



CINCINNATI  
**STREETCAR**™

## MONTHLY REPORT

SEPTEMBER-OCTOBER 2015

# REFERENCES

- For background information on the Cincinnati Streetcar, please go to <http://www.cincinnati-oh.gov/streetcar/>
- For previous months' reports, please go to <http://www.cincinnati-oh.gov/streetcar/documents-references/>
- For an archive of weekly progress updates, please go to <http://www.cincinnati-oh.gov/streetcar/news/>



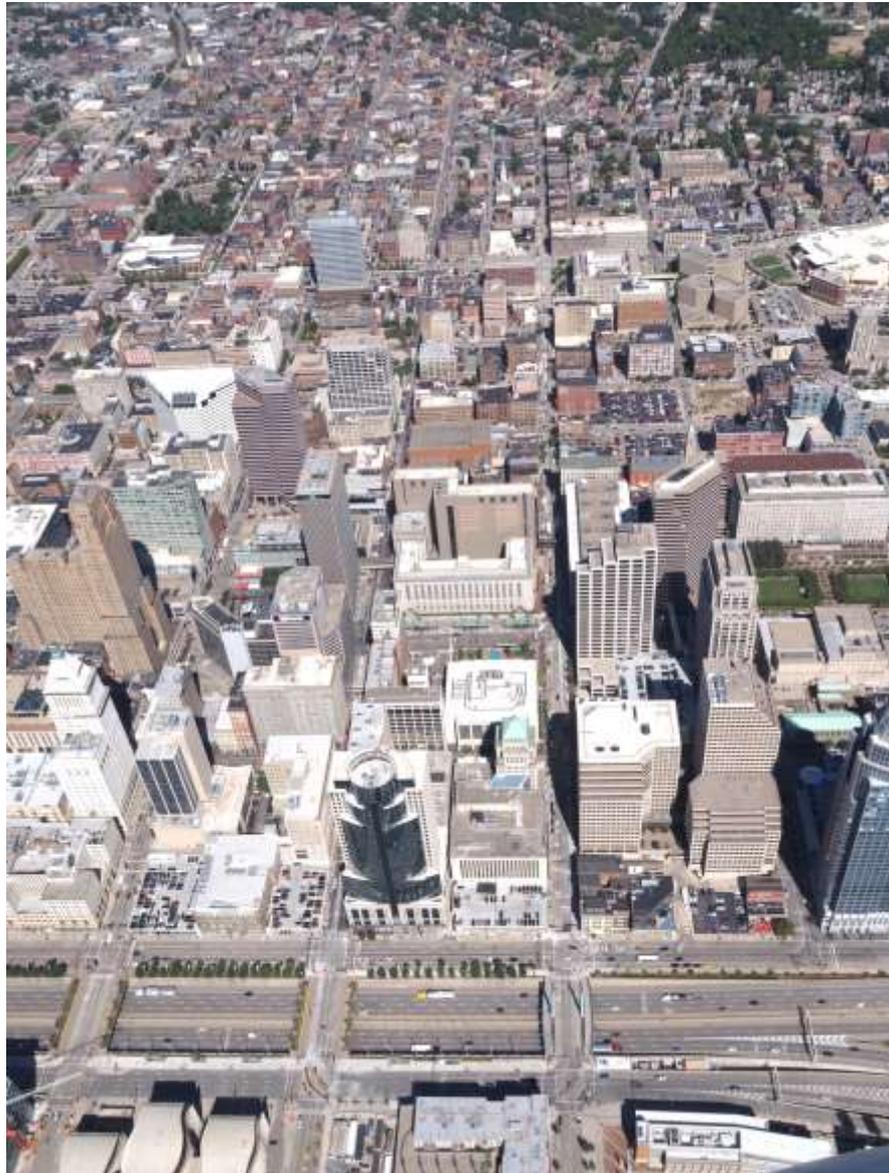
# TABLE OF CONTENTS

1. Progress Update Summary
2. Progress Details
  - 2.1. Civil Construction Schedule
  - 2.2. Trackwork and associated construction
  - 2.3. Maintenance and Operations Facility (MOF)
  - 2.4. Utilities
  - 2.5. Community Involvement
  - 2.6. MPD Billings for November
3. Vehicles
  - 3.1. Schedule
  - 3.2. Design and Production Activities
4. Budget and Expenditures
  - 4.1. Budget vs. Expenditures
  - 4.2. Major Contract Activity
  - 4.3. Federal Grant Activity
5. Job Site Safety
6. SORTA Activities, Including Safety and Security Certification
7. Inclusion/DBE Compliance
8. Federal Oversight Activities
9. Contingency Expenditure Appendix

# ACRONYMS

CFD	Cincinnati Fire Department
CPD	Cincinnati Police Department
CBD	Central Business District
DBE	Disadvantaged Business Enterprises
FAI	First Article Inspection
FLSSC	Fire Life Safety and Security Committee
FTA	Federal Transit Administration
MOF	Maintenance And Operations Facility
MPD	Messer, Prus, Delta Rail Joint Venture
OCS	Overhead Contact System
ODOT	Ohio Department of Transportation
OUPS	Ohio Utility Protection Service
PMOC	Project Management Oversight Consultant (FTA's)
SORTA	Southwest Ohio Regional Transit Authority
SSRC	Safety and Security Review Committee
TANK	Transit Authority of Northern Kentucky
TPSS	Traction Power Substation
TVM	Ticket Vending Machine
WTM	Wheel Truing Machine

# PROGRESS SUMMARY



The Central Business District and Over-The-Rhine linked to Riverfront with the streetcar loop

# PROGRESS SUMMARY



Tying the top mat of reinforcing steel at Second and Main Sts. for the project's last track work

# PROGRESS SUMMARY



The arrival at the MOF of Unit #1, Streetcar 1175, from the CAF factory in Elmira, NY 7

# PROGRESS SUMMARY

- Civil construction major accomplishment in September and October included MPD completing the last trackwork on the project, the curve at Second and Main Sts.
- Work on OCS and Traffic Signal pole foundations for the entire project were completed in September.
- MPD completed the OCS Wire pulls for the entire project in October.
- TPSS, OCS testing continued in OTR Loop and began in the CBD.
- Vehicle production continued at CAF Elmira, NY plant.
- The City received Unit #1 at the MOF on October 30
- TRANSDEV, SORTA/METRO's operations contractor occupied the MOF in September
- At the MOF building minor testing, punchlist and closeout activities continued all through September and October including installation of the Wheel Truing Machine.



## 2.1 CONSTRUCTION CONTRACT SCHEDULE

- Maintenance and Operations Facility (MOF) and test track completion - March 21, 2015 (Achieved)
- Over-The-Rhine Loop Completion - July 19, 2015 (Achieved)
- Completion of all work - April 4, 2016 (On schedule)
- Revenue Service start - September 15, 2016 (On schedule - unchanged from original construction contract with MPD)
- Summary schedules follows:



# SEPTEMBER 2015 SCHEDULE SUMMARY

ID	Description	Original Duration	Start	Finish	Area	2015			2016								
						Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Elm/ 12th to Henry</b>																	
1	MOT/Road Removal/Trackwork Start	1	09/16/13A	09/16/13A	Elm/ 12th to Henry												
2	Track/Road Complete	1	01/09/14A	01/09/14A	Elm/ 12th to Henry												
<b>Race/ Elder to 12th</b>																	
3	MOT/Road Removal/Trackwork Start	1	12/26/13A	12/26/13A	Race/ Elder to 12th												
4	Track/Road Complete	1	04/01/14A	04/01/14A	Race/ Elder to 12th												
<b>Central/ Race to Main</b>																	
5	MOT/Road Removal/Trackwork Start	1	03/24/14A	03/24/14A	Central/ Race to Main												
6	Track/Road Complete	1	06/18/14A	06/18/14A	Central/ Race to Main												
<b>12th/ Main to Elm</b>																	
7	MOT/Road Removal/Trackwork Start	1	04/21/14A	04/21/14A	12th/ Main to Elm												
8	Track/Road Complete	1	07/17/14A	07/17/14A	12th/ Main to Elm												
<b>OTR Turns and Diamond</b>																	
11	MOT/Road Removal/Trackwork Start	1	06/30/14A	06/30/14A	OTR Turns and Diamond												
12	Track/Road Complete	1	08/13/14A	08/13/14A	OTR Turns and Diamond												
<b>MOF Area Turn Outs</b>																	
9	MOT/Road Removal/Trackwork Start	1	08/28/14A	08/28/14A	MOF Area Turn Outs												
10	Track/Road Complete	1	12/31/14A	12/31/14A	MOF Area Turn Outs												
<b>Walnut/Central to 2nd</b>																	
13	MOT/Road Removal/Trackwork Start	1	08/11/14A	08/11/14A	Walnut/Central to 2nd												
14	Track/Road Complete	1	05/18/15A	05/18/15A	Walnut/Central to 2nd												
<b>2nd Street and Bridges</b>																	
15	MOT/Road Removal/Trackwork Start	1	09/02/14A	09/02/14A	2nd Street and Bridges												
16	Track/Road Complete	1	11/05/15	11/05/15	2nd Street and Bridges												
<b>Main/2nd to 12th</b>																	
17	MOT/Road Removal/Trackwork Start	1	03/30/15A	05/01/15A	Main/2nd to 12th												
18	Track/Road Complete	1	09/24/15A	09/24/15A	Main/2nd to 12th												
<b>OTR</b>																	
20	3000' Test Track	0		03/20/15A	OTR												
25	MOF Complete	0		03/20/15A	OTR												
30	Power and Stations - OTR	0		07/17/15A	OTR												
<b>CBD</b>																	
50	Power, Stations, Paving, and Closeout - CBD	0		04/04/16	CBD												
60	Pay Service Available	0		09/30/16	CBD												

Start Date: 01/01/13  
 Finish Date: 09/30/16  
 Data Date: 10/01/15  
 Run Date: 10/20/15

Cincinnati Streetcar  
 Contract #121C009060  
 October 1, 2015 - Project Schedule



# OCTOBER 2015 SCHEDULE SUMMARY

ID	Description	Original Duration	Start	Finish	Area	2015		2016														
						Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep						
<b>Elm/ 12th to Henry</b>																						
1	MOT/Road Removal/Trackwork Start	1	09/16/13A	09/16/13A	Elm/ 12th to Henry																	
2	Track/Road Complete	1	01/09/14A	01/09/14A	Elm/ 12th to Henry																	
<b>Race/ Elder to 12th</b>																						
3	MOT/Road Removal/Trackwork Start	1	12/26/13A	12/26/13A	Race/ Elder to 12th																	
4	Track/Road Complete	1	04/01/14A	04/01/14A	Race/ Elder to 12th																	
<b>Central/ Race to Main</b>																						
5	MOT/Road Removal/Trackwork Start	1	03/24/14A	03/24/14A	Central/ Race to Main																	
6	Track/Road Complete	1	06/18/14A	06/18/14A	Central/ Race to Main																	
<b>12th/ Main to Elm</b>																						
7	MOT/Road Removal/Trackwork Start	1	04/21/14A	04/21/14A	12th/ Main to Elm																	
8	Track/Road Complete	1	07/17/14A	07/17/14A	12th/ Main to Elm																	
<b>OTR Turns and Diamond</b>																						
11	MOT/Road Removal/Trackwork Start	1	06/30/14A	06/30/14A	OTR Turns and Diamond																	
12	Track/Road Complete	1	08/13/14A	08/13/14A	OTR Turns and Diamond																	
<b>MOF Area Turn Outs</b>																						
9	MOT/Road Removal/Trackwork Start	1	08/28/14A	08/28/14A	MOF Area Turn Outs																	
10	Track/Road Complete	1	12/31/14A	12/31/14A	MOF Area Turn Outs																	
<b>Walnut/Central to 2nd</b>																						
13	MOT/Road Removal/Trackwork Start	1	08/11/14A	08/11/14A	Walnut/Central to 2nd																	
14	Track/Road Complete	1	05/18/15A	05/18/15A	Walnut/Central to 2nd																	
<b>2nd Street and Bridges</b>																						
15	MOT/Road Removal/Trackwork Start	1	09/02/14A	09/02/14A	2nd Street and Bridges																	
16	Track/Road Complete	1	11/05/15	11/05/15	2nd Street and Bridges																	
<b>Main/2nd to 12th</b>																						
17	MOT/Road Removal/Trackwork Start	1	03/30/15A	05/01/15A	Main/2nd to 12th																	
18	Track/Road Complete	1	09/24/15A	09/24/15A	Main/2nd to 12th																	
<b>OTR</b>																						
20	3000' Test Track	0		03/20/15A	OTR																	
25	MOF Complete	0		03/20/15A	OTR																	
30	Power and Stations - OTR	0		07/17/15A	OTR																	
<b>CBD</b>																						
50	Power, Stations, Paving, and Closeout - CBD	0		04/04/16	CBD																	
60	Pay Service Available	0		09/30/16	CBD																	

Start Date: 01/01/13  
 Finish Date: 09/30/16  
 Data Date: 11/01/15  
 Run Date: 11/11/15

Cincinnati Streetcar  
 Contract #121C009060  
 November 1, 2015 - Project Schedule





## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION

- By the end of October, all project track work and station stop work had been completed.
- Concrete sidewalk, curb and handicapped ramp restoration continued throughout the project in preparation for asphalt paving throughout September and into October.
- Sidewalk pavers were replaced on Walnut from Fourth to Fifth Sts. and at Central Parkway and on Main from Seventh to E. Court Sts.
- Minor punch list work is expected to continue through the contractual end of the work in April 2016.



## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION

- In September, MPD completed concrete work at Stops #2, 3 & 4.
  - Specialist subcontractors installed station stop shelters at Stops #2, 3, 4 & 5 in September and railings at Stop #5 also.
  - Bases for the TVM's were constructed at Stops #1 & 17.
- In October, shelter installation continued at Stops #2, 3, 4, 5 & 5A.
  - Railings were installed at Stops #2 & 4.
  - Landscaping around the shelter stops was installed at most locations.



## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



The final track weld took place October 16, 2015 on Second St. at the Banks Project near Main St.

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



The project's final trackslab concrete placement at Second and Main Sts. On October 25, 2015

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Restoring concrete pavement and overlay on Second St. near Main

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Tack coat being sprayed prior to asphalt paving on Main St. between Fourth and Fifth Sts.

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Asphalt paving at the intersection of Ninth and Main Sts.

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Streetcar only pavement marking on Second St. between Walnut and main Sts.



Temporary pavement marking on Main St at Fifth St.

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION

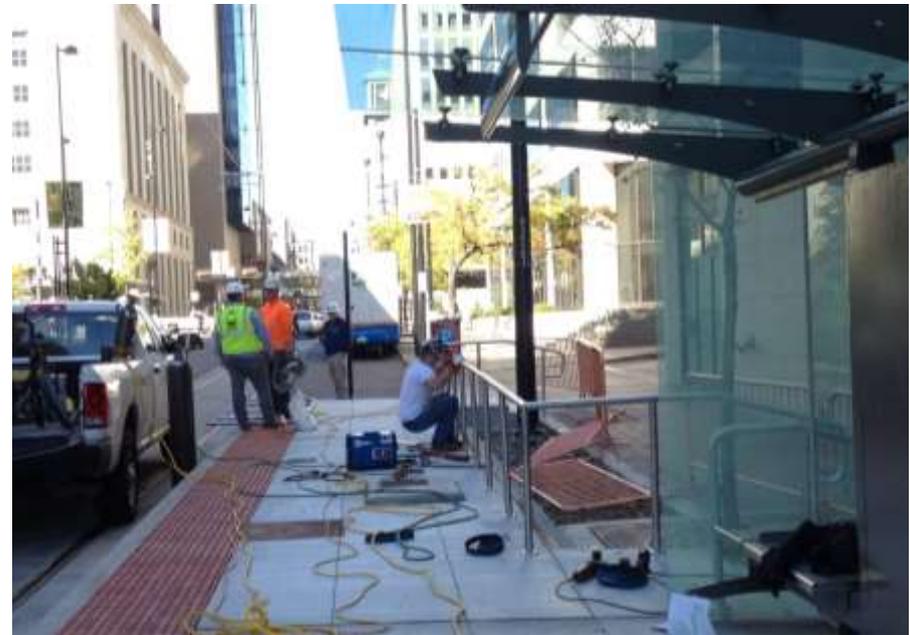


Stop #4 construction progress

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION

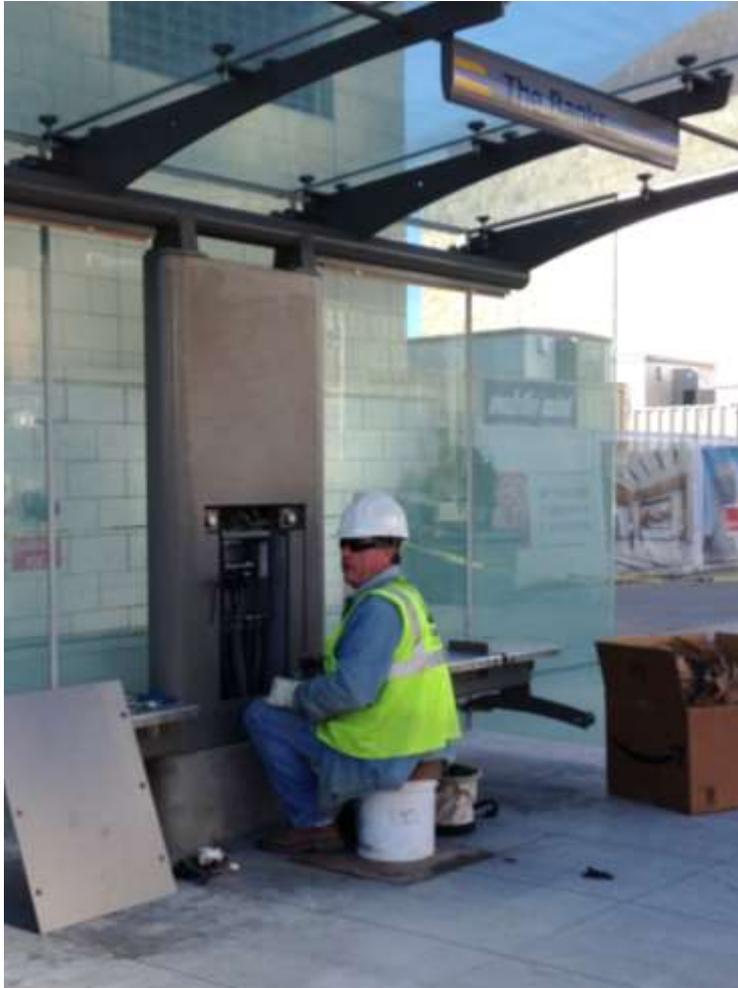


Platform work at Stop #2



Railing installation at Stop #2

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Completing wiring at Stop #1

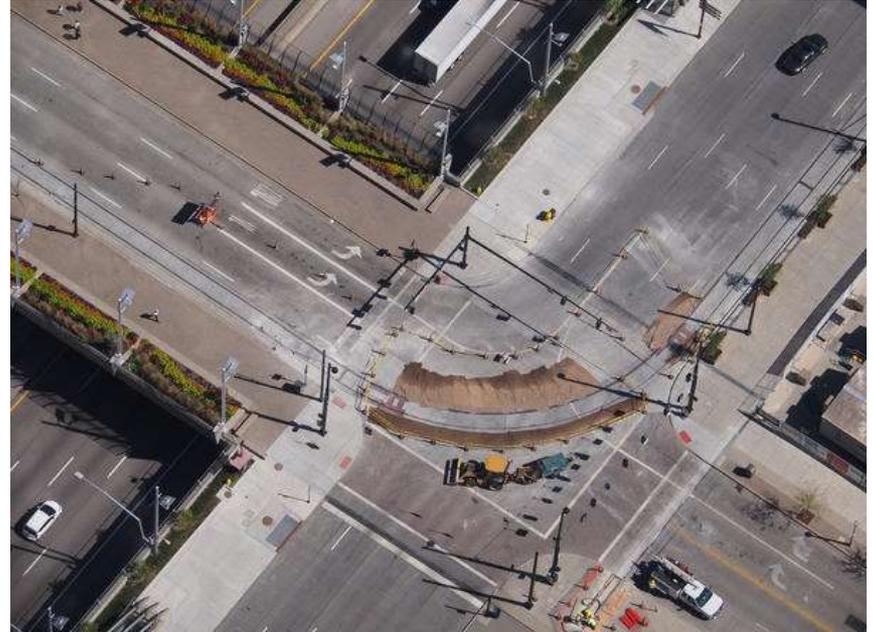


Landscape installation at Stop #15

## 2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Paver restoration in the sidewalk at Main and Fourth Sts.



Concrete transitional overlay at Walnut and Second Sts.

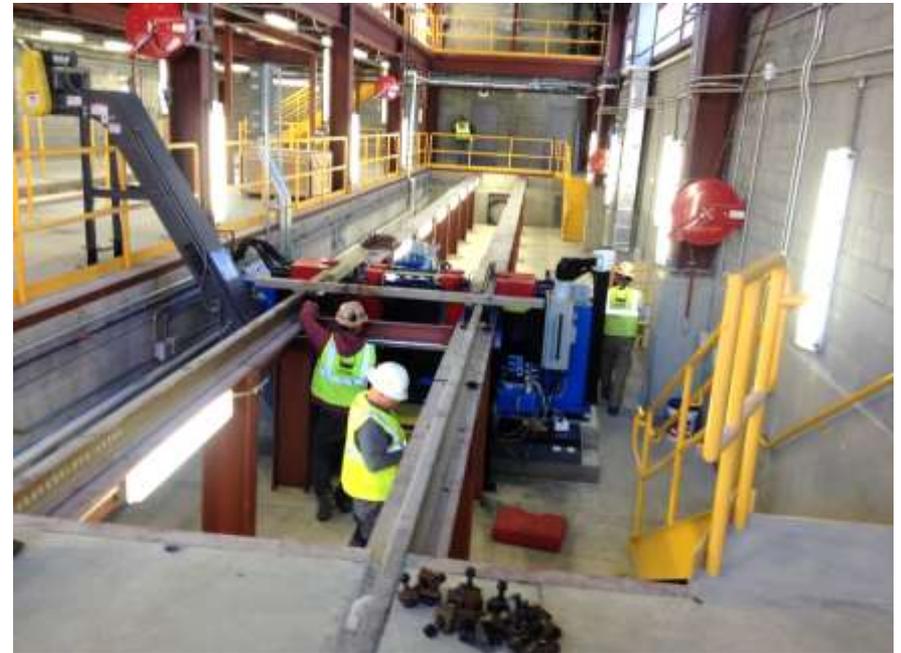
## 2.3 MAINTENANCE & OPERATIONS FACILITY



After delivery from Elmira, NY, Streetcar #1175 safely moved into to MOF and hooked up to shop power

## 2.3 MAINTENANCE & OPERATIONS FACILITY

- Equipment testing, punchlist and other closeout activities continued.
- The Wheel Truing Machine was installed in the wide maintenance pit.
- Work took place on the MOF OCS wire system.



Installation of the Wheel Truing Machine

## 2.4 UTILITY WORK

Utility work, including street and sidewalk is wrapping up:

- Duke Electric 99% complete
- Duke Gas 99% complete
- Cincinnati Bell 99% complete
- Water 99% complete
- Level 3 100% complete
- Chilled Water 100% complete
- Time Warner Cable 99% complete
- MSD (Sewer) 95% complete



## 2.4.1 CONTRACT UTILITY WORK

- Traffic signal work took place on Main at Second, Fourth, Seventh, Ninth Sts. and at Central Parkway.
- Traffic signal work continued on Walnut St., third to Sixth Sts.
- OCS wire brackets, span wires and arms were installed on Main St., Second St. to Central Parkway.
- Project OCS wire installation was completed. Testing and adjustment will continue for at least another month in response to the integrated testing.
- Testing of TPSS #2 and #3 took place.
- The OTR loop was checked with the Pantograph Test Cart prior to vehicle arrival.
- Project electricians worked with Duke Energy begin work to energize Stops #1, #3 and #5.



## 2.4.1 CONTRACT UTILITY WORK



Installing a new traffic signal boom at Third and Main Sts.



Traffic signal installation at Main and Fifth Sts..

## 2.4.1 CONTRACT UTILITY WORK



Installing the OCS wire in the MOF over the wide pit



Newly installed the OCS wire with pole identification and safety signs

## 2.4.2 THIRD PARTY UTILITY WORK

- Duke Energy has continued sidewalk restoration and cable pulling in their new systems.
- Time-Warner continued their cleanup of their system in Over-the-Rhine
- Cincinnati Bell continued manhole adjustments in conjunction with trackwork and pulling cable in their new systems.
- All other utility companies are virtually complete except for minor restoration or casting adjustments that will occur with the street repaving operation.



## 2.4.2 THIRD PARTY UTILITY WORK



Duke completing their electrical cabling work at Main and E. Court Sts.

## 2.5 COMMUNITY INVOLVEMENT



Briefing and taking comments at the Over-The-Thine Chamber of Commerce

## 2.5 COMMUNITY INVOLVEMENT

- The September Stakeholders Meeting was held on Wednesday 9/9/15 at Christ Church.
- The October Stakeholders Meeting was held on Wednesday 10/14/15 at the Aronoff Center.
- The Project Executive presented a project Case Study to the annual Meeting of the Ohio Chapter of the American Planning Association
- The Project Executive presented a project Case Study to the annual ODOT technical conference, OTEC, on successes related to the Fort Washington Way Reconstruction and Realignment, which included the Streetcar Project.
- Continuing established involvement strategy plan:
  - Monthly Construction Stakeholders Meeting
  - Email Weekly updates
  - Media alerts for all closures or other work disrupting pedestrian or vehicular traffic
  - Business, citizens get information about street and lane closures through a variety methods:
  - Personal visit by a member of the team
  - Attendance at DCI/Police Sector Meetings
  - Streetcar Hotline: (513) 352-3333



## 2.5 COMMUNITY INVOLVEMENT

- Continuing established involvement strategy (continued):
  - Streetcar website: [www.cincinnati-streetcar.com](http://www.cincinnati-streetcar.com) (all media and press releases)
  - Media Interviews
  - Bi-weekly coordination meetings with police, City Manager and communication personnel
  - Briefings at multiple community and business organizations as requested
  - Monthly Riverfront Joint Operations Task Force
  - Social media (twitter @Cincy\_Streetcar, City of Cincinnati Facebook page <https://www.facebook.com/CincinnatiStreetcarOFFICIAL> )



## 2.6 MPD BILLINGS - SEPTEMBER 2015 REPORT

Bid Form Section	Total	Prev. Incurred	August (Net ret)
Behind the Curb Work	\$1,456,894	\$67,727	\$29,558
Central Parkway Median	\$116,455	\$118,106	\$2,630
Civil, Roadway and Drainage	\$10,445,950	\$9,031,106	\$160,673
Communication System	\$1,228,959	\$214,561	\$0
Corrosion Control	\$354,682	\$308,573	\$10,640
Misc. Items	\$5,075,000	\$4,012,768	\$96,114
MOF Civil and Track	\$3,170,177	\$3,115,713	\$2,050
MOF	\$8,744,492	\$8,498,836	\$124,718
OCS Mainline	\$5,502,798	\$4,842,122	\$156,716
Signal System Streetcar	\$669,588	\$655,309	\$14,279
Streetcar Stop Shelters and Sitework	\$2,243,714	\$1,719,216	\$149,888
Trackwork on Grade	\$13,018,686	\$13,049,448	-\$44,516
Trackwork on Structures	\$2,950,663	\$2,856,543	-\$142,962
Traction Power	\$6,566,003	\$5,867,840	\$48,263
Traffic Signals and Lighting	\$4,793,179	\$4,174,400	-\$156,376
Water Main - Main Street	\$2,508,352	\$2,385,966	\$0
Water Main - Walnut Street	\$2,046,457	\$1,780,106	\$0
CO#1	\$492,933	\$173,979	\$136,694
CO#2	\$100,000	\$52,861	\$0
CO#3	\$359,745	\$476,250	\$7,000
CO#4	\$265,211	\$170,514	\$0
CO#5	\$637,108	\$637,108	\$0
CO#6	\$313,782	\$128,782	\$0
CO#7	\$67,630	\$62,984	\$0
CO#8	\$19,974	\$168,066	\$10,448
CO#10	\$135,272	\$0	\$0
<b>Totals:</b>	<b>\$73,283,705</b>	<b>\$64,568,889</b>	<b>\$605,816</b>

## 2.6 MPD BILLINGS - OCTOBER 2015 REPORT

Bid Form Section	Total	Prev. Incurred	Sept. (Net ret)
Behind the Curb Work	\$1,456,894	\$97,285	\$13,801
Central Parkway Median	\$116,455	\$120,736	\$0
Civil, Roadway and Drainage	\$10,445,950	\$9,191,779	\$226,815
Communication System	\$1,228,959	\$214,561	\$303,270
Corrosion Control	\$354,682	\$319,214	\$0
Misc. Items	\$5,075,000	\$4,108,882	\$72,341
MOF Civil and Track	\$3,170,177	\$3,117,763	\$0
MOF	\$8,744,492	\$8,623,554	\$0
OCS Mainline	\$5,502,798	\$4,998,838	\$237,226
Signal System Streetcar	\$669,588	\$669,588	\$0
Streetcar Stop Shelters and Sitework	\$2,243,714	\$1,869,104	\$171,239
Trackwork on Grade	\$13,018,686	\$13,004,932	\$0
Trackwork on Structures	\$2,950,663	\$2,713,582	\$1,675
Traction Power	\$6,566,003	\$5,916,103	\$61,522
Traffic Signals and Lighting	\$4,793,179	\$4,018,024	\$96,888
Water Main - Main Street	\$2,508,352	\$2,385,966	\$0
Water Main - Walnut Street	\$2,046,457	\$1,780,106	\$0
CO#1	\$492,933	\$310,674	\$0
CO#2	\$100,000	\$52,861	\$0
CO#3	\$359,745	\$483,250	\$3,500
CO#4	\$265,211	\$170,514	\$0
CO#5	\$637,108	\$637,108	\$0
CO#6	\$313,782	\$128,782	\$0
CO#7	\$67,630	\$62,984	\$0
CO#8	\$19,974	\$178,514	\$16,231
CO#9	\$176,923	\$0	\$169,246
CO#10	\$135,272	\$0	\$0
<b>Totals:</b>	<b>\$73,460,628</b>	<b>\$65,174,705</b>	<b>\$1,373,754</b>

## 3.0 VEHICLES

- FAI for first vehicle conducted Oct 13-15 in Elmira
- Cincinnati Streetcar #1175 authorized to ship on Oct 27, arrived in Cincinnati on October 30, 2015
- Vehicle production and testing continues in Elmira
  - Unit #2 - testing underway
  - Unit #3 - testing underway
  - Unit #4 - carshell assembly complete , installations in progress
  - Unit #5 - some carshell assembly complete, repair required for carshell damage
- Initial shipments of spare parts have arrived at MOF
- CAF Warranty and Testing personnel onsite in Cincinnati
  - Post delivery tests and inspections underway

# 3.1 VEHICLE SCHEDULE STATUS

- Post delivery testing and inspection underway on Unit #1
- Dead car pull test scheduled for Nov 9 (whole route)
- Live car pull test scheduled for Nov 11-12 (OTR only)
- CAF-projected dates for arrival of remaining vehicles as of October 23 (CAFCIN 1218)

Streetcar	Oct 23 Proposed Update
Unit #1	23-Oct-15
Unit #3	1-Dec-15
Unit #2	9-Dec-15
Unit #4	21-Jan-16
Unit #5	10-Feb-16

# CAF RECOVERY PLAN

- Major potential risks:
  - 1) Additional production and testing shifts will put pressure on City's engineering and inspection resources (LTK)
    - Could require additional resources for LTK contract
  - 2) Extended delivery could impact construction contractor's testing schedule
    - City is working to determine extent of this - could result in delay claim from MPD
  - 3) Extended delivery dates could impact start up schedule for operator
    - No anticipated impact to operations activities for Transdev, based on current projected delivery dates - will monitor against further delays
  - 4) Failures or issues identified in testing activities could produce further delay
    - Redesign or major retesting will require additional time



## 3.2 DESIGN & PRODUCTION ACTIVITIES



Car #1 & 2 on the CAF test track in Elmira, testing coupling for towing , and entering operational parameters into Car #2's systems

## 3.2 DESIGN & PRODUCTION ACTIVITIES



Car #3 production in Elmira, NY



Car #3 overhead hatch installation and alignment

## 3.2 DESIGN & PRODUCTION ACTIVITIES



Car #4 production in Elmira,  
Side panel installation



Car #5 production in Elmira,  
Roof installation

## 4.0 BUDGET & EXPENDITURES

- Through Oct 31, 2015:
  - \$115,377,386 has been expended on the project (not including Duke escrow)
  - \$28,195,767 remains encumbered against open contractual obligations on the project
- Major Contract Activity:
  - Ten change orders to the MPD construction contract have been issued totaling \$2,568,578.56.
  - Two change orders to the CAF vehicle contract have been issued totaling \$0
  - See Appendix A for breakout of Contingency Usage



# BUDGET VS. EXPENSES

Through 10/31/15 - DRAFT

BUDGET - June 2013		EXPENSES 10/31/2015		
Budget Category	Base + Allocated Contingency	Expended	Encumbered	Expend. + Encumb.
<b>Federal</b>				
Construction	\$ 52,511,908.33			
MOF	\$ 11,914,668.98			
Utilities (Project)	\$ 6,958,405.62	\$ 63,580,118.55	\$ 7,804,864.38	\$ 71,384,982.93
Utilities (3rd Party)	\$ 6,225,065.37	\$ 2,574,494.38	\$ 3,092,363.76	\$ 5,666,858.14
Fare Vending	\$ 550,000.00	\$ -		\$ -
City Project Administration	\$ 4,006,813.27	\$ 2,830,518.78	\$ 260.00	\$ 2,830,778.78
SORTA Project Administration	\$ 2,100,000.00	\$ 1,098,432.90	\$ 901,567.10	\$ 2,000,000.00
Real Estate	\$ 2,010,143.00	\$ 2,011,186.00	\$ -	\$ 2,011,186.00
Start-up (capital)	\$ 250,000.00	\$ -	\$ -	\$ -
Vehicles	\$ 25,213,095.40	\$ 9,138,053.28	\$ 14,813,867.23	\$ 23,951,920.50
Unallocated Contingency	\$ 4,991,010.00	\$ 3,182,009.52	\$ 1,514,115.11	\$ 4,696,124.63
<b>Subtotal</b>	<b>\$ 116,731,109.97</b>	<b>\$ 84,414,813.41</b>	<b>\$ 28,127,037.58</b>	<b>\$ 112,541,850.98</b>
Utilities (Duke Escrow)	\$ 15,000,000.00	\$ 15,000,000.00	\$ -	\$ 15,000,000.00
<b>Federal Total</b>	<b>\$ 131,731,109.97</b>	<b>\$ 99,414,813.41</b>	<b>\$ 28,127,037.58</b>	<b>\$ 127,541,850.98</b>
<b>Local</b>				
Design	\$ 14,598,719.00	\$ 14,313,044.86	\$ 19,571.85	\$ 14,332,616.71
Pre-Development	\$ 1,313,786.00	\$ 1,264,628.13	\$ 49,157.87	\$ 1,313,786.00
City Project Administration	\$ 434,663.00	\$ 384,900.38	\$ -	\$ 384,900.38
<b>Local Total</b>	<b>\$ 16,347,168.00</b>	<b>\$ 15,962,573.37</b>	<b>\$ 68,729.72</b>	<b>\$ 16,031,303.09</b>
<b>Grand Total</b>	<b>\$ 148,078,277.97</b>	<b>\$ 115,377,386.78</b>	<b>\$ 28,195,767.30</b>	<b>\$ 143,573,154.07</b>

\* Construction Expenditures include \$2.931 Million in unreleased retainage on MPD contract .  
 Vehicle Expenditures include \$346,228 in unreleased retainage on CAF contract

# RISK/CONTINGENCY ITEMS

- CONSTRUCTION
  - Additional engineering support to close construction items
- VEHICLES
  - Additional staff time, consultant time (LTK)
    - Vehicle delivery delay, acceleration of activities to recover schedule may require additional engineering/inspection support
- SAFETY & SECURITY CERTIFICATION/INTEGRATED TESTING
  - Issues identified during integrated testing and safety certification may require redesign or additional construction work
- ADDITIONAL CAPITAL EQUIPMENT, SPARE PARTS NEEDS
  - Start up process may identify additional equipment, spare needs



# CONTINGENCY USAGE

Through 10/29/15 - DRAFT

<b>Through:</b>	<b>October 29, 2015</b>				
<b>Budget Category</b>	<b>Contingency Budget</b>	<b>Completed Contingency Uses</b>	<b>Pending Contingency Uses</b>	<b>Estimated Contingency Uses</b>	<b>Contingency Remaining</b>
<b>ALLOCATED CONTINGENCY</b>					
Pre-Development	\$ -	\$ -			\$ -
Design	\$ 202,370.96	\$ -			\$ 202,370.96
Real Estate	\$ -	\$ -			\$ -
Construction					
MOF	\$ 2,000,000.00	\$ 1,359,248.32	\$ 158,537.00	\$ -	\$ 482,214.68
Utilities (Project)					
Utilities (3rd Party)	\$ 77,207.23	\$ -			\$ 77,207.23
Vehicles	\$ 2,101,722.40	\$ 977,100.75			\$ 1,124,621.65
Fare Vending	\$ 50,000.00	\$ -			\$ 50,000.00
City Project Administration	\$ 190,800.63	\$ -	\$ 190,800.63		\$ -
SORTA Project Administration	\$ 100,000.00	\$ -			\$ 100,000.00
Start-up	\$ -	\$ -			\$ -
<b>Subtotal</b>	<b>\$ 4,722,101.22</b>	<b>\$ 2,336,349.07</b>	<b>\$ 349,337.63</b>	<b>\$ -</b>	<b>\$ 2,036,414.52</b>
<b>UNALLOCATED CONTINGENCY</b>					
Unallocated Contingency		\$ 1,385,418.50		\$ 223,538.00	
Construction	\$ 4,991,010.00	\$ 2,049,340.11		\$ 925,633.00	\$ (1,133,736.64)
City Project Administration			\$ 931,868.72		
Design		\$ 608,948.31			
<b>Subtotal</b>	<b>\$ 4,991,010.00</b>	<b>\$ 4,043,706.92</b>	<b>\$ 931,868.72</b>	<b>\$ 1,149,171.00</b>	<b>\$ (1,133,736.64)</b>
Utilities (Duke Escrow)	\$ -				\$ -
<b>Grand Total</b>	<b>\$ 9,713,111.22</b>	<b>\$ 6,380,055.99</b>	<b>\$ 1,281,206.35</b>	<b>\$ 1,149,171.00</b>	<b>\$ 902,677.88</b>

## 4.1 FEDERAL GRANT ACTIVITY

- Through Oct 31, 2015:
  - \$38,562,376 has been drawn on the \$45.2 million in federal grants.
    - Approximately 85% of the federal grants have been drawn
  - Two of the four federal grants have been closed out: CMAQ and SORTA Rail ROW



# GRANT DRAWDOWN SUMMARY

Through 11/3/15

SOURCE	GRANT NUMBER	ALI CODE	Description	FEDERAL SHARE			
				Authorized	Drawn	Pending	Amount Remaining
Urban Circulator	OH-03-0303	12.79.00	City Project Admin.	\$ 1,453	\$ 1,453	\$ -	\$ -
		12.79.00	SORTA Project Admin.	\$ 1,388,545	\$ 844,226		\$ 544,319
		12.23.03	Construction	\$ 12,598,000	\$ 11,038,360		\$ 1,559,640
		12.13.20	Vehicles	\$ 11,002,000	\$ 6,667,079		\$ 4,334,921
<b>Subtotal</b>				<b>\$ 24,989,998</b>	<b>\$ 18,551,118</b>	<b>\$ -</b>	<b>\$ 6,438,880</b>
CMAQ	OH 95-X054	12.23.03	Construction	\$ 4,000,000	\$ 4,000,000		\$ -
<b>Subtotal</b>				<b>\$ 4,000,000</b>	<b>\$ 4,000,000</b>	<b>\$ -</b>	<b>\$ -</b>
Rail ROW Grant	OH-90-X265	13.73.00	Contingency	\$ 268,278	\$ 268,278		
<b>Subtotal</b>				<b>\$ 268,278</b>	<b>\$ 268,278</b>	<b>\$ -</b>	<b>\$ -</b>
TIGER 3	OH 79-0002	12.79.00	City Project Admin.	\$ 154,545	\$ 154,545	\$ -	\$ (0)
		12.79.00	SORTA Project Admin	\$ 211,453	\$ 34,434		\$ 177,019
		12.23.03	Construction	\$ 15,554,000	\$ 15,554,000		\$ (0)
<b>Subtotal</b>				<b>\$ 15,919,998</b>	<b>\$ 15,742,980</b>	<b>\$ -</b>	<b>\$ 177,018</b>
<b>TOTAL</b>				<b>\$ 45,178,274</b>	<b>\$ 38,562,376</b>	<b>\$ -</b>	<b>\$ 6,615,898</b>

\* Budget revision on 9/16/15 moved \$4.998 M from Urban Circulator ALI 12.13.20 to 12.23.03

\*\* Drawn + Pending = 85.4% of Federal grant funds



## 5.0 JOB SITE SAFETY



Job Site Safety September Safe Contractor Award for September, 3CM, the OCS Subcontractor



Job Site Safety October Safe Contractor Award Delta Rail, the "D" in MPD

## 5.0 JOB SITE SAFETY

- Safety Oriented-To date: 901
- Safety Oriented-October: 10
- Safety Orientations-October: 6
- Total man-hours worked to date: 277,856
- Total man-hours worked without a lost time accident: 176,430
- Lost Time Accidents-To date: 3
- Lost Time Accidents-October: 0
- Incidents-To date: 164
- Incidents-October: 7



## 6.0 SORTA ACTIVITIES



SORTA staff joined by MPD, TRANSDEV and the City discusses the “Be(e) Streetcar Safe” presentation to the staff of the School for Creative and Performing Arts

# 6.1 OPERATIONS & MAINTENANCE PLANNING

- SORTA staff are monitoring the streetcar construction schedule. Discussions will be held with the City regarding any early turnovers that may be required as a result of early construction finish and determining the cost and schedule implications.
- Transdev submitted the first round of standard operating procedures (SOPs). SORTA and Transportation Resource Associates are reviewing the SOPs. All SOPs will be developed by the end of October. SORTA SOPs are complete. The City of Cincinnati SOPs will be developed by December 2015. The Project Executive is assisting with coordination with the various departments at the City that are impacted by the Streetcar per the OMIGA.
- Transdev has submitted all safety critical SOPs. The Operating Rulebook draft is anticipated to be complete by the end of November.
- TRA continues to work with SORTA and the City to develop a capital improvement plan and budget as well as to develop an asset management system. The City is working to develop the asset lists for SORTA/TRA/Transdev to enter into the asset management system. This is important for asset tracking purposes and FTA compliance.



## 6.2 FARE EQUIPMENT

- The delivery of the Ticket Vending Machine units occurred and the units are located at the Metro Bond Hill facility.
- One machine will be relocated to the Metro Gwynne Administrative Offices for programming, testing and commissioning. This includes checking to ensure that the new streetcar fares integrate with all of the permutations and combinations of Metro/TANK bus fares, and that all of the screens are programmed correctly.
- Installation will occur in March 2015 by MPD.



## 6.3 RAIL ACTIVATION

- The SORTA Rail Activation Committee (RAC) continues to meet bi-weekly. Major issues include the configuration of the ticket vending machines, commissioning and set-up of the radio communications, and dispatch equipment .
- The Integrated Test Team (ITT) has been established as a subcommittee of the RAC. It will meet weekly during the integrated testing phase of the start-up.



## 6.4 SAFETY & SECURITY CERTIFICATION

- The Streetcar Project Safety Officer, TJ Thorn, has returned to SORTA as a full time employee. He continues to be supported by Transportation Resource Associates under several task orders with SORTA.
- Safety certification efforts are focused on the delayed CAF vehicle design audit (this will complete the certification of the vehicle design) and the construction verification audits provided by the City inspectors.
- Review of the documentation from Transdev (including SOPs) is underway.
- The Fire Life Safety and Security Committee will transition from monthly to bi-weekly in November. The Safety and Security Review Committee will remain weekly.
- The FTA Transit Safety Office (TSO - located in FTA HQ in Washington DC) has scheduled the Safety and Security Readiness Review on site in Cincinnati the second week of January 2016. This is a major milestone for revenue service safety and security certification. Documentation from SORTA and the City is due to the FTA TSO in early December.



## 6.5 ADVERTISING / SPONSORSHIPS

- The Advertising Vehicles contract for sale of streetcar advertising and system sponsorship opportunities has been executed and notice to proceed has been given.



## 6.5 MARKETING / EDUCATION

- The “Be(e) Streetcar Safe” campaign plan ramped up into full swing. Many media outlets including radio, TV, print and social media have provided coverage and assisted in getting the word out.
- Metro will be taking over the monthly stakeholders meeting and the weekly email communication as part of the transition from construction to operations.
- Staffs from Metro, the City and Transdev continue to meet with various groups and stakeholders to get the safety message out.
- Many collateral materials have been developed and the first vehicle delivery was used as an opportunity to begin distribution.



## 6.6 UPCOMING SORTA BOARD OF TRUSTEES ACTIONS

- Approval of contract between SORTA and Downtown Cincinnati Improvement District governing streetcar operations and maintenance funding from the Voluntary Tax Incentive Contribution Agreement (VTICA) (anticipated November 2015);
- Approval of Fare and Service Equity Analysis/Title VI review including public hearings and any associated service changes (February 2016)
- Approval of revised Streetcar Operating Hours (February 2016)



## 6.7 STREETCAR VEHICLE

- The first streetcar vehicle, #1175, was delivered to the MOF at 1927 Race Street on October 30. Metro contractor Transdev provided the movement of the vehicle from outside the MOF on the rails on Race Street to inside the building.
- Transdev utilized their subcontractor Schaffer's Towing, who worked with Transdev to develop a towing interface to the streetcar coupler. The unloading and move was completed safely and securely, with no interface or clearance issues.
- SORTA staff and Transdev continue to work with the City and CAF USA on critical start-up issues such as delivery schedules for spare parts, special tools and scheduling training.
- The following streetcar vehicles should be delivered approximately one per month through February.



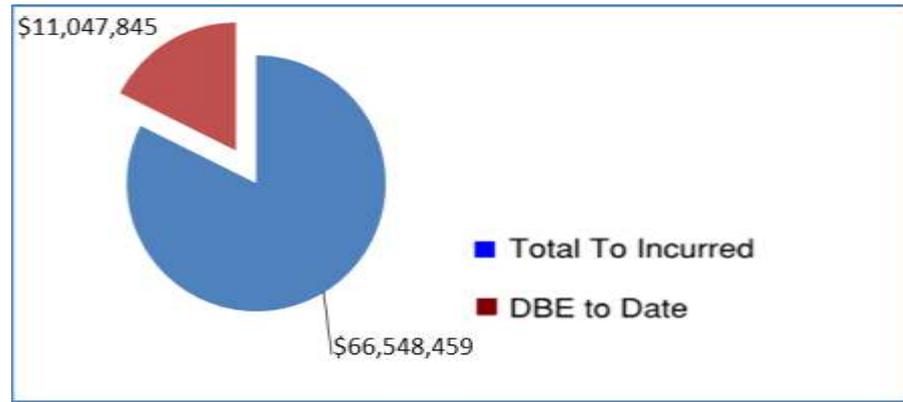
## 6.8 WHEEL TRUING MACHINE

- The Wheel Truing Machine was delivered by Delta Manufacturing and installed. Minor technical modifications to the machine to resolve some compatibility issues will be undertaken in the coming months, and then the machine will be tested and commissioned, and training of the Metro/Transdev staff will take place.
- Delta Manufacturing will also deliver the rail wheel profile measuring tools to SORTA in December.



## 7.0 DBE & INCLUSION

DBE Spend To Date:  
16.6%



- MPD reports a DBE Spend at end of October: 16.6%, the same as the month of July, August, and September and below the target of 18%.
- The City will continue to monitor MPD's reporting and performance against the DBE goal and seek ways to maximize DBE spending and discuss during weekly construction progress meetings.
- MPD reports that work could still on track to meet the DBE sub-contracting goal of 18% at the time of final billing. but the tallying of final quantities may show them below their goal

# DBE & INCLUSION

## Workforce Inclusion Compliance

- City requirements under the contract establish workforce inclusion goals for MPD as well. The City requirements establish inclusion goals for the contractor's aggregate workforce in Hamilton County throughout the term of the contract. The chart below summarizes hours worked on the contract (Actual) as well as the countywide workforce inclusion goals:

Minority & Female Utilization		
	<u>Actual</u>	<u>Goal</u>
Minority Hours	18.7%	11.9%
Female Hours	3.7%	6.9%
Minority Female	68.3%	50.0%

## 8.0 FEDERAL OVERSIGHT ACTIVITIES

- All activities undertaken by the project have to date met Federal Transit Administration rules and regulations.
- The City and SORTA each have responsibility for ensuring that the project adheres to FTA guidelines governing such areas as procurement, project management, financial management, operations and maintenance, Buy America, and safety and security certification.
- Project staff responded to various requests for information from FTA and the PMOC throughout the reporting period.
- The Quarterly Review Meeting took place in Cincinnati in September 11, 2015, with participation by the FTA Regional Office personnel, the PMOC, SORTA, and the City.
- The October monthly meeting/teleconference with the FTA Regional Office, SORTA, the City and the PMOC took place on October 9, 2015.
- No significant action items resulted from either meeting.



Appendix B  
Change Orders, Contingency Allocations

Through: **October 29, 2015**

ID	Budget Category	Source	Contract	Contingency Usage Type	Contingency Usage #	Date	Description	Status	AMOUNT (10/29/15)
1	Construction	Base	MPD	Change Order	1	8/2/2013	Labor, bonding, and materials costs associated with delay in contract NTP date.	Complete	\$ 492,933.00
2	Construction	Unallocated Contingency	MPD	Change Order	2	1/14/2014	Delay costs appropriated by City Council for Council-mandated "pause"	Complete	\$ 100,000.00
3	Construction	Unallocated Contingency	MPD	Change Order	3	1/28/2014	Adds for additional potholing and prevailing wage; credits for sewer manhole redesign and removal of communication conduits	Complete	\$ 359,745.00
4	Construction	Allocated Contingency	MPD	Contingency Allocation	1	11/8/2013	Empty conduit crossings; non-perform test station	Complete	\$ 15,791.64
5	Construction	Allocated Contingency	MPD	Contingency Allocation	2	11/8/2013	GCWW field conditions	Complete	\$ 3,571.00
6	Construction	Allocated Contingency	MPD	Contingency Allocation	3	12/30/2013	Mortar for granite pavers	Complete	\$ 6,825.00
7	Construction	Allocated Contingency	MPD	Contingency Allocation	4	12/30/2013	Additional abatement at MOF site	Complete	\$ 32,290.65
8	Construction	Allocated Contingency	MPD	Contingency Allocation	5	1/30/2014	Cast iron detectable warning; add. Geopiers; dielectric membrane; MOF conditions, others	Complete	\$ 31,309.00
9	Unallocated Contingency	Unallocated Contingency	Thelen	Certification	N/A	10/21/2013	Materials testing	Complete	\$ 108,594.50
10	Unallocated Contingency	Unallocated Contingency	KPMG	Certification	N/A	12/11/2013	City Council-mandated audit costs	Complete	\$ 250,000.00
11	Unallocated Contingency	Unallocated Contingency	Transystems	Certification	N/A	8/30/2013	Schedule review support	Complete	\$ 60,728.00
12	Construction	Unallocated Contingency	MPD	Change Order	4	4/7/2014	Revised underground conduit crossings: revised OCS poles; revised Trapeze allowance; MOF vehicle APS changes;	Complete	\$ 265,211.25
13	Construction	Unallocated Contingency	MPD	Change Order	5	4/21/2014	City Council-mandated Delay Claim	Complete	\$ 637,108.00
14	Design	Unallocated Contingency	PB	Certification	N/A	8/25/2014	Additional construction support work needed	Complete	\$ 608,948.31
15	Construction	Unallocated Contingency	MPD	Change Order	6	7/22/2014	Water Works design changes	Complete	\$ 313,782.44
16	Construction	Allocated Contingency	MPD	Contingency Allocation	6	4/24/2014	Misc. MOF mods, telecom conduit for MOF, GCWW force acct., Cent. Pkwy. Irrigation	Complete	\$ 79,870.00
17	Construction	Allocated Contingency	MPD	Contingency Allocation	7	5/9/2014	WTM conduit; Findlay dielectric membrane; Elm St. mill	Complete	\$ 52,503.00
18	Unallocated Contingency	Unallocated Contingency	Transystems	Certification	N/A	7/22/2014	Task 4 - Schedule review support through MOF completion	Complete	\$ 68,854.00
19	Unallocated Contingency	Unallocated Contingency	Duke Energy	Certification	N/A	7/31/2014	Electrical service installation costs	Complete	\$ 200,000.00
20	Construction	Allocated Contingency	MPD	Contingency Allocation	8	7/22/2014	basement encroachment, cellar door, GCWW force acct., manhole mods	Complete	\$ 130,151.00
21	Construction	Allocated Contingency	MPD	Contingency Allocation	9	10/1/2014	various MOF, sewer, GCWW, other revisions,	Complete	\$ 301,038.40
22	Construction	Allocated Contingency	MPD	Contingency Allocation	10	11/17/2014	Contingency Allocation #10	Complete	\$ 210,137.50
23	Unallocated Contingency	Unallocated Contingency	DELTA Mfg.	Certification	N/A	11/17/2014	Wheel Truing Machine	Complete	\$ 606,000.00
24	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	Submitted ECI's from MPD	Pending	
25	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	Estimated ECI's from MPD	Pending	
26	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	TPSS# 2 and 3 screenwall changes	Estimated	
27	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	Spare Switch Points	Estimated	\$ 42,268.00
28	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	MOF Cameras, TPSS Wiring	Estimated	\$ 129,539.00
29	City Project Administration	Unallocated Contingency	City	Certification	N/A	TBD	City- Additional Staff Time	Pending	
30	City Project Administration	Allocated Contingency	City	Certification	N/A	TBD	City- Additional Staff Time	Pending	\$ 190,800.63
31	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	MOF Telecom wiring	Estimated	
32	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	Ford Force Account	Estimated	
33	Vehicles	Allocated Contingency	LTK	Certification	N/A	TBD	LTK - Additional Staff Time	Complete	\$ 977,100.75

Appendix B  
Change Orders, Contingency Allocations

Through: October 29, 2015

ID	Budget Category	Source	Contract	Contingency Usage Type	Contingency Usage #	Date	Description	Status	AMOUNT (10/29/15)
34	Unallocated Contingency	Unallocated Contingency	Duke Energy	Certification	N/A	TBD	Duke hookup costs	Estimated	\$ 130,000.00
35	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	Additional Quantities Needed	Estimated	\$ 525,000.00
36	Unallocated Contingency	Unallocated Contingency	TBD	Certification	N/A	TBD	Misc. MOF fit out needs, WTM mods	Estimated	\$ 93,538.00
37	Construction	Unallocated Contingency	TBD	Certification	N/A	TBD	Bike Racks, pervious concrete	Estimated	
38	Unallocated Contingency	Unallocated Contingency	Transystems	Certification	Task 5	2/12/2015	Schedule review support Task 5	Complete	\$ 71,242.00
39	Construction	Allocated Contingency	MPD	Contingency Allocation	11	1/7/2015	Partial depth repair, handrail on Race, misc. items	Complete	\$ 56,592.02
40	Construction	Unallocated Contingency	MPD	Change Order	7	3/18/2015	Lifting Jacks settlement, Owner-supplied Equipment mod., TPSS negative drainage conduit	Complete	\$ 67,630.00
41	Construction	Unallocated Contingency	MPD	Change Order	TBD	TBD	Station Stop mods for TVM installation	Estimated	\$ 180,000.00
42	Unallocated Contingency	Unallocated Contingency	TBD	TBD	TBD	TBD	12th & Race Overhead Light modification	Estimated	
43	Construction	Unallocated Contingency	MPD	Change Order	8	3/20/2015	TPSS Screenwall changes	Complete	\$ 19,973.66
44	Construction	Allocated Contingency	MPD	Contingency Allocation	12	TBD	MOF prox readers, wayside power changes Ford FA, Type 3 waterproofing, other misc. field issues	Complete	\$ 267,924.00
45	Unallocated Contingency	Unallocated Contingency	Thelen	Certification	N/A	3/24/2015	Additional materials testing	Complete	\$ 20,000.00
46	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	Central Parkway /Walnut OCS conflicts	Estimated	\$ 20,000.00
47	Construction	Unallocated Contingency	MPD	Contingency Allocation	N/A	TBD	Traffic Boom Arm Bolt Pattern conflict	Estimated	\$ 34,540.00
48	Construction	Allocated Contingency	MPD	Contingency Allocation	13	TBD	special concrete finishing on Main, wayfinding on 2nd, MOF tread ladder, Oil/Water separator, additional sewer manhole, ped pole mods, Ford FA through Jan 2015	Complete	\$ 120,408.11
49	Construction	Allocated Contingency	MPD	Contingency Allocation	14	TBD	capped manhole, utility conflict modification, subway OCS survey, Ford FA, various MOF design errors, shelter damage	Complete	\$ 50,837.00
50	Construction	Unallocated Contingency	MPD	SORTA IGA Amend #6	N/A	6/19/2015	MOF office equipment, Trapeze Wireless LAN	Complete	\$ 76,293.76
51	Fare Vending	Base	MPD	Change Order	10	TBD	TVM Enclosures	Estimated	\$ 128,153.00
52	Construction	Unallocated Contingency	MPD	Change Order	9	TBD	MOF & TPSS #1 SCADA internet wiring; MOF furniture; MOF WTM Mods; MOF cameras	Complete	\$ 176,923.00
53	Construction	Unallocated Contingency	MPD	Contingency Allocation	15	TBD	TPSS #1 FRE conduit, Pavers at TPSS #2, MOF pole mods, TPSS 1 electrical cabinet	Complete	\$ 32,673.00