



District Paving Cost Update for Contract 1902

Board of Directors
September 5, 2023



Presentation Outline

- Review paving Contract 1902 budget
- Highlight recent cost savings on capital pipeline replacement projects and operations paving contract
- Update on our operational paving trends
- Discuss upcoming professional services agreement and pilot paving program
- Highlight other staff initiatives and next steps



Contract 1902 - Not to Exceed Limits

Fiscal Year	Original Contract Amount (\$)	Original Contingency (\$)	Additional Approved Contingency (\$)	Contract Totals (\$)
FY 2020	\$1,610,061.25	\$0	\$200,000	\$1,810,061.25
FY 2021	\$1,762,969.25	\$0	-	\$1,762,969.25
FY 2022	\$1,931,010.00	\$0	\$600,000	\$2,531,010.00
FY 2023	\$2,123,064.25	\$300,000	\$2,000,000	\$4,423,064.25
FY 2024	\$2,138,225.75	\$2,500,000	-	\$4,638,225.75
Total Contract	\$9,565,330.50	\$2,800,000.00	\$2,800,000.00	\$15,165,330.50

Recent Capital Project Paving Cost Savings

Capital Projects

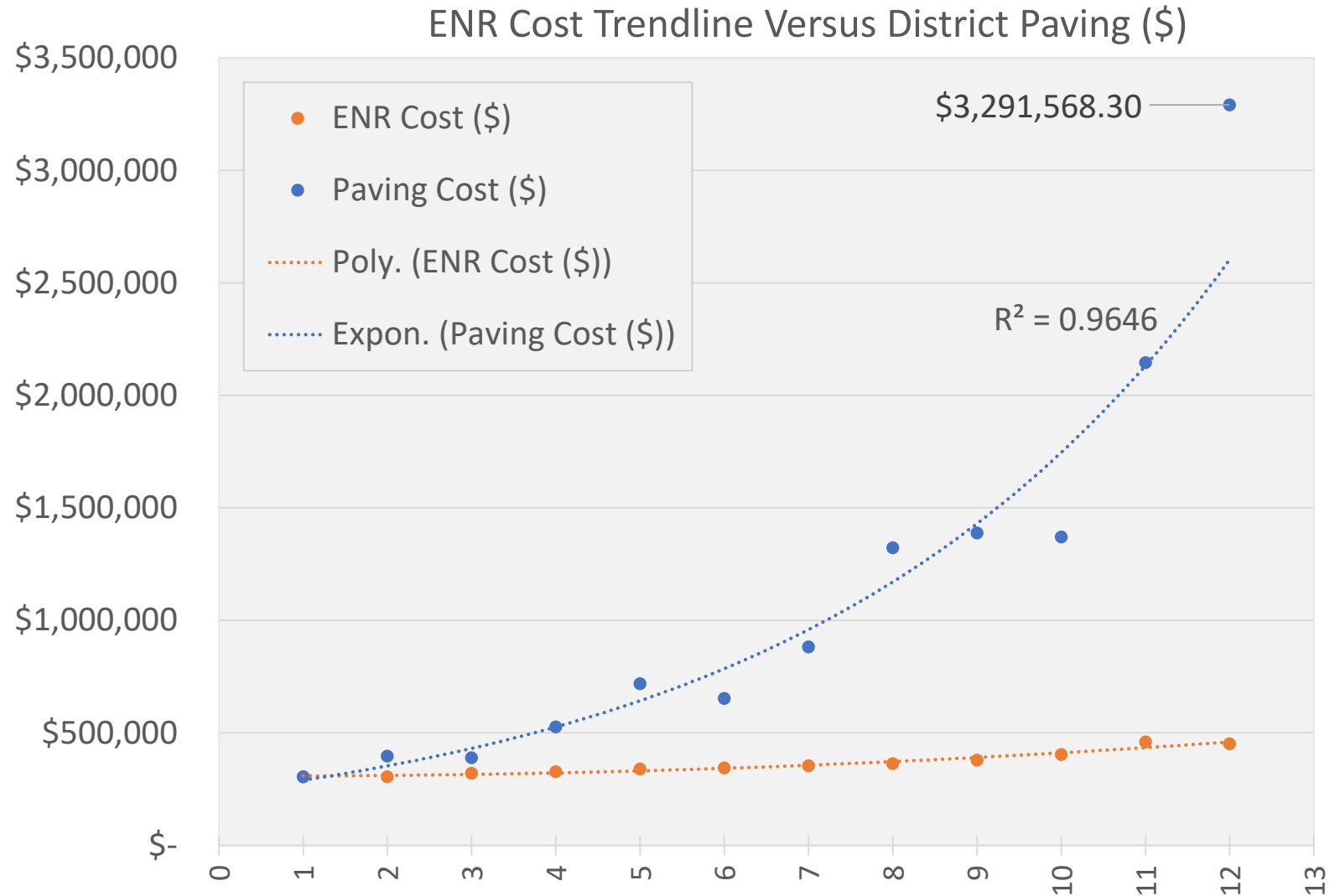
- Optimizing trench location and installation methods during design and construction
- **3Rd Street PRP: \$275,000**
- **Blithedale PRP: \$347,000**
- **Treehaven PRP: \$120,000**

Operations

- Prior to Third Amendment to CN1902, staff negotiated with Contractor to hold asphalt unit pricing for FY24
- **Operations Paving: \$390,000**

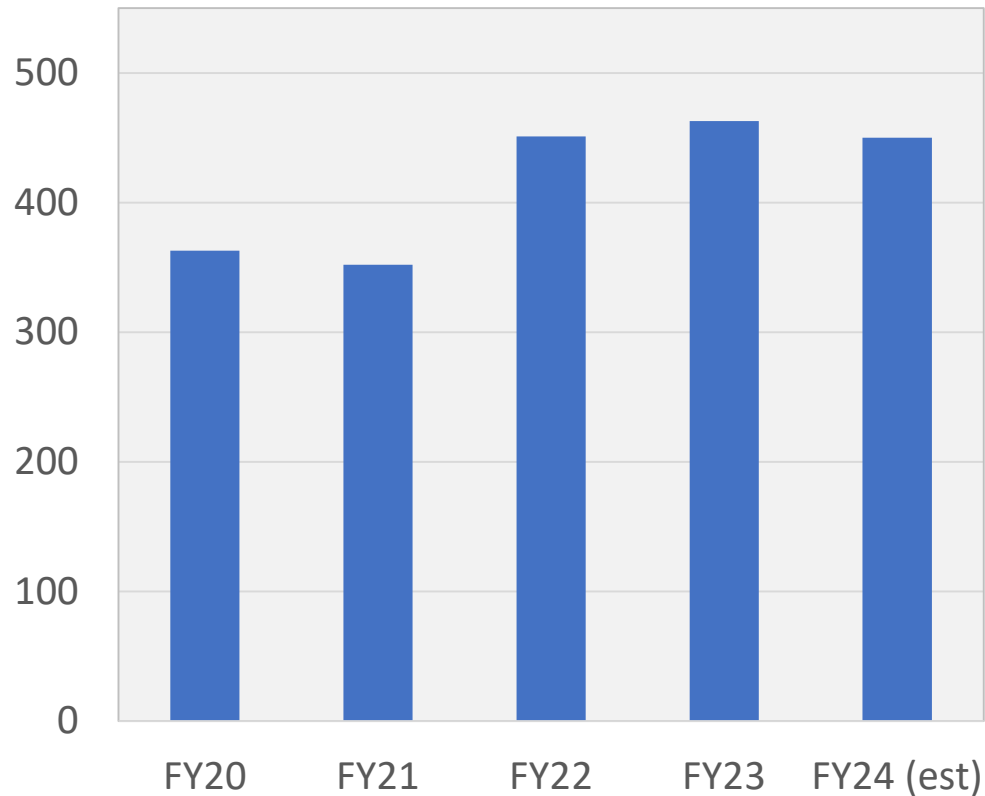
District Paving Expenditures for Operations

- Plot (right) compares Engineering News Record (ENR) Construction Cost Index to District operational paving costs since 2012
- Current contract expenditures fit an exponential growth pattern
- FY23 actual expenditures were \$3.3M for operational paving, and \$3.8M overall
- Since 2012, District operational paving costs have increased **980%** while ENR CCI and contract unit pricing have increased 48% and 160%, respectively

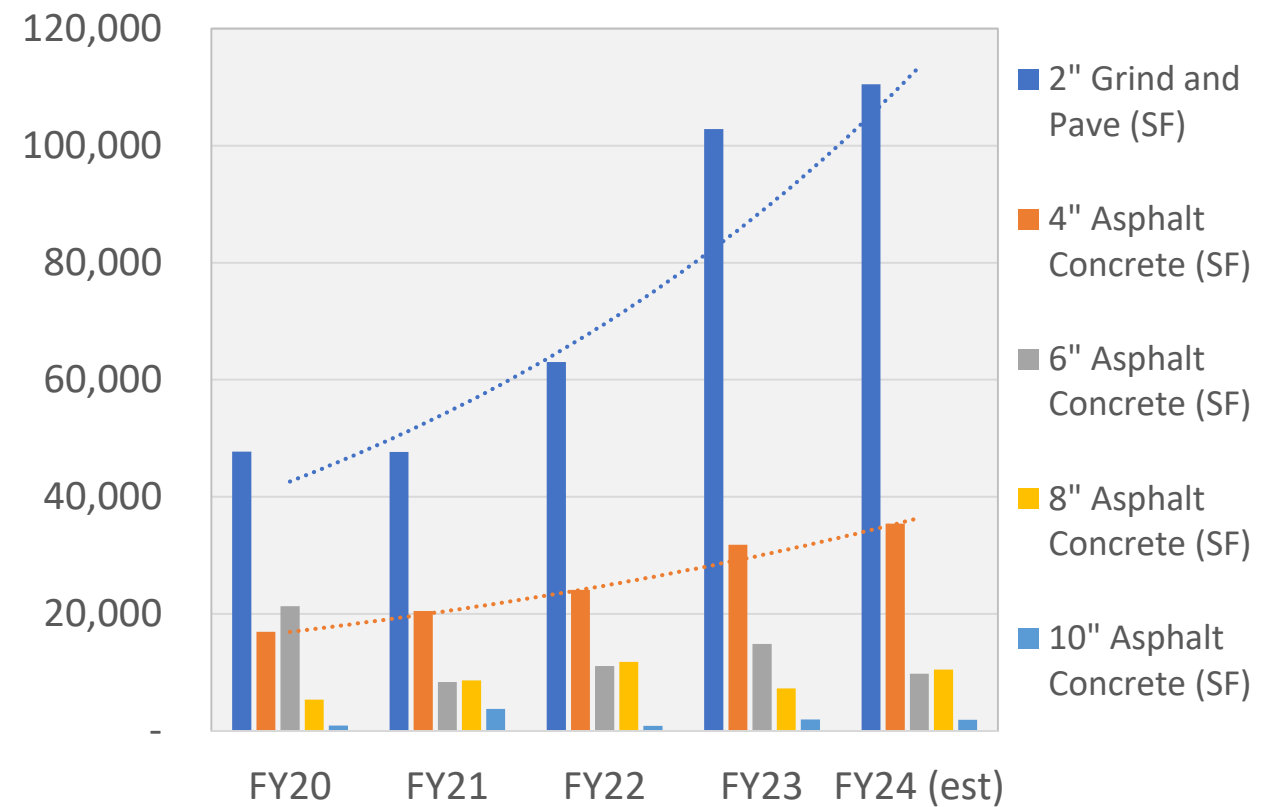


District Street Openings and Paving Trends

Number of Street Openings per Year



Contract Paving (Square Feet)



Proposed District Study – Pilot Program

- Staff has solicited proposals from expert paving consultants to:
 - Evaluate current and historical trench restoration practices
 - Develop alternative structural paving restoration details, paving performance metrics and extended warranties
 - Assist with establishing a Pilot Program with partnering jurisdictions



**MARIN MUNICIPAL WATER DISTRICT
REQUEST FOR PROPOSALS
PAVEMENT MANAGEMENT CONSULTING SERVICES
UNDER PROFESSIONAL SERVICES AGREEMENT**

I. Introduction

The Marin Municipal Water District (District) is seeking proposals from qualified firms to provide pavement management consulting services to support the District's Civil Design and Construction Management Departments within the District's Engineering Division under a Professional Services Agreement (PSA).

To be considered, the proposal and the fee proposal must be submitted by the following method by the due date:

A PDF file via email to the Contact Person listed below (with fee proposal in a separate PDF file):

Marin Water
Engineering Department
220 Nellen Ave
Corte Madera, CA 94925

II. Background

Chartered in 1912, Marin Water is California's first and the oldest municipal water district. We are proud to provide locally sourced water to more than 191,000 customers in central and southern Marin County. Water travels through the District's extensive distribution system—including 908 miles of pipes, 130 storage tanks, and 97 pump stations throughout central and southern Marin County. Refer to **Figure 1** for the location of the District's service area.

The District's Operations Division performs approximately 440 water system leak or main break repairs per year, while the Engineering Division replace upwards of nine miles of water pipeline per year through its Capital and Fire Flow Improvement Programs. The District is experiencing exponential pavement restoration costs for both planned maintenance and emergency repairs, and capital projects within jurisdictions in the County of Marin. District Operations paving costs have increased more than 927 percent between 2012 and 2023, and contract unit costs have increased 160 percent since 2012. By comparison, the Engineering New Record Index (ENR) has increased 54 percent since 2012.

Marin County jurisdictional standards have often led to the District being required to perform full-width pavement restorations in roadways that are decades old, poorly maintained or neglected, show significant distresses as identified in ASTM D6433-20, and have relatively low Pavement

Request for Proposals – Pavement Management Consultant
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Other Staff Initiatives

- Coordinating with jurisdictions early and often to optimize pipeline replacement projects in conjunction with City/County paving projects
- Coordinating with EBMUD, UC Davis Pavement Research Center and UC Berkeley Center for Smart Infrastructure on research study
- Participating in an ACWA Paving Standards Working Group with other water utility stakeholders under the Local Government Committee

Next Steps

- **September 15** – Open proposals for paving management consulting services
- **Winter 2023** – begin collaboration with jurisdictions having authority for pilot program
- **Spring 2024** – Solicit new multi-year operational paving construction contract