



# TOWN OF FAIRFAX

## STAFF REPORT

### September 6, 2017

**TO:** Mayor and Town Council

**FROM:** Garrett Toy, Town Manager

**SUBJECT:** Award contract for roadway stabilization project for Madrone Road (approx. location 92 Madrone) to RWR Construction Inc. in an amount not to exceed \$120,035

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#### **RECOMMENDATION**

- 1) Authorize the Town Manager to execute a contract with RWR Construction Inc. for a roadway stabilization project at approximately 92 Madrone Rd. in an amount not to exceed \$120,035
- 2) Allocate a project contingency reserve of \$12,000 to be used by the Town Manager to cover unforeseen project costs.
- 3) Appropriate \$72,000 to Fund 52 (Storm Recovery)

#### **BACKGROUND**

In February 2017, severe rainfalls caused portions of the roadway located near 92 Madrone Road in Fairfax to become unstable and collapse. Madrone Road in that location since February has been limited to light vehicle traffic. In March, the Council declared a local emergency waiving the public bidding requirement for the 92 Madrone Road project. On April 1<sup>st</sup>, the President declared the February storms a federal disaster making the project eligible for FEMA reimbursement.

#### **DISCUSSION**

Staff have been working under the assumption that the project's repair costs would be less than the FEMA threshold of \$150,000 after which all projects are required to be publicly bid. However, only one of the five firms contacted submitted an informal estimate. The other firms declined to respond based on availability. Staff did negotiate a slight reduction in the initial, submitted estimate (approx. 6% less). Since we only received one estimate, staff has been working with FEMA to confirm that we can award the contract if no other estimates were received and it is under the FEMA public bidding threshold. FEMA staff believes we can do so, but can't guarantee that it would not be a future audit issue.

#### **FISCAL IMPACT**

The FY17-18 budget lists all storm damage repair projects into one fund (Fund 52 CIP-Storm Recovery). Fund 52 CIP- Storm Recovery budgeted \$25,000 for design and \$60,000 for 92 Madrone construction (note: estimates prior to the preparation of plans and specifications). The construction budget will need to be increased by \$72,000 which includes the project contingency. FEMA and CalOES together will reimburse 93.75% of the project costs. The additional cost to the Town is approximately 6.25% (\$4,500) of the added cost (\$72,000). The additional cost can be absorbed in Fund 52.

**ATTACHMENT:** estimate

SPECIAL MEETING  
AGENDA ITEM # 1



200 Gary Place  
San Rafael, CA 94901

General Engineering Contractor

7/21/17

**To: Mark Lockaby and Mike Jewett  
Town of Fairfax, Department of Public Works  
Revised Estimate for Road Stabilization Work at:  
93 Madrone Road, Fairfax**

What We Based Your Bid On

Drawings: by Miller Pacific Engineering Group Engineer dated 6/12/17 and titled "Road Stabilization 93 Madrone Road, Fairfax California", sheets 1, 2, 3, 4 and 5.

What the Bid is For

(1) 50 ft. long x 5 ft. tall I-beam and Lagging Wall with Tiebacks and Walers

What We Included

Mobilization: (1) only, to jobsite.

Supervision: of RWR workforce.

Grubbing and Clearing:

- Grubb and clear work area of plastic and shrubbery.
- Remove debris from site.

Earth Work:

- Excavate a 50 ft. long, flat, level bench for retaining wall installation.
- Remove excavated spoils from site.

I-beam Piers:

- Drill (10) 18" diameter x 12 ft. deep piers
- Insert (10) W10x22x17 ft. long maximum steel I-beams in piers.
- Fill pier holes with 3000 psi concrete up to bottom of wall.
- Stockpile drilling spoils on site for backfill, re-grading and re-compaction.

Tiebacks:

- Drill and install: **(5) 21 ft. long tiebacks**
  - Rated at 45 kips (*proof test capacity*)
  - 16 ft. bonded + 5 ft. un-bonded length
  - 75-KSI, 1" diameter double corrosion-protected rod in a 6" diameter shaft.
  - Install (1) HSS 12x8x5/8" thick waler at each tieback location.
- Proof test and lock-off tiebacks per engineer's recommendations.



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#### Lagging:

- Apply coal tar epoxy to the exposed portion of the steel I-beams.
- Install 4x12 .40 ACZA pressure treated lagging between I-beams.
- Seal all cut ends with preservative.
- Leave ¼" gap between boards for drainage.

#### Drainage and Backfill

- Install a 12" thick x 4 ft. tall rock drainage pocket behind lagging.
- Backfill and cap retaining wall drainage system with compacted native soil as per plans.

#### Asphalt Work

- Saw-cut (1) 50 ft. long x 5 ft. section of existing asphalt along the new wall location.
- Demolish and remove asphalt debris from site.
- Excavate area (250 sq. ft.) x approx. 8" for base rock installation.
- Remove spoils from site.
- Install a maximum of (250) sq. ft. of 2" thick AC patch over a 6" thick layer of compacted class 2 base rock.

Upper Wall Handrail: Install (50) linear ft. of new pedestrian handrail per details on sheet 3.

Clean-up: Remove RWR construction debris from site.

Demobilization: (1) only, from jobsite.

**Revised Price: \$120,035.00**



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**Contractor's Bid Proposal**  
**93 Madrone Road Roadway Stabilization Project**  
**Project No. 52-574B**  
**Town of Fairfax**

**Base Bid**

Item No.	Item Description	Estimated Quantity	Unit of Measure	Unit Cost (in figures)	Total Cost (in figures)
1	Mobilization, permits, layout of work, daily cleanup, misc. items, demobilization, and final clean up	1	LS	"	\$8,944.00
Item 1A Bond					\$2,928
2	Grading: excavate bench for drilled piers and wall construction, compact fill at wall edges upon completion.	1	LS	"	\$9,534.00
3	Drilled Piers: 18-inch diameter, 12-foot deep, concrete backfill	120	LF	\$79.06	\$9,487.00
4	Construct 50LF, 5-foot high soldier pile and timber lagging wall (10) W10x22 soldier piles with 4x12 PT lagging, with (5) 20-foot, 25 kip tiebacks with HSS 12x6x5/8 waler. Include (1) 6x3x3/8 angle iron for connection at existing concrete wall.	250	SF	\$323.09	\$80,772.00
5	Roadway Reconstruction: reconstruct 50LF of roadway to 5LF behind wall with subgrade preparation, baserock and asphalt	250	SF	\$33.48	\$8,370.00
6	Soil Cover, Hydroseed and Erosion-Control Mats	x	SF	Not Included	

**Total Base Bid:           \$ 120,035.00**

**What's Not Included**

Plans: Provided by the project engineers/architects/designers.

Cost of: permits, testing and inspections.

Increased costs of Excavation or Drilling: due to hard rock, tree roots, caving conditions or underground water. (Hard rock excavation is defined as material that requires the use of pneumatically, hydraulically or 35 pound and over electrically operated hammers or rams to excavate.) (Hard rock drilling is defined as a penetration rate slower than 1ft. in 5 minutes.)



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Utilities: We haven't included any work on utilities, including buried pipes.

Excavation of hazardous materials, underground tanks, or materials unacceptable at dumps

Waterproofing or Site winterization

Erosion control and hydroseeding/Hand-seeding

### What You Also Need to Know

**I-beam Wall Drilling Allowance:** Based on the available information, we have included (2) 8 hr. days or (16 hours) with our 308 CAT operated track drill rig, for drilling (10) pier holes. If the drilling takes longer, we will charge you \$420.00 for each extra hour.

**Tieback Drilling Allowance:** Based on the available information, we have included (2.5) 8 hr. days or (20 hours) with our operated tieback drill rig, for drilling (5) tiebacks. If the drilling takes longer, we will charge you \$320.00 for each extra hour.

**Pier/Tieback Depths:** We've based our drilled pier depths on information provided on the drawings. If we have to go deeper it will be an extra charge.

I-beam piers: Add cost: \$265.00 per ln. Ft. Deduct: <\$52.00 per ln. Ft.>

Tiebacks: Add cost: \$195.00 per ln. Ft. Deduct: <\$35.00 per ln. Ft.>

**Insurance:** We have a \$2 million Aggregate General Liability Policy with Subsidence Coverage, full Workers' Compensation on all workers and a \$6 million Combined Single Limit Commercial Auto Insurance Policy.

**Additional insured:** We can name your municipality as an additional insured on our GL policy with:

Additional Insured Endorsement (Ongoing Operations) CG2010 04/13

Additional Insured Endorsement (Completed Operations) CG2037 0704

This estimate is valid for 30 days

*This Bid has been respectfully submitted by,  
Tony Camacho*

*Would you like to get your project  
scheduled or do you have a question?  
Give me a call!*



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