

Optimizing Capital Program Management PMIS and CMIS with the City of Columbus

OWEA 2015 Pre-Conference Workshop

Justin McKinney, City of Columbus, DPU

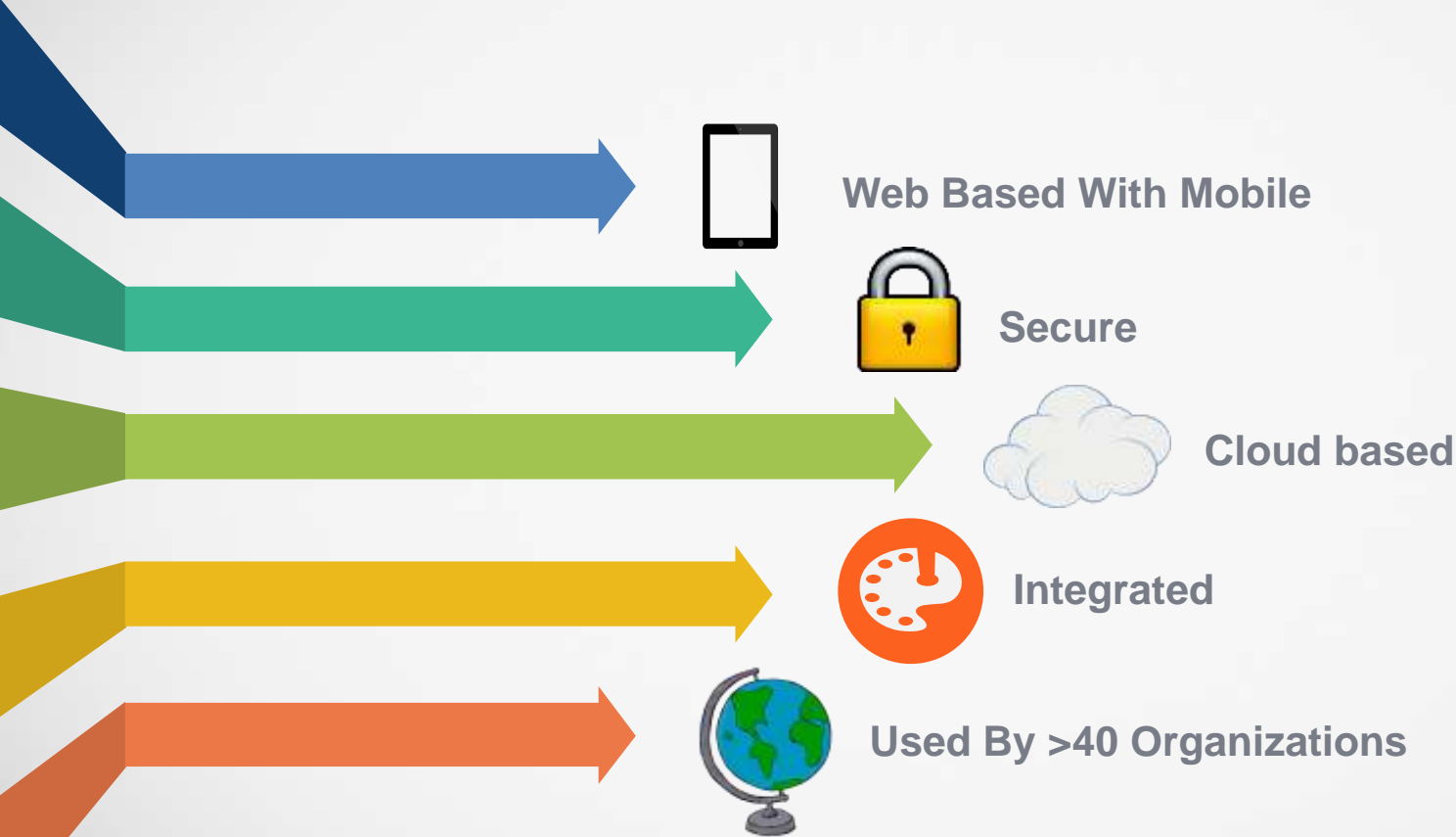
Michael Rotunno, P.E., ARCADIS

AGENDA

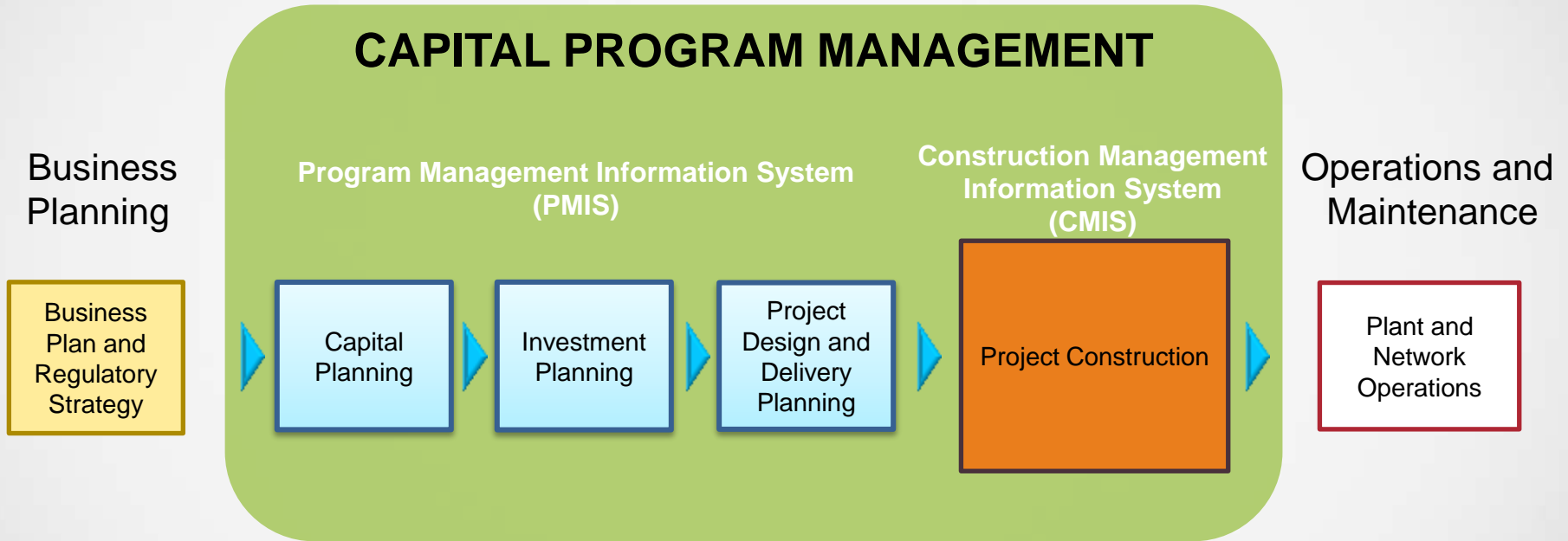
- Overview
- Program Management Information System
- Construction Management Information System
- Conclusion
- Questions and Answers



WHAT IS ORION PMIS/CMIS?



PROGRAM MANAGEMENT OVERVIEW



CITY OF COLUMBUS AT A GLANCE

CITY OF COLUMBUS

- 15th Largest City in the Country
- Increasing population for last 25 years.
- Top 10 Relocation Cities



PUBLIC UTILITIES

3 Divisions

- \$530M combined annual operating budget
- \$250M combined annual capital budget
- 3 WTP w/ 240 MGD capacity
- 2 WWTP w/ 480 MGD capacity
- Nearly 10,000 miles of water and sewer lines



PUBLIC SERVICE

Designs and constructs roadway improvements

- \$98M annual operating budget
- \$105M annual capital budget
- Maintains 6,300+ miles of roadways
- Sustains 219 bridges

MANAGEMENT OBJECTIVES FOR PMIS

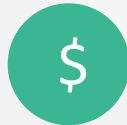
Program Management Information System (PMIS)



Coordinate project planning between Departments and Divisions to avoid conflicts and improve efficiency



Execute projects on schedule and on budget



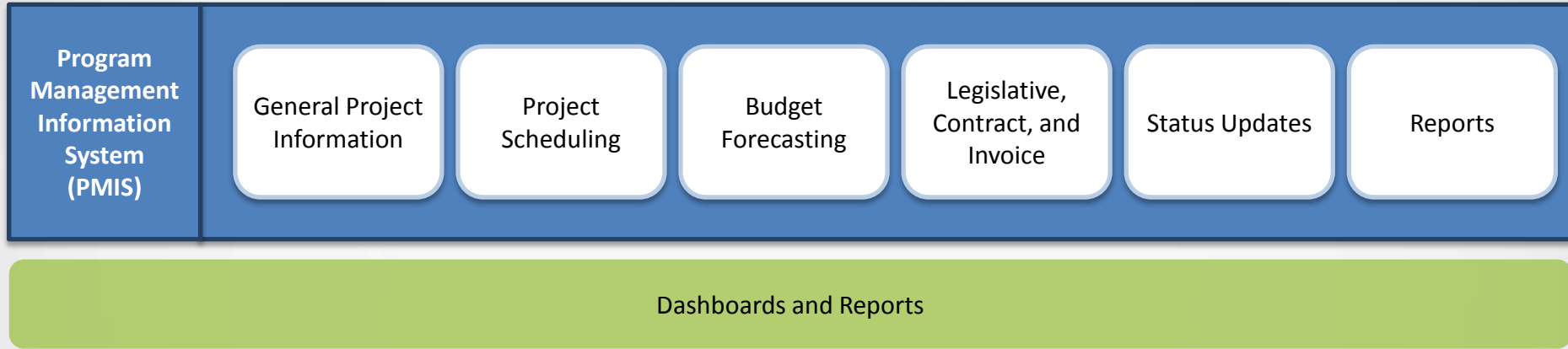
Plan capital budget and bond sales



Communicate clearly with citizens, media, and other City Staff



PMIS FUNCTIONALITY



PROJECT GENERAL INFORMATION

| | | | | | | |
|------|-----------------------------|--------------------|--------------------|------------------------------------|----------------|---------|
| PMIS | General Project Information | Project Scheduling | Budget Forecasting | Legislative, Contract, and Invoice | Status Updates | Reports |
|------|-----------------------------|--------------------|--------------------|------------------------------------|----------------|---------|

COLUMBUS PMIS
Change Password | Logout (MM/YY)

DASHBOARD SYSTEM CIP CONSTRUCTION REPORTS DIGITAL LIBRARY CIP VIEWER (MAP)

Parent Project # 650704-100001 - OARS - (60-05 OSIS Augment Relief Sewer, Henry St.-JPWWTP OARS)

⏪ Back + Add to Dashboard

General Information

| <ul style="list-style-type: none"> General Attributes Schedule Budget Funding Legislation Contracts Invoices Status Update Diary Tasks Documents Contract Admin | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid #ccc;">*Project #:</td> <td>650704 - 100001</td> </tr> <tr> <td style="border: 1px solid #ccc;">*Project Name:</td> <td>60-05 OSIS Augment Relief Sewer, Henry St.-JPWWTP OA</td> </tr> <tr> <td style="border: 1px solid #ccc;">Provisional Project?:</td> <td><input type="checkbox"/></td> </tr> <tr> <td style="border: 1px solid #ccc;">Do Not Map:</td> <td><input type="checkbox"/></td> </tr> <tr> <td style="border: 1px solid #ccc;">*Project Type:</td> <td>CIP Funded</td> </tr> <tr> <td style="border: 1px solid #ccc;">*Department:</td> <td>PUBLIC UTILITIES</td> </tr> <tr> <td style="border: 1px solid #ccc;">Project Manager:</td> <td>Fedner, Greg</td> </tr> <tr> <td style="border: 1px solid #ccc;">*Stage:</td> <td>Execution</td> </tr> <tr> <td style="border: 1px solid #ccc;">*Status:</td> <td>Active</td> </tr> <tr> <td style="border: 1px solid #ccc;">Job #:</td> <td>OARS</td> </tr> <tr> <td style="border: 1px solid #ccc;">Public Use Description:</td> <td>OSIS Augmentation and Relief Sewer Project, Phase 1</td> </tr> <tr> <td style="border: 1px solid #ccc;">Project Scope:</td> <td>The OARS project was split into two phases of construction, as follows: Phase 1 includes approximately 23,300 feet of 20-foot diameter tunnel, 3 large shafts, a relief structure that will divert high flows from the OSIS to the new tunnel, the associated tangential inlet, drop structure and</td> </tr> </table> | *Project #: | 650704 - 100001 | *Project Name: | 60-05 OSIS Augment Relief Sewer, Henry St.-JPWWTP OA | Provisional Project?: | <input type="checkbox"/> | Do Not Map: | <input type="checkbox"/> | *Project Type: | CIP Funded | *Department: | PUBLIC UTILITIES | Project Manager: | Fedner, Greg | *Stage: | Execution | *Status: | Active | Job #: | OARS | Public Use Description: | OSIS Augmentation and Relief Sewer Project, Phase 1 | Project Scope: | The OARS project was split into two phases of construction, as follows: Phase 1 includes approximately 23,300 feet of 20-foot diameter tunnel, 3 large shafts, a relief structure that will divert high flows from the OSIS to the new tunnel, the associated tangential inlet, drop structure and | <table style="width: 100%; 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border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="border: none;"></th> <th style="border: none; text-align: center;">Contact</th> <th style="border: none; text-align: center;">Role</th> <th style="border: none; text-align: center;">Phone#</th> </tr> </thead> <tbody> <tr> <td style="border: none;"></td> <td style="border: none;"> Jeffrey Coffey</td> <td style="border: none;">Design Engineer</td> <td style="border: none;">614-888-0040</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"> Robert Goodfellow</td> <td style="border: none;">CA/CI Team Leader</td> <td style="border: none;">3019218247</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"> Jeff Murphy</td> <td style="border: none;">Consultant</td> <td style="border: none;">6148711441</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"> Rob Rautenberg</td> <td style="border: none;">Contractor - Project</td> <td style="border: none;">6148714528</td> </tr> </tbody> </table> | *Division: | Sanitary Sewers | Section: | Collection System | Project Category: | WW2-Combined Sewer System Project | Purpose: | Other | Planning Area: | -GREENLAWN/FRANK ROAD | Is cost Reduction: | <input checked="" type="checkbox"/> | Cost Reduction Description: | This project will reduce the number of overflows from the Whittier Street Storm Tanks resulting in reduced O&M costs | Budget (PM Estimate): | \$339,704,706.00 | Budget(Approved): | \$379,802,704.00 | Budget Confidence: | Control | CurrentPhase: | Construction | | Contact | Role | Phone# | | Jeffrey Coffey | Design Engineer | 614-888-0040 | | Robert Goodfellow | CA/CI Team Leader | 3019218247 | | Jeff Murphy | Consultant | 6148711441 | | Rob Rautenberg | Contractor - Project | 6148714528 |
|--|--|----------------------|-----------------|----------------|--|-----------------------|--------------------------|-------------|--------------------------|----------------|------------|--------------|------------------|------------------|--------------|---------|-----------|----------|--------|--------|------|-------------------------|---|----------------|---|---|------------|-----------------|----------|-------------------|-------------------|-----------------------------------|----------|-------|----------------|-----------------------|--------------------|-------------------------------------|-----------------------------|--|-----------------------|------------------|-------------------|------------------|--------------------|---------|---------------|--------------|--|---------|------|--------|--|----------------|-----------------|--------------|--|-------------------|-------------------|------------|--|-------------|------------|------------|--|----------------|----------------------|------------|
| *Project #: | 650704 - 100001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Project Name: | 60-05 OSIS Augment Relief Sewer, Henry St.-JPWWTP OA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Provisional Project?: | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Do Not Map: | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Project Type: | CIP Funded | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Department: | PUBLIC UTILITIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: | Fedner, Greg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Stage: | Execution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Status: | Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Job #: | OARS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Public Use Description: | OSIS Augmentation and Relief Sewer Project, Phase 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Scope: | The OARS project was split into two phases of construction, as follows: Phase 1 includes approximately 23,300 feet of 20-foot diameter tunnel, 3 large shafts, a relief structure that will divert high flows from the OSIS to the new tunnel, the associated tangential inlet, drop structure and | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Division: | Sanitary Sewers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section: | Collection System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Category: | WW2-Combined Sewer System Project | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purpose: | Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Planning Area: | -GREENLAWN/FRANK ROAD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Is cost Reduction: | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cost Reduction Description: | This project will reduce the number of overflows from the Whittier Street Storm Tanks resulting in reduced O&M costs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Budget (PM Estimate): | \$339,704,706.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Budget(Approved): | \$379,802,704.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Budget Confidence: | Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CurrentPhase: | Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | Role | Phone# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jeffrey Coffey | Design Engineer | 614-888-0040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Robert Goodfellow | CA/CI Team Leader | 3019218247 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jeff Murphy | Consultant | 6148711441 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rob Rautenberg | Contractor - Project | 6148714528 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SCHEDULE SCREEN

PMIS

General Project Information

Project Scheduling

Budget Forecasting

Legislative, Contract, and Invoice

Status Updates

Reports

COLUMBUS PMIS

Change Password | L

DASHBOARD SYSTEM CIP CONSTRUCTION REPORTS DIGITAL LIBRARY CIP VIEWER (MAP) ADMIN

Parent Project # 650704-100001 - OARS - (60-05 OSIS Augment Relief Sewer, Henry St.-JPWWTP OARS)

Back to Project # List Save History of Changes Print to Excel

Schedule Information

General
Attributes
Schedule
Budget
Funding
Legislation
Contracts
Invoices
Status Update
Diary
Tasks
Documents
Contract Admin

Schedule

Template:

/ Schedule / Construction

| Phase/Milestone | Planned Start | Planned End | Duration | Revised Start | Revised End | Duration | Actual Start | Actual End | Order |
|------------------------------------|---------------|--------------|----------|---------------|--------------|----------|--------------|--------------|-------|
| Construction Procurement | Feb 15, 2010 | Aug 23, 2010 | 189 | | | 0 | Feb 15, 2010 | Aug 23, 2010 | |
| Construction | Aug 26, 2010 | Dec 31, 2015 | 1953 | | | 0 | Aug 26, 2010 | | |
| Pre-Construction Meeting | | Aug 26, 2010 | | | | | | Aug 26, 2010 | |
| Notice to Proceed * | | Sep 02, 2010 | | | | | | Sep 02, 2010 | |
| OARS ODS Substantial Completion | | Jun 23, 2013 | | | Jul 15, 2013 | | | | |
| DLZ Contract Mod No. 8 | | Dec 31, 2015 | | | | | | | |
| DLZ Contract Mod No. 9 | | Dec 31, 2016 | | | | | | | |
| B&V Contract Mod No. 5 | | Jul 15, 2015 | | | | | | | |
| B&V Contract Mod No. 6 | | Jul 15, 2016 | | | | | | | |
| Construction Contract Modification | | Jan 30, 2015 | | | | | | | |

last updated 04/30/13 by Fedner, Greg

BUDGET SCREEN

PMIS

General Project Information

Project Scheduling

Budget Forecasting

Legislative, Contract, and Invoice

Status Updates

Reports

COLUMBUS PMIS Change Password | Logout (junc/kim)

DASHBOARD SYSTEM CIP CONSTRUCTION REPORTS DIGITAL LIBRARY CIP VIEWER (MAP) ADMIN

Parent Project # 650704-100001 - OARS - (60-05 OSIS Augment Relcif Sewer, Henry St.-JPWWTP OARS)

Back to Project List Save View History Print to Excel

Budget Information

General Attributes Schedule Budget Funding Legislation Contracts Invoices Status Update: Diary Tasks Documents Contract Admin

Budget Information

[Add Cost Category](#) Budget Verification 05/08/2015 Greg Fedner

| Cost Category | PM Estimate | Phase End/ Council Approval | Basis of Estimate | Estimate Based on Inflation | | |
|--|-------------------------|--------------------------------|-------------------|--------------------------------|---|---|
| Engineering | | | | | | |
| Original Engineering Contract | \$2,500,000.00 | 07/19/2010 | 2010 | \$2,500,000.00 | ✖ | 👉 |
| 2011 Original Engineering Contract Mod | \$6,048,867.00 | 01/01/2011 | 2011 | \$6,048,867.00 | ✖ | 👉 |
| 2012 Original Engineering Contract Mod | \$7,875,638.00 | 01/01/2012 | 2012 | \$7,875,638.00 | ✖ | 👉 |
| 2013 Original Engineering Contract Mod | \$7,994,226.00 | 01/01/2013 | 2013 | \$7,994,226.00 | ✖ | 👉 |
| 2014 Original Engineering Contract Mod | \$6,185,975.00 | 01/01/2014 | 2014 | \$6,185,975.00 | ✖ | 👉 |
| DLZ Contract Mod No. 8 | \$3,000,000.00 | 12/31/2015 | 2014 | \$3,090,000.00 | ✖ | 👉 |
| DLZ Contract Mod No. 9 | \$1,000,000.00 | 12/31/2016 | 2014 | \$1,060,900.00 | ✖ | 👉 |
| | \$34,604,706.00 | | | \$34,755,606.00 | | |
| Construction | | | | | | |
| Original Construction Contract | \$264,500,000.00 | 07/19/2010 | 2014 | \$264,500,000.00 | ✖ | 👉 |
| Construction Contract Modification | \$29,500,000.00 | 01/30/2015 | 2014 | \$30,385,000.00 | ✖ | 👉 |
| BMV Contract Mod No. 5 | \$5,600,000.00 | 07/15/2015 | 2014 | \$5,768,000.00 | ✖ | 👉 |
| BMV Contract Mod No. 6 | \$5,500,000.00 | 07/15/2016 | 2014 | \$5,834,950.00 | ✖ | 👉 |
| | \$305,100,000.00 | | | \$306,487,950.00 | | |

LEGISLATION, CONTRACT AND INVOICE SCREENS

PMIS

General Project Information

Project Scheduling

Budget Forecasting

Legislative, Contract, and Invoice

Status Updates

Reports

COLUMBUS PMIS Change Password | Logout (MM)

DASHBOARD SYSTEM CIP CONSTRUCTION REPORTS DIGITAL LIBRARY CIP VIEWER (MAP)

Parent Project # 650704-100001 - OARS - (60-05 OSIS Augment Relief Sewer, Henry St.-JPWWTP OARS) Page 1 of 18 Show 10 per p

Back to Project List Filter By Vendor Search By Voucher #

Invoice Information

- General Attributes
- Schedule
- Budget
- Funding
- Legislation
- Contracts
- Invoices
- Status Update
- Diary
- Tasks
- Documents
- Contract Admin

| Invoices | | | | | | | | | | |
|---------------|--------------|--------------------------|--------------|------------|------------------------------------|--------------|-----------------|------------------|---------|------|
| Project # | Contract # | Voucher # | Voucher Date | Vendor No. | Vendor Name | Amount | Contract Amount | Cumulative Total | Balance | % |
| 650704-100001 | EA008522/001 | VA616237 | 08/25/2011 | 431833073 | BLACK & VEATCH CORPORATION | \$216,228.43 | \$216,228.43 | \$216,228.43 | \$0.00 | 100% |
| 650704-100001 | EA041267/001 | VA597223 | 02/26/2008 | 137148329 | MANN, DANIEL L JR ESQUIRE | \$1,400.00 | \$1,400.00 | \$1,400.00 | \$0.00 | 100% |
| 650704-100001 | EA041271/001 | VA597227 | 02/26/2008 | 311330936 | W LOCKE MCKENZIE | \$1,080.00 | \$1,080.00 | \$1,080.00 | \$0.00 | 100% |
| 650704-100001 | EA041335/001 | VA598199 | 05/01/2008 | 311330936 | W LOCKE MCKENZIE | \$200.00 | \$200.00 | \$200.00 | \$0.00 | 100% |
| 650704-100001 | EA041338/001 | VA598202 | 05/01/2008 | 314444315 | VOELKER & VOELKER ATTORNEYS AT LAW | \$1,818.00 | \$1,818.00 | \$1,818.00 | \$0.00 | 100% |
| 650704-100001 | EA041387/001 | VA598784 | 06/10/2008 | 310861362 | NASH-WILSON & ASSOCIATES INC | \$1,250.00 | \$1,250.00 | \$1,250.00 | \$0.00 | 100% |

MONTHLY STATUS REPORT

PMIS

General Project Information

Project Scheduling

Budget Forecasting

Legislative, Contract, and Invoice

Status Updates

Reports

Project # 650704-100001 (60-05 OSIS Augment Relief Sewer, Henry St. JFWWTP OARs)
Progress Report for Period May, 2015 (05/01/2015 - 05/31/2015)

Picture for this Reporting Period: (This will be used in status reports)

Current Phase for Reporting Period: Construction (This will be used in status reports)

Period Summary: Status for the week ending May 2, 2015:

JP Site: CSI / Hanson has delayed delivery of PCC segments to JP Site and Shetty Materials has delayed loading & hauling tunnel muck to their quarry until the tunnel excavation resumes. Kenny/Obayashi (K/O)

| Construction Procurement | | Status: Completed | | Status: Active | | % Complete: 100 | |
|--------------------------|------------------------------------|-------------------|------------|----------------|------------|-----------------|--------------|
| Construction | | Status: Active | | Status: Active | | % Complete: 75 | |
| Phase | Classified | Start Date | End Date | Start Date | End Date | Start Date | End Date |
| Construction | | 08/26/2010 | 12/31/2015 | | | Aug 26, 2010 | |
| Milestones | | | | | | | |
| | Pre-Construction Meeting | | 08/26/2010 | | | | Aug 26, 2010 |
| | Notice to Proceed * | | 09/03/2010 | | | | Sep 02, 2010 |
| | OARS ODS Substantial Completion | | 06/23/2013 | | 07/15/2013 | | |
| | DL2 Contract Mod No. 8 | | 12/31/2015 | | | | |
| | DL2 Contract Mod No. 9 | | 12/31/2016 | | | | |
| | BBV Contract Mod No. 5 | | 07/15/2015 | | | | |
| | BBV Contract Mod No. 6 | | 07/15/2016 | | | | |
| | Construction Contract Modification | | 01/30/2015 | | | | |
| | WGC Substantial Completion | | 09/21/2013 | | 10/16/2013 | | |
| | OARS OSS Silt and Rough Grade | | 06/08/2014 | | 01/20/2015 | | |
| | ShAR 8 Substantial Completion | | 06/01/2014 | | | | |
| | Substantial Completion | | 12/31/2014 | | 06/30/2017 | | |
| | Construction Completion Date * | | 06/01/2015 | | 06/29/2017 | | |
| | Closed Construction Contract * | | 12/31/2015 | | | | |

Information for Progress Report

Work Performed: Status for the week ending May 2, 2015:

Work Planned: JP Site: CSI / Hanson has delayed delivery of PCC segments to JP Site and Shetty Materials has delayed loading & hauling tunnel muck to their quarry until the tunnel excavation resumes. Kenny/Obayashi (K/O) continued receiving cement & sodium silicate and continued SWP3 site maintenance including silt fence maintenance and

Action Items:

Issues: CO No. 9 has been successfully negotiated and settled by the City and KOJV for \$26.5 Million. Cut-off Grant issue is currently under negotiation.

REPORTS

PMIS

General Project Information

Project Scheduling

Budget Forecasting

Legislative, Contract, and Invoice

Status Updates

Reports

COLUMBUS PMIS

Change Password

DASHBOARD SYSTEM CIP CONSTRUCTION REPORTS DIGITAL LIBRARY CIP VIEWER

Directors Report [Collapse](#)

[Upcoming Construction Report \(MyReports\)](#)
Directors Report - Construction

[Upcoming Engineering Report \(MyReports\)](#)
Directors Report - Engineering

DPS Reports [Collapse](#)

[DPS Design Report \(MyReports\)](#)
DPS Design Report

[DPS Planning Report \(MyReports\)](#)
DPS Planning Report

DPU Reports [Collapse](#)

[DPU Project Schedule Summary \(MyReports\)](#)
DPU Project Schedule Summary

Fiscal [Collapse](#)

[Monthly Legislative Tracking Sheet \(MyReports\)](#)
Monthly Legislative Tracking Sheet

[Completed Legislation Report \(MyReports\)](#)
Completed Legislation Report

[CIP Report By Year \(MyReports\)](#)
CIP Report By Year

[Outstanding Contracts \(MyReports\)](#)
Outstanding Contracts

GIS [Collapse](#)

[GIS Verification Report \(MyReports\)](#)

MANAGEMENT OBJECTIVES FOR CMIS

Construction Management Information System (CMIS)



Efficient process for field inspectors to record daily reports



Link contractor payment requests with daily reports from field inspectors and Change order management



Real time contract status



CMIS FUNCTIONALITY

Construction
Management
Information
System
(CMIS)

Contracts

Bid Items

Daily Reports

Pay Estimates

CONTRACTS

CMIS

Contracts

Bid Items

Daily Reports

Pay Estimates

COLUMBUS PMIS

[Change Password](#) | [Logout \(MRotundo\)](#)

[DASHBOARD](#) [SYSTEM](#) [CIP](#) [CONSTRUCTION](#) [REPORTS](#) [DIGITAL LIBRARY](#) [CIP VIEWER \(MAP\)](#) [ADMIN](#)

Parent Project # 690533-100001 - 2019 (CW-103) - (PAWP Well Pump Replacement - CW-103)

[Back to Project List](#) [Save](#) [Cancel](#) [Edit Security](#) [Edit Contract Permissions](#)

Contract Admin

General
Attributes
Schedule
Budget
Funding
Legislation
Contracts
Invoices
Status Update
Diary
Tasks
Documents
Contract Admin

Show in CMIS

CIP #

690533-100001

Contract #

2019 (CW-103)

EL #

DR Number

Contractor

KOKOSING MATERIALS, INC.

CPM Required?

CONTRACTS

CMIS

Contracts

Bid Items

Daily Reports

Pay Estimates

| | | | |
|---------------|------------------------------|---------------|----------------|
| Show in CMIS | <input type="checkbox"/> | Area Engineer | |
| CFP # | 00001-00001 | Consultant | |
| Contract # | 1000 | Developer | |
| EL # | 1000 | Design PM | David J. Moore |
| DR Number | 1000 | Designer | ARCADIS US Inc |
| Contractor | Acadia (Metcalf Parke, Inc.) | | |
| CPM Required? | <input type="checkbox"/> | | |
| Current CPM? | <input type="checkbox"/> | | |

Construction Costs

| | |
|--------------------------|----------------|
| Est Inspection Cost | \$10,000.00 |
| Est Construction Cost | \$1,000,000.00 |
| Est Project Cost | \$1,010,000.00 |
| Base Bid | \$1,000,000.00 |
| Contingency | \$25,000.00 |
| Contract Modification(s) | \$100.00 |
| Total Contract Amount | \$1,025,000.00 |
| Cost To Date | \$0.00 |
| % Complete | 0.00% |
| Est To Date | \$0.00 |

Inspection

| | |
|-----------------------------|-------------|
| Inspection Fees (Projected) | \$10,000.00 |
| % Inspection Remaining | 75.00% |

Summary of Change Orders

| | |
|-----------------------|----------------|
| Pending | \$0.00 |
| Approved | \$0.000.00 |
| Total Contract Amount | \$1,025,000.00 |
| Expended Amounts | \$1,025,000.00 |
| Modification 1 | \$0.00 |
| Modification 2 | \$0.00 |
| Modification 3 | \$0.00 |

Schedule and Status

| | |
|--------------------|------------|
| Project Duration | 0 Days |
| Elapsed Time | 0 Days |
| % Complete | 0.00% |
| Last Date of Work | 2013/01/14 |
| First Date of Work | |

Key Event Dates

| | |
|------------------------------|--|
| Final Quantities Agreed In | |
| Final Quantities Sent | |
| Final Modification Requested | |
| Prevailing Wage Affidavit | |
| Prime Contractor Affidavit | |
| Subcontractor Affidavit | |
| Final Estimate Sent | |

BID ITEMS

CMIS

Contracts

Bid Items

Daily Reports

Pay Estimates

Columbus PMS Test Change Password Logout (mrobinso)

DASHBOARD SYSTEM CIP CONSTRUCTION REPORTS DIGITAL LIBRARY SEARCH ADMIN

Pay Applications 14-500 - 929292-929292 - Ferris Road Waterline - Bid Items

Example Templates:

Contract Settings Retainage Schedule CMSC 109

| Ref # | Item # | Description | Unit Type | Unit Price | Bid Quantity | Total Cost | Revised Quantity | Revised Price | Revised Total Cost | % DPU | % DPS | CPA | Project Splits |
|--------|--------|---|-----------|-------------|--------------|--------------|------------------|---------------|--------------------|-------|-------|-----|----------------|
| 000001 | 254 | PAVEMENT PLANING, ASPHALT CONCRETE | SY | \$2.95 | 14,296.000 | \$42,173.20 | 0.000 | \$0.00 | \$0.00 | 25% | 50% | | |
| 000002 | 259 | DRIVEWAY PAVEMENT REPLACEMENT, TYPE IIIA | CY | \$214.00 | 12.000 | \$2,568.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000003 | 259 | DRIVEWAY PAVEMENT REPLACEMENT, TYPE IIIB | CY | \$391.00 | 8.000 | \$3,128.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000004 | 259 | DRIVEWAY PAVEMENT REPLACEMENT, TYPE IIIC | CY | \$50.00 | 70.000 | \$3,500.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000006 | 423 | CRACK SEALING, TYPE I | SY | \$24.00 | 178.000 | \$4,272.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000007 | 448 | ASPHALT CONCRETE SURFACE COURSE (MEDIUM TRAFFIC), PG64-22 | CY | \$228.00 | 595.000 | \$135,660.00 | 0.000 | \$0.00 | \$0.00 | 50% | 50% | | |
| 000008 | 606 | GUARDRAIL REBUILT, TYPE 5 | LF | \$72.00 | 40.000 | \$2,880.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000009 | 608 | CONCRETE WALK (4") | SF | \$7.10 | 1,750.000 | \$12,425.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000010 | 609 | CURB, STRAIGHT 18" | LF | \$28.00 | 24.000 | \$672.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000011 | 609 | COMBINATION CURB AND GUTTER, TYPE STANDARD | LF | \$28.00 | 21.000 | \$588.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000012 | 614 | MAINTAINING TRAFFIC | LS | \$69,267.00 | 1.000 | \$69,267.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000013 | 615 | TEMPORARY PAVEMENT | SY | \$30.00 | 3,294.000 | \$97,620.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000014 | 632 | DETECTOR LOOP | EA | \$1,977.00 | 1.000 | \$1,977.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000015 | 659 | SEEDING AND MULCHING | SY | \$8.00 | 999.000 | \$7,992.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000016 | 801 | 6 INCH WATER PIPE & FITTINGS | LF | \$84.00 | 3,106.000 | \$260,904.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000017 | 801 | 8 INCH WATER PIPE & FITTINGS | LF | \$96.00 | 6,696.000 | \$642,816.00 | 0.000 | \$0.00 | \$0.00 | 50% | 0% | | |
| 000018 | 801 | CONCRETE BLOCKING, CLASS C, INCREASE OR DECREASE | CY | \$122.00 | 40.000 | \$4,880.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000019 | 801 | DUCTILE IRON FITTINGS, INCREASE OR DECREASE | LB | \$4.15 | 1,000.000 | \$4,150.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000020 | 802 | 6 INCH VALVE & APPURTENANCES | EA | \$1,049.00 | 26.000 | \$27,274.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000021 | 802 | 8 INCH VALVE & APPURTENANCES | EA | \$1,330.00 | 7.000 | \$9,310.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000022 | 805 | 3/4 INCH WATER SERVICE TAP, TRANSFERRED LONG | EA | \$1,418.00 | 138.000 | \$195,684.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000023 | 805 | 3/4 INCH WATER SERVICE TAP, TRANSFERRED SHORT | EA | \$1,074.00 | 128.000 | \$137,472.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000024 | 805 | 1 INCH WATER SERVICE TAP, TRANSFERRED LONG | EA | \$1,504.00 | 1.000 | \$1,504.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000025 | 805 | 2 INCH WATER SERVICE TAP, TRANSFERRED SHORT | EA | \$1,732.00 | 1.000 | \$1,732.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000026 | 805 | CURB BOX | EA | \$216.00 | 224.000 | \$48,384.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000027 | 807 | C.I. FERULLE VALVE BOX AND COVER | EA | \$152.00 | 41.000 | \$6,232.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |
| 000028 | 809 | FIRE HYDRANT | EA | \$2,010.00 | 22.000 | \$44,220.00 | 0.000 | \$0.00 | \$0.00 | 100% | 0% | | |

DAILY REPORTS

CMIS

Contracts

Bid Items

Daily Reports

Pay Estimates

Columbus PMIS Test

[Change Password](#) [Logout \(return\)](#)

[DASHBOARD](#) [SYSTEM](#) [CIP](#) [CONSTRUCTION](#) [REPORTS](#) [DIGITAL LIBRARY](#) [SEARCH](#) [ADMIN](#)

Daily Reports List [Daily Report: DA007](#)

[Back](#) [Save](#) [Save & Close](#) [Print to PDF](#)

Report Details

Report Date: 01/12/2015
Project #: 888999-001091 - TEST CONTRACT
Report Number: DA007
Report Period: Daily
Last Updated: Jan 12 2015 9:02AM
 No Work Performed

Inspector Information

Inspector: Default Administrator
Start Time: 7:00 AM
End Time: 3:30 PM
Total Hours: 0
 Reviewed with Contractor
Contractor Name:

Approval Status

Status: Approved
By:
Date: 01/12/2015

Contractor Times

Arrival Time:
Departure Time:

[Summary of Work](#) [Pay Items](#) [Activities](#) [Weather](#) [Equipment](#) [Field Force](#) [Values](#) [Materials](#) [Documents](#) [Grade Checks](#) [Other Info](#)

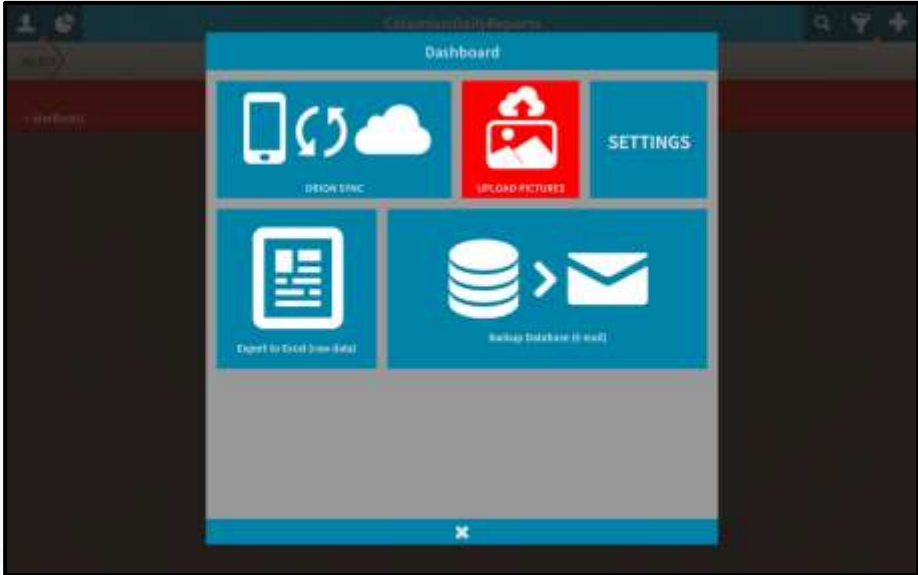
[Add](#)

| Ref. No. | Item No. | Description | CPA | Location | Comments | Bid Quantity | Revised Quantity | Current Quantity | Stored Materials | Bubble No. | Action |
|----------|----------|-------------|-----|----------|----------|--------------|------------------|------------------|------------------|------------|--------|
| 1798 | 14880 | | | | | 0.000 | 0.000 | 1.000 | 0.000 | | |
| 1799 | 14881 | | | | | 0.000 | 0.000 | 2.000 | 0.000 | | |

Web Version

DAILY REPORTS

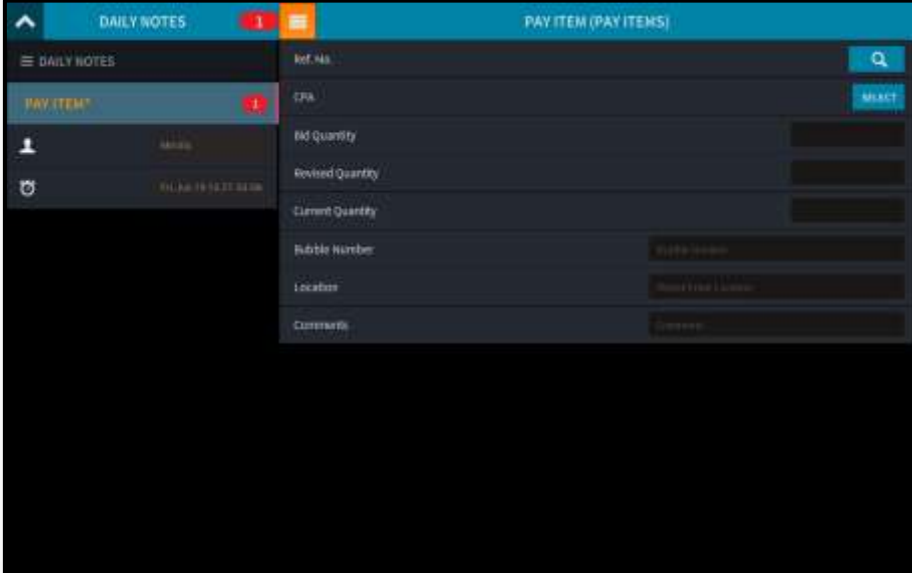
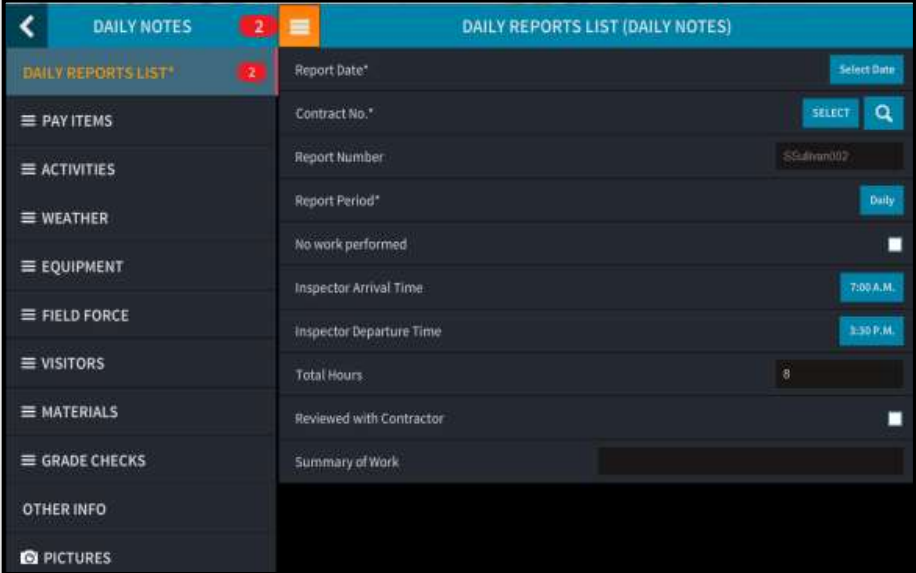
CMIS Contracts Bid Items **Daily Reports** Pay Estimates



Mobile Version



DAILY REPORTS



Mobile Version



PAY ESTIMATES

CMIS

Contracts

Bid Items

Daily Reports

Pay Estimates

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
Division of Design and Construction
CIP NO: 670025-100033

AUDITOR/CONTRACT NO: ELD10218 EFFECTIVE DATE: 8/5/2014
LETTING DATE: ACCEPTANCE DATE:
COMPLETION DATE: 3/31/2015 ELAPSED TIME (Days): 195
ESTIMATE NUMBER: 002 OR NUMBER:
ESTIMATE DATE: 2/16/2015
LAST ESTIMATE DATE: 1/15/2015
PERCENT COMPLETED: 20.01%

TITLE: Circuit 7217 Conversion
CONTRACTOR: J. Randi Electric, Inc.
1093 Dover Parkway
Mt. Pleasant MI 48858

| | |
|-----------------------------|--------------|
| ORIGINAL CONTRACT SUM | \$702,022.14 |
| TOTAL MODIFICATIONS | \$0.00 |
| CONTRACT SUM TO DATE | \$702,022.14 |
| WORK COMPLETED TO DATE | \$137,041.00 |
| Less % Retention | \$13,794.10 |
| SUB TOTAL | \$123,246.90 |
| DELIVERED MATERIALS TO DATE | \$0.00 |
| SUB TOTAL | \$123,246.90 |
| LESS PREVIOUS PAYMENTS | \$30,894.90 |
| CURRENT PAYMENT DUE | \$92,351.94 |

I HEREBY CERTIFY THAT THE ABOVE QUANTITIES ARE CORRECT AND THAT THE WORK HAS BEEN DONE ACCORDING TO THE CONTRACT

WITNESSED BY _____
CHECKED BY _____ CONSTRUCTION AND ENGINEER DATE _____

Roadway Improvements - S-E-A Building

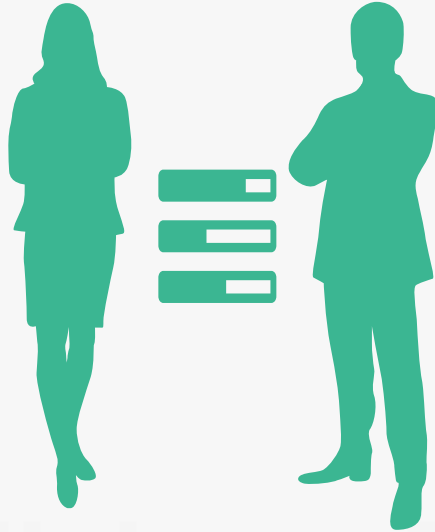
Cost to Date

Report Dates between 12/8/2014 and 6/26/2015

| Ref No | Item No | Description | Plan Qty/UM | Unit Price | Total Price | Daily Qty To Date | Cost To Date |
|--------|---------|--|-------------|-------------|--------------|-------------------|--------------|
| 000001 | 201 | CLEARING AND GRUBBING | 1.000 LS | \$13,003.45 | \$13,003.45 | 0.50 | \$5,751.75 |
| 000021 | 814 | MAINTENANCE OF TRAFFIC | 1.000 LS | \$8,102.07 | \$8,102.07 | 0.20 | \$1,620.41 |
| 000022 | 823 | CONSTRUCTION LAYOUT STAKES | 1.000 LS | \$27,009.00 | \$27,009.00 | 0.20 | \$5,001.90 |
| 000023 | 824 | MOBILIZATION | 1.000 LS | \$2,824.92 | \$2,824.92 | 0.90 | \$2,542.43 |
| 000029 | 604 | 12" STORM SEWER W/TYPE I BEDDING | 564.000 LF | \$30.00 | \$17,847.04 | 538.50 | \$16,400.00 |
| 000030 | 604 | 12" STORM SEWER W/CONCRETE ENCASMENT | 158.000 LF | \$92.23 | \$9,832.34 | 200.00 | \$12,448.00 |
| 000031 | 604 | 15" STORM SEWER W/TYPE I BEDDING | 475.000 LF | \$30.79 | \$17,000.25 | 444.00 | \$15,890.76 |
| 000032 | 604 | 18" STORM SEWER W/TYPE I BEDDING | 60.000 LF | \$39.40 | \$2,364.00 | 60.00 | \$2,364.00 |
| 000033 | 604 | 18" STORM SEWER W/WATER TIGHT JOINTS | 127.000 LF | \$43.34 | \$5,504.18 | 127.00 | \$5,504.18 |
| 000034 | 604 | 24" STORM SEWER W/TYPE I BEDDING | 668.000 LF | \$52.73 | \$34,990.68 | 658.00 | \$34,990.68 |
| 000035 | 604 | 36" STORM SEWER W/WATER TIGHT JOINTS | 200.000 LF | \$86.05 | \$17,210.00 | 200.00 | \$17,210.00 |
| 000036 | 604 | 36" STORM SEWER W/TYPE I BEDDING | 30.000 LF | \$85.12 | \$2,553.60 | 30.00 | \$2,653.60 |
| 000037 | 604 | CURB INLET | 25.000 EA | \$1,170.75 | \$29,417.50 | 20.00 | \$23,534.00 |
| 000038 | 604 | ODOT 2-4 CATCH BASIN FOR OUTLET STRUCTURES | 2.000 EA | \$3,051.28 | \$6,102.52 | 2.00 | \$6,102.52 |
| 000039 | 604 | STORM MANHOLE - TYPE "C" | 11.000 EA | \$1,009.30 | \$10,399.33 | 10.00 | \$10,099.30 |
| 000041 | 604 | HEADWALL 12" PIPE (AA-S165) | 3.000 EA | \$1,193.58 | \$3,580.74 | 1.00 | \$1,193.58 |
| 000042 | 604 | HEADWALL 10" PIPE (AA-S165) | 1.000 EA | \$1,193.58 | \$1,193.58 | 1.00 | \$1,193.58 |
| 000043 | 604 | HEADWALL 18" PIPE (AA-S165) | 2.000 EA | \$1,400.00 | \$2,800.00 | 2.00 | \$2,800.00 |
| 000044 | 604 | HEADWALL 30" PIPE (AA-S165) | 1.000 EA | \$1,762.89 | \$1,762.89 | 1.00 | \$1,762.89 |
| 000057 | 801 | SILT FENCING & TREE PROTECTION FENCE | 9571.000 LF | \$1.08 | \$10,336.68 | 8400.00 | \$9,072.00 |
| 000058 | SPEC | INLET PROTECTION - GRASS | 2.000 EA | \$54.02 | \$108.04 | 0.00 | \$0.00 |
| 000059 | 915 | Prop. Sanitary/Cleanout (AA-S161) | 3.000 EA | \$534.30 | \$1,602.90 | 0.00 | \$0.00 |
| 000059 | 918 | 6" Diameter Pipe, Sanitary/House Connection Service | 274.000 LF | \$32.34 | \$8,891.16 | 98.00 | \$3,189.32 |
| 000059 | 918 | 8" Diameter Pipe, Sanitary/House Connection Service | 333.000 LF | \$32.34 | \$10,769.22 | 352.00 | \$11,383.98 |
| 000094 | 901 | 10" Sanitary Sewer Pipe with Type 1 Bedding & Item 912 Composite Granular Backfill | 100.000 LF | \$52.48 | \$5,248.00 | 100.00 | \$5,248.00 |
| 000095 | 901 | 10" Sanitary Sewer Pipe with Type 1 Bedding | 2578.000 LF | \$52.48 | \$135,293.44 | 2,578.50 | \$135,214.72 |
| 000092 | 604 | Type C Precast Manhole | 7.000 EA | \$2,300.39 | \$16,102.73 | 7.00 | \$16,102.73 |
| | | | | | | | \$300,926.80 |

PMIS/CMIS GROWING PAINS

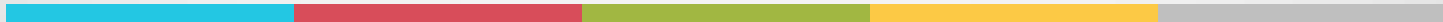
Old dogs and new tricks



Consensus on rules and processes

Coordinating financial data

Improving usability



PMIS BENEFITS REALIZED



Single Record from Concept to Closeout

- Contract, Invoice, and Schedule History

Customizable reports

- Bond Sale and capital planning
- Upcoming RFP and bids
- PM usage consistency

Mapping of Projects

- Conflict detection
- Public transparency

Independence and Efficiency

- Staff can acquire a variety of project details 24/7

Contractor Selection

- Availability (quantity of jobs in process)
- Consistency (adhering to schedule and budget)

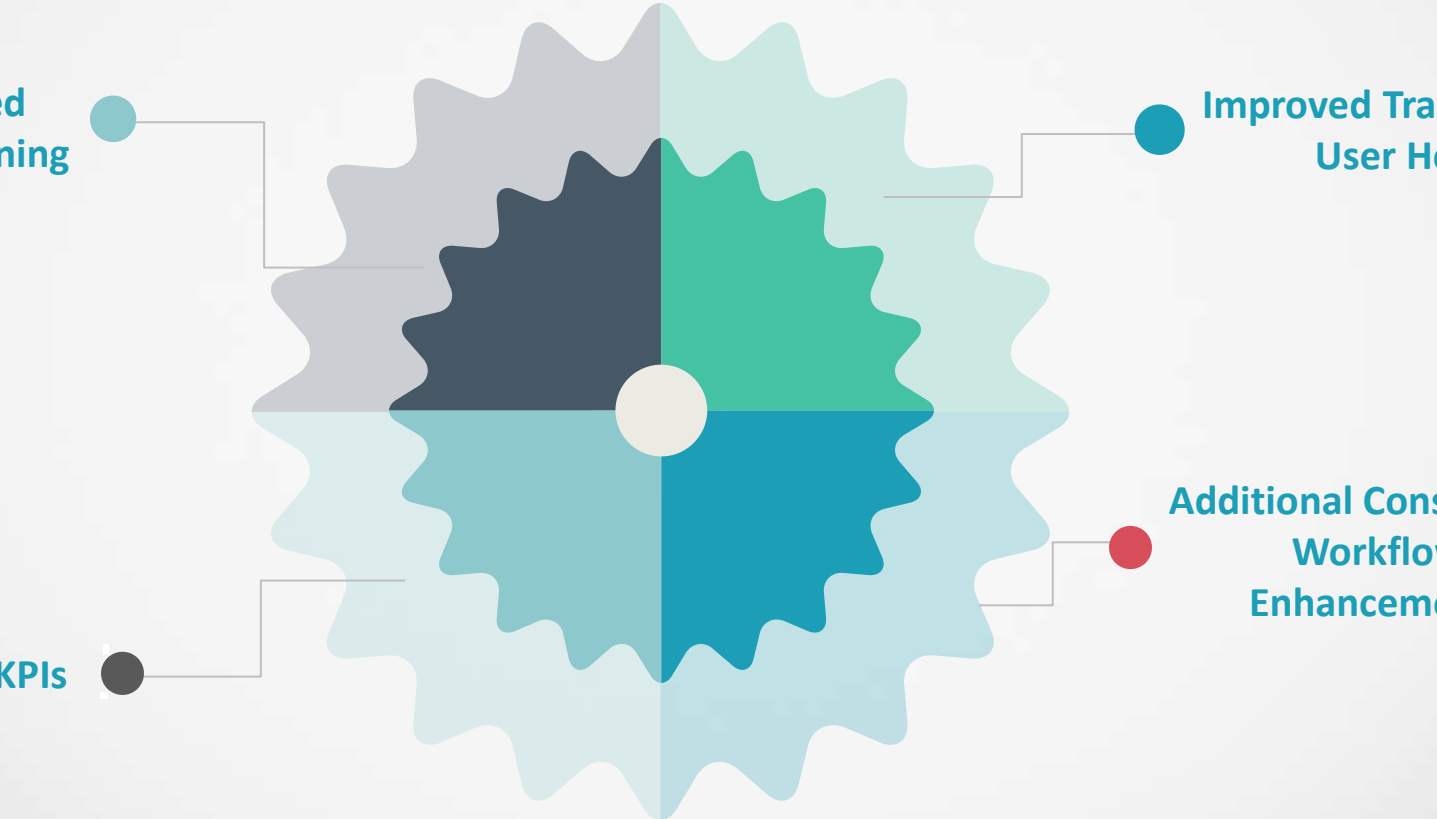
FUTURE ENHANCEMENTS

Enhanced
Fiscal Planning

Improved Training and
User Help

Expanded KPIs

Additional Construction
Workflow
Enhancements



KEY PERFORMANCE INDICATORS

Time to Award Construction Projects

Schedule Performance

Department: Public Utilities

Start Date: 6/18/2014 12:00:00 AM

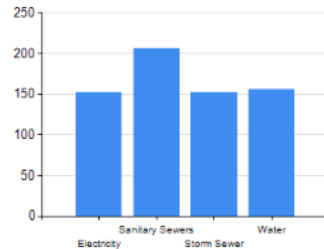
End Date: 6/18/2015 12:00:00 AM

Average Award Time

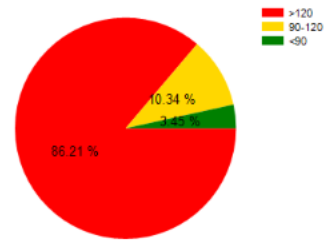
165 Days

Generated: 6/18/2015 9:04:24 AM

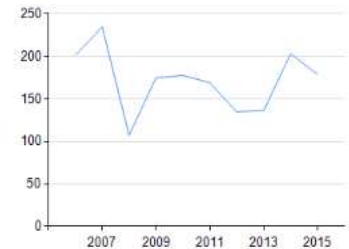
Average Award Time by Division



Award Time Breakdown



Average Award Time Per Year



Page 1 of 3

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JUMcKinney@columbus.gov



Michael Rotunno
Michael.Rotunno@arcadis-us.com

Questions?