

DOT Investments in the Greenmount Corridor FY16-FY20

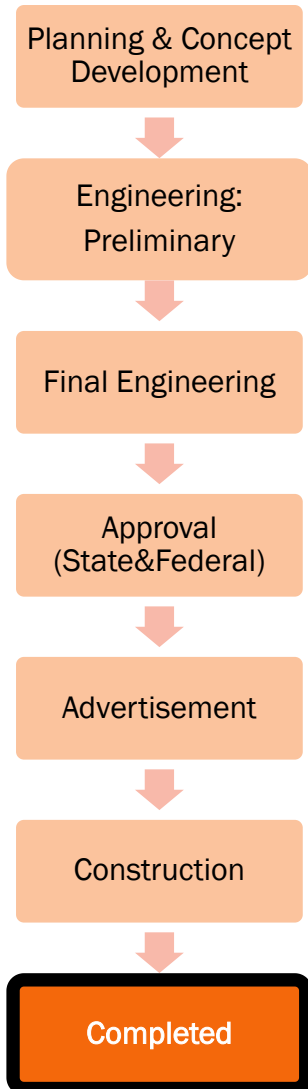


Valorie LaCour, Chief
Transportation Planning

April 7, 2016

*To help grow Baltimore by 10,000 families in 10 years,
we provide a safe and sustainable multi-modal transportation system.*

FY2010 to FY2016

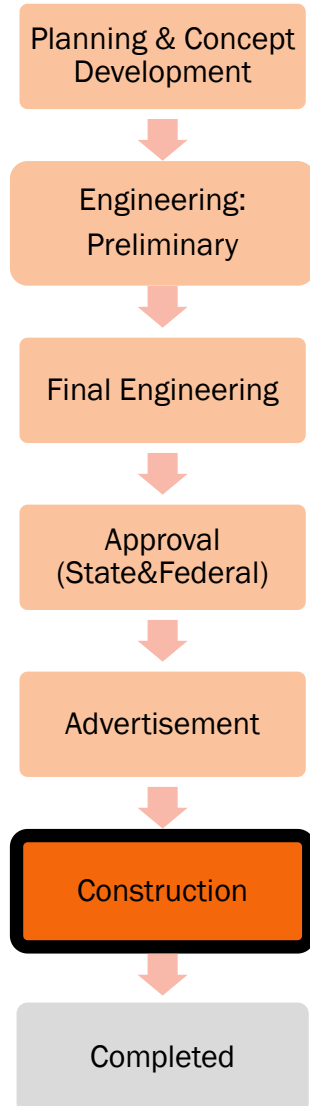


∞ Streetscape from Baltimore County Line to 43rd Street – Completed

∞ 20th Street resurfaced between Barclay and Greenmount – Completed

∞ SRTS Barclay Elementary School- Intersection of 29th Street and Greenmount Avenue - Completed

Resurfacing and streetscape East North Avenue from Asquith Street to Washington Street – Under Construction



CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION TRANSPORTATION ENGINEERING AND CONSTRUCTION DIVISION

**CONTRACT NO. TR08308
SHA NO. BC440003
FAP NO. HP-NHPP-0468(7)E**

RECONSTRUCT EAST NORTH AVENUE (US ROUTE 1) IN BALTIMORE

FROM WEST OF AISQUITZ STREET TO EAST OF WASHINGTON STREET

AERIAL MAP

SCHEDULE

NO.	DATE	REVISION	DESCRIPTION	BY	CHKD	DATE	REVISION	DESCRIPTION	BY	CHKD	DATE	REVISION	DESCRIPTION	BY	CHKD	DATE	REVISION	DESCRIPTION	BY	CHKD	DATE	REVISION	DESCRIPTION
1	10/1/08	1	INITIAL DESIGN	W. J. HARRIS	W. J. HARRIS	10/1/08	1	INITIAL DESIGN	W. J. HARRIS	W. J. HARRIS	10/1/08	1	INITIAL DESIGN	W. J. HARRIS	W. J. HARRIS	10/1/08	1	INITIAL DESIGN	W. J. HARRIS	W. J. HARRIS	10/1/08	1	INITIAL DESIGN

200 HARBORVIEW ROAD, SUITE 300
BALTIMORE, MD 21204
TEL: 410-528-1000

CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION

APPROVED: *Thomas D. Hall*
TITLE: *Transportation Engineer*

3/8/15

APPROVED: *Donna Murphy*
TITLE: *City Engineer*

3/10/15

FY2016 to FY2019

Planning & Concept Development

Engineering:
Preliminary

Final Engineering

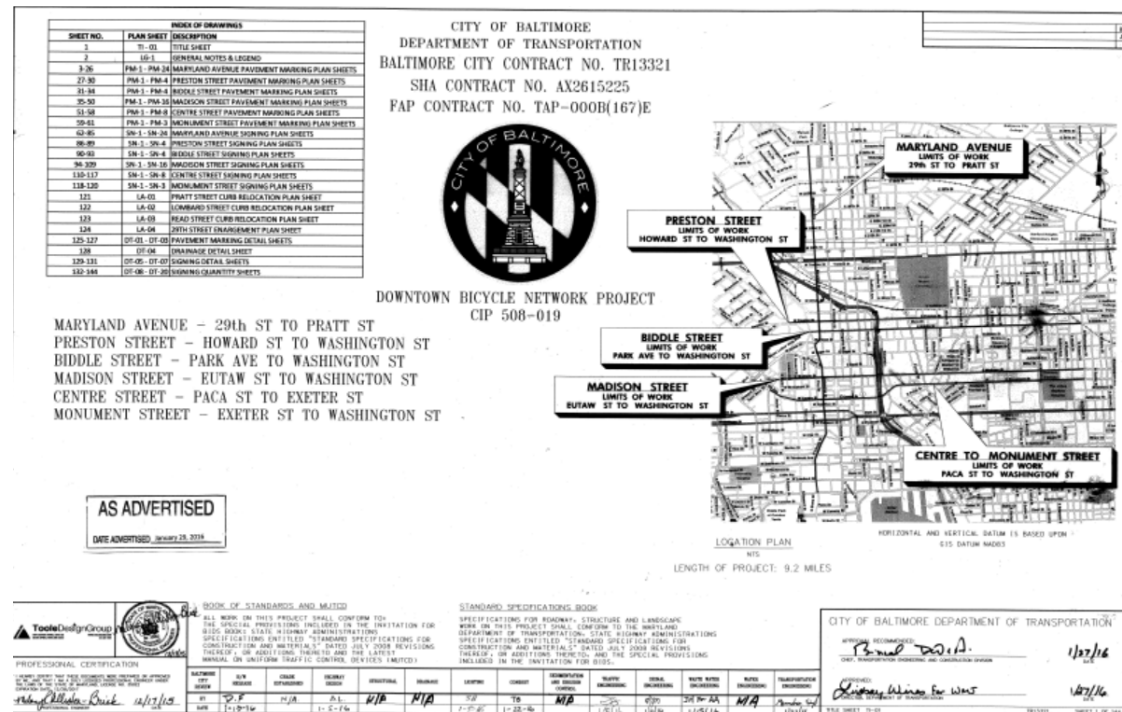
Approval
(State&Federal)

Advertisement

Construction

Completed

 Downtown Bicycle Network on East Preston Street - Washington Street to Eutaw Street –
Advertised construction to begin FY2017



FY2016 to FY2019

Planning & Concept Development



Engineering:
Preliminary



Final Engineering



Approval
(State&Federal)



Advertisement

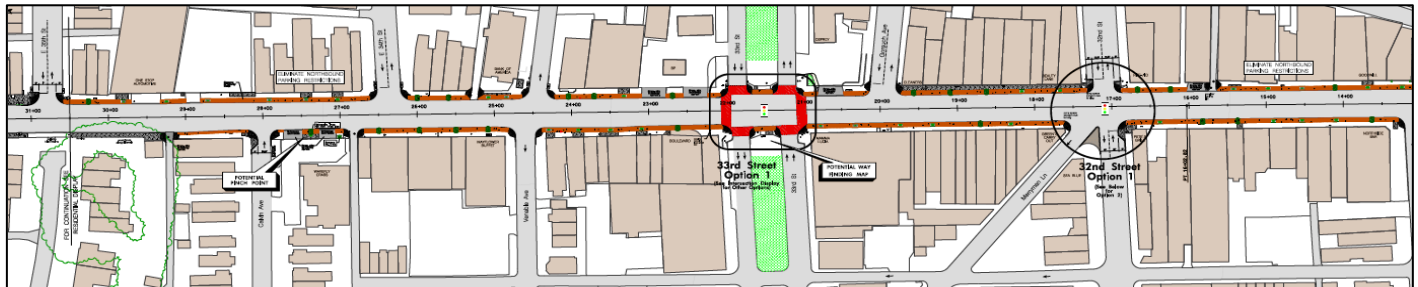


Construction



Completed

 Resurfacing and streetscape Greenmount Avenue between 43rd Street and 29th Street – Final Engineering



FY2016 to FY2019

Planning & Concept Development

Engineering:
Preliminary

Final Engineering

Approval
(State&Federal)

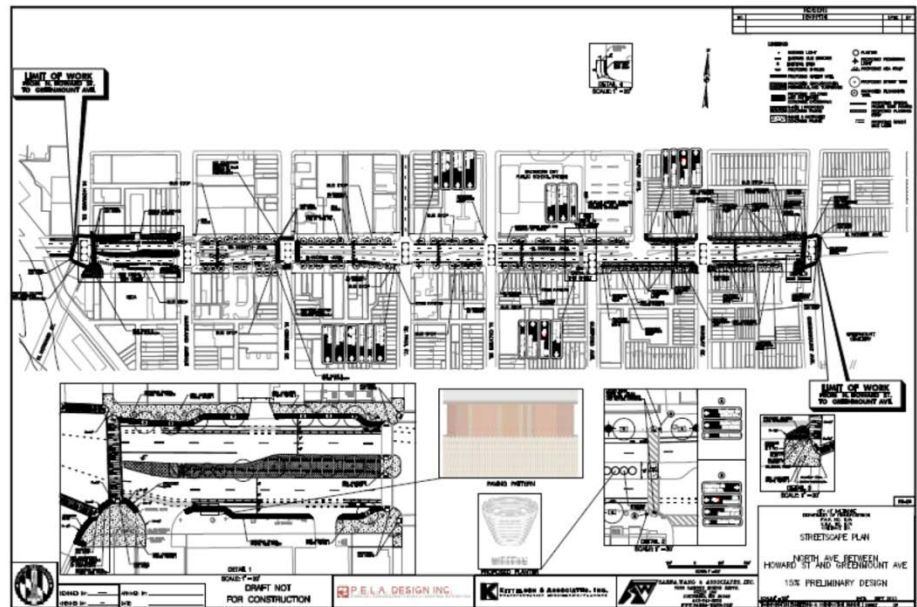
Advertisement

Construction

Completed



East North Avenue Vision Plan – N. Howard Street to Greenmount Avenue – Preliminary Engineering



East North Avenue Streetscape – Greenmount Avenue to Asquith Street – Preliminary Engineering

LINCS and DOT

- ✎ Participated in the ULI TAP workshops
- ✎ Participated in the Action Plan development
- ✎ Developing a set of immediate and short term enhancements to the Greenmount Corridor

LINCS ACTION PLAN

1


GOAL: Create a corridor that is safe and accessible for multiple modes of transit through an improved street design.

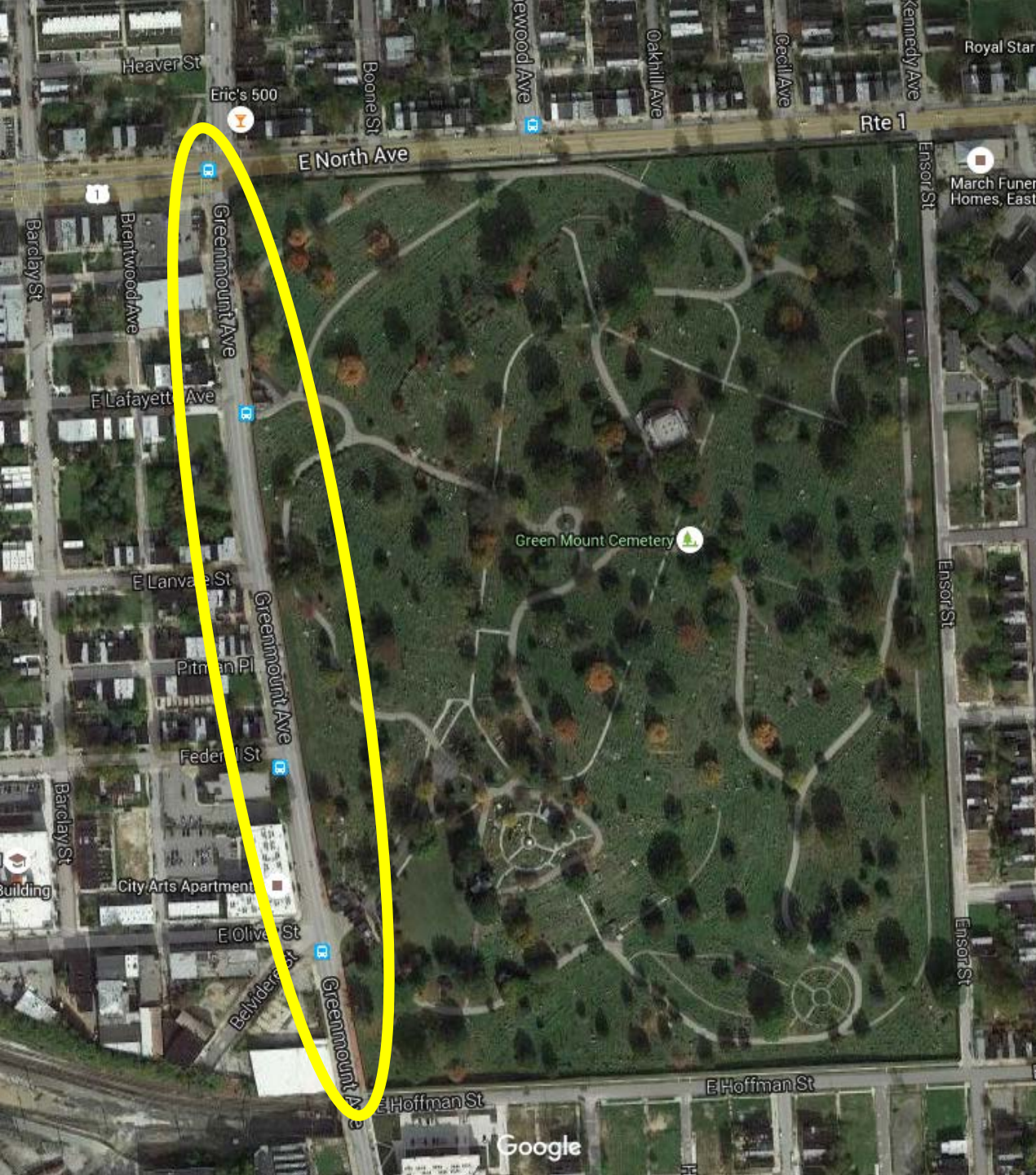
Objective	Action	Lead + Partners	Milestones	Time			
				Now	1-3 yrs	3-5 yrs	5+yrs
1.1 Better manage traffic and improve vehicular flow	Investigate traffic light timing and phasing options on Greenmount Avenue, especially at North Avenue and at 25 th Street	DOT	Signal Timing and Phasing under review at North Ave and 25 th Street				
	Upgrade traffic signal operation and timing to be dynamic and programmable, to adjust for changing traffic patterns throughout the day	DOT	Traffic Division, Signal Section are evaluating the request for upgrading signals along corridor				
	Conduct traffic counts and study the impacts of removing park hour parking restrictions. Recommend any opportunities to do so and their limits. Identify locations where vehicular speed is highest and implement some form of traffic calming. Test the effectiveness of this measure.	DOT	TBD				
			Evaluating removal of Peak Parking restrictions along Greenmount and scoping feasibility study				

LINCS ACTION PLAN

1

GOAL: Create a corridor that is safe and accessible for multiple modes of transit through an improved street design.

Objective	Action	Lead + Partners	Milestones	Time			
				Now	1-3 yrs	3-5 yrs	5+ys
	Narrow the roadway where it is widest; investigate bump-outs where the road is 40' wide; explore widening the sidewalks or narrowing the roadway between North Avenue and East Hoffman Street where the road is 52' wide						



- 🌀 Greenmount south of North Avenue along the cemetery averages 52' wide
- 🌀 DOT is evaluating this section of Greenmount for travel lane reduction
- 🌀 DOT will work with the community on opportunities
- 🌀 Community engagement to begin in FY17

LINCS ACTION PLAN

1

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Objective	Action	Lead + Partners	Milestones	Time			
				Now	1-3 yrs	3-5 yrs	5+ yrs
1.2 Better delineate travel lanes and pedestrian crossings	Restripe the roadway where markings are faded. Ensure proper guidance is provided to drivers.	DOT	TBD	■			
	Upgrade directional signage for drivers	DOT			■		
	Upgrade pedestrian signage at crosswalks	DOT	TBD		■		
	Restripe crosswalks where needed	DOT		■			
1.3 Work with MTA to improve transit operations along Greenmount Avenue	Evaluate changes that will allow buses to safely pull over to pick up or discharge passengers, without impeding other vehicular traffic	DOT, MTA	<div>DOT is advocating for the Community on Greenmount Transit with MTA</div>				
	Consider decreasing the number of bus stops (currently 16) in the study area	DOT, MTA					



Current Paving Season

- ✂ Project Limits: Greenmount Avenue – 29th Street to West Eager Street
- ✂ Refresh pavement marking
- ✂ Renew lane markings and crossings
- ✂ Replace faded and missing signs

LINCS ACTION PLAN

1

GOAL: Create a corridor that is safe and accessible for multiple modes of transit through an improved street design.

Objective	Action	Lead + Partners	Milestones	Time			
				Now	1-3 yrs	3-5 yrs	5+yrs
1.4 Improve the pedestrian experience	Upgrade and increase the number of pedestrian ramps to be more consistent along the corridor	DOT	TBD				■
	Improve pedestrian signal timing	DOT	TBD	■			
	Increase the number of crosswalk locations	DOT	TBD		■		
	Evaluate the feasibility of raised crosswalks to improve visibility and serve as a signal to drivers at key locations	DOT	TBD		■		
	Narrow the road or provide bumpouts at heavily used intersections for safer pedestrian crossing	DOT	TBD				■
	Improve the pedestrian connection between the Greenmount Recreation Center and MUND Park to slow down traffic and make it safer for children to cross at this location	DOT			■		
	Upgrade Greenmount Avenue streetscape with street tree plantings and pedestrian lighting where appropriate	DOT	TBD				■

Current Paving Season

- ✂ Project Limits: Greenmount Avenue – 29th Street to West Eager Street
- ✂ Check pedestrian signal times
- ✂ Check operation of pedestrian push buttons
- ✂ Investigate need for additional pedestrian signing at crosswalks

Short Term FY17 to FY19

- ∞ Project Limits: Greenmount Avenue – 29th Street to West Eager Street
- ∞ Evaluate intersections for ADA ramp compliance and program priority locations for ramp installation

Focus projects

- Design and implement new crosswalk connecting the Recreation Center to Mund Park at 24th Street on Greenmount Avenue



Mund Park Crosswalk



Mund Park



Mund Park



Mund Park



Project Elements:

Locate New Crosswalk between Rec Center and Main Park Entrance

Refresh Crosswalk marking at 24th Street and Loch Raven Road

Investigate and repair sidewalk in front of Rec Center to the new crosswalk

Construct ADA curb ramps where appropriate to accommodate new crosswalk

Focus projects

Design and implement
enhancement to
East Preston Street at
Greenmount Avenue





DOT Investment on East Preston Street – DOWNTOWN BICYCLE NETWORK

INDEX OF DRAWINGS		
SHEET NO.	PLAN SHEET	DESCRIPTION
1	TI-01	TITLE SHEET
2	LG-1	GENERAL NOTES & LEGEND
3-26	PM-1 - PM-24	MARYLAND AVENUE PAVEMENT MARKING PLAN SHEETS
27-30	PM-1 - PM-4	PRESTON STREET PAVEMENT MARKING PLAN SHEETS
31-34	PM-1 - PM-4	BIDDLE STREET PAVEMENT MARKING PLAN SHEETS
35-38	PM-1 - PM-4	MADISON STREET PAVEMENT MARKING PLAN SHEETS
39-42	PM-1 - PM-4	CENTRE STREET PAVEMENT MARKING PLAN SHEETS
43-46	PM-1 - PM-4	MONUMENT STREET PAVEMENT MARKING PLAN SHEETS
47-50	SN-1 - SN-4	MARYLAND AVENUE SIGNING PLAN SHEETS
51-54	SN-1 - SN-4	PRESTON STREET SIGNING PLAN SHEETS
55-58	SN-1 - SN-4	BIDDLE STREET SIGNING PLAN SHEETS
59-62	SN-1 - SN-4	MADISON STREET SIGNING PLAN SHEETS
63-66	SN-1 - SN-4	CENTRE STREET SIGNING PLAN SHEETS
67-70	SN-1 - SN-4	MONUMENT STREET SIGNING PLAN SHEETS
71-74	LA-01	PRATT STREET CURB RELOCATION PLAN SHEET
75-78	LA-02	LOWRIE STREET CURB RELOCATION PLAN SHEET
79-82	LA-03	READ STREET CURB RELOCATION PLAN SHEET
83-86	LA-04	29TH STREET ENLARGEMENT PLAN SHEET
87-90	DT-01 - DT-03	PAVEMENT MARKING DETAIL SHEETS
91-94	DT-04	DRAINAGE DETAIL SHEET
95-98	DT-05 - DT-07	SIGNING DETAIL SHEETS
99-102	DT-08 - DT-10	SIGNING QUANTITY SHEETS

CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
BALTIMORE CITY CONTRACT NO. TR13321
SHA CONTRACT NO. AX2615225
FAP CONTRACT NO. TAP-000B(167)E



DOWNTOWN BICYCLE NETWORK PROJECT
CIP 508-019

MARYLAND AVENUE – 20th ST TO PRATT ST

PRESTON STREET – HOWARD ST TO WASHINGTON ST

BIDDLE STREET – PARK AVE TO WASHINGTON ST

MADISON STREET – EUTAW ST TO WASHINGTON ST

CENTRE STREET – PACA ST TO EXETER ST

MONUMENT STREET – EXETER ST TO WASHINGTON ST

AS ADVERTISED

DATE ADVERTISED: January 28, 2014

Greenmount at East Preston Street included in the Project

PRESTON STREET
LIMITS OF WORK
HOWARD ST TO WASHINGTON ST

BIDDLE STREET
LIMITS OF WORK
PARK AVE TO WASHINGTON ST

MADISON STREET
LIMITS OF WORK
EUTAW ST TO WASHINGTON ST

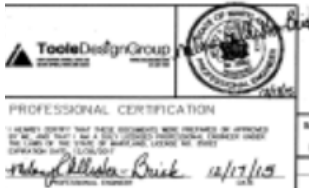
MARYLAND AVENUE
LIMITS OF WORK
29th ST TO PRATT ST

CENTRE TO MONUMENT STREET
LIMITS OF WORK
PACA ST TO WASHINGTON ST

LOCATION PLAN

LENGTH OF PROJECT: 9.2 MILES

HORIZONTAL AND VERTICAL DATUM IS BASED UPON
NAD 83 DATUM MARKS



BOOK OF STANDARDS AND MUTCD

ALL WORK ON THIS PROJECT SHALL CONFORM TO THE SPECIAL PROVISIONS INCLUDED IN THE BIDDER'S BOOK OF STANDARDS AND MUTCD. THE SPECIAL PROVISIONS SHALL BE THE LATEST EDITION OF THE MUTCD, UNLESS OTHERWISE SPECIFIED. THE SPECIAL PROVISIONS SHALL BE THE LATEST EDITION OF THE MUTCD, UNLESS OTHERWISE SPECIFIED.

SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" DATED JULY 2008 REVISIONS THEREOF, OR ADDITIONS THEREOF, AND THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS.

DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY
12/17/13	RJB	12/17/13	RJB	12/17/13	RJB	12/17/13	RJB	12/17/13	RJB	12/17/13	RJB	12/17/13	RJB	12/17/13	RJB	12/17/13	RJB


CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION

APPROVED: *Benjamin Davis* 1/27/16
CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION

APPROVED: *Anthony Wilson for West* 1/27/16
CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION

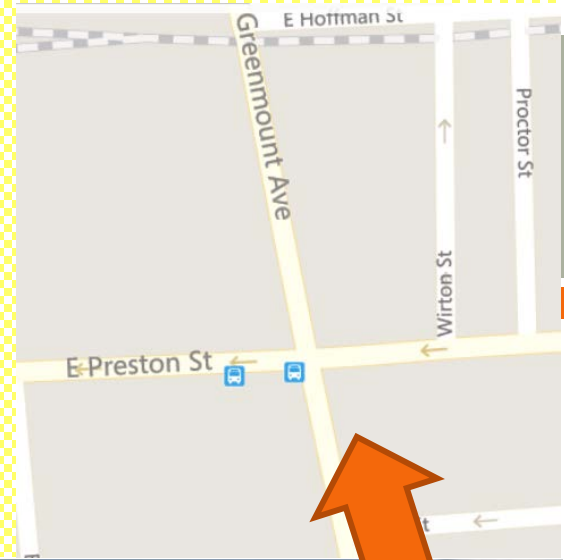
WIDE SHEET 75-01 TR13321 SHEET 1 OF 144



 **LINCS DOT Project:**
Quick Add-on Project to
further redefine
intersection

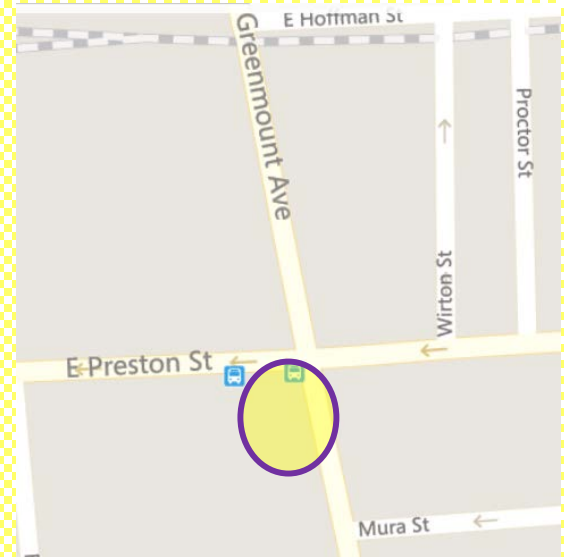


Greenmount Avenue
traveling north approaching
intersection



Greenmount Avenue

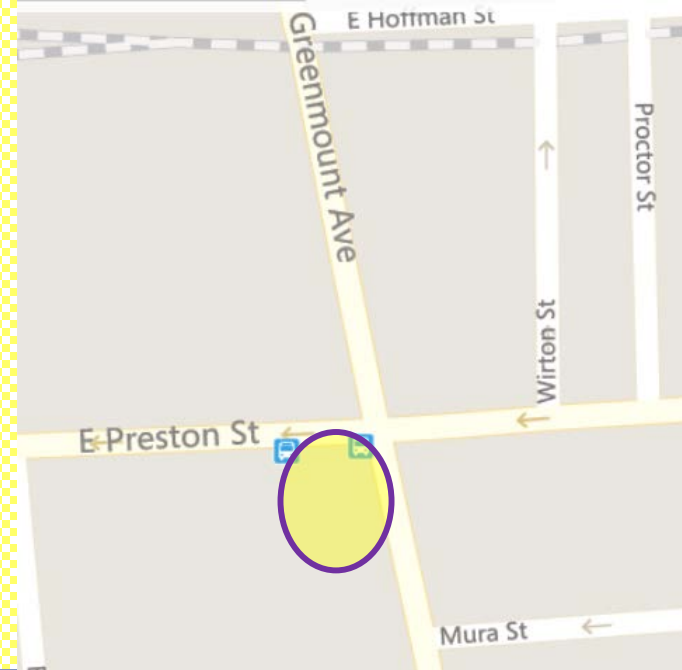
At intersection looking at Yellow Bowl



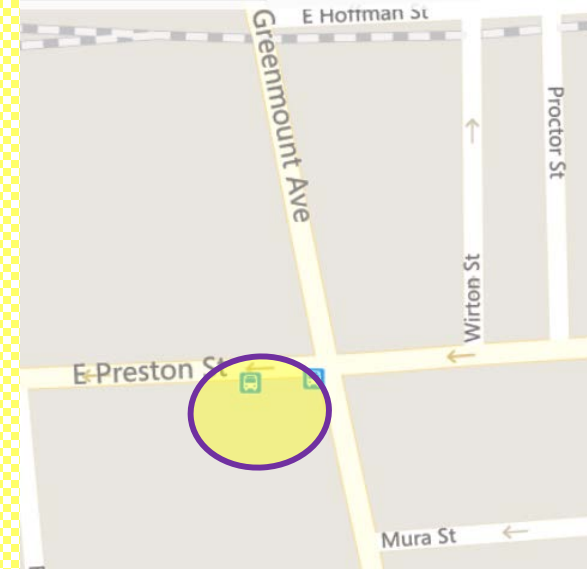
Greenmount Avenue

Building side of

Yellow Bowl



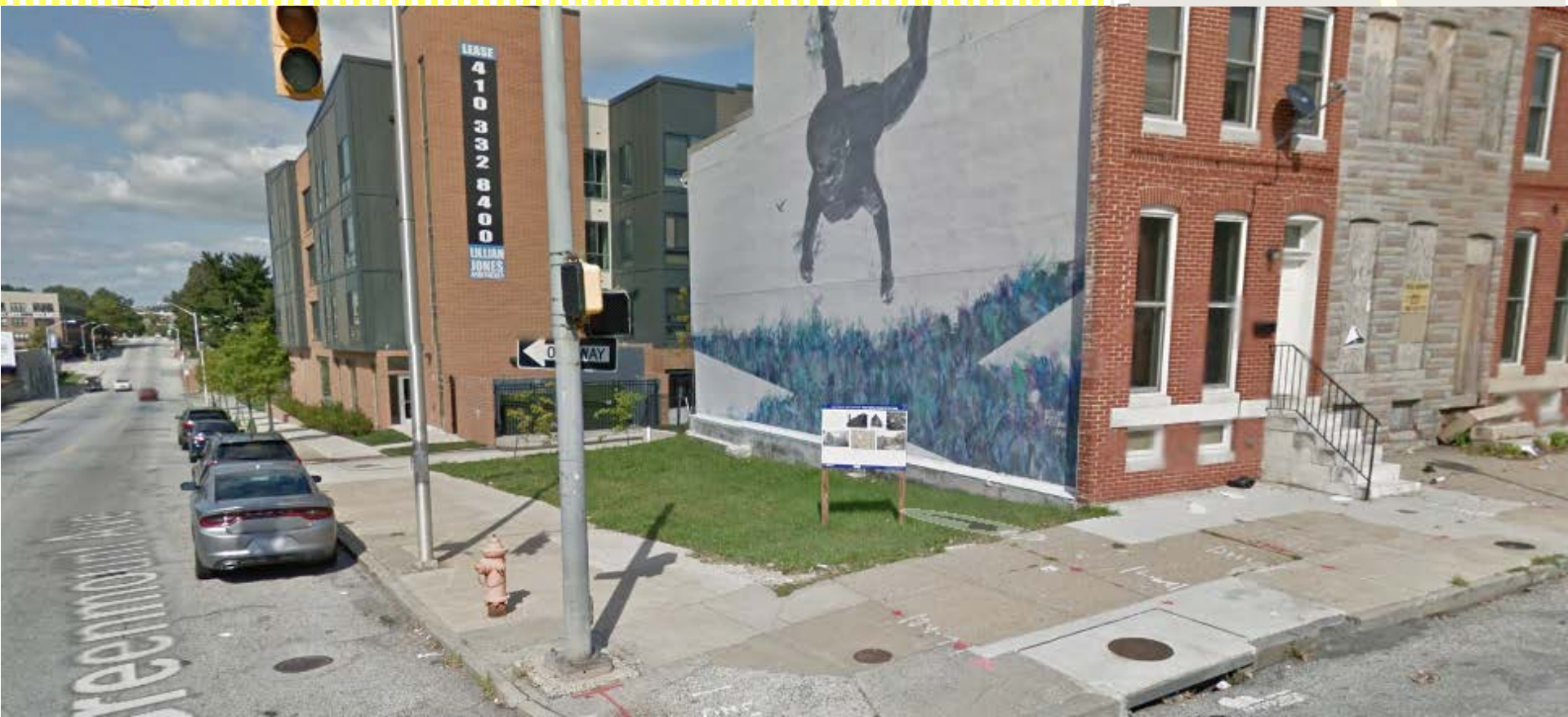
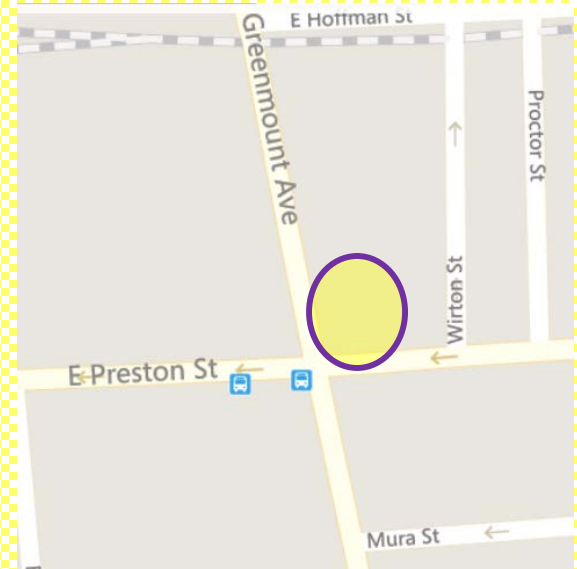
East Preston Street Building side of Liquor Store



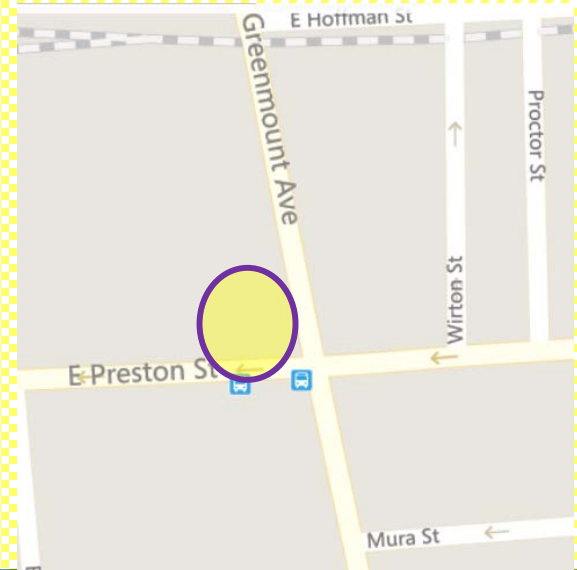
Greenmount Avenue

Intersection opposite corner

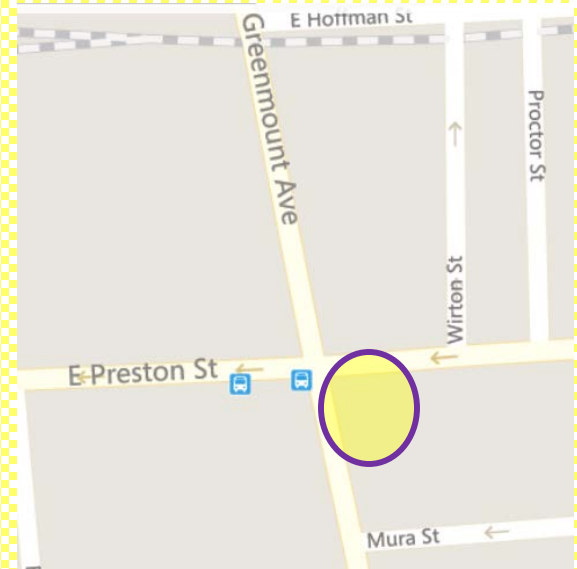
From Yellow Bowl



Greenmount Avenue Intersection corner across the street



Greenmount Avenue Intersection corner across the street



The Yellow Bowl

- Partners DOT, BDC, DPW and BOPA
- BOPA – engage artist to develop Mural on building wall and small sculpture on sidewalk at intersection
- BDC – Façade Enhancement program to update Yellowbowl and Liquor Store
- DOT – Work with community of corner enhancement at the Yellow Bowl

Summary

- ✧ Project Limits: Greenmount Avenue – 29th Street to West Eager Street
- ✧ Refresh pavement marking
- ✧ Renew lane markings and crossings
- ✧ Replace faded and missing signs
- ✧ Check pedestrian signal times
- ✧ Check operation of pedestrian push buttons
- ✧ Investigate need for additional pedestrian signing at crosswalks
- ✧ Evaluate intersections for ADA ramp compliance and program priority locations for ramp installation
- ✧ Design and implement enhancement to East Preston Street at Greenmount Avenue
- ✧ Design and implement new crosswalk connecting the Recreation Center to Mund Park at 24th Street on Greenmount Avenue
- ✧ Greenmount south of North Avenue to Hamilton Street: Engage Community on reallocating ROW for non-auto opportunities

Discussion



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