

Engineering Committee Meeting Minutes
San Juan Water District
May 15, 2023
2:00 p.m.

Committee Members: Dan Rich, Chair
Ken Miller, Member

District Staff: Paul Helliker, General Manager
Tony Barela, Operations Manager
Andrew Pierson, Engineering Services Manager
Adam Larsen, Field Services Manager
Mark Hargrove, Senior Engineer
Teri Grant, Board Secretary/Administrative Assistant

Topics: Annual Paving Services Agreement Amendment with Sierra National Asphalt (R)
Air Release Valve Replacement Program, 2022/2023 (R)
Eureka Road Pipeline Replacement Project (R)
Other Engineering Matters
Public Comment

1. Annual Paving Services Agreement Amendment with Sierra National Asphalt (R)

Mr. Larsen provided a written staff report which will be attached to the meeting minutes. He explained that staff has noticed an increase in the amount of paving from approximately 9k sq. ft. per year to 15k sq. ft. per year and next fiscal year's contract will reflect this. He mentioned that Sacramento County is requiring that the District pave 50' beyond the project when asphalt that is within 5 years old is disrupted.

The Engineering Committee recommends consideration of a motion by the Board to authorize and approve Amendment #5 to the Annual Paving Services agreement with Sierra National Asphalt for FY 2022/23 for a net increase of \$75,000.

2. Air Release Valve Replacement Program, 2022/2023 (R)

Mr. Hargrove provided a written staff report which will be attached to the meeting minutes. He explained that this is the first year of the 17-year replacement program. Mr. Pierson informed the committee that staff will start work soon on the design plans for the fiscal year 23/24 project, and will implement a multi-year contract with the design consultant.

The Engineering Committee recommends consideration of a motion by the Board to authorize and approve the award of a construction contract to Navajo Pipelines, Inc. for the construction of the Air Release Valve Replacement Program 2022/2023 Project for the amount of \$647,200 with a construction contingency of \$64,720 (10%) for a total authorized budget of \$711,920.

3. Eureka Road Pipeline Replacement Project (R)

Mr. Hargrove provided a written staff report which will be attached to the meeting minutes. He informed the committee that the contractor started construction on the new 18-inch water main on February 13, 2023, and encountered several unforeseen conditions that have

caused a change to the original contract scope of work – these conditions are listed in the staff report. He reported that while the contract amendment falls above the project budget, the SRF funding will cover the overage and no other change orders are anticipated.

The Engineering Committee recommends consideration of a motion by the Board to authorize and approve a construction contract amendment with Flowline Contractors, Inc. for the Eureka Road Pipeline Replacement Project in the amount of \$160,000.

4. Other Engineering Matters

Mr. Pierson informed the committee that the draft Wholesale Master Plan was provided to the wholesale customer agencies for review and comments. He stated that comments were received and responded to from Citrus Heights Water District and Fair Oaks Water District, and that staff are now working with the consultant to address these comments in the final document.

GM Helliker informed the committee that the initial year of the master plan CIP will be built into the budget which will be provided to the Board at the May meeting. In addition, he stated that the draft Wholesale Financial Plan will also include the 10-year wholesale master plan CIP. Foundational assumptions in the draft financial plan will be presented to the Board at the May meeting and then the draft financial plan will be presented at the June Board meeting. The 150-day review/comment period for input from the WCAs will then begin shortly thereafter.

The committee discussed additional storage and wholesale groundwater wells, and GM Helliker explained that additional storage or groundwater production would be considered in the context of providing wholesale system reliability, particularly as would be necessary for the next Hinkle replacement project.

Director Miller voiced concern that Accessory Dwelling Units (ADUs) might double the District's water demand without providing additional resources for the extra connection. GM Helliker explained that the last Urban Water Management Plan (UWMP) defined population growth projections, which would be accommodated by new housing or ADUs, so the District's demand projections should cover this. In addition, GM Helliker informed the committee that the next update to the UWMP will be in 2025 and staff will be sure to include projections for ADUs.

5. Public Comment

There were no public comments.

The meeting was adjourned at 2:35 p.m.

STAFF REPORT

To: Engineering Committee
From: Adam Larsen, Field Services Manager
Date: May 15, 2023
Subject: Authorization and Approval of Amendment #5 to the Annual Paving Services Contract for FY 2022/23

RECOMMENDED ACTION

Authorization and approval of Amendment #5 to the Annual Paving Services agreement with Sierra National Asphalt (SNA) for FY2022/23, net increase \$75,000.

BACKGROUND

On June 24, 2020, the Board approved a contract with Sierra National Asphalt in the amount of \$128,250. The Districts contract with Sierra National included two optional, 1-year extension/renewals. The current contract extension expires on June 30, 2023. The District is requesting Board approval for an addition \$75,000 to complete the current backlog of paving work before the current contract expires.

The following detail summarizes the current agreement and proposed additions:

Contract/Amendment	Date	Total	Duration	Completion Date
Original Contract	7/1/2020	\$128,250	365 Days	6/30/2021
Amendment 1 (1st year renewal)	7/1/2021	\$130,000	365 Days	6/30/2022
Amendment 2 (Change Order)	5/17/2022	\$13,000		6/30/2022
Amendment 3 (2nd year renewal)	7/1/2021	\$180,000	365 Days	6/30/2023
Amendment 4 (Change Order)	4/25/2023	\$18,000		6/30/2023
Amendment 5 (Change Order)	5/15/2023	\$75,000		6/30/2023
Proposed Revised Contract		\$544,250	1095 Days	6/30/2023

Sierra National Asphalt's paving work has been exceptional this past year and supportive of our scheduled requirements.

Staff is requesting Board authorization and approval to increase the contract by \$75,000 to meet the additional paving service requirements, the revised contract total for FY 2022/23 will be \$544,250 after Board review and approval.

STAFF REPORT

To: Engineering Committee
From: Mark Hargrove, Senior Engineer
Date: May 15, 2023
Subject: Air Release Valve Replacement Program 2022/2023 – Construction Contract

RECOMMENDED ACTION

Staff requests a recommendation from the Committee for a Board motion to approve a construction contract with Navajo Pipelines, Inc. (Navajo) for the amount of \$647,200 with a construction contingency of \$64,720 (10%) for a total authorized budget of \$711,920.

BACKGROUND

District staff has developed an Air Release Valve Replacement Program (Program) to replace/upgrade all of the existing air release valves (ARVs) that are currently deficient (i.e. broken, not found, cannot be repaired) and/or located within below grade valve boxes to above grade installations to be in compliance with California Code of Regulations, Title 22. The District currently has approximately 880 ARVs in the Retail distribution system with an estimated 750 of these valves venting below grade. Since the implementation of the District’s recurring 5-year ARV maintenance program in 2017 to test and exercise 160 ARVs per year and develop a deficiency list of ARVs, so far 124 ARVs have been identified as being deficient. The Program will consist of replacing 45 ARVs per year over a 17-year period.

This construction contract is for the first 45 ARV replacements in the Program. The ARV’s are located in the northeast portion of the District’s Retail Service Area within the Lower Granite Bay Pressure Zone and Upper Granite Bay Pressure Zone in Granite Bay, Placer County, CA. More specifically, the 45 ARV sites are within the boundaries of Eureka Road and Twin Rocks Road and between Barton Road and Douglas Blvd. The Engineer’s construction estimate is approximately \$585,000.

CURRENT STATUS

Thirteen (13) contractors attended the mandatory pre-bid meeting and five (5) bids were received on May 11, 2023. The Bid outcomes are summarized as follows:

Bidder	Bid Amount
Navajo Pipelines, Inc.	\$647,200
C.E. Cox Engineering, Inc.	\$745,420
BWD Construction, Inc.	\$862,365
ARB, Inc.	\$949,455
Rawles Engineering Inc.	\$1,280,125

Navajo was the lowest responsive, responsible bidder. Navajo’s bid documents were reviewed and found to be complete and in order, including license, insurance, and bonds.

FINANCIAL CONSIDERATIONS

The Project is included in FY 2022/2023 and FY 2023/2024 Retail CIP Budgets.

STAFF REPORT

To: Engineering Committee
From: Mark Hargrove, Senior Engineer
Date: May 15, 2023
Subject: Eureka Road Pipeline Replacement Project – Construction Contract Amendment

RECOMMENDED ACTION

Staff requests a recommendation from the Committee for a Board motion to approve an authorized construction budget increase of \$160,000 to the construction contract with Flowline Contractors, Inc. (Contractor) for the Eureka Road Pipeline Replacement Project (Project).

BACKGROUND

The original Project consisted of replacing approximately 250-ft of 18-in and 3,750-ft of 16-in steel pipeline with 18-in ductile-iron pipeline in Eureka Road between Barton Road and Providence Lane, including tie-ins to the existing lateral water mains and replacing services and fire hydrants. In August 2022, the Board of Directors authorized the Project to be expanded to include abandoning the existing 12-inch steel water main between Providence Lane and Auburn Folsom Road, including swapping over all lateral water mains, fire hydrants, and water services to the existing parallel 16-inch AC water main.

Construction on the Project started in August 2022 with the abandonment of the existing 12-inch steel water main by swapping over of later water mains, fire hydrants and water services while the Contractor was waiting for materials to be delivered for the new 18-inch water main. The Contractor started construction on the new 18-inch water main on February 13, 2023, and has encountered the following unforeseen conditions that have caused a change to the original Contract scope of work:

- Additional potholing of utilities was required because they were not provided on the original utility maps or plans.
- Repair of several leaks on the existing 16-in steel water main were required as they were encountered during potholing.
- Additional switchovers were required of a water service and a lateral water main that were shown incorrectly on District maps connecting to existing 12-in steel water main to be abandoned.
- Additional excavation was required for the new 18-inch pipeline to avoid utilities crossings not shown on or marked on-site.
- Additional excavation, trench stabilization, and pumping were required due to perched groundwater from winter/spring rains.
- Additional sawcutting and paving is required due to thickness of pavement greater than 3-inches along water main (existing pavement in some areas as thick as 12-inches).

In total, the additional work listed above will result in the current authorized budget being exceeded by the amount of \$160,000.

FINANCIAL CONSIDERATIONS

The current authorized construction budget approved by the Board is for \$3,261,358. Staff is recommending increasing the total authorized construction budget to \$3,421,358. The additional costs would be funded with the DWSRF loan.