



- Board of Directors  
*Engineering and Operations Committee*

7/10/2012 Board Meeting

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**7-1**

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## **Subject**

Appropriate \$240,000: and authorize construction of pavement repairs for Service Connection OC-44 and the Santiago Lateral (Approp. 15441)

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## **Description**

This action authorizes two projects in the Orange County operating region: (1) Replacement of asphaltic concrete paving at Service Connection OC-44, and (2) Construction of new concrete paving for the access road to the Santiago Lateral master meter vault.

## **Timing and Urgency**

All-weather access to Service Connection OC-44 and the Santiago Lateral master meter vault is required to perform routine patrols and maintenance, and to collect water quality samples. The existing access road to Service Connection OC-44 has begun to deteriorate due to aging and surface wear from over 40 years of use. The existing access road to the Santiago Lateral master meter is unpaved and located on a steep hill. The steep grade makes access by maintenance equipment difficult, particularly during the winter rainy season. The recommended projects will enable patrol and maintenance activities to proceed during all weather conditions.

These projects have been reviewed with Metropolitan's updated Capital Investment Plan (CIP) prioritization criteria, and are categorized as Infrastructure Rehabilitation projects. Funds for this action are available within Metropolitan's capital expenditure plan for fiscal year 2012/13.

## **Background**

The East Orange County Feeder No. 2 is a 25-mile-long pipeline which delivers treated water from the Diemer plant to the cities of Anaheim, Orange, Santa Ana, and Irvine. Service Connections Nos. OC-44A and OC-44B, which are located in Newport Beach, were constructed in 1967 to deliver water to the Municipal Water District of Orange County (MWDOC). Staff accesses the facility to monitor pipeline conditions, maintain metering equipment, collect water quality samples, and operate sectionalizing valves.

Over approximately 40 years of service, the 230-foot-long access road and paved areas surrounding the service connections have deteriorated. During rainy periods, vehicles and equipment have difficulty accessing the site for routine maintenance. Staff recommends that the existing deteriorated paving be removed, grading be performed to improve drainage, and asphalt paving be installed to provide an all-weather paved surface.

The Santiago Lateral is a 7.4-mile-long pipeline which delivers treated water from the Lower Feeder to the city of Anaheim and MWDOC. The Santiago Lateral's master meter and sectionalizing valve are located in the city of Yorba Linda. Staff uses the access road to monitor the condition of the pipeline and to perform maintenance of the meter and sectionalizing valve.

The 650-foot-long dirt access road is located on a steep hill, and is difficult for maintenance equipment to traverse during the rainy season when the fine-grained soils become slick and easily rutted. Concrete pavement is needed for the access road because it is more durable than asphalt and can be grooved to provide a skid-resistant surface.

Metropolitan's Board authorized final design of the Service Connection OC-44 Access Road Rehabilitation and Santiago Lateral Access Road Rehabilitation in January 2008 and October 2009, respectively. Final design for both projects has been completed, and staff recommends proceeding with construction at this time.

**Project No. 1 - Service Connection OC-44 Access Road Rehabilitation – Construction (\$80,000)**

Specifications No. 1610 for the OC-44 Facility and Road Repair project was advertised for bids on March 29, 2012. As shown in [Attachment 2](#), four bids were received and opened on April 24, 2012. The low bid from Superior Paving Company, Inc. dba United Paving Company, in the amount of \$56,500, complies with the requirements of the specifications. The three higher bids ranged from \$62,582 to \$92,630. The engineer's estimate was \$86,000. Staff has investigated the difference between the low bid and engineer's estimate and attributes the difference primarily to the contractor's plan to recycle the existing aggregate base to avoid disposal costs and purchase of new aggregate. The contract is planned to be awarded under the General Manager's Administrative Code authority to award contracts of \$250,000 or less. For this size of contract, Metropolitan did not establish a Small Business Enterprise (SBE) participation level.

This action appropriates \$80,000 to replace asphaltic concrete paving at Service Connection OC-44. The appropriated funds include \$56,500 for the construction contract; \$8,500 for construction inspection; \$5,000 for Metropolitan staff to review submittals received from the contractor, respond to requests for information, and prepare record drawings; \$8,000 for project management and environmental monitoring; and \$2,000 for remaining budget.

**Project No. 2 - Santiago Lateral Access Road Rehabilitation – Construction (\$160,000)**

Specifications No. 1611 for the Santiago Lateral Access Road Repair project was advertised for bids on March 29, 2012. As shown in [Attachment 2](#), five bids were received and opened on April 26, 2012. The low bid from Kaveh Engineering and Construction, Inc., in the amount of \$122,200, complies with the requirements of the specifications. The four higher bids ranged from \$142,000 to \$184,786. The engineer's estimate was \$114,000. The contract is planned to be awarded under the General Manager's Administrative Code authority to award contracts of \$250,000 or less. For this project, Metropolitan established an SBE participation level of 20 percent of the bid amount. Kaveh Engineering and Construction, Inc. is an SBE firm, and thus achieves 100 percent participation.

This action appropriates \$160,000 to construct new concrete paving for the access road to the Santiago Lateral master meter vault. The appropriated funds include \$122,200 for the construction contract; \$18,500 for construction inspection; \$6,500 for Metropolitan staff to review submittals received from the contractor, respond to requests for information, and prepare record drawings; and \$12,800 for project management and environmental monitoring.

**Summary**

This action appropriates \$240,000 and authorizes two paving projects in the Orange County operating region. This work has been evaluated and recommended by Metropolitan's CIP Evaluation Team, and funds are available within the fiscal year 2012/13 capital expenditure plan. See [Attachment 1](#) for the Financial Statement, [Attachment 2](#) for the Abstracts of Bids, and [Attachment 3](#) for the Location Map.

This work will be performed under the Conveyance and Distribution System Rehabilitation Program - Phase 2 (Appropriation No. 15441), which was initiated in fiscal year 2001/02. Other projects authorized under Appropriation No. 15441 include the Box Springs Feeder Repairs and the West Valley Feeder Valve Structure Modifications. The total appropriated amount for this program will increase from \$38,539,000 to \$38,779,000.

Construction inspection of the two projects will be performed by Metropolitan staff. For these projects, the anticipated cost of inspection is approximately 15 percent of the total construction cost. Engineering Services' goal for inspection of construction contracts less than \$3 million is 9 to 15 percent.

**Project Milestone**

December 2012 – Completion of construction of the OC-44 Access Road Repairs and the Santiago Lateral Access Road Repairs

**Policy**

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Metropolitan Water District Administrative Code Section 5108: Appropriations

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

**California Environmental Quality Act (CEQA)**

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CEQA determination for Option #1:

The proposed action is categorically exempt under the provisions of CEQA and the State CEQA Guidelines. The proposed project involves funding and reconstruction of existing public facilities along with minor modifications in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees. Accordingly, the proposed action qualifies under Class 1, Class 2, and Class 4 Categorical Exemptions (Sections 15301, 15302, and 15304 of the State CEQA Guidelines).

The CEQA determination is: Determine that pursuant to CEQA, the proposed action qualifies under three Categorical Exemptions (Class 1, Section 15301; Class 2, Section 15302; and Class 4, Section 15304 of the State CEQA Guidelines).

CEQA determination for Option #2:

None required

**Board Options**

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**Option #1**

Adopt the CEQA determination and

- a. Appropriate \$240,000;
- b. Authorize replacement of access road paving at Service Connection OC-44; and
- c. Authorize construction of access road paving for the Santiago Lateral pipeline.

**Fiscal Impact:** \$240,000 in budgeted funds under Approp. 15441

**Business Analysis:** This option will protect Metropolitan's assets, enhance employee safety, and facilitate patrol and maintenance activities.

**Option #2**

Do not proceed with the two projects at this time.


**Fiscal Impact:** None

**Business Analysis:** Under this option, access to Service Connection OC-44 and the Santiago Lateral may be restricted during the rainy season, resulting in increased costs for future repairs.

**Staff Recommendation**


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Option #1

  
\_\_\_\_\_  
Gordon Johnson  
Manager/Chief Engineer,  
Engineering Services

6/19/2012

Date

  
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Jeffrey Wightlinger  
General Manager

6/26/2012

Date

**Attachment 1 – Financial Statement**

**Attachment 2 – Abstracts of Bids**

**Attachment 3 – Location Map**

Ref# es12611298

**Financial Statement for Conveyance and Distribution System Rehabilitation Program – Phase 2**

A breakdown of Board Action No. 43 for Appropriation No. 15441 for the Service Connection OC-44 Access Road Rehabilitation<sup>1</sup>, and the Santiago Lateral Road Rehabilitation<sup>2</sup>, is as follows:

	<b>Previous Total Appropriated Amount (Apr. 2012)</b>	<b>Current Board Action No. 43 (July 2012)</b>	<b>New Total Appropriated Amount</b>
Labor			
Studies & Investigations	\$ 2,616,000	\$ -	\$ 2,616,000
Final Design	3,023,293	-	3,023,293
Owner Costs (Program mgmt, envir. monitoring)	4,625,200	20,800	4,646,000
Submittals Review & Record Drwgs	193,250	11,500	204,750
Construction Inspection & Support	1,860,550	27,000	1,887,550
Metropolitan Force Construction	8,224,510	-	8,224,510
Materials & Supplies	1,746,400	-	1,746,400
Incidental Expenses	839,900	-	839,900
Professional/Technical Services	2,002,000	-	2,002,000
Equipment Use	237,200	-	237,200
Contracts	11,169,562	178,700	11,348,262
Remaining Budget	2,001,135	2,000	2,003,135
<b>Total</b>	<b>\$ 38,539,000</b>	<b>\$ 240,000</b>	<b>\$ 38,779,000</b>

**Funding Request**

<b>Program Name:</b>	Conveyance and Distribution System Rehabilitation Program – Phase 2		
<b>Source of Funds:</b>	Revenue Bonds, Replacement and Refurbishment or General Funds		
<b>Appropriation No.:</b>	15441	<b>Board Action No.:</b>	43
<b>Requested Amount:</b>	\$ 240,000	<b>Capital Program No.:</b>	15441-I
<b>Total Appropriated Amount:</b>	\$ 38,779,000	<b>Capital Program Page No.:</b>	38
<b>Total Program Estimate:</b>	\$ 109,842,000	<b>Program Goal:</b>	I-Infrastructure Reliability

<sup>1</sup> The total amount expended to date on the Service Connection OC-44 Access Road Rehabilitation project is approximately \$140,000.

<sup>2</sup> The total amount expended to date on the Santiago Lateral Access Road Rehabilitation project is approximately \$220,000.

**The Metropolitan Water District of Southern California****Abstract of Bids Received on April 24, 2012 at 2:00 P.M.****Specifications No. 1610  
OC-44 Facility and Road Repair**

The project consists of removal and disposal of existing degraded asphalt concrete, and paving approximately 9,160 square feet of new asphalt concrete.

**Engineer's Estimate: \$86,000**

<b>Bidder and Location</b>	<b>Total<sup>1</sup></b>
<b>Superior Paving Company, Inc. dba United Paving Company, La Mirada CA</b>	<b>\$56,500</b>
Palp, Inc. (dba Excel Paving Company), Long Beach, CA	\$62,582
Terra Pave, Inc., Whittier, CA	\$64,850
Kaveh Engineering & Construction, Inc., Anaheim, CA	\$92,630

<sup>1</sup> No SBE (Small Business Enterprise) participation level was established.

**The Metropolitan Water District of Southern California**

**Abstract of Bids Received on April 26, 2012 at 2:00 P.M.**

**Specifications No. 1611  
Santiago Lateral Access Road Repair**

The project consists of installation of approximately 220 cubic yards of pneumatically placed concrete on an unpaved access road.

**Engineer's Estimate: \$114,000**

<b>Bidder and Location</b>	<b>Total</b>	<b>SBE \$</b>	<b>SBE %</b>	<b>Met SBE<sup>1</sup></b>
<b>Kaveh Engineering and Construction, Inc., Anaheim, CA</b>	<b>\$122,200</b>	<b>\$122,200</b>	<b>100%</b>	<b>Yes</b>
4-Con Engineering, Riverside, CA	\$142,000	-	-	-
CP Constructors, Signal Hill, CA	\$156,365	-	-	-
Atom Engineering Construction, Inc., Hemet, CA	\$167,398	-	-	-
Palp, Inc. (dba Excel Paving Company), Long Beach, CA	\$184,786	-	-	-

<sup>1</sup> SBE (Small Business Enterprise) participation level was established at 20% for this contract

# Pavement Projects

