

**Proposal  
for  
*Engineering and Design Services for  
Relocation of Sewer Facilities  
in the Middletown LACOSAN Area***

Prepared for:



Jan Coppinger, Administrator  
Lake County Special Districts Administration  
230 N. Main Street  
Lakeport, CA 95453

Submitted by:



Oscar Larson & Associates  
Consulting Engineers, Inc.  
800-660-2043 • [www.olarson.com](http://www.olarson.com)

April 2, 2018

## Table of Contents

---

	<u>Page</u>
1. Cover Letter .....	1
2. Company Profile .....	2
3. Project Understanding and Approach .....	3
4. Scope of Work .....	4
5. Distinguishing Features.....	6
6. Deviations .....	7
7. References .....	8
8. Staffing Organization and Qualifications .....	9
9. Cost Proposal [in a separate sealed envelope] .....	12
Appendix 1 – Resumes .....	13



## 1. Cover Letter

---



Oscar Larson & Associates  
Consulting Engineers, Inc.  
317 Third Street • 2<sup>nd</sup> Floor • Eureka • CA 95501

phone: 707-445-2043 • phone: 800-660-2043  
fax: 707-445-8230  
e-mail: [larson@olarson.com](mailto:larson@olarson.com)  
website: [www.olarson.com](http://www.olarson.com)

April 2, 2018

Ms. Jan Coppinger, Administrator  
Lake County Special Districts Administration  
230 N. Main Street  
Lakeport, CA 95453

Subject: Proposal for Engineering and Design Services for Relocation of Sewer Facilities in the  
Middletown LACOSAN Area

Dear Ms. Coppinger:

Oscar Larson & Associates is pleased to submit this proposal to provide engineering and design services for the relocation of three segments of 8-inch sewer force main and an air/vacuum relief valve as detailed in the request for proposals.

We recently completed the replacement of a section of force main in the City of Eureka including replacement of an air/vacuum relief valve, a project very similar to this project. We will use the same team for this project as was used for the Eureka project: Kenneth G. Davlin, P.E., as Principal in Charge; John N. DeBoice, P.E., Ph.D., as Project Manager; and Gregory M. Hall, P.E., QSD/QSP, as Project Engineer. Further information on their experience and qualifications are presented in this proposal, along with information on our firm and other similar projects.

Thank you for your consideration and we hope to be working with you in this important project.

Sincerely,

OSCAR LARSON & ASSOCIATES  
CONSULTING ENGINEERS, INC.

John N. DeBoice, P.E.



OSCAR LARSON & ASSOCIATES  
Engineering • Planning • Construction Management

LAKE COUNTY  
SPECIAL DISTRICTS



## 2. Company Profile

---

Oscar Larson & Associates (OLA) is a California incorporated consulting engineering firm that has provided a variety of services for clients since 1945, a total of 73 years. We are a certified small business with a skilled staff of 8 professionals and technicians. Our office is located in Eureka. Our company cultivates a reputation which includes open communication, initiative, flexibility, and capable project coordination to deliver high quality engineering, planning, and construction management services to clients.

Our diverse team of engineers has managed hundreds of projects from the application and financial planning phases, through environmental document preparation and approval, design, and construction monitoring support. Our professional and technical staff interacts effectively with each other and the client to identify and meet clients' objectives. We have specialized in providing consulting services for both urban and rural agencies in California, Oregon and Nevada. Over the years we have provided services to 138 government agencies. Our current workload is light and the personnel assigned to this project are immediately available so we do not anticipate any difficulty in completing this project in a timely manner.



### 3. Project Understanding and Approach

---

Our understanding of the needs of the department is that plans and specifications for the relocation of three segments of 8" sewer force main totaling approximately 920' as well as the adjustment to grade of one force main air/vacuum relief facility, in conformance with applicable District and Caltrans Standards, are needed in order to allow bidding and construction to relocate the force main and air/vacuum relief facility. The work is needed to avoid conflicts with a section of State Highway 175 which is to be widened by Caltrans. We understand that the District will provide plans of the existing facilities and the roadway design plans showing the conflicts in AutoCAD dwg format so that surveying will not be required. If not included within those plans, we would also request that the District provide geotechnical information as needed to complete the design.

In summary, our approach to the project will be to initiate the work with a meeting with the District to obtain copies of the relevant materials and discuss specific goals and objectives, such as material preferences and limitations on force main down-times. We would also conduct a site visit to see if there are any obvious conflicts with existing features that would be of concern in the design. It is anticipated that maintaining sewer service during construction will be an issue that will need to be addressed in the design.

Following the meeting and site visit, we will prepare the plans and specifications for submittal to and review by the District at the 60% and 90% completion level, with final bid documents submitted following the 90% review. It is understood that the 60% submittal is to occur at a Project Review Workshop with the District and that additional comments may be provided within a week following the workshop.

Although not requested, we can also provide additional services, at costs to be determined, including assistance with the bidding process, responses to requests for information during construction and prepare record drawings upon completion of construction.

## 4. Scope of Work

---

Our project approach and the specific tasks are as follows. Our anticipated schedule is at the end of this section. We do not anticipate having any subcontractors on this project.

### 1. Kick-off Meeting and Site Visit

We will initiate the work with a meeting with the District to obtain copies of the relevant materials and discuss specific goals and objectives, such as material preferences and limitations on force main down-times. We would also conduct a site visit to see if there are any obvious conflicts with existing features that would be of concern in the design.

### 2. Prepare Plans

We will prepare the plans and submit them for review and comment by the District at the 60% and 90% completion levels. District standards will be incorporated as appropriate. The 60% submittal will be made at a Project Review Workshop with the District. At the work shop we will discuss the plans, our approach to the design and any issues that the District has with the design. It is understood that comments may be made for up to a week after the Project Review Workshop and we have allowed for that in our schedule. The plans will be prepared based on the drawings of the existing force main and air/vacuum relief valve installation, and the Caltrans plans of the roadway improvements. We will copy the appropriate information from those drawings onto our plan and profile sheets and add the necessary information to show to where and how the force main and air/vacuum relief valve are to be relocated. All work will be done to applicable District and Caltrans standards. After receiving comments on the 90% submittal we will prepare the final plans for bidding and submit them to the District. We anticipate providing half and full size hard and pdf copies.

### 3. Prepare Specifications

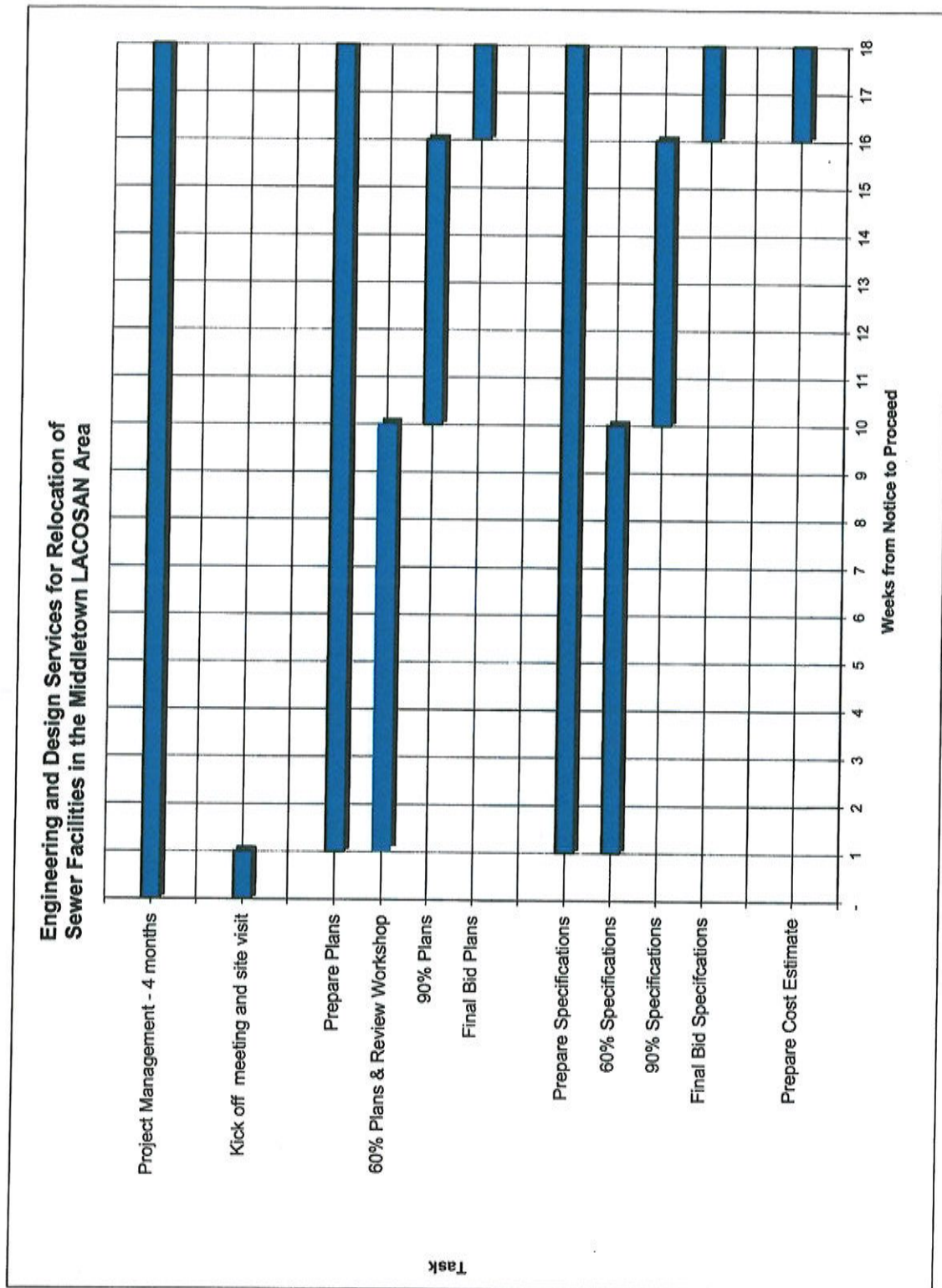
We will prepare the specifications and submit them for review and comment by the District at the 60% and 90% completion levels. District standards will be incorporated as appropriate. The 60% submittal will be made at a Project Review Workshop with the District. At the work shop we will discuss the specifications, our approach to the design and any issues that the District has with the design. It is understood that comments may be made for up to a week after the Project Review Workshop and we have allowed for that in our schedule. All work will be done to applicable District and Caltrans standards. After receiving comments on the 90% submittal we will prepare the final specifications for bidding and submit them to the District. We anticipate providing a hard copy and a pdf copy.

### 4. Prepare Cost Estimate

The cost estimate will be prepared and submitted in draft form with the 90% submittal. The cost estimate will be a detailed breakdown by each bid item. The final cost estimate will be submitted with the final bid set of plans and specifications.



## 4. Scope of Work



## 5. Distinguishing Features

---

Oscar Larson & Associates recently completed a similar project for the City of Eureka, the Cross-Town Interceptor Project, which involved replacement of 820 feet of 20-inch ductile iron pipe with 18-inch P401 lined ductile iron pipe and replacement of air relief and vacuum relief valves with an air relief valve. The vacuum relief valve was not replaced so that the line can act as a siphon once flow is started, reducing the load on the force main pumps.

We anticipate completing the engineering and design work in four months. Assuming a start date of May 1, 2018, the work will be completed by September 1, 2018. This also assumes timely reviews by the District. Our anticipated schedule was shown in the previous section.





## 6. Deviations

---

We do not propose any deviations from the requirements described in the RFP.

## 7. References

---

Company name: City of Eureka  
Address: 531 K Street, Eureka, CA 95501  
Telephone number: 707-441-4152  
Contact: Brian Gerving, Director of Public Works  
Date of work: Completed 12/31/2017  
Approx. dollar value of services rendered: \$31,000 (Cross-Town Interceptor)

Company name: Brooktrails Township Community Services District  
Address: 24860 Birch Street, Willits, CA 95490  
Telephone number: 707-459-2494  
Contact: Denise Rose, General Manager  
Date of work: Started July 2017, Ongoing.  
Approx. dollar value of services rendered: \$33,150 to date. Anticipate \$1,000 to \$2,000 additional.

Company name: McKinleyville Community Services District  
Address: P.O. Box 2037, McKinleyville, CA 95519  
Telephone number: (707) 839-3251  
Contact: Greg Orsini, General Manager  
Date of work: Completed 1/31/2015  
Approx. dollar value of services rendered: \$67,800 (Northern Interconnect Project)

## 8. Staffing Organization and Qualifications

---

The key members of our team are: Kenneth G. Davlin, P.E., as Principal in Charge, John N. DeBoice, P.E., Ph.D., as Project Manager and Gregory M. Hall, P.E., QSD/QSP, as Project Engineer. Summary resumes for each are presented below. Our organization chart is at the end of this section. Complete resumes for the project team are included in Appendix 1.



***Kenneth G. Davlin, PE, MBA, Senior Project Manager*** – Mr. Davlin has over 35 years of experience in the field of civil engineering. His experience includes project management, project scope development, designs, feasibility studies, construction management, and consulting for coastal, hydroelectric, water, sewage, land development, roads and streets, buildings, and industrial, commercial and municipal projects. He practices engineering as a Project Manager, Project Engineer, and Design Engineer for infrastructure development programs. His Project Management and QA/QC skills incorporate financing programs, assessment districts, resource allocation, personnel and system administration.

His experience is broad and includes technical and management responsibilities associated with projects which are represented by the following:

- Water systems up to \$40 million
- Coastal facilities projects up to \$20 million
- Construction inspection and management projects up to \$300 million
- Developments up to \$60 million; residential and commercial
- Financial programs preparation, including assessment districts
- Hydroelectric projects up to \$40 million
- Industrial projects up to \$250 million
- Road/street projects from small projects to five miles of freeway construction on Highway 101
- Site survey projects up to \$300 million

He has served as City Engineer in five California cities: City of Blue Lake – 24 years; City of Trinidad – 8 years; City of Fortuna – 4 years; City of Rio Dell – 7 years; City of Ferndale – 3 years. While City Engineer for Fortuna he worked on road and drainage improvements in the area of the proposed project.

He served as the District Review Engineer during the development of its signature project, a 235-slip marina, and as Engineer of Record for the Humboldt Bay Harbor, Recreation and Conservation District for about \$20 million of projects.



## 8. Staffing Organization and Qualifications

---



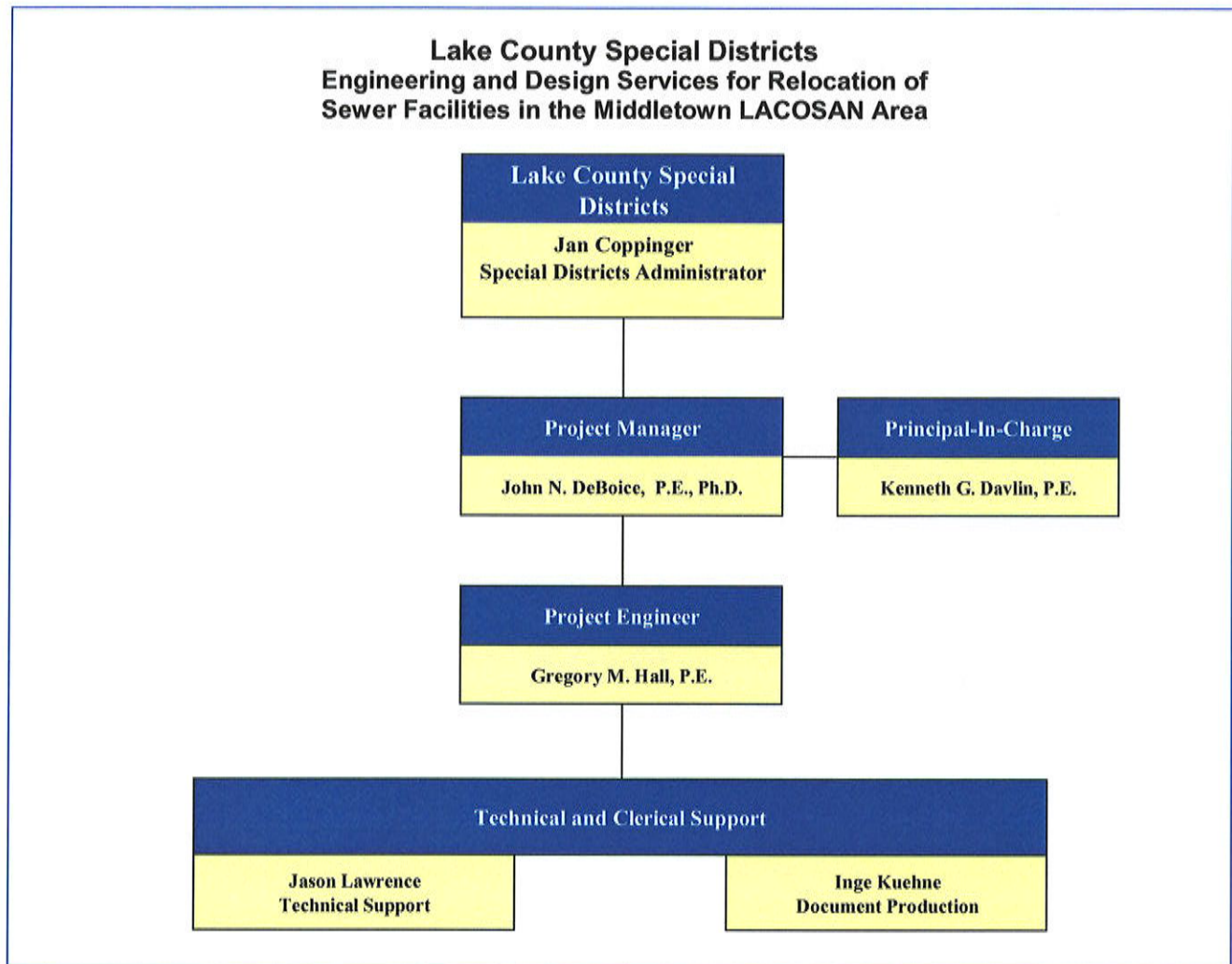
**John N. DeBoice, PE, PhD, Project Manager** – Dr. DeBoice has 40+ years of experience in civil engineering. His experience includes preparation of rate studies, subdivision design, commercial site design, stormwater hydrologic reports and calculations; stormwater detention basin and culvert design, water system evaluations, design of water pipelines, pump stations and reservoirs, wastewater system evaluations and designs, construction cost estimating, preparation of construction contract documents including specifications and drawings for bidding and construction; construction management and administration. Relevant projects include design and construction management of the Cross-Town Interceptor for the City of Eureka, the Madrone Pump Station 2017 Emergency Repairs Project for the Brooktrails Township Community Services District and the City of Eureka Mad River Parallel Pipeline Project. The latter was not a sewer force main but was a major water transmission main.



**Gregory M. Hall, PE, QSD/OSP, Design Engineer** – Mr. Hall has over 15 years of experience in stormwater management and monitoring, water and wastewater engineering, commercial and residential development, and construction management. His experience includes water main rehabilitation and design; hydraulic modeling of water distribution systems; design of public water supply wells; production testing of springs and wells; water and wastewater treatment process analysis and design; sanitary sewer rehabilitation and design; preparation of stormwater hydrologic reports and calculations; stormwater detention basin and culvert design; subdivision design; wet weather testing for onsite wastewater systems; onsite wastewater system design; levee design; construction cost estimating; preparation of construction contract documents including specifications and drawings for bidding and construction; construction management and administration; construction observation and inspection for compliance with contract documents; concrete sampling and testing; compaction testing; and drafting utilizing AutoCAD. Mr. Hall was involved in the same projects cited above for Dr. DeBoice.



## 8. Staffing Organization and Qualifications



## 9. Cost Proposal

---

The Cost Proposal is in a separate sealed envelope.

