

▶ Outreach 2016

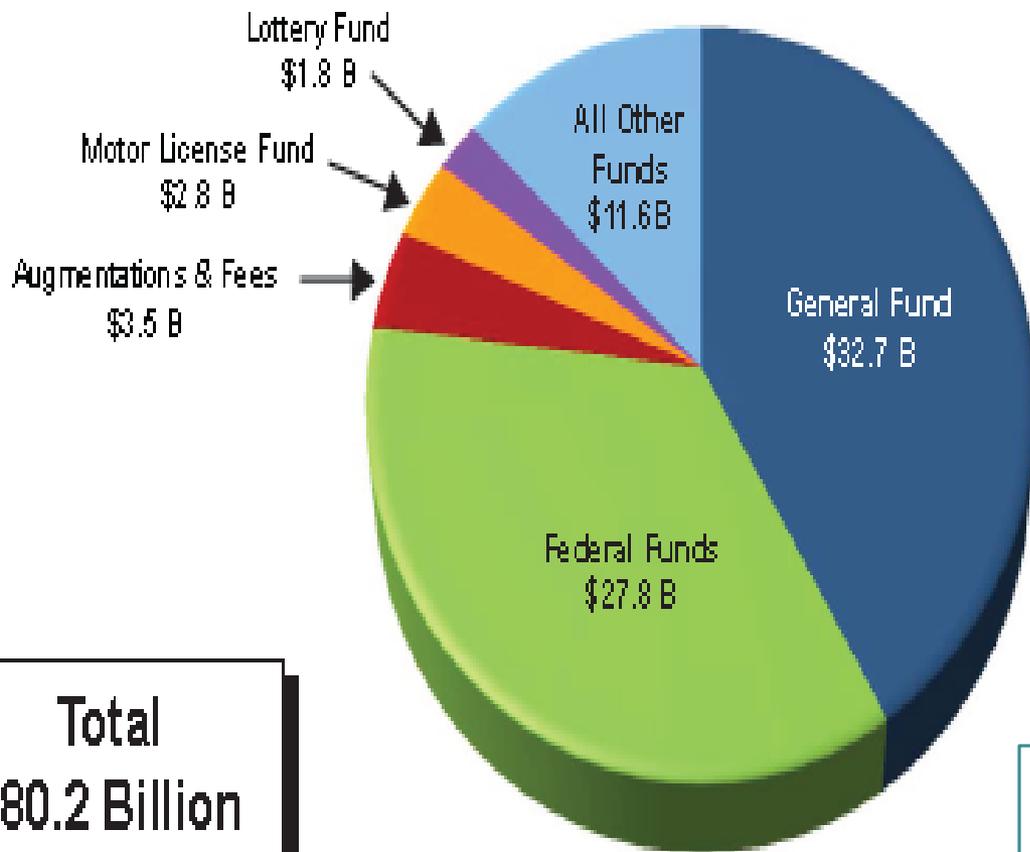


Agenda

- Budget in Brief
- Liquid Fuels Distributions
- 2016 Construction Projects
- 2017-2019 Projects in Design
- County Budgets
- County Transformation
- P3 – Public/Private Partnership for Bridges - update
- County Maintenance Overview

Total Operating Budget

2016-17 Budget Overview



Total Operating Budget

**Total
\$80.2 Billion**

\$7.84 Billion PennDOT's Total Budget

Motor License Fund

INCOME

(Dollars in Millions)



Liquid Fuels Tax - \$1,766

Licenses and Fees - \$1,003

Other - \$47

Total Income.....	\$2,816
Beginning Balance....	34
TOTAL.....	\$2,850

OUTGO

(Dollars in Millions)



Highways & Bridges - \$1,282

State Police - \$814

Local Subsidy - \$328

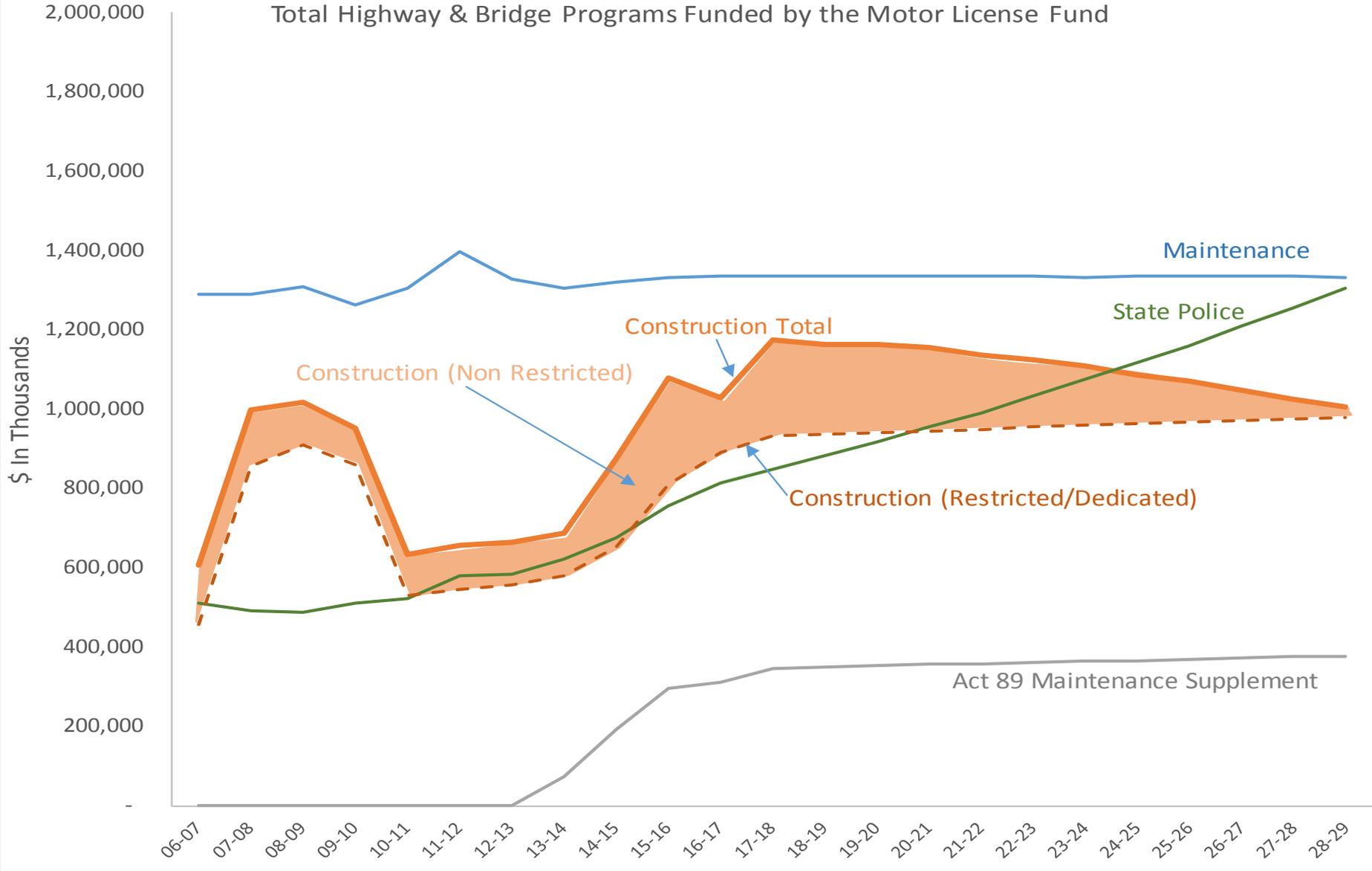
Other - \$207

Licensing & Safety - \$158

Debt Service - \$43

Total Outgo.....	\$2,832
Ending Balance.....	18
TOTAL.....	\$2,850

Exhibit 1-1
PennDOT Present Funding Forecast
Total Highway & Bridge Programs Funded by the Motor License Fund

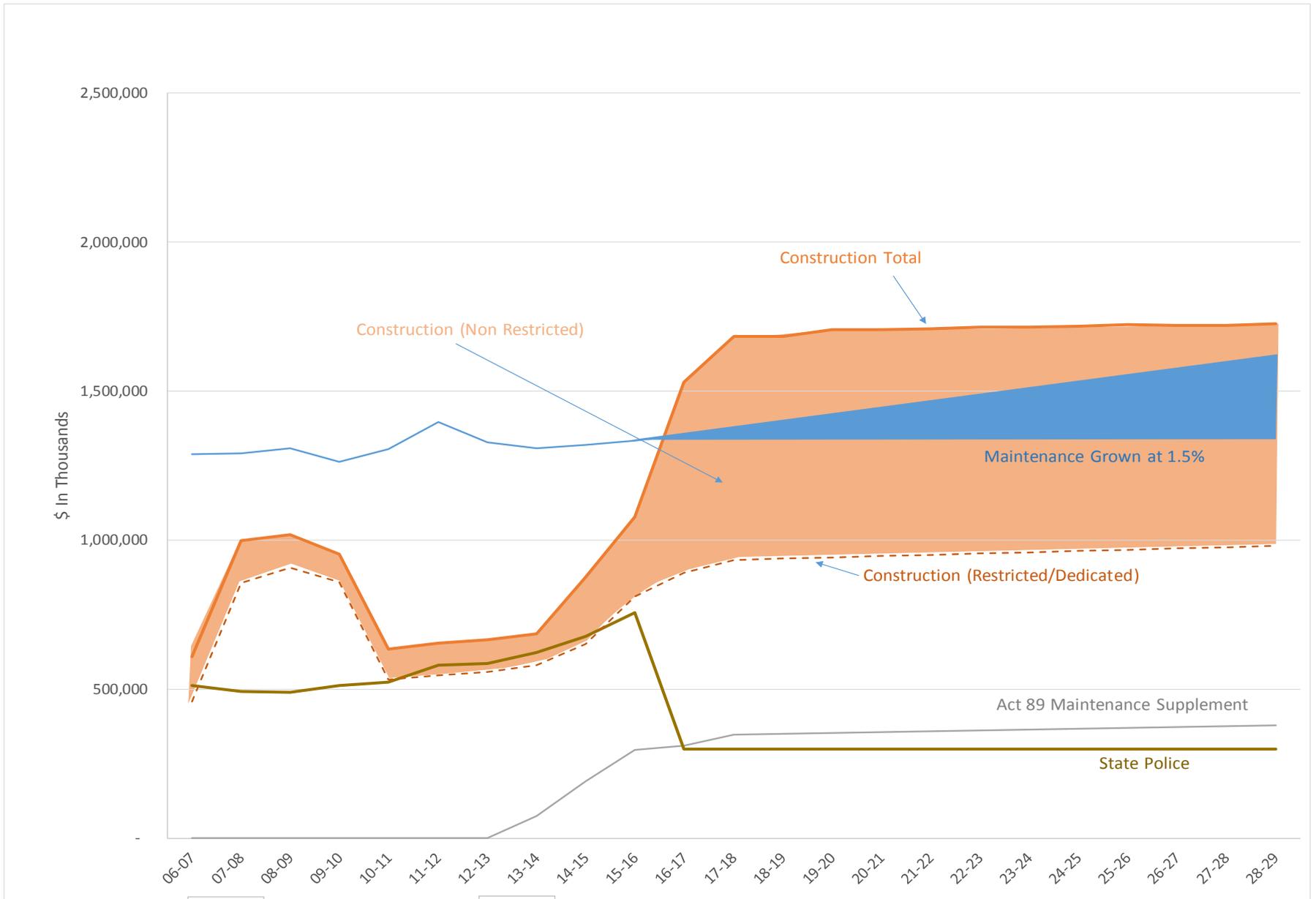


*07-08 Act 44 of 2007

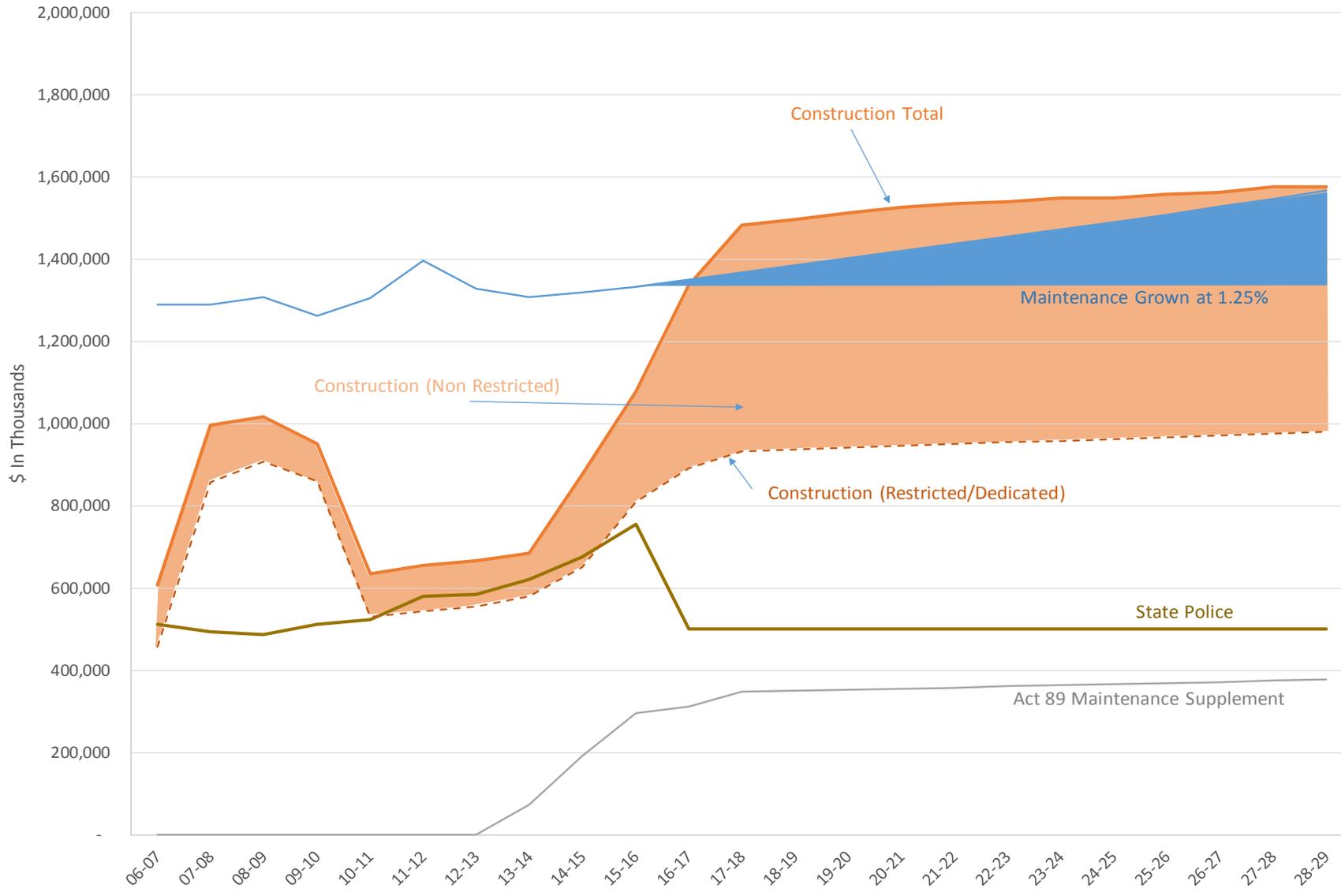
*13-14 Act 89 of 2013

New 12 Year Program FY 17-28

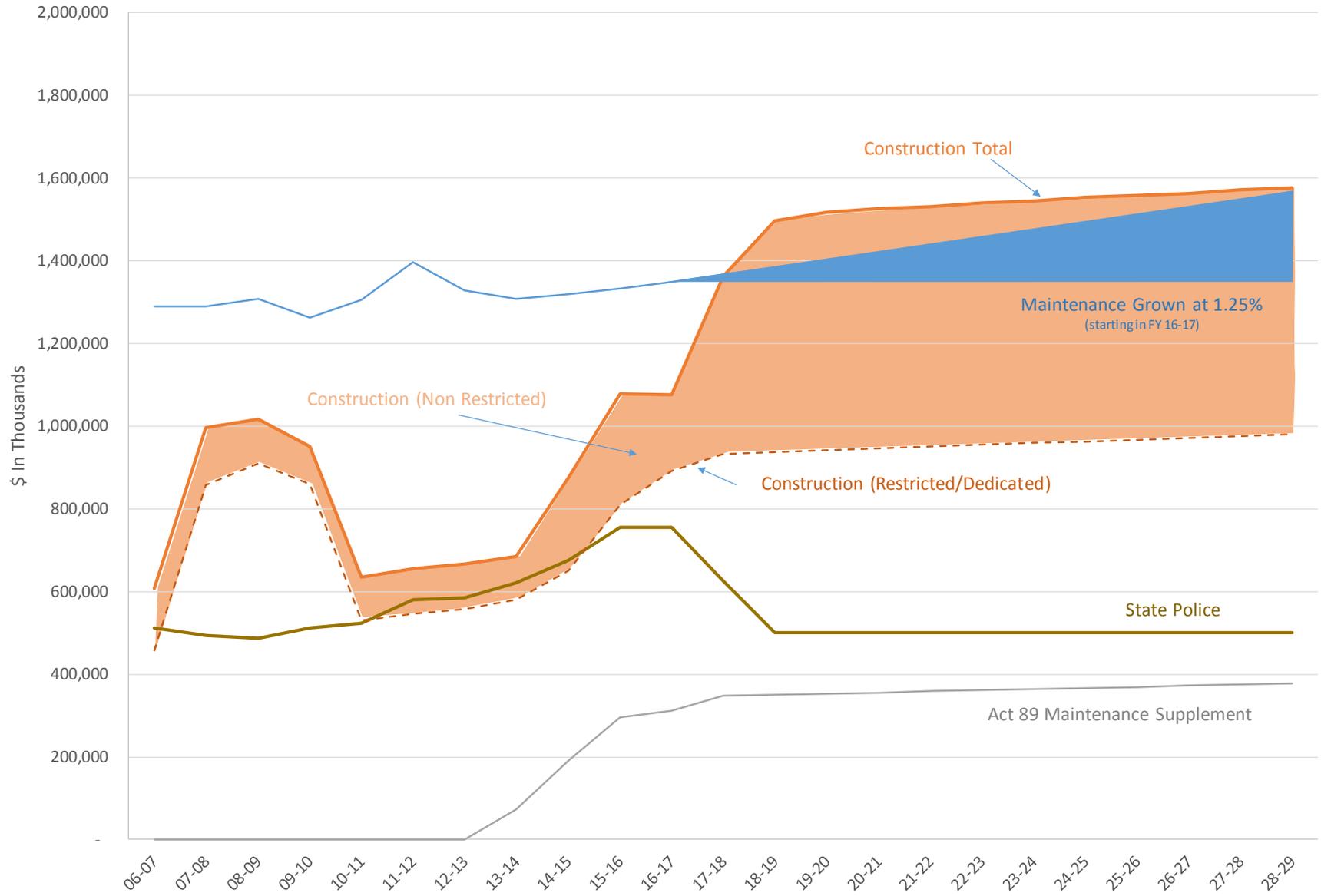
PennDOT Present Funding Forecast
Assuming \$300 Million Cap on the State Police in the MLF
Total Highway & Bridge Programs Funded by the Motor License Fund



PennDOT Present Funding Forecast
Assuming \$500 Million Cap on the State Police in the MLF
Total Highway & Bridge Programs Funded by the Motor License Fund



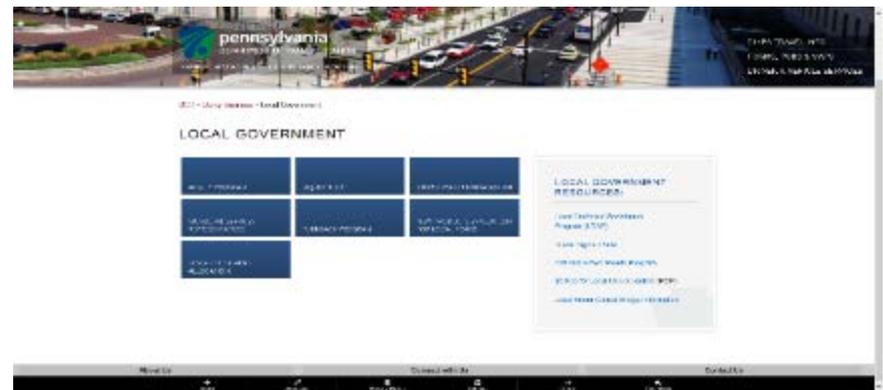
PennDOT Present Funding Forecast
Assuming \$755, \$625, and \$500 Million Cap on the State Police in the MLF
Total Highway & Bridge Programs Funded by the Motor License Fund



Liquid Fuels Payments

- 2013 - Before Act 89 - \$320.8 million
- 2015 - \$381 million
- 2016 - \$445.3 million
- 16% increase, \$64 million additional funds (15/16)
- 120,039 miles of public roads; 72,759 owned by municipalities
- For the complete list of local payments, visit the “Municipal Liquid Fuels Program” Local Government page.

www.penndot.gov
Doing Business
Local Government



▶ Armstrong County

- 2016 - \$4,301,817.93.
- 2015 - \$3,686,556.56
- Percent increase – 16.7%
- Miles of roads – 1,010.92



▶ Outreach 2016



Sunnyside Bridge #2

- ECMS #83200
- SR 85
- Armstrong County
– Valley Twp.
- Resurfacing/Culvert
- Cost: \$3,081,977
- Plum Contracting, Inc.
- Temp Signals
- Weekend Detour



Market Street Resurfacing

- ECMS #104690
- SR 1038
- Armstrong County
 - Kittanning Borough
- Resurfacing/
Overlays
- Cost: < \$500,000
- Let: 4-7-16



PA 66 Concrete Repair

- ECMS #91278
- SR 66
- Armstrong County
 - Manor Twp
- Concrete Repair
- Cost: \$1 to \$2.5 million
- Let: 4-7-16



Dayton South PM

- ECMS #99526
- SR 839
- Armstrong County
 - Dayton
- Resurfacing
- Cost \$2.5 to \$5.0 million
- Let: 4-21-16



Hot In Place Recycling

- ECMS #105072
- SR 1038
- Armstrong County
- Resurfacing/Overlays
- Cost: < \$1 million
- Let: 4-7-16



2016 Guiderail – 5 Contracts

- ECMS #105757 - Armstrong County
 - ECMS #105758 - Butler County
 - ECMS #105759 - Clarion County
 - ECMS #105760 - Indiana County
 - ECMS #105761 - Jefferson County
-
- Let: 5-19-16
 - Completion: 6-30-17



2016 Small Paint

- ECMS #105762
- Various
- District Wide
- Miscellaneous Paint
- Cost: <\$200,000
- Let: 5-19-16

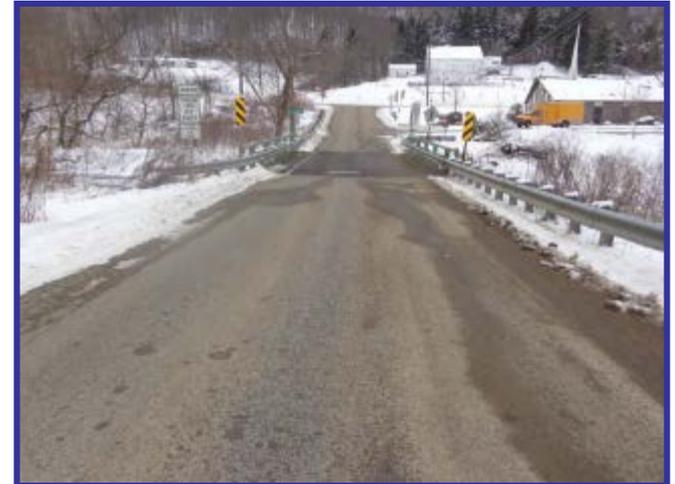


▶ 2017-2019 Projects in Design



Laurel Point Bridge – P3

- Route 2057
- Bridge Replacement
- Parks Township
- Carnahan Run
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



▶ Claypoole Road No. 3 Bridge – P3

- Route 3009
- Bridge Replacement
- West Franklin Township
- Tributary to Buffalo Creek
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



➤ Carnahan Run No. 1 Bridge – P3

- Route 66
- Bridge Replacement
- Parks Township
- Carnahan Run
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



➤ Rural Valley No. 3 Bridge – P3

- Route 2001
- Bridge Replacement
- Rural Valley Borough
- Cowanshannock Creek
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



➤ Brick Church No. 1 Bridge – P3

- Route 2005
- Bridge Replacement
- Plumcreek Township
- North Branch of Cherry Run
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



Roaring Run Bridge – P3

- Route 2047
- Bridge Replacement
- Kiskiminetas Township
- Roaring Run
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



Briar Hill Bridge – P3

- Route 3017
- Bridge Replacement
- East Franklin Township
- Route 422
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



Eddyville Bridge #2

- Route 1021
- Bridge Replacement
- Redbank Township
- Pine Run
- Detour
- Construction in 2017
- Construction Estimate:
\$1M - \$2.5M



Guffy Run and Hungry Hollow #1 Bridges

- Routes 66 and 2057
- Bridge Replacements
- Parks Township
- Guffy Run
- Route 66 – Phased
- Route 2057 - Detour
- Construction in 2017
- Construction Estimate:
\$2.5M - \$5M



Guffy Run Bridge



Hungry Hollow Bridge

Echo Bridge

- Route 1037
- Bridge Replacement
- Wayne Township
- South Fork of Pine Creek
- Detour
- Construction in 2017
- Construction Estimate:
\$1M - \$2.5M



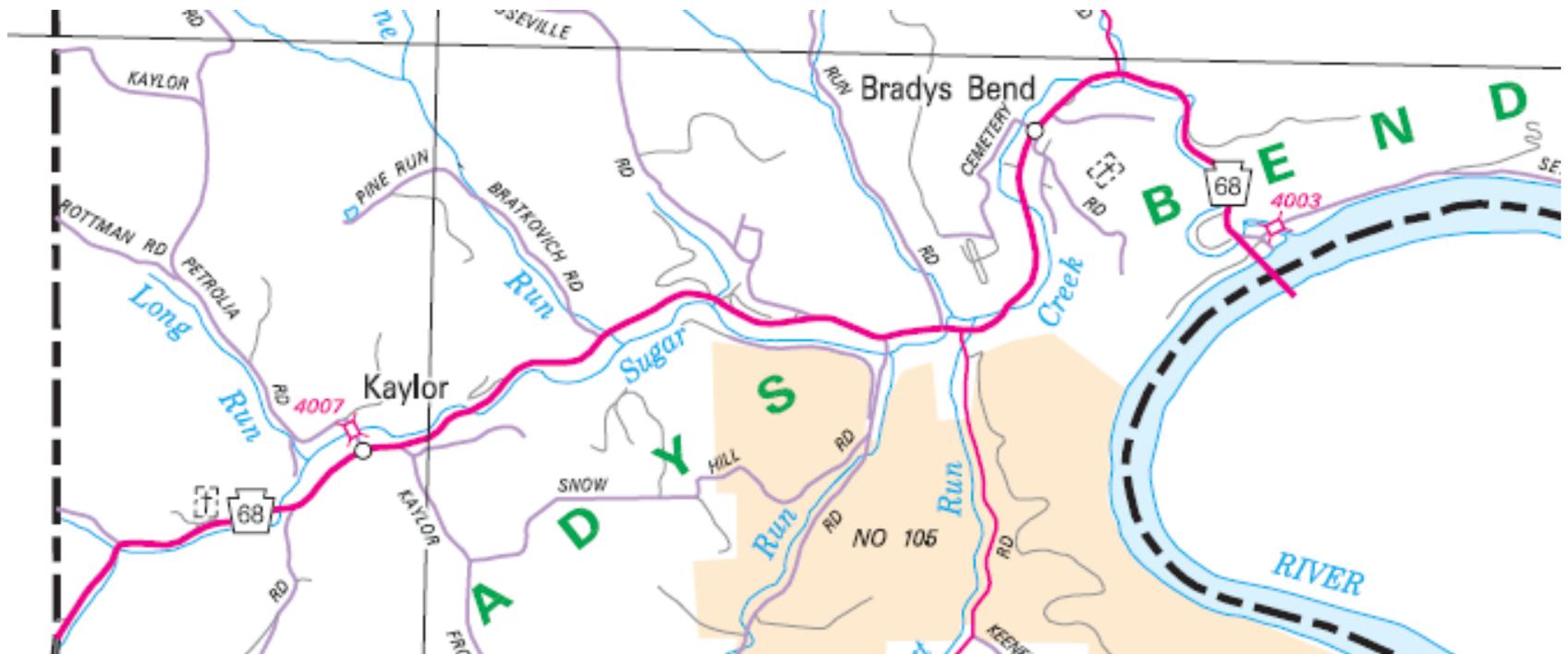
Oakland Cemetery Bridge

- Route 66
- Bridge Replacement
- Bethel and Manor Townships
- Crooked Creek
- Phased Construction w/ 1-2 Week Detour
- Construction in 2017
- Construction Estimate: \$2.5M - \$5M



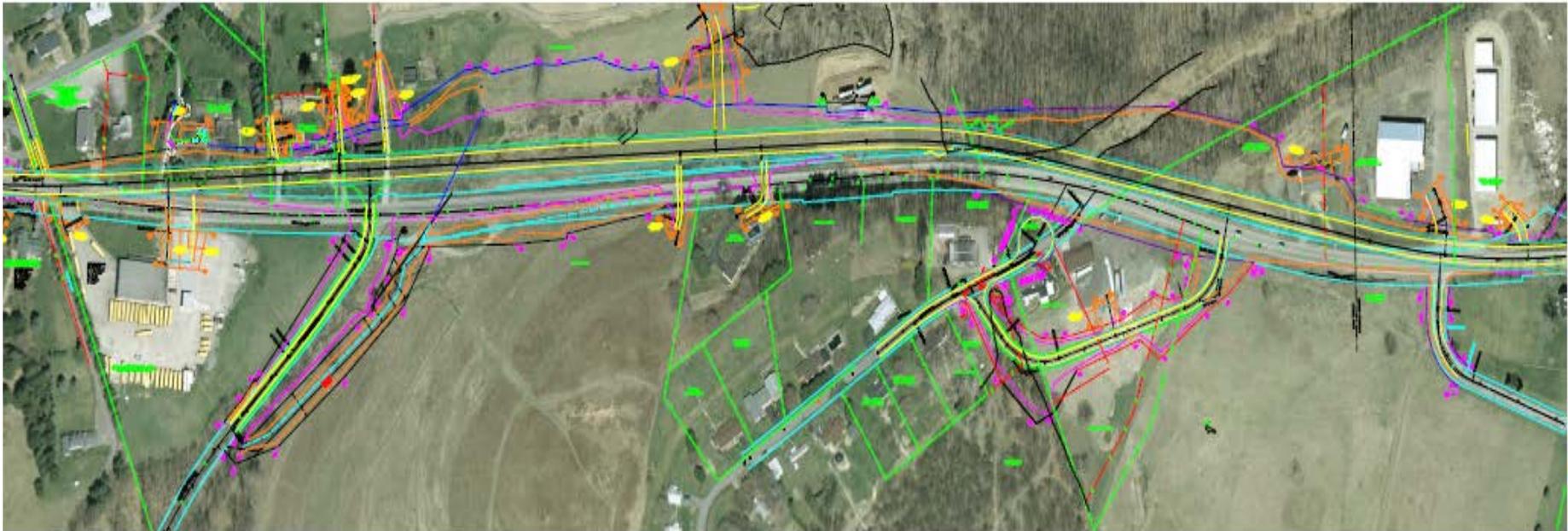
East Brady West Resurfacing

- Route 68 – Resurfacing
- Bradys Bend Township
- Construction in 2017
- Construction Estimate: \$2.5M - \$5M



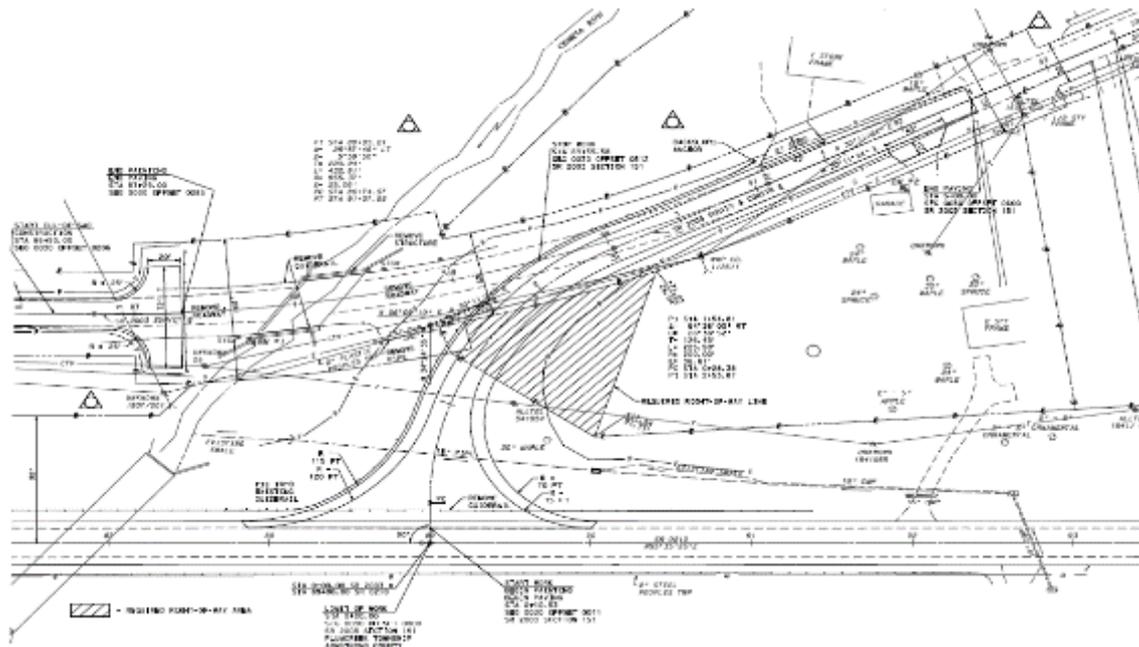
Wray Road Cut

- Route 422 - Safety Improvement
- Kittanning and Manor Townships
- Construction in 2017
- Construction Estimate: \$10M - \$12.5M



SR 2003 Cessna Run Bridge

- Route 2003 - Bridge Removal over Cessna Run
- Plumcreek Township
- Partial Detour/Partial Phased Construction
- Construction in 2018
- Construction Estimate: \$1M - \$2.5M



Upper Mateer Bridge#3

- Route 2036
- Bridge Replacement
- Parks Township
- Carnahan Run
- Detour
- Construction in 2018
- Construction Estimate:
\$1M - \$2.5M



Jackson Road Bridge

- Route 2050
- Bridge Replacement
- Kiskiminetas Township
- Rattling Run
- Detour
- Construction in 2018
- Construction Estimate:
\$500K - \$1M



Bradys Bend Bridge #16

- Route 4003
- Bridge Replacement
- Bradys Bend Township
- Sugar Creek
- Phased Construction
 - (Off Season)
- Construction in 2019
- Construction Estimate:
\$1M - \$2.5M



PA 56 Apollo Group Bridges

- Route 56
- Bridge Replacements
- Kiskiminetas Township and Apollo Borough
- Tributary to Kiskiminetas River and Sugar Hollow Run
- Detour (14-20 Day per Bridge)
- Construction in 2019
- Construction Estimate: \$5M - \$7.5M



Shelocta West Resurfacing

- Route 422 - Resurfacing
 - Elderton Borough and Plumcreek Township, Armstrong County
 - Shelocta Borough and Armstrong Township, Indiana County
- Construction in 2019
- Construction Estimate: \$2.5M - \$5M



▶ Kittanning Elementary School Intersection

- Route 422 - Safety Improvement
- Kittanning Township
- Construction in 2020, Not Fully Funded
- Construction Estimate: \$7.5M - \$10M



Goheenville Dip

- Route 28 - Safety Improvement
- Boggs and Wayne Township
- Construction in 2020, Not Fully Funded
- Construction Estimate: \$10M - \$12.5M



Margaret Road Intersection

- Route 422 - New Alignment
- Plumcreek Township
- Construction in 2020, Not Fully Funded
- Construction Estimate: \$20M - \$25M



Craigsville Bridge

- Route 4035
- Bridge Replacement
- West Franklin Township
- Buffalo Creek
- Construction Not Funded
- Construction Estimate:
\$2.5M - \$5M



Stitts Run Bridge No. 1

- Route 2066
- Bridge Replacement
- Parks Township
- Stitts Run
- Engineering in 2017
- Phased Construction
- Construction Not Funded
- Construction Estimate:
\$1M - \$2.5M



Mount Zion Church Bridge

- SR 1029
- Bridge Replacement
- North Fork of Pine Creek
- Boggs Township
- Detour
- Construction in 2017
- Department Force Bridge



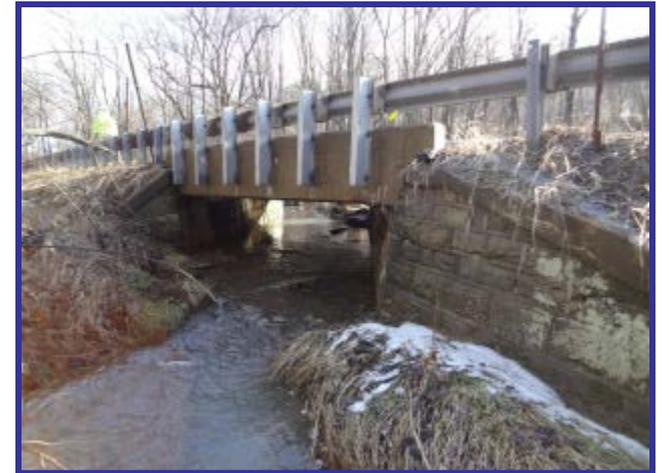
Banjo Road Bridge

- SR 1020
- Bridge Replacement
- Branch of Pine Creek
- Wayne Township
- Detour
- Construction in 2018
- Department Force Bridge



Fagley Run Bridge #2

- SR 2027
- Bridge Replacement
- Fagley Run
- South Bend Township
- Detour
- Construction in 2019
- Department Force Bridge



Future Local Projects

- T-720 Hoosicks Bridge
 - Bridge Replacement
 - Cowanshannock Township
 - Construction in 2017
- T-763 West Hills Bridge
 - Bridge Rehabilitation
 - East Franklin Township
 - Construction in 2020

► Maintenance



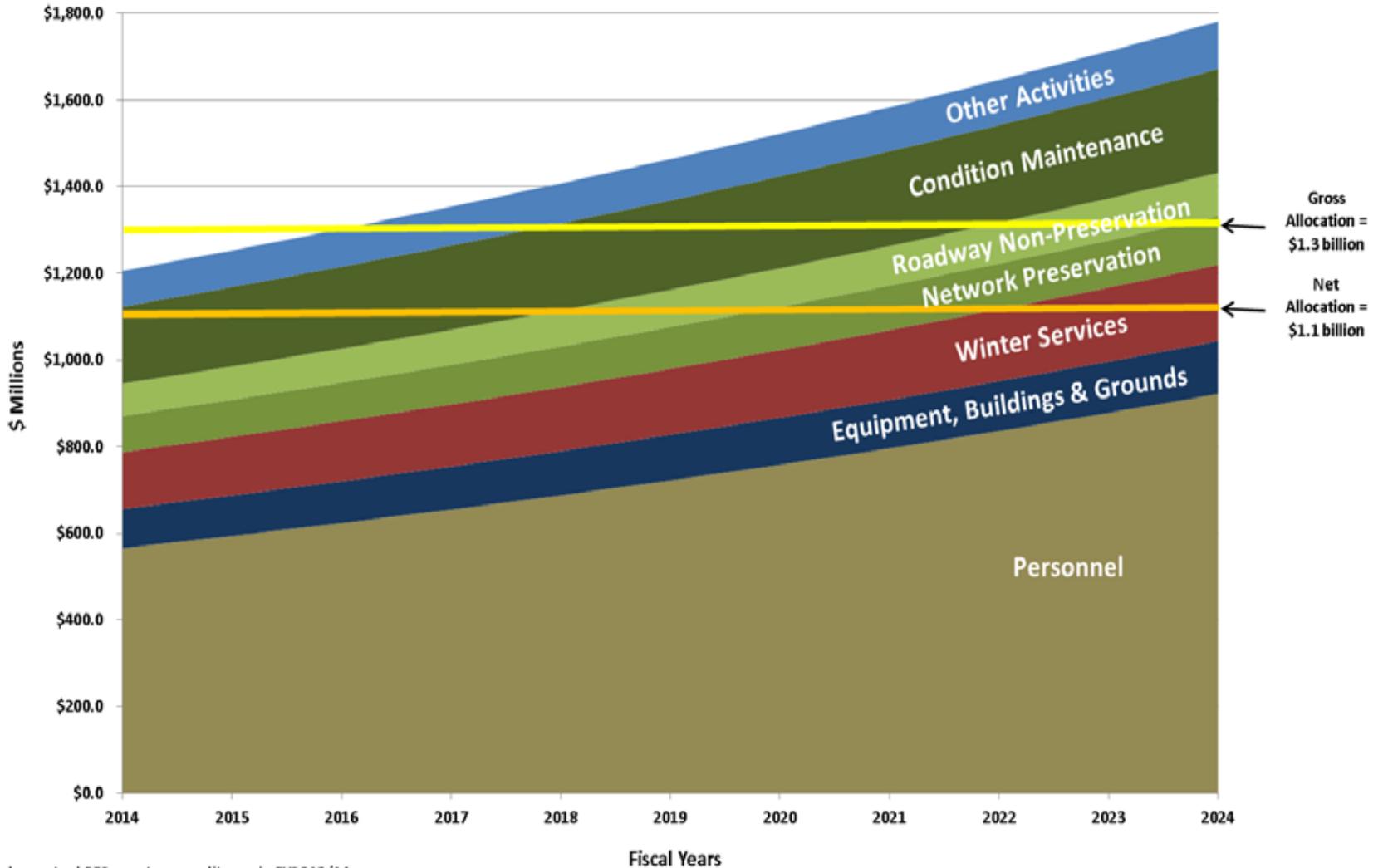
Maintenance Allocation

MAINTENANCE ALLOCATION

COUNTY	12-13 Allocation (millions)	13-14 Allocation (millions)	14-15 Allocation (millions)	15-16 Allocation (millions)	\$ Increase (millions)	% Increase
Armstrong	\$20.4	\$19.9	\$20.7	\$20.7	\$0.0	0.00%
Butler	\$23.4	\$23.0	\$23.9	\$24.6	\$0.7	2.4%
Clarion	\$13.8	\$13.6	\$14.4	\$14.7	\$0.3	2.1%
Indiana	\$22.2	\$21.5	\$22.1	\$22.7	\$0.6	2.7%
Jefferson	\$16.5	\$16.3	\$16.7	\$17.1	\$0.4	2.4%
District Total	\$96.3	\$94.3	\$97.7	\$99.8	\$2.1	2.15%

2015-2016 Reflects a 2.15% increase

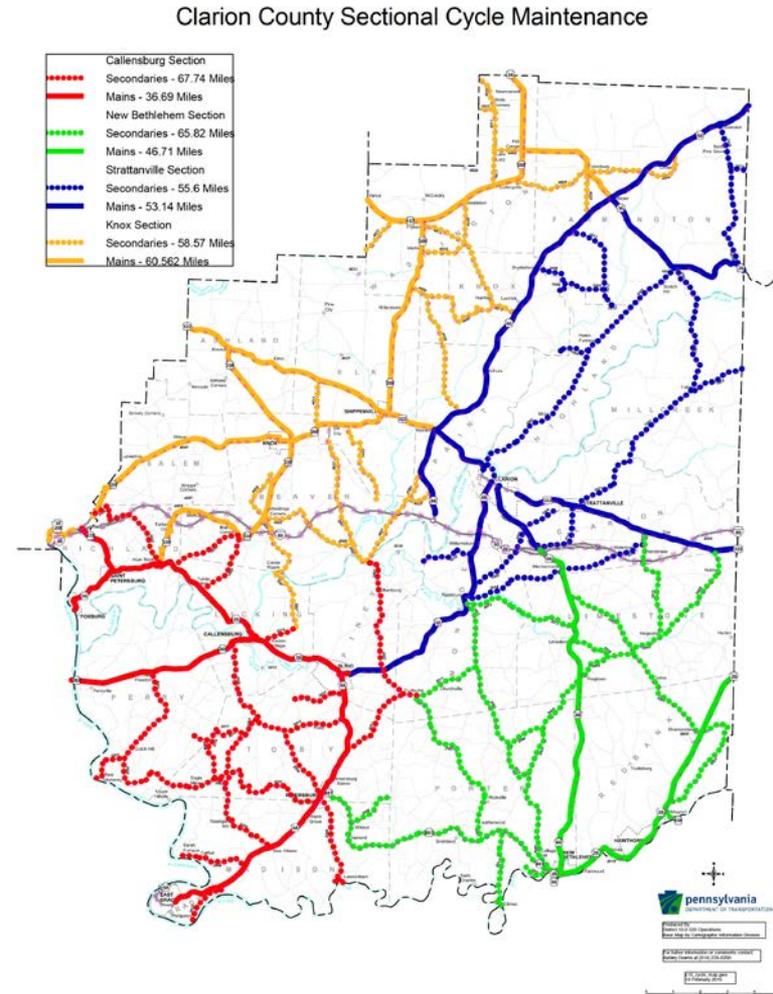
Projected Net County Funding and Expenditures¹: 2014 to 2024 All Counties



¹ Based on actual 582 county expenditures in FY2013/14

County Budgets

- Planning process – sectional cycle adjustments
- Preservation – new products and processes to stretch the dollar



County Transformation

- First cut
 - Peer County Comparisons
 - Winter staffing and snow routes
 - Department force vs Contract work



2016 County Transformation

District Visits

- Budget, Winter, Equipment, Highways, Bridges
- Best Practices
- Opportunities for improvement
- Improved tools



County Transformation

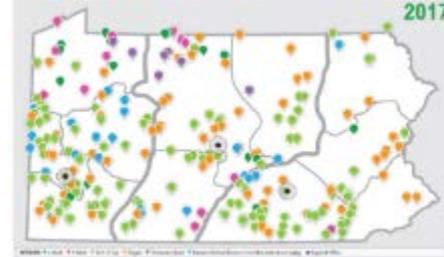
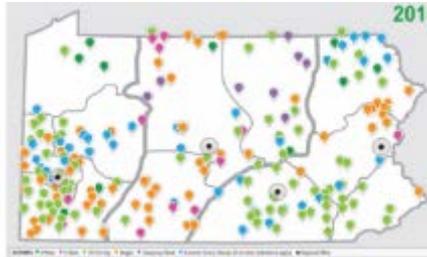
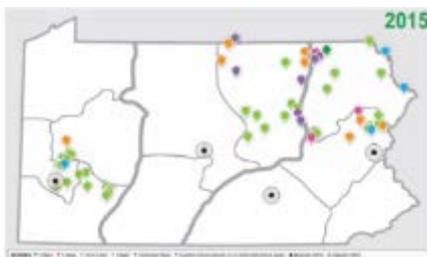
- County Accreditation
 - Ensure data is applied to apples
 - Baseline of production standards and cost effectiveness
 - Measurement systems and corrective action

Production



RBR Project: Overview

- Rapid Bridge Replacement Program (RBRP) is the first P3 construction project for PennDOT
 - Project was approved by the Commonwealth's Public Private Transportation Partnership Board in September 2013
- Project includes the design, demolition, construction, financing and routine maintenance/ lifecycle maintenance for **558 structurally deficient bridges** across Pennsylvania (geographically dispersed)



RBR Project: Why P3?

- Accelerate the replacement of SD bridges
- Maximize efficiencies to deliver more projects
- Minimize the impact to traveling public
- Allocate risks to the party best able to manage them
- Establish P3 as a viable way to get projects done



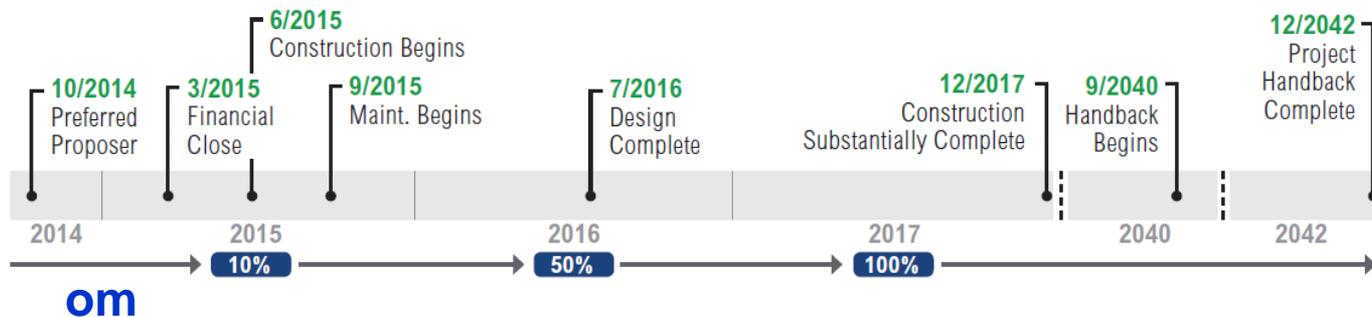
RBR Project: Meet the Team

- **Development Entity** – Plenary Walsh Keystone Partners
- **Lead Construction Firm** – Walsh Granite JV
- **Lead Design Engineering Firm** – HDR
- **Lead Maintenance Firm** – Walsh Infrastructure Management (WIM)
- **Construction Quality Acceptance Firm** – TRC



RBR Project: P3 Arrangement

- Transaction Highlights:
 - 1 DBFM Contract
 - PennDOT maintains ownership, but the Development Entity is responsible for maintaining each bridge for 25 years after replacement
 - 28 Year Contract (w/ 25 year maintenance term per bridge)



RBR Project: “Game Changer”

- First multi-asset, multi-location P3 project to close in US
- Fastest executed P3 procurement in the US with a 12 month timeline from RFQ issuance to commercial close, and 15 months from RFQ to financial close
- Includes the largest Private Activity Bond financing of a transportation P3 in US history with \$721.5 million
- Shares the permitting risk on 558 individual projects (SEP15)



RBR Project: 2015 Status

- 74 Construction NTPs issued
- 47 bridges replaced and open to traffic
- 3 bridges with construction activity continuing
- Bridges built in 6 PennDOT Districts
- 6,250 Design submissions
- 4,713 submissions accepted/approved

RBR Project: 2016 Effort

- 260 starts
- 200 to finish in 2016
- PPC overlays
- Some new approaches

RBR Project: At the End of the Day...

Total number of bridges:	558
Culverts:	120
Single Span:	411
Multi-Span:	27
Average new bridge length:	60' (10' longer than existing)
Number of bridges -100':	496
Number of bridges +100':	62
Number of steel bridges:	12 (number could change)
417 bridge projects will utilize prestressed concrete beams	
2,291 total estimated number of prestressed concrete beams	
144,490 Total LF of prestressed concrete beams (over 27 miles)	
57,000 Tons of material (114 million lbs.)	
28,000 CY of concrete	
3.7 mil lbs. of rebar (1,850 Tons)	
6.1 mil LF of steel strand (1,155 Miles)	

RBR Project: PWKP Website



Who is Plenary
Walsh Keystone
Partners?

What Is The
PRB Replacement
Project?

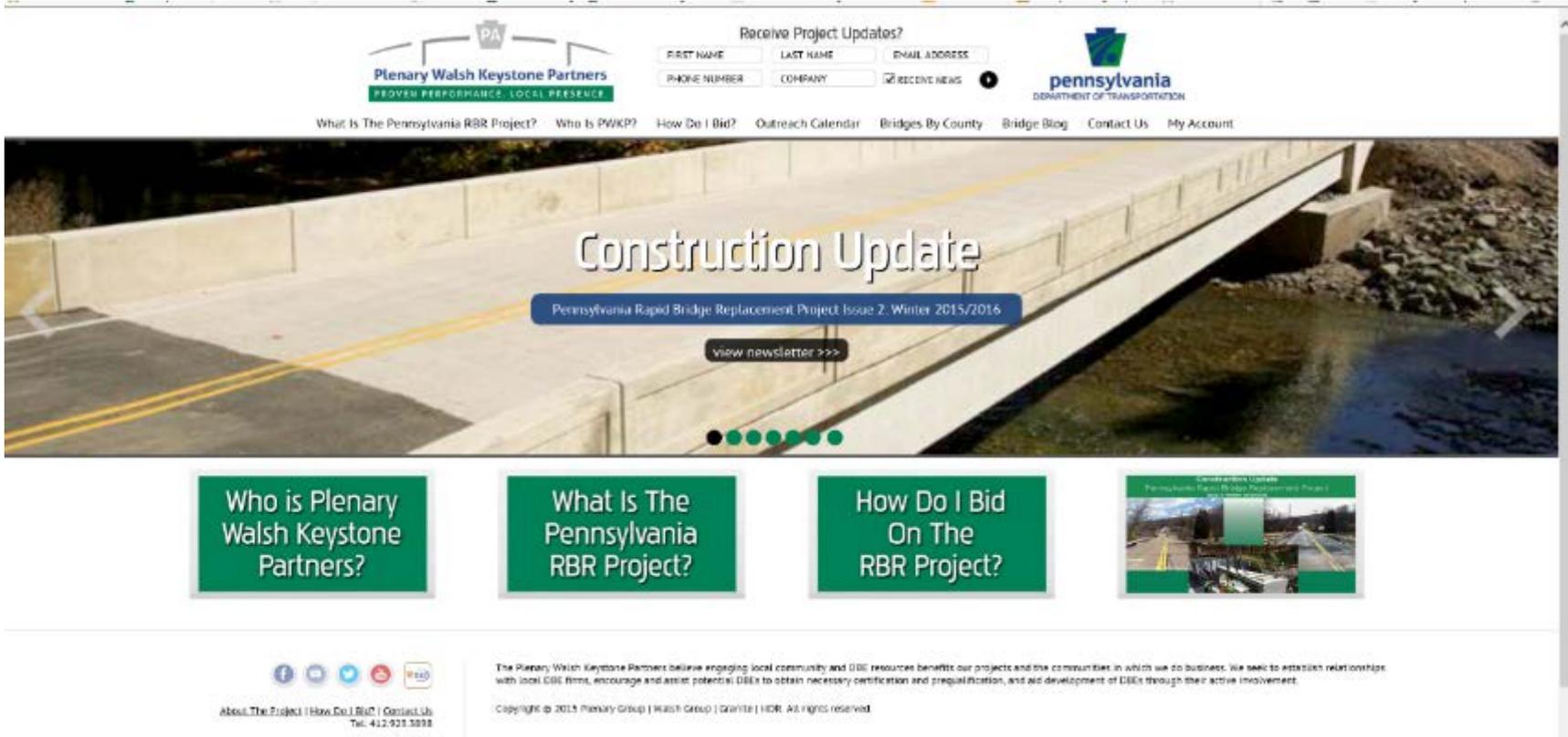
How Do I Bid On
The PRB Replace-
ment Project?

View The PRBR
Project Outreach
Calendar

www.PARapidBridges.com

<https://www.youtube.com/watch?v=F4ut-Jb9bwU>

P3 Website



<http://www.parapidbridges.com/>

▶ Armstrong County Maintenance



Armstrong County Maintenance



Andrew Firment
Armstrong County
Maintenance
Manager



2016 Armstrong County Outreach

TOPICS OF DISCUSSION FOR TODAY

- Armstrong County Overview
- Winter Wrap-up
- 2016 Summer Plans
- 2016 Construction Projects
- PENNDOT Equipment Auctions
- Agility

2016 Armstrong County Outreach



2016 Armstrong County Outreach



Winter

2016 Armstrong County Outreach

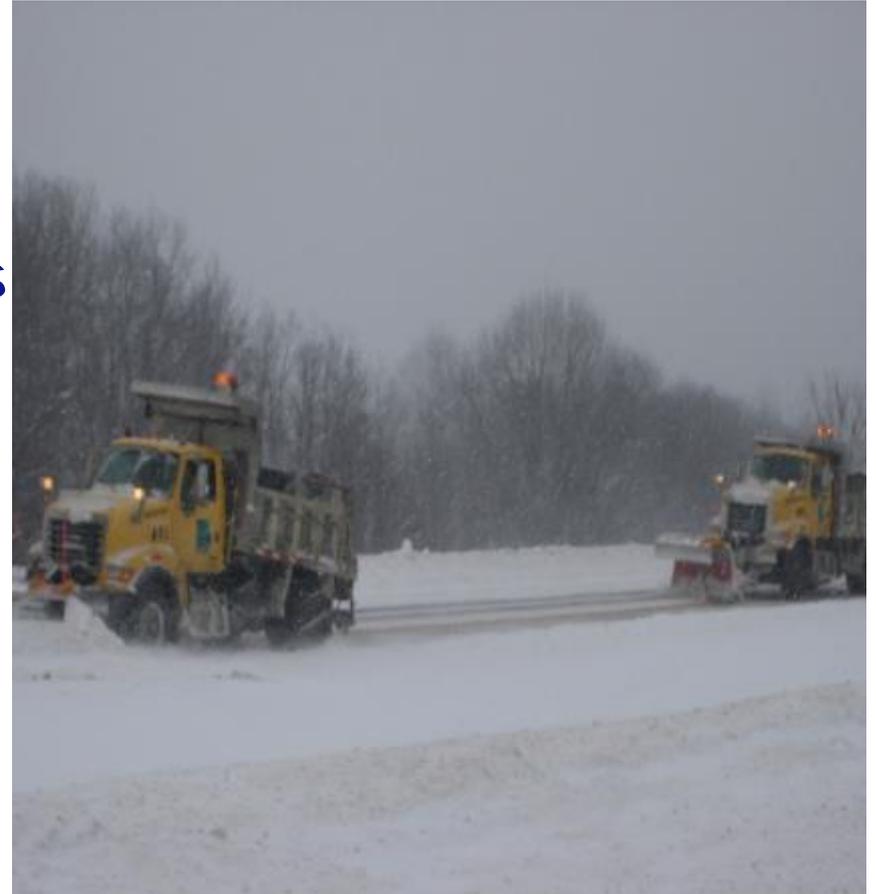
2015-2016 Winter Budget

- Winter Maintenance Budget \$3,272,000
- Materials Budget \$ 1,292,394
- 7 Municipal Agreements totaling \$43,954.40

2016 Armstrong County Outreach

Snow Lane Miles

- 188 Interstate look a likes
- 17 interchange
- 1,232 non interstate
- Total of 1,437 SLM



2016 Armstrong County Outreach

14-15 Material Usage

- Salt – 20,463.245 Tons
- Skid – 19,975.57 Tons
- Brine – 271,958.740 Gal

15-16 Material Usage

- Salt -8,559.106 Tons
- Skid -10,422.153 Tons
- Brine -168,803.942 Gal

2016 Armstrong County Outreach

How are we doing?

After Storm Surveys

Out of (5 points):

Winter of 2015-2016 =
4.07



2016 Armstrong County Outreach

2015 - 2016 Winter Municipal Agreements

MUNICIPALITY

MILES COVERED

<i>APOLLO</i>	<i>1.274</i>
<i>FREEPORT</i>	<i>3.386</i>
<i>GILPIN</i>	<i>5.16</i>
<i>KISKI</i>	<i>11.700</i>
<i>MADISON</i>	<i>6.016</i>
<i>WAYNE</i>	<i>2.406</i>
<i>WEST FRANKLIN</i>	<i>8.218</i>
TOTALS	38.16

2016 Armstrong County Outreach

2016 Summer Planned Maintenance Activities



Armstrong County Five Year Cycle Map

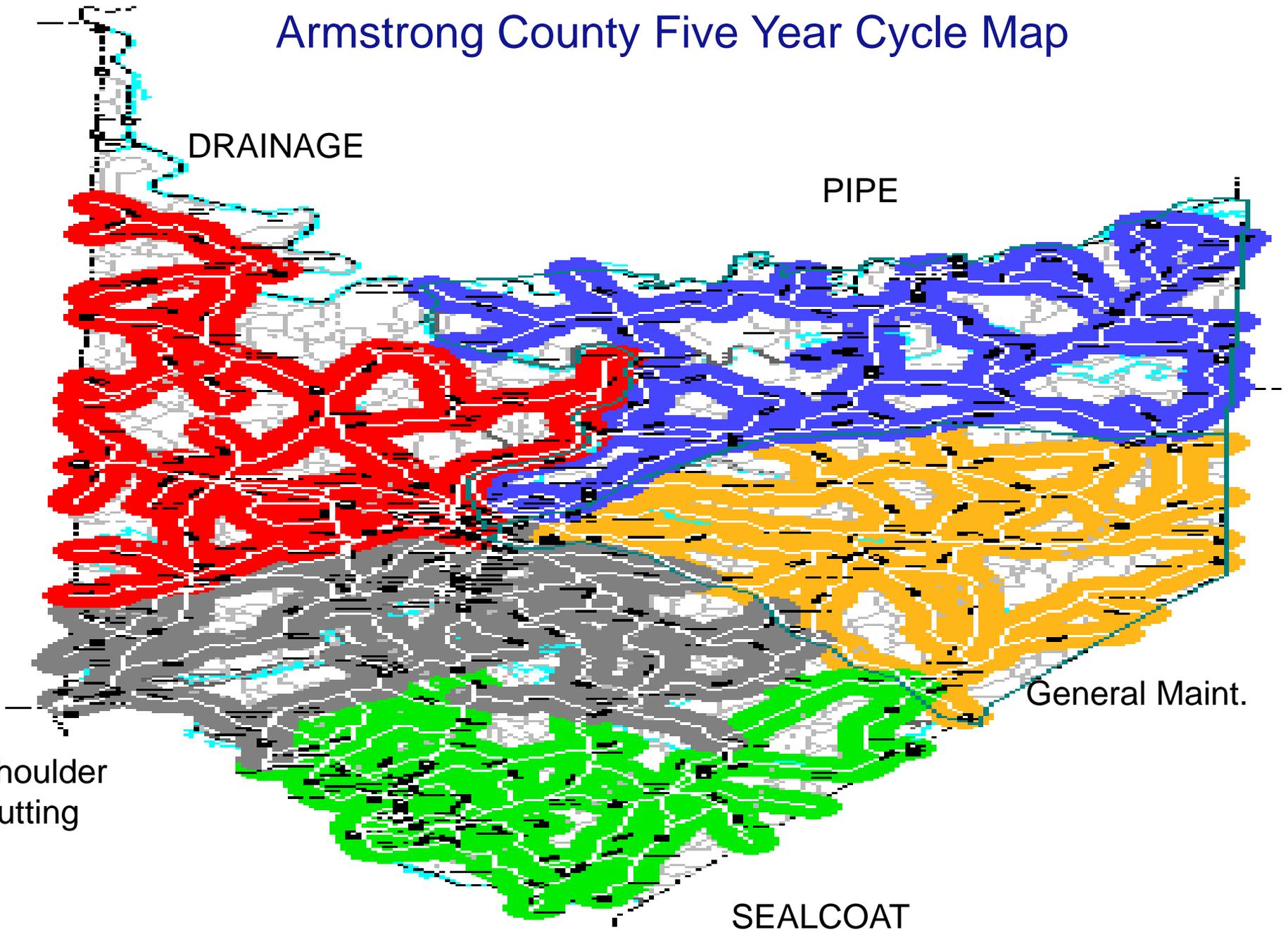
DRAINAGE

PIPE

General Maint.

SEALCOAT

Shoulder
Cutting



2016 Armstrong County Outreach

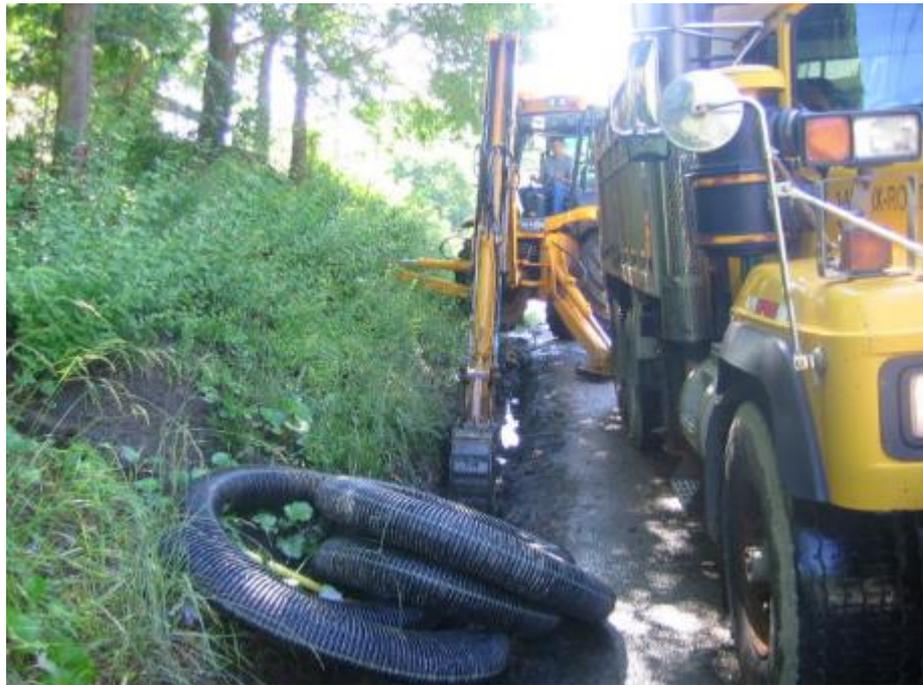
- Quadrant 1 – 132.14 Miles - Pipe
- Quadrant 2 – 134.11 Miles – General Maintenance
- Quadrant 3 – 129.89 Miles - Sealcoat
- Quadrant 4 – 132.46 Miles – Shoulder Cutting
- Quadrant 5 – 127.74 Miles - Drainage

2016 Armstrong County Outreach

1290 Feet of Pipe Replacements



2016 Armstrong County Outreach



9,449 Feet of Underdrain

2016 Armstrong County Outreach

18,822 Feet of Tail Ditch Cleaning



2016 Armstrong County Outreach

306 Miles of Shoulder Cutting and Grading



2016 Armstrong County Outreach

**25 Tons of
Spray
Patching**



2016 Armstrong County Outreach



**456,506.44 Gallons of Material
For Seal Coat**

2016 Armstrong County Outreach



65.7 Miles of Crack Sealing

2016 Construction Projects

- 1038 Streetscape - Market Street Kittanning
- 66-PA 66 Rehab
- 839 Dayton South PM
- 1038 Hot In Place - Courthouse to SR 85

2016 Armstrong County Outreach

- **Equipment Auctions:**

Fleet Management Division (Harrisburg)

Municipal: April 20, 2016

Public: May 24, 2016

Western Pennsylvania Training Facility
(Cheswick)

Municipal: August 24, 2016

Public: September 27, 2016

2016 Armstrong County Outreach

AGILITY

- **Kittanning Township Fire Hall**
 - Use of facility for meetings
 - Seal coat parking lot
- **Bethel Township**
 - Mowing
 - Pipe replacement
- **Worthington Borough**
 - Sweeping
 - Mowing
- Possible opportunities are Available
 - County Contacts: 724-543-1811
 - ✓ **Ken Campbell**
 - ✓ **Luke Crawford**
 - ✓ **Brent Piccola**



▶ 2016 Armstrong County Outreach



**Seasons of
Maintenance**

QUESTIONS?

