

DEPARTMENT: Public Works

Michael D. Edwards
Public Works Director

Phone: 966-5356

RECOMMENDED ACTION AND JUSTIFICATION: (Policy Item: Yes ___ No X)

Resolution authorizing a sole-source purchase and installation of an OSHA-approved ladder for maintenance access to the top of the 30-foot high water tank at the Yosemite West Special District, and authorize \$8,500 to be transferred from the Yosemite West Utility Capital Fund.

Current access to the tank is by a portable aluminum ladder. This has created an unsafe working condition and a high liability risk.

Pittsburgh Tank & Tower Company is the only supplier for this style of prefabricated, fixed ladder for bolted-steel water tanks that is also OSHA approved. It includes OSHA-approved handrails, toe plate, safety climb and installation per the appropriate codes. The total costs are as follows:

Ladder, appurtenances, installation	\$7,840.00
Estimated tax	<u>612.00</u>
Total	\$8,452.00

The Yosemite West District Advisory Committee has considered this item and recommends approval by the Board.

BACKGROUND AND HISTORY OF BOARD ACTIONS:

The lack of a proper ladder on one of the two water tanks has been recognized as a safety and maintenance deficiency at Yosemite West. It has been stated as a goal of the Public Works Department to correct.

LIST ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

- Design a custom-fabricated ladder and go out to formal bid. There are possible problems with OSHA approval, given the safety regulations that govern this type of installation. The cost would likely increase.
- No action. A significant maintenance, safety and public health risk would continue to exist for the Yosemite West district.

<p>COSTS: () Not Applicable</p> <p>A. Budgeted current FY \$ -0-</p> <p>B. Total anticipated costs \$ 8,500</p> <p>C. Required additional funding \$ 8,500*</p> <p>D. Internal transfers \$ _____</p> <p>SOURCE: (X) 4/5th Vote Required</p> <p>A. Unanticipated revenues \$ _____</p> <p>B. Reserve for contingencies \$ _____</p> <p>C. Source description: <u>* Yosemite West Utility Capital</u></p> <p>Balance in Reserve Contingencies, if approved: \$ _____</p>	<p>SPECIAL INSTRUCTIONS: List the attachments and number the pages consecutively:</p> <p>1. Budget Action _____</p> <p>2. Cover Letter & Literature _____</p> <p>_____</p> <p>_____</p>
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CLERK'S USE ONLY

Res. No.: 95-385 Ord. No. _____ This item on agenda as:

Vote - Ayes: 4 Noes: _____

Absent: _____ Abstained: _____

Approved Denied

Minute Order Attached No Action Necessary

The foregoing instrument is a correct copy of the original on file in this office.

Date: _____

ATTEST: MARGIE WILLIAMS, Clerk of the Board
County of Mariposa, State of California

By: _____
Deputy

ADMINISTRATIVE OFFICER'S RECOMMENDATION:

- Recommended
- Not Recommended
- For Policy Determination
- Submitted with Comment
- Returned for Further Action

Comment: _____

A.O. Initials: *M*

COUNTY OF
MARIPOSA

BUDGET ACTION FORM

DEPT/DIV: Public Works

CONTACT: Michael D. Edwards

DATE: August 9, 1995

PHONE: 966-5356

ACTION REQUESTED: (Check All That Apply)

- Budget appropriation by Board of Supervisors (4/5ths Vote Required): Amending the total amount available in the County Budget, or in any one fund of the budget, or appropriating Reserve for Contingencies;
- Transfer by Board of Supervisors (3/5ths Vote Required): Moving existing appropriation from one budget to another, or between categories within a budget unit;
- Transfer by Administrator: Moving existing appropriations within a single budget category between line items (i.e. services and supplies, etc.);
- Transfer by Auditor: Moving salaries between line items to accommodate variances internal to salaries; OR transfers within the County budget under \$50.00 to accommodate minor variations from the budget.

<u>FUND/DEPT/ACCT NO.</u>	<u>LINE ITEM DESCRIPTION</u>	<u>AMOUNT (FROM)/TO</u>
535-1400-825-0787	Yosemite West Utility Capital	\$8,500
322-0912-309-1600	Yosemite West Transfer In	\$8,500
322-0912-309-1600	Yosemite West Transfer In	\$8,500
322-0912-871-0682	Fixed Asset Ladder	\$8,500

Justification: See attached Board item.

Department Head Signature: *Michael D. Edwards* Date: 8/9/95
 Approved By: Res. No. 95-385 Clerk: *hwd* Date: 8-22-95
 Administrator: _____ Date: _____
 Auditor: *[Signature]* Date: 8-10-95

AUDITOR'S USE ONLY:

Description: _____ Transfer No.: _____
 _____ B.R. No.: _____

PITTSBURG TANK & TOWER CO., INC.



P. O. BOX 913 - HENDERSON, KENTUCKY 42420-01
INSPECTION • REPAIR • PAINTING • TANKS RAISED, LOW

Post-It™ Fax Note	7671	Date	7-14-95
To	CLIFTON PRICE	From	WENDY #4
Co./Dept.	M.C.D.P.W.	Co.	PT+T
Phone #	209 966-5356	Phone #	502 831-7014
Fax #	209 966-2828	Fax #	502 826-1970

JULY 14, 1995

MR. CLIFTON PRICE
FACILITY MANAGER
MARIPOSA COUNTY DEPARTMENT OF PUBLIC WORKS
4639 BEN HUR ROAD
MARIPOSA, CALIFORNIA 95338
(209) 966-5356
(209) 966-2828 FAX

DEAR MR. PRICE:

ENCLOSED FIND OUR PROPOSAL TO BRING UP TO OSHA REGULATION A
GROUND STORAGE TANK.

WE HAVE BEEN SERVING THE NATION'S TANK NEEDS FOR
SEVENTY-SIX YEARS AND OUR FULLY EQUIPPED AND EXPERIENCED
CREWS SPECIALIZE IN ALL THE SERVICES LISTED ABOVE IN OUR
LETTERHEAD.

OUR COMPANY HAS A CONFINED SPACE ENTRY PROGRAM IN STRICT
CONFORMANCE WITH 29CFR 1910.146 OSHA, WHICH BECAME EFFECTIVE
APRIL 14, 1993. OUR PEOPLE ARE TRAINED IN THIS PROCEDURE
AND IT WILL BE IMPLEMENTED.

WE WILL FURNISH FIVE HUNDRED THOUSAND DOLLARS WORTH OF
INSURANCE FOR OUR MUTUAL PROTECTION. HIGHER LIMITS MAY BE
FURNISHED AT AN ADDITIONAL COST.

TO ACCEPT OUR PROPOSAL, JUST SIGN AND RETURN ONE (1) COPY TO
OUR HENDERSON, KENTUCKY OFFICE.

SINCERELY,

PITTSBURG TANK & TOWER COMPANY, INC.

DON JOHNSTON, PRESIDENT

WDJ/ds

ENCLOSURES

INSPECTION • REPAIR • PAINTING • TANKS RAISED, LOWERED AND MOVED
NEW AND USED TANKS

OPAL (WENDY) WESTBROOK
SALES MANAGER
TEL (502) 831-7014
FAX (502) 826-1970

PITTSBURG TANK & TOWER CO., INC.

P. O. BOX 913
HENDERSON, KENTUCKY 42420-0913
TEL. (502) 826-9000 • FAX (502) 827-4417





PITTSBURGH TANK & TOWER COMPANY, INC.
 HOME OFFICE - P. O. BOX 913 - HENDERSON, KY 42420 - PHONE (502) 826-9000
 FAX NO.: (502) 827-4417
 Painting • Repair • Dismantle • Inspection
 Tanks Raised, Lowered and Moved • New and Used Tanks

YOUR INQUIRY

PROPOSAL NO.

DATE JULY 14, 1995

KINDLY ADDRESS YOUR REPLY TO OUR OFFICE AT HENDERSON, KENTUCKY
 MARIPOSA COUNTY DEPARTMENT OF PUBLIC WORKS
 4639 BEN HUR ROAD
 MARIPOSA, CALIFORNIA 95338
 (209) 966-5356 (FAX-2828)

ATTENTION: CLIFTON PRICE,
 FACILITY MANAGER

GENTLEMEN:

IN ACCORDANCE WITH PRICE, TERMS AND CONDITIONS QUOTED BELOW, WE PROPOSE TO FURNISH:
 ALL LABOR, MATERIAL, EQUIPMENT AND INSURANCE NECESSARY TO COMPLETE THE
 FOLLOWING ON A GROUND STORAGE TANK:

1. * AT THE JUNCTION OF THE ROOF AND LADDER, INSTALL AN OSHA
 REQUIRED HANDRAIL 6' TO THE LEFT & RIGHT, 42" HIGH, COMPLETE
 WITH TOE PLATE..... \$1,850.00
2. FURNISH AND INSTALL _____ SAFETY CLIMB(S) REQUIRED BY OSHA,
 NFPA-22 AND AWWA..... \$1,550.00 EACH
3. FURNISH AND INSTALL EXTERIOR LADDER:
 * IF TANK IS 24' TALL..... \$4,440.00
 IF TANK IS 32' TALL..... \$5,920.00

TERMS: UPON COMPLETION

ACCEPTED.....19.....
 MARIPOSA COUNTY DEPARTMENT OF PUBLIC WORKS
 BY.....
 TITLE.....

RESPECTFULLY SUBMITTED:
 PITTSBURGH TANK & TOWER COMPANY
 BY... *Don Johnston* ...
 TITLE: DON JOHNSTON, PRESIDENT

ALL QUOTATIONS SUBJECT TO ACCEPTANCE WITHIN 90 DAYS

LADDER SAFETY SYSTEMS

LAD-SAF® FLEXIBLE CABLE TYPE

DBI/SALA™ offers a complete line of ladder safety devices to meet the customer's specific requirements. Each design meets or exceeds the performance requirements of OSHA Federal Register 1910.27, FAA RR-S-001301 and ANSI A14.3-1992, and provides an ideal means of protection when climbing a fixed ladder.

The Lad-Saf® flexible cable system consist of a tensioned steel cable running the length of the climbing area. A safety sleeve is attached to the cable. The worker connects himself to the sleeve and begins to ascend or descend at a normal rate without attending to the safety sleeve. Should he slip or fall the sleeve locks onto the cable and prevents further movement until footing can be regained.

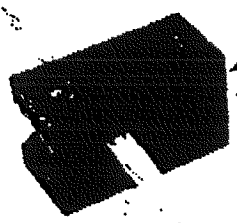


TYPICAL INSTALLATION

Attachment of the flexible cable system can be made to almost any structure (i.e. building, tank, tower, pole) which requires climbing. Mounting brackets for attachment to straight or curved ladders are available. Optional mountings allow for connection of the brackets directly to wood, concrete or steel structures.

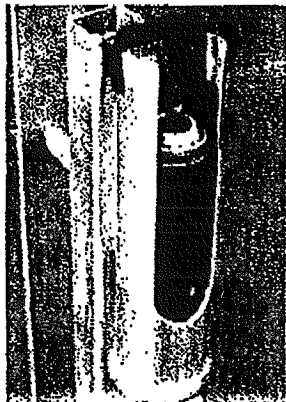
The top bracket incorporates an elastomeric impact attenuator to help absorb the dynamic loads imposed while arresting falls. Non-metallic cable guides reduce cable wear and allow unhindered passage by the climber. The stainless steel detachable safety sleeve connects to a body belt by a specially designed connector.

The system comes complete with all the necessary mounting hardware, top and bottom brackets, cable guides and cable. Safety sleeve, belt and hook must be ordered separately. Galvanized materials standard. Stainless steel available.



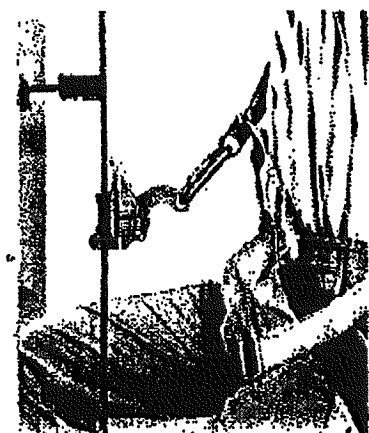
CABLE GUIDE

Manufactured from galvanized steel with molded polyurethane elastomer. Protects cable from rubbing on abrasive objects. Slight body pressure releases cable from guide and allows climber to pass by. Cable will spring back into guide. Positioned approximately every 25 feet.



TOP BRACKET (Cutaway View)

Features elastomeric impact attenuator to help absorb dynamic loads. Cable grip device clamps tighter as load is increased. Top bracket distributes load over several rungs of ladder.



SAFETY SLEEVE, HARNESS AND CONNECTOR

The safety sleeve is manufactured from predominantly stainless steel. Sleeve can be attached or removed at any point along cable. Travels with worker automatically. Locks within inches when a fall occurs. One handed installation, gravity lock to prevent unintentional installation upside down. Part numbers: L3330 safety sleeve, SH-523 hook, order harness separately.



LADDERS AND SAFETY DEVICES

THE AWWA (AMERICAN WATER WORKS ASSOCIATION) D100-84, SECTION 7 ADDRESSES LADDERS AND SAFETY DEVICES AS FOLLOWS:

SECTION 7.4 LADDERS

7.4.1 OUTSIDE TANK LADDER -- THE CONTRACTOR SHALL FURNISH A TANK LADDER ON THE OUTSIDE OF THE BEGINNING 8 FEET, OR AS SPECIFIED, ABOVE THE LEVEL OF THE TANK BOTTOM AND AT A LOCATION TO BE DESIGNATED BY THE PURCHASER, PREFERABLY NEAR ONE OF THE MANHOLES. THE SIDE RAILS SHALL NOT BE LESS THAN 2 INCHES X 3/8 INCHES, WITH A SPACING BETWEEN SIDE RAILS NOT LESS THAN 16 INCHES. THE RUNGS SHALL NOT BE LESS THAN 3/4 INCH ROUND OR SQUARE BARS, SPACED 12 INCHES APART ON CENTERS.

7.4.2 INSIDE TANK LADDERS -- INSIDE TANK LADDERS ARE NOT RECOMMENDED FOR COLD CLIMATES WHERE ICE MAY FORM. IF AN INSIDE LADDER IS REQUIRED, THE SIDE RAILS SHALL NOT BE LESS THAN 2 INCHES X 3/8 INCHES, WITH A SPACING BETWEEN SIDE RAILS OF NOT LESS THAN 16 INCHES, AND RUNGS SHALL NOT BE LESS THAN 3/4 INCH ROUND OR SQUARE BARS, SPACED 12 INCHES APART ON CENTER.

7.4.3 ROOF LADDER -- FOR STANDPIPES AND RESERVOIRS WITH ROOFS, UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL FURNISH ACCESS TO ROOF HATCHES AND VENTS. SUCH ACCESS SHALL BE REACHED FROM THE OUTSIDE TANK LADDER.

SECTION 7.5 SAFETY DEVICES

7.5 IF A SAFETY CAGE, REST PLATFORMS, ROOF LADDER HANDRAILS, OR OTHER SAFETY DEVICES ARE REQUIRED BY FEDERAL OR LOCAL LAWS OR REGULATIONS, THE PURCHASER SHALL SO SPECIFY.

PLEASE NOTE -- CURRENT OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) REGULATIONS NO LONGER RECOGNIZE A CAGED LADDER ALONE AS APPROVED. CAGED LADDERS REQUIRE REST PLATFORMS AT 20 FEET INTERVALS. IN LIEU OF THIS OTHER OSHA APPROVED SAFETY CLIMBING DEVICES MAY BE INSTALLED ON NEW AND/OR EXISTING LADDERS.