

TO: JAMES L. APP, CITY MANAGER
FROM: DITAS ESPERANZA, CITY ENGINEER *DE*
SUBJECT: AESTHETIC DESIGN FOR WATER TANKS
DATE: FEBRUARY 1, 2000

Needs: For the City Council to select an option for the aesthetic design of the water tanks at Rolling Hills Road.

- Facts:**
1. The City Council adopted a Capital Improvement Program (CIP) in which \$4 million dollars was budgeted to construct a new water tank adjacent to an existing tank at Rolling Hills Road.
 2. The CIP budget included up to 1 million dollars to be used to install aesthetic design features for both the existing and the new tanks.
 3. One aesthetic design feature which included fabricated rock outcroppings was presented to the City Council on December 21, 1999.
 4. At the December meeting, the City Council directed staff to develop other options (in addition to the rock outcroppings) and present these options back to the City Council for consideration.

**Analysis
and**

Conclusion: The City's consultant developed three design features for consideration.

Attached are details and exhibits for these 3 different options and summarized as follows:

Option A

Includes berms, fabricated rock outcroppings and landscaping.
Estimated Cost - \$730,000

Option B

Includes berms, retaining walls and landscaping.
Estimated Cost - \$430,000

Option C

Includes berms. and landscaping.
Estimated Cost - \$300,000

Policy

Reference: Adopted Capital Improvement Program
Water Master Plan

Fiscal

Impact: Dependant upon option selected.

- Options:**
- A. For the City Council to direct staff to proceed with one of the aesthetic design features.
 - B. That the City Council amend, modify or reject the above option.

Attachments: (2)

- 1) Conceptual Site Plans & Sections
- 2) Color Photos

DATE: Jan 18, 2000
 JOB No.: 2,2413.000
 JOB NM: Paso Water Tank Analysis
 CALC BY: Jlee
 CHK BY: _____

ENGINEERING DEVELOPMENT ASSOCIATES
1320 Nipomo Street/San Luis Obispo, CA 93401
 phone: (805)549-8658 fax: 805.549.8704 email: eda@edainc.com

PASO ROBLES WATER TANK - SCREENING OPTION
BERMS, ROCKS AND LANDSCAPING



| CAT. | ITEM | QUANT | UNIT | COST/UNIT | COST | DESCRIPTION |
|------------------|---------------------|--------|------|-----------|----------|-------------|
| EARTHWORK | | | | | | |
| | CLEARING & GRUBBING | 2 | AC | 850.00 | \$1,275 | |
| | CUT | 2,000 | CY | 1.50 | \$3,000 | |
| | FILL | 49,000 | CY | 2.00 | \$98,000 | |

Demo & Earthwork Subtotal: \$102,275

| | | | | | | |
|--------------------|-----------------|---|----|-----------|-----------|--|
| FORMED ROCK | | | | | | |
| | ROCK FORMATIONS | 1 | LS | 350000.00 | \$350,000 | |

Walls Subtotal: \$350,000

| | | | | | | |
|-----------------------|----------------------------|--------|----|-------|----------|--|
| MISCELLANEOUS: | | | | | | |
| | CHAIN LINK FENCE, 6' (M-4) | 675 | LF | 12.00 | \$8,100 | |
| | LANDSCAPE AND IRRIGATION | 80,000 | SF | 1.00 | \$80,000 | |

Miscellaneous Subtotal: \$88,100

| | | | | | |
|-------|--------------------|--|--|--|--|
| AC | ACRE | | | | |
| CY | CUBIC YARD | | | | |
| EA | EACH | | | | |
| LF | LINEAR FOOT | | | | |
| LS | LUMP SUM | | | | |
| SF | SQUARE FOOT | | | | |
| IN/SF | INCHES/SQUARE FOOT | | | | |
| HR | HOUR | | | | |

SUBTOTAL: \$540,375
 CONTINGENCIES & INFLATION (20% of subtotal): \$108,075
 ENGINEERING (soils, staking, inspection)(15% of subtotal): \$81,056
GRAND TOTAL: \$729,506

THIS ESTIMATE WAS PREPARED USING STANDARD COST AND/OR QUANTITY ESTIMATE PRACTICES. IT IS UNDERSTOOD AND AGREED THAT THIS IS AN ESTIMATE ONLY, AND THAT THE ENGINEER SHALL NOT BE LIABLE TO THE OWNER OR TO A THIRD PARTY FOR ANY FAILURE TO ACCURATELY ESTIMATE THE COST AND/OR QUANTITIES FOR THE PROJECT, OR ANY PART THEREOF.

THIS ENGINEER'S ESTIMATE IS PREPARED AS A GUIDELINE AND DOES NOT CONSTITUTE THE BASIS FOR BID. THE CONTRACTOR IS TO PERFORM HIS/HER OWN QUANTITY TAKE-OFF AND TO BID ACCORDINGLY. IN THE EVENT THAT ERRORS OR OMISSIONS ARE ENCOUNTERED THROUGH THE BIDDING PROCESS, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THIS PRELIMINARY ESTIMATE IS TAKEN FROM SCHEMATIC DRAWINGS AND SHOULD BE USED FOR COMPARISON PURPOSES ONLY.

DATE: Jan 18, 2000
 JOB No.: 2.2413.000
 JOB NM: Paso Water Tank Analysis
 CALC BY: Jlee
 CHK BY: _____

ENGINEERING DEVELOPMENT ASSOCIATES
 1320 Nipomo Street/San Luis Obispo, CA 93401
 phone: (805)549-8658 fax: 805.549.8704 email: eda@edainc.com

PASO ROBLES WATER TANK - SCREENING OPTION **B**
BERMS, WALL AND LANDSCAPING

| CAT. | ITEM | QUANT | UNIT | COST/UNIT | COST | DESCRIPTION |
|------------------|---------------------|--------|------|-----------|-----------|-------------|
| EARTHWORK | | | | | | |
| | CLEARING & GRUBBING | 2 | AC | 850.00 | \$1,275 | |
| | CUT | 2,000 | CY | 1.50 | \$3,000 | |
| | FILL | 64,000 | CY | 2.00 | \$128,000 | |

Demo & Earthwork Subtotal: **\$132,275**

| WALLS | | | | | | |
|--------------|---------|-------|----|-------|----------|--|
| | 10-FOOT | 5,400 | SF | 18.00 | \$97,200 | |

Walls Subtotal: **\$97,200**

| MISCELLANEOUS: | | | | | | |
|-----------------------|----------------------------|--------|----|-------|----------|--|
| | CHAIN LINK FENCE, 6' (M-4) | 675 | LF | 12.00 | \$8,100 | |
| | LANDSCAPE AND IRRIGATION | 80,000 | SF | 1.00 | \$80,000 | |

Miscellaneous Subtotal: **\$88,100**

| | | | | | |
|-------|--------------------|--|--|--|------------------|
| AC | ACRE | | | | |
| CY | CUBIC YARD | | | | |
| EA | EACH | | | | |
| LF | LINEAR FOOT | | | | |
| LS | LUMP SUM | | | | |
| SF | SQUARE FOOT | | | | |
| IN/SF | INCHES/SQUARE FOOT | | | | |
| HR | HOUR | | | | |
| | | | | SUBTOTAL: | \$317,575 |
| | | | | CONTINGENCIES & INFLATION (20% of subtotal): | \$63,515 |
| | | | | ENGINEERING (soils, staking, inspection)(15% of subtotal): | \$47,636 |
| | | | | GRAND TOTAL: | \$428,726 |

THIS ESTIMATE WAS PREPARED USING STANDARD COST AND/OR QUANTITY ESTIMATE PRACTICES. IT IS UNDERSTOOD AND AGREED THAT THIS IS AN ESTIMATE ONLY, AND THAT THE ENGINEER SHALL NOT BE LIABLE TO THE OWNER OR TO A THIRD PARTY FOR ANY FAILURE TO ACCURATELY ESTIMATE THE COST AND/OR QUANTITIES FOR THE PROJECT, OR ANY PART THEREOF.

THIS ENGINEER'S ESTIMATE IS PREPARED AS A GUIDELINE AND DOES NOT CONSTITUTE THE BASIS FOR BID. THE CONTRACTOR IS TO PERFORM HIS/HER OWN QUANTITY TAKE-OFF AND TO BID ACCORDINGLY. IN THE EVENT THAT ERRORS OR OMISSIONS ARE ENCOUNTERED THROUGH THE BIDDING PROCESS, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THIS PRELIMINARY ESTIMATE IS TAKEN FROM SCHEMATIC DRAWINGS AND SHOULD BE USED FOR COMPARISON PURPOSES ONLY.

DATE: Jan 18, 2000
 JOB No.: 2.2413.000
 JOB NM: Paso Water Tank Analysis
 CALC BY: Jlee
 CHK BY: _____

ENGINEERING DEVELOPMENT ASSOCIATES
 1320 Nipomo Street/San Luis Obispo, CA 93401
 phone: (805)549-8658 fax: 805.549.8704 email: eda@edainc.com

PASO ROBLES WATER TANK - SCREENING OPTION
BERMS AND LANDSCAPING



| CAT. | ITEM | QUANT | UNIT | COST/UNIT | COST | DESCRIPTION |
|------------------|---------------------|--------|------|-----------|-----------|-------------|
| EARTHWORK | | | | | | |
| | CLEARING & GRUBBING | 2 | AC | 850.00 | \$1,275 | |
| | CUT | 2,000 | CY | 1.50 | \$3,000 | |
| | FILL | 64,000 | CY | 2.00 | \$128,000 | |

Demo & Earthwork Subtotal: **\$132,275**

MISCELLANEOUS:

| | | | | | | |
|--|----------------------------|--------|----|-------|----------|--|
| | CHAIN LINK FENCE, 6' (M-4) | 675 | LF | 12.00 | \$8,100 | |
| | LANDSCAPE AND IRRIGATION | 80,000 | SF | 1.00 | \$80,000 | |

Miscellaneous Subtotal: **\$88,100**

| | | | | | |
|-------|--------------------|--|--|--|------------------|
| AC | ACRE | | | | |
| CY | CUBIC YARD | | | | |
| EA | EACH | | | | |
| LF | LINEAR FOOT | | | | |
| LS | LUMP SUM | | | | |
| SF | SQUARE FOOT | | | | |
| IN/SF | INCHES/SQUARE FOOT | | | | |
| HR | HOUR | | | | |
| | | | | SUBTOTAL: | \$220,375 |
| | | | | CONTINGENCIES & INFLATION (20% of subtotal): | \$44,075 |
| | | | | ENGINEERING (soils, staking, inspection)(15% of subtotal): | \$33,056 |
| | | | | GRAND TOTAL: | \$297,506 |

THIS ESTIMATE WAS PREPARED USING STANDARD COST AND/OR QUANTITY ESTIMATE PRACTICES. IT IS UNDERSTOOD AND AGREED THAT THIS IS AN ESTIMATE ONLY, AND THAT THE ENGINEER SHALL NOT BE LIABLE TO THE OWNER OR TO A THIRD PARTY FOR ANY FAILURE TO ACCURATELY ESTIMATE THE COST AND/OR QUANTITIES FOR THE PROJECT, OR ANY PART THEREOF.

THIS ENGINEER'S ESTIMATE IS PREPARED AS A GUIDELINE AND DOES NOT CONSTITUTE THE BASIS FOR BID. THE CONTRACTOR IS TO PERFORM HIS/HER OWN QUANTITY TAKE-OFF AND TO BID ACCORDINGLY. IN THE EVENT THAT ERRORS OR OMISSIONS ARE ENCOUNTERED THROUGH THE BIDDING PROCESS, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THIS PRELIMINARY ESTIMATE IS TAKEN FROM SCHEMATIC DRAWINGS AND SHOULD BE USED FOR COMPARISON PURPOSES ONLY.