bid proposals must be presented in sealed envelopes bearing on the face of the envelope, in the lower left hand corner, the name and address of the bidder, the Bid Call Number, the item bid, and time and date of the opening.

Bids received after the time and date specified above will be returned unopened to the bidder. A bid may be withdrawn prior to the time set for opening bids. No bid may be withdrawn for a period of sixty (60) days after the date set for receipt of bids.

Bid proposals accepted by the City constitute a legally binding offer. In addition, the successful bidder will be required to sign one of the City of Scottsdale's standard construction contracts.

Contact Bill Leimkuehler, 994-2348 for additional information.

The City Council reserves the right, as the interest of the owner may require, to reject any and all bids, to waive any informality in bids received, and to accept, increase or reduce the quantities of any or all items of any bid unless the bidder qualified such bid by specific limitation, and reserves the right to reject the bid of any person who has been delinquent or unfaithful to any contract with the City of Scottsdale.

Plans, specifications and proposal forms may be obtained from the Central Purchasing office at 7501 E. Second Street, Scottsdale, Arizona for a sum of thirty dollars (\$30). This fee is nonrefundable. For those contractors interested in purchasing plans and specifications by mail, there will be an

NOTICE INVITING PROPOSALS OR BIDS continued

additional advance charge of \$5.00 to cover postage and handling. Therefore, a check made payable to the City of Scottsdale in the amount of thirty five dollar (\$35.00) should accompany your request.

A Pre-bid conference will be held at the Scottsdale City Hall, 3939 Civic Center Plaza, Scottsdale, Arizona, on May 23, 1984, at 10:00 A.M.

The bid award will be delayed until July 2, 1984, in order to complete the required reviews and approvals necessary to make the award recommendations to the Flood Control District of Maricopa County and the Scottsdale Mayor and City Council.

All Bid Proposals received in response to this Bid Call shall, where applicable, be in conformance with City of Scottsdale Ordinance #848, Standard Bid, Contract and Purchase Commitment Terms and Conditions adopted by Resolution #1308 dated December 3, 1974. A reference copy is available at the City Clerk's Office.

CITY OF SCOTTSDALE, ARIZONA

By 
John Conley
Purchasing Director

INFORMATION FOR BIDDERSGENERAL

Plans, specifications, and proposal forms may be obtained from the Central Purchasing office at 7501 E. Second Street, Scottsdale, Arizona.

FOR THE PROPOSED WORK: The work consists of constructing culverts, pipelines, channels, basins, bank protection, street improvement replacements, traffic signal relocations, and other items of work shown on the plans and described at the end of this Special Provisions Section of these specifications.

BONDS REQUIRED

- a) Each proposal shall be accompanied by a cashier's check, or bid bond, acceptable to the City, in an amount equal to at least ten percent (10%) of the total amount of the proposal, payable without condition to the City as a guarantee that the bidder, if awarded the contract, will promptly execute such contract in accordance with the proposal and in manner and form required by the Contract Documents, and will furnish good and sufficient bond for the faithful performance of the same.
- b) Bonds in the following amounts will be required at the time of executing the formal contract:
 - (1) Performance bond - One Hundred (100%) percent of the contract price.
 - (2) Payment Bond - One Hundred (100%) percent of the contract price.

EXECUTION OF CONTRACT

The Contractor shall execute the contract with the City of Scottsdale within ten (10) days after receiving the Notice of Award for the contract.

START AND COMPLETION OF WORK

Work shall start within five (5) days after issuance of NOTICE TO PROCEED and shall be completed within one hundred fifty (150) calendar days after such issuance.

MEASUREMENT AND PAYMENT

Final payment shall be made within forty (40) days after approval of the final invoice by the City Inspector and a Contractor's Affidavit Regarding Settlement of Claims is received. The above affidavit shall be submitted on forms provided in this specifications book.

STANDARD DETAILS AND SPECIFICATIONS

Unless otherwise noted, construction of this Project shall be in accordance with all applicable Maricopa Association of Governments' Uniform Standard Specifications for Public Works Construction, latest revision, which may be obtained at the office of the Maricopa Association of Governments, 1820 W. Washington, Phoenix, Arizona. Standard Details shall be MAG or ADOT Standard Details, latest revision,

SUBMITTING BIDS

No bid will be considered unless it is made upon the "Proposal" forms contained in the Project specifications. Mark "BID CALL NO. 84-86 " on sealed envelope.

PLANS AND SPECIFICATIONS TO SUCCESSFUL BIDDER

The successful bidder may obtain five (5) sets of Plans and Specifications for this project from the Office of the Capital Engineering Manager at no cost. Additional sets will be furnished at cost.

CONTRACTOR'S INSURANCE COVERAGE

- a. Compensation Insurance: The Contractor shall secure and maintain during the life of the contract, Workmen's Compensation Insurance for all of his employees at the site of the project, and in case any of the work is sublet, the Contractor shall require each Subcontractor similarly to provide Workmen's Compensation Insurance for his employees unless such employees engaged are covered by the Contractor. In the event any class of employees engaged in the work under this contract at the site of the project is not protected by Workmen's Compensation Statute, the Contractor shall provide and similarly shall cause each Subcontractor to provide special insurance for the protection of such employees not otherwise protected.
- b. Public Liability and Property Damage Insurance: The Contractor shall take out, and maintain during the life of this Contract, such public liability and property damage insurance, both general and automobile liability, as shall protect him, any Subcontractor performing work under this contract and the City of Scottsdale from all claims for bodily injury, including accidental death, as well as for all claims for property damage arising from operations under this contract, whether such operations be by himself or by any subcontractor or by anyone directly or indirectly employed by either of them. The Contractor agrees to include the City of Scottsdale as an additional insured in all of the insurance policies required under this contract and such insurance shall be primary.

The minimum limits required are:

Workmen's Compensation Insurance shall be secured and maintained in accordance with the Workmen's Compensation Law of Arizona.

Comprehensive General Liability Insurance including broad form property damage, premises-operations, independent contractors, contractual, and automobile liability shall be secured and maintained in an amount not less than \$500,000 each occurrence for bodily injury and \$250,000 per person for bodily injury and \$250,000 each accident for property damage.

The general contractor subletting any part of the work awarded to him shall provide a contingent liability policy in the same amount as provided for his public liability insurance.

c. Policy Shall Include Coverage For:

1. Damage caused by blasting
2. Damage caused by collapse or structural injury.
3. Damage to underground utilities.

Liability assumed in construction agreements and other types of contracts or agreements in effect in connection with insured operations.

All owned, hired or non-owned automotive equipment used in connection with the insured operation.

- d. When the project includes construction of a new, or modification of an existing building (in addition to the above types):

Fire and Extended Coverage plus Vandalism and Malicious Mischief for the Full Amount of the Contract, less costs for any foundation, underground utilities and/or landscaping, with the City of Scottsdale named as an additional insured.

- e. It is agreed that none of these policies will be cancelled or changed so as to affect this certificate until ten (10) days written notice of such cancellation or change has been completed and the project has been accepted by the City of Scottsdale. (If a policy does expire during the life of the Contract, renewal Certificate of the required coverage must be sent to the City of Scottsdale not less than five days prior to expiration date.)
- f. The Contractor hereby agrees to and shall indemnify, defend and save harmless the City of Scottsdale and any jurisdiction or agency issuing permits for any work included in the project, their officers, agents and representatives from all suits, actions, loss, damage, expense, cost, or claims of any character or any nature brought on account of any injuries or damage sustained by any person or property arising out of the work done in fulfillment of the construction of the improvement under the terms of this agreement, on account of any act or omission by the contractor or his agents, or from any claims or amounts arising or recovered under Workmen's Compensation laws or any other law, by-law, ordinance, or order or decree.

PERMITS

Permits shall be obtained from the City of Scottsdale at no cost to the Contractor.

ENCROACHMENT PERMITS

Ordinance #403 or Code Part II, Title II, Chapter 2, Article 2, Sections 11-211 thru 11-224 outlines the requirement for Encroachment Permits. Permits when required must be acquired from Private Development Engineering. Field Engineering must be notified prior to the commencement of work and Field Engineering will represent the City for the purpose of inspecting the work for conformance to Plans, Specs, and detail as well as public safety requirements as authorized by Ordinance #403. The permits are issued at "No Charge" for City work.

ALTERNATE BID: The proposal pages must be completed for each pay item on the Alternate Bidding Schedule and will become part of the contract provided that notification of acceptance of all or selected alternate bid items of work by the City of Scottsdale is received within thirty (30) days of the bid opening date.

CONTRACTOR'S QUALIFICATIONS: The contractor shall be required to provide certification of prior satisfactory completion of similar construction. This requirement also applies to all sub-contractors.

GENERAL CONDITIONS1. SCOPE

The work covered by these specifications consists of furnishing all plans, labor, equipment, materials for construction of: the Paradise Valley, Scottsdale, Phoenix (PVSP) drainage system approved by an agreement between these local governments and the Flood Control District of Maricopa County

in accordance with the "STANDARD SPECIFICATIONS AND DETAIL", "THE GENERAL CONDITIONS" and the "SPECIAL PROVISIONS". The drawings which show the details of the work specified herein are designated as the "PLAN" and form an integral part of the contract documents.

In the event of any conflict between the "GENERAL CONDITIONS" and "SPECIAL PROVISIONS" and the requirements of the "STANDARD SPECIFICATION AND DETAILS" or "PLANS", these "GENERAL CONDITIONS AND SPECIAL PROVISIONS" shall prevail.

2. STANDARD SPECIFICATIONS AND DETAILS

Construction of this project and all work done under this Contract shall be in accordance with these specifications and all applicable UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION sponsored and distributed by Maricopa Association of Governments (MAG) and STANDARD DETAILS called for on the plans including the latest approved revisions and City of Scottsdale supplements thereto in force at the time of bid advertisement, which shall be referred to hereinafter as the "STANDARD SPECIFICATIONS". In all cases where accepted Standards (AWWA, ANSI, AASHTO, ADOT, ASTM, etc.) are referred to in the "STANDARD SPECIFICATIONS", the latest revisions as of bid advertisement shall prevail. Copies of the STANDARD SPECIFICATIONS and supplements may be obtained at the MAG Office at 1820 W. Washington, Phoenix, AZ.

The GENERAL CONDITIONS AND SPECIAL PROVISIONS of these specifications provide for the supplementation, modification and/or amendments to the STANDARD SPECIFICATIONS.

3. DEFINITIONS

Definitions shall be as stated in Section 101.2 of the UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, Maricopa Association of Governments, with the following additions:

Design Engineer: Steel & Jensen/Carter Associates/City of Scottsdale, as noted on plans.

Owner: CITY OF SCOTTSDALE

4. CONSTRUCTION PRACTICE

All construction practices and procedures shall conform to Section 107 of the Contract Works Hours and Safety Standards Act, (US Stat. 96, 40 USC 327) the latest revisions shall prevail.

5. CITY WATER DEPARTMENT (Phone: 994-7096):

The City Water Department charges to be paid by the Contractor are as follows:

Shut-down of 12" water lines	@ \$40.00 ea.
New service taps and meter	820.00 ea.

Construction water from fire hydrants:

3" water meter deposit (refundable)	\$600.00
3" water meter deposit (non-refundable)	15.00
3" meter rental per month	65.02
Cost per 1000 gal. (1st 165,000)	.49
Cost per 1000 gal. (over 165,000)	.70

6. RESPONSIBILITY FOR DAMAGE CLAIMS

The Contractor shall indemnify, defend and save harmless the City and its officers, agents, or representatives from all suits, actions, loss, damage, expense, costs, or claims of any character or any nature brought on account of any injuries or damages sustained by any person or property arising out of the work done in fulfillment of the construction of the improvement under the terms of this agreement or on account of any act or omission by the Contractor or his agents or from any claims or amounts arising or recovered under Workmen's Compensation laws or any other law, by-law, ordinance, or order or decree.

7. INSPECTION

- A) Inspectors may be stationed on the work to report to the Capital Engineering Manager as to the progress of the work, the manner in which it is being performed, and also to report whenever it appears that material furnished and work performed by the Contractor fail to fulfill the requirements of the specifications and contract. The Inspector may direct the attention of the Contractor to such failure or infringement but such inspection shall not relieve the Contractor from any obligation to furnish acceptable materials or to provide completed construction that is satisfactory in every particular.
- B) In case of any dispute arising between the Inspector and the Contractor as to material furnished or the manner of performing the work, the Inspector shall have the authority to reject materials or suspend the work until the question and issue can be referred to and decided by the Capital Engineering Manager. Inspectors are not authorized to revoke, alter, enlarge, relax, or release any requirements of these specifications. Inspectors shall in no case act as foremen or perform other duties for the Contractor or interfere with the management of the work by the Contractor.

- C) Inspection or supervision by the Capital Engineering Manager shall not be considered as direct control of the individual workman and his work. The direct control shall be solely the responsibility of the Contractor's foreman and superintendent.

8. HINDRANCES AND DELAYS

The Contractor agrees to make no claim for damages for delay in the performance of this contract occasioned by any act or omission of the City or any of its representatives, and agrees that any subject claim shall be fully compensated for by only an extension of time to complete the performance of the work as provided herein.

9. LIQUIDATED DAMAGES AND EXTENSION OF COMPLETION TIME

M.A.G. Specification 108.9 and 108.7 shall apply.

10. LOSSES AND DAMAGES

All loss or damage arising out of the nature of the work to be done or from the action of the elements, or from any unforeseen circumstances, in the prosecution of the same, or from any unusual obstructions or difficulties which may be encountered in and/or during the prosecution of the work, or from any casualty whatsoever of every description, shall be sustained and borne by the Contractor at his own cost and expense.

11. PROTECTION OF FINISHED OR PARTIALLY FINISHED WORK

The Contractor shall properly guard and protect all finished or partially finished work, and shall be responsible for the same until the entire contract is completed and accepted by the Capital Engineering Manager. Estimate of partial payment on work so completed shall not release the Contractor from such responsibility, but he shall turn over the entire work in full accordance with these specifications before final settlement shall be made.

12. CLEANUP

After all work under the contract is completed, the Contractor shall remove all loose concrete, lumber, wire, reinforcing, debris and other materials not incorporated in the work from the site of the work. Cleanup shall include the removal of all excess pointing mortar materials within pipes.

13. FINAL ACCEPTANCE

"Final Acceptance" shall mean a written final acceptance of the work by the Capital Engineering Manager. The Manager of Capital Engineering or his authorized representatives shall make the final acceptance promptly after all work under the contract has been completed in accordance with the contract documents and after final inspection.

14. RIGHTS OF WAY

The Standard Specification 107.12 shall hereby be modified to read as follows: The Contractor, at his own expense, is responsible for the acquisition of any necessary temporary easements for construction purposes which are required in addition to existing easements and/or rights of way secured by the City.

15. INTERPRETATION OF GENERAL CONDITIONS

Wherever in the General Conditions that the City is referred to it shall be understood that the City referred to is the City of Scottsdale.

16. DUST PREVENTION

The Contractor shall take whatever steps, procedures or means required to prevent abnormal dust conditions due to his construction operations in connection with this contract. The dust control measures shall be maintained at all times during construction of the project, to the satisfaction of the Engineer, in accordance with the requirements of the Maricopa County Health Department Air Pollution Control Regulations. This is not a pay item.

17. EXISTING UTILITIES TO BE RELOCATED

If any utility is relocated or rebuilt for the convenience of the Contractor, the expense shall be borne by the Contractor.

18. DAMAGED DOMESTIC WATER LINES

Any water lines damaged during construction shall be replaced at the Contractor's expense as per the requirements of the M.A.G. Specifications.

19. DAMAGED SEWER LINES

Any sanitary sewer lines damaged during construction shall be replaced by a Contractor properly licensed to install sanitary sewers. All work shall be done as per standard M.A.G. Specifications

20. EXISTING TRAFFIC AND STREET SIGNS AND TRAFFIC SIGNAL EQUIPMENT

The Contractor shall use due care when excavating at or near intersections where traffic signal underground conduit is located. The Contractor shall notify the Signal Engineer of the Traffic Engineering Division 24 hours in advance of any work at such intersections. The Contractor shall be responsible for the installation and maintenance of temporary overhead traffic signal cable as specified by the Signal Engineer when underground conduit is to be severed by excavations at the intersection. At no charge, the Signal Engineer shall have all traffic signal underground conduit located, and he shall provide the necessary City technicians to assist the Contractor in the transfer of the wiring to the temporary cables installed by the Contractor. The Contractor shall provide an off-duty uniformed Police Officer to direct traffic while the traffic signal is turned off and the wiring is transferred. The Contractor shall be responsible as specified by the Signal Engineer for the repair and restoration of all traffic signal overhead and underground items that have been damaged or modified.

21. DUMPING AND DISPOSAL OF WASTE

The Contractor is responsible for the cost to dispose of all waste products including excess earth material which will not be incorporated into the work under this contract. The waste product referred to herein shall become the property of the Contractor.

22. EQUAL EMPLOYMENT OPPORTUNITY

During the performance of this contract the Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, or national origin.

23. SUPERVISION BY CONTRACTOR

The CONTRACTOR will supervise and direct the WORK. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The CONTRACTOR will employ and maintain on the WORK a qualified supervisor or superintendent who shall have been designated in writing by the CONTRACTOR as the CONTRACTOR'S representative at the site. The supervisor shall have full authority to act on behalf of the CONTRACTOR and all communications given to the supervisor shall be as binding as if given to the CONTRACTOR. The Supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the work.

24. CHANGES IN THE WORK

The Capital Engineering Manager may at any time, as the need arises, order changes within the scope of the WORK without invalidating the AGREEMENT. If such changes increase or decrease the amount due under the CONTRACT DOCUMENTS, or in the time required for performance of the WORK, an equitable adjustment shall be authorized by CHANGE ORDER.

The ENGINEER, also, may at any time, by issuing a FIELD ORDER, make changes in the details of the WORK. The CONTRACTOR shall proceed with the performance of any changes in the WORK so ordered by the ENGINEER unless the CONTRACTOR believes that such FIELD ORDER entitles him to a change in CONTRACT PRICE or TIME, or both, in which event he shall give the ENGINEER WRITTEN NOTICE thereof within three (3) days after the receipt of the ordered change, and the CONTRACTOR shall not execute such changes pending the receipt of an executed CHANGE ORDER or further instruction from the OWNER.

25. CHANGES IN CONTRACT PRICE

The CONTRACT PRICE may be changed only by a CHANGE ORDER. The value of any work covered by a CHANGE ORDER or of any claim for increase or decrease in the CONTRACT PRICE shall be determined by one or more of the following methods in the order of precedence listed below:

- a) Unit prices previously approved.
- b) An agreed lump sum.

25. CHANGES IN CONTRACT PRICE continued

An agreed lump sum price will be determined by issuance of a bulletin requesting a cost estimate for additional or deleted work for the project. The Contractor hereby agrees to execute and return the bulletin to the Owner seven (7) working days after the date of the bulletin. Non-compliance will result in the establishment of the "lump sum" cost solely by the Owner.

26. CONSTRUCTION STAKES

Survey stakes and marks required for the completion of the construction shown on the plans and described in these specifications will be furnished by Steele and Jensen Engineering.

Construction stakes will be set one time only at no cost to the Contractor. The Contractor shall be held responsible for the preservation of all stakes and marks, and if, in the opinion of the Engineer, any of the survey stakes or marks have been carelessly or willfully destroyed or disturbed, the cost to the Owner for replacing them shall be charged to the Contractor and shall be deducted from the payment for the work.

27. TESTING OF MATERIALS

All tests shall be made and results certified by an independent laboratory approved by the Capital Engineering Manager. The Contractor shall pay for all tests required to certify the suitability of materials. The City of Scottsdale will arrange and pay for required construction tests on a one time basis. Additional tests or retests required as a result of initial test rejections or failures, will be paid for by the Contractor.

Rejected materials shall be immediately removed from the site and shall not be used in any form for any other part of the work.

28. METHOD OF MEASUREMENT AND PAYMENT FOR PAY ITEMS

Measurements and payment for all bid items in the PROPOSAL FORM shall be as described in the STANDARD SPECIFICATIONS, subject to the following:

- a) Payment for each item shall constitute payment in full for the furnishing of all excavation, back filling, materials, equipment, appurtenances, labor, plant and tools necessary to provide a complete finished, and serviceable project, as shown by the Plans and described in these Specifications. Each item shall be complete with all necessary connections, testing, and related work accomplished to provide for the satisfactory use and/or operation of the item.
- b) No additional payments will be made for incidental work related to any items unless specifically noted and called for in the Proposal. Payment will be made at the unit price or lump sum price bid in the Proposal.
- c) Measurement of the completed work will be made in place, with no allowance for waste, and as may be more particularly described in the description of the various items of work. Ten percent (10%) of the amount of each progress pay estimate shall be retained or bonds shall be posted in accordance with the H.B. 2188 until final acceptance of all work and approval of the final invoice by the City Inspector.

29. APPROVED EQUALS AND ADDITIONAL ENGINEERING COSTS

Plans and specifications may contain references to equipment and/or materials (patented or unpatented) or "approved equal(s)". Such references shall be regarded as establishing a standard of equality, finish, appearance, performance or as indicating a selection or design based upon compatibility with existing equipment, materials or details of construction inherent to the project design. Such references shall not be construed as limiting the selection to a specified item, source or design detail. The use of an alternate or substitute, item or source as an approved equal will be permitted, subject to the following procedure:

- 1) No consideration will be given a request for substitution prior to award of contract.
- 2) After award and to permit consideration and approval without delaying the work, the Contractor shall submit a written request for substitution to the Capital Engineering Manager. The request shall include all information necessary for proof of equality and suitability for substitution including benefits, engineering design and data (calculations) and/or detailed plan modifications which may be required by the substitution. The Contractor shall submit additional information and/or samples when required.
- 3) The Capital Engineering Manager or his representative, will evaluate the information submitted, perform tests when necessary and make comparisons.
- 4) The Capital Engineering Manager will then make the final decision and notify the Contractor in writing as to the acceptability of the proposed substitution.
- 5) In the event the Contractor, his suppliers or subcontractors provide equipment or materials different than that called for in the plans or specifications which result in additional engineering design, calculations or plan modifications, the cost of such work shall be paid for by the Contractor.

SPECIAL PROVISIONSDESCRIPTION OF WORK

Work sites in this project have been assigned a letter to identify the locations as follows:

Along 71st Street/ (A) at Mountain View, (B) at Gold Dust, (C) at Cochise

Along Scottsdale Road/ (D) at Cactus, (E) at Larkspur, (F) at Sweetwater, (G) at Sutton, (H) 660' north of Sutton, (I) at Thunderbird.

1. Concrete Box Culverts: ADOT standard culverts and modified wingwalls are to be constructed at the following locations:

- B. Three barrel 8'x5'x94' box
- C. Two barrel 8'x6'x70' box
- F. Single barrel 10'x9'x 10' box
- G. Four barrel 8'x3'x55' box
- I Three barrel 6'x4'x232' box

2. Storm Drain Pipes with Inlet/Outlet Structures:

In area NE of D. 1200 ± LF 60" pipe & 800 ± LF 48" pipe
In area E to F. 1500 ± LF 90" pipe

3. Excavation of Channels and Detention Basin:

From A to B, 60' wide x 6' deep channel
In area NE of D. Remove 157,000 ± CY for detention basin
In area at H, Remove 577 ± CY for basin
From H to I, 50' wide x 6' deep channel

4. Concrete Lining or Gabion Bank Protection:

Required at the inlets and outlets to culverts, pipes and channels

5. Curb, Gutter, Sidewalk, Waterlines and Pavement:

Replacement of these existing improvements are required at locations B, C, E, F, G & I.

6. Relocations of Traffic Signals at Locations F & I:

ARRANGEMENT OF SPECIAL PROVISION SECTIONS: The project has been divided into separate bid items. The decimal part of the Special Provisions subsection numbers listed below refers to a corresponding bid item number in the proposal. These pages attempt to provide sufficient description of details to present a clear understanding of all job requirements. The nine sections in these Special Provisions are numbered corresponding to bid items.

1. Concrete Culverts, Walls and Aprons
2. Protection for Banks and Bottom of Channels and Basins
3. Storm Drain Catch Basin, Pipes and Manholes
4. Earthwork
5. Street Improvements and Related Surface Work
6. Water and Sewer Relocations
7. Miscellaneous Work and Traffic Signals
8. Alternate Work
9. Pipe Materials

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916 (F5502)
 CONTRACT NO. _____
 CHANGE ORDER NO. 12 (FINAL)
 TO: (Contractor)

TITLE: PVSP Drainage System
 CONTRACT DATED: 7/2/85
 PAGE 1 OF 2 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:
 QUANTITY ADJUSTMENTS AS FOLLOWS:

ITEM	DESCRIPTION	UNIT PRICE	QTY. PD. TO DATE	FINAL QTY.	QTY. ADJ.	TOTAL DUE
2.03	Gunite Tie Down @ Cothise	20	373	494	121	2,420.00
2.07	Gabions Bust in quantities @ Airport	250	886	1316	430	21,500.00
2.09	Buried Rock- added at airport and behind	15	1225	1594	369	5,535.00
4.03	Struct. Excav. and backfill	35	4164	4349	185	6,475.00
5.01	Sawcut	10	1075	1112	37	370.00
5.02	Subgrade Prep.	3	6200	5879	(321)	(963.00)
5.03	4" ABC	2.50	1599	1772	173	432.50
5.04	12" ABC	3	706	618	(88)	(264.00)
5.05	3" AC B1	5	706	618	(88)	(440.00)
* 5.05	3" AC BL	(.20)	-	618	-	(123.60)
5.06	1" AC D 1/2	2.50	706	618	(88)	(220.00)

FLOOD CONTROL DISTRICT
 RECEIVED

JUN 10 '85

CH ENG	HYDRO
ASST	LMgt
ADMIN	SUSP
C & O	FILE
REMARKS	DESTROY

REMARKS: BREAK

The Original Contract Sum Was.....\$ 1,777,972.25
 Net Change by Previous Change Orders.....\$ 97,700.00
 The Contract Sum Prior to This Change Order Was.....\$ 1,875,672.25
 The Contract Sum Will be (increased) by This Change Order.....\$ 59,258.49
 The New Contract Sum, Including This Change Order Will Be.....\$ 1,934,930.74

The contract time Will Be (unchanged) By.....
 The date of completion as of This Date of This Change Order
 Therefore is..... Unchanged

ACCEPTED BY: C. S. Construction
 22023 N. 20th Ave.
 Phoenix, AZ 85027

RECOMMENDED BY: Ed Villa 5-13-85
 FIELD ENGINEERING MGR./Date

APPROVED BY: Rich Schauer 5-21-85
 PUBLIC WORKS ADMIN./Date

PROJECT COORDINATOR/Date: Anita Grove 5/13/85

COMM. DEV. DEPT./Date: [Signature]

CAPITAL ENGINEERING MGR./Date: Bill L. Lumbkelle 5/13/85

CITY MANAGER/Date: [Signature]

BY: [Signature] 5/6/85
 TRANSPORTATION DIR./Date

OTHER AGENCIES

AS TO FUND AVAILABILITY:
 N. Smith 5/21/85
 FINANCE DIRECTOR/Date

FOR: _____
 (Required if over \$500.00)



PROJECT NO: 08916
 CONTRACT FOR: _____
 CHANGE ORDER: 12 (FINAL)
 TO: (Cont.)

TITLE: PVSP Drainage System
 CONTRACT DATED: 7/2/85
 PAGE 2 OF 2 PAGES

YOU ARE TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

ITEM	DESCRIPTION	UNIT PRICE	QTY. PD. TO DATE	FINAL QTY.	QTY. ADJ.	TOTAL DUE
5.07	3" AC, C 3/4 on 8" ABC	11	2948	3181	233	2,563.00
*5.07	3" AC, C 3/4 on 8" ABC	(.20)	-	3181	-	(636.20)
*5.08	2" AC, C 3/4 on 4" ABC	(.20)	-	308	-	(61.60)
5.10	Thickened Edge	5	875	1221	346	1,730.00
5.13	6" V.C. & G	7	1248	1321	73	511.00
5.14	Valley Gutter	3	2650	3076	426	1,278.00
966 LEDF 5.15	Sidewalk	2	3096	4830	1734	3,468.00
5.16	Bikepath	2	5268	5440	172	344.00
7.02	Remove C & G	2	1166	1329	163	326.00
7.14	Handrail	30	745	891	146	4,380.00
5.19	Sawcut	5	588	746	158	790.00
Force Account Work (See Attached)						10,334.39
Brace APS Pole						750.00
Reinstall Signal Pole at Sweetwater						300.00
Restaking (See Attached Memo)						(1,540.00)
						\$ 59,258.49

Reduction of \$.20 on unit price for deletion of prime coat.

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE May 6, 1985 PROJECT TITLE PVSP Drainage System

PROJECT NO. 08916 (F5502) PROPOSED C/O NO. 12 (Final)

BRIEF DESCRIPTION OF CHANGE ORDER:

Final measured quantity adjustments to Contract. Miscellaneous force account work and deduction of restaking charges.

EFFECT ON CONTRACTOR COST: \$ 59,258.49 increase TIME: -0-

JUSTIFICATION:

Adjustment to guniting surface and tie down due to extension of channel lining to North and South of Cochise box culvert different from C/O #3. Buried rock quantity increase at Fire Station channel and junction of Berneil ditch. Structural excavation increase at Golddust box culvert per Surveyors' cut sheets. Sidewalk quantity increase South of Fire Station to make S/W continuous. Force Account work incurred for: removal of curb & gutter at SE corner of Thunderbird and Scottsdale; placement of 2" AC, D $\frac{1}{2}$ along East side of Scottsdale thru Larkspur; additional decomposed granite and gem guard at 7th Day Adventist channel; and relocation of 2' service conduit at Sweetwater. Deduction of restaking charges due to Contractors fault (see attached memo).

ALTERNATIVES:

SUBMITTED BY: Annette Grove

MINUTES OF MEETING REGARDING
PVSP DRAINAGE SYSTEM
restaking charges
Project No. 8916

April 12, 1985

THE FOLLOWING WERE IN ATTENDANCE:

Annette Grove, Capital Engineering
John Smetana, Field Engineering
Bill Anthony, Field Engineering
Ron Bradley, Field Engineering
Lynn Jensen, Steele & Jensen
Mike Borden, C.S. Construction

Per letters of agreement dated December 11, 1984, restake charges will be paid to the Surveyor by the City. Agreed upon charges due to Contractor's error will be deducted from Contractor's final pay request. The attached billings were agreed to as follows:

<u>DATE</u>	<u>LOCATION</u>	<u>HOURS</u>	<u>TO BE PAID BY</u>
9/4/84	Curb at Cochise	1	Contractor
9/6/84	96" Pipe	2	City
9/14/84	96" Pipe	2	City
9/14/84	Sutton Box	1	City
9/17/84	ABC on Golddust & Cochise	1	City
10/8/84	96" Pipe	3.5	City
10/9/84	West line of Cactus Basin	2	Contractor
10/19/84	West line of Cactus Basin	2	Contractor
11/1/84	Channel at Berneil Ditch	3	City
11/1/84	South line of Cactus Basin	2	Contractor
11/10/84	Concrete Channel South of Golddust	2	Contractor
11/14/84	Concrete NE Corner Cactus Basin	4	City
11/16/84	Channel at Fire Station	2	City
11/27/84	Catch Basin North of Larkspur	1	Contractor
11/28/84	Curb at Larkspur	4	City
1/3/85	Curb at Thunderbird	1	Contractor
1/3/85	Fill area South of Fire Station	3	City
1/15/85	Box at Thunderbird	1	Surveyor
1/28/85	SE Corner of Thunderbird	3	City
1/31/85	Channel South of Thunder- bird	3	Contractor
2/19/85	Portion of Cactus Basin	8	Contractor

In summary, the City will pay for a total of 50.5 hours X \$70/hour = \$3,535.00.

The Contractors Final Pay Request will be deducted for 22 hours X \$70/hour = \$1,540.00.

AG/js

RECAP OF FORCE ACCOUNT WORK

I. REMOVE & HAUL OFF CONCRETE APRON AND CURB RETURN AT THE
SOUTH EAST CORNER OF THUNDERBIRD AND SCOTTSDALE ROAD.

1-23-85 LABOR:

1 - Foreman	4 hrs. @ 18.00 =	72.00
1 - Operator	5 hrs. @ 13.00 =	<u>65.00</u>
		\$ 137.00

EQUIPMENT:

1 - 3/4 TN Pickup	4 hrs. @ 8.85 =	35.40
1 - 580 C Case Tractor	5 hrs. @ 19.35 =	96.75
1 - Demo Hammer	5 hrs. @ 31.50 =	157.50
1 - Diesel Compressor Rotary Vane 175 CFM	5 hrs. @ 13.70 =	<u>68.50</u>
		\$ 358.15

1-23-85 LABOR:

1 - Foreman	3.5 hrs. @ 18.00 =	63.00
1 - Operator	3.5 hrs. @ 13.00 =	45.50
1 - Teamster	4.5 hrs. @ 11.00 =	49.50
3 - Laborers	3.5 hrs. @ 8.00 =	<u>84.00</u>
		\$ 242.00

EQUIPMENT:

1 - 3/4 TN Pickup	3.5 hrs. @ 8.85 =	30.98
1 - 580 C Case Tractor	3.5 hrs. @ 19.35 =	67.73
1 - Diesel Compressor 175 CFM	3.5 hrs. @ 13.70 =	47.95
1 - Semi End Dump (12 CY)	4.5 hrs. @ 60.70 =	<u>273.15</u>
		\$ 419.81

RECAP

A. Labor	=	379.00
B. Labor Ins. & Taxes 23%	=	87.17
C. Equipment	=	777.96
D. Subcontractor O.P. 15%	=	
(Item A & B)	=	<u>69.93</u>

Subtotal		1,314.06
Bond Expense 1.2 %	=	18.00
Sales Tax 6%	=	59.50
Contractor O.P. 10 %	=	<u>139.00</u>
TOTAL		\$ 1,530.56

II.

PLACE 2" OF D-1/2" ASPHALT
SOUTH OF LARKSPUR ON THE
EAST SIDE OF SCOTTSDALE ROAD

2-20-85 LABOR:

1 - Foreman	6.5 hrs. @ 18.00 =	117.00
1 - Operator	6.5 hrs. @ 13.00 =	84.50
3 - Laborers	4.0 hrs. @ 8.00 =	96.00
2 - Laborers	2.5 hrs. @ 8.00 =	40.00
1 - Screedman	2.5 hrs. @ 12.00 =	30.00
2 - Rackers	2.5 hrs. @ 10.00 =	<u>50.00</u>

Equipment:

		\$ 417.50
1 - 3/4 TN Pickup	6.5 hrs. @ 8.85 =	57.53
1 - 480 C Loader	4.0 hrs. @ 15.80 =	63.20
1 - Roller 3-5 TN	2.5 hrs. @ 21.65 =	54.13
1 - Paver PF-35	2.5 hrs. @ 82.45 =	206.13
1 - Plate Tamp (20" x 28")	2.5 hrs. @ 2.45 =	<u>6.13</u>

\$ 387.12

RECAP

A. Labor	=	417.50
B. Labor Ins. & Taxes 23%	=	96.03
C. Equipment	=	387.12
D. Materials		
45 TN @ 26.05	=	1172.25
E. Subcontractor O.P. 15%		
(Item A,B,D)	=	<u>252.87</u>
Subtotal		2,325.77
Bond Expense 1.2%		30.00
Sales Tax 6%		96.00
Contractor O.P. 10%		<u>13.00</u>
Total	\$	<u>2,464.77</u>

III.

PLACE 2" D-1/2" ASPHALT ON NORTH
OF LARKSPUR ON EAST SIDE OF
SCOTTSDALE ROAD

3-6-85 LABOR:

1 - Foreman	4 hrs. @ 20.00 =	80.00
1 - Teamster	2 hrs. @ 13.00 =	26.00
3 - Laborers	2 hrs. @ 8.00 =	<u>48.00</u>

EQUIPMENT:

1 - 3/4 TN Pickup	4 hrs. @ 8.85 =	35.40
1 - Roller Rented (10 hp)	8 hrs. @ 6.90 =	55.20
1 - Semi End Dump (12 CY)	2 hrs. @ 60.70 =	<u>121.40</u>

MATERIALS:

Asphalt D-1/2"	6 TNS @ 23.30 =	139.80
----------------	-----------------	--------

RECAP

A. Labor	=	154.00
B. Labor Ins. & Taxes 23%	=	35.42
C. Equipment	=	212.00
D. Materials	=	139.80
E. Subcontractor O.P. 15%		
(Item A,B,D)	=	<u>49.38</u>
Subtotal	\$	590.60
Bond Expense 1.2%		8.00
Sales Tax 6%		27.00
Contractor O.P. 10%		63.00
Total	\$	<u>688.60</u>

85

LABOR:

1 - Teamster
1 - Laborer

1.5 hrs. @ 14.47 = 21.71
1.5 hrs. @ 8.00 = 12.00
\$ 33.71

EQUIPMENT:

1 - 950 B Loader

1.5 hrs. @ 68.80 = 103.20

RECAP

A. Labor = 1,030.15
B. Labor Ins. & Taxes 23% = 236.94
C. Equipment = 3,060.73
D. Materials = 542.59
\$ 4,870.41
Contractors O.P. 15% 730.56
\$ 5,600.97
1. Bond Expense 1.2% 71.00
2. Sales Tax 6% 231.00
Contractors O.P. 10%
(Items 1,2) 30.00
Total \$ 5,932.97

SEE NOTE "A"

V.

INSTALL GRANITE & GEMGUARD IN DRAINAGE
DITCH FROM STA 43+20 TO STA 46+00 ON
EAST SIDE OF SCOTTSDALE ROAD (14,000 SF)

3-20,22-85

LABOR:

1 - Foreman
5 - Laborers

12 hrs. @ 15.00 = 180.00
12 hrs. @ 8.00 = 480.00
660.00

EQUIPMENT:

1 - 3/4 TN Pickup
1 - Tractor

12 hrs. @ 8.85 = 106.20
12 hrs. @ 19.35 = 232.20
338.40

MATERIALS:

3/4 " Screened Granite	120 TN @ 10.00	=	1,200.00
Aggregate Bond	800 gals @ 3.00	=	<u>2,400.00</u>
			\$ 3,600.00

RECAP

A. Labor	=	660.00
B. Equipment	=	338.40
C. Materials	=	<u>3,600.00</u>
		4,598.40
Contractors O.P. 15%	=	----
Bond Expense 1.2 %	=	58.00
Sales Taxes 6%	=	<u>189.00</u>
Total	\$	4,845.40

VI. RELOCATE 2" SERVICE CONDUIT AS SHOWN ON SHEET 19 OF 31
UNDER EXISTING BLOCK WALL TO AVOID CONFLICT
WITH NEW WING WALL.

9-7-84 LABOR:

1 - Operator	8 hrs. @ 17.61	=	140.88
1 - Laborer	8 hrs. @ 15.15	=	<u>121.20</u>
			262.08

EQUIPMENT:

1 - 3/4 TN Pickup	8 hrs. @ 8.85	=	70.80
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MATERIALS:

2" Conduit & Wire	70 LF @ 3.10	=	217.00
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RECAP

A. Labor = 262.08
B. Labor Ins. & Taxes 23% = 60.28
C. Equipment = 70.80
D. Materials = 217.00
E. Subcontractor O.P. 15%

(Items A,B,D) = 80.90

Total \$ 691.06

Bond Expense 1.2% 10.00

Sales Tax 6% 31.00

Contractor O.P. 10% 73.00

Total \$ 805.06

TOTAL
10,334.39

GRAND TOTAL:

Item # I 1,530.56
II 2,464.77
III 688.60
IV 5,932.97
V 4,845.40
VI 805.06

Total \$ 16,267.36

NOTE "A"

Item # IV BREAK OUT OF COST FOR EACH AREA OF WORK

A. Inlet to box on Shea Blvd between Sundown and Country Club	=	2,183.00
B. Inlet to Box on Shea Blvd at 82nd Place	=	1,375.00
C. Inlet to Box on Scottsdale Rd. at Mc Cormick Parkway	=	2,375.00

NOTE "B"

Item # 1 Additional Sawcut on Cochise for Survey
Error. 37.00 LF @ 10.00 = 370.00

(This cost is included as a part
of our final bill)

FROM YOUR LOCAL SAFEGUARD DISTRIBUTOR, IF UN
 .CALL 1800-333-2323. IN PA. CALL 800-394-4444 COLLECT.

4J2
 256
 SWG
 1
 11
 26
 84

DATE	INV. NO. OR REF.	JOB NO.	ACCOUNTS PAYABLE	MATERIAL	SUB- CONTRACT	DISC. OR ACCT.	RETEN- TION	ACCOUNTS PAYABLE BALANCE	CHECK AMOUNT	NAME
DATE	INVOICE NO.		AMOUNT	DATE	INVOICE NO.		AMOUNT	DATE	INVOICE NO.	AMOUNT

C S CONSTRUCTION, INC.
 PEORIA, ARIZONA 85345

91-2
 1221

4944



C S CONSTRUCTION, INC.
 8290 N. 75TH AVE.
 PEORIA, ARIZONA 85345
 PHONE: (602) 979-2088

JANUARY 23, 19 85

PAY SEVEN HUNDRED FIFTY AND 00/100----- DOLLARS \$ 750.00

TO
 THE ORDER
 OF

A. P. S.

P. O. BOX 21666

PHOENIX, AZ. 85036

VALLEY NATIONAL BANK of Arizona
 30TH AVE. - PEORIA OFFICE (154) PHOENIX, AZ 85029

C S CONSTRUCTION, INC.

Michael Bond

⑈004944⑈ ⑆122100024⑆

220 ⑆00679⑆⑈

ARIZONA PUBLIC SERVICE COMPANY
P. O. BOX 21868 • PHOENIX, ARIZONA 85036

Electric Extension Order

01 22 759993 2

- TYPE OF ORDER
- NEW INSTALLATION
 - RELOCATION
 - TEMPORARY ELECTRIC

- DESCRIPTION:
- E ELECTRIC SERVICE
 - ET ELECTRIC TEMPORARY
 - ERL ELECTRIC RELOCATE
 - EX ELECTRIC EXTENSION
 - EUG ELECTRIC U/G

85^{DATE} 01 15 810
YR MO DAY

REMARKS
TEMP. BRACE 69

DESCRIPTION, HOUSE NO., & DIRECTION, SUB-DIV. STREET NAME
E.T.A.T. - BIRD E. SCOTT DALE

KU POLE

LAST NAME FIRST INITIAL
CONCRETE STRUCTURES

NON-REFUNDABLE CUSTOMER CONTRIBUTION 750 -

DBA/CO
ATTN MIKE BORDEN

REFUNDABLE CUSTOMER ADVANCE -0-

STREET ADDRESS
8210 N. 75TH AVE SU A

AMOUNT TAX EXEMPT 750 -

CITY STATE
PEORIA AZ

PLEASE PAY THIS AMOUNT 750 -

ZIP AGREEMENT NO. LOT NO.
85345

CASHIER TO MAKE CASH STUB

AREA OFFICE PREPARED BY
METRO STEVE GOODMAN

5 Town Dist. 010

DISTRIBUTION		INSTALLATION	
TEMPORARY		INSTALLATION	
Electric Temp. Installation	<input checked="" type="checkbox"/> 192-01	Refundable service over \$25	<input type="checkbox"/> 9252-1
Use W.A. No. for contribution in aid of construction: <input type="checkbox"/>			

The customer agrees to pay for the service herein described in accordance with the Company's Conditions Governing Extensions of Electrical Services as approved by the Arizona Corporation Commission.

Mike Borden
CUSTOMER SIGNATURE

PLEASE RETURN THIS COPY WITH PAYMENT



CONCRETE STRUCTURES

8290 N. 75th Ave., Suite A
Peoria, Arizona 85345

Phone: 979-2088

City of Scottsdale
3939 Civic Center Plaza
Scottsdale Az. 85251

September 26, 1984

Attn: Annette Grove-Capital Engineering
Re; P.V.S.P. Drainage System

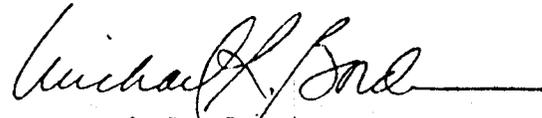
Gentlemen:

As per your request, the following reduction in unit price shall apply for the deletion of Prime Coat.

Item # 5.05	Deduct	.20/sy
Item # 5.07	Deduct	.20/sy
Item # 5.08	Deduct	.20/sy

Your prompt consideration to this matter will be appreciated.

Sincerely yours,
CS Construction, Inc.


Michael R. Borden
Vice-President

RECEIVED

MRB/cm

SEP 28 1984

CAPITAL IMPROVEMENTS

BY _____

9/28/84

To Bill Anthony for
next Charge Order

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916 (F5502)
 CONTRACT NO. _____
 CHANGE ORDER NO. 10
 TO: (Contractor _____)

TITLE: PVSP Drainage System
 CONTRACT DATED: 7/2/84
 PAGE 1 OF 2 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

1. Saw cut 1-foot notch in precast concrete curb and grade 'V' ditch 30 feet to match existing ditch at Sta 10+80 on Gold Dust. See attached drawing.

Omission from original drawings \$ 500.00

2. Install drop connection at Sta 50+64 for new sewer tap, per City of Scottsdale Water Resources' Engineering request.

\$ 1,100.00

The Original Contract Sum Was.....	\$ 1,777,972.25
Net Change by Previous Change Orders.....	\$ 90,850.00
The Contract Sum Prior to This Change Order Was.....	\$ 1,868,822.25
The Contract Sum Will be (<i>increased</i>) by This Change Order.....	\$ 1,600.00
The New Contract Sum, Including This Change Order Will Be.....	\$ 1,870,422.25

The Contract time Will Be (Unchanged) By..... -0-
 The Date of completion as of This Date of This Change Order
 Therefore is..... 18 March 1985

ACCEPTED BY:
 C. S. Construction
 22023 N. 20th Ave.
 Phoenix, AZ 85027

RECOMMENDED BY
 CITY OF SCOTTSDALE
Ed Villa 3-19-85
 FIELD ENGINEERING MGR./Date
Annette Greene 3/25/85
 PROJECT COORDINATOR/Date
Bill Lambrecht 3-25-85
 CAPITAL ENGINEERING MGR/Date

APPROVED BY
 CITY OF SCOTTSDALE
Dick Schaner 4-4-85
 PUBLIC WORKS ADMIN./Date
JGD 4/5/85
 COMM. DEV. DEPT./Date
JGD 4/5/85
 CITY MANAGER/Date

BY: *Michael Bond*
 DATE: 3-16-85

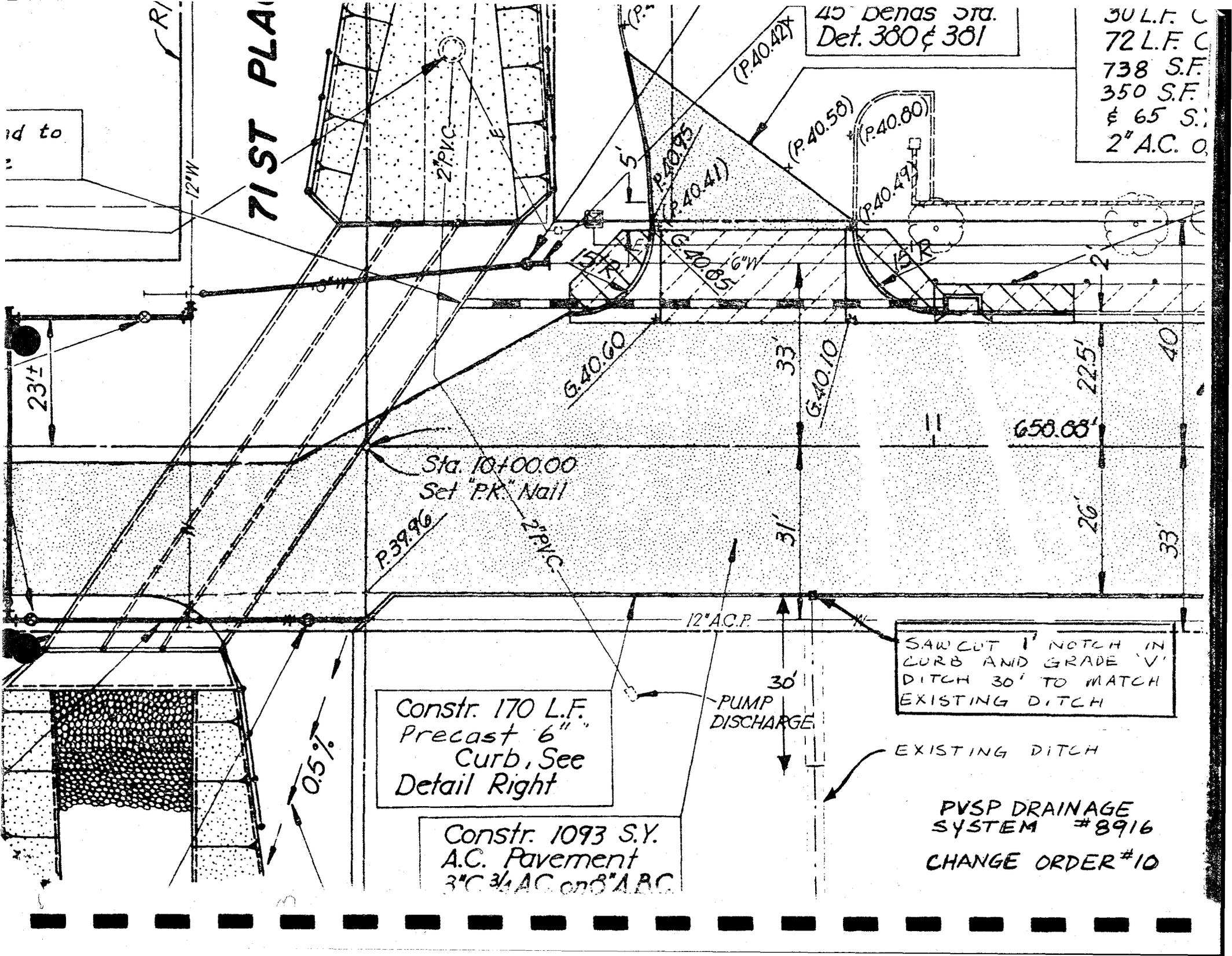
R. Garrison 3/26/85
 TRANSPORTATION DIR./Date
 AS TO FUND AVAILABILITY:

OTHER AGENCIES

W. Swick 3/26/85
 FINANCE DIRECTOR/date
 (Required if over \$500.00)

FOR: _____

REN



45 Dens Sta.
Det. 380 & 381

30 L.F. C
72 L.F. C
738 S.F.
350 S.F.
& 65 S.
2" A.C. O

71ST PLACE

12" W

23' ±

2" P.K.C.

(P. 40.85)

(P. 40.42)

(P. 40.58)

(P. 40.80)

(P. 40.75)
(P. 40.41)

(P. 40.49)

15' R

15' R

15' R

G. 40.60

G. 40.10

G. 50.08

Sta. 10+00.00
Set "P.K." Nail

P. 39.96

2" P.K.C.

12" A.C.P.

31'

30'

PUMP DISCHARGE

SAWCUT 1" NOTCH IN CURB AND GRADE 'V' DITCH 30' TO MATCH EXISTING DITCH

EXISTING DITCH

Constr. 170 L.F. Precast 6" Curb, See Detail Right

Constr. 1093 S.Y. A.C. Pavement 3" C 3/4" A.C. on 8" A.B.C.

PVSP DRAINAGE SYSTEM #8916 CHANGE ORDER #10

0.5%

22.5'

26'

33'

40'

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 3/18/85 PROJECT TITLE PVSP DRAINAGE SYSTEM

PROJECT NO. 08916 (f5502) PROPOSED C/O NO. 10

BRIEF DESCRIPTION OF CHANGE ORDER:

Provide drainage outlet and swale to drain ponding area on Golddust and installation of sewer drop connecting at Fire Station, per Water Resource's Engineering request.

EFFECT ON CONTRACTOR COST: \$1,600.00

TIME: 0

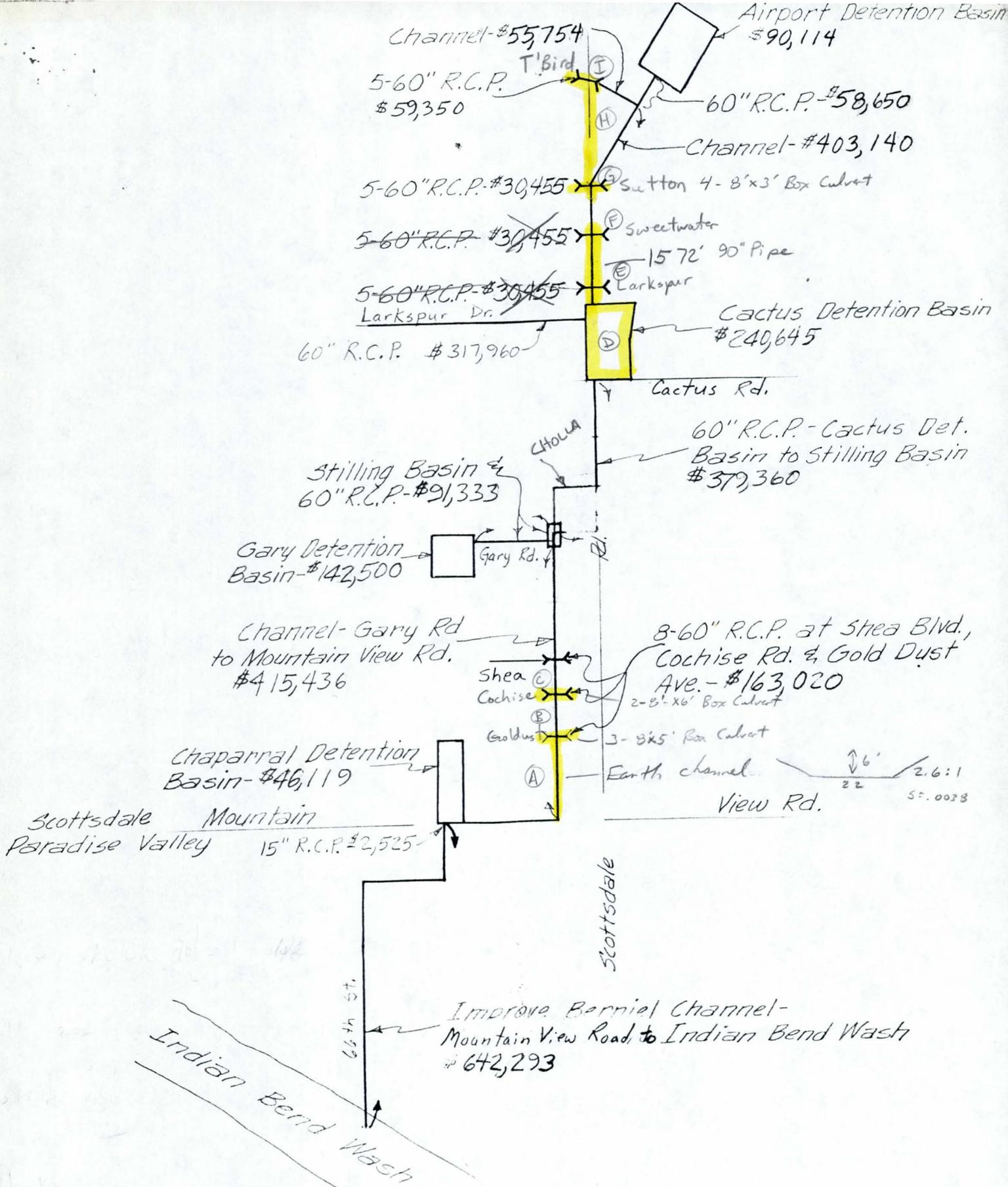
JUSTIFICATION:

The concrete curb notch and drainage swale will drain a ponding area on Golddust to an existing drainage ditch. The drop connection at the new sewer tap was required by the City's Sewer Engineering Department.

ALTERNATIVES:

Do not provide a drainage outlet from Golddust which will be a continued maintenance problem. The drop connection was not shown on the approved plans, but is a M.A.G. requirement.

SUBMITTED BY: *Amelia Grove*



Channel-#55,754

Airport Detention Basin \$90,114

5-60" R.C.P. \$59,350
T Bird

60" R.C.P. #58,650

Channel-#403,140

5-60" R.C.P. #30,455 Sutton 4-8'x3' Box Culvert

5-60" R.C.P. #30,455 Sweetwater

1572' 90" Pipe

5-60" R.C.P. #30,455 Larkspur

60" R.C.P. #317,960

Cactus Detention Basin #240,645

Cactus Rd.

60" R.C.P. - Cactus Det. Basin to Stilling Basin #379,360

Stilling Basin \$91,333

Cholla

Gary Detention Basin \$142,500

Gary Rd.

Channel - Gary Rd to Mountain View Rd. #415,436

8-60" R.C.P. at Shea Blvd, Cochise Rd. & Gold Dust Ave. - \$163,020

Shea

Cochise

2-8'x6' Box Culvert

Gold Dust

3-9x5' Box Culvert

Chaparral Detention Basin \$46,119

Earth channel

View Rd.

6' / 2.6:1 / 22 / 5% .0038

Scottsdale Mountain Paradise Valley 15" R.C.P. #2,525

Scottsdale

Improve Berniel Channel - Mountain View Road to Indian Bend Wash #642,293

66th St.

Indian Bend Wash

PVSP PROJECT "C"

3199664

1.0 Concrete Culverts, Walls and Aprons: In this section are the bid items for culvert barrels, headwalls, wingwalls, aprons, and attached concrete parts. Steel attachments such as handrails or grates are in Section 7. Structural excavation is a separate bid item because of the extra care expected to exactly shape the outer edges and bottom of the cut to conform to the design dimensions of box, walls, and aprons. The preparation of the walls and bottom of the cavity excavated for each culvert prior to placement of rebars and forms is included in the CY structural concrete bid price. The bid price also includes rebars, forms, curing, stripping forms, and structural backfill. For calculation of any fill quantity outside the structural backfill will start 1' from the structure surface. The outside culvert barrel wall may be poured against a vertical cut in the earth. The surface of the vertical cut must provide a smooth and regular surface in order to be used in lieu of a form for the outside walls of the culvert. The outside surface of wing walls may also be poured against a smooth vertical cut. The City Inspector will approve of all vertical cut surfaces to be used in place of forms. Wall thickness shall be increased 1" where concrete is poured against a vertical cut. Any cut surface not approved will be re-excavated sufficiently to allow forms to be built and used to shape the concrete walls properly as shown on the plans. The CY quantities for "culvert barrels" are only for floor, roof and walls. The CY quantities for headwalls and wings include cut-off walls and footings. The CY quantities for aprons include slots and cut-off wall if called for in the standard details. The CY quantity for the apron of the outlet structure for the 90" pipe at location D includes the 5' high vertical fins designed to act as energy dissipators. The installation of grate support post mounting sleeves have to be set in the 90" pipe outlet apron at time of concrete pour. The Contractor may submit design drawings for slope footings in place of the step footings shown for the inlet wingwalls at G. The culverts at B, C, F, & G can be built in one continuous process from end to end because the streets over these culverts will be closed for 2-3 weeks during construction. The culvert at I will be built in three sections as follows and a traffic control plan will be mailed to all bidders on May 16, 1984.

Bid 1.19 The first section of this culvert will be 32 LF long in the center of the Scottsdale - Thunderbird intersection. The location will be measured parallel to the culvert centerline beginning and ending 16' either side of the brass cap in the center of the intersection. The ADOT standard procedure to bend horizontal bars down at the wall ends and chip out the bends after the forms are removed so the bars can be straightened later to tie into the adjoining horizontal bars when the next section is poured will be used for this work. The second section will be the east half of the box and the third will be the west half. The detour diagrams in the plans show traffic routing for each stage of construction.

Bid 1.15 The APS pole at the south end of the culvert at G is to be braced by APS prior to construction of the barrels. The contractor will arrange to pay APS \$800.00 for the bracing or do the work if allowed by APS. The pole will be protected by steel plate installed around the bottom 6 feet after the culvert is built. Details of that protection are not known. A Change Order will be issued to define what area of the gunite channel floor near the pole is to remain unsurfaced and any attachment fittings for the protective steel plate that are to be embedded in the culvert concrete pier.

2.0 Protection of Banks and Bottom of Channels and Basins: The bid items in this section include gunite, bomanite, gabions and buried rock installations at all locations. The CY quantity of earthwork in Bid Proposal Item 4.01 or 4.02 is the total of the excavation required to remove material from existing ground to finish grade lines of channels and basins. No cut quantity is included for the additional grading to form the proper depth sub-base under the

4" shotcrete, 4" bomanite, 1' gabion or 2' buried rock surface protection areas. The removal of dirt at these surface protection areas is to be included in the unit price per SY of surface tie down installed.

2.01 & 2.03: All reference to gunite or pneumatically placed mortar on the plans shall be understood to mean 4" thick shotcrete on 6x6/10x10 welded wire fabric reinforcing.

The shotcrete lining for the ditch shall be colored tan and conform to the lines and dimensions shown on the drawings. The specifications for the shotcrete shall be "State of Arizona Department of Transportation Highways Division Standard Specifications for Road and Bridge Construction" Ed. 1982. The Contractor will demonstrate acceptable quality of the surface on a test section using either the wet or dry process. No lining work will be allowed until a satisfactory test has been completed. The surface of the gunite shall have a natural gun finish.

The WWF shall be installed at 2" below the surface and bent down into the cut-off walls or tie downs along all edges of the shotcrete surface. Wherever the shotcrete surface joins gabion or buried rock protection, the shotcrete material will cover wires and rocks for a minimum of 1' outside the edge of the shotcrete surface. Separate bid items 2.02 and 2.03 are for the exposed surface of the shotcrete and the cut-off wall or tie down areas that are underground. The cost to backfill over the tie downs is included in the unit cost of bid item 2.03. Expansion joints at 15' intervals are required wherever the length or width of the shotcrete area exceeds 15'.

2.04 to 2.06: The plans call for bomanite at various locations. All reference to bomanite will be understood to mean a colored 3,000 psi mortar stamped on the surface to produce the appearance of cobblestone. The use of the term "Bomanite" in this specification is not intended to limit competition, but rather is used to set the standard of quality and appearance expected on this project. Comparable texture pavement processes will be acceptable, provided complete product and process data are submitted to the Engineer prior to installation.

The slope protection required in this project where bomanite is called for is further identified as 4" thick with 6x6/10x10 WWF 2" below the surface, tan colored, using a running bond cobblestone pattern, stacked Bomacron bond installation, and brown color release agent. Some locations where bomanite is to be installed are on steep slopes with curved surfaces. The Contractor will call for the inspector to observe the results of a test area at the location of a difficult place to stamp the surface and not proceed to finish the area installation until the stamped test area is approved or an alternate method to decorate the surface is decided. A separate bid item 2.05 is in the proposal to price the SY quantity of 6" thick bomanite used as a driveway for maintenance vehicles to get into the channel from A to B. Bid item 2.06 is for the unit price of bomanite cut-off walls or tie downs below ground that do not have to be stamped but do have to be covered with backfill after installed.

2.07 & 2.08: Gabions will line the channel spillway bank protection and basin at location H. Gabions shall be 1' thick and any standard lengths that conform to the dimensions of the areas to be covered. Shop drawing of the gabion placement patterns will be submitted to the Engineer for approval prior to in-

stallation. The SY quantity for this work includes the underground tie down areas. Bid item 2.08 is the lump sum cost to re-wire and refill with rock any existing gabions damaged during the removal of other gabions in conflict with new work.

2.09: The buried rock ditch protection is shown in details as being covered to hide the rock below a minimum of 1" dirt. The cover material is worked between the rock to fill the voids. Water settling is required for compaction. The black plastic liner sample will have to be approved by the Engineer. The rocks for this ditch protection shall be removed from the Hayden Road median between Jackrabbit and McDonald. The quantity of rock removed will leave the surface of the median approximately at a straight grade from top of curb to top of curb. Barricading will be required on Hayden during the removal and loading operations. Additional rocks required for ditch protection can be obtained from another source selected by the Contractor.

3.0 Storm Drain Catch Basins, Pipelines and Manholes: The plans show many locations where pipes are to be installed for storm drainage. The plans show R.C.P., R.G.R.C.P., or pipe for the storm drain systems. Any of the pipe materials listed in Section 9 of these Special Provisions can be used to construct the storm drains as shown. The contractor will be required to furnish proof that the pipe selected has the equivalent strength of the concrete pipe class designated at each location. Excavation for catch basins are considered incidental to the installation and not included in the structural excavation quantity. Pipe lines that have connections to catch basins will have stubs set in the pipe walls of the proper size and at the proper locations to accommodate the connections and these stubs are included in the unit price of the pipeline.

3.01 to 3.03: Trench excavation and backfill is in the unit price. The dirt slopes at D can be cut as necessary to provide the proper level track for pipe laying equipment. The trench backfill will restore the slopes at D to the proper compaction and finish grade as shown on the Cactus Detention Basin grading plan.

3.04: This 60" to 60" pipe connection behind the existing Cactus Detention Basin outlet headwall require special forming. The new 60" pipe end will have to be shaped to fit the wall of the existing 60" CIP pipe. Excavation for the collar will not extend under the existing 60" pipe. The inside circumference of the hole in the existing 60" pipe will be broken out and grouted to a smooth edge matching the inside of the new 60" pipe at the junction.

3.05 & 3.06: The Contractor will furnish details of these manholes for approval prior to installation. Watertight covers are required on the 60" pipeline.

3.07 to 3.11: These 12", 15" and 24" pipes are short lengths of Class III or IV. The L.F. price includes all work to put the pipe in place, connected as shown on the plans and properly covered to accommodate the next work over the trench.

3.12: The bid for this 27 x 43 ACMP placed in the silt trap dike at D includes the inlet end plate from invert to springline. This is a temporary installation that will be removed when grass is growing in the basin. Any pipe about the same size, new or used, with end plate fastened by another method may be installed if approved by the inspector.

3.13: This lump sum price is for installation of the pipe end section to fit properly into the channel slope.

3.16 to 3.19: Catch basin bid prices include grates if required. The Contractor will notify the Engineer if any reason is known to alter the catch basin design, i.e., pipe invert, pipe entry angle, length of curb opening, etc. No changes will be made without approval of the Engineer. The catch basin in Bid Item 3.18 has a short 15" pipe connection to the 90" pipe. The connector pipe placement is included in the LF quantity of 15" pipe.

4.0 Earth Work: This section contains descriptions of excavation and fill requirements at various locations. The quantity of excavation accounts for most of the work. The City has found two disposal sites. The Contractor will be required to make the detailed arrangements with the property owners if these sites are used for disposal. The Contractor is responsible for removal of the dirt from the project area and will need to locate more disposal areas than the two listed below:

Site 1. The fairways at 41st Street and Cholla needs 50,000 CY of fill delivered in July, 1984. The engineer for the site grading plan can be contacted to arrange the delivery details at Amwest Engineering Company, phone: 246-0888.

Site 2: Scottsdale Community College at Chaparral Road, east of Pima, needs 60,000 CY of fill delivered in July, 1984. The contact person at the college to arrange for the watering and grading equipment to be on site at time by delivery is Mr. Gordon Shillingburg (991-4331 or 941-0999 Ext. 273) or Judith Foe (941-0999 Ext. 225).

Haul routes, time of day, dates of delivery, clean up operations, dust control, etc., concerning this dirt moving operation will be approved by the City prior to the start date proposed.

4.01: The excavation in open areas is for the inlet basin and spillway @ H, 60' wide x 6' deep channel from A to B, the 50'± wide x 6' deep channel from H to I and the Cactus detention basin grading at D. The calculation of the CY quantity of trapezoidal shaped channels cut in a flat existing ground surface needs no supplemental drawings to understand the required mathematics. The calculation of CY quantity of earth removed from the Cactus detention basin has been done by using cross section data from existing aerial topo contours and the final grading plan contours in a Texas Instrument Company earth work program. The topo, grading plan and cross sections used to calculate the detention basin excavation quantity are in the project plans on Sheets 22-24. Contractors may request a copy of the earthwork program print-out and explanation of the output data format at the pre-bid conference on May 23. The basin grading will be closely controlled and "as built" during the work progress. The grading equipment should not leave the project area until the basin grades have been verified to be within 0.25' of design slopes and bottom elevations. Cut and fill quantities are volume of material removed or placed and do not account for shrinkage or compaction. The existing dike between the north and south borrow pits in the Cactus Basin will not be cut until the Cochise culvert, Gold Dust culvert and ditch from A to B is completed. A contractor is presently excavating 12,000 ± CY for delivery to a nearby job. An exact quantity verification will be furnished by contractor, and dirt buyer to be used to adjust the bid quantity at the pre-bid meeting.

The engineers for Cactus Park to be built in this basin area are proceeding with their final grading plans based on the assurance that the PVSP project will shape the basin to within 0.25' of the design grading plan. The contractor and the City will discuss and reconcile any differences in calculated excavation quantity at the pre-construction meeting or some other time prior to start of the work in this bid item and agree that the pay quantity is correct and no final measurement will be required. Very small fill requirements ($2 \pm$ CY) needed to complete other bid work will be considered part of the related work bid price, i.e., fill under bike path at G. The fill on the east bank of the channel from A to B is the only quantity counted in Bid Item 4.04. The two locations that require short 1' high berms are in the miscellaneous work section. Bid Item #4.05 is the dike in the detention basin used to trap silt until grass is planted.

5.0 Street Improvements & Related Surface Work: This section includes pavement of streets and driveways after the underground work is completed, pavement replacement over a pipe trench, curb, gutter, valley gutter, apron, sidewalk, bike path and other incidental work in the street. Water test will be required on new pavement where grades are less than 0.4%.

5.01 Sawcut: The L.F. quantity of sawcut is for all lengths shown on the plans where asphalt pavement, curbs, valley gutters, sidewalks, gunite banks, etc. are to be cut.

5.02 Subgrade Preparation: The SY quantity of subgrade preparation is the total of the following quantities of other work items that are to be installed on top of these prepared subgrade areas:

5.03	4" ABC Road
5.06	1" AC Surface on Scottsdale
5.07	3" AC Surface on Side Streets
5.08	2" AC Surface on Driveway
5.09	Pavement Replacement

The pavement removal work or the backfill work over pipes or culverts does not leave the area in a condition ready to place the ABC for the new roads. Careful grading is necessary to achieve the required sub-base elevations, compaction and surface smoothness.

5.03: The 4" ABC road on the ditch bank will be placed as required for preparation of road pavement base in MAG Section 301 and 310. The compaction of subgrade is (B) traffic ways @90 percent.

5.05 3" AC Type B-1 For Scottsdale Road: A bituminous prime coat of MC-250 or MC-800 applied at a rate of 0.5 gal. per square yard will be included in the price for this asphalt layer. The bituminous material used shall be AR-8000 or AC-40 and be added to obtain 5.5 percent of asphalt in the mix. This asphalt base surface shall be opened to traffic for 14 days before the finish asphalt surface is laid.

5.06 1" AC Type D-1/2 for Scottsdale Road: This will be the same SY quantity as the 3" AC Type B-1. A tack coat of SS-1h (diluted) shall be applied at the rate of 0.05 gallons per SY prior to placement of this finish asphalt course. The cost of this tack coat is included in the SY price for this asphalt layer. The bituminous material used shall be AR-8000 or AC-40 and be added to obtain 5.5 percent of asphalt in the mix. No preservative seal is required. Plans for a new alignment and grade for the curb along Scottsdale Road @ E are presently in design by Civil Engineering, P.C. The quantity of curb and gutter will not change, but the width of pavement to be installed at the north of the curb will be about 5' \pm less.

5.07 3" AC Type C-3/4 on 8" ABC: The prime coat, bituminous material and SY price information for Bid No. 5.05 also applies to this pavement surface. A preservative seal is required.

5.08 2" AC Type C-3/4 on 4" ABC for Driveways: The prime coat, bituminous material and SY price information for Bid No. 5.05 also applies to this pavement surface. A preservative seal is required.

5.09 Pavement Replacement Over Pipe Removed at F: This is the only location of pavement replacement quantity. A separate price is used for this quantity because the narrow width of asphalt required to be installed over the trench is not suitable for placement with large laydown equipment. The bid price is for compaction of the ABC trench backfill, the 3" AC base course and the 1" AC finish course. The bituminous material and percent of asphalt in the pavement replacement mix will be the same as specified for in Bid No. 5.05.

5.10 The L.F. quantity of thickened AC edge is for a 1' wide strip where MAG Detail 201 is called for on the plans. This 1' edge is not included in the SY quantity of street pavement.

5.15 The S.F. quantity for sidewalk includes the area of handicap ramp at intersection corners.

5.16 The limits of the S.F. area of bike path has been marked on the plans.

5.18 The 6" ABC detour price includes placement, compaction, repair as needed, removal, disposal, replacement of native soil and grading of the area to an appearance to match the adjacent area. Detour Plan Sheet 31 will be mailed 5/12/84.

6.0 Water and Sewer Relocations: The MAG Specs for water and sewer construction are supplemented by the City of Scottsdale and only the standard plan sheet notes applicable to this project are listed below.

IMPROVEMENT PLAN NOTES APPLICABLE TO CONSTRUCTION IN THE CITY OF SCOTTSDALE WATER SYSTEM, REVISED DECEMBER, 1982

(2) Water valve box installation and adjustment requirements:

- a. All new valve boxes shall be adjustable cast iron with pentagonally bolted lids, MAG Det. 391-1-C.
- f. All frames, covers and valve boxes shall be adjusted to finished grade upon completion of paving or related construction.

(7) Water lines shall be disinfected in strict conformance with MAG Standard Specification 611.9. MAG 611.9 is herewith amended as follows:

"Dry powdered calcium-hypochlorite compounds shall not be placed within pipelines during construction."

- (8) Notify the Field Engineering representative by telephone (994-2558) that you are ready to have samples taken to determine whether disinfecting has been adequate. The samples are collected by the Municipal Utilities Division on Mondays, Tuesdays and Wednesdays only.
- (9c) Unusual Conditions: Where conditions prevent the minimum horizontal and vertical separation set forth above, both the water main and sewer shall be constructed of mechanical joint cast iron pipe, or approved equal, and pressure tested to assure water tightness before backfilling. Where a water main must cross under a sewer, a vertical separation of at least 24 inches between the bottom of the sewer and the top of the water main shall be maintained, under all conditions, with adequate support provided for the sewer lines to prevent them from settling on and breaking the water main.
- (11) All compaction within public right-of-way will be Type 1, unless otherwise noted.
- (12) Thrust blocks and anchor blocks must be provided for tees, bends, valves and pipe ends in accordance with MAG STd. Det. 380 and 381.
- (16) An alternate to MAG iron pipe fittings conforming to AWWA C110 is the compact ductile iron Class 350 mechanical joint fittings from 3" to 12" supplied by NAPPCO, Inc. in conformance with proposed spec AWWA C153/A21.53 - 84. The proposed spec is available from Carmco Sales, Inc., Tempe, Arizona, telephone: 968-4724.

IMPROVEMENT PLAN NOTES APPLICABLE TO CONSTRUCTION ON THE CITY OF SCOTTSDALE SEWER SYSTEM, REVISED OCTOBER, 1983.

- (3) No completed sanitary sewer lines shall be backfilled until inspected and approved by the City of Scottsdale Field Engineering Manager or his representative.
- (4) All backfill compaction will be Type 1.
- (5) All manholes shall be adjusted to finished grade upon completion of paving or related construction.

The 12", 8" and 6" waterline relocations required for this project are written as "lower waterline and fittings" in the bid proposal. The work includes all bends, tees, joints, plugs, anchor blocks, thrust blocks, trenching, backfill, disinfecting, etc. Valves are priced separately in the bid proposal. The waterline over the 90" pipe crossing Sweetwater will be uncovered and the clearance over the top of the pipe marked with a survey stake. The inspector will decide if a relocation of that line is necessary or if only encasement will be required.

6.11: The contractor will submit detailed drawings of the clean-outs for the fire station sewer line relocation on Scottsdale Road at Thunderbird. The inspector will get approval from the City Sewer Section prior to allow-ign the contractor to do the work.

6.12 & 6.13: The plans call for the existing sewer manhole in the Scottsdale-Thunderbird intersection to be uncovered to a depth below the bottom of the box culvert designed to cross the intersection from NW to SE corners. The part of the manhole above the culvert floor will be removed and details of a corbel, ring and watertight cover designed to fit in the culvert floor will be submitted to the inspector for City Sewer Section approval prior to completing the manhole modification. The price for manhole top removal and building a new top in the culvert floor will be entered in bid Proposal Item No. 6.13. The price for only the manhole rim opening and cover in the roof of the culvert will be entered in Bid Proposal Item No. 6.12.

7.0 Miscellaneous Work & Traffic Signals: This section includes removals, metal work, minor grading, signs, walls, striping, traffic control and signals. The bid items in this section are for the work that can be identified by careful review of the plans. Other work necessary to complete this project that is not in the bid list will be considered as incidental to the related work and included in the other bid prices or covered by the price entered on the proposal for "miscellaneous work" and "miscellaneous landscape work."

7.02: This L.F. quantity is for all types of curbs that have to be removed.

7.06: This SY quantity of gunite channel lining removal includes the places where the existing gunite surface serves as a bike path also.

7.09: The contractor will discuss with the inspector the possibility of salvage and re-use of some parts of this block wall when removed. The property owner will be consulted about the use of salvage material in the new block wall and approve the construction of salvage material prior to starting the work in Bid Item No. 7.12.

7.12: This wall at location E will match the existing wall in color and appearance. The new wall will match existing walls at corners with no separation at the joint.

7.13: The "Sweetwater East" sign at location F will be relocated at a position designated by the inspector near the intersection corner.

7.14 Handrails: The L.F. quantity for this bid item is for all metal post and three rail handrails installed around headwall and wing walls throughout the project.

7.15 Top Grate on 90" Outlet walls: This bid includes frame, mesh, support beams, posts, welding, attachment fixtures, metal coatings and installation. The sleeves in the floor of the outlet structure are part of the concrete apron bid price. The contractor may submit shop drawings for approval by the engineer to show modifications to this frame and grate that make installation easier.

7.16 90" Pipe Inlet Grate with Latch: This is a Phoenix standard detail breakaway access barrier. The contractor will arrange to get the aluminum shea pin from Phoenix and include that cost in the bid price.

7.17 48" Pipe Trash Rack: There are two 48" pipe inlets at the northeast corner of the Cactus detention basin at location D that require entrance grates.

7.18 Miscellaneous Work: The work requirements identified on the plans that are to be priced in this bid item are: repair post and cable fence @ C/adjust manhole @ C/3 pipe supports over the 90" pipe/signs/encase 8" VCP @ E & F/300 ± LF of 1' high berm south of F and @ H/power pole bracing at G/and berm over 12" pipe @ G. The contractor may notice other work that must be done to complete the project during site investigations. A list of those tasks can be brought to the pre-bid meeting and a decision made at that time to specify the major work as added bid items by an addendum. The contractors may prefer to price the tasks not listed above in this bid item.

7.19 Miscellaneous Landscape Work: The work requirements identified on the plans that are to be priced in this bid item are: removal of silt in the inlet channel @ G/installation of 2" crushed granite with Gem Guard Coating @ G/regrade and restore appearance of work areas @ C, F & G/trim shrubs @G/relocate two trees @ I/sod grass area @I/repair sprinklers @ B, G & I. The sprinkler repairs will not be accepted until the property owners approve of the work. Plans for the existing sprinkler systems will be obtained by the landscape company from the owner prior to doing the work and the proposed restoration plan for the system will be approved by the owner by signature on the plan. The City inspector will be furnished a copy of the signed sprinkler relocation plan prior to starting the work.

7.20 Traffic Control: This bid item is for all barricades, signs, lights, police officers, flagmen, etc. needed to keep traffic moving at a minimum of one 10' lane in each direction through the work sites. Street closed signs are needed when work is in progress at location C, E, F & G. All traffic control signing, haul routes and barricading plans will be submitted to the inspector for approval prior to starting the work and all changes to the plan will be approved before being made. Street closed sign locations are also considered a traffic control plan and must be shown on a drawing for approval. Plan sheets #28, 29 & 30 will be mailed to all bidders as Addendum #1 on May 16, 1984, to show the barricading plan required to be used at the Scottsdale - Thunderbird intersection during the time work on each of the three culvert construction phases are in progress. All traffic control will be in accordance with the City of Phoenix Traffic Control Manual.

The contractor shall notify the inspector seven (7) days in advance of the time work will be started in areas requiring the rerouting of traffic, traffic lane striping, and removal of street signs. The foregoing shall apply to progressive modifications of traffic routings within an area in which work is in progress.

Whenever the contractor's operations create a condition hazardous to the public, he shall furnish such flagmen and guards as are necessary to give adequate warning to the public of any dangerous conditions. Flagmen and guards, while on duty and assigned to give warning and safety devices shall conform to applicable city, county, and state requirements. Should the contractor appear to be neglectful or negligent in furnishing adequate warning and protection measures, the inspector may direct attention to the existence of a hazard and the necessary warning and protective measures shall be furnished and installed by the contractor without additional cost to the City. Should the inspector point out the inadequacy of warning and protective measure, such action of the inspector shall not relieve the contractor from any responsibility for public safety or abrogate his obligation to furnish any pay for those devices. The installation of any general illumination shall not relieve the contractor of his responsibility for furnishing and maintaining any protective facility. Contractor will develop routes for haul trucks on public streets which will be submitted in writing through the inspector to the City of Scottsdale, City Traffic Engineering Manager, for review and approval action. The submittal shall include, but not be limited to, the proposed travel direction, turn movements, hours of use, street sweeping, watering and clean-up. All signs to be used on the job during periods of darkness shall be reflectorized. Traffic control shall conform to the Part #400 of Uniform Standard Specifications for Public Works Construction, Maricopa Association of Governments, Arizona (MAG); Scottsdale Traffic Control Requirements; and the Phoenix Barricade Manual. No work will be allowed before 7:00 A.M. or after 7:00 P.M. unless otherwise approved by the inspector. No utility relocation work that would obstruct the flow of traffic shall be done between the hours of 7:00 A.M. to 9:00 A.M. and 4:00 P.M. and 6:00 P.M.

7.21 Striping: The contractor will be required to stripe all pavement areas with the same markings that existed before this project work started. The contractor will mark the stripes to be replaced on a print of the plan sheets showing new pavement and submit the drawing to the inspector for signature that the stripe replacements are correct. The signed plan sheet will be used to check the new stripes.

7.22 & 7.23 Traffic Signals: This is a lump sum bid for all work shown on plan sheets #19 and 20. The information in General Conditions Item #20 on Page #8 of these specifications shall apply. The use of an uniformed police officer means an off-duty City of Scottsdale Officer paid by the contractor at the rate of \$13.00 per hour. The contractor is expected to reuse all signal equipment that will function properly at the relocation sites and salvage for the City any equipment that must be replaced. All wire, connectors, mountings, etc. incidental to completion of the work will be furnished by the contractor.

8.0 Alternate Bids: Prices must be entered for these two alternate bid items. The award of this contract will be for the low base bid. The alternate bid items will become part of the contract if accepted by the City in writing within thirty (30) days after the bid opening.

8.01 Gabions to Replace Bomanite: The quantity of the bid item is the total of all the bomanite surfaces on channel banks and all the underground bomanite tie downs or cut-off walls. The gabions will be minimum 1' thick baskets of any lengths that best fit the installation areas. Baskets that do not fit the same bomanite bank areas will be trimmed and the cut ends repaired prior to placement. This bid quantity does not include the two locations shown on the plans near H that show a gabion bank spillway and a gabion basin side channel junction. The gabions shown on the plans are base bid items.

8.02 Exposed Aggregate Wall Surface Treatment: The surface treatment on certain concrete work bid items in Section #1 shall be bid as ALTERNATE WORK. The ALTERNATE BID price shall be for only the additional work to provide a special treatment on the visual concrete surface. Acceptance of the ALTERNATE BID PRICE by the City of Scottsdale will increase the amount to be paid to the Contractor for building that specific concrete structure to the total of the BASE BID PRICE plus the ALTERNATE BID INCREASE PRICE.

The following special surface treatment to expose the aggregate is for the visible side of all headwalls, wingwalls and aprons at locations B, C, F, G & I. All visible surfaces of the concrete structure shall have an exposed aggregate finish. Means of obtaining exposed aggregate finish shall be developed and devised by the contractor. The intent is to obtain a uniform appearance, similar in texture and color to the drainage structures at 96th Street and Via Linda on the Scottsdale Ranch in the City of Scottsdale. A test panel will be provided by the contractor, perhaps on an unexposed surface, for the Engineer and/or his representative to approve. If in the opinion of the Engineer and/or his representative a uniform appearance has not been obtained, the contractor will be required to treat the surface in such a manner so that a uniform appearance is obtained.

9.0 PIPE MATERIALS

9.1 The Contractor shall have the option of installing either round or elliptical reinforced concrete pipe, non-reinforced concrete pipe, cast-in place concrete pipe, smooth metal lined corrugated metal pipe, concrete lined corrugated metal pipe as specified, where storm drains are called for on the plans subject to the provisions of MAG SPECIFICATION 615, 618, 620, 621, 735 and 736 including amendments hereinafter outlined in these SPECIAL PROVISIONS. All pipe, in order to be considered for installation, shall have a minimum service life of 70 years as documented by the Contractor and approved by the engineer.

9.2 CONDUIT DESIGN CRITERIA

Conduit used in this project shall be designed in accordance with accepted structural design methods and procedures. All conduit under pavement shall be designed to be equivalent to the minimum equivalent roundpipe D-load, using an H-20 highway live loading. Conduit shall meet the full-flow (not surcharged) capacity of circular same size pipe, using Manning's $n=0.012$. If non-reinforced concrete pipe is used, it shall be designed and tested to meet an ultimate loading 50% greater than the "0.01 D-load". It shall be manufactured to the requirements of ASTM C-14 (except Table 1), and except that reinforcing shall be required in the bell and spigot ends of the pipe. Cast-in-place pipe shall be designed in accordance with Section 9.5 of these SPECIAL PROVISIONS. Elliptical conduit shall meet ASTM C-507-74. CMP shall meet Section 9.6 or 9.7 of the SPECIAL PROVISIONS. Under pavement criteria applies to conduit under the

City streets and future pavement widths. Equivalent round pipe D-load using a dead load calculated at 130 lbs/cu.ft. shall be used for the strength criteria for conduit not under pavement. If pre-cast concrete pipe is used, Class II strength shall be required whenever pipe is not under pavement.

9.3 Jointing: All precast conduit shall be self-centering with joints mortar grouted on the inside of the conduit. Outside grouting will not be required. CMP jointing shall be in accordance with Section 9.6.4 or 9.7.4 of the SPECIAL PROVISIONS.

9.4 Shop Drawings: The various conduit materials may require minor changes in details other than indicated on the drawings. It shall be the responsibility of the Contractor at no cost to the City to prepare shop drawings of details of construction, should the conduit material proposed by the Contractor require modification of details shown on the plans. The shop drawings shall be submitted to the design engineer for approval two weeks prior to the start of construction.

9.5 CAST -IN PLACE CONCRETE PIPE

9.5.1 This product is to conform to Standard Specifications Section 620 except as amended by this provision. Section 620.2.4 should read slump not less than 1½ inches nor more than 3 inches. Section 620.3.2 amend paragraph (B)-(2) to read 1/12 of the I.D. plus 1/2 inch.

9.5.2 Design Justification:

The Contractor or his subcontractor shall provide detailed design calculations supporting the minimum design criteria called for in Section 9.2 of these Special Provisions. The design shall follow the requirements of A.C.I. 346-70, except Section 9.6, which shall be deleted.

9.6 CORRUGATED METAL PIPE - SMOOTH METAL LINED

9.6.1 General: Corrugated pipe shall comply to MAG Standard Specification 621 and the supplemental provisions of these Special Provisions. The pipe shall be 3 x 1 corrugations.

9.6.2 Materials: The thickness of the corrugated pipe shall be a minimum of 0.079 inches and the thickness of the smooth metal liner shall be a minimum of 0.052 inches in order to meet the requirements for 70 year design life using Figure 5-4, Chart for Estimating Average life of Plain Galvanized Culverts, page 238, American Iron and Steel Institute Handbook of Steel Drainage & Highway Construction Products, Third Edition 1983. The soil PH and resistivity values used to select the minimum thickness of the pipe and the liner were 8.4 and 1200 ohm cm respectively as determined by a certified testing laboratory on soil samples obtained at the pipe depth every 500' along the alignment in April 1984. A 20 year extension of the service life that was determined on the AISI Handbook Chart was allowed because of the bitumastic coating required in these Special Provisions section 9.6.3. Corrugated steel manholes will be allowed with a minimum thickness of 0.079 inches. Structural design for H-20 loading is required for the pipe and manholes. The contractor shall certify that the pipe backfill has a Ph over 7.3 and resistivity greater than 1200 ohm cm.

9.6.3. Coatings: Smooth metal lined corrugated pipe shall be provided with a bitumastic coating on the inside and outside in accordance with the requirements of AASHTO M-190. Minimum coating thickness shall be 0.05 inches. At the end of pipe joints, voids between the outer shell and inner liner shall be plugged solid with coating material a minimum of six inches from the pipe end, unless the ends are flanged prior to asphalt coating.

9.6.4 Jointing: Pipe shall be laid with the separate sections jointed together in such a manner that the joint space shall not exceed one-half inch. Once couplings are installed, the inside joint shall be filled to the springline with appropriate compound approved by the engineer.

9.7 CORRUGATED METAL PIPE - CONCRETE LINED

9.7.1 General: Corrugated pipe shall comply to MAG Standard Specification 621 and the supplemental pipe thickness requirements in the Special Provisions Section 9.6.2.

9.7.2 Materials: The information in these special provisions, Section 9.6.2 contain the test results of soil samples taken along the pipe alignment. The requirement for 3 x 1 corrugations, 0.079 inch thickness, 0.05 inch coating and certification of backfill material is required for this pipe alternative.

9.7.3 Concrete Lining: Manufacturer's standard certificate of compliance that the concrete lining meets the following specifications will be required.

- (a) Composition - Concrete for the lining shall be composed of cement, fine aggregate, and water that are well mixed and of such consistency as to produce a dense, homogenous, nonsegregated lining.
- (b) Cement - Portland cement shall conform to the requirements of AASHTO M 85.
- (c) Aggregates - Aggregates shall conform to AASHTO M 6 except that the requirements for gradation and uniformity of gradation shall not apply.
- (d) Mixture - The aggregates shall be sized, graded, proportioned, and thoroughly mixed with such proportions of cement and water as will produce a homogenous concrete mixture of such quality that the pipe will conform to the design requirements of this specification. In no case, however, shall the proportions of portland cement, blended cement or portland cement plus pozzolanic admixture be less than 470 lb/cu. Yd. of concrete.
- (e) Thickness - The lining shall have a minimum thickness of 1/8" above the crest of the corrugations.

- (f) Lining Procedure - The lining shall be plant applied by a machine traveling through a stationary pipe. The rate of travel of the machine and the rate of concrete placement shall be mechanically regulated so as to produce a homogenous nonsegregated lining throughout.
- (g) Surface Finish - The lining machine shall also mechanically trowel the concrete lining as the unit moves through the pipe.

9.7.4 Jointing: Pipe shall be laid with the separate sections joined together in such a manner that the joint space shall not exceed 1/2". Each piece of pipe shall have at least 2 annualr corrugations in the end and be connected by a HUGGER type band 10½ wide with solid O-ring gaskets.

BID CALL 84-86
PROPOSAL

CITY OF SCOTTSDALE, ARIZONA
CAPITAL ENGINEERING

PROPOSAL TO THE CITY OF SCOTTSDALE:

In compliance with the Advertisement for Bids, by the Purchasing Director: The undersigned bidder

Having examined the contract documents, site of work, and being familiar with the conditions to be met, hereby submits the following Proposal for furnishing the material, equipment, labor and everything necessary for the completion of the work listed and agrees to execute the contract documents and furnish the required bonds and certificates of insurance for the completion of said work, at the locations and for the prices set forth hereinafter.

Understands that construction of this project shall be in accordance with all applicable Uniform Standard Specifications and Standard Details except as otherwise required by the Project Plans and Special Provisions.

Understands that his proposal shall be submitted with a proposal guarantee of cash, certified check, cashier's check or surety bond for an amount not less than (10%) Ten Percent of the Base Bid Amount.

Agrees that upon receipts of Notice of Award, from the City of Scottsdale, he will execute the contract documents.

Work shall be completed within one hundred fifty (150) calendar days, beginning with the day following the starting date specified in the Notice to Proceed. The time allowed for completion of the work includes lead time for obtaining the necessary material and/or equipment.

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
1.01	206.1	CY	Culvert Barrels @ B			
1.02	14.6	CY	Culvert Outlet Headwall & Wings @ B			
1.03	4.3	CY	Culvert Outlet Apron @ B			
1.04	14.7	CY	Culvert Inlet Headwall & Wings @ B			
1.05	114.9	CY	Culvert Barrels @ C			
1.06	17.3	CY	Culvert Outlet Headwall & Wings @ C			
1.07	17.3	CY	Culvert Inlet Headwall & Wings @ C			
1.08	55.0	CY	90" Pipe Outlet Headwall & Side Walls			
1.09	14.4	CY	90" Pipe Outlet Apron & Vertical Fins			
1.10	1	LS	60" Pipe Stub in 90" Outlet Wall			
1.11	1	LS	48" Pipe Stub in 90" Outlet Wall			

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
1.12	11.3	CY	48" Pipe Headwall & Wings (2 each) @ D			
1.13	24.8	CY	10 x 9 Box Culvert Entrance @ F			
1.14	22.3	CY	Headwall & Wings @ F			
1.15	140.9	CY	Culvert Barrels @ G			
1.16	1	LS	8 Roadway Drains @ G			
1.17	36.5	CY	Outlet Headwall & Wings @ G			
1.18	14.9	CY	Culvert Inlet Headwall & Wings @ G			
1.19	355.8	CY	Culvert Barrels @ I			
1.20	14.0	CY	Culvert Outlet Headwall & Wings @ I			
1.21	20.7	CY	Culvert Inlet Headwall & Wings @ I			

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
2.01	238	SY	Gunite Apron @ G & 48" Pipe Inlet			
2.02	1924	SY	Gunite Slopes Exposed Surface			
2.03	356	SY	Gunite Slope Tie Down or Cut-Off Walls			
2.04	1805	SY	4" Bomanite Surface			
2.05	10	SY	6" Bomanite Driveway @ B			
2.06	514	SY	Bomanite Slope Tie Down or Cut-Off Walls			
2.07	886	SY	Gabions on Bank @ H			
2.08	2	LS	Gabion Repair @ F & G			
2.09	1225	SY	Burried Rock Protection w/Plastic Mat @ A,B,D,H			

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
3.01	1572	LF	90" Pipe D to F			
3.02	915	LF	60" Pipe at D			
3.03	780	LF	48" Pipe at D			
3.04	1	LS	60" Pipe Connection			
3.05	2	LS	MH in 90" Pipe			
3.06	2	LS	MH in 60" Pipe			
3.07	214	LF	15" RGRCP Class IV at B, C			
3.08	26	LF	15" RGRCP Class III at G			
3.09	42	LF	12" RGRCP Class III at G			
3.10	90	LF	12" RGRCP Class IV at G			
3.11	54	LF	24" Pipe RCP Class III connections to catch basins at E			

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
3.12	1	LS	27 x 43 ACMP @ D			
3.13	1	LS	12" CMP Galvanized End Section			
3.14	3	EA	Flap Gate & Chamber at G (12")			
3.15	1	LS	Flap Gate & Chamber at G (15")			
3.16	4	EA	Catch Basin Det. 531 at B, C, F			
3.17	1	EA	Catch Basin Det. 535 W/Grate at E			
3.18	4	EA	Catch Basin Det. 530 at G			
3.19	2	EA	Catch Basin Det 532			
4.01	171,131	CY	Excavation in Open Areas			
4.02	305	CY	Excavation in Small Areas D, E, G			
4.03	213.7	CY	Excavation for Structures			

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
4.04	399	CY	Fill Bank (Gold Dust to Berneil Ditch)			
4.05	80	CY	Fill Silt Trap Dike at D			
5.01	670	LF	Sawcut Edges of Pavement & Concrete			
5.02	6,024	SY	Subgrade Preparation			
5.03	1,599	SY	4" ABC Road on Ditch Bank			
5.04	1,592	SY	12" ABC On Scottsdale			
5.05	1,592	SY	3" AC Type B1 on Scottsdale			
5.06	1,592	SY	1" AC Type D1/2 on Scottsdale			
5.07	2,507	SY	3" C3/4 AC on 8" ABC at B, C, E, F			
5.08	308	SY	2" C3/4 AC on 4" ABC Driveway @ B, C			
5.09	23	SY	Pavement replacement over pipe @ F			

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
5.10	344	LF	Thickened AC Edge, Det. 201-B			
5.11	170	LF	6" x 6" AC Curb @ B			
5.12	88	LF	6" Single Curb @ B, C			
5.13	1,241	LF	6" VC & G @ B, C, E, F, I			
5.14	2,929	SF	Conc. VG & Aprons at B, I			
5.15	2,334	SF	Conc. S/W & Ramps at B, C, I			
5.16	5,798	SF	8' Conc. Bike Path			
5.17	2	EA	Survey Monument at I			
5.18	1	LS	6" ABC Detour Construction & Removal			
6.01	220	LF	Lower 12" D.I.P. waterline and fittings @ B & I			
6.02	66	LF	8" D.I.P. Waterline & Fittings @ B			

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
6.03	220	LF	Lower 6" D.I.P. Waterline & Fittings @ C, I			
6.04	1	LS	Lower Water Service Under Channel @ I			
6.05	4	EA	12" V.B. & C. Type C			
6.06	1	EA	8" V.B. & C. Type C			
6.07	3	EA	6" V.B. & C. Type C @ C, I			
6.08	2	LS	Reset F.H. w/V.B. & C. @ F & I			
6.09	1	LS	Connect 4" VCP Sewer to M. H. @ H			
6.10	115	LF	4" Sewer Connection			
6.11	2	LS	4" Sewer Clean Outs at I			
6.12	1	LS	M.H. Shaft & Cover Over Culvert @ I			
6.13	1	LS	M.H. Rim & Water Tight Cover Inside Culbert @ I			

TOTAL BASE BID _____ DOLLARS

CONTRACTOR'S NAME _____

_____ CENTS

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
7.01	3,964	SY	Remove AC Street or D/W Pavement @ B, C, E & F			
7.02	1,166	LF	Remove Conc. Curb/Curb & Gutter @ B,C,E,F, I			
7.03	2,713	SF	Remove Conc. V.G./Apron/Driveway @ B,C,E,F			
7.04	1,978	SF	Remove Conc. S/W @ B, C, I			
7.05	1	LS	Remove Sump Pump & PVC Pipe @ B			
7.06	1,379	SY	Remove Gunite Channel Lining @ B, C, F, G			
7.07	1	EA	Remove End of 12" Pipe & Headwall @ C			
7.08	1	LS	Remove 72" Conc. Culvert, Headwalls & Handrails @ C			
7.09	293	LF	Remove 6' Block Wall			
7.10	1	LS	Remove Gabions @ F, G			
7.11	190	LF	Remove 12" CMP @ F			
7.12	258	LS	Construct 6' Block Wall			

TOTAL BASE BID _____ DOLLARS

CONTRACTOR'S NAME _____

_____ CENTS

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
7.13	1	LS	Relocate Sign @ F			
7.14	703	LF	Handrails			
7.15	1	LS	Top Grate on 90" Outlet Structure			
7.16	1	LS	90" Pipe Inlet Barrier Grate & Latch			
7.17	2	LS	48" Pipe Trash Racks			
7.18	1	LS	Miscellaneous Work			
7.19	1	LS	Miscellaneous Landscape Work			
7.20	1	LS	Traffic Control			
7.21	1	LS	Striping			
7.22	1	LS	Traffic Signal Relocation @ F			
7.23	1	LS	Traffic Signal Relocation @ I			

TOTAL BASE BID _____ DOLLARS

CONTRACTOR'S NAME _____

_____ CENTS

BID CALL #84-86

PROPOSAL

THIS PROPOSAL IS SUBMITTED BY _____,
 a corporation organized under the laws of the State of _____,
 a partnership consisting of _____
 or individual trading as _____
 of the City of _____

By submitting this proposal I (or we) hereby agree to enter into the Contract included in the bid documents and I (or we) further agree that this proposal incorporates by reference to the same extent as if set forth herein in full all of the terms and conditions contained in said bid documents identified as BID CALL NO. 84-86 , PROJECT NO. 8916 , including Plans, Standard Specifications and Details, Project Manuals, Special Provisions, Addenda, if any, Performance Bond, Payment Bond and Certificates of Insurance.

Respectfully submitted,

FIRM: _____

ADDRESS: _____

TEL. NO.: _____

DATE: _____

BY: _____
OFFICER AND TITLE (SEAL)

ATTEST:

OFFICER AND TITLE

WITNESS: IF BIDDER IS AN INDIVIDUAL

TO _____

BID CALL # 84-86

PROJECT DESCRIPTION:

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated _____, 198 and Information for Bidders.

You are hereby notified that your BID has been accepted by the City Council on _____ for items in the amount of \$ _____

You are required by the Information for Bidders to execute the Agreement and furnish the required Contractor's Performance Bond and Payment within ten (10) days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said bonds within ten (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your Bid Bond. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of the NOTICE OF AWARD to the OWNER.

Dated this _____ day of _____, 198 .

CITY OF SCOTTSDALE

By: _____

ACCEPTANCE OF NOTICE:

TITLE: _____

Receipt of the above NOTICE OF AWARD is hereby acknowledged.

BY: _____

TITLE: _____

Subscribed and sworn to before me this _____ day of _____ 198 .

NOTARY PUBLIC

My Commission Expires

NOTICE TO PROCEED

PROJECT NO. 8916

BID CALL NO.84-86

TO: _____

DATE: _____
PROJECT: _____

You are hereby notified to commence work in accordance with the Agreement dated _____, 19____, on _____, 19____, and you are to complete the WORK within _____ consecutive calendar days thereafter.

The date of completion of all WORK is therefore _____, 19____.

Official time extensions thereto shall be considered and authorized in strict conformance with the applicable General Conditions of the Standard Specifications.

CITY OF SCOTTSDALE

BY: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged.

BY: _____

TITLE: _____

Subscribed and sworn to before me this _____ day of _____, 19____.

NOTARY PUBLIC

My Commission Expires

BID BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____
 _____, as Principal, and _____
 _____, as Surety, are held and firmly bound
 unto the City of Scottsdale in the penal sum of _____
 Dollars (\$ _____) lawful money of the United States of
 America, to be paid to the order of the City of Scottsdale, for which payment,
 well and truly to be made, we bind ourselves, our successors and assigns, signed
 with our seals and dated _____, 19 .

The conditions of the above obligation are such that whereas the City Council of
 the City of Scottsdale, on the _____ day of _____, 19 , did
 order the following works to be done, to wit:

→ PROJECT NO. 8916

WHEREAS, _____, the principal herein in answer to
 the Notice Inviting Proposals or bids issued by the City of Scottsdale, put in
 its bid for the making of said improvements.

NOW THEREFORE, if the bid of _____, as
 aforesaid be accepted by the City Council of the City of Scottsdale, and
 _____ shall enter into a contract to
 make said improvements at the price specified in its bid, then this obligation to

(cont'd)

be void of no effect, otherwise to remain in full force and virtue.

PRINCIPAL (SEAL)

BY: _____

ATTEST:

SURETY

BY: _____

ATTORNEY IN FACT

AGENCY OF RECORD

AGENCY ADDRESS

CONTRACT

THIS AGREEMENT, made and entered into this _____ day of

_____, 19__ by and between _____

of the City of _____, County of _____,

and State of _____, party of the first part hereinafter designated the CONTRACTOR, and the City of Scottsdale, a municipal corporation, organized and existing under and by virtue of the laws of the State of Arizona, party of the second part, hereinafter designated the 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 herein contained and under the penalties expressed in the bonds provided, hereby agrees, for himself, his heirs, executors, administrators, successors, and assigns 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 Bid Call No. 84-86, Project No. 8916.

and to completely 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: Bid Call No. 84-86, Project No. 8916, Plans, Standard Specifications and Details, Project Manuals, Special Provisions, Addenda, if any, and Contractor's Proposal, as accepted by the Mayor and Council per Council Minutes of _____, 19__. 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 construction 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 form.

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 and/or lump sum 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, five (5) 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.

ATTEST:

(CONTRACTOR - PARTY OF THE FIRST PART)

WITNESS: IF CONTRACTOR IS INDIVIDUAL

BY:

NAME AND TITLE

(CORPORATE SEAL)

CITY OF SCOTTSDALE, A MUNICIPAL CORPORATION

(OWNER - PARTY OF THE SECOND PART)

ATTEST:

ROY R. PEDERSON, CITY CLERK

BY:

MAYOR

BY:

BETTY WARREN, DEPUTY CITY CLERK

ADMINISTRATIVE RESPONSIBILITIES:

APPROVED AS TO FORM:

MANAGER CAPITAL ENGINEERING

CITY ATTORNEY

RECOMMENDED FOR APPROVAL:

INSURANCE APPROVED BY:

DIRECTOR OF TRANSPORTATION ENGINEERING

DIRECTOR OF RISK MANAGEMENT

PUBLIC WORKS ADMINISTRATOR

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 law 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 City of _____
and 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
City of _____, 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 and 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.

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 the _____ day of _____, 19

PRINCIPAL

BY

SURETY (SEAL)

BY

AGENCY OF RECORD

AGENCY ADDRESS

LABOR AND MATERIALS BOND

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 City of
_____, 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 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 the _____ day of _____, 19 .

PRINCIPAL

BY

SURETY (SEAL)

BY

AGENCY OF RECORD

AGENCY ADDRESS

CERTIFICATE OF INSURANCE

BID CALL # OR PROJECT # 8916

PROJECT TITLE PVSP DRAINAGE SYSTEM

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

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	POLICY EXPIRATION DATE	LIMITS OF LIABILITY IN \$1,000 each occurrence	
				MINIMUM	
	<input type="checkbox"/> COMPREHENSIVE GENERAL LIABILITY FORM <input type="checkbox"/> PREMISES OPERATIONS <input type="checkbox"/> CONTRACTUAL <input type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input type="checkbox"/> EXPLOSION & COLLAPSE <input type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input type="checkbox"/> UNDERGROUND HAZARD <input type="checkbox"/> INDEPENDENT CONTRACTORS <input type="checkbox"/> PERSONAL INJURY			BODILY INJURY per person \$250 each occurrence \$500 PROPERTY DAMAGE \$250 OR BODILY INJURY AND PROPERTY DAMAGE Combined \$500	
	<input type="checkbox"/> AUTOMOBILE LIABILITY			SAME AS ABOVE	
	<input type="checkbox"/> EXCESS LIABILITY			NECESSARY IF UNDERLYING NOT ABOVE MINIMUM	
	<input type="checkbox"/> WORKERS' COMPENSATION and EMPLOYERS' LIABILITY			STATUTORY	each accident \$100
	<input type="checkbox"/> OTHER				

When the project includes construction of a new or modification of an existing City building or structure a course of construction policy covering the perils of fire, extended coverage and vandalism and malicious mischief in the amount of the contract (less landscaping) shall be provided with the City of Scottsdale named therein as a "Loss Payee" and the insurer shall waive subrogation rights against the City of Scottsdale.

The City of Scottsdale is added as an additional insured as respects work done for the City by the named insured or if required by City Ordinance. It is agreed that any insurance maintained by the City of Scottsdale may only apply in excess of the coverages and limits of insurance available from other sources. It is further agreed that no policy shall expire, be cancelled or materially changed without (15) fifteen days written notice to the City. THIS CERTIFICATE IS NOT VALID UNLESS COUNTERSIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE INSURANCE COMPANY.

NAME AND ADDRESS OF CERTIFICATE HOLDER CITY OF SCOTTSDALE 3939 CIVIC CENTER PLAZA SCOTTSDALE, ARIZONA 85251
--

DATE ISSUED _____

 AUTHORIZED REPRESENTATIVE

CONTRACTOR'S AFFIDAVIT
REGARDING
SETTLEMENT OF CLAIMS

_____, Arizona

Date _____

RE: _____

To the City of Scottsdale, Arizona

Gentlemen:

This is to certify that all lawful claims for materials, rental of equipment and labor used in connection with the construction of the above project, whether by subcontractor or claimant in person, have been duly discharged.

The undersigned, for the consideration of \$ _____, as set out in the final pay estimate, as full and complete payment under the terms of the contract, hereby waives and relinquishes any and all further claims or right of lien under, in connection with, or as a result of the above described project. The undersigned further agrees to indemnify and save harmless the City of Scottsdale against any and all liens, claims of liens, suites, action, damages, charges and expenses whatsoever, which said City may suffer arising out of the failure of the undersigned to pay for all labor performances and materials furnished for the performance of said installation.

Signed and dated at _____, this _____ day of _____ 19 .

CONTRACTOR

BY

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

The foregoing instrument was subscribed and sworn to before me this _____ day
of _____, 19 .

Notary Public

My Commission Expires

_____, Arizona

Date _____

RE: _____

To the City of Scottsdale, Arizona

Gentlemen:

The final pay estimate of \$ _____, which represents total and complete payment under the terms of the contract, fully and completely reflects the actual quantities of work performed. Said final quantities were mutually measured and agreed upon by authorized representatives of the undersigned and the City of Scottsdale.

Signed and dated this _____ day of _____ 19 .

BY: _____

Title: _____

For: _____

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

The foregoing instrument was subscribed and sworn to before me this _____ day of _____ 19 .

Notary Public

FINAL ACCEPTANCE

TO: _____

DATE: _____

RE: _____

Gentlemen:

Construction on the above project was completed on _____ and on _____ a final inspection was made of the subject improvements by this office. The work substantially conforms to the approved plans and specifications. We, therefore, accept those portions within the public R/W into our system for maintenance.

Yours truly,

Recommended By:

- cc: File (2)
- City clerk
- Finance Director
- Public Works Inspection Supervisor
- Capital Engineering Manager
- Private Development Eng. Manager
- Purchasing Director

MINUTES OF PRE-CONSTRUCTION MEETING - PVSP DRAINAGE SYSTEM, PROJECT NO. 08916
 JULY 16, 1984

The following were in attendance:

Annette Grove	City of Scottsdale	994-2399
Bob Berlese	" "	994-2558
Bill Anthony	" "	994-2750
Ed Raleigh	Flood Control District	262-1501
Lynn Jensen	Steele & Jensen	244-8100
John Short	A.P.S.	271-3138
Bob Stewart	Mountain Bell	835-4045
Bill Crouch	" "	238-2577
Larry Flores	United Cable TV	990-1841
Scott Haggitt	Dencor Int. (UCTV Sub.)	996-2506
Mike Borden	C.S. Construction	979-2088
John Pearson	Swengel-Robbins	998-3950
Doyle Newton	" "	998-3950
Bob Ramage	Interwest Contracting	835-1717
Peter Mizlouh	Southwest Barricade	870-0173

1. Introductions were made of those present.
2. Mike Borden, C.S. Construction, distributed his schedule for the job.
3. John Short, APS, discussed their schedule for lowering of gas and electric lines, located at Thunderbird and Sutton. Both locations should be under construction within one week to ten days and be completed within 1 - 2 weeks.
4. Bob Stewart, Mountain Bell, discussed their schedule for lowering lines. Sweetwater location will begin within three weeks of being paid by the City. The conduit at Thunderbird requires eight weeks to order, then two weeks to construct (start @ 10/1/84).

Mike Borden, C.S. Construction, expressed concern of being penalized late fees if delayed by Mountain Bell. A time extension will be approved if this becomes a problem. Mike Borden requested a schedule in writing from APS and Mountain Bell.

5. Larry Flores, United Cable TV, discussed the lowering in front of the church, to be complete by 8/30/84.
6. Bob Berlese, Field Engineering, requested submittals on: the energy dissipator, and concrete mix designs for pipe and boxes. Bob Berlese will obtain a blanket permit for Mountain Bell's work. APS already has obtained their permit. The contractor should list all sub-contractors on his permit with the City. A Flood Control District permit requested by the surveyor, to be requested in writing thru the inspector, Bill Anthony. Restakes are to be paid by the contractor. Pay requests will be submitted on the 30th of the month.

JUL 25 '84

CH ENG	HYDRO
ASST	LMgt
ADMIN	SUSP
C & O	FILE
ENGR	DESTROY

LC 116

7. The contractor will submit a copy of their sub-contractors' list and contacts with emergency phone numbers.
8. On site meetings will be held on a as-needed basis. Haul routes and barricading plans need to be submitted to the City for approval.
9. The Gold Dust detours will have center and edge barricades per the Phoenix Barricade Manual and are to be serviced nightly.
10. The contractor suggested that the match line on the gunite channel south of Cochise be straight across the channel, would look neater. The contractor will be installing 96" instead of 90" pipe at the same bid unit price.
11. The Notice to Proceed will be issued this week, dated for Monday, July 23, 1984.
12. Known Change Order items were discussed: Change 6" bomanite driveway to 4"; change bomanite in Cactus Basin to exposed Aggregate; and increase asphalt at Sweetwater due to plans error.

AG/tk



CITY OF SCOTTSDALE
BID CALL NO. 84-86
PROJECT NO. 8916

PVSP DRAINAGE SYSTEM
ADDENDUM NO. 1 MAY 25, 1984

The Specifications and Plans are hereby amended and/or clarified as follows:

SPECIFICATIONS

Page/Paragraph	Correction
12	Add at end of <u>Description of Work</u> , "The quantity take off tables done by Scottsdale by bid item and sheet number are available upon request. All box culverts and the 90" pipe along Scottsdale Road must be complete by November 15, 1984. Liquidated damages will be assessed there after, in accordance with MAG Section 108.9."
13 (F and G) 1.15	<i>Location - Edmond Street (E & F) cannot be done at this time. This applies to F & G also</i> Revise the 2nd sentence to read: "The contractor will arrange to pay APS \$950.00 for the bracing, as required, or do the work if allowed by APS." Delete the last three sentences of the paragraph. Add at end: "APS will set a new pole 1' south of the existing pole prior to culvert construction."
14 2.0	Third line, add: "and" between surface and tie down.
14 2.04-2.06	Change second paragraph "Bomanite" color and pattern to: Sonoran tan and random stone. Delete reference to stocked Bomacron bond installation and release agent.
16 4.01	Add to bottom of Page 16: The load counts and truck capacities for the material excavated between May 5 and May 16, 1984, are available upon request. The loose load volume was 16,628 CY. The adjustment to the initial earth work quantity at the Cactus Basin will be 12,470 CY.
19 (5)	Correct typographical error from "relocatins" to "relocations". Delete last sentence in paragraph. Add: "The contractor will be paid by Change Order for the necessary relocation or encasement, as decided by the inspector."

Page/Paragraph Correction

- 20 6.12-6.13 Add to last sentence: "and steps in the side of the culvert" between culvert and will.
- 21 7.16 Third line, correct typographical error from "shea" to "shear".

23 Add Section 8.03 Exposed Coarse Aggregate Concrete to Replace Bomanite Surface: The quantity of this bid item is the total of all the bomanite surfaces on channel banks. The exposed coarse aggregate slope protection shall be 4" thick Class C (2,000 psi) concrete on 6 x 6/10 x 10 WWF with coarse aggregate as per AASHO M80. Gradation of aggregate shall be as follows:

Nominal Size Range	% Passing (by Wt.)				
	2-1/2 In.	2 In.	1 In.	1/2 In.	No. 4
2 In. - No. 4	100	95-100	35-70	10-30	0-5

The fresh concrete surface shall be washed to create an exposed aggregate finish similar to the channel protection at the Cactus Basin outlet structure near the N.E. corner of Scottsdale and Cactus Roads. The exposed coarse aggregate surface is in front of the metal grate. The reference for this finish and more information is contained in Std. Specs. for Construction of Roads and Bridges on Fed. Hwy. Projects 1969, U.S. Dept. of Transportation - Fed. Hwy. Administration.

23 Add Section 8.04 Coarse Aggregate Concrete to Replace Bomanite Slope Tie Down or Cut-Off Walls: The quantity of this bid item is the total of all the bomanite slope tie-down or cut-off wall on channel banks. The coarse aggregate slope tie-down or cut-off walls shall be constructed as specified in Section 8.03 above, except the surface shall not be washed.

24 9.3 Add to 1st sentence, "unless rubber gasket reinforced concrete pipe is used."

26 9.7.4 Second line replace / with period at end. Third line correct typographical error from "annualr" to "annular".

PROPOSAL

Make the following changes with black ink in the Specification Book on the page numbers shown:

<u>Page/Item #</u>	<u>Change</u>
29 1.15	Line out quantity 140.9. Write in 142.4.
29 1.17	Line out quantity 36.5. Write in 35.5.
30 2.08	Line out quantity 2. Write in 1. Add to the description (two locations).
31 3.05	Line out quantity 2. Write in 1. Add to the description (two locations).
31 3.06	Line out quantity 2. Write in 1. Add to the description (two locations).
32 4.01	Line out quantity 171, 131. Write in 158, 661.
35 6.08	Line out quantity 2. Write in 1. Add to the description (two locations).
35 6.11	Line out quantity 2. Write in 1. Add to the description (two locations).
35 6.12	Write in "and steps" between culverts and @ I.
36 7.06	Line out quantity 1,379. Write in 1,424. Add to end of description "NE corner @ D."
36 7.12	Line out quantity 258. Write in 1. Add to the description (258 LF).
37 7.17	Line out quantity 2. Write in 1. Add to the description (two locations).
38 8.01	Line out quantity 2,329. Write in 2,319. Add to end of description "except 6" thick driveway @ B."
38	Write in Item No. 8.03. Write in quantity of 1,805. Write unit of SY. Write in description "Exposed Coarse Aggregate Concrete to Replace Bomanite Surface."
38	Write in Item No. 8.04. Write in quantity of 514. Write in unit of SY. Write in description "Coarse Aggregate Concrete to replace Bomanite Slope Tie-Down or Cut-Off Walls."

PLANS

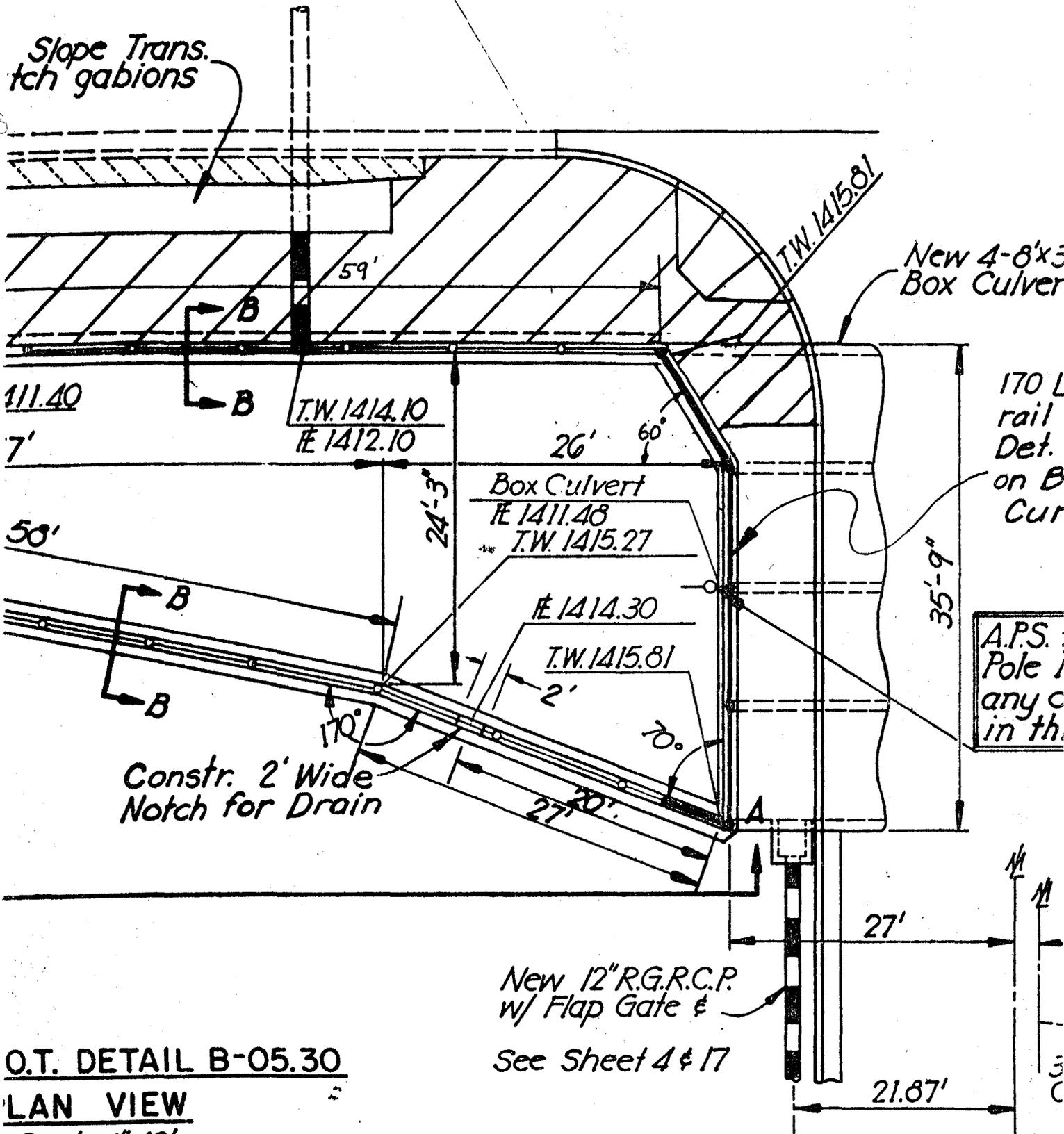
<u>SHEET #</u>	<u>CHANGE</u>
2	Extended west barrel of box culvert as shown on Page 5 and 6 of this addendum.
16	Added clarification of manhole shaft (Std. Det. 522), water tight manhole cover (Std. Det. 523) and added manhole steps (Std. Det. 428) inside of culvert wall as shown on page 7 of this addendum.
28-30	Enclosed drawings should be attached as part of the plan set. Plan sets picked up from the City of Scottsdale, Purchasing Office, after May 24, 1984, have these sheets included. Add Note: Signal to be manually controlled by Scottsdale Police Department during construction hours, when deemed necessary by the inspector.
31	Enclosed drawing should be attached as part of the plan set. Plan sets picked up from the City of Scottsdale, Purchasing Office, after May 24, 1984, have this sheet included.
31	Additional details of chain link fence grate for 90° outlet structure as shown on Page 8 and 9 of this addendum.

This addendum shall be stapled inside the front cover of the Project 8916 Specification Book and receipt acknowledged on Page 27.

John Conley
Purchasing Director, City of Scottsdale



Slope Trans.
ch gabions

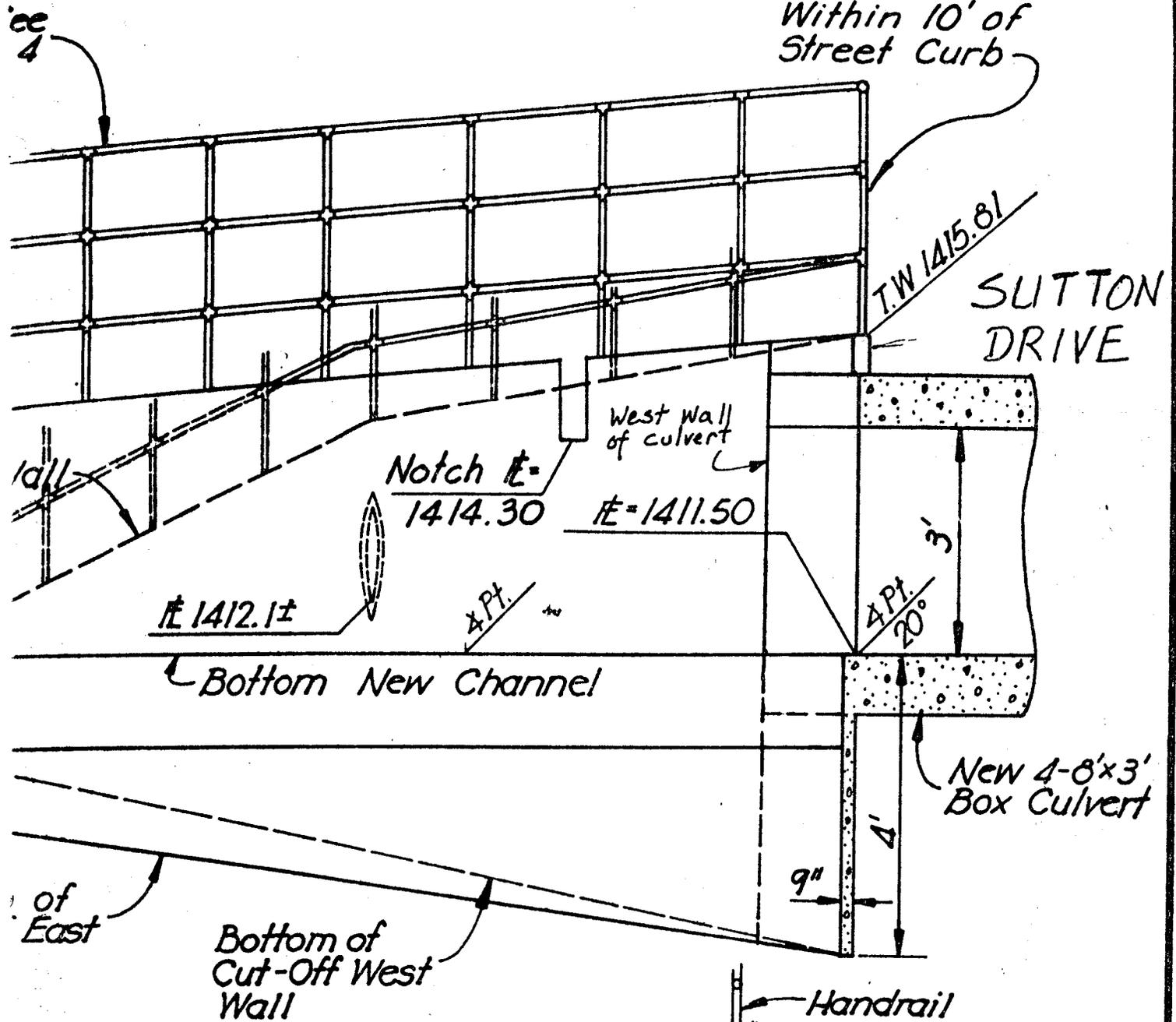


O.T. DETAIL B-05.30
LAN VIEW
Scale: 1"=10'

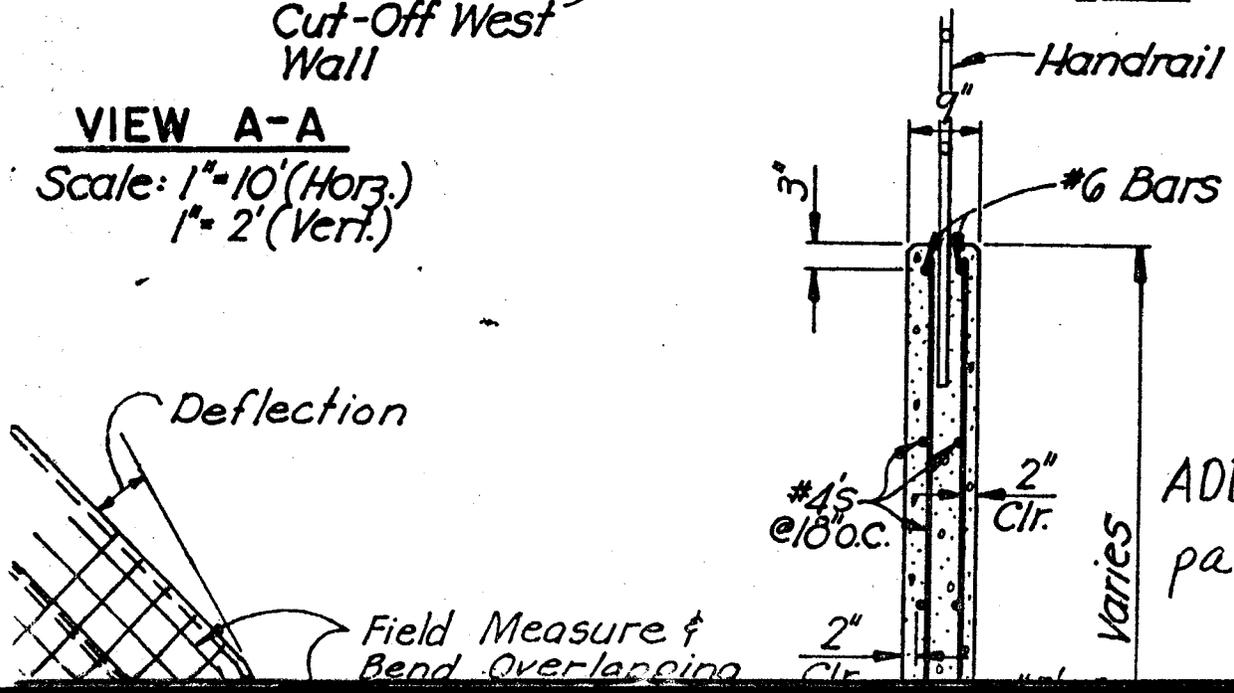
ADDENDUM 1 page 5

HEADWALL AT SUTTON DRIVE

Handrail A.D.O.T.
Detail B-22.30
Within 10' of
Street Curb

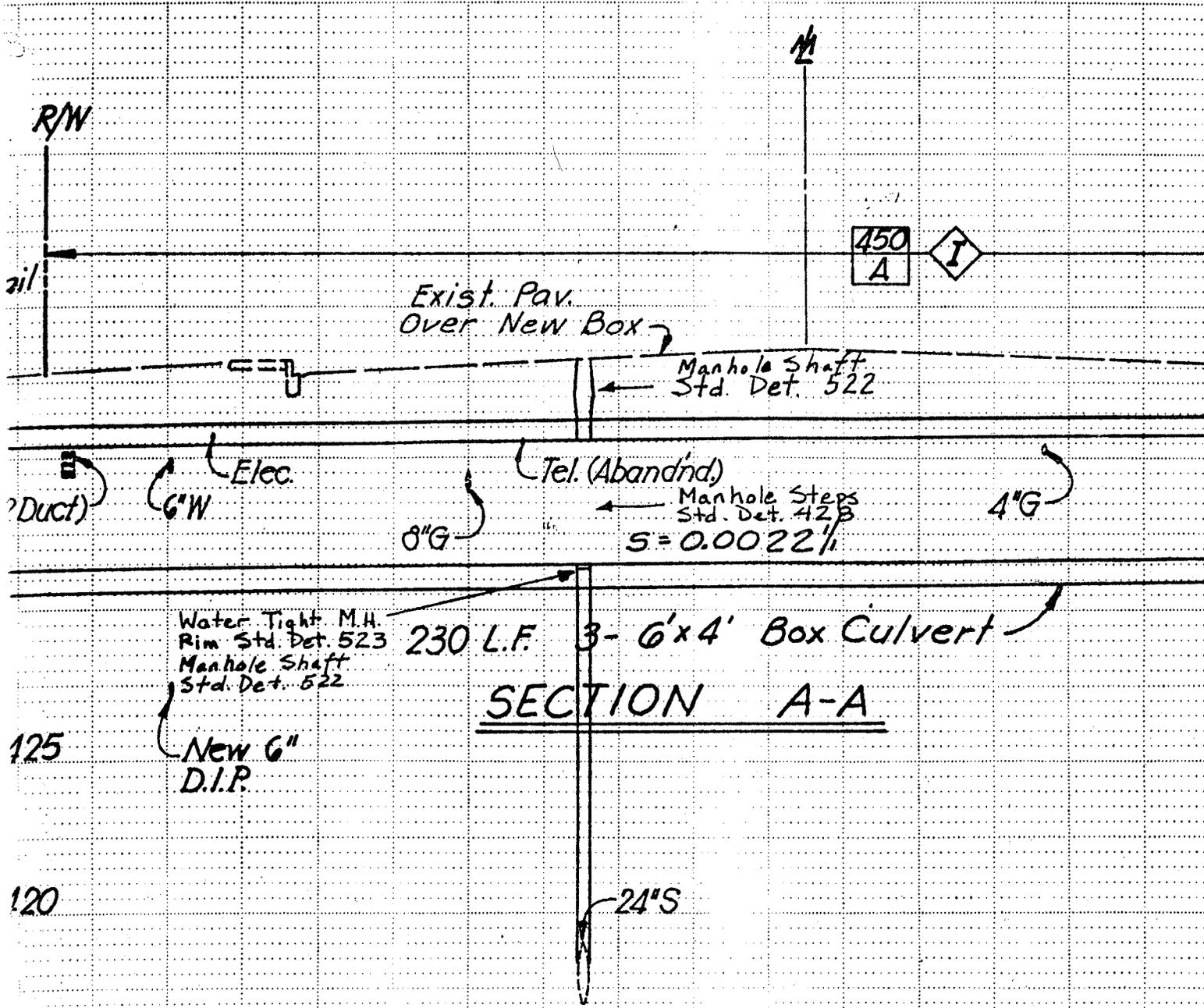


VIEW A-A
Scale: 1" = 10' (Horz.)
1" = 2' (Vert.)



ADDENDUM 1
page 6

12
**THUNDERBIRD
 INDUS. AIRPARK**



125
 120
 115
 110
 105

ADDENDUM I
 page 7

DATE	REVISION
	CITY OF SCOTTSDALE

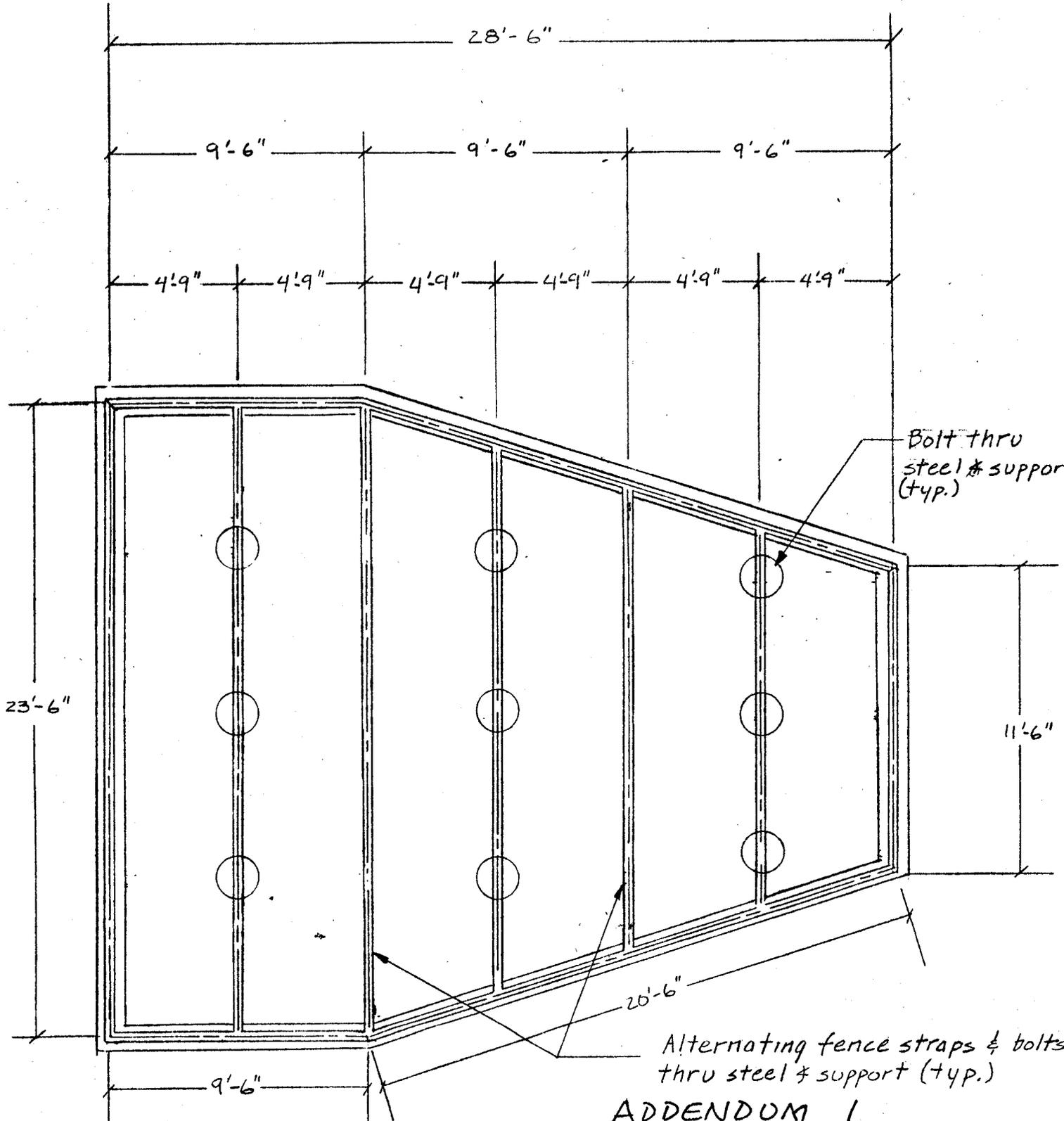
Two working days before you dig
 CALL FOR THE BLUE STAKES

PVSP DRAIN
 SCOTTSDALE ROAD - CACTUS B...

Chain Link Fence Grate Over 90" Outlet Structure Detail

Notes:

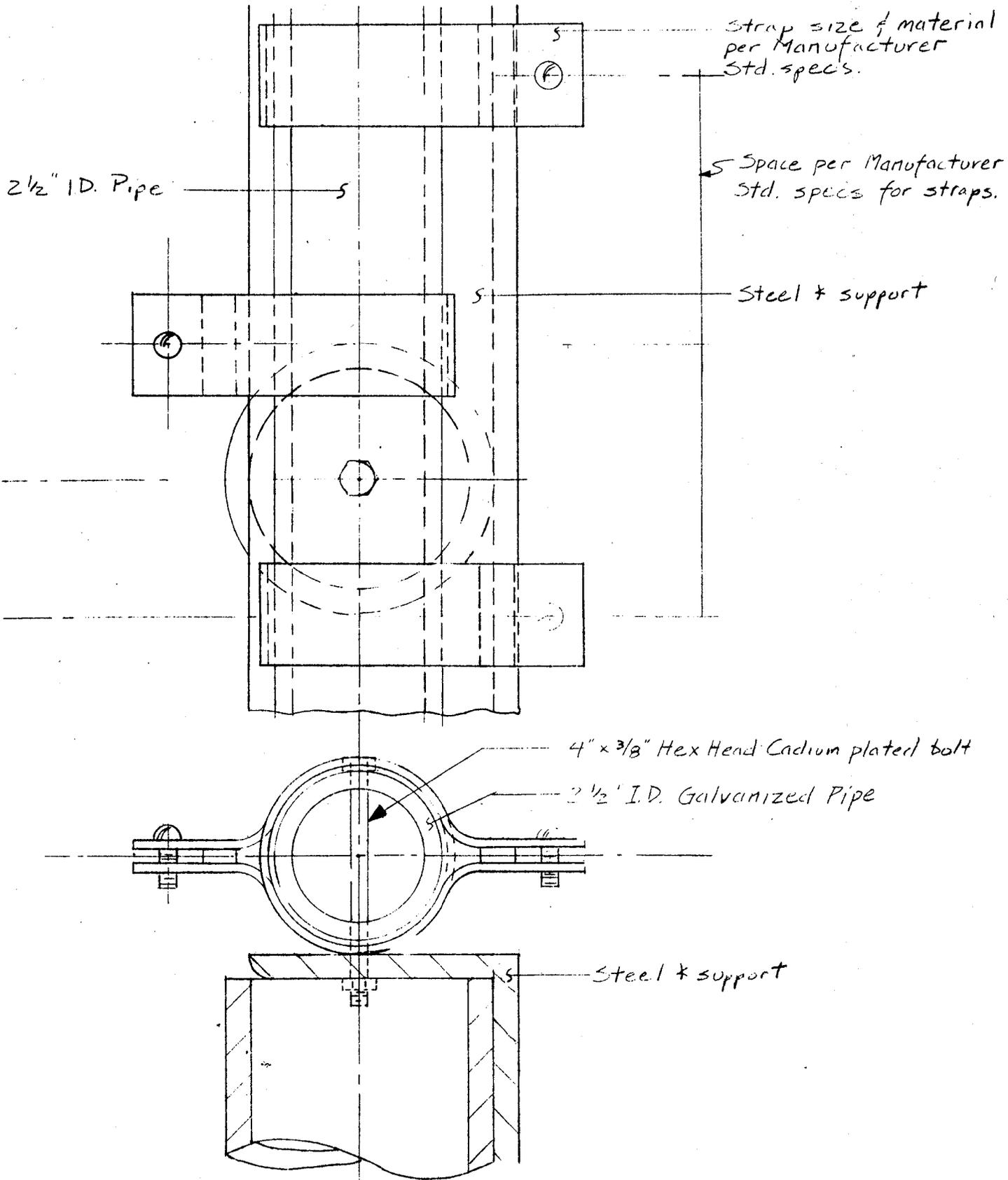
1. 9 Ga. x 10' W x 64 LF with fittings & clamps - Dura Bond Chain Link Fence or Equal.
2. 2 1/2 H.W. Galvanized Pipe x 192 ± LF.
3. 4" x 6" x 3/8" steel angle support under pipe frame not shown on this detail.
4. See separate detail for fittings, clamps, straps & bolts.



ADDENDUM 1

page 8

Fittings, Clamps, Straps & Bolt Detail





CITY OF SCOTTSDALE
BID CALL NO. 84-86
PROJECT NO. 8916

PVSP DRAINAGE SYSTEM
ADDENDUM NO. 2 MAY 30, 1984

The Specifications and Plans are hereby amended and/or clarified as follows:

SPECIFICATIONS

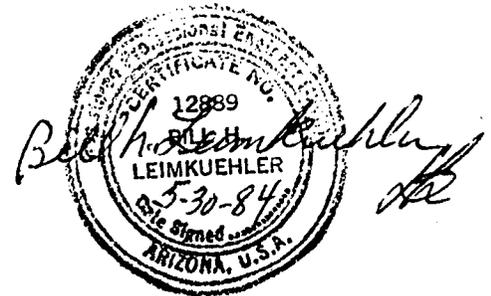
<u>Page/Paragraph</u>	<u>Correction</u>
27 4	At end of paragraph add the following sentence: "The Bid Award will be made to the contractor that submits the lowest total base bid."

PLANS

<u>Sheet #</u>	<u>Change</u>
14	Change note describing handrail on south side of Sutton that reads, "Install 170 LF Triple Rail Handrail ADOT Detail B-22.30 on Box Culvert Curb and Wing Walls," to "Install 170 LF Triple Rail Handrail on Box Culvert Curb and Wing Walls, See Detail Sheet #4."
31	Replace Page 8 of Addendum No. 1 with this detail, as shown on Page 2 of this Addendum.

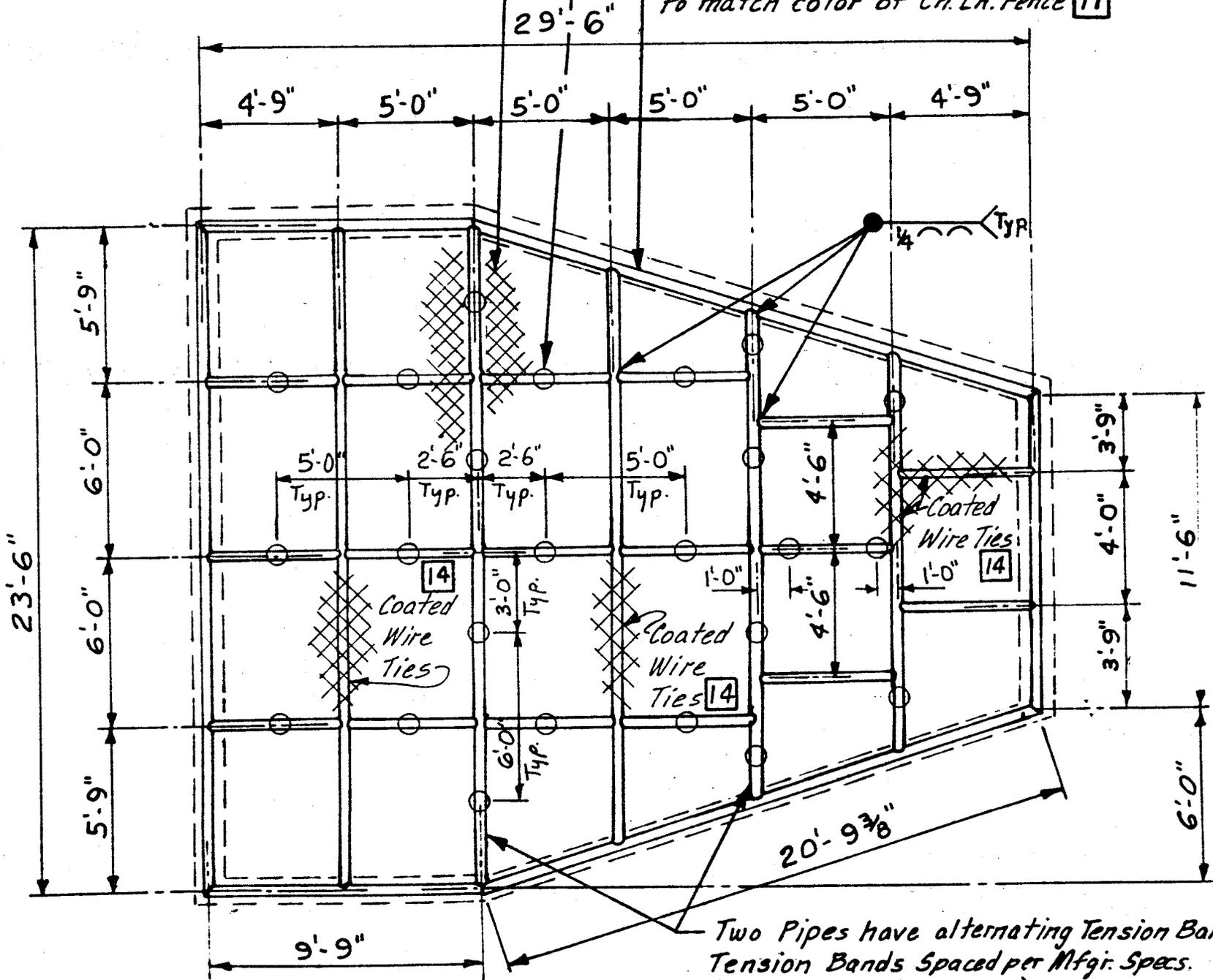
This addendum shall be stapled inside the front cover of the Project 8916 Specification Book and receipt acknowledged on Page 27.

John Conley
Purchasing Director
City of Scottsdale



13 9 Ga. x 2" x 10' Wide Dura-Bond or equal Chain Link Fence

All pipe to be min. 2 1/2" I.D. Galv. H.W. Pipe. To be painted to match color of Ch. Lk. Fence 11



Addendum No. 2
Page 2



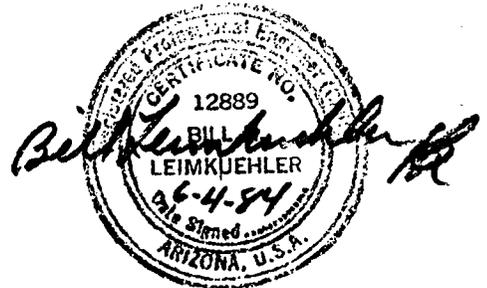
CITY OF SCOTTSDALE
BID CALL NO. 84-86
PROJECT NO. 8916
PVSP DRAINAGE SYSTEM
ADDENDUM NO. 3, JUNE 4, 1984

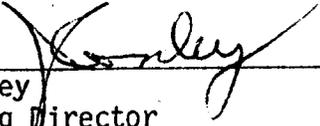
Addendum delivered by Special Delivery Mail this date.

ADDENDUM NO. 3

Use ink pen to change Proposal Bid Item No. 4.03 as follows: Line out quantity 213.7. Write in quantity 3035.

Accknowledge receipt on Page 27.





John Conley
Purchasing Director
City of Scottsdale

BID CALL 84-86
PROPOSAL

VWJ
2nd low Bidder

CITY OF SCOTTSDALE, ARIZONA
CAPITAL ENGINEERING

PROPOSAL TO THE CITY OF SCOTTSDALE:

In compliance with the Advertisement for Bids, by the Purchasing Director: The undersigned bidder

Having examined the contract documents, site of work, and being familiar with the conditions to be met, hereby submits the following Proposal for furnishing the material, equipment, labor and everything necessary for the completion of the work listed and agrees to execute the contract documents and furnish the required bonds and certificates of insurance for the completion of said work, at the locations and for the prices set forth hereinafter.

Understands that construction of this project shall be in accordance with all applicable Uniform Standard Specifications and Standard Details except as otherwise required by the Project Plans and Special Provisions.

Understands that his proposal shall be submitted with a proposal guarantee of cash, certified check, cashier's check or surety bond for an amount not less than (10%) Ten Percent of the Base Bid Amount.

Agrees that upon receipts of Notice of Award, from the City of Scottsdale, he will execute the contract documents.

Work shall be completed within one hundred fifty (150) calendar days, beginning with the day following the starting date specified in the Notice to Proceed. The time allowed for completion of the work includes lead time for obtaining the necessary material and/or equipment.

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

- #1 MAY 25, 1984
- #2 MAY 30, 1984
- #3 June 4, 1984 - By phone Neil Prescott

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
1.01	206.1	CY	Culvert Barrels @ B	230 ⁰⁰	TWO HUNDRED THIRTY \$ 30/100	47403 ⁻ 23403
1.02	14.6	CY	Culvert Outlet Headwall & Wings @ B	150 ⁰⁰	ONE HUNDRED FIFTY \$ 150/100	2190 ⁻
1.03	4.3	CY	Culvert Outlet Apron @ B	550 ⁰⁰	FIVE HUNDRED FIFTY \$ 550/100	2365 ⁻
1.04	14.7	CY	Culvert Inlet Headwall & Wings @ B	190 ⁰⁰	ONE HUNDRED NINETY \$ 190/100	2793 ⁻
1.05	114.9	CY	Culvert Barrels @ C	230 ⁰⁰	TWO HUNDRED THIRTY \$ 30/100	26427
1.06	17.3	CY	Culvert Outlet Headwall & Wings @ C	200 ⁰⁰	TWO HUNDRED \$ 100/100	3460
1.07	17.3	CY	Culvert Inlet Headwall & Wings @ C	215 ⁰⁰	TWO HUNDRED FIFTEEN \$ 150/100	3719 ⁵
1.08	55.0	CY	90" Pipe Outlet Headwall & Side Walls	230 ⁰⁰	TWO HUNDRED THIRTY \$ 30/100	12650
1.09	14.4	CY	90" Pipe Outlet Apron & Vertical Fins	500 ⁻	FIVE HUNDRED \$ 500/100	7200
1.10	1	LS	60" Pipe Stub in 90" Outlet Wall	1300 ⁻	ONE THOUSAND THREE HUNDRED \$ 1300/100	1300 ⁻
1.11	1	LS	48" Pipe Stub in 90" Outlet Wall	566 ⁻	566 FIVE HUNDRED SIXTY SIX \$ 566/100	566 ⁻

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
1.12	11.3	CY	48" Pipe Headwall & Wings (2 each) @ D	460 ⁰⁰	FIVE HUNDRED SIXTY & $\frac{100}{100}$	5198
1.13	24.8	CY	10 x 9 Box Culvert Entrance @ F	260 ⁰⁰	SIXTY TWO HUNDRED SIXTY & $\frac{100}{100}$	6448
1.14	22.3	CY	Headwall & Wings @ F	520 ⁰⁰	FIVE HUNDRED TWENTY & $\frac{100}{100}$	11576
1.15	140.9 142.4	CY	Culvert Barrels @ G	220 ⁰⁰	TWO HUNDRED TWENTY & $\frac{100}{100}$	31328
1.16	1	LS	8 Roadway Drains @ G	500 500	FIVE HUNDRED & $\frac{100}{100}$	500
1.17	36.5 35.5	CY	Outlet Headwall & Wings @ G	320 ⁰⁰	THREE HUNDRED TWENTY & $\frac{100}{100}$	11360
1.18	14.9	CY	Culvert Inlet Headwall & Wings @ G	290 ⁰⁰	TWO HUNDRED NINETY & $\frac{100}{100}$	4321
1.19	355.8	CY	Culvert Barrels @ I	240 ⁰⁰	TWO HUNDRED FORTY & $\frac{100}{100}$	85392
1.20	14.0	CY	Culvert Outlet Headwall & Wings @ I	220 ⁰⁰	TWO HUNDRED TWENTY & $\frac{100}{100}$	3080
1.21	20.7	CY	Culvert Inlet Headwall & Wings @ I	210 ⁰⁰	TWO HUNDRED TEN & $\frac{100}{100}$	4347
				240 ⁰⁰		

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
2.01	238	SY	Gunite Apron @ G & 48" Pipe Inlet	20 ⁻	Twenty & $\frac{NO}{100}$	4760 ⁻
2.02	1924	SY	Gunite Slopes Exposed Surface	20 ⁻	Twenty & $\frac{NO}{100}$	38480 ⁻
2.03	356	SY	Gunite Slope Tie Down or Cut-Off Walls	17 ⁻	seventeen & $\frac{NO}{100}$	6052 ⁻
2.04	1805	SY	4" Bomanite Surface	50 ⁻	FIFTY & $\frac{NO}{100}$	90250
2.05	10	SY	6" Bomanite Driveway @ B	50 ⁻	FIFTY & $\frac{NO}{100}$	500
2.06	514	SY	Bomanite Slope Tie Down or Cut-Off Walls	36 ⁻	THIRTY SIX & $\frac{NO}{100}$	18504 ⁻
2.07	886	SY	Gabions on Bank @ H	40 ⁻	Forty & $\frac{NO}{100}$	35440
2.08	$\frac{1}{2}$	LS	Gabion Repair @ F & G (TWO LOCATIONS)	1936 ⁻	one thousand nine hundred thirty six & $\frac{NO}{100}$	1936
2.09	1225	SY	Burried Rock Protection w/Plastic Mat @ A,B,D,H	14 ⁻	fourteen & $\frac{NO}{100}$	17150

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
3.01	1572	LF	90" Pipe D to F	160 ⁰⁰	SIXTY FOUR $\frac{160}{100}$	251520
3.02	915	LF	60" Pipe at D	110 ⁰⁰	ONE HUNDRED TEN $\frac{110}{100}$	100650
3.03	780	LF	48" Pipe at D	110 ⁰⁰	ONE HUNDRED TEN $\frac{110}{100}$	85800
3.04	1	LS	60" Pipe Connection	7,800 ⁰⁰	SEVEN THOUSAND EIGHT HUNDRED $\frac{7800}{100}$	7800
3.05	$\frac{1}{2}$	LS	MH in 90" Pipe (TWO LOCATIONS)	2,011 ⁰⁰	TWO THOUSAND ELEVEN $\frac{2011}{100}$	2011 ⁰⁰
3.06	$\frac{1}{2}$	LS	MH in 60" Pipe (TWO LOCATIONS)	1,950 ⁰⁰	ONE THOUSAND NINE HUNDRED FIFTY $\frac{1950}{100}$	1950 ⁰⁰
3.07	214	LF	15" RGRCP Class IV at B, C	38 ⁰⁰	THIRTY EIGHT $\frac{38}{100}$	8132 ⁰⁰
3.08	26	LF	15" RGRCP Class III at G	39 ⁰⁰	THIRTY NINE $\frac{39}{100}$	1014 ⁰⁰
3.09	42	LF	12" RGRCP Class III at G	36 ⁰⁰	THIRTY SIX $\frac{36}{100}$	1512 ⁰⁰
3.10	90	LF	12" RGRCP Class IV at G	33 ⁰⁰	THIRTY THREE $\frac{33}{100}$	2970 ⁰⁰
3.11	54	LF	24" Pipe RCP Class III connections to catch basins at E	41 ⁰⁰	FOURTY ONE $\frac{41}{100}$	2214 ⁰⁰

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
3.12	1	LS	27 x 43 ACMP @ D	840 ⁰⁰	Eight Hundred Forty & ⁰⁰ / ₁₀₀	840 ⁰⁰
3.13	1	LS	12" CMP Galvanized End Section	80 ⁰⁰	Eighty & ⁰⁰ / ₁₀₀	80 ⁰⁰
3.14	3	EA	Flap Gate & Chamber at G (12")	840 ⁰⁰	Eight Hundred Forty & ⁰⁰ / ₁₀₀	2520 ⁰⁰
3.15	1	LS	Flap Gate & Chamber at G (15")	2270	Two Thousand Two Hundred Seventy & ⁰⁰ / ₁₀₀	2270 ⁰⁰
3.16	4	EA	Catch Basin Det. 531 at B, C, F	1160 ⁰⁰	One thousand one Hundred sixty & ⁰⁰ / ₁₀₀	4640 ⁰⁰
3.17	1	EA	Catch Basin Det. 535 W/Grate at E	1960 ⁰⁰	One thousand nine Hundred sixty & ⁰⁰ / ₁₀₀	1960 ⁰⁰
3.18	4	EA	Catch Basin Det. 530 at G	1100	One thousand one Hundred & ⁰⁰ / ₁₀₀	4400 ⁰⁰
3.19	2	EA	Catch Basin Det 532	2850 ⁰⁰	Two thousand Eight Hundred Fifty & ⁰⁰ / ₁₀₀	5700 ⁰⁰
4.01	171,137 158,661	CY	Excavation in Open Areas	407 407	Four dollars and 7/100 Four dollars and 7/100	69,521 69,521
4.02	305	CY	Excavation in Small Areas D, E, G	8 ⁰⁰	Eight & ⁰⁰ / ₁₀₀	2440 ⁰⁰
4.03	213.7 3035	CY	Excavation for Structures	230	Two & 30/100	700 6980 ⁰⁰

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
4.04	399	CY	Fill Bank (Gold Dust to Berneil Ditch)	2. ⁰⁰	Two & ⁰⁰ /100	798. ⁰⁰
4.05	80	CY	Fill Silt Trap Dike at D	3-	Three & ⁰⁰ /100	240. ⁰⁰
5.01	670	LF	Sawcut Edges of Pavement & Concrete	0. ⁹⁰	Ninety Cents	603. ⁰⁰
5.02	6,024	SY	Subgrade Preparation	2. ⁰⁰	Two & ⁰⁰ /100	12048. ⁰⁰
5.03	1,599	SY	4" ABC Road on Ditch Bank	2. ⁰⁰	Two & ⁰⁰ /100	3198. ⁰⁰
5.04	1,592	SY	12" ABC On Scottsdale	5. ⁶⁰	Five & ⁶⁰ /100	8915. ²⁰
5.05	1,592	SY	3" AC Type B1 on Scottsdale	6. ⁰⁰	Six & ⁰⁰ /100	9552. ⁰⁰
5.06	1,592	SY	1" AC Type D1/2 on Scottsdale	2. ⁰⁰	Two & ⁰⁰ /100	3184. ⁰⁰
5.07	2,507	SY	3" C3/4 AC on 8" ABC at B, C, E, F	12. ⁰⁰ Kil Twelve	Twelve & ⁰⁰ /100	30084. ⁰⁰
5.08	308	SY	2" C3/4 AC on 4" ABC Driveway @ B, C	10. ⁰⁰	Ten & ⁰⁰ /100	3080. ⁰⁰
5.09	23	SY	Pavement replacement over pipe @ F	14. ⁰⁰	Fourteen & ⁰⁰ /100	322. ⁰⁰

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
5.10	344	LF	Thickened AC Edge, Det. 201-B	1. ⁰⁰	One & ⁰⁰ / ₁₀₀	344. ⁰⁰
5.11	170	LF	6" x 6" AC Curb @ B	2. ⁵⁰	Two & ⁵⁰ / ₁₀₀	425. ⁰⁰
5.12	88	LF	6" Single Curb @ B, C	9. ⁰⁰	Nine & ⁰⁰ / ₁₀₀	792. ⁰⁰
5.13	1,241	LF	6" VC & G @ B, C, E, F, I	8. ⁰⁰	Eight & ⁰⁰ / ₁₀₀	9928. ⁰⁰
5.14	2,929	SF	Conc. VG & Aprons at B, I	1. ⁵⁰	One & ⁵⁰ / ₁₀₀	4393. ⁵⁰
5.15	2,334	SF	Conc. S/W & Ramps at B, C, I	1. ⁵⁰	One & ⁵⁰ / ₁₀₀	3501. ⁵⁰
5.16	5,798	SF	8' Conc. Bike Path	1. ³⁰	One & ³⁰ / ₁₀₀	7537. ⁵⁰
5.17	2	EA	Survey Monument at I	95. ⁰⁰	Ninety Five & ⁰⁰ / ₁₀₀	190. ⁰⁰
5.18	1	LS	6" ABC Detour Construction & Removal	4500. ⁰⁰	Four thousand Five Hundred & ⁰⁰ / ₁₀₀	4500. ⁰⁰
6.01	220	LF	Lower 12" D.I.P. waterline and fittings @ B & I	46. ⁰⁰	Forty Six & ⁰⁰ / ₁₀₀	10120. ⁰⁰
6.02	66	LF	8" D.I.P. Waterline & Fittings @ B	46. ⁰⁰	Forty Six & ⁰⁰ / ₁₀₀	3036. ⁰⁰

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
6.03	220	LF	Lower 6" D.I.P. Waterline & Fittings @ C, I	29 ⁰⁰	Twenty nine ⁰⁰ /100	6380 ⁰⁰
6.04	1	LS	Lower Water Service Under Channel @ I	1900 ⁰⁰	One thousand nine hundred ⁰⁰ /100	1900 ⁰⁰
6.05	4	EA	12" V.B. & C. Type C	260 ⁰⁰	Two hundred sixty ⁰⁰ /100	1040 ⁰⁰
6.06	1	EA	8" V.B. & C. Type C	478 ⁰⁰	Four hundred seventy eight ⁰⁰ /100	478 ⁰⁰
6.07	3	EA	6" V.B. & C. Type C @ C, I	341 ⁰⁰	Three hundred forty one ⁰⁰ /100	1023 ⁰⁰
6.08	$\frac{1}{2}$	LS	Reset F.H. w/V.B. & C. @ F & I (TWO LOCATIONS)	1285 ⁰⁰	One thousand two hundred eighty five ⁰⁰ /100	1285 ⁰⁰
6.09	1	LS	Connect 4" VCP Sewer to M. H. @ H	164 ⁰⁰	One hundred sixty four ⁰⁰ /100	164 ⁰⁰
6.10	115	LF	4" Sewer Connection	22 ⁰⁰	Twenty two ⁰⁰ /100	2530 ⁰⁰
6.11	$\frac{1}{2}$	LS	4" Sewer Clean Outs at I (TWO LOCATIONS)	310 ⁰⁰	Three hundred ten ⁰⁰ /100	310 ⁰⁰
6.12	1	LS	AND STEPS M.H. Shaft & Cover Over Culvert @ I	1270 ⁰⁰	One thousand two hundred seventy ⁰⁰ /100	1270 ⁰⁰
6.13	1	LS	M.H. Rim & Water Tight Cover Inside Culvert @ I	1950 ⁰⁰	One thousand nine hundred fifty ⁰⁰ /100	1950 ⁰⁰

TOTAL BASE BID _____ DOLLARS

CONTRACTOR'S NAME JWJ Contracting Co., Inc.

_____ CENTS

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
7.01	3,964	SY	Remove AC Street or D/W Pavement @ B, C, E & F	<u>0.80</u>	EIGHTY CENTS	3171. ²⁰
7.02	1,166	LF	Remove Conc. Curb/Curb & Gutter @ B,C,E,F, I	<u>0.65</u>	SIXTY FIVE CENTS	757. ⁹⁰
7.03	2,713	SF	Remove Conc. V.G./Apron/Driveway @ B,C,E,F	<u>0.30</u>	THIRTY CENTS	813. ⁹⁰
7.04	1,978	SF	Remove Conc. S/W @ B, C, I	<u>0.20</u>	Twenty Cents	395. ⁶⁰
7.05	1	LS	Remove Sump Pump & PVC Pipe @ B	<u>25.⁰⁰</u>	Twenty Five Dollars	25. ⁰⁰
7.06	1,379 <u>1,424</u>	SY	Remove Gunite Channel Lining @ B, C, F, G, ^{NE CORNER} & ^{SD}	<u>2.²⁵</u>	two Dollars & 25/100	3204. ⁰⁰
7.07	1	EA	Remove End of 12" Pipe & Headwall @ C	<u>100.⁰⁰</u>	One Hundred & 00/100	100. ⁰⁰
7.08	1	LS	Remove 72" Conc. Culvert, Headwalls & Handrails @ C	<u>4000.⁰⁰</u>	Four thousand & 00/100	4000. ⁰⁰
7.09	293	LF	Remove 6' Block Wall	<u>2.²⁰</u>	two & 20/100	644. ⁶⁰
7.10	1	LS	Remove Gabions @ F, G	<u>1600.⁰⁰</u>	ONE THOUSAND SIX HUNDRED & 00/100	1600. ⁰⁰
7.11	190	LF	Remove 12" CMP @ F	<u>9.⁵⁰</u>	NINE & 50/100	1805. ⁰⁰
7.12	1 <u>258</u>	LS	Construct 6' Block Wall 258 LF	<u>13,000.⁰⁰</u>	Thirteen thousand & 00/100	13,000. ⁰⁰

TOTAL BASE BID _____ DOLLARS

CONTRACTOR'S NAME JWT Contracting Co., Inc.

_____ CENTS

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
7.13	1	LS	Relocate Sign @ F	560 ⁰⁰	Five hundred sixty & ⁰⁰ / ₁₀₀	560 ⁰⁰
7.14	703	LF	Handrails	30 ⁰⁰	thirty & ⁰⁰ / ₁₀₀	21,090 ⁰⁰
7.15	1	LS	Top Gate on 90" Outlet Structure	6700 ⁰⁰	Six thousand seven hundred & ⁰⁰ / ₁₀₀	6700 ⁰⁰
7.16	1	LS	90" Pipe Inlet Barrier Gate & Latch	1800 ⁰⁰	One thousand eight hundred & ⁰⁰ / ₁₀₀	1800 ⁰⁰
7.17	1	LS	48" Pipe Trash Racks (2 LOCATIONS)	1000 ⁰⁰	One thousand & ⁰⁰ / ₁₀₀	1000 ⁰⁰
7.18	1	LS	Miscellaneous Work	3300 ⁰⁰	Three thousand three hundred & ⁰⁰ / ₁₀₀	3300 ⁰⁰
7.19	1	LS	Miscellaneous Landscape Work	9000 ⁰⁰	Nine thousand & ⁰⁰ / ₁₀₀	9000 ⁰⁰
7.20	1	LS	Traffic Control	14500 ⁰⁰	FOURTEEN THOUSAND FIVE HUNDRED & ⁰⁰ / ₁₀₀	14,500 ⁰⁰
7.21	1	LS	Striping	375 ⁰⁰	Three hundred seventy five & ⁰⁰ / ₁₀₀	375 ⁰⁰
7.22	1	LS	Traffic Signal Relocation @ F	13,750 ⁰⁰	THIRTEEN THOUSAND SEVEN HUNDRED FIFTY & ⁰⁰ / ₁₀₀	13,750 ⁰⁰
7.23	1	LS	Traffic Signal Relocation @ I	16,250 ⁰⁰	SIXTEEN THOUSAND TWO HUNDRED FIFTY & ⁰⁰ / ₁₀₀	16,250 ⁰⁰

ONE MILLION EIGHT HUNDRED EIGHTY TWO THOUSAND
TOTAL BASE BID EIGHT HUNDRED THIRTY TWO DOLLARS

CONTRACTOR'S NAME JWJ Contracting Co., Inc.

FIFTY SEVEN ⁵⁷/₁₀₀ CENTS

1,822,832.57

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
8.01	2,329 2319	SY	Gabions to replace Bomanite EXCEPT 6" THICK DRIVEWAY 2' W	43. ⁰⁰	Forty three & 00/100	99,717
8.02	1	LS	Exposed Aggregate Wall Surface Treatment	9200. ⁰⁰	Nine thousand two Hundred & 00/100	9200
8.03	1,805	S.Y.	EXPOSED COARSE AGGREGATE CONCRETE TO REPLACE BOMANITE SURFACE	21. ⁰⁰	twenty one & 00/100	37,905
8.04	514	S.Y.	COARSE AGGREGATE CONCRETE TO REPLACE BOMANITE SLOPE TIE-DOWN OR CUT-OFF WALLS.	34. ⁰⁰	THIRTY FOUR & 00/100	17,476

TWO MILLION FORTY SEVEN THOUSAND
 TOTAL ALTERNATE BID EXPENDED 92,124 DOLLARS

CONTRACTOR'S NAME JWS Contracting Co., Inc.

FIFTY SEVEN CENTS

\$ 2,247,130.57

BID CALL #84-86

PROPOSAL

THIS PROPOSAL IS SUBMITTED BY JWJ Contracting Company, Inc.
a corporation organized under the laws of the State of Arizona,
a partnership consisting of _____
or individual trading as _____
of the City of Phoenix

By submitting this proposal I (or we) hereby agree to enter into the Contract included in the bid documents and I (or we) further agree that this proposal incorporates by reference to the same extent as if set forth herein in full all of the terms and conditions contained in said bid documents identified as BID CALL NO. 84-86, PROJECT NO. 8916, including Plans, Standard Specifications and Details, Project Manuals, Special Provisions, Addenda, if any, Performance Bond, Payment Bond and Certificates of Insurance.

Respectfully submitted,

FIRM: JWJ Contracting Co. Inc.
ADDRESS: 4525 E. University
Phoenix AZ 85034
TEL. NO.: (602) 967-7815

DATE: June 5, 1984

BY: [Signature]
OFFICER AND TITLE SECRETARY (SEAL)

ATTEST: [Signature]
OFFICER AND TITLE PRESIDENT

WITNESS: IF BIDDER IS AN INDIVIDUAL



MAY 15, 1984
PRE-BID MEETING NOTICE
BID CALL 84-86, PROJECT NO. 8916

PLEASE ATTEND A MEETING TO DISCUSS THE PVSP DRAINAGE SYSTEM PROJECT. THE MEETING WILL BE HELD WEDNESDAY, MAY 23, 1984, BEGINNING AT 10:00 A.M. IN THE KIVA, LOCATED IN CITY HALL, 3939 CIVIC CENTER PLAZA, SCOTTSDALE, ARIZONA.

REPRESENTATIVES FROM THE UTILITY COMPANIES WILL BE PRESENT AT 9:15 A.M. FOR A FINAL REVIEW OF ALL UTILITY RELOCATIONS. REPRESENTATIVES FROM THE UTILITY COMPANIES, THE CITY AND THE FLOOD CONTROL DISTRICT WILL DISCUSS DETAILS AND ANSWER QUESTIONS FROM THE CONTRACTORS BEGINNING AT 10:00 A.M. FOR THE CULVERT AND DRAINAGE SYSTEM ON THE EAST SIDE OF SCOTTSDALE ROAD FROM THUNDERBIRD TO CACTUS AND THE CULVERTS AND DRAINAGE SYSTEM AT 71ST STREET UNDER COCHISE, GOLD DUST AND THE DITCH TO MOUNTAIN VIEW (BERNEIL CHANNEL).

CALL ANNETTE GROVE AT 994-2399 FOR INFORMATION ON THE PROJECT PRIOR TO THE MEETING.

cc: John Short, APS
Steve Hollinger, Mountain Bell
Ed Raleigh, Flood Control District
Pat Neal
Dick Schaner
Ray Garrison
Bill Mead
Mario Saldamando

FLOOD CONTROL DISTRICT
RECEIVED

MAY 17 '84

CH ENG	HYDRO
ASST	LMgt
ADMIN	SUSP
C & O	FILT
<i>[Signature]</i>	DESTROY
FINANCE	2 EAR
REMARKS	

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916 (F5502) TITLE: PVSP DRAINAGE SYSTEM
 CONTRACT NO. _____ CONTRACT DATED: 7/2/85
 CHANGE ORDER NO. 11 PAGE 1 OF _____ PAGES
 TO: (Contractor) _____

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

- At Residence, 10610 North 82nd Place, spread and compact clean fill material to fill in eroded areas; place, spread and compact 2" + decomposed granite; and spray with soil steralant (surflan, dacthal or equal). Place river rock in swale between landscaped mounds from driveway to drainage ditch (see attached drawing).

\$4450

- At Residence, south east corner of Scottsdale and Sutton, place. 10-15 gallon oleanders and make repairs to sprinkler system.

\$ 800

TOTAL \$5,250.00

The Original Contract Sum Was.....	\$ 1,777,972.25
Net Change by Previous Change Orders.....	\$ 92,450.00
The Contract Sum Prior to This Change Order Was.....	\$ 1,870,422.25
The Contract Sum Will be (Increased) by This Change Order.....	\$ 5,250.00
The New Contract Sum, Including This Change Order Will Be.....	\$ 1,875,672.25

The Contract time Will Be (Increased) By..... 7 days
 The Date of Completion as of This Date of This Change Order
 Therefore is. (Contingent upon rain days allowed to date)..... March 25, 1985

ACCEPTED BY:
Michael Stone
 C. S. Construction

 22023 North 20th Avenue

 Phoenix, Arizona 85027

RECOMMENDED BY
 CITY OF SCOTTSDALE
Ed Villa 4-8-85
 FIELD ENGINEERING MGR./Date
Annita Jones 4/10/85
 PROJECT COORDINATOR/Date
Bellh Lumbuelh 4-10-85
 CAPITAL ENGINEERING MGR/Date

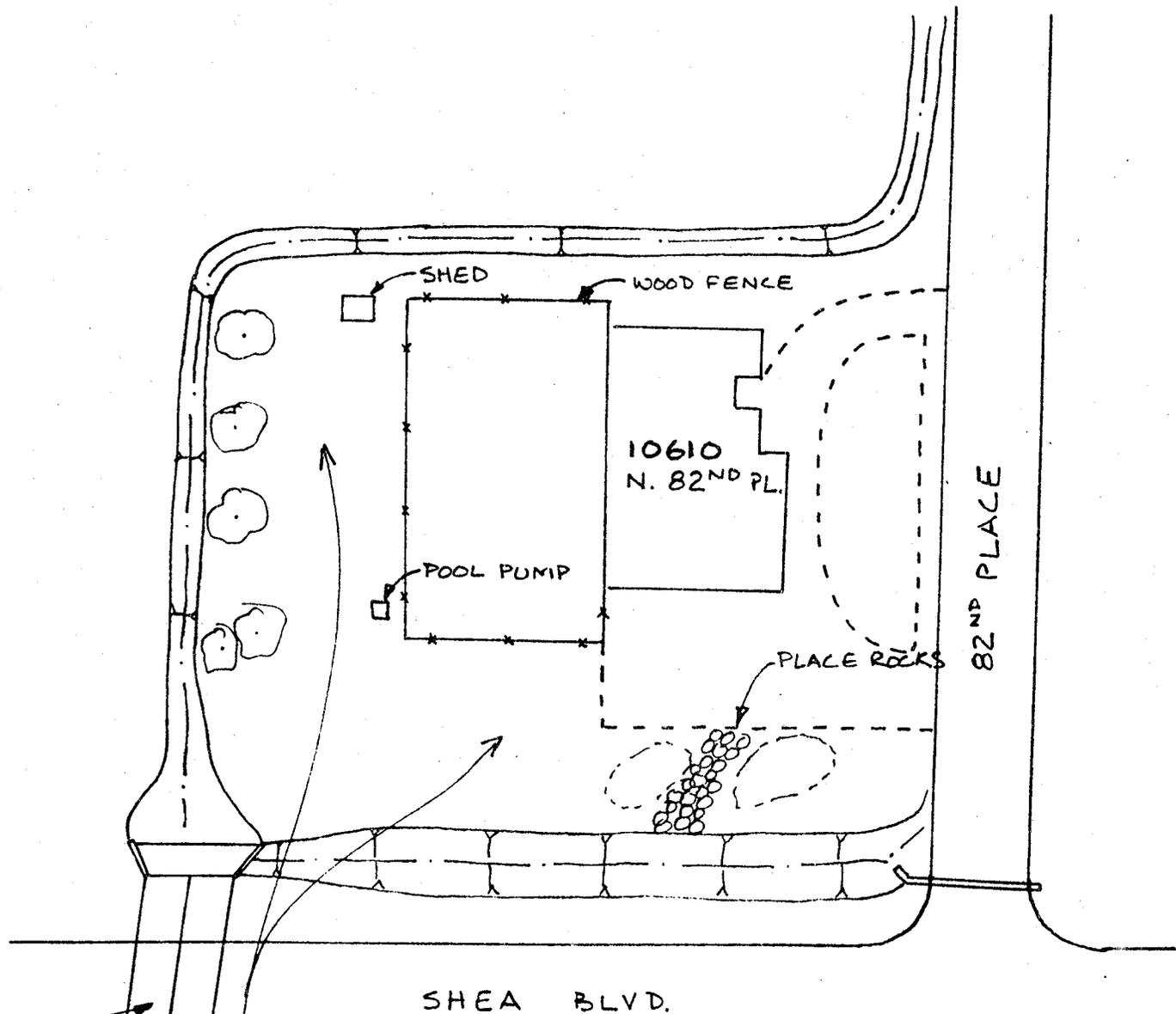
APPROVED BY
 CITY OF SCOTTSDALE
Dick Schaner 4/17/85
 PUBLIC WORKS ADMIN./Date
JPD 4/17/85
 COMM. DEV DEPT./Date
JPD 4/17/85
 CITY MANAGER/Date

BY: _____
 DATE: _____

St. N. Smith 4-10-85
 TRANSPORTATION DIR./Date
 AS TO FUND AVAILABILITY:
St. N. Smith
 FINANCE DIRECTOR/date
 (Required if over \$500.00)

OTHER AGENCIES

 FOR: _____



SHEA BLVD.

BOX CULVERT

PLACE FILL AND DECOMPOSED GRANITE



PVSP DRAINAGE SYSTEM
 CHANGE ORDER NO. 11
 PROJECT 8916 (FSS02)

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 4/2/85 PROJECT TITLE PVSP DRAINAGE SYSTEM

PROJECT NO. 08916 (F5502) PROPOSED C/O NO. 11

BRIEF DESCRIPTION OF CHANGE ORDER:

Repairs to eroded areas caused by Shea Blvd. Widening project, as directed by Dick Schaner. Repairs to landscaping damaged during construction of box culvert and wing walls at Sutton and Scottsdale.

EFFECT ON CONTRACTOR COST: \$5,250.00 Increase TIME: 7 Days

JUSTIFICATION:

The Residence at 82nd Place and Shea experienced heavy erosion in the front, side and back yard areas. Prior Change Order No. 3 repaired the drainage channel and erosion at the inlet to the box culvert. This will replace eroded areas and return to prior conditions, per Dick Schaner's directive. This item will be charged to the Shea Blvd. account.

The Residence at Sutton and Scottsdale experienced damage to the existing oleander hedge and sprinkler system, that was not anticipated in the plans and specifications.

ALTERNATIVES:

SUBMITTED BY: Annette Grove



FLOOD CONTROL DISTRICT
RECEIVED

NOV 03 '84

CH ENG	HYDRO
ASST	LMgt
ADMIN	SUSP
C & O	FILE
ENGR	DESTROY
FINANCE	
REMARKS	

TO: Maricopa County Flood Control
3335 W. Durango
Phoenix, Az 85009

DATE: 11/7/84
SUBJECT: PRSP Drainage

ATTEN: Ed Ralieg

PROJECT NO: 8916

THE FOLLOWING ITEMS ARE TRANSMITTED: HEREWITH
UNDER SEPARATE COVER

COPIES	DESCRIPTION
1	Change Order No. 3

THE ABOVE ITEMS ARE SUBMITTED:

At Your Request For Your Review For Your Information
 For Your Approval For Your Action Return Corrected Prints
 For Corrections For Your Use Return Check Prints

Remarks: The City will pay full share for the 3 areas of erosion protection (\$1,000). The large cost mainly is for structural excavation.
 Please call if you have any questions.

Enclosure (s) _____

Copies To:

Signed: Amanda Grove
 Capital Improvements Engineering

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916
 CONTRACT NO. _____
 CHANGE ORDER NO. 3
 TO: (Contractor) _____

TITLE: PVSP Drainage System
 CONTRACT DATED: July 11, 1984
 PAGE 1 OF 2 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

Erosion protection per the following:

- Inlet to box culvert on Shea Blvd. between Sundown Dr. and Country Club Dr. - place 12" + rock in eroded area, fill voids with dirt and water settle and cover with 6" dirt and miramat erosion protection to cover rocks & to conform to original berm detail (see Attachment No. 1)

T+M
 LUMP SUM \$ 2,500.00

- Inlet to box culvert on Shea Blvd. just west of 82nd Pl. - place 12" + rock in eroded area and under exposed wing wall, fill voids with dirt & water settle for compaction and reshape drainage ditch. (See Attach. No. 2)

T+M
 LUMP SUM \$ 2,500.00

The Original Contract Sum Was.....	\$ 1,777,972.25
Net Change by Previous Change Orders.....	\$ (8,374.00)
The Contract Sum Prior to This Change Order Was.....	\$ 1,769,598.25
The Contract Sum Will be (increased) by This Change Order.....	\$ 66,558.50
The New Contract Sum, Including This Change Order Will Be.....	\$ 1,836,156.75

The contract time Will Be (increased) By..... 18 Days
 The date of completion as of This Date of This Change Order
 Therefore is..... 7 January 1985

ACCEPTED BY:

C. S. Construction

8290 N. 75th Ave.

Peoria, AZ 85345

BY: Michael J. Borden

DATE: 10-19-84

RECOMMENDED BY
 CITY OF SCOTTSDALE

Robert J. Durbese 10/23
 FIELD ENGINEERING MGR./Date

Annita Greene 10/24
 PROJECT COORDINATOR/Date

Bill Holmbeck 10/29/84
 CAPITAL ENGINEERING MGR./Date

R. J. Harrison 11/1/84
 TRANSPORTATION DIR./Date

AS TO FUND AVAILABILITY:
B. Sembrini
 FINANCE DIRECTOR/date

APPROVED BY
 CITY OF SCOTTSDALE

Dick Schaner 11-2-84
 PUBLIC WORKS ADMIN./Date

[Signature]
 COMM. DEV. DEPT./Date

[Signature]
 CITY MANAGER/Date

OTHER AGENCIES

FOR: _____

FLW

CITY OF SCOTTSDALE

TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER



PROJECT NO: 08916 TITLE: PVSP Drainage System
 CONTRACT FOR: _____ CONTRACT DATED: 7/11/84
 CHANGE ORDER: 3 PAGE 2 OF 3 PAGES
 TO: ()

YOU ARE TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

- Inlet to box culvert on Scottsdale Rd. at McCormick Parkway - place 12" + rock in eroded areas, behind culvert wing walls, level with natural slope adjacent to eroded areas (see attachment No. 3).

T+M
~~LUMP SUM~~ \$ 6,000.00

DELETIONS

ITEM NO.	DESCRIPTION	UNIT	TOTAL
2.02	1924 SY Gunite Slopes Exposed Surface	@ \$20/SY	(\$38,480.00)
2.03	356 SY Gunite Slope Tie Down	@ 20/SY	(7,120.00)
3.02	915 LF 60" Pipe	@ 75/LF	(68,625.00)
4.03	3035 CY Excavation for Structures	@ 35/CY	(106,225.00)
5.01	670 LF Sawcut Edges of Pavement & Concrete	@ 10/LF	(6,700.00)
5.05	1592 SY 3" AC Type B1	@ 5/SY	(7,960.00)
5.07	2507 SY 3" C3/4 on 8" ABC	@ 11/SY	(27,577.00)
5.08	308 SY 2" C3/4 on 4" ABC	@ 7/SY	(2,156.00)
5.15	2334 SF Concrete S/W	@ 2/SF	(4,668.00)
7.06	1424 SY Remove Gunite Channel Lining	@ 1/SY	(1,424.00)
TOTAL DELECTIONS			(\$270,935.00)

ADDITIONS

2.02	2107 SY Gunite Slopes Exposed Surface (See Attachment No. 4)	@ \$20/SY	\$42,140.00
2.03	373 SY Gunite Slope Tie Down	@ 20/SY	7,460.00
3.02	989 LF 60" Pipe	@ 75/LF	74,175.00
4.03	4164 CY Excavation for Structures (see Attachment No. 5)	@ 35/CY	145,740.00
5.01	1075 LF Sawcut Edges of Pvmt. & Concrete	@ 10/LF	10,750.00
5.05	1592 SY 3" AC Type B1	@ 4.50/SY	7,164.00
5.07	2507 SY 3" C3/4 on 8" ABC	@ 10.50/SY	26,323.50
5.08	308 SY 2" C3/4 on 4" ABC	@ 6.50/SY	2,002.00
5.15	3096 SF Concrete S/W (See Attach. No. 6)	@ 2/SF	6,192.00
ew Item 5.19	588 LF Sawcut Edges of Pvmt. & Concrete	@ 5/LF	2,940.00
7.06	1607 SY Remove Gunite Channel Lining	@ 1/SY	1,607.00
TOTAL ADDITIONS			326,493.50

1.	Erosion Protection at Berm on Shea Blvd.	\$ 2,500.00
2.	Erosion Protection at Box Culvert at 82nd Pl. & Shea	\$ 2,500.00
3.	Erosion Protection at Box Culvert at Scottsdale & McCormick	\$ 6,000.00
4.	Total Deletions	\$(270,935.00)

CITY OF SCOTTSDALE

TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER



PROJECT NO: 08916
CONTRACT FOR: _____
CHANGE ORDER: 3
TO: ()

TITLE: PVSP Drainage System
CONTRACT DATED: 7/11/84
PAGE 3 OF 3 PAGES

YOU ARE TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

5. Total Additions		<u>326,493.50</u>
	TOTAL	\$ <u>66,558.50</u>

Handwritten calculation:

$$\begin{array}{r} 326,493.50 \\ + \quad 6,000 \\ \quad 2,500 \\ \quad 2,500 \\ \hline 337,493.50 \\ - 270,935. \\ \hline 66,558.50 \end{array}$$

✓

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 10/10/84 PROJECT TITLE PVSP Drainage System
PROJECT NO. 08916 PROPOSED C/O NO. 3

BRIEF DESCRIPTION OF CHANGE ORDER: Erosion protection at three locations. Additional gunite channel lining south of Cochise. Increased quantity of 60" pipe per as-built measurement. Increased quantity of structural excavation. Decrease in unit price for asphalt for deletion of prime coat. Decrease in unit price for sawcut.

EFFECT ON CONTRACTOR COST:

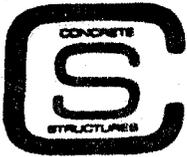
TIME:

JUSTIFICATION:

The areas of erosion are a result of the recent heavy rains and need to be protected immediately. The additional gunite removal and replacement will allow a better match of the existing channel flow line. The quantity increase of the 60" pipe is the final field measurement. The increase in structural excavation is for: Plans quantity error in omitting box culvert aprons, wing walls, and a claim issued by the contractor pointed out that three structures were not included as structures. Final specifications interpretation is that the 96" pipe junction structure and the two 48" pipe inlet structure are structures per MAG. The decrease in the unit price for the three types of asphalt is for the deletion of the prime coat. The decrease in the unit price for the remaining areas of sawcut has been agreed to by the contractor.

ALTERNATIVES:

SUBMITTED BY: Amelia Jones



CONCRETE STRUCTURES

8290 N. 75th Ave., Suite A
Peoria, Arizona 85345

Phone: 979-2088

City of Scottsdale
3939 Civic Center Plaza
Scottsdale, Az. 85251

October 1, 1984

Attn: Annette Grove

Re: P.V.S.P. Drainage System Project #8916

Gentlemen:

At this time we respectfully request an extension of Contract time for lost production due to inelamite weather. The following days have been recorded as rain days:

August	15, 1984
August	16, 1984
September	11, 1984
September	12, 1984
September	24, 1984
<u>September</u>	<u>25, 1984</u>
6 Days Total	

Your prompt consideration will be appreciated.

Sincerely,

C.S. Construction, Inc.

Michael R. Borden

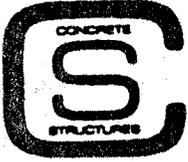
Vice-President

RECEIVED

OCT 3 1984

PURCHASING
ACCOUNTS PAYABLE

cc: Bill Anthony



CONCRETE STRUCTURES

8290 N. 75th Ave., Suite A
Peoria, Arizona 85345

Phone: 979-2088

City of Scottsdale
3939 Civic Center Plaza
Scottsdale Az. 85251

September 26, 1984

Attn: Annette Grove-Capital Engineering
Re; P.V.S.P. Drainage System

Gentlemen:

As per your request, the following reduction in unit price shall apply for the deletion of Prime Coat.

Item # 5.05	Deduct	.20/sy
Item # 5.07	Deduct	.20/sy
Item # 5.08	Deduct	.20/sy

Your prompt consideration to this matter will be appreciated.

Sincerely yours,
CS Construction, Inc.

Michael R. Borden
Vice-President

RECEIVED

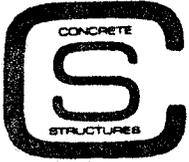
MRB/cm

SEP 28 1984

CAPITAL IMPROVEMENTS

BY _____

9/28/84
TO Bill Anthony for
next Change Order



CONCRETE STRUCTURES

8290 N. 75th Ave., Suite A
Peoria, Arizona 85345

Phone: 979-2088

City of Scottsdale
3939 Civic Center Plaza
Scottsdale, Az. 85251

August 31, 1984

Attn: Annette Grove

Re: P.V.S.P. Drainage System--Project #8916

Gentlemen:

At this time we respectfully request a change order to increase the quantity of item # 3.02 from 915 LF to 989 LF. Furthermore, Item #7.07 needs to be increased from 1 EA to 2 EA which will account for the work completed at Gold Dust.

Your prompt consideration to this matter will be appreciated.

Sincerely,

C.S. Construction, Inc.

Michael R. Borden

Vice-President

cc: Bill Anthony

RECEIVED

SEP 4 1984

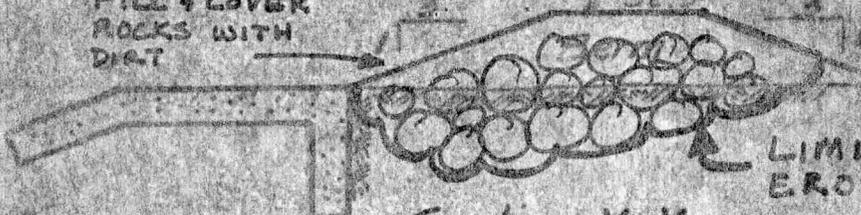
CAPITAL IMPROVEMENTS

BY _____

FILL & COVER
ROCKS WITH
DIRT

2'

Exist. R.
of Ditch
6
EL. 51.0



Section X-X
-NO SCALE-

Top Existing Ditch

25'
Drainage Easement

Top Existing Ditch

Construct Earth Berm
See Landscape Plan for
Seeding

LIMIT OF EROSION

TOP OF BERM 52.5

T.C.E.

40' D.E.

31' L.F. Handrail
40' Detail J

2' Fill Over Box
El. 53.75

Variable

Variable

Shldr.

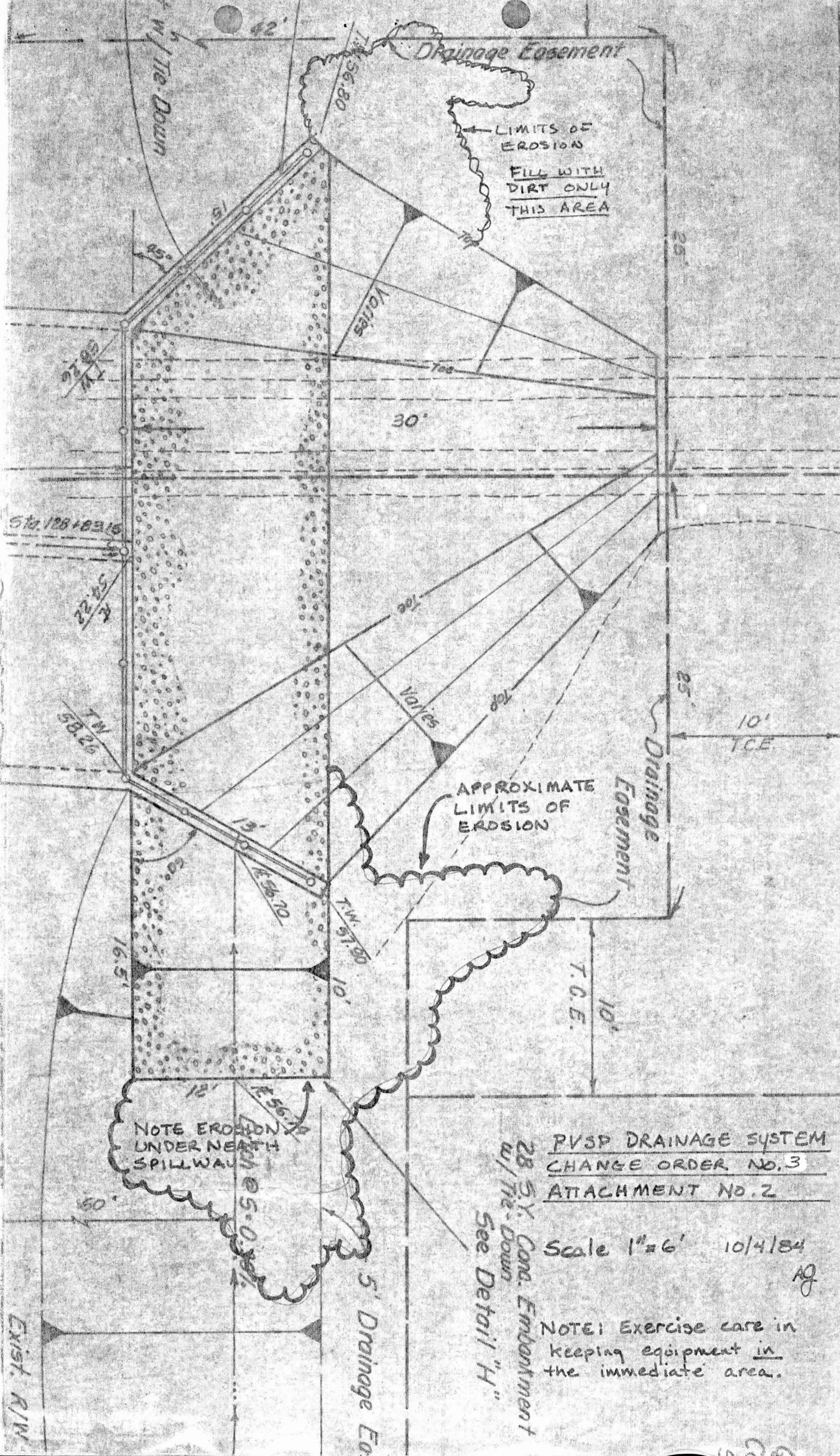
E.P.

SHEA

PVSP DRAINAGE SYSTEM
CHANGE ORDER NO. 3
ATTACHMENT NO. 1

Scale 1"=6'

10/4/84
R/W 10



Drainage Easement

LIMITS OF EROSION

FILL WITH DIRT ONLY THIS AREA

Voides

30°

Toe

Voides

Toe

APPROXIMATE LIMITS OF EROSION

Drainage Easement

10' T.O.E.

10' T.O.E.

NOTE EROSION UNDERNEATH SPILLWAY

5.0.3%

5' Drainage Ea

PVSP DRAINAGE SYSTEM
CHANGE ORDER NO. 3
ATTACHMENT NO. 2

Scale 1"=6' 10/4/84

28 S.Y. Conc. Embankment
w/ the Down
See Detail "H"

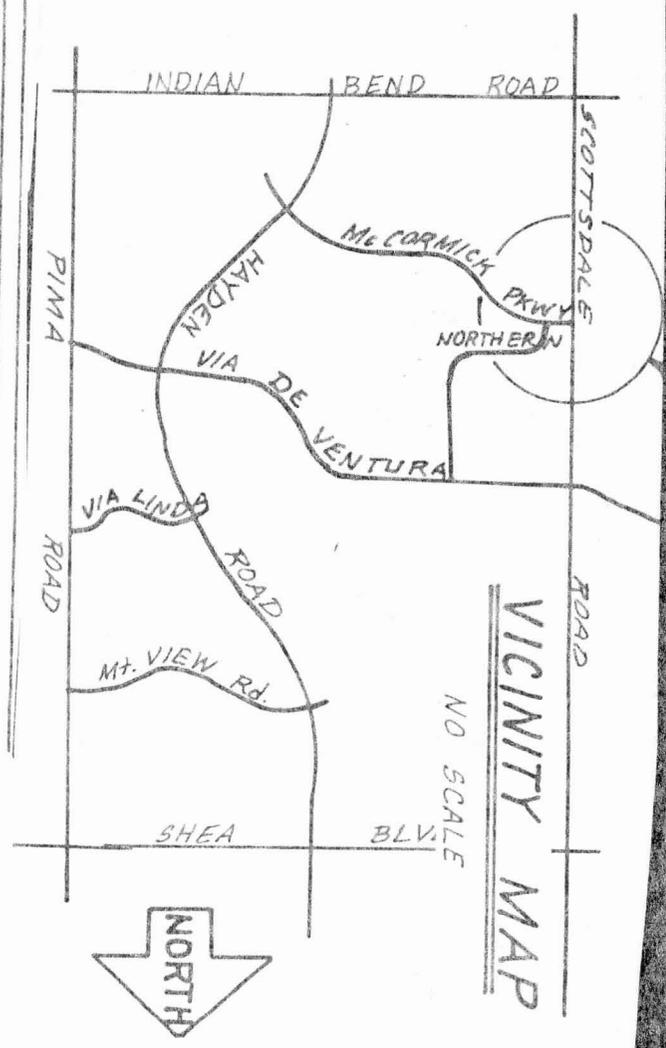
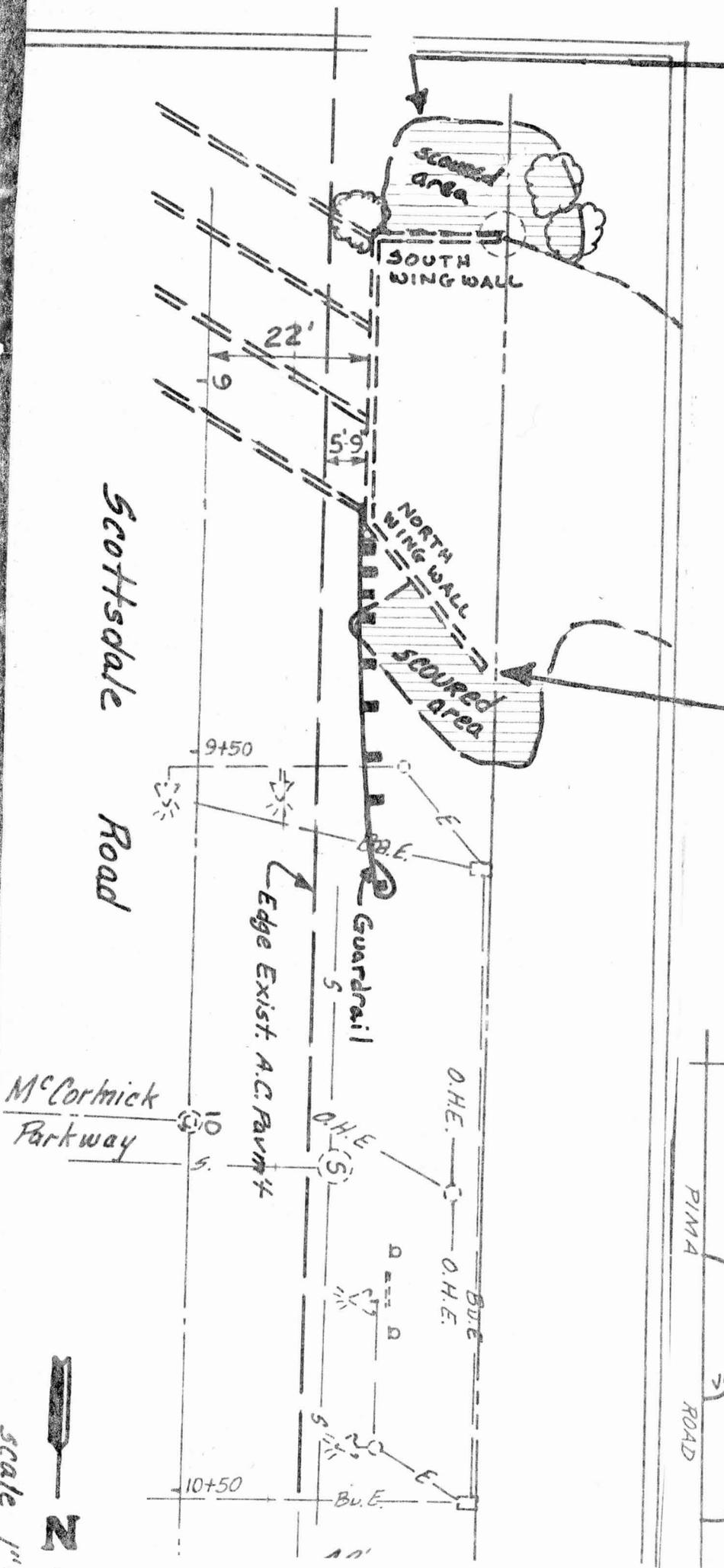
NOTE: Exercise care in keeping equipment in the immediate area.

Exist. R/W

AG

VIEW LOOKING NORTH
AT ERODED AREA WITH
OVERLAY OF ROCK
(SEE ATTACHMENT 5B)

VIEW LOOKING EAST
AT ERODED AREA WITH
OVERLAY OF ROCK TO
BE PLACED (SEE
ATTACHMENT 3A)

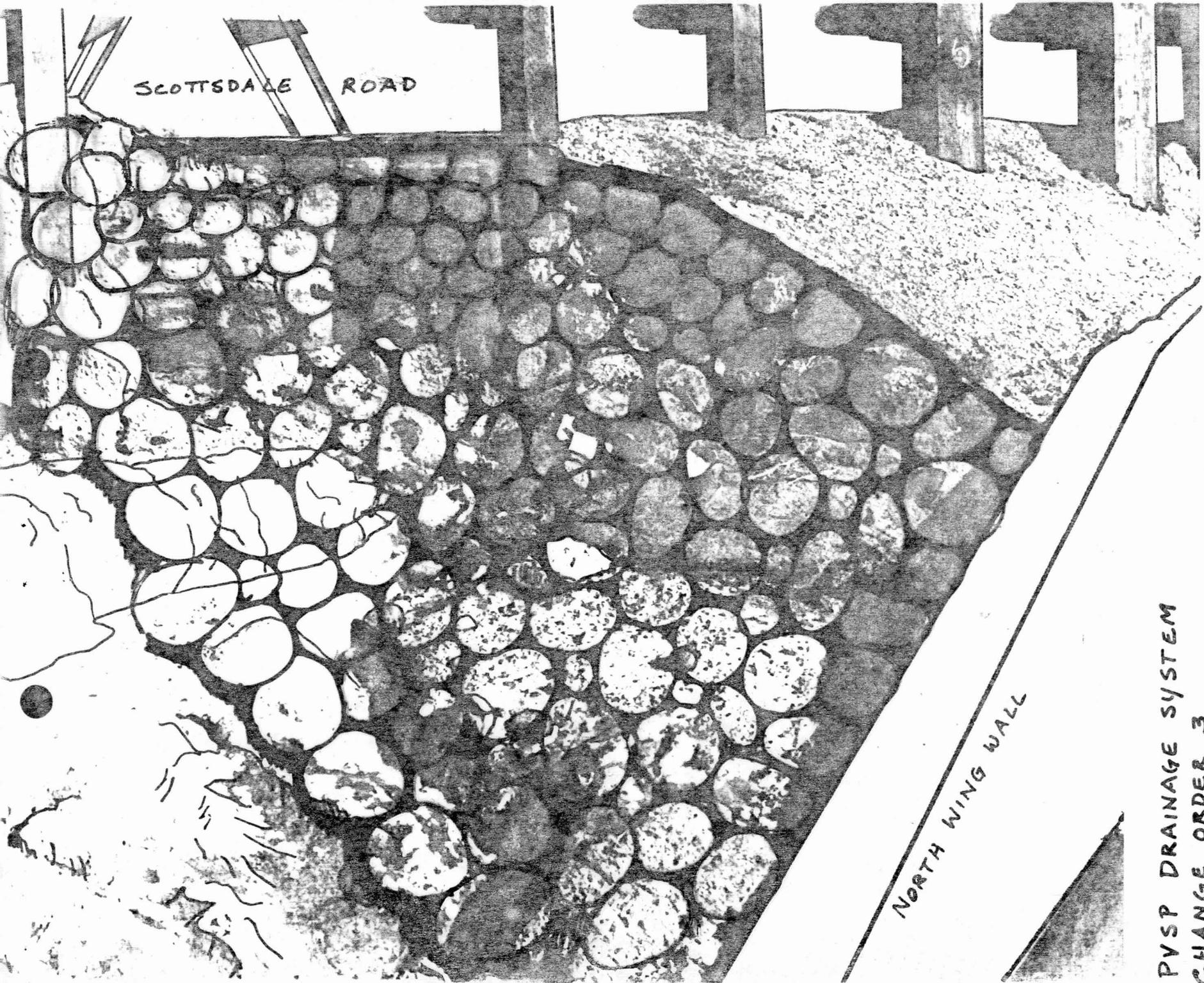


PVSP DRAINAGE SYSTEM
CHANGE ORDER 3
ATTACHMENT 3

scale 1"=20'

N

SCOTTSDALE ROAD



NORTH WING WALL

PVSP DRAINAGE SYSTEM
CHANGE ORDER 3
ATTACHMENT 3A



SOUTH WING WALL

PVSP DRAINAGE SYSTEM
CHANGE ORDER NO. 3
ATTACHMENT No. 3B

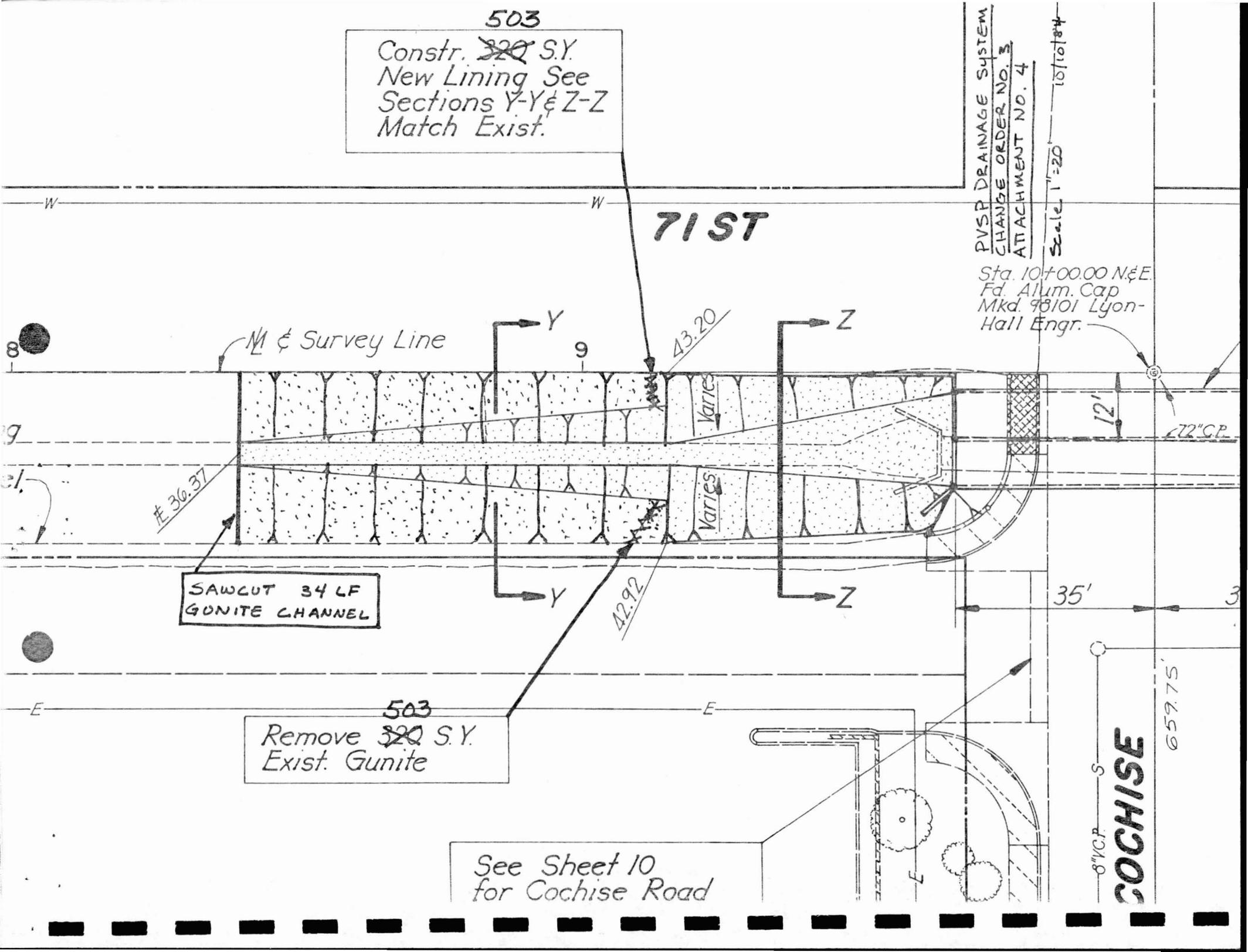
503

Constr. ~~320~~ S.Y.
New Lining See
Sections Y-Y & Z-Z
Match Exist.

PVSP DRAINAGE SYSTEM
CHANGE ORDER NO. 3
ATTACHMENT NO. 4
Scale 1"=20' 10/10/84

71 ST

Sta. 10+00.00 N&E
Fd. Alum. Cap
Mkd. 98101 Lyon-
Hall Engr.



SAWCUT 34 LF
GUNITITE CHANNEL

503
Remove ~~320~~ S.Y.
Exist. Gunitite

See Sheet 10
for Cochise Road

8" VCP S
COCHISE
659.75'

PVSP DRAINAGE SYSTEM
CHANGE ORDER NO. 3
ATTACHMENT NO. 5

EXPLANATION OF STRUCTURAL EXCAVATION INCREASE

The quantity of structural excavation revised by addendum prior to bid opening was 3035 CY.

Structural excavation, which will be a 1 foot pay limit beyond footings, walls and aprons to top elevation, will apply to all structures. The structures include box culverts at Golddust, Cochise, Sweetwater, Sutton and Thunderbird, and the two 48" inlet structures and the 96" energy disipator.

The total increase in structural excavation will be 1129 CY as follows:

	<u>Original</u>	<u>Revised</u>	<u>Difference</u>
Sht. 3 (96" Energy Disipator)	-0-	415	415
Sht. 4 (Sweetwater)	17.6	374.5	356.9
Sht. 7 (Golddust)	731	780.3	49.3
Sht. 9 (Cochise)	560	498	(62)
Sht. 14 (Sutton)	415	431	16
Sht. 16 (Thunderbird)	1237	1548.8	311.8
Sht. 21 (48" Inlet)	<u>74</u>	<u>116</u>	<u>42</u>
	3034.6	4163.6	1129 CY
Rounded To:	3035 CY	4164 CY	

The final change order for quantity adjustments will include as-built quantities for structural excavation of the above structures. Field measurements will be taken to include the 1 foot pay limit to the top existing elevation of cut locations.

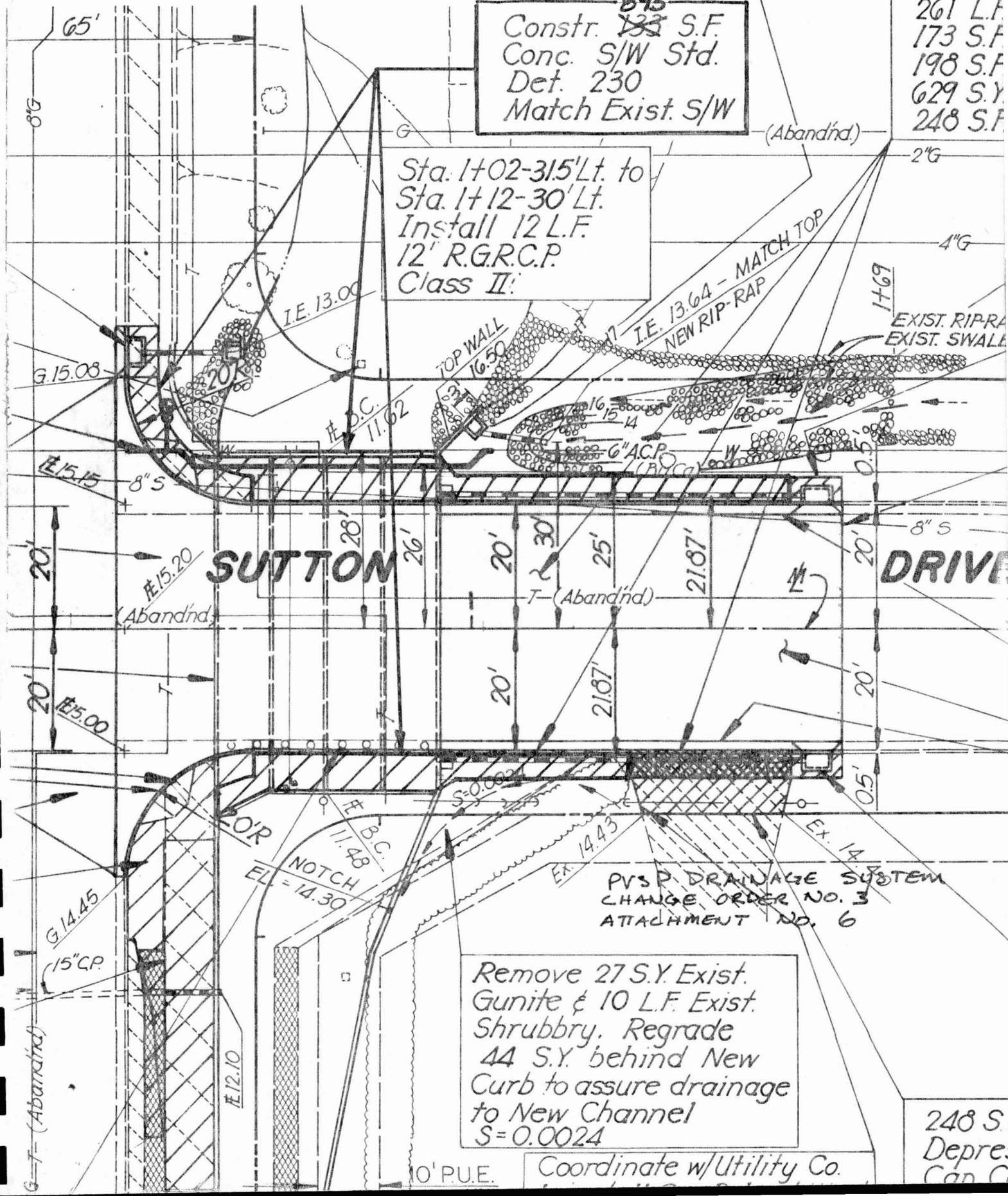
AG/tk

Constr. Berm over Pipe
See Detail @ Right

895
Constr. ~~133~~ S.F.
Conc. S/W Std.
Det. 230
Match Exist. S/W

Sawcut
261 L.F.
173 S.F.
198 S.F.
629 S.Y.
248 S.F.

Sta. 1+02-31.5' Lt. to
Sta. 1+12-30' Lt.
Install 12 L.F.
12' R.G.R.C.P.
Class II:



SUTTON

DRIVE

P.V.S.P. DRAINAGE SYSTEM
CHANGE ORDER NO. 3
ATTACHMENT NO. 6

Remove 27 S.Y. Exist.
Gunitite & 10 L.F. Exist.
Shrubbry. Regrade
44 S.Y. behind New
Curb to assure drainage
to New Channel
S=0.0024

248 S.Y.
Depres
Can C

Coordinate w/Utility Co.

10' P.U.E.



RECEIVED
NOV 23 '84

CH ENG	HYDRO
ASST	LMgt
ADMIN	SUSP
C & O	FILE
ENGR	DESTROY
FINANCE	
REMARKS	RGP

TO: Maricopa County Flood Control
3335 W. Durango
Phoenix, Az 85007

DATE: 11/21/84
SUBJECT: PVSP Drainage System

ATTEN: Ed Ralichy

PROJECT NO: 8916

THE FOLLOWING ITEMS ARE TRANSMITTED: HEREWITH
UNDER SEPARATE COVER

COPIES	DESCRIPTION
1	Change Order #4 to Steele & Jensen
1	Change Order #4 to LS Construction

THE ABOVE ITEMS ARE SUBMITTED:

At Your Request For Your Review For Your Information
 For Your Approval For Your Action Return Corrected Prints
 For Corrections For Your Use Return Check Prints

Remarks:
Ed: Call me if you have any questions.
Arnette

Enclosure (s) _____

Copies To:

Signed: *Arnette Grove*
Capital Improvements Engineering

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 10/19/84 PROJECT TITLE PVSP DRAINAGE SYSTEM
PROJECT NO. 08916 PROPOSED C/O NO. 4

BRIEF DESCRIPTION OF CHANGE ORDER: Revise alignment and grade from Sta. 11 + 00 to 16 + 50 thru the Larkspur intersection. Widen Thunderbird Road to the north from Scottsdale to 71st.

EFFECT ON CONTRACTOR COST: increase \$8,895.50 TIME: 10 day increase

JUSTIFICATION: The revised alignment follows the alignment and grades for the Phase II Scottsdale Road widening project to begin construction in 1985. The widening of Thunderbird Road will allow the contractor to construct the box culvert thru the Thunderbird/Scottsdale intersection in two phases instead of three. This will shorten the construction period, thereby shortening the inconvenience to the public. This will add a positive improvement to the intersection that was not part of the original design.

ALTERNATIVES:

SUBMITTED

Amelia Grove

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING CONTRACT CHANGE ORDER

PROJECT NO. 08916 TITLE: PVSP Drainage System
 CONTRACT NO. _____ CONTRACT DATED: July 11, 1984
 CHANGE ORDER NO. 4 PAGE 1 OF 2 PAGES
 TO: (Contractor) _____

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

ITEM	DESCRIPTION	DELETIONS	UNIT	TOTAL
3.07	214 LF 15" RGRCP		@ 55/LF	\$11,770
5.02	6024 SY Subgrade Preparation		@ 3/SY	18,072
5.04	1592 SY 12" ABC		@ 3/SY	4,776
5.05	1592 SY 3" AC Type B1		@ 5/SY	7,960
5.06	1592 SY 1" AC Type D-1/2		@ 2.50/SY	3,980
5.07	2507 SY 3" C-3/4 AC on 8" ABC		@ 11/SY	27,577
5.10	344 LF Thickened AC Edge		@ 5/LF	1,720
5.13	1241 LF 6" VC & G		@ 7/LF	8,687
5.14	2929 SF Conc. VG & Aprons		@ 3/LF	8,787
5.16	5798 SF 8' Conc. Bike Path		@ 2/SF	11,596
				(\$104,925)

You are directed to make the above changes in this contract: (1) Revised Sheets 11 and 12.

The Original Contract Sum Was.....\$ 1,777,972.25
 Net Change by Previous Change Orders.....\$ 58,184.50
 The Contract Sum Prior to This Change Order Was.....\$ 1,836,156.75
 The Contract Sum Will be (Increased) by This Change Order.....\$ 8,895.50
 The New Contract Sum, Including This Change Order Will Be.....\$ 1,845,052.25

The contract time Will Be (Increased) By..... 10 Days
 The date of completion as of This Date of This Change Order
 Therefore is..... 17 January 1985

ACCEPTED BY:	RECOMMENDED BY	APPROVED BY
C. S. Construction	CITY OF SCOTTSDALE	CITY OF SCOTTSDALE
8290 North 75th Avenue	<i>Robert J. DeRose</i> 11/5 FIELD ENGINEERING MGR./Date	<i>Dick Schauer</i> 11-10-84 PUBLIC WORKS ADMIN./Date
Peoria, AZ 85345	<i>Amelia Jones</i> 11/5/84 PROJECT COORDINATOR/Date	<i>[Signature]</i> COMM. DEV. DEPT./Date
	<i>Bill Lemkul</i> 11/5/84 CAPITAL ENGINEERING MGR./Date	<i>[Signature]</i> CITY MANAGER/Date
BY: <i>Michael Bond</i>	<i>[Signature]</i> 11/6/84 TRANSPORTATION DIR./Date	OTHER AGENCIES
DATE: 11/1/84	AS TO FUND AVAILABILITY:	
	<i>[Signature]</i> FINANCE DIRECTOR/date	FOR: _____



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO: 08916
 CONTRACT FOR: _____
 CHANGE ORDER: 4
 TO: ()

TITLE: PVSP Drainage System
 CONTRACT DATED: 7/11/84
 PAGE 2 OF 2 PAGES

YOU ARE TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

ADDITIONS

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>TOTAL</u>
3.07	212 LF 15" RGRCP Class IV	@ 55/LF	\$11,660
5.02	5796 SY Subgrade Preparation	@ 3/SY	17,388
5.04	706 SY 12" ABC	@ 3/SY	2,118
5.05	706 SY 3" AC Type B1	@ 4.50/SY	3,177
5.06	706 SY 1" AC Type D-1/2	@ 2.50/SY	1,765
5.07	2948 SY 3" C-3/4 AC on 8" ABC	@ 10.50/SY	30,954
5.10	875 LF Thickened AC Edge	@ 5/LF	4,375
5.13	1248 LF 6" VC & G	@ 7/LF	8,736
5.14	2650 SF Conc. VG & Aprons	@ 3/LF	7,950
5.16	5268 SF 8" Conc. Bike Path	@ 2/LF	10,536
8.05	10 Object Marker, Triple Vertical, ADOT Std. Det. 4-M-3.02	LS	750
8.06	Parkway Grading	LS	<u>1,250</u>
			100,659 ✓

(2) Construct the Thunderbird box culvert in two phases, with the barricading per Attachment No. 2. This phasing necessitates the widening of Thunderbird Rd. to the north per Attachment No. 3.

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>TOTAL</u>
383 LF Remove existng VC & G	@ 2/LF	766.00
570 SF Remove Conc. VG & Aprons	@ 2/LF	1,140.00
315 SY Subgrade Prep	@ 2.50/SY	787.50
340 LF Sawcut AC & conc.	@ 1/LF	340.00
363 LF 6" VC & G	@ 6/LF	2,178.00
670 SF Conc. VG & Aprons	@ 2.75/SF	1,842.50
315 SY 3" C-3/4 AC on 8" ABC	@ 10.50/SY	3,307.50
Traffic Control	LS	300.00
Sign & Signal Pole Relocation	LS	<u>2,500.00</u>
		13,161.50
DELETIONS		(\$104,925.00)
ADDITIONS		100,659.00
WIDEN THUNDERBIRD		<u>13,161.50</u>
TOTAL		<u>\$8,895.50</u> ✓

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING CONTRACT CHANGE ORDER

PROJECT NO. 08916
CONTRACT NO. _____
CHANGE ORDER NO. 4
TO: (Engineer _____)

TITLE: PVSP Drainage
CONTRACT DATED: 10-4-83
PAGE 1 OF 1 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

Add to Engineering Services Contract 6.6, Extra Work:
(7) Provide construction staking and as-builts of the Thunderbird Road widening from Scottsdale to 73rd Street.

\$ 370.00

The Original Contract Sum Was.....	\$ 17,800.00
Net Change by Previous Change Orders.....	\$ 26,075.00
The Contract Sum Prior to This Change Order Was.....	\$ 43,875.00
The Contract Sum Will be (increased) by This Change Order.....	\$ 370.00
The New Contract Sum, Including This Change Order Will Be.....	\$ 44,245.00

The Contract time Will Be (increased) By..... -0-
The as of This Date of This Change Order
Therefore is.....

ACCEPTED BY:
Engineer:

Steel & Jensen, Inc.

3015 E. Thomas, Suite 10

Phoenix, AZ 85016

BY: [Signature]
DATE: 11-14-84

RECOMMENDED BY
CITY OF SCOTTSDALE

NA
FIELD ENGINEERING MGR./Date

[Signature] 11/14/84
PROJECT COORDINATOR/Date

[Signature] 11/14/84
CAPITAL ENGINEERING MGR./Date

[Signature] 11/14/84
TRANSPORTATION DIR./Date
AS TO FUND AVAILABILITY:

APPROVED BY
CITY OF SCOTTSDALE

[Signature]
PUBLIC WORKS ADMIN./Date

[Signature]
COMM. DEV. DEPT./Date

[Signature]
CITY MANAGER/Date

OTHER AGENCIES

FOR: _____
FINANCE DIRECTOR/date

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE November 12, 1984 PROJECT TITLE PVSP Drainage System
PROJECT NO. 08916 PROPOSED C/O NO. 4

BRIEF DESCRIPTION OF CHANGE ORDER:

Provide construction staking and as-builts of the Thunderbird Road widening from Scottsdale Road to 73rd Street.

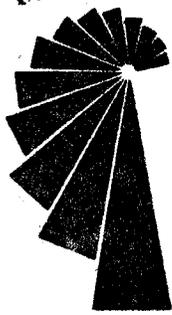
EFFECT ON CONTRACTOR COST: \$370.00 increase TIME: none

JUSTIFICATION:

The widening of Thunderbird was approved on construction Change Order No. 4. The widening of Thunderbird will allow traffic flows around the construction of the box culvert through the Thunderbird/Scottsdale intersection.

ALTERNATIVES:

SUBMITTED Annette Grove



STEELE & JENSEN, INC.
Engineers—Surveyors

Travis C. Steele, P.E.
Lynn H. Jensen, R.L.S.

November 13, 1984

Annette Grove, Project Coordinator
City of Scottsdale
3939 Civic Center Plaza
Scottsdale, Arizona 85251

Re: PVSP Drainage System
Project No. 8916

Dear Ms. Grove:

Per your request, we are submitting this letter requesting an additional fee for construction staking Thunderbird Road widening change order No. 4. Our fee will be (\$370.00) Three Hundred Seventy Dollars.

If you have any questions, please call.

Sincerely,

Steele & Jensen, Inc.


Lynn H. Jensen, R.L.S.

LHJ:alm



FLOOD CONTROL DISTRICT
RECEIVED

FEB 13 '85

CH ENG	HYDRO
ASST	LMgt
ADMIN	SUSP
C & O	FILE
FINANCE	DESTROY
REMARKS	

DATE: 2/7/85

TO: Ed Raleigh
Maricopa County Flood Control
3335 W. Durango
Phoenix, Az 85009

PROJECT NO. 08916 SUBJECT: PRSP Drainage System

THE FOLLOWING ITEMS ARE TRANSMITTED: HEREWITH
 UNDER SEPARATE COVER

<u>COPIES</u>	<u>DESCRIPTION</u>
1 EA	Change Order No's 5, 6 & 7

THE ABOVE ITEMS ARE SUBMITTED:

<input type="checkbox"/> AT YOUR REQUEST	<input type="checkbox"/> FOR YOUR REVIEW	<input type="checkbox"/> FOR YOUR INFORMATION
<input checked="" type="checkbox"/> FOR YOUR APPROVAL	<input type="checkbox"/> FOR YOUR ACTION	<input type="checkbox"/> RETURN CORRECTED PRINTS
<input type="checkbox"/> FOR CORRECTIONS	<input type="checkbox"/> FOR YOUR USE	<input type="checkbox"/> RETURN CHECK PRINTS

REMARKS:

SIGNED BY: *Amelia Jones*
CAPITAL ENGINEERING

COPIES TO:

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916
 CONTRACT NO. _____
 CHANGE ORDER NO. 5
 TO: Contractor)

TITLE: PVSP Drainage System
 CONTRACT DATED: July 11, 1984
 PAGE 1 OF 2 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

DELETIONS

ITEM	DESCRIPTION	UNIT	TOTAL
1.03	4.3 CY Conc. Culvert Outlet Apron @ Gold Dust	\$300/CY	\$1,290.00
1.13	24.8 CY Conc. Culvert Ent. @ Sweetwater	300/CY	7,440.00
1.14	22.3 CY Conc. Headwall & Wings @ Sweetwater	600/CY	13,380.00
2.04	1327 SY 4" Bomanite	40/SY	53,080.00
2.06	381 SY Bomanite Cut-off Walls	40/SY	15,240.00
8.03	545 SY Exposed Course Aggregate Conc.	20/SY	10,900.00
8.04	133 SY Exposed Course Aggregate Cuf-off Walls	20/SY	2,660.00
		TOTAL	(103,990.00)

The Original Contract Sum Was.....	\$ 1,777,972.25
Net Change by Previous Change Orders.....	\$ 67,080.00
The Contract Sum Prior to This Change Order Was.....	\$ 1,845,052.25
The Contract Sum Will be (increased) by This Change Order.....	\$ 12,180.00
The New Contract Sum, Including This Change Order Will Be.....	\$ 1,857,232.25

The Contract time Will Be (increased) By..... 60 Days
 The Day of completion as of This Date of This Change Order
 Therefore is..... March 18, 1985

ACCEPTED BY:
 Contractor
 C.S. Construction
 8290 N. 75th Avenue
 Peoria, AZ 85345

RECOMMENDED BY
 CITY OF SCOTTSDALE
Ed Villa 11-21-84
 FIELD ENGINEERING MGR./Date
Anita June 11/21/84
 PROJECT COORDINATOR/Date
Bill Lemberger 11/21/84
 CAPITAL ENGINEERING MGR./Date

APPROVED BY
 CITY OF SCOTTSDALE
Dick Schauer 12-6-84
 PUBLIC WORKS ADMIN./Date
[Signature]
 COMM. DEV. DEPT./Date
[Signature]
 CITY MANAGER/Date

BY: *[Signature]*
 DATE: 11-16-84

TRANSPORTATION DIR./Date
 AS TO FUND AVAILABILITY:

OTHER AGENCIES
 FOR:

FINANCE DIRECTOR/date

FCM

CITY OF SCOTTSDALE

TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER



PROJECT NO: 08916
CONTRACT FOR: _____
CHANGE ORDER: 5
TO: (Contractor)

TITLE: PVSP Drainage System
CONTRACT DATED: July 11, 1984
PAGE 2 OF 2 PAGES

YOU ARE TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

ADDITIONS

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>TOTAL</u>
1.03	8.5 CY Conc. Culvert Outlet Apron @ Gold Dust	\$300/CY	\$2,550.00
1.13	15.8 CY Culvert Ent. @ Sweetwater	300/CY	4,740.00
1.14	62.6 CY Conc. Headwall & Wings @ Sweetwater + 40.3	600/CY	37,560.00
2.04	991 SY 4" Bomanite (-336)	40/SY	39,640.00
2.06	189 SY Bomanite Cut-off Walls (-192)	40/SY	7,560.00
8.03	881 SY Exposed Coarse Aggregate Conc. (+336)	20/SY	17,620.00
8.04	325 SY Exposed Coarse Aggregate Cut-Off Walls (+192)	20/SY	6,500.00
	TOTAL		\$116,170.00
	TOTAL INCREASE		12,180.00

Delay construction of the Thunderbird/Scottsdale box culvert until January 7, 1985.
There will be no additional move out/move in costs and no increase in unit prices

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 11/12/84 PROJECT TITLE PVSP Drainage System
PROJECT NO. 08916 PROPOSED C/O NO. 5

BRIEF DESCRIPTION OF CHANGE ORDER:

Change channel lining south of Gold Dust from Bomanite to exposed aggregate concrete. Revise quantities of concrete at outlet apron at Gold Dust, box culvert entrance at Sweetwater and head wall and wing walls at Sweetwater. Delay construction of the Thunderbird box culvert until January 7, 1985.

EFFECT ON CONTRACTOR COST: \$12,180 Increase TIME: 60 Days

JUSTIFICATION:

The channel south of Gold Dust is not as visible to the traveling public. The change from bomanite to exposed aggregate concrete will reduce the lining cost by allow the contractor to schedule the work immediately instead of a 2 - 3 week delay, due to the subcontractors backlog of work. The revised concrete quantities at Gold Dust and Sweetwater are per final as-built measurements. The time extension to delay the box culvert construction through the Scottsdale/Thunderbird intersection will prevent the intersection from being under construction during the Christmas and New Year's holidays, which would be an inconvenience to the public.

ALTERNATIVES:

SUBMITTED

Amanda Grove

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916
 CONTRACT NO. _____
 CHANGE ORDER NO. 6
 TO: (Contractor _____)

TITLE: PVSP Drainage System
 CONTRACT DATED: 7/2/84
 PAGE 1 OF 3 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

1. Install catch basin, Std. Det. 533-1, from Sta. 52 + 20 to Sta. 52 + 26 tying into top of box culvert.

\$2,000

The Original Contract Sum Was.....	\$ 1,777,972.25
Net Change by Previous Change Orders.....	\$ 79,260.00
The Contract Sum Prior to This Change Order Was.....	\$ 1,857,232.25
The Contract Sum Will be (increased) by This Change Order.....	\$ 2,000.00
The New Contract Sum, Including This Change Order Will Be.....	\$ 1,859,232.25

The contract time will be (unchanged) By.....
 The date of completion as of This Date of This Change Order
 Therefore is..... March 18, 1985

ACCEPTED BY:

C. S. Construction

8290 North 75th Ave.

Peoria, AZ 85345

RECOMMENDED BY
 CITY OF SCOTTSDALE
Ed Villa 1-29-85
 FIELD ENGINEERING MGR./Date
Arnette Jones 1/29/85
 PROJECT COORDINATOR/Date
Bill Leimbach 1/30/85
 CAPITAL ENGINEERING MGR./Date

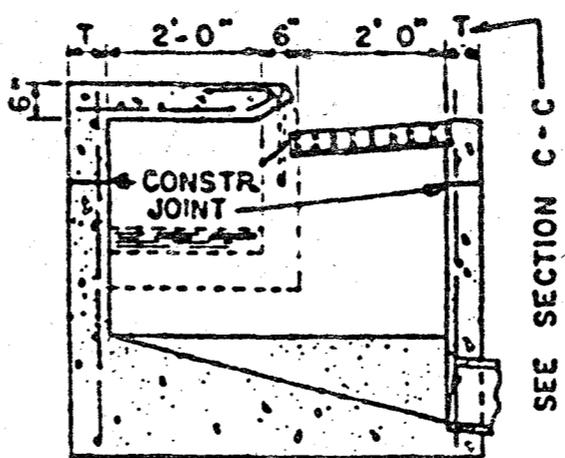
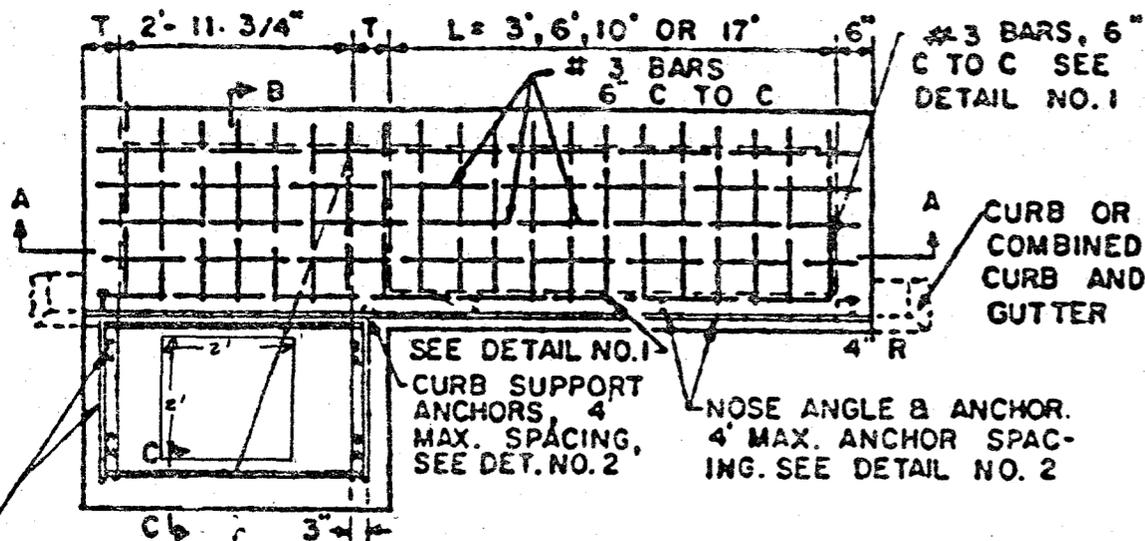
APPROVED BY
 CITY OF SCOTTSDALE
Dick Schauer
 PUBLIC WORKS ADMIN./Date
JJD
 COMM. DEV. DEPT./Date
JJD
 CITY MANAGER/Date

BY: Michael A. Soder
 DATE: 1-22-85

R. Spivak 1/31/85
 TRANSPORTATION DIR./Date
 AS TO FUND AVAILABILITY:

OTHER AGENCIES
 FOR: _____

H. Langford 1/31/85
 FINANCE DIRECTOR/Date
 (Required if over \$500.00)



- NOTES:**
1. SINGLE C. B. (ILLUSTRATED), SUMP WITH WING BASIN UPSTREAM.
 2. DOUBLE C. B. SUMP WITH SYMMETRICAL WING BASINS EACH SIDE.
 3. PIPES CAN BE PLACED IN ANY WALL EXCEPT WALL ADJACENT TO A WING BASIN.
 4. SUMP FLOOR SHALL HAVE A WOOD TROWEL FINISH AND A MIN. SLOPE OF 4:1 IN ALL DIRECTIONS TOWARD OUTLET PIPE.
 5. ALL REINFORCING BARS SHALL BE #4, 18" C TO C BOTH WAYS AND 1-1/2" CLEAR TO INSIDE OF WALLS AND OUTSIDE OF WING BASIN FLOOR EXCEPT AS SHOWN. SEE SECT. 727.
 6. ALL CONCRETE SHALL BE CLASS A, PER SECT. 725.
 7. CONSTR. JOINTS SHALL BE PLACED TO MEET FIELD CONDITIONS. B.T = 6" WHEN V IS LESS THAN 8'; 8" WHEN GREATER THAN 8'. SEE SECTION C-C.

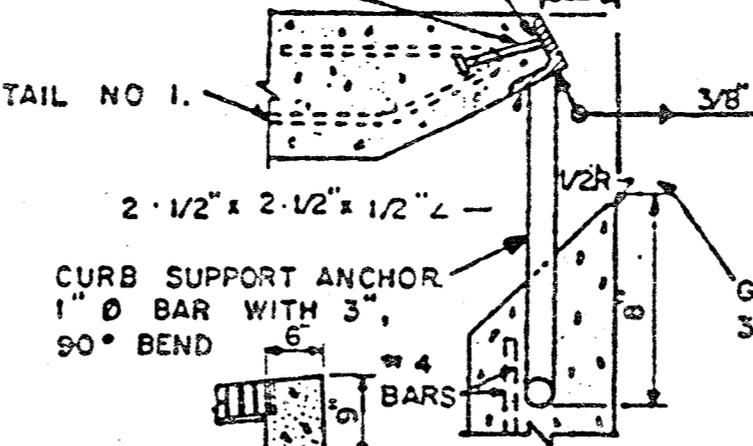
GRATE FRAME AND FRAME ANCHORS

NOTE: REINFORCING BARS SHOWN ARE FOR ROOF SLAB ONLY. SEE SECTIONS FOR OTHER REINFORCING.

PLAN

3/8" x 3-1/2" SO. HEAD BOLT ANCHOR.

SEE DETAIL NO. 1.



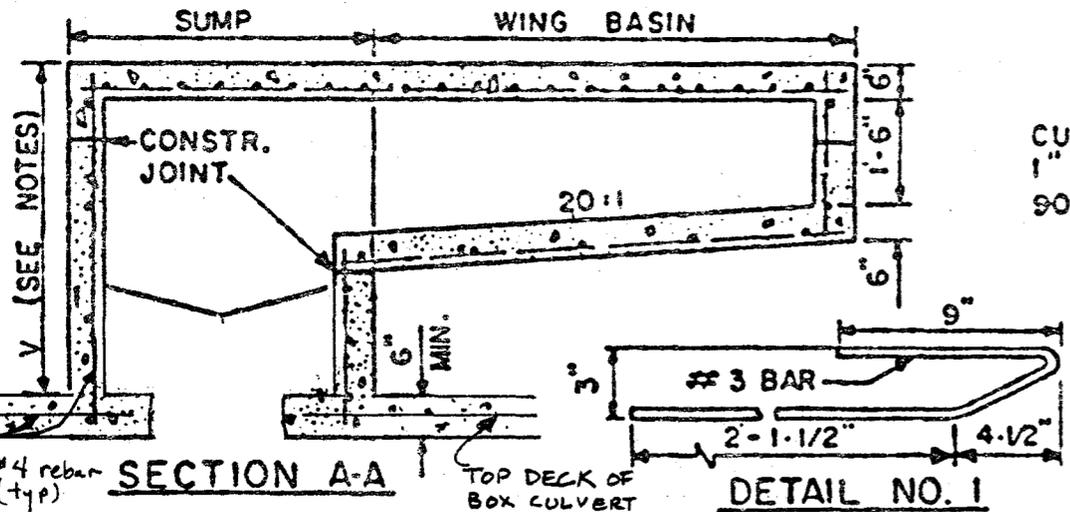
CURB SUPPORT ANCHOR 1" Ø BAR WITH 3" 90° BEND

GUTTER DEPRESSION AS SPECIFIED. 3" MAX., 1" MIN.

DETAIL NO. 2

USE THIS SECTION WHEN T = 8"

SECTION C-C



SECTION A-A

DETAIL NO. 1

- V = 3'-3" MIN. WHEN L = 3'
 - V = 3'-5" MIN. WHEN L = 6'
 - V = 3'-7" MIN. WHEN L = 10'
 - V = 4'-0" MIN. WHEN L = 17'
- V DOUBLES FOR SYMMETRICAL WINGS.

DETAIL NO. 533-1



STANDARD DETAIL

CATCH BASIN

TYPE D

DETAIL NO. 533-1

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 1/21/85 PROJECT TITLE PVSP Drainage System

PROJECT NO. 08916 PROPOSED C/O NO. 6

BRIEF DESCRIPTION OF CHANGE ORDER:

Install grated catch basin at southeast curb return of Thunderbird and Scottsdale, tying into the box culvert.

EFFECT ON CONTRACTOR COST: \$2,000 increase TIME:

JUSTIFICATION:

Recent rains have shown the need for a catch basin at the southeast corner of the Scottsdale/Thunderbird intersection to catch street flows not intercepted by the catch basin at the northeast corner.

ALTERNATIVES:

Do not install the catch basin and allow street flows to continue south to the Thunderbird Academy driveway.

SUBMITTED BY: Bill Anthony

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916
 CONTRACT NO. _____
 CHANGE ORDER NO. 7
 TO: (Contractor _____)

TITLE: PVSP Drainage System
 CONTRACT DATED: 7/2/84
 PAGE 1 OF 4 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

1. Install additional 15 feet of handrail, 1 post, and 10 feet of chain with reflectors across lined channel entrance into 96" pipe at Sweetwater, per Attachment No. 1

15' Handrail (addition to Bid Item 7.14 @ \$30/LF)	\$450.00
Post, Chain, Reflectors and Installation	530.00
	\$980.00

2. Install additional 27 feet of handrail across lined channel spillway into the Cactus Basin, per Attachment No. 2.

27' Handrail (addition to Bid Item 7.14 @ \$30/LF)	\$810.00
--	----------

TOTAL \$1,790.00

The Original Contract Sum Was.....	\$ 1,777,972.25
Net Change by Previous Change Orders.....	81,260.00
The Contract Sum Prior to This Change Order Was.....	1,859,232.25
The Contract Sum Will be (increased) by This Change Order.....	1,790.00
The New Contract Sum, Including This Change Order Will Be.....	1,861,022.25

The contract time Will Be (unchanged) By.....
 The date of completion as of This Date of This Change Order
 Therefore is..... March 18, 1985

ACCEPTED BY:

C. S. Construction

8290 North 75th Ave.

Peoria, AZ 85345

RECOMMENDED BY
 CITY OF SCOTTSDALE
Ed Villa 1-29-85
 FIELD ENGINEERING MGR./Date
Annette Jones 1/29/85
 PROJECT COORDINATOR/Date
Billy Lemkuhler
 CAPITAL ENGINEERING MGR./Date

APPROVED BY
 CITY OF SCOTTSDALE
Dick Schauer
 PUBLIC WORKS ADMIN./Date
JGD
 COMM. DEV. DEPT./Date
JGD
 CITY MANAGER/Date

BY: Michael Bond
 DATE: 1-21-85

R. Garcia 1/31/85
 TRANSPORTATION DIR./Date
 AS TO FUND AVAILABILITY:
R. Langley 1/31/85
 FINANCE DIRECTOR/date
 (Required if over \$500.00)

OTHER AGENCIES
 FOR: _____

See Det. Sheet 4

S.T. A.C. P.VIII.

Sta. 26+46.92
Fd. B.C. (flush)

27

ROAD

15 L.F. SAFETY RAIL

Sta. 27+20
to 27+50
Match
Exist. S/W,
Gabions &
Gunite
Lined
Channel

Clean
bottom
from
Sweetwater
to 2nd P.P.
North

300'±

10 LF CHAIN

Relocate
Sign

Pipe Support
Std. Det. 403-2"B
Adjust W/L
to Clear Box*

Regrade Area
Between C.&G.
& New Hdwl.

Replace 155 S.Y.
Bomanite per
Section Y-Y, Sht II.
Match existing
Bike Path & Channel.

Constr. Hdwl. w/
70 L.F. Safety
Rail- See Detail,
Sheet 4

**SWEETWATER
STREET EAST**

Lower Exist Elec.
by Others

PVSP DRAINAGE SYSTEM
PROJECT NO. 8916

ATTACHMENT NO. 1 TO
CHANGE ORDER NO. 7

B
29

16.92
SWEETWATER

End C.B.C.
Sta. 26+85

f 35 (Survey Line)
P.R.C.

**SWEETWATER
AVENUE**

R=11042'

New G.04.50

Old G.05.10

10'±

15%

PT. EQUATION

Sta. 26+76.86 Bk

Sta. 26+75 Ahd.

10'

EX. G.W

EX. G.05.23

40'E

8" V.C.P.

23.5'

0.5'

8" A.C.P.

40'E

8' P.U.E.

40

15' 36'

VARIES

VARIES

VARIES

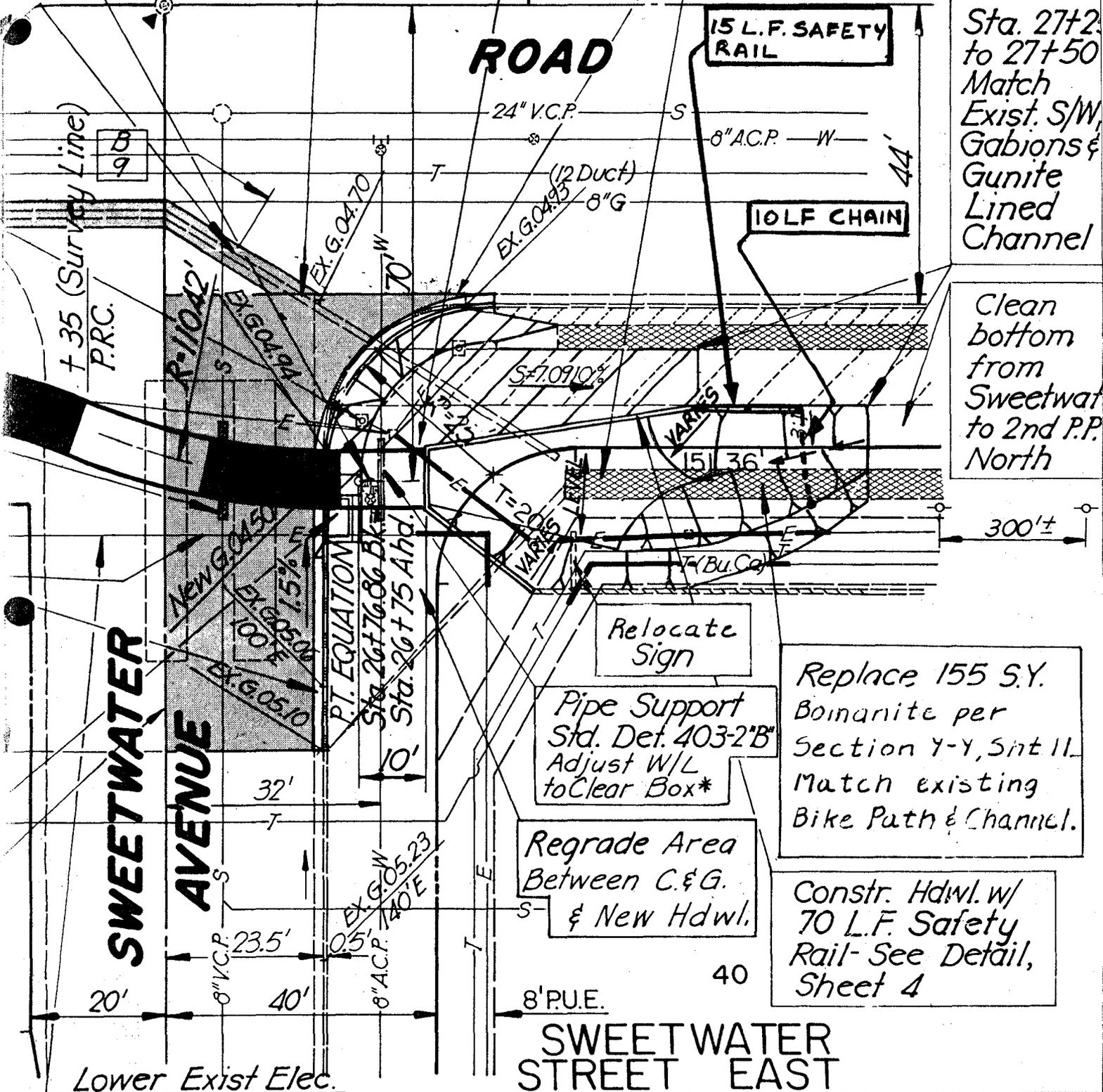
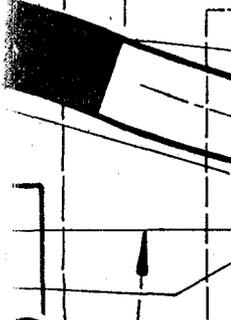
VARIES

VARIES

VARIES

VARIES

VARIES



R.G.R.C.P. CI. IV

12

Asphalt Apron
to Catch
Basin

Begin Pipe
Sta. 11+18.00
93' Rt.

Sta. 11+50

CURB & GUTTER
& POINT
Sta. 11+73.18

P.T. EQUATION
Sta. 12+22.73 Bk. =
Sta. 12+09.72 Ahd.

T.C. = 94.47
G = 93.97

+0.5837%

T (Abandnd) 122.23

27 LF SAFETY
RAIL

Proposed
Temporary
Constr. Ease.

Construct Bomanite
(See Detail Sht 27)

Remove 140
wall & Rebu
75' Rt. Conn

CAUTION:
HIGH VOLTAGE
OVERHEAD
POWERLINES

See Section Y-Y
Above w/4' deep
x 6" wide cut off
wall at North
end. Profile to
Match Final
slopes of
Cactus Park

Install 4 L.F.
48" Pipe

3

SCOTTSDA

es
me
55

**PVSP DRAINAGE SYSTEM
PROJECT NO. 8916
ATTACHMENT NO. 2 TO
CHANGE ORDER NO. 7**

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 1/18/85 PROJECT TITLE PVSP Drainage System

PROJECT NO. 08916 PROPOSED C/O NO. 7

BRIEF DESCRIPTION OF CHANGE ORDER:

Installation of additional safety rail and chain,

EFFECT ON CONTRACTOR COST: \$3,590 increase TIME: 2

JUSTIFICATION:

The safety rail and chain locations will prevent bicycle riders from riding down the entrance into the 96" pipe at Sweetwater and into the energy dissipater in the Cactus Basin.

ALTERNATIVES: Do not install these improvements thus putting the City in a position of possible liability.

SUBMITTED BY: Bill Cochran

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916 F5502
 CONTRACT NO. _____
 CHANGE ORDER NO. 8
 TO: (Contractor) _____

TITLE: PVSP Drainage System
 CONTRACT DATED: 7/2/84
 PAGE 1 OF 3 PAGES

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

Install grated catch basin from Sta. 53 + 27 to Sta 53 + 31, 1' wide tying into box culvert by 2 - 1' x 1' openings (see attached drawing).

Lump Sum \$2,000.00

The Original Contract Sum Was.....	\$1,777,972.25
Net Change by Previous Change Orders.....	\$ 83,050.00
The Contract Sum Prior to This Change Order Was.....	\$1,861,022.25
The Contract Sum Will be (increased) by This Change Order.....	\$ <u>2,000.00</u>
The New Contract Sum, Including This Change Order Will Be.....	\$ <u>1,863,022.25</u>

The contract time will be (unchanged) By.....
 The date of completion as of this date of this change order
 Therefore is..... March. 18, 1985

ACCEPTED BY:
 C.S. Construction
 8290 North 75th Ave.
 Peoria, AZ 85345

RECOMMENDED BY
 CITY OF SCOTTSDALE
Ed Villa 2-13-85
 FIELD ENGINEERING MGR./Date
Ann Marie Grome 2/15/85
 PROJECT COORDINATOR/Date
Pillh. Leimkuhler 2/15/85
 CAPITAL ENGINEERING MGR./Date

APPROVED BY
 CITY OF SCOTTSDALE
Dick Schaner
 PUBLIC WORKS ADMIN./Date
[Signature]
 COMM. DEV. DEPT./Date
[Signature]
 CITY MANAGER/Date

BY: *Michael J. Gort*
 DATE: 2/8/85

[Signature] 2/15/85
 TRANSPORTATION DIR./Date
 AS TO FUND AVAILABILITY:

OTHER AGENCIES

[Signature] 2/20/85
 FINANCE DIRECTOR/date
 (Required if over \$500.00)

FOR: _____

City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 2/7/85 PROJECT TITLE PVSP Drainage System

PROJECT NO. 08916 PROPOSED C/O NO. 8

BRIEF DESCRIPTION OF CHANGE ORDER:

Construction of grated catch basin at N.W. corner of Thunderbird and Scottsdale [tying into box culvert.

EFFECT ON CONTRACTOR COST: \$2,000.⁰⁰ TIME: 0

JUSTIFICATION:

During heavy rains, street run-off on the west side of Scottsdale continues south through the Thunderbird/Scottsdale intersection. This will be an interim measure until the City of Phoenix completes the design and construction of the lined channel between Thunderbird and Greenway on the west side of Scottsdale Road.

ALTERNATIVES:

Do not construct the catch basin and allow street flows to continue flowing south in the gutter.

SUBMITTED BY: Arnette Grove

CITY OF SCOTTSDALE



TRANSPORTATION ENGINEERING

CONTRACT CHANGE ORDER

PROJECT NO. 08916 (F5502) TITLE: PVSP Drainage System
 CONTRACT NO. _____ CONTRACT DATED: 7/2/84
 CHANGE ORDER NO. Nine (9) PAGE 1 OF 2 PAGES
 TO: (Contractor) C.S. Construction (address below)

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

1. Saw-cut and remove sufficient gunite lining in channel bottom at culvert inlet at Gold Dust & 71st Street as needed to construct the pier wall upstream extension drawn in attachment No. 1. Replace gunite bottom lining around wall footing as shown on detail
LUMP SUM \$3,300
 2. Clean debris from gunite channel along 71st Street from Gold Dust to Shea including Shea culvert.
LUMP SUM \$2,500
- TOTAL \$5,800

The Original Contract Sum Was.....	\$ 1,777,972.25
Net Change by Previous Change Orders.....	\$ 85,050.00
The Contract Sum Prior to This Change Order Was.....	\$ 1,863,022.25
The Contract Sum Will be (increased) by This Change Order.....	\$ 5,800.00
The New Contract Sum, Including This Change Order Will Be.....	\$ 1,868,822.25

The Contract time Will Be (Unchanged) By.....
 The Date of Completion as of This Date of This Change Order
 Therefore is..... March 18, 1985

ACCEPTED BY:
 C. S. Construction
 8290 N. 75th Ave.
 Peoria, AZ 85345

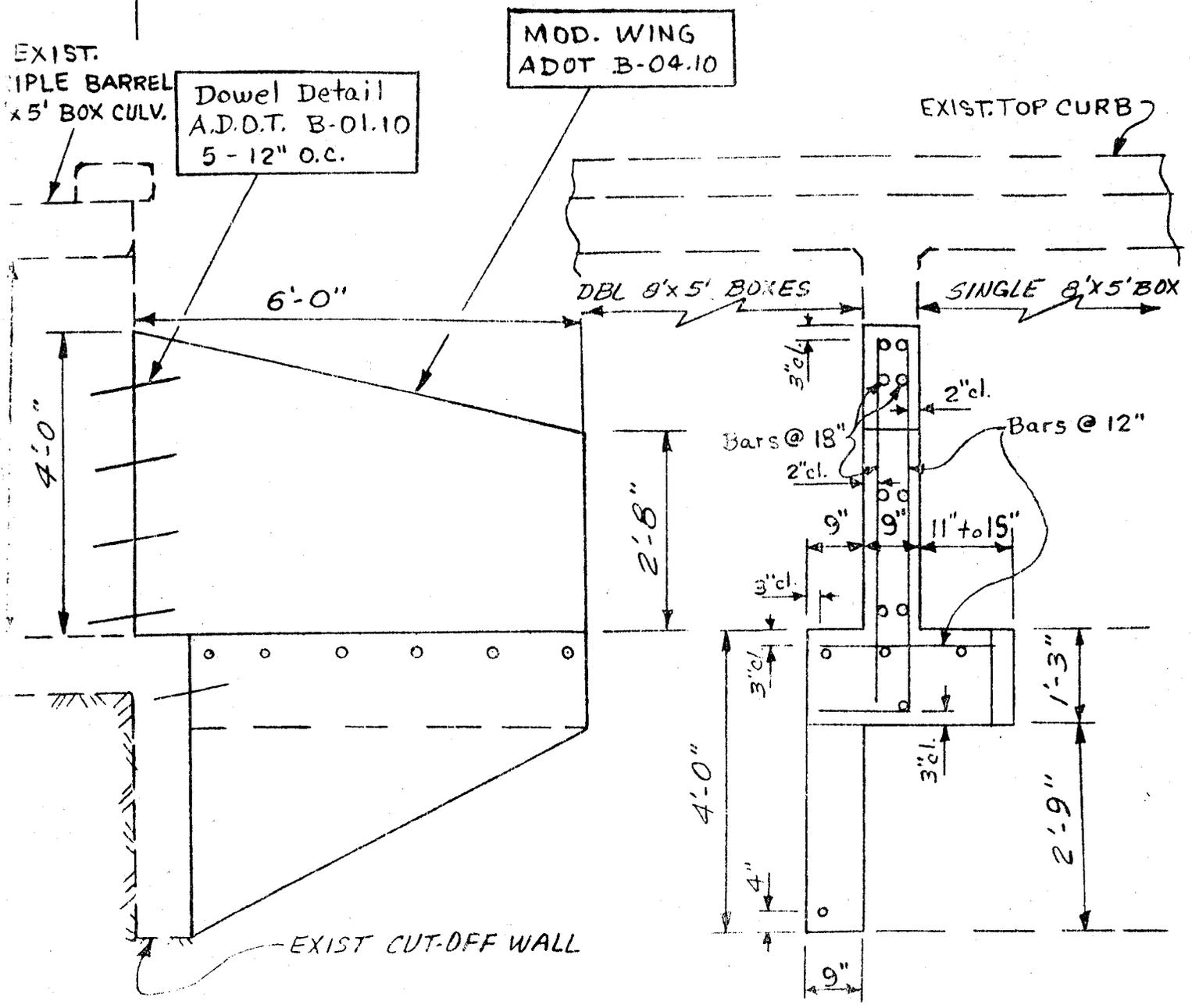
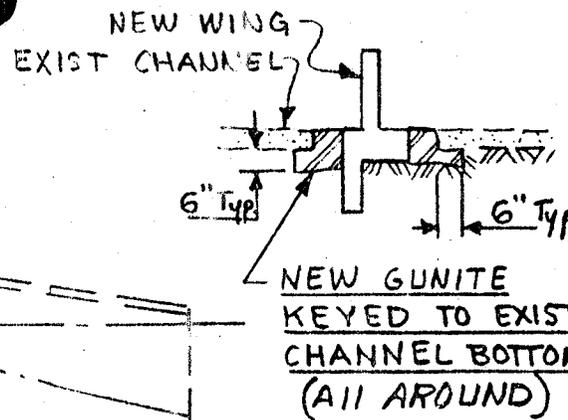
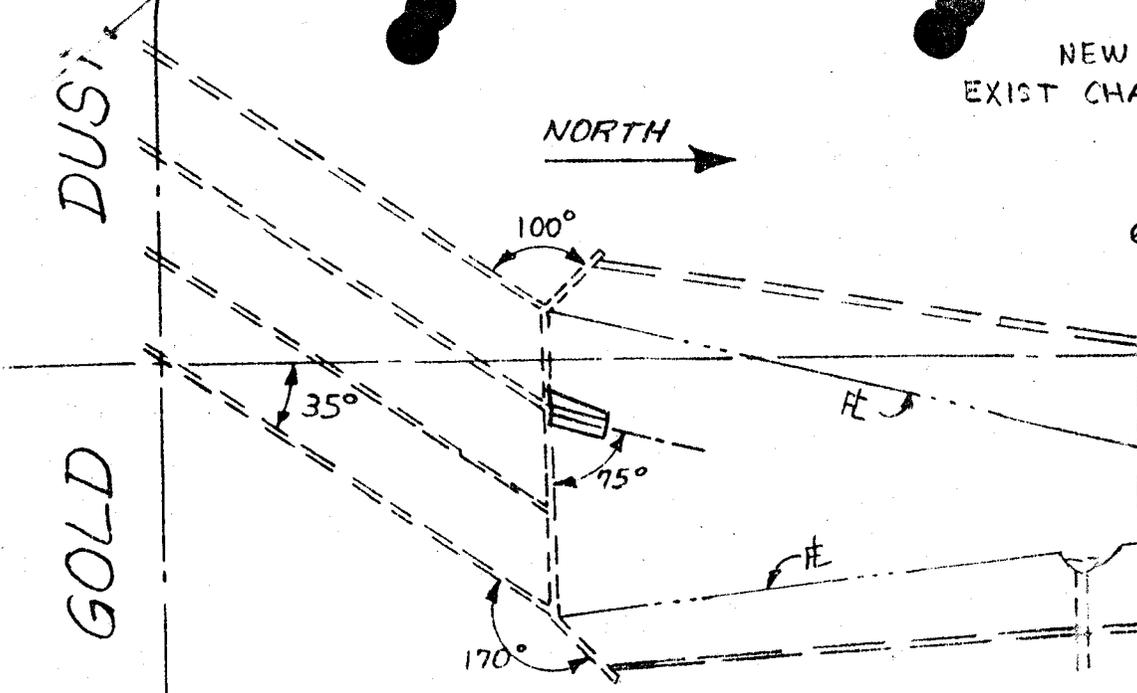
RECOMMENDED BY
 CITY OF SCOTTSDALE
Bill Villa 3-12-85
 FIELD ENGINEERING MGR./Date
Ann Marie Jones 3/14/85
 PROJECT COORDINATOR/Date
Bill Leimbuehler 3/14/85
 CAPITAL ENGINEERING MGR./Date

APPROVED BY
 CITY OF SCOTTSDALE
Richard Schauer 3/14/85
 PUBLIC WORKS ADMIN./Date
[Signature]
 COMM. DEV. DEPT./Date
[Signature]
 CITY MANAGER/Date

BY: *[Signature]*
 DATE: 3-12-85

[Signature] 3/14/85
 TRANSPORTATION DIR./Date
 AS TO FUND AVAILABILITY:
Nancy Smith
 FINANCE DIRECTOR/date 3/14/85
 (Required if over \$500.00)

OTHER AGENCIES
 FOR: _____



City of Scottsdale, Arizona

CAPITAL ENGINEERING

PROPOSED CHANGE ORDER JUSTIFICATION

DATE 3/11/85 PROJECT TITLE PVSP Drainage System

PROJECT NO. 08916 (F5502) PROPOSED C/O NO. Nine (9)

BRIEF DESCRIPTION OF CHANGE ORDER:

Construction of a deflection wall at the inlet to the Gold Dust box culvert and cleaning of the drainage channel along 71st Street between Gold Dust and Shea Blvd.

EFFECT ON CONTRACTOR COST: \$5,8000 increase TIME:

JUSTIFICATION:

The deflection wall will split low flows evenly between the three boxes so that the westerly box does not fill with silt. This item has been agreed to by the Flood Control District. The cleaning of the drainage channel will remove existing debris and silt, leaving the channel more aesthetic looking and removing items that could pose as future maintenance items.

ALTERNATIVES:

If the channel is not cleaned and the deflection wall is not constructed, this channel and box culvert at Gold Dust will be a continual maintenance problem for City forces.

SUBMITTED BY: Bill Anthony

BID CALL 84-86
PROPOSAL

C-S

CITY OF SCOTTSDALE, ARIZONA
CAPITAL ENGINEERING

PROPOSAL TO THE CITY OF SCOTTSDALE:

In compliance with the Advertisement for Bids, by the Purchasing Director: The undersigned bidder

Having examined the contract documents, site of work, and being familiar with the conditions to be met, hereby submits the following Proposal for furnishing the material, equipment, labor and everything necessary for the completion of the work listed and agrees to execute the contract documents and furnish the required bonds and certificates of insurance for the completion of said work, at the locations and for the prices set forth hereinafter.

Understands that construction of this project shall be in accordance with all applicable Uniform Standard Specifications and Standard Details except as otherwise required by the Project Plans and Special Provisions.

Understands that his proposal shall be submitted with a proposal guarantee of cash, certified check, cashier's check or surety bond for an amount not less than (10%) Ten Percent of the Base Bid Amount.

Agrees that upon receipts of Notice of Award, from the City of Scottsdale, he will execute the contract documents.

Work shall be completed within one hundred fifty (150) calendar days, beginning with the day following the starting date specified in the Notice to Proceed. The time allowed for completion of the work includes lead time for obtaining the necessary material and/or equipment.

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

Add. # 1 + 2 + 3

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
1.01	206.1	CY	Culvert Barrels @ B	200.-	Two Hundred	41,220.-
1.02	14.6	CY	Culvert Outlet Headwall & Wings @ B	200.-	Two Hundred	2,920.-
1.03	4.3	CY	Culvert Outlet Apron @ B	300.-	Three Hundred	1,290.-
1.04	14.7	CY	Culvert Inlet Headwall & Wings @ B	200.-	Two Hundred	2,940.-
1.05	114.9	CY	Culvert Barrels @ C	200.-	Two Hundred	22,980.-
1.06	17.3	CY	Culvert Outlet Headwall & Wings @ C	200.-	Two Hundred	3,460.-
1.07	17.3	CY	Culvert Inlet Headwall & Wings @ C	200.-	Two Hundred	3,460.-
1.08	55.0	CY	90" Pipe Outlet Headwall & Side Walls	300.-	Three Hundred	16,500.-
1.09	14.4	CY	90" Pipe Outlet Apron & Vertical Fins	300.-	Three Hundred	4,320.-
1.10	1	LS	60" Pipe Stub in 90" Outlet Wall	3000.-	Three Thousand	3,000.-
1.11	1	LS	48" Pipe Stub in 90" Outlet Wall	2000.-	Two Thousand	2,000.-

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
1.12	11.3	CY	48" Pipe Headwall & Wings (2 each) @ D	500.-	Five Hundred	5,650.-
1.13	24.8	CY	10 x 9 Box Culvert Entrance @ F	300.-	Three Hundred	7,440.-
1.14	22.3	CY	Headwall & Wings @ F	600.-	Six Hundred	13,380.-
1.15	142.4 140.9	CY	Culvert Barrels @ G	200.-	Two Hundred	28,480.-
1.16	1	LS	8 Roadway Drains @ G	150.-	One Hundred Fifty	150.-
1.17	35.5 36.5	CY	Outlet Headwall & Wings @ G	200.-	Two Hundred	7,100.-
1.18	14.9	CY	Culvert Inlet Headwall & Wings @ G	150.-	One Hundred Fifty	2,235.-
1.19	355.8	CY	Culvert Barrels @ I	200.-	Two Hundred	71,160.-
1.20	14.0	CY	Culvert Outlet Headwall & Wings @ I	200.-	Two Hundred	2,800.-
1.21	20.7	CY	Culvert Inlet Headwall & Wings @ I	200.-	Two Hundred	4,140.-

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
2.01	238	SY	Gunite Apron @ G & 48" Pipe Inlet	20.-	Twenty	4760.-
2.02	1924	SY	Gunite Slopes Exposed Surface	20.-	Twenty	38,480.-
2.03	356	SY	Gunite Slope Tie Down or Cut-Off Walls	20.-	Twenty	7,120.-
2.04	1805	SY	4" Bomanite Surface	40.-	Forty	72,200.
2.05	10	SY	6" Bomanite Driveway @ B	200.-	Two Hundred	2,000.
2.06	514	SY	Bomanite Slope Tie Down or Cut-Off Walls	40.-	Forty	20,560.
2.07	886	SY	Gabions on Bank @ H	50.-	Fifty	44,300.
2.08	$\frac{1}{2}$	LS	Gabion Repair @ F & G TWO LOCATIONS	1500.-	Fifteen Hundred	1,500.
2.09	1225	SY	Burried Rock Protection w/Plastic Mat @ A,B,D,H	15.-	Fifteen	18,375.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
3.01	1572	LF	90" Pipe D to F	152.-	One Hundred Fifty Two	238,944.
3.02	915	LF	60" Pipe at D	75.-	Seventy Five	68,625.
3.03	780	LF	48" Pipe at D	55.-	Fifty Five	42,900.
3.04	1	LS	60" Pipe Connection	5,000.-	Five Thousand	5,000.-
3.05	$\frac{1}{2}$	LS	MH in 90" Pipe Two Locations	4,500.-	Forty Five Hundred	4,500.-
3.06	$\frac{1}{2}$	LS	MH in 60" Pipe Two Locations	4,000.-	Four Thousand	4,000.-
3.07	214	LF	15" RGRCP Class IV at B, C	55.-	Fifty Five	11,770.
3.08	26	LF	15" RGRCP Class III at G	60.-	Sixty	1,560.-
3.09	42	LF	12" RGRCP Class III at G	40.-	Forty	1,680.-
3.10	90	LF	12" RGRCP Class IV at G	45.-	Forty Five	4,050.
3.11	54	LF	24" Pipe RCP Class III connections to catch basins at E.	60.-	Sixty	3,240.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
3.12	1	LS	27 x 43 ACMP @ D	2,000.-	Two Thousand	2,000.-
3.13	1	LS	12" CMP Galvanized End Section	100.-	One Hundred	100.-
3.14	3	EA	Flap Gate & Chamber at G (12")	200.-	Two Hundred	600.-
3.15	1	LS	Flap Gate & Chamber at G (15")	300.-	Three Hundred	300.-
3.16	4	EA	Catch Basin Det. 531 at B, C, F	1,500.-	Fifteen Hundred	6,000.-
3.17	1	EA	Catch Basin Det. 535 W/Grate at E	1,000.-	One Thousand	1,000.-
3.18	4	EA	Catch Basin Det. 530 at G	1,500.-	Fifteen Hundred	6,000.-
3.19	2	EA	Catch Basin Det 532	2,000.-	Two Thousand	4,000.-
4.01	158,661 171,131	CY	Excavation in Open Areas	2.75	Two Seventy Five	436,317.-
4.02	305	CY	Excavation in Small Areas D, E, G	30.-	Thirty	9,150.-
4.03	3035 213.7	CY	Excavation for Structures	35.-	Thirty Five	106,225.-

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
4.04	399	CY	Fill Bank (Gold Dust to Berneil Ditch)	20.-	Twenty	7980.-
4.05	80	CY	Fill Silt Trap Dike at D	30.-	Thirty	2,400.-
5.01	670	LF	Sawcut Edges of Pavement & Concrete	10.-	Ten	6,700.-
5.02	6,024	SY	Subgrade Preparation	3.-	Three	18,072.
5.03	1,599	SY	4" ABC Road on Ditch Bank	2. ⁵⁰	Two Dollars Fifty Cents	3,997.50
5.04	1,592	SY	12" ABC On Scottsdale	3.-	Three	4,776.-
5.05	1,592	SY	3" AC Type B1 on Scottsdale	5.-	Five	7,960.
5.06	1,592	SY	1" AC Type D1/2 on Scottsdale	2. ⁵⁰	Two Dollars Fifty Cents	3,980.
5.07	2,507	SY	3" C3/4 AC on 8" ABC at B, C, E, F	11.-	Eleven	27,577.
5.08	308	SY	2" C3/4 AC on 4" ABC Driveway @ B, C	7.-	Seven	2,156.
5.09	23	SY	Pavement replacement over pipe @ F	40.-	Forty	920.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
5.10	344	LF	Thickened AC Edge, Det. 201-B	5.-	Five	1,720.-
5.11	170	LF	6" x 6" AC Curb @ B	5.-	Five	850.-
5.12	88	LF	6" Single Curb @ B, C	15.-	Fifteen	1320.-
5.13	1,241	LF	6" VC & G @ B, C, E, F, I	7.-	Seven	8,687.-
5.14	2,929	SF	Conc. VG & Aprons at B, I	3.-	Three	8,787.-
5.15	2,334	SF	Conc. S/W & Ramps at B, C, I	2.-	Two	4,668.-
5.16	5,798	SF	8' Conc. Bike Path	2.-	Two	11,596.-
5.17	2	EA	Survey Monument at I	200.-	Two Hundred	400.-
5.18	1	LS	6" ABC Detour Construction & Removal	15,000.-	Fifteen Thousand	15,000.-
6.01	220	LF	Lower 12" D.I.P. waterline and fittings @ B & I	95.-	Ninety Five	20,900.-
6.02	66	LF	8" D.I.P. Waterline & Fittings @ B	60.-	Sixty	3,960.-

Project No. 8916

BASE BID PROPOSAL

Page 3

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
6.03	220	LF	Lower 6" D.I.P. Waterline & Fittings @ C, I	70.-	Seventy	15,400.-
6.04	1	LS	Lower Water Service Under Channel @ I	500.-	Five Hundred	500.-
6.05	4	EA	12" V.B. & C. Type C	900.-	Nine Hundred	3,600.-
6.06	1	EA	8" V.B. & C. Type C	500.-	Five Hundred	500.-
6.07	3	EA	6" V.B. & C. Type C @ C, I	300.-	Three Hundred	900.-
6.08	$\frac{1}{2}$	LS	Reset F.H. w/V.B. & C. @ F & I Two Locations	900.-	Nine Hundred	900.-
6.09	1	LS	Connect 4" VCP Sewer to M. H. @ H	600.-	Six Hundred	600.-
6.10	115	LF	4" Sewer Connection	30.-	Thirty	3450.-
6.11	$\frac{1}{2}$	LS	4" Sewer Clean Outs at I Two Locations	400.-	Four Hundred	400.-
6.12	1	LS	M.H. Shaft & Cover Over Culvert ^{AND STEPS} @ I	1300.-	Thirteen Hundred	1300.-
6.13	1	LS	M.H. Rim & Water Tight Cover Inside Culbert @ I	2000.-	Two Thousand	2,000.-

TOTAL BASE BID _____ DOLLARS

CONTRACTOR'S NAME _____

_____ CENTS

Project No. 8916

BASE BID PROPOSAL

Page 1

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
7.01	3,964	SY	Remove AC Street or D/W Pavement @ B, C, E & F	2.-	Two	7,928.-
7.02	1,166	LF	Remove Conc. Curb/Curb & Gutter @ B,C,E,F, I	2.-	Two	2,332.-
7.03	2,713	SF	Remove Conc. V.G./Apron/Driveway @ B,C,E,F	3.-	Three	8,139.-
7.04	1,978	SF	Remove Conc. S/W @ B, C, I	2.-	Two	3,956.-
7.05	1	LS	Remove Sump Pump & PVC Pipe @ B	1500.-	Fifteen Hundred	1,500.-
7.06	1,379 1424	SY	Remove Gunite Channel Lining @ B, C, F, G + N E D.	1.-	One Dollar	1,424.-
7.07	1	EA	Remove End of 12" Pipe & Headwall @ C	300.-	Three Hundred	300.-
7.08	1	LS	Remove 72" Conc. Culvert, Headwalls & Handrails @ C	2,000.-	Two Thousand	2,000.-
7.09	293	LF	Remove 6' Block Wall	5.-	Five	1,465.-
7.10	1	LS	Remove Gabions @ F, G	500.-	Five Hundred	500.-
7.11	190	LF	Remove 12" CMP @ F	15.-	Fifteen	2,850.-
7.12	1 258	LS	Construct 6' Block Wall 258 LF	3100.-	Thirty One Hundred	3,100.-

TOTAL BASE BID _____ DOLLARS

CONTRACTOR'S NAME _____

_____ CENTS

Project No. 8916

BASE BID PROPOSAL

Page 1

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
7.13	1	LS	Relocate Sign @ F	500.-	Five Hundred	500.-
7.14	703	LF	Handrails	30.-	Thirty	21,090.
7.15	1	LS	Top Gate on 90" Outlet Structure	5000.-	Five Thousand	5,000.
7.16	1	LS	90" Pipe Inlet Barrier Gate & Latch	1500.-	Fifteen Hundred	1,500.
7.17	$\frac{1}{2}$	LS	48" Pipe Trash Racks Two Locations	800.-	Eight Hundred	800.-
7.18	1	LS	Miscellaneous Work	40,000.-	Forty Thousand	40,000.
7.19	1	LS	Miscellaneous Landscape Work	7,000.-	Seven Thousand	7,000.
7.20	1	LS	Traffic Control	25,000.-	Twenty Five Thousand	25,000.
7.21	1	LS	Striping	750.-	Seven Hundred Fifty	750.
7.22	1	LS	Traffic Signal Relocation @ F	12,000.-	Twelve Thousand	12,000.
7.23	1	LS	Traffic Signal Relocation @ I	13,000.-	Thirteen Thousand	13,000.
						<u>\$1,762,972.</u>

TOTAL BASE BID One Million Seven Hundred DOLLARS
Sixty Nine Thousand Nine Hundred CENTS
Seventy Two Dollars Twenty Five Cents

CONTRACTOR'S NAME C.S. CONSTRUCTION INC.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
8.01	2319 2,329	SY	Gabions to replace Bomanite EXCEPT 6" THICK D/W @	32.-	Thirty Two	74,208.
8.02	1	LS	Exposed Aggregate Wall Surface Treatment	8000.-	Eight Thousand	8,000.
8.03	1805	SY	EXPOSED COARSE Aggregate Concrete To replace Bomanite surface	20.-	Twenty	36,100.
8.04	514	SY	COARSE Aggregate Concrete To replace Bomanite Slope Tie-Down or Cut off walls	20.-	Twenty	10,280.
						<u>\$128,588.</u>

CONTRACTOR'S NAME C.S. CONSTRUCTION INC.

TOTAL ALTERNATE BID One Hundred Twenty Eight Thousand Five DOLLARS
Hundred Eighty Eight Dollars ^{and} No CENTS

BID CALL #84-86

PROPOSAL

THIS PROPOSAL IS SUBMITTED BY C S CONSTRUCTION, INC.,
 a corporation organized under the laws of the State of ARIZONA,
 a partnership consisting of _____
 or individual trading as _____
 of the City of PEORIA

By submitting this proposal I (or we) hereby agree to enter into the Contract included in the bid documents and I (or we) further agree that this proposal incorporates by reference to the same extent as if set forth herein in full all of the terms and conditions contained in said bid documents identified as BID CALL NO. 84-86, PROJECT NO. 8916, including Plans, Standard Specifications and Details, Project Manuals, Special Provisions, Addenda, if any, Performance Bond, Payment Bond and Certificates of Insurance.

Respectfully submitted,

FIRM: C S CONSTRUCTION, INC

ADDRESS: 8290 N 75TH AVE

PEORIA, AZ 85345

TEL. NO.: 602 979-8088

DATE: 6/4/84

BY: Michael R. Ford
 OFFICER AND TITLE (SEAL)

ATTEST:

Tracy Dayton
 OFFICER AND TITLE

WITNESS: IF BIDDER IS AN INDIVIDUAL

CLAIM FOR REIMBURSEMENT
GENERAL PROJECT COSTS

Project Title PVSP DRAINAGE SYSTEM Sponsor CITY OF SCOTTSDALE

Claim No. TESTING

Date _____

Payee	Amount	Purpose	Warrant	
			Number	Date
Container Supply	458.17	Conc. Test Cylinders	92883	11/16/84
Western Tech	97.50	Testing	50411	9/28/84
Fox & Assoc.	869.32	Testing	51808	10/26/84
Western Tech	263.75	Testing	51636	10/19/84
Western Tech	65.00	Testing	92712	11/9/84
Western Tech	210.00	Testing	92712	11/7/84
Western Tech	27.50	Testing	92712	11/9/84
Western Tech	27.50	Testing	93129	11/16/84
Western Tech	55.00	Testing	93419	11/21/84
Fox & Assoc.	36.57	Testing	94080	12/14/84
Western Tech	55.00	Testing	96795	12/7/84
Western Tech	203.50	Testing	94395	12/14/84
Western Tech	85.50	Testing	95052	12/21/84
Western Tech	73.50	Testing	95052	12/21/84
Western Tech	80.00	Testing	95296	12/28/84
Western Tech	322.00	Testing	99605	3/1/85
Western Tech	220.50	Testing	01614	3/29/85
Western Tech	80.00	Testing	01115	3/22/85
Container Supply	388.19	Conc. Test Cylinders		
Western Tech	80.00	Testing	01929	
Western Tech	55.00	Testing		
	3753.50			

CLAIM FOR REIMBURSEMENT
GENERAL PROJECT COSTS

Project Title PVSP DRAINAGE SYSTEM Sponsor CITY OF SCOTTSDALE

Claim No. ENGINEERING Date _____

Payee	Amount	Purpose	Warrant	
			Number	Date
Steele & Jensen	4450.00	Engineering	32515	12/2/83
Steele & Jensen	8900.00	Engineering	35104	1/20/84
Steele & Jensen	4450.00	Engineering	46319	7/20/84
Steele & Jensen	9950.00	Engineering	46621	7/25/84
Steele & Jensen	4837.50	Engineering	48840	8/31/84
Steele & Jensen	3225.00	Engineering	50368	9/28/84
Steele & Jensen	1612.50	Engineering	93085	11/16/84
Steele & Jensen	1612.50	Engineering	93797	11/30/84
Steele & Jensen	1176.25	Engineering	96330	1/18/85
Burgess & Niple	806.25	Engineering	00775	3/22/85
Burgess & Niple	1612.50	Engineering	01302	3/29/85
Burgess & Niple	1612.50	Engineering		
Burgess & Niple	3165.00	Restaking charges		
	47,410.00			

CLAIM FOR REIMBURSEMENT
GENERAL PROJECT COSTS

Project Title PVSP DRAINAGE SYSTEM Sponsor CITY OF SCOTTSDALE

Claim No. CONSTRUCTION

Date _____

Payee	Amount	Purpose	Warrant	
			Number	Date
C. S. Construction	81,000.00	Construction	47776	8/17/84
C. S. Construction	363,191.00	Construction	49338	9/14/84
C. S. Construction	321,801.00	Construction	50865	10/12/84
C. S. Construction	477,262.50	Construction	92445	11/9/84
C. S. Construction	246,667.00	Construction	94004	12/14/84
C. S. Construction	31,501.00	Construction	96149	1/18/85
C. S. Construction	203,601.50	Construction	98615	2/22/85
C. S. Construction	130,046.75	Construction	99128	3/29/85
C. S. Construction	79,571.49	Construction		
	<u>1,934,642.24</u>			

CLAIM FOR REIMBURSEMENT
GENERAL PROJECT COSTS

Project Title PVSP DRAINAGE SYSTEM Sponsor CITY OF SCOTTSDALE

Claim No. INSPECTION Date _____

Payee	Amount	Purpose	Warrant	
			Number	Date
Tech Aid	297.76	Inspection	49978	9/21/84
Tech Aid	744.40	Inspection	49978	9/21/84
Tech Aid	744.40	Inspection	50382	9/28/84
Tech Aid	744.40	Inspection	51101	10/12/84
Tech Aid	744.40	Inspection	51101	10/12/84
Tech Aid	744.40	Inspection	51986	10/26/84
Tech Aid	744.40	Inspection	93098	11/16/84
Tech Aid	744.40	Inspection	93810	11/30/84
Tech Aid	725.79	Inspection	93098	11/16/84
Tech Aid	744.40	Inspection	93810	11/30/84
Tech Aid	744.40	Inspection	95000	12/21/84
Tech Aid	744.40	Inspection	94344	12/14/84
Tech Aid	744.40	Inspection	94999	12/21/84
Tech Aid	744.40	Inspection	94999	12/21/84
Tech Aid	446.64	Inspection	94999	12/21/84
Tech Aid	744.40	Inspection	96338	1/18/85
Tech Aid	744.40	Inspection	95940	1/11/85
Tech Aid	744.40	Inspection	97170	1/25/85
Tech Aid	744.40	Inspection	97600	2/1/85
Tech Aid	595.52	Inspection	97600	2/1/85
Tech Aid	595.52	Inspection	98825	2/22/85
Tech Aid	744.40	Inspection	99569	3/1/85
Tech Aid	967.68	Inspection	99569	3/1/85
Tech Aid	744.40	Inspection	00118	3/8/85
Tech Aid	883.95	Inspection	01895	4/12/85
Tech Aid	1,079.32	Inspection	01895	4/12/85
Tech Aid	883.95	Inspection	01895	4/12/85
Tech Aid	883.95	Inspection	01895	4/12/85
	20,759.28			