



**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY**

BOARD OF DIRECTORS

***WATER QUALITY AND WATER SERVICES
COMMITTEE MEETING AGENDA***

**Thursday, March 17, 2016
11:00 a.m.**

**5000 Overlook Avenue, SW
Washington, DC 20032**

- | | |
|--|----------------------------------|
| 11:00 a.m. I. Call to Order | Rachna Butani Chairperson |
| 11:05 a.m. II. Water Quality Monitoring | Charles Kiely |
| Coliform Testing LCR Compliance Testing | |
| 11:15 a.m. III. Fire Hydrant Upgrade Program | David Wall |
| Status Report of Public Fire Hydrants Out of Service Fire Hydrant Map | |
| 11:30 a.m. IV. CIP Quarterly Update | Liliana Maldonado |
| 11:40 a.m. V. Small Diameter Water Main Program Update | Len Benson/Liliana Maldonado |
| 12:15 p.m. VI. Lead Program Update | Maureen Schmelling/Charles Kiely |

12:45 p.m. VII. Non-Joint Use

1. [WAS-9087-AA-AB - Orcom Solutions, LLC](#)
2. [WAS-10-023-AA-RE – Orcom Solutions, LLC](#)
3. [Contract No. 130170 - Ulliman Schutte Construction](#)
4. [Contract No. 130200 – Capitol Paving of D.C., Inc.](#)
5. [Contract No. 140010- Capitol Paving of D.C., Inc.](#)

1:00 p.m. VIII. Executive Session*

Adjournment

*The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.

Status Report of Public Fire Hydrants for DC Water Services Committee - March 4, 2016

| | December Cmte. Report (Dec 04, 2015) | January Cmte. Report (Jan 11, 2016) | February Cmte. Report (Feb 04, 2016) | March Cmte. Report (Mar 04, 2016) |
|--|--|---|--|---|
| Public Fire Hydrants: | 9,457 | 9,456 | 9,457 | 9,487 |
| In Service: | 9,397 | 9,405 | 9,403 | 9,419 |
| Marked Out-of-Service (OOS) | 60 | 51 | 54 | 68 |
| OOS - defective requiring repair/replacement | 48 | 31 | 35 | 49 |
| % OOS requiring repair or replacement (DC Water goal is 1% or less OOS) | 0.51% | 0.33% | 0.37% | 0.52% |
| OOS - due to inaccessibility or temp construction work | 12 | 20 | 19 | 19 |

Note: The number of public hydrants in the DC Water system fluctuates; this number fluctuates as hydrants are added and removed during development or construction activities as well as at the request of the Fire Dept.

Breakdown of Public Fire Hydrants Out-of-Service (OOS) as of March 4, 2016 68

Breakdown of Defective

| | 0-7 Days | 8-14 Days | 15-30 Days | 31-60 Days | 61-90 Days | 91-120 Days | > 120 Days | Total |
|--|-------------|--------------|---------------|---------------|---------------|----------------|---------------|-------|
| Hydrant Needs Repair/Investigation | 7 | 2 | 7 | 2 | 0 | 0 | 6 | 24 |
| Needs Valve Investigation for Low Flow/Pressure or Shut Test for Replacement | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 3 |
| Needs Replacement | 0 | 0 | 0 | 5 | 2 | 1 | 14 | 22 |

Defective 49 ←

Breakdown of Others

| | 0-7 Days | 8-14 Days | 15-30 Days | 31-60 Days | 61-90 Days | 91-120 Days | > 120 Days | Total |
|--|-------------|--------------|---------------|---------------|---------------|----------------|---------------|-------|
| Temporarily OOS as part of operations such as a main repair | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 5 |
| Construction* - OOS | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 9 |
| Obstructed Hydrant – OOS hydrant due to operation impeded by an obstruction. | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |

Others 19 ←

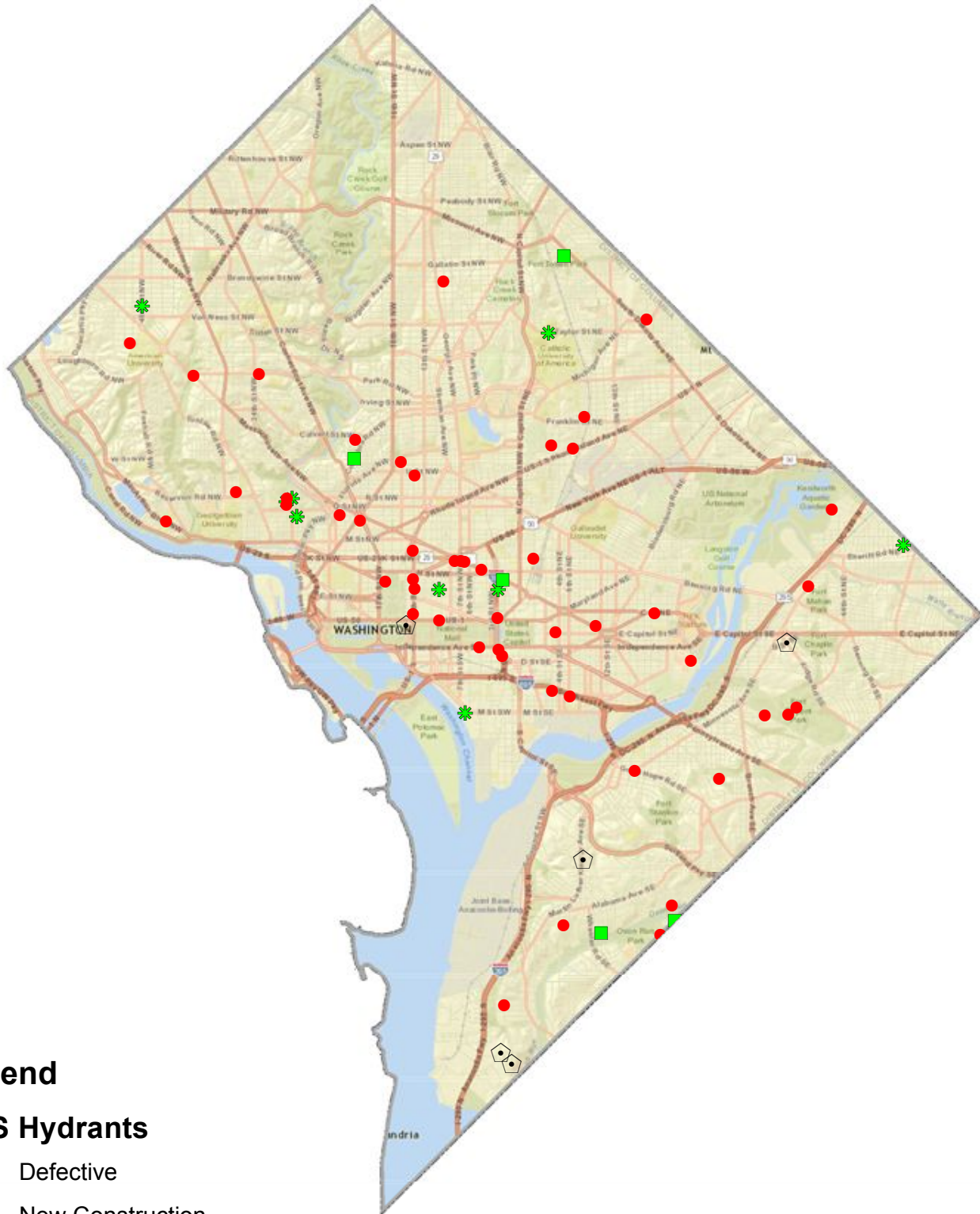
*Fire hydrants not accessible due to construction activities. Also includes new hydrants which have not yet been commissioned or old hydrants which will be abandoned as part of ongoing construction projects.

Status of Private Fire Hydrants-Based on FEMS Inspection Reporting

| | |
|-------------------------|-------|
| Private Hydrants: | 1,318 |
| • In Service: | 1,188 |
| • Out-of-Service (OOS): | 130 |

Map of Public Out-of-Service Hydrants

Feb. 8, 2016



Legend

OOS Hydrants

- Defective
- * New Construction
- ⬠ Obstructed
- Temporary

District of Columbia Water and Sewer Authority

Capital Improvement Program Report



**FY-2016 1st Quarter
October 1st through December 31st, 2015**

**Board of Directors
Environmental Quality and Sewerage Services Committee**

**George S. Hawkins, General Manager
Leonard R. Benson, Chief Engineer**

February 2016

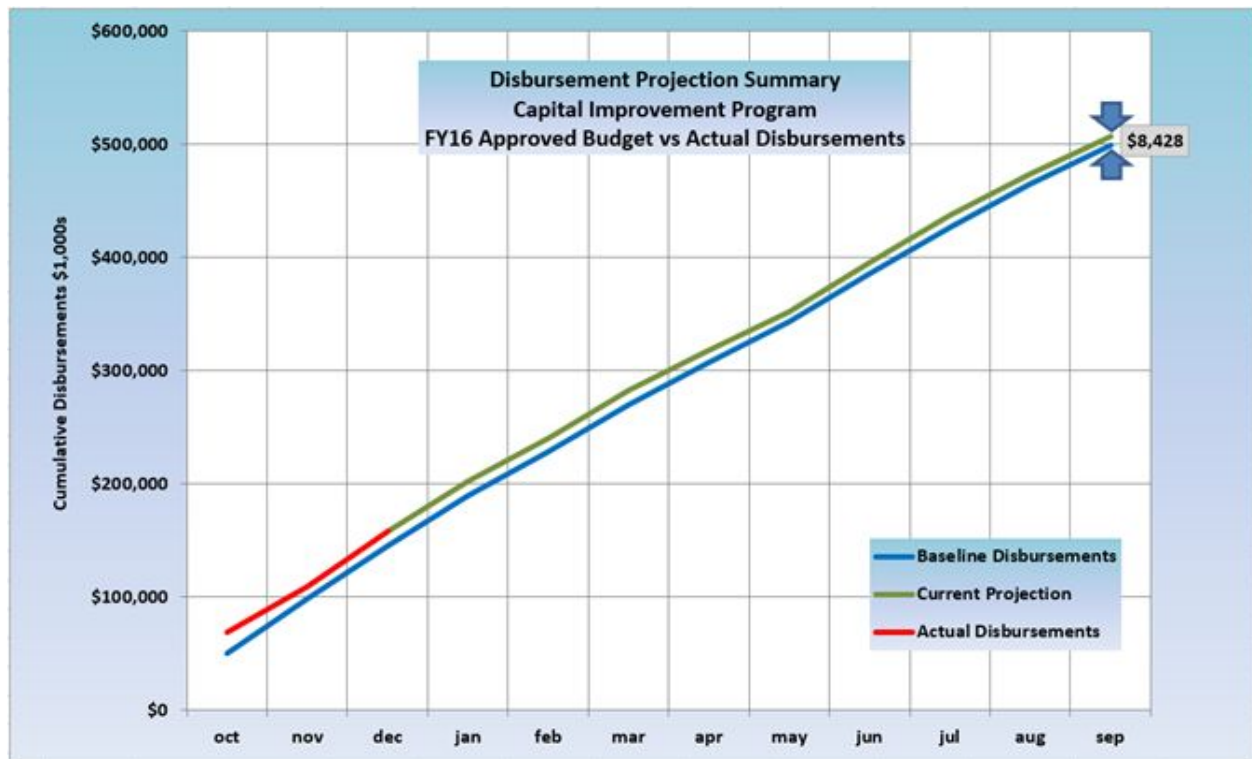


Capital Improvement Program Report 1st Quarter FY2016

CIP Disbursement Performance

Current projected program disbursements through the end of the fiscal year compared with the approved FY16 baseline are shown in the chart below:

Disbursement Summary



Current fiscal year 2016 CIP disbursements are \$507,405,000 through the end of December, which is 1.7% above the baseline disbursement projection of \$498,977,000.

Achieved disbursements within the service areas are as follows:

Non Process Facilities

Baseline Disbursements \$9,330,000
 Projected Disbursements \$4,760,000 (\$4.6M below baseline projection)

Significant project variances are listed below:



Capital Improvement Program Report 1st Quarter FY2016

- *Non Process Facilities Program Area – (\$4.6M below baseline)*
 - The disbursements for Project HH – New Fleet Management Facility are \$4.7 million below baseline mainly due to ongoing coordination of the agreement between DC Water and the District of Columbia Government that has rescheduled the start of design and construction.

Wastewater Treatment Service Area

Baseline Disbursements \$168,638,000

Projected Disbursements \$173,379,000 (\$4.7M above baseline projection)

Significant project variances are listed below:

- *Enhanced Nitrogen Removal Facilities Program – (\$6.4M above baseline)*
 - The disbursements for Project BI – Enhance Nitrogen Removal (ENR) North are projected to be \$5.4M above baseline due to continuing favorable construction progress and for additional work due to unforeseen conditions relating to the rehabilitation of existing facilities.

CSO Service Area

Baseline Disbursements \$223,037,000

Projected Disbursements \$226,639,000 (\$3.6M above baseline projection)

There are no significant project variances for this service area.

Stormwater Service Area

Baseline Disbursements \$1,264,000

Projected Disbursements \$2,129,000 (\$0.9M above baseline projection)

There are no significant project variances for this service area.

Sanitary Sewer Service Area

Baseline Disbursements \$34,803,000

Projected Disbursements \$36,917,000 (\$2.1M above baseline projection)

There are no significant project variances for this service area.

Water Service Area

Baseline Disbursements \$61,906,000

Projected Disbursements \$63,582,000 (\$1.7M above baseline projection)

There are no significant project variances for this service area.



Capital Improvement Program Report 1st Quarter FY2016

Priority 1 Projects (Court Ordered, Stipulated Agreements, etc.)

All priority 1 projects are on schedule and within budget.

Large Contract Actions Anticipated – 6 Month Look-Ahead

| Project | Name | Contract Type | Cost Range | Committee | BOD |
|---------|---|---------------|---------------|-----------|-----|
| CZ | Kennedy Center CSO 021 | Construction | \$30M - \$35M | EQ&SS Feb | Mar |
| MA | Saint Elizabeth's Water Tank | Construction | \$15M - \$20M | WQ&WS Mar | Apr |
| CY | Div U - Advance Utility Relocations for NEBT | Construction | \$15M - \$20M | EQ&SS Mar | Apr |
| J3 | National Arboretum Sewer Rehab | Construction | \$5M - \$10M | EQ&SS Apr | May |
| BV | Raw Wastewater Pumping Station No. 2 | Construction | \$25M - \$35M | EQ&SS Apr | May |
| Various | Miscellaneous Facilities Upgrades 5 | Construction | \$25M - \$35M | EQ&SS Apr | May |
| 03 | Small Diameter Watermain Rehab 11b | Construction | \$5M - \$10M | WQ&WS May | Jun |
| DE | Small Diameter Watermain Rehab 12a | Construction | \$5M - \$10M | WQ&WS Jun | Jul |
| IL | Creekbed Sewer Rehabilitation – Oregon Avenue | Construction | \$10M - \$15M | EQ&SS Jun | Jul |
| G1 | Rehab of Sewers in Georgetown | Construction | \$5M - \$10M | EQ&SS Jun | Jul |



Capital Improvement Program Report 1st Quarter FY2016

Schedule - Key Performance Indicators, Capital Improvement Program

KPI Performance Through End Quarter 1

All KPIs



For the 1st Quarter, two of the Key Performance Indicators (KPIs) were achieved early and three were achieved on time; one of the remaining planned KPIs was not achieved, as follows:

1. The construction substantial completion for Potomac Sewer - Odor Remedy, due to delayed completion of HVAC and training of DC Water personnel, which are expected to be completed in the second quarter.

KPI Performance Through End Quarter 1

Design Start



KPI Performance Through End Quarter 1

Construction Start



KPI Performance Through End Quarter 1

Construction Substantial Completion





Capital Improvement Program Report 1st Quarter FY2016

FY2016 - KPI Report

| | |
|-------|-------------------------------------|
| DS | Design Start |
| CS | Construction Start |
| CSC | Construction Substantial Completion |
| CO/PC | Consent Oder/Permit Compliance |

| | | | |
|---------|--|------------------|--|
| Planned | | On time | |
| Early | | 1 Quarter Late | |
| | | > 1 Quarter Late | |

| Qtr. | Project | Job Name | KPI Name | QUARTER | | | | To Date |
|------|---------|--|----------|---------|---|---|---|------------|
| | | | | 1 | 2 | 3 | 4 | |
| 1 | FA04 | Ft. Stanton Reservoir No. 1 Upgrade | CSC | | | | | On time |
| 1 | N712 | Potomac Sewer - Odor Remedy (VA Sites) | CSC | | | | | 1 Qtr Late |
| 1 | O301 | Small Dia Watermain Repl 11a | CS | | | | | On time |
| 1 | I802 | Large Valve Replacements 12 | CS | | | | | On time |



Capital Improvement Program Report 1st Quarter FY2016

FY2016 - KPI Report

| | | | | | |
|-------|-------------------------------------|---------|---|------------------|---|
| DS | Design Start | Planned | | On time | |
| CS | Construction Start | Early | | 1 Quarter Late | |
| CSC | Construction Substantial Completion | | | > 1 Quarter Late | |
| CO/PC | Consent Oder/Permit Compliance | | | | |

| Qtr. | Project | Job Name | KPI Name | QUARTER | | | | To Date |
|------|---------|--|----------|---|---|---|---|---------|
| | | | | 1 | 2 | 3 | 4 | |
| 2 | CY19 | Div A - Blue Plains Tunnel MPS Section | CSC | | | | | On time |
| 2 | F101 | Small Diameter Water Main Rehab 13A | DS | | | | | On time |
| 2 | XA10 | Biosolids Combined Heat and Power (CHP) | CSC | | | | | On time |
| 2 | FA06 | Brentwood Reservoir Upgrade | CSC | | | | | On time |
| 2 | O103 | Small Dia Watermain Repl 9b | CSC | | | | | On time |
| 2 | Q302 | Pope Branch Stream Restoration and Sewer Replacement | CS | | | | | Early |



Capital Improvement Program Report 1st Quarter FY2016

FY2016 - KPI Report

| | | | | | |
|-------|-------------------------------------|---------|---|------------------|---|
| DS | Design Start | Planned | | On time | |
| CS | Construction Start | Early | | 1 Quarter Late | |
| CSC | Construction Substantial Completion | | | > 1 Quarter Late | |
| CO/PC | Consent Oder/Permit Compliance | | | | |

| Qtr. | Project | Job Name | KPI Name | QUARTER | | | | To Date |
|------|---------|--|----------|--|---|--|---|---------|
| | | | | 1 | 2 | 3 | 4 | |
| 3 | AY01 | Upgrades to Ft. Reno Pumping Station | CSC | | | | | On time |
| 3 | MA01 | St. Elizabeth Water Tank | CS | | | | | On time |
| 3 | S503 | Large Dia. Water Main Internal Repairs 3 | CSC | | | | | Early |
| 3 | O302 | Small Dia Watermain Repl 11b | CS | | | | | On time |
| 3 | F103 | Small Diameter Water Main13C - C&L | DS | | | | | On time |
| 3 | F104 | Small Diameter Water Main Repl 13D | DS | | | | | On time |
| 3 | CY31 | Div U - Advance Utility Relocations for NEBT | CS | | | | | On time |
| 3 | C904 | 66" Low Service Steel Main at 8th Street NE & SE | DS | | | | | On time |
| 3 | JX01 | Sanitary Sewer Rehabilitation 10 | DS | | | | | On time |



Capital Improvement Program Report 1st Quarter FY2016

FY2016 - KPI Report

| | | | | | |
|-------|-------------------------------------|---------|---|------------------|---|
| DS | Design Start | Planned | | On time | |
| CS | Construction Start | Early | | 1 Quarter Late | |
| CSC | Construction Substantial Completion | | | > 1 Quarter Late | |
| CO/PC | Consent Oder/Permit Compliance | | | | |

| Qtr. | Project | Job Name | KPI Name | QUARTER | | | | To Date |
|------|---------|--|----------|---------|---|---|---|---------|
| | | | | 1 | 2 | 3 | 4 | |
| 4 | DE01 | Small Diameter Water Main Repl 12A | CS | | | | | On time |
| 4 | DR02 | Low Area Trunk Sewer - Rehabilitation | CS | | | | | On time |
| 4 | G101 | Rehab of Sewers in Georgetown | CS | | | | | On time |
| 4 | G800 | Small Local Sewer Rehab 2 | CSC | | | | | On time |
| 4 | GA01 | Small Local Sewer Rehab 4 | CSC | | | | | On time |
| 4 | J306 | National Arboretum Sewer Rehab | CS | | | | | On time |
| 4 | O101 | Small Dia Watermain Repl 9a | CSC | | | | | On time |
| 4 | O201 | Small Dia Watermain Repl 10a | CSC | | | | | On time |
| 4 | I801 | Large Valve Replacements 11R | CSC | | | | | On time |
| 4 | O202 | Small Dia Watermain Repl 10b | CSC | | | | | On time |
| 4 | BV01 | RWWPS No. 2 Upgrades | CS | | | | | On time |
| 4 | IL10 | Creekbed Sewer Rehab Rock Creek Oregon Avenue | CS | | | | | On time |
| 4 | IX01 | Headworks HVAC Rehab | DS | | | | | On time |
| 4 | DS01 | New Headquarters Building | CS | | | | | On time |
| 4 | FY02 | Rehab of RCMI & Beach Dr Sewers Ph II (Lining) | DS | | | | | On time |



Small Diameter Water Main (SDWM) Replacement and Rehabilitation Program Update

Presented to:
Water Quality and Water Services Committee
Chairperson: Rachna Butani
March 17, 2016



AGENDA

- Small Diameter Water Main (SDWM) Program Background
- Lessons Learned
- Proposed Solutions
- SDWM 10A & 10B Change Orders



AGENDA

- Small Diameter Water Main (SDWM) Program Background
- Lessons Learned
- Proposed Solutions
- SDWM 10A & 10B Change Orders

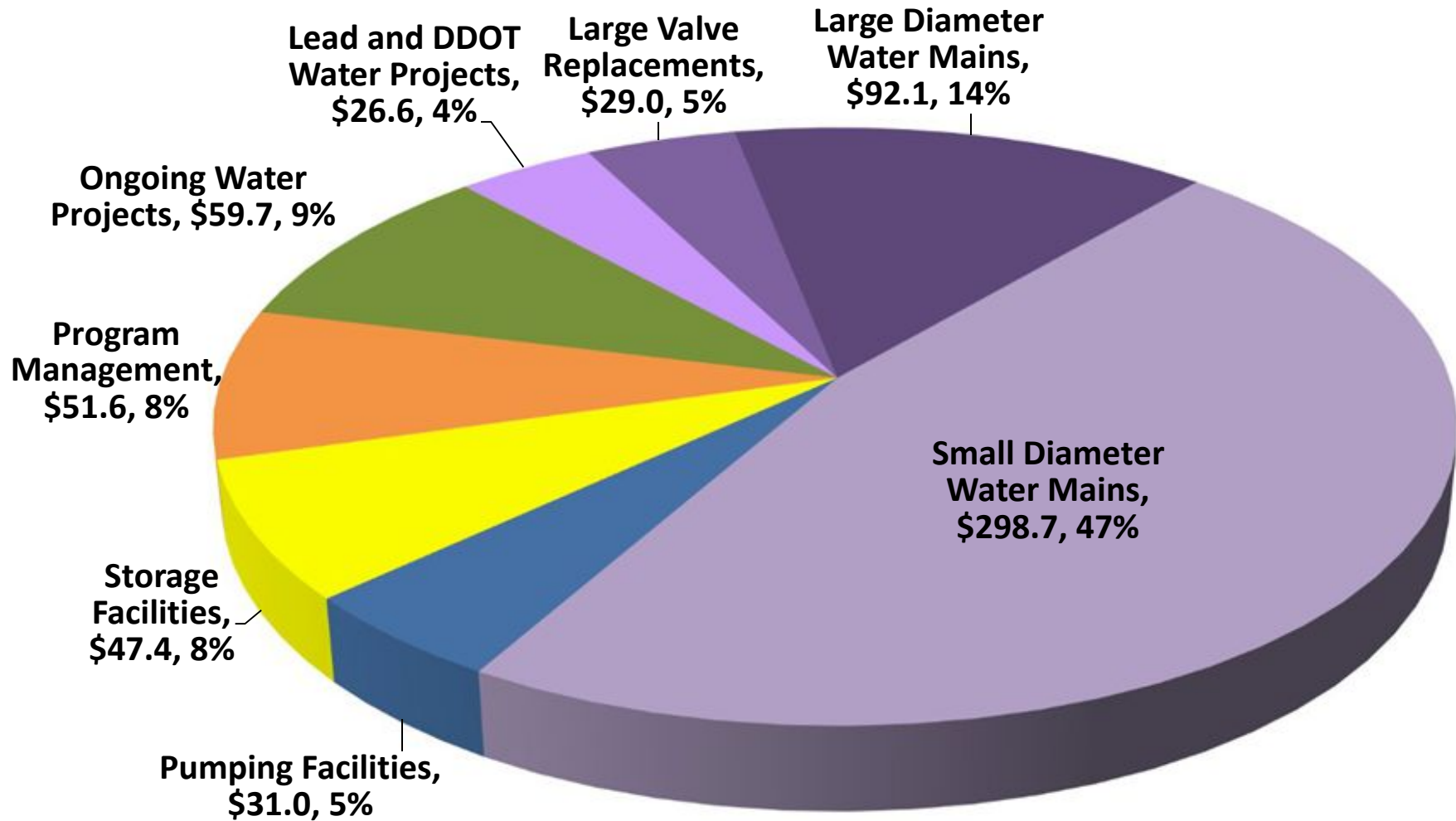


SDWM Program Background

| Date | Milestone |
|-----------|---|
| June 2009 | <ul style="list-style-type: none"> • First discussions with Retail Services Committee to increase replacement / rehab rate |
| 2010 | <ul style="list-style-type: none"> • Board approved increase in replacement / rehab rate • Goal was to increase SDWM from 1/3 percent to 1 percent over a 5-year period, i.e., by 2015 • 1 percent is approximately 11 miles of SDWM |
| 2011 | <ul style="list-style-type: none"> • Construction increase started |
| 2015 | <ul style="list-style-type: none"> • Goal – 11 miles • Goal exceeded – 16 miles |



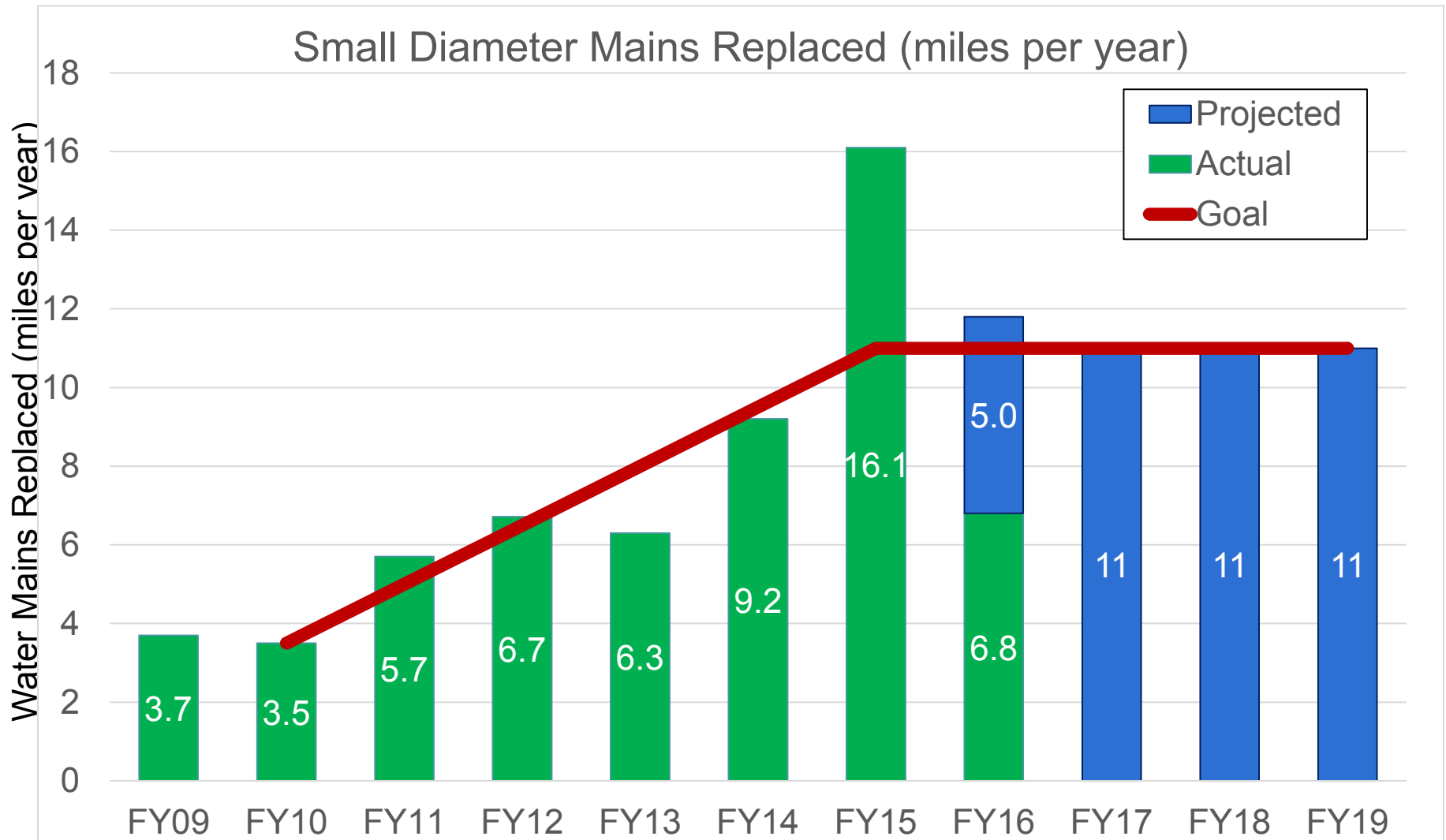
10-Year Water CIP



10 year, CIP Water Program – \$636,100,000



SDWM Replaced



* 1% is approx. 11 miles of SDWM

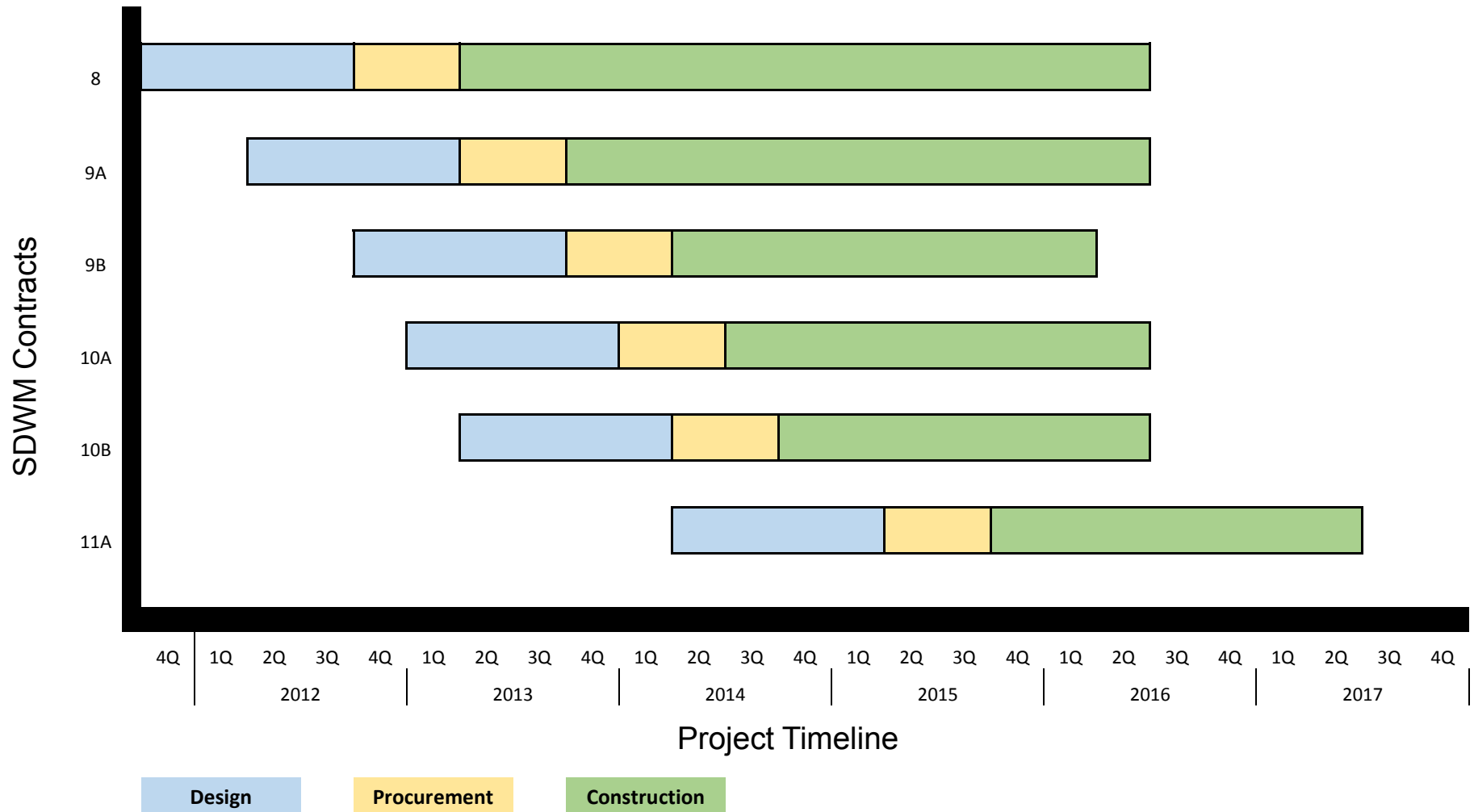


Program Background

| Project | Original Contract (\$) | NTP | Percent Complete | Estimated Completion |
|----------------|-------------------------------|------------|-------------------------|-----------------------------|
| 8 | \$16,654,450 | Jun 2013 | 98 | Jun 2016 |
| 9A | \$10,512,544 | Nov 2013 | 95 | Jul 2016 |
| 9B | \$6,956,349 | Mar 2014 | 94 | Mar 2016 |
| 10A | \$13,542,445 | Aug 2014 | 92 | Jun 2016 |
| 10B | \$10,190,671 | Dec 2014 | 86 | Jun 2016 |
| 11A | \$10,709,591 | Oct 2015 | 4 | May 2017 |



Project Timelines





AGENDA

- Small Diameter Water Main (SDWM) Program Background
- **Lessons Learned**
- Proposed Solutions
- SDWM 10A & 10B Change Orders



Program Lessons Learned

- Accurate *quantity takeoffs*
 - Copper pipes
 - Asphalt mill and overlay (M&O)
 - Borrow trench fill
 - Flexible asphalt pavement
 - PCC (concrete) base
- Significant DDOT *surface restoration* cost
- Detailed QA/QC process



Quantity Overruns (%)

| Bid Items | Percent Increase in Quantity | | | | | Cause |
|------------------------------|------------------------------|-------|-------|-----|--------|--|
| | 8 | 9A | 9B | 10A | 10B | |
| Copper Pipe 2" (non lead) | 37 | 0 | 0 | 81 | 109 | Assumptions were overly optimistic |
| Asphalt M&O | 81 | 0 | 0 | 82 | 106 | Vagaries of DDOT's surface restoration standards |
| Borrow Trench Fill | 0 | 34 | 117 | 74 | 117 | DDOT field changes to DDOT surface restoration requirements |
| Flexible Asphalt Pavement | 123 | 5,615 | 4,000 | 0 | 11,400 | Vagaries of DDOT's surface restoration standards Unknown base course material |
| PCC Base | (29) | (18) | 0 | 0 | 109 | Unknown base course material |



water is life

Significant DDOT Surface Restoration Cost

| Project | Total Project Cost (\$) | Cost of Paving (\$)* | Cost of Paving (%)* |
|---------|-------------------------|----------------------|---------------------|
| 8 | \$18,663,055 | \$3,358,500 | 18 |
| 9A | \$11,005,629 | \$4,228,484 | 38 |
| 9B | \$6,956,349 | \$1,196,659 | 17 |
| 10A | \$15,496,445 | \$3,345,811 | 22 |
| 10B | \$12,043,621 | \$3,004,641 | 25 |

* Including road, curb, and sidewalk



Detailed QA/QC Process

- Work with DDOT to establish DDOT requirement and standards
- Ensure we follow DDOT standards in quantity takeoffs
 - Mill & overlay
 - Trench backfill
- Perform more detailed field investigations
 - Site walk with Designer, CM and DDOT staff
- Evaluate assumptions related to unknowns
 - Risk management



AGENDA

- Small Diameter Water Main (SDWM) Program Background
- Lessons Learned
- **Proposed Solutions**
- SDWM 10A & 10B Change Orders



Proposed Solutions

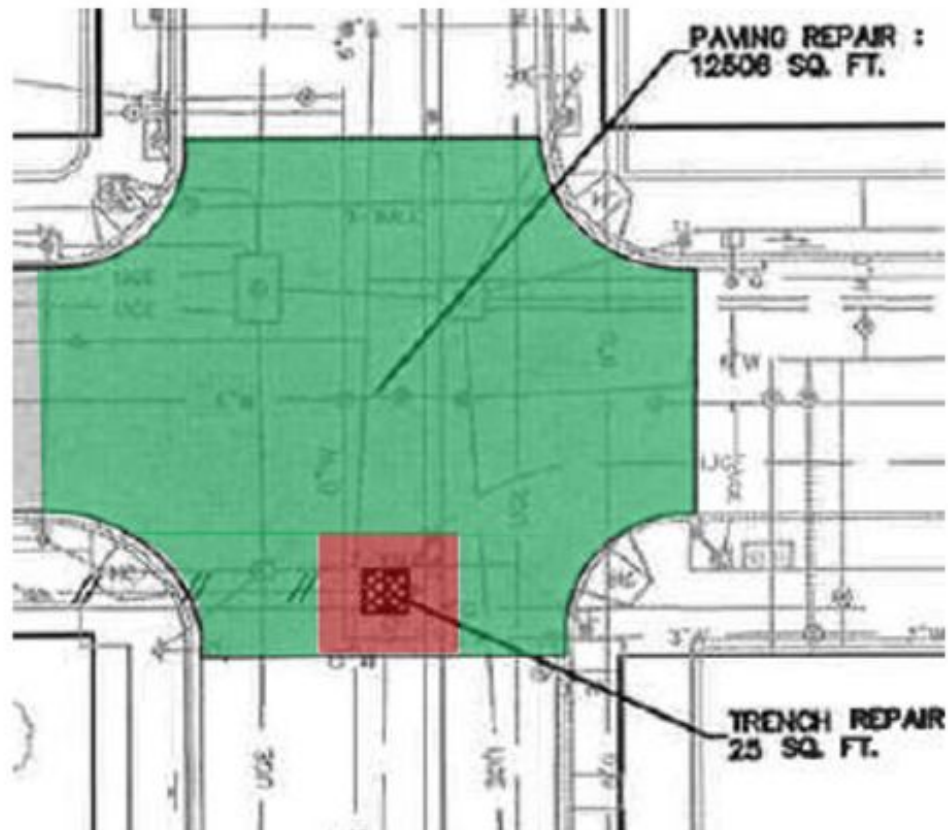
- Improve *quantity takeoffs*
- Account for significant *surface restoration* costs
- Coordinate field walks with DDOT to confirm *surface restoration*
- Perform detailed QA/QC process



Proposed Solutions

| Overrun Item | Proposed Solution |
|------------------------------|---|
| Copper Pipe 2” (non lead) | <ul style="list-style-type: none"> • More detailed quantity takeoffs • Sheet by sheet tracking • More conservative assumptions regarding unknowns |
| Asphalt M&O | <ul style="list-style-type: none"> • M&O Plans • Field walks with DDOT to confirm M&O plans • Include M&O plans in permit applications • Uniformly follow DDOT published standards |
| Borrow Trench Fill | <ul style="list-style-type: none"> • Uniformly follow DDOT published standards • Uniformly follow maximum trench pay-width |
| Flexible Asphalt Pavement | <ul style="list-style-type: none"> • Uniformly follow maximum trench pay-width (plus 12”) |
| PCC Base | <ul style="list-style-type: none"> • Geotechnical borings • Use larger contingencies in bid items |
| General | <ul style="list-style-type: none"> • Use manual takeoff to verify electronic takeoff |

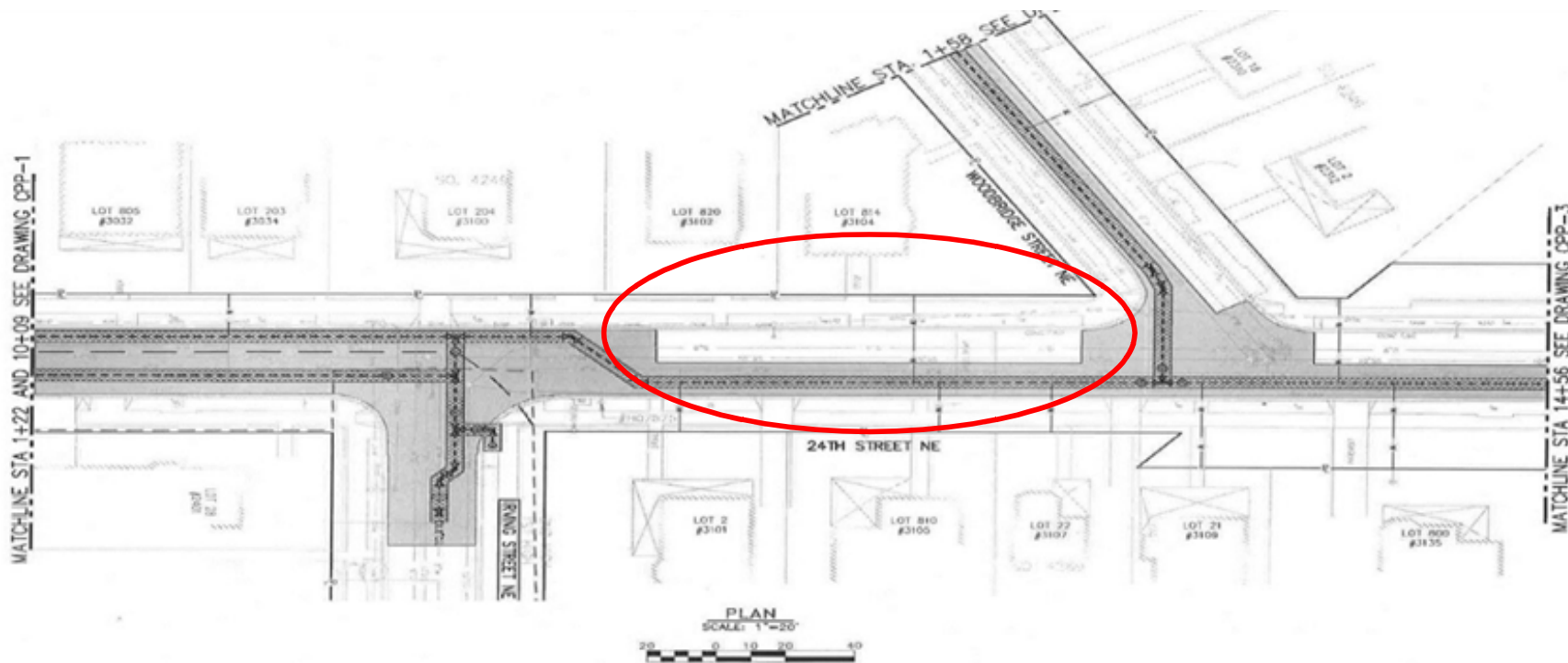
- New internal QA/QC Process: Use M&O Plans to verify takeoff quantities in Bid Docs





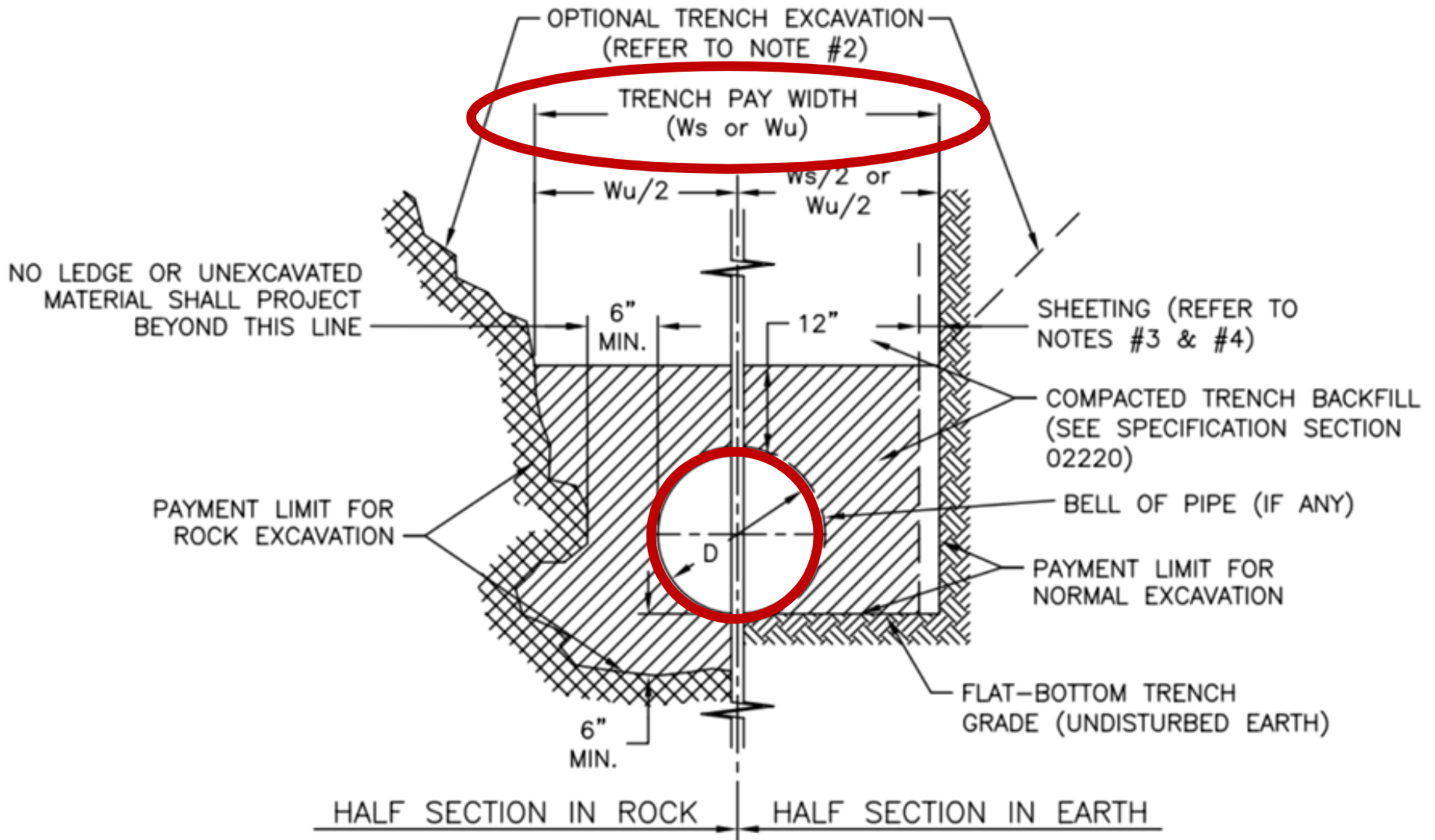
Proposed Solutions (cont'd)

- Postponed advertisement of SDWM11B, SDWM12A, Bloomingdale, and Spring Valley to resolve issue prior to bid solicitation



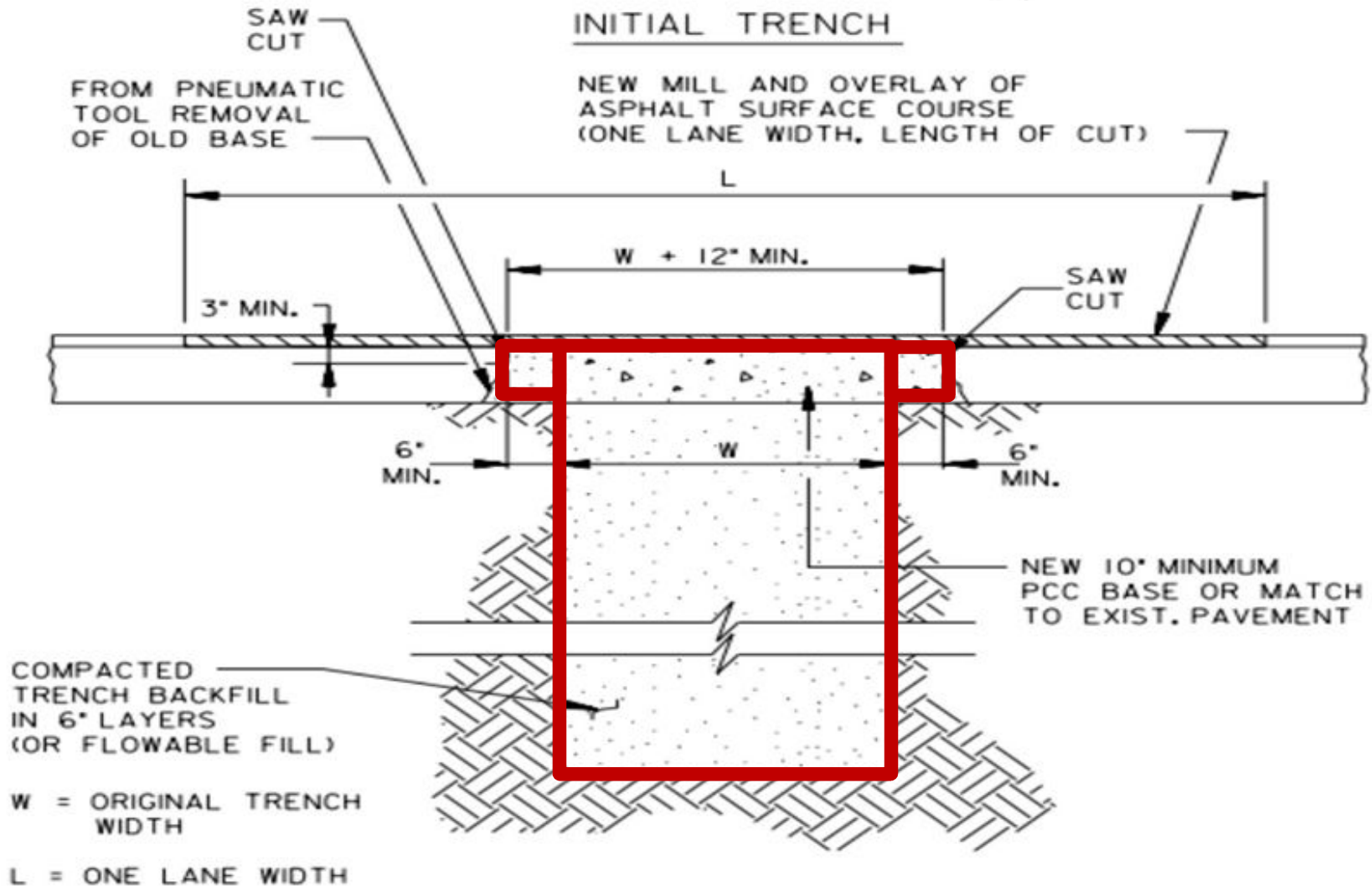


Max Trench Pay Width





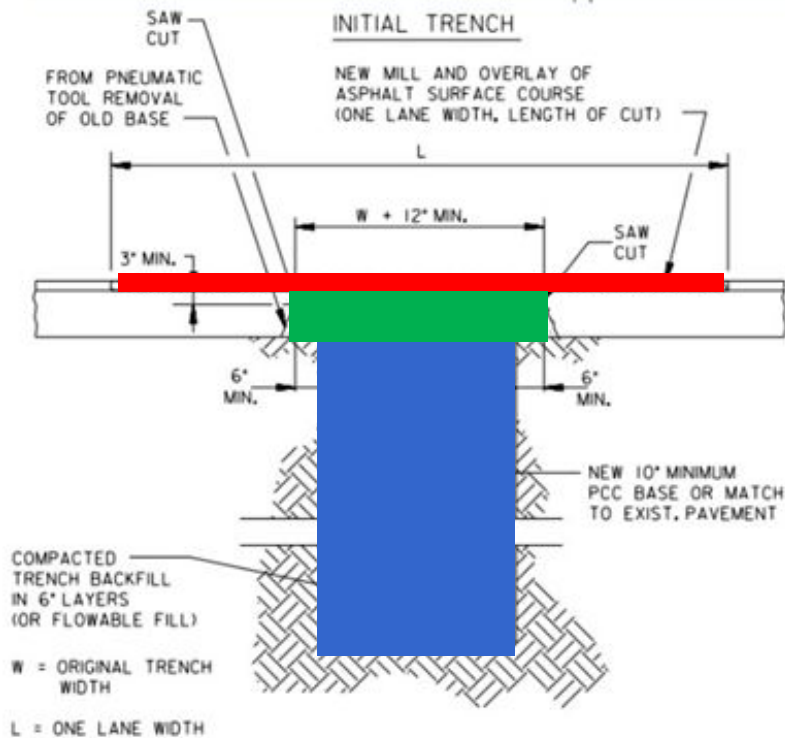
Max Trench Pay Width (plus 12")



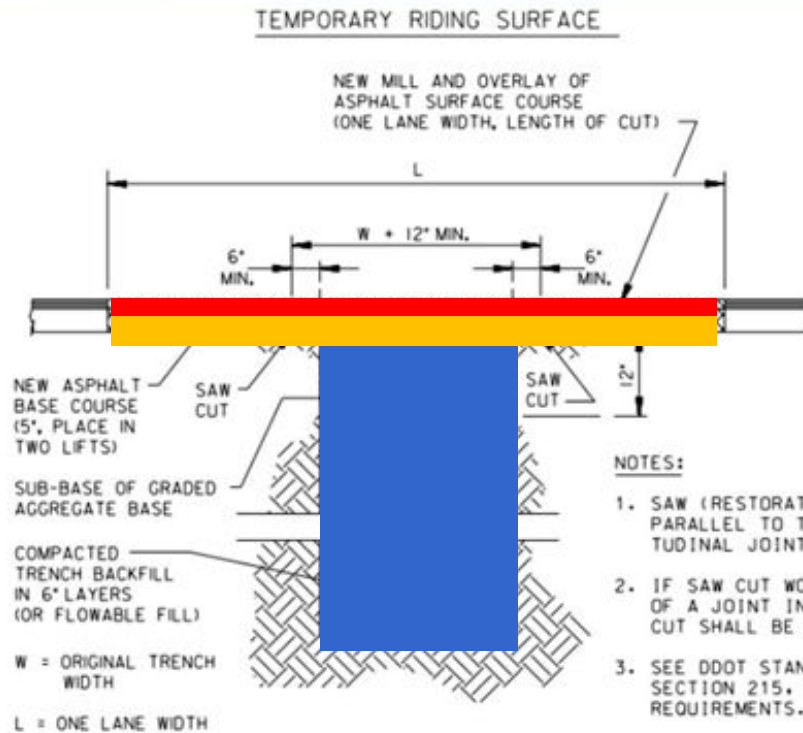
RESTORATION OF PCC BASE AND ASPHALT SURFACE



Proposed Solutions (cont'd)



RESTORATION OF PCC BASE AND ASPHALT SURFACE



RESTORATION OF FLEXIBLE PAVEMENT

NOTES:

1. SAW (RESTORATION) CUT SHALL BE PARALLEL TO THE ROADWAY LONGITUDINAL JOINT.
2. IF SAW CUT WOULD BE WITHIN 2 FT. OF A JOINT IN THE BASE COURSE, CUT SHALL BE EXTENDED TO THE JOINT.
3. SEE DDOT STANDARD SPECIFICATIONS, SECTION 215, FOR ADDITIONAL REQUIREMENTS.

- Use geotechnical borings to identify base course material
 - pro: Accuracy of estimates
 - con: Additional design cost
- Use larger contingent Item for unknown base course



AGENDA

- Small Diameter Water Main (SDWM) Program Background
- Lessons Learned
- Proposed Solutions
- **SDWM 10A & 10B Change Orders**



Construction Change Orders

| Project | Original Contract (\$) | Change Order (\$) | Change Order (%) | Percent Complete (%) |
|--------------|------------------------|-------------------|------------------|----------------------|
| 8 | \$16,654,450 | \$885,998 | 5 | 98 |
| 9A | \$10,512,544 | \$493,085 | 5 | 95 |
| 9B | \$6,956,349 | \$428,000 | 6 | 94 |
| 10A | \$13,542,445 | \$1,951,000 | 14 | 92 |
| CO#1 | \$1,951,000 * | | | |
| 10B | \$10,190,671 | \$1,852,950 | 18 | 86 |
| CO#1 | \$495,450 | | | |
| CO# 2 | \$1,357,500 * | | | |

* Change orders listed above represent under estimation of quantities; i.e., DC Water would have had to pay for this work even if the specification and plans had been perfect
Unit price of material did not increase for the change order



SDWM 10A - CO No.1

| Bid Items | Description | CO Qty | Unit Price | Total |
|-----------|-------------------------------|------------|--------------|--------------------|
| 12a | Copper Pipe 2" (Non-Lead) | 18,400 LF | \$60 | \$1,104,000 |
| 12b | Copper Pipe 2" (Lead public) | (1,500) LF | \$60 | \$(93,000) |
| 12c | Copper Pipe 2" (Lead private) | (1,500) LF | \$60 | \$(93,000) |
| 16 | Asphalt mill and overlay | 35,000 SY | \$23 | \$805,000 |
| 27 | Bus pad replacement | 6 EA | \$12,000 | \$72,000 |
| 28 | Borrow trench backfill | 5,200 CY | \$30 | \$156,000 |
| | | | Total | \$1,951,000 |



SDWM 10B - CO No.2

| Bid Items | Description | CO Qty | Unit Price | Total |
|-----------|--------------|-----------|--------------|--------------------|
| 13 | PCC Pavement | 8,100 SY | \$95.00 | \$769,500 |
| 14 | Asphalt M&O | 24,500 SY | \$24.00 | \$588,000 |
| | | | Total | \$1,357,500 |



Path Forward for Improvement

- Standardize estimating and measuring of *quantity takeoffs*
- Follow DDOT *surface restoration* standards uniformly
- Implement QA/QC process improvements



Questions/Discussion

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION

**Customer Information System and Implementation Services
(Non-Joint Use)**

Approval to execute a contract modification for an additional twenty-four (24) month extension in the amount of \$3,234,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

| | | |
|---|---------------------|------------------------------|
| PRIME: Orcom Solutions, LLC. 250 East Arapaho Road, Suite 100 P.O. Box 852757 Richardson, Texas 75085-2757 | SUBS: N/A | PARTICIPATION: N/A |
|---|---------------------|------------------------------|

DESCRIPTION AND PURPOSE

| | |
|-------------------------------------|------------------------------|
| Original Contract Value: | \$13,400,500.00 |
| Original Contract Dates: | 06-26-2000–06-25-2008 |
| Contract Modification Values: | \$1,070,910.00 |
| Contract Modification Dates: | 02-23-2001–06-25-2008 |
| Contract Modification Values: | \$12,953,400.00 |
| Contract Modification Dates: | 06-26-2008–06-25-2016 |
| Contract Modification Value: | \$3,234,000.00 |
| Contract Modification Date: | 06-26-2016–06-25-2018 |

Purpose of the Contract:

To contract for integrated customer information system that allows DC Water the ability to offer superior customer service, maintain customer data and service customer accounts.

Original Contract Scope:

To provide Customer Information System and Implementation (E-CIS) services to ensure effective communication between DC Water and its customers.

Reason for Change:

DC Water issued a Request for Proposal (RFP) for a new Customer Information System (CIS). The services must continue until the new CIS vendor is selected. The RFP is under evaluation.

Spending Previous Year:

| | |
|-------------------------------|---|
| Cumulative Contract Value: | 06-26-2000 to 06-25-2016: \$27,424,810.00 |
| Cumulative Contract Spending: | 06-26-2000 to 02-29-2016: \$24,169,432.40 |

Contractor's Past Performance:

The contractor's past performance has been satisfactory.

No LBE/ LSBE participation.

PROCUREMENT INFORMATION

| | | | |
|---------------------------|---|-------------------------|-----------------------|
| Contract Type: | Firm Fixed | Award Based On: | Highest Ranking Score |
| Commodity: | Customer Information System | Contract Number: | WAS-9087-AA-AB |
| Contractor Market: | Open Market with Preference Points for LBE and LSBE Participation | | |

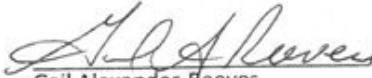
BUDGET INFORMATION

| | | | |
|----------------------|---------------|-------------------------|----------------|
| Funding: | Operating | Department: | Customer Care |
| Service Area: | DC Water wide | Department Head: | Lauren Preston |

ESTIMATED USER SHARE INFORMATION

| User | Share % | Dollar Amount |
|---|----------------|-----------------------|
| District of Columbia | 100.00% | \$3,234,000.00 |
| Washington Suburban Sanitary Commission | 0.00% | \$0.00 |
| Fairfax County | 0.00% | \$0.00 |
| Loudoun County | 0.00% | \$0.00 |
| Other (PI) | 0.00% | \$0.00 |
| TOTAL ESTIMATED DOLLAR AMOUNT | 100.00% | \$3,234,000.00 |

 3/10/16
 Dan Bae Date
 Director of Procurement

 3/10/16
 Gail Alexander-Reeves Date
 Director of Budget

 3/9/16
 Charles Kiely Date
 Assistant General Manager,
 Customer Care & Operations

 George S. Hawkins Date
 General Manager

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION

**Bill Printing and Mailroom Operations
(Non-Joint Use)**

Approval to execute contract modification for an additional twenty-four(24) month extension in the amount of \$900,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

| | | |
|---|---------------------|------------------------------|
| PRIME: Orcom Solutions, LLC. 250 E. Araphao Road, Suite 100 P.O. Box 852757 Richardson, Texas 75085-2757 | SUBS: N/A | PARTICIPATION: N/A |
|---|---------------------|------------------------------|

DESCRIPTION AND PURPOSE

| | |
|----------------------------------|------------------------------|
| Original Contract Value: | \$1,260,000.00 |
| Original Contract Dates: | 06-06-2010—06-08-2013 |
| No. of Option Years in Contract: | 2 |
| Option Year 1 Value: | \$360,000.00 |
| Option Year 1 Dates: | 06-09-2013—06-08-2014 |
| Option Year 2 Value: | \$380,000.00 |
| Option Year 2 Dates: | 06-09-2014—06-08-2015 |
| Modification Value: | \$450,000.00 |
| Modification Dates: | 06-09-2015—06-08-2016 |
| This Modification Value: | \$900,000.00 |
| This Modification Dates: | 06-09-2016—06-08-2018 |

Purpose of the Contract:

To contract for Bill Printing and Mailroom Operations services for the District of Columbia Water and Sewer Authority (DC Water) Department of Customer Care and Operations.

Original Contract Scope:

To provide for the printing and mailing of customer bills and other DC Water related publications or notices that are provided to DC Water's customers.

Reason for the Change:

DC Water issued a Request for Proposal (RFP) for a new Customer Information System (CIS). The mailroom function is part of the RFP that was issued. The RFP is currently under evaluation.

Spending Previous Year:

| | |
|-------------------------------|--|
| Cumulative Contract Value: | 06-09-2010 to 06-08-2016: \$2,450,000.00 |
| Cumulative Contract Spending: | 06-09-2010 to 03-02-2016: \$1,329,705.41 |

Contractor's Past Performance:

The contractor's past performance has been satisfactory.

No LBE/LSBE participation.

PROCUREMENT INFORMATION

| | | | |
|---------------------------|---|-------------------------|------------------|
| Contract Type: | Firm Fixed | Award Based On: | Single Proposer |
| Commodity: | Goods and Services | Contract Number: | WAS-10-023-AA-RE |
| Contractor Market: | Open Market with Preference Points for LBE and LSBE Participation | | |

BUDGET INFORMATION

| | | | |
|----------------------|---------------|-------------------------|----------------|
| Funding: | Operating | Department: | Customer Care |
| Service Area: | DC Water wide | Department Head: | Lauren Preston |

ESTIMATED USER SHARE INFORMATION

| User | Share % | Dollar Amount |
|---|----------------|---------------------|
| District of Columbia | 100.00% | \$900,000.00 |
| Washington Suburban Sanitary Commission | 0.00% | \$0.00 |
| Fairfax County | 0.00% | \$0.00 |
| Loudoun County | 0.00% | \$0.00 |
| Other (PI) | 0.00% | \$0.00 |
| TOTAL ESTIMATED DOLLAR AMOUNT | 100.00% | \$900,000.00 |


 Dan Bae
 Director of Procurement
 3/10/16
 Date


 Gail Alexander-Reeves
 Director of Budget
 3/10/16
 Date


 Charles Kiely
 Assistant General Manager,
 Customer Care and Operations
 3/9/16
 Date

 George S. Hawkins
 General Manager
 Date

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

CONSTRUCTION CONTRACT:

**Saint Elizabeths Water Tower and Large Diameter Transmission Mains
(Non-Joint Use)**

Approval to execute a construction contract for \$13,390,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

| PRIME: | SUBS: | PARTICIPATION: |
|---|---|-----------------------|
| Ulliman Schutte Construction Company, LLC 7615 Standish Place Rockville, MD | Apex Petroleum Corporation Upper Marlboro, MD MBE | 0.1% |
| | Elite Hauling group, Inc Clinton, MD MBE | 0.2% |
| | Hi-Mark Construction Group, Inc. Baltimore, MD MBE | 31.8% |
| | CMMD Enterprises., Inc Springfield, VA WBE | 0.2% |
| | IDEAL Electrical Supply Corporation Washington, DC WBE | 5.9% |

DESCRIPTION AND PURPOSE

| | |
|--|------------------------------|
| Contract Value, Not-To-Exceed: | \$13,390,000.00 |
| Contract Time: | 720 Days (2 Years, 0 Months) |
| Anticipated Contract Start Date (NTP): | 04-15-2016 |
| Anticipated Contract Completion Date: | 04-05-2018 |
| Bid Opening Date: | 02-10-2016 |
| Bids Received: | 4 |
| Other Bids Received: | |
| Ulliman Schutte Construction Company LLC | \$ 13,390,000.00 |
| W.M. Schlosser Company, Inc. | \$ 15,733,000.00 |
| Fort Myer Construction Corp | \$ 16,790,873.00 |
| Sagres Construction Corporation | \$ 18,757,584.00 |

Purpose of the Contract:

To build a 2.0 million gallon elevated water tower and approximately 4,000 feet of 24-inch transmission main to resolve an existing pressure deficiency in the historic Anacostia neighborhood, improve fire protection and also provide additional storage in the event of emergency.

Contract Scope:

- To construct 2.0 million gallon composite-style elevated water storage tower and approximately 4,000 feet of 24-inch ductile iron water transmission main and appurtenances.
- The contract also includes 12-foot wide paved access road construction and demolition of adjacent abandoned apartment building.

Federal Grant Status:

- Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

| | | | |
|---------------------------|--------------|-------------------------|---------------------------------------|
| Contract Type: | Fixed Price | Award Based On: | Lowest responsive, responsible bidder |
| Commodity: | Construction | Contract Number: | 130170 |
| Contractor Market: | Open Market | | |

BUDGET INFORMATION

| | | | |
|----------------------|---------|-------------------------|------------------------------------|
| Funding: | Capital | Department: | Engineering and Technical Services |
| Service Area: | Water | Department Head: | Liliana Maldonado |
| Project: | MA | | |

ESTIMATED USER SHARE INFORMATION

| User | Share % | Dollar Amount |
|---|----------------|-------------------------|
| District of Columbia | 100.00% | \$ 13,390,000.00 |
| Federal Funds | 0.00% | \$ 0.00 |
| Washington Suburban Sanitary Commission | 0.00% | \$ 0.00 |
| Fairfax County | 0.00% | \$ 0.00 |
| Loudoun County & Potomac Interceptor | 0.00% | \$ 0.00 |
| Total Estimated Dollar Amount | 100.00% | \$ 13,390,000.00 |


 Gail Alexander-Reeves Date
 Director of Budget


 Dan Bae Date
 Director of Procurement


 Leonard R. Benson Date
 Chief Engineer

 George S. Hawkins Date
 General Manager

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**CONSTRUCTION CONTRACT CHANGE ORDER:
Small Diameter Water Main Replacement 10A
(Non-Joint Use)**

Approval to execute Change Order No.01 for \$1,951,000.00. The modification will exceed the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

| PRIME: | SUBS: | PARTICIPATION: |
|--|--|-----------------------|
| Capitol Paving of D.C., Inc. 2211 Channing St., NE Washington, DC 20018 (MBE) | Omni Excavators Inc. Washington DC MBE | 26.3% |
| | Fort Myer Construction Corp. Washington, DC MBE | 5.8% |
| | Acorn Supply Distribution Inc. White Marsh, MD WBE | 6.0% |

DESCRIPTION AND PURPOSE

| | |
|--|-----------------------------|
| Original Contract Value: | \$13,542,445.00 |
| Value of this Change Order: | \$ 1,951,000.00 |
| Cumulative CO Value, including this CO: | \$ 1,951,000.00 |
| Current Contract Value, including this CO: | \$15,493,445.00 |
| Original Contract Time: | 550 Days (1 Year, 6 Months) |
| Time extension, this CO: | 128 Days |
| Total CO contract time extension: | 128 Days |
| Contract Start Date (NTP): | 08-06-2014 |
| Anticipated Contract Completion Date: | 06-14-2016 |
| Cumulative CO % of Original Contract: | 14.4% |
| Contract completion %: | 92.0% |

Purpose of the Contract:

To replace water mains and associated appurtenances to improve water quality and performance of the distribution system.

Original Contract Scope:

- Replace approximately 5.4 miles of small-diameter water mains, fire hydrants and associated appurtenances.
- Replace copper water pipe of 2 inch and smaller and associated appurtenances in public and private space.
- Restoration of disturbed pavements and surfaces.

Current Change Order Scope:

An additional 18,400 linear feet of Copper Water Services, 35,000 square yards of Asphalt Mill & Overlay, 5,200 cubic yards of Borrow Trench Backfill and 6 Bus Pads Replacements are required to complete the contract work as quantities estimated during design did not take into account the full extent of the work required.

PROCUREMENT INFORMATION

| | | | |
|---------------------------|--------------|-------------------------|---------------------------------------|
| Contract Type: | Fixed Price | Award Based On: | Lowest responsive, responsible bidder |
| Commodity: | Construction | Contract Number: | 130200 |
| Contractor Market: | Open Market | | |

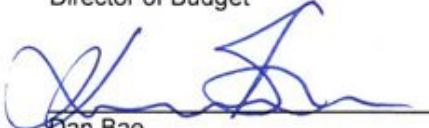
BUDGET INFORMATION

| | | | |
|----------------------|---------|-------------------------|------------------------------------|
| Funding: | Capital | Department: | Engineering and Technical Services |
| Service Area: | Water | Department Head: | Liliana Maldonado |
| Project: | O2 | | |

ESTIMATED USER SHARE INFORMATION

| User | Share % | Dollar Amount |
|---|----------------|-----------------------|
| District of Columbia | 100.00% | \$1,951,000.00 |
| Federal Funds | 0.00% | \$0.00 |
| Washington Suburban Sanitary Commission | 0.00% | \$0.00 |
| Fairfax County | 0.00% | \$0.00 |
| Loudoun County & Potomac Interceptor | 0.00% | \$0.00 |
| Total Estimated Dollar Amount | 100.00% | \$1,951,000.00 |

 3/10/16
 Gail Alexander-Reeves Date
 Director of Budget

 3/10/16
 Dan Bae Date
 Director of Procurement

 3-9-16
 Leonard R. Benson Date
 Chief Engineer

_____/_____
 George S. Hawkins Date
 General Manager

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

CONSTRUCTION CONTRACT CHANGE ORDER:

**Small Diameter Water Main Replacement 10b
(Non-Joint Use)**

Approval to execute Change Order No.02 for \$1,357,500.00. The modification will exceed the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

| PRIME: | SUBS: | PARTICIPATION: |
|--|--|-----------------------|
| Capitol Paving of D.C., Inc. 2211 Channing St., NE Washington, DC 20018 (MBE) | Omni Excavators Inc. Washington DC MBE | 32.0% |
| | Fort Myer Construction Corp. Washington, DC MBE | 4.1% |
| | Acorn Supply Distribution Inc. White Marsh, MD WBE | 14.9% |

DESCRIPTION AND PURPOSE

| | |
|--|-----------------------------|
| Original Contract Value: | \$ 10,190,671.00 |
| Value of this Change Order: | \$ 1,357,500.00 |
| Cumulative CO Value, including this CO: | \$ 1,852,950.00 |
| Current Contract Value, including this CO: | \$ 12,043,621.00 |
| Original Contract Time: | 550 Days (1 Year, 6 Months) |
| Time extension, this CO: | 0 Days |
| Total CO contract time extension: | 0 Days |
| Contract Start Date (NTP): | 12-16-2014 |
| Anticipated Contract Completion Date: | 06-17-2016 |
| Cumulative CO % of Original Contract: | 18.2% |
| Contract completion % | 86.0% |

Purpose of the Contract:

Replace water mains that have experienced failures, or have a history of low water pressure or water quality complaints.

Original Contract Scope:

- Approximately 5.0 miles of water mains and associated valves and appurtenances.
- Copper water services 2-inch and smaller in public and private space.
- Curb stop / curb stop box, meter box and penetration through building wall and connection to first fitting inside the building including installation of a shut-off valve and pressure reducing valve.
- Permanent pavement and surface restoration.

Current Change Order Scope:

An additional 8,100 square yards of Concrete Pavement and 24,500 square yards of Asphalt Surface Mill and Overlay are required to complete the contract work as quantities estimated during design did not take into account the full extent of the work required.

PROCUREMENT INFORMATION


| | | | |
|---------------------------|--------------|-------------------------|---------------------------------------|
| Contract Type: | Fixed Price | Award Based On: | Lowest responsive, responsible bidder |
| Commodity: | Construction | Contract Number: | 140010 |
| Contractor Market: | Open Market | | |

BUDGET INFORMATION

| | | | |
|----------------------|---------|-------------------------|------------------------------------|
| Funding: | Capital | Department: | Engineering and Technical Services |
| Service Area: | Water | Department Head: | Liliana Maldonado |
| Project: | O2 | | |

ESTIMATED USER SHARE INFORMATION

| User | Share % | Dollar Amount |
|---|----------------|-----------------------|
| District of Columbia | 100.00% | \$1,357,500.00 |
| Federal Funds | 0.00% | \$0.00 |
| Washington Suburban Sanitary Commission | 0.00% | \$0.00 |
| Fairfax County | 0.00% | \$0.00 |
| Loudoun County & Potomac Interceptor | 0.00% | \$0.00 |
| Total Estimated Dollar Amount | 100.00% | \$1,357,500.00 |


 Gail Alexander-Reeves
 Director of Budget
 Date 3/10/16


 Dan Bae
 Director of Procurement
 Date 3/10/16


 Leonard R. Benson
 Chief Engineer
 Date 3-9-16

 George S. Hawkins
 General Manager
 Date