

WEST VALLEY WATER DISTRICT  
855 W. Base Line Road Rialto, CA 92376  
PH: (909) 875-1804 FAX: (909) 875-1849

ENGINEERING, OPERATIONS &  
PLANNING COMMITTEE  
MEETING AGENDA

WEDNESDAY, FEBRUARY 10<sup>th</sup>, 2021 - 6:00 PM

**NOTICE IS HEREBY GIVEN** that West Valley Water District has called a meeting of the Engineering, Operations & Planning Committee to meet in the Administrative Conference Room, 855 W. Base Line Road, Rialto, CA 92376.

**Teleconference Notice:** In an effort to prevent the spread of COVID-19 (Coronavirus), and in accordance with the Governor's Executive Order N-29-20 and the order of the County of San Bernardino dated March 17, 2020, there will be no public location for attending this Committee Meeting in person. Members of the public may listen and provide public comment via telephone by calling the following number and access code: Dial: (888) 475-4499, Access Code: 840-293-7790 or you may join the meeting using Zoom by clicking this link: <https://us02web.zoom.us/j/8402937790>. Public comment may also be submitted via email to [administration@wvwd.org](mailto:administration@wvwd.org). If you require additional assistance, please contact the Executive Assistant at [administration@wvwd.org](mailto:administration@wvwd.org).

**BOARD OF DIRECTORS**

Director Greg Young (Chair)

Director Kyle Crowther

1. CONVENE MEETING
2. PUBLIC PARTICIPATION

*The public may address the Board on matters within its jurisdiction. Speakers are requested to keep their comments to no more than three (3) minutes. However, the Board of Directors is prohibited by State Law to take action on items not included on the printed agenda.*

3. DISCUSSION ITEMS
  - A. General Updates to Engineering Committee

- B. Presentation from Robert D. Niehaus, Inc- Development Impact Fee Study
- C. I-10 Cedar Avenue Interchange Improvement Project: Professional Engineering Services Amendment No. 1 **(Page 3)**
- D. Setting the Number of Service Connections and Meters to be Provided by Southern California Edison at the District's Lord Ranch Site

4. **ADJOURN**

**DECLARATION OF POSTING**

I declare under penalty of perjury, that I am employed by the West Valley Water District and posted the foregoing Finance Committee Agenda at the District Offices on February 4<sup>th</sup>, 2021.



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Maisha Mesa, Executive Assistant



**BOARD OF DIRECTORS  
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE  
STAFF REPORT**

**DATE:** February 10, 2021  
**TO:** Engineering, Operations and Planning Committee  
**FROM:** Shamindra Manbahal, Acting General Manager  
**SUBJECT:** I-10 CEDAR AVENUE INTERCHANGE IMPROVEMENT PROJECT:  
 PROFESSIONAL ENGINEERING SERVICES AMENDMENT NO. 1

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**BACKGROUND:**

The I-10 Cedar Avenue Interchange Improvement Project is required by the San Bernardino County Transportation Authority (“SBCTA”) and San Bernardino County, in cooperation with the California Department of Transportation and the Federal Highway Administration, to improve the I-10/Cedar Avenue interchange in the unincorporated community of Bloomington. The proposed project will widen the Cedar Avenue Overcrossing Bridge (“Cedar Avenue Bridge OC”), Union Pacific Railroad (“UPRR”)/Cedar Avenue Overhead Bridge (“Cedar Avenue Bridge OH”), Cedar Avenue, and modify the existing entrance and exit ramps to improve the turning maneuverability and storage capacity. The widening of the I-10 Cedar Avenue Interchange Improvement Project is of critical importance to SBCTA and WVWD to reduce traffic congestion at the interchange. Construction is scheduled to begin in August 2021.

WVWD’s water facilities are located within SBCTA’s proposed improvements along Cedar Avenue between Bloomington Avenue and Orange Street. Approximately 2,600 linear feet of 12-inch water main and 1,300 linear feet of 8-inch water main will need to be replaced. On the Cedar Avenue Bridge OC and OH, the 8-inch water main is in a 16-inch steel casing and the 12-inch water main is in a 20-inch steel casing and as part of the bridge widening project, will need to be replaced. WVWD has prior water rights and has existing agreements with the State of California. This Project will be funded by SBCTA and will be required to coordinate all Work with SBCTA for review and approval. A Caltrans permit and a UPRR permit will be required. Work requires relocating the existing water main, meters, valves, and a fire hydrant.

**DISCUSSION:**

On October 15, 2020, the Board of Directors directed the General Manager to enter into an agreement with Michael Baker International, Inc. (“MBI”) for the Development of Construction Bid Documents for Water Main Replacement, Construction Management, and Inspection Services for the I-10 Cedar Avenue Interchange Improvement Project. While reviewing and coordinating the design for the site improvements and considering the updated project schedule for the adjacent Zone 3-Valley Boulevard Pipeline Replacement project, staff recommends the identified additional

design items be added to the scope of work. The additional work will extend the construction limits to outside of the very busy Cedar Avenue and Valley Boulevard intersection and result in a public convenience by eliminating the need to do major construction at that intersection twice within a short period of time. Staff requested a proposal for additional design improvements at the intersection of Cedar Avenue and Valley Boulevard which is beyond the original scope of work required by SBCTA. These additional improvements are to construct, or relocate, east-west branch connections to connect to the proposed relocation of the 12-inch and 8-inch lines that will be relocated as part of the bridge and street improvements project. The existing water mains at the intersection were constructed between the 1930's and 1980's. Modifications at the intersection will increase water circulation and improve water quality. Also, there exist multiple water mains crossing a high traffic intersection which makes it difficult for staff to locate the water mains and valves. Location of the new valves will also be considered for the safety of the staff. A summary of added services are as follows:

- Abandoned the diagonal casing traversing Valley Boulevard and extend the existing 16-inch line Valley Boulevard to the new 12-inch line on the north side of Valley Boulevard. The existing casings prevents the ability to make new connections in the existing connection area.
- Add a new transverse line across Valley Boulevard to reestablish the connection between the 16-inch line and 12-inch lines in Valley Boulevard east of the intersection.
- Install a branch from the new 12-inch line along the north side of Valley Boulevard for future connection into the system outside of the intersection.
- Abandoned the east-west section of pipe in a casing traversing Cedar Avenue south of the intersection and install a new section of pipe. The existing casings prevents the ability to make a new connection in the existing connection area.

Attached as **Exhibit A** is a copy of Task Order No. 1 Amendment No. 1, which includes the proposal received by MBI to perform the additional design, construction management, inspections services, and survey staking.

#### **FISCAL IMPACT:**

This W19055 I-10 Cedar Avenue Interchange Project has an encumbrance amount of \$360,884.00 which was transferred from the District's Capital Improvement Project W19008 Zone 8 - Reservoir 8-3 and will be reimbursed to the W19008 Project once the Utility Agreement is executed with SBCTA at a future time. The project needs additional funds to cover the cost of the additional design improvements in the amount of \$19,768.00 which will be a District Capital expense. The District's W17012 Bloomington Alley Way Main Replacement budget has funds available to transfer in the amount of \$19,768.00. A summary of the requested budget transfer is as follows:

<b>CIP FY 2020-2021 Project Name</b>	<b>Current Budget</b>	<b>Encumbrance</b>	<b>Additional Design Improvements Cost</b>	<b>Transfer From/To</b>	<b>Remaining Budget</b>
<b>W17012 Bloomington Alley Way Main Replacement</b>	\$23,921.23	\$0.00	\$0.00	(\$19,768.00)	\$4,153.23
<b>W19055 I-10 Cedar Avenue Interchange Project</b>	\$360,884.00	\$360,884.00	\$19,768.00	\$19,768.00	\$0.00

**STAFF RECOMMENDATION:**

Staff recommends that this item be submitted for consideration and approval by the full Board at a future Board of Directors meeting. Staff also recommends that the Board of Directors approve this item and authorize the Acting General Manager to execute the necessary documents.

BP:pa

**ATTACHMENT(S):**

- 1. Exhibit A - I-10 Task Order No. 1 Amendment No. 1

# EXHIBIT A

**TASK ORDER NO. 1 AMENDMENT NO. 1**

**Development of Construction Bid Documents for Water Main Replacement,  
Construction Management, and Inspection Services**

This Task Order (“Task Order”) is executed this 18<sup>th</sup> day of February, 2021 by and between West Valley Water District, a public agency of the State of California (“District”) and Michael Baker International (“Consultant”).

**RECITALS**

- A. On or about February 18<sup>th</sup>, 2021 District and Consultant executed that certain Agreement for Professional Services (“Agreement”).
- B. The Agreement provides that the District will issue Task Orders from time to time, for the provision of certain services by Consultant.
- C. Pursuant to the Agreement, District and Consultant desire to enter into this Task Order for the purpose of setting forth the terms and conditions upon which Consultant shall render certain services to the District.

**NOW, THEREFORE, THE PARTIES HERETO HEREBY AGREE AS FOLLOWS:**

- 1. Consultant agrees to perform the services set forth on Exhibit “1” attached hereto and by this reference incorporated herein.
- 2. Subject to any limitations in the Agreement, District shall pay to Consultant the amounts specified in Exhibit “2” attached hereto and by this reference incorporated herein. The total compensation, including reimbursement for actual expenses, may not exceed the amount set forth in Exhibit “2,” unless additional compensation is approved in writing by the District.
- 3. Consultant shall perform the services described in Exhibit “1” in accordance with the schedule set forth in Exhibit “3” attached hereto and by this reference incorporated herein. Consultant shall commence work immediately upon receipt of a notice to proceed from the District. District will have no obligation to pay for any services rendered by Consultant in advance of receipt of the notice to proceed, and Consultant acknowledges that any such services are at Consultant’s own risk.
- 4. The provisions of the Agreement shall apply to this Task Order. As such, the terms and conditions of the Agreement are hereby incorporated herein by this reference.

**[SIGNATURES APPEAR ON FOLLOWING PAGE]**

IN WITNESS WHEREOF, the parties have caused this Task Order to be executed effective as of the day and year first above written.

**DISTRICT:**

**WEST VALLEY WATER DISTRICT,  
a public agency of the State of California**

By \_\_\_\_\_  
Channing Hawkins, President

By \_\_\_\_\_  
Shamindra Manbahal, Acting General Manager

By \_\_\_\_\_  
Peggy Asche, Board Secretary

**APPROVED AS TO FORM:**

**TAFOYA LAW GROUP, APC**

By \_\_\_\_\_  
Robert Tafoya

**CONSULTANT:**

**MICHAEL BAKER INTERNATIONAL**

By \_\_\_\_\_  
Name \_\_\_\_\_  
Its \_\_\_\_\_



**EXHIBIT "1"**  
**TO**  
**TASK ORDER NO. 1 AMENDMENT NO. 1**  
**SCOPE OF SERVICES**

**Scope:**

- 1. Additional design services including construction management, inspection services, and survey staking per the attached letter proposal dated January 29, 2021.**

January 29, 2021

JN 181262

Ms. Bertha Perez, P.E.  
West Valley Water District  
855 W Base Line Road  
PO Box 920  
Rialto, CA 92377

Subject: Amendment No. 1 for Task Order No. 1, I-10 Cedar Avenue Interchange Improvements, Project No. W19055

Dear Ms. Perez,

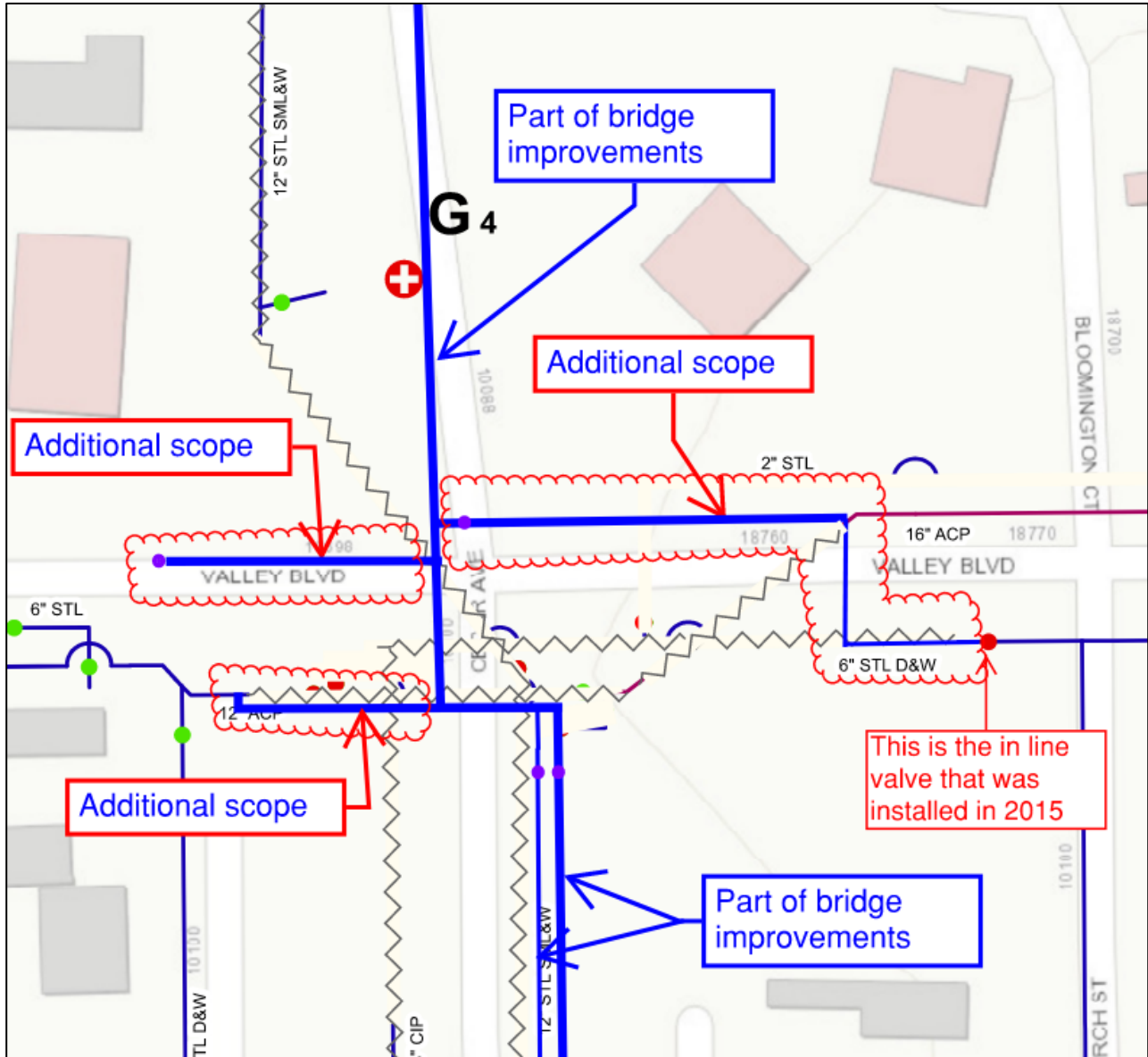
The focus of this letter is for your approval of Amendment No. 1 for Michael Baker's additional design services relating to the Cedar Avenue Interchange Improvements. After careful review of the District's record drawings and discussions with District staff, Michael Baker understands that additional waterline improvements in the intersection of Cedar Avenue and Valley Boulevard beyond the scope of the original contract will be required. These additional improvements are to construct, or relocate, east-west branch connections to connect to the proposed relocation of the 12-inch and 8-inch lines that will be relocated as part of the bridge and street improvements project.

Based on review of the Caltrans improvement plans, District record drawings, other utility record drawings, and discussions with the District staff, Michael Baker has prepared the sketch below that outlines the proposed changes that are outside of the current scope of work. These changes include additional pipeline abandonment, connection points, and valves.

The sketch shown below is a preliminary layout of the proposed water line alignments. The final alignments will be evaluated with District personnel, Caltrans reviewers, existing improvements, and could be different that shown in the sketch below. The summary of changes are also listed here:

- Abandoned the diagonal casing traversing Valley Boulevard and extend the existing 16-inch line Valley Boulevard to the new 12-inch line on the north side of Valley Boulevard. The existing casings prevents the ability to make new connections in the existing connection area.
- Add a new transverse line across Valley Boulevard to reestablish the connection between the 16-inch line and 12-inch lines in Valley Boulevard east of the intersection.
- Install a branch form the new 12-inch line along the north side of Valley Boulevard for future connection into the system outside of the intersection.
- Abandoned the east-west section of pipe in a casing traversing Cedar Avenue south of the intersection and install a new section of pipe. The existing casings prevents the ability to make a new connection in the existing connection area.

**Amendment No. 1 Pipeline Additional Scope Sketch**



January 29, 2021

### Amendment No. 1 Scope of Work

1. Michael Baker will perform an alignment and valve placement evaluation, details and linework will to be added to existing drawing sheets
2. Michael Baker will provide suggested alignments and valve placement for District evaluation.
3. Michael Baker will add to the drawings approximately 550 linear feet of plan and profile sheets for Cedar Avenue and Valley Boulevard. The pipeline diameters will vary from 8-inch to 16-inch to match existing system sizes.
4. Michael Baker will add to the drawings an enlarged detail plan view with and connection details, and section cuts if required, for the Cedar Avenue and Valley Boulevard intersection.
5. Michael Baker will add additional demolition notes, details, and linework required to support the added pipe alignments.
6. Michael Baker will incorporate changes and additional quantities into the cost options and contract documents.
7. An additional forty (40) hours of construction inspection are included for the improvements.
8. An additional four (4) hours are included for survey construction staking of the improvements.

It is estimated that these changes will add one (1) additional plan/profile sheet and one (1) additional detail sheet to project drawings.

### Exclusions and key assumptions:

1. WVWD will perform any hydraulic evaluations required and ensure the proposed changes do not affect system hydraulics.
2. Valve placement will be initially recommended by Michael Baker. The final valve locations shall be placed based on District operational preferences.
3. The final layout will not vary significantly from the alignments and connections shown in the included sketch.
4. Additional inspection and construction management hour is included with the assumption that the additional piping will only add five (5) days to the construction schedule.

### Amendment No. 1 Fee Summary

Amendment No. 1 Total:       \$ 19,768.00

The detailed breakdown of each task including hourly rates is provided in the attached Fee Table.

Should you have any questions, please contact me directly by phone at: (951) 506-2086; or via e-mail: miles.costanza@mbakerintl.com.

Sincerely,



Miles Costanza, P.E.  
 Project Manager



Momcilo Savovic, P.E.  
 Department Manager

Ms. Bertha Perez, PE  
 West Valley Water District  
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January 29, 2021



## FEE TABLE

### I-10/Cedar Ave Amendment 1

	Approximate Person Hours								Total Estimated Hours	Labor Cost	Direct/Repro Subcontract Costs	Total Estimated Fee
	Principal	Project Manager	Senior Engineer	Project Engineer	Const. Manager	Adm in Support	Field Inspector	1-Person Survey Crew				
	\$ 280.00	\$ 220.00	\$ 195.00	\$ 165.00	\$ 178.00	\$ 70.00	\$ 115.00	\$ 180.00				
<b>Amendment 1</b>												
Design Documents	2	2	12	60					76	\$ 13,240.00	\$ -	\$ 13,240.00
CM & Inspection					6	2	40		48	\$ 5,808.00	\$ -	\$ 5,808.00
Survey Staking								4	4	\$ 720.00		\$ 720.00
<b>ADDENDUM 1 TOTAL:</b>	<b>2</b>	<b>2</b>	<b>12</b>	<b>60</b>	<b>6</b>	<b>2</b>	<b>40</b>	<b>4</b>	<b>128</b>	<b>\$ 19,768.00</b>	<b>\$ -</b>	<b>\$ 19,768.00</b>

**EXHIBIT "2"**  
**TO**  
**TASK ORDER NO. 1 AMENDMENT NO. 1**  
**COMPENSATION**

The fee estimated for additional design services, construction management, inspection services, and survey staking is **\$19,768.00**.

<b>TASK NUMBER</b>	<b>TASK DESCRIPTION</b>	<b>COST</b>
1	Design	\$13,240.00
2	Construction Management & Inspection	\$5,808.00
3	Survey Staking	\$720.00
<b>Total Cost</b>		<b>\$19,768.00</b>

**EXHIBIT "3"**  
**TO**  
**TASK ORDER NO. 1 AMENDMENT NO. 1**

**SCHEDULE**

Schedule to be determined by District staff.