



PENNSYLVANIA TURNPIKE COMMISSION

Matthew Burd, P.E. – Assistant Chief Engineer – Construction
ACEC-Central

October 16, 2024

Recap from Last Year



20



17

Capital Plan Updates

Insight Adviser

No selections applied

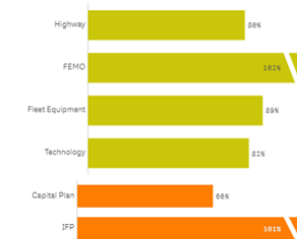
Bookmarks

Sheets

Duplicate

Dashboard

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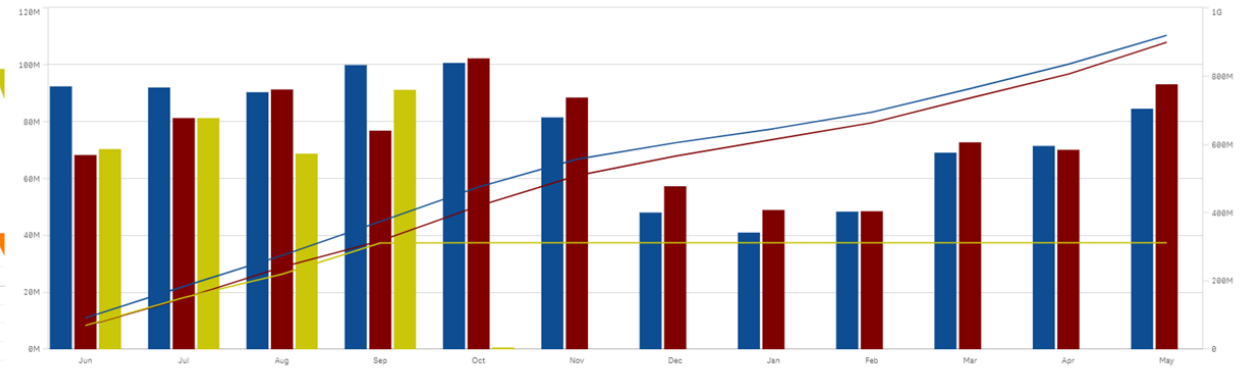


CP Total Budget	919,013,835
CP YTD Actuals	312,135,544
CP YTD Budget	475,055,876
CP YTD Dif	-162,920,331

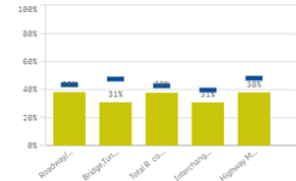
IFP Total Budget	275,410,888
IFP YTD Actuals	115,945,114
IFP YTD Budget	114,764,537
IFP YTD Dif	1,190,578



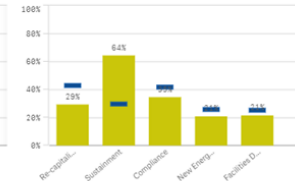
Capital Plan



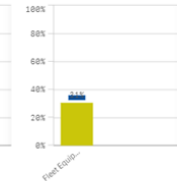
Highway



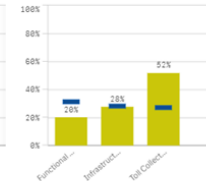
FEMO



Fleet



Technology



IFP



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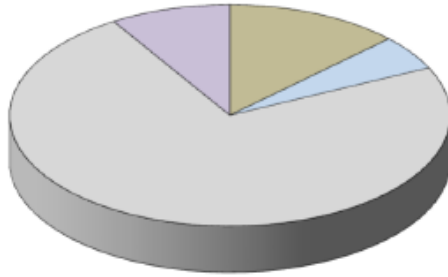
Capital Plan Updates

Fiscal Year (FY) Runs June 1 to May 31

FY 25 Trending to an Underspend

FY 26 Looks to be similar to 2025, No significant increase

What Impacts the Plan?



- ROADWAY & MISC
- BRIDGE
- TOTAL RECONSTRUCTION
- INTERCHANGE
- FACILITIES
- INDEPENDENTLY FUNDED

CY25 Letting Schedule

ROADWAY & MISC	\$57,926,739.00	12.8%
BRIDGE	\$23,004,602.00	5.1%
TOTAL RECONSTRUCTION	\$330,426,016.00	73.2%
INTERCHANGE	\$39,973,265.00	8.9%
FACILITIES	\$0.00	0.0%
INDEPENDENTLY FUNDED	\$0.00	0.0%

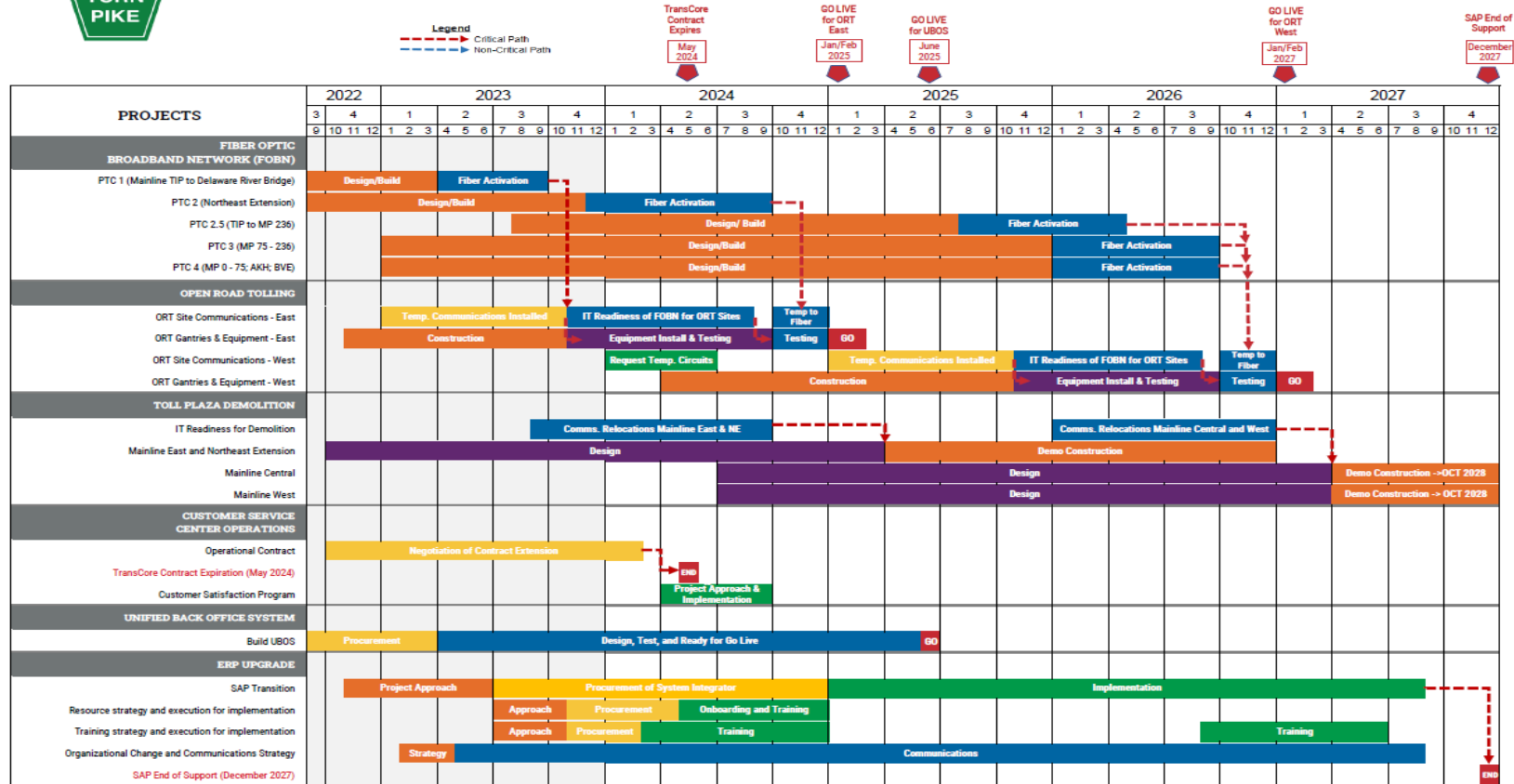
\$451,330,622.00

100.0%





Major Projects and Interdependencies



12-20-2023 V24



Fiber Optic Specification

FXX.00 COMMISSION OWNED FIBER OPTIC FACILITIES

The Commission owns aerial and/or underground fiber optic facilities in the Commission's right-of-way for the entire length of the project limits. The fiber optic facilities provide service to the Commission and potentially other telecommunication companies.

Verify the exact location of the facilities and protect all such facilities from damage during the performance of the contract work. Exercise care to avoid any damage to the Commission's fiber optic facilities in and around the project work.

Coordinate and schedule contract work with the Representative so no interference with any active fiber optic system work done by the Commission or its contractor within the contract limits.

In the event of any damage to the Commission's fiber optic facilities due to the Contractor's acts or omissions, immediately notify the Representative. The Commission reserves the right to conduct emergency repairs, both temporary and permanent, including testing at the expense of the Contractor to restore the facilities to the same condition as prior to the damage. The Contractor is also responsible for all costs and losses resulting from an interruption in service due to the damage caused by the Contractor.

In addition, the Commission will assess in the amount of \$1,000.00 against the Contractor for the administrative burden resulting from any interruption of service for each occurrence of damage to any Commission owned fiber optic facilities.

For purposes of this section, an occurrence is an incident or event caused by the Contractor or its subcontractor that results in damage to the fiber optic facilities and/or an interruption in fiber optic service.

No separate payment will be made by the Commission to the Contractor for measures taken by the Contractor in complying with this specification for protecting fiber optic facilities or for any work in connection therewith and incidental thereto.

Lump Sum Contracts

PTC does isn't strong in controlling scope creep. In a LS contract scenario this is problematic at best.

If a good opportunity presents itself we may entertain one of these contracts

Consultant Ownership Changes

- It is beneficial if Consultants can let us know as soon as they are able to
- Language in the contracts to address acquisitions and advertisements
- Bottom Line – consultants have an ongoing responsibility to notify the Commission as soon as you are able

Access Gate Usage

Gates are not to be held open

Gates are only for Turnpike official use

Receive monthly gate reports and check them for unusual activity

Access will be revoked if they are misused

Consultant CM is to monitor the contractor use as well and report any issues to the PTC

Work Force Development

- Major focus for the Commission over the last year
- During and since Covid PTC lost significant amount of workforce
 - Not the young ones either
- 2022 through 2023 – Ramped up staffing
- Now move focus to training that staff
- Very High Hopes for Success





Work Force Development

First step in any process

- Form a committee!

Second step in any process

- Create a logo!!



Workforce
Development



Work Force Development

Resources

- Will save everyone time!
- Improve communication throughout design/construction.

Leadership

- Prepare for the next level!
- Honing your skills will yield more effective results quicker.

PM

- Provide a more predictable process for you and your project team!
- This is our business and training will save us and you time/money.

Technical Skills

- Quality is Everyone's Responsibility!

Even More Work Force Development

- ✓ **Trainings begin August (Most Wednesday's @ 1:00)**
- ✓ **Schedule rotation (Leadership, PM, Tech Skills, Resources)**
- ✓ **"Instructor Led" courses to be recorded for SuccessFactors**
- ✓ **Small group discussions will not be recorded**
- ✓ **Training prioritization, facilitation and value added**
- ✓ **Field staff training**
 - ✓ **Achieve NICET certifications & Practical training (AED/First Aid)**
- ✓ **Monthly Construction Field Views & Scheduling Training**
- ✓ **Master list of courses & descriptions available**

Trainees

Madison Cornelius – Shippensburg University

- BS in Civil Engineering

Brianna Rotheram – Penn State University - Harrisburg

- BS in Civil Engineering

Leah Vene – Temple University

- BS in Environmental Science

Paige Parsons – Elizabethtown College

- BS in Civil Engineering
- BA in Individualized Architecture Studies
- Minor in Mathematics



Safety

Fall is a tough time, especially this time of year

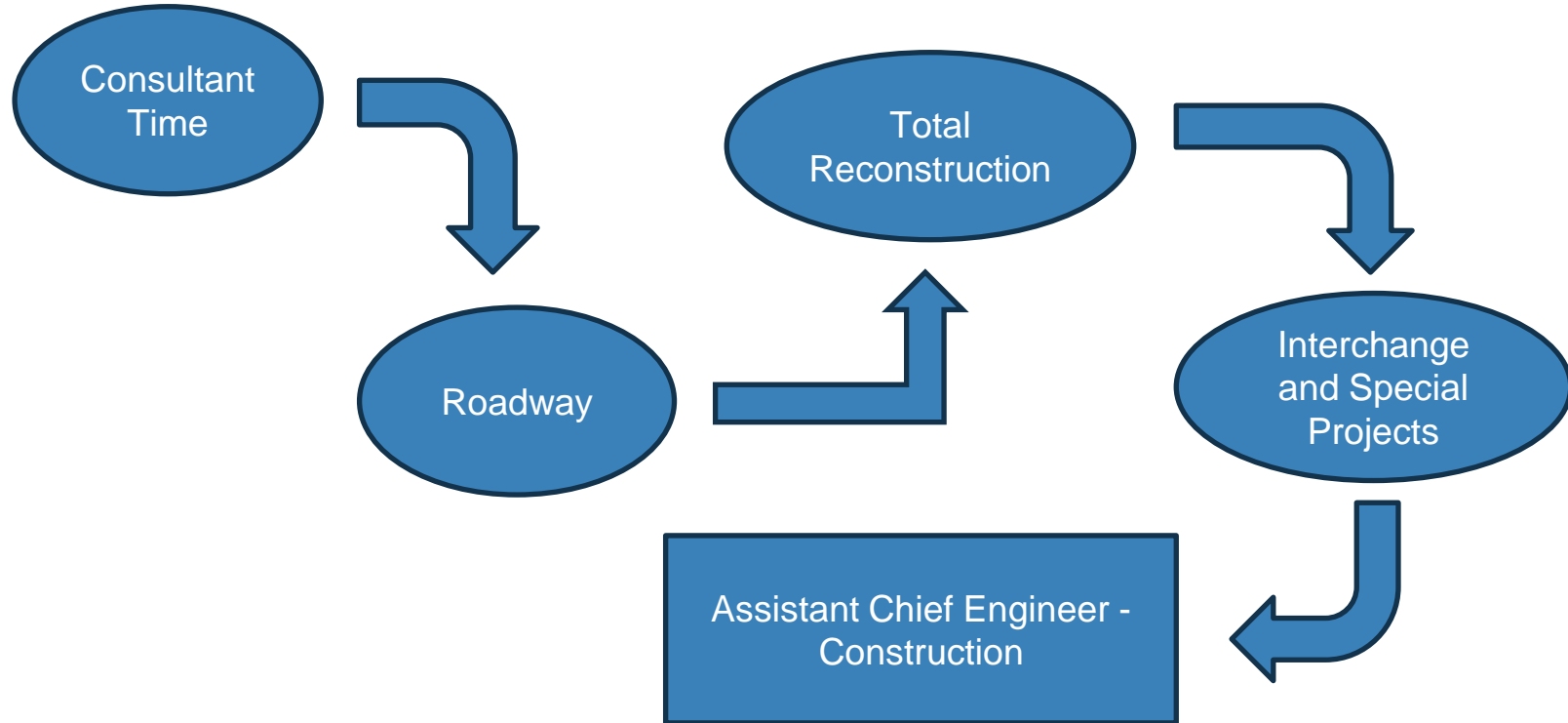
Consultants that do work on our construction projects

- Safety needs to be their top priority
- If there is something unsafe, say something
- If ignored, move it up the escalation ladder





How Did I Get Here



Construction Life vs Design Life

- Working with Consultants
 - Consultant School 101
- Working with Contractors
 - Low Bid world
 - Will let you know what they think



MPT Considerations

- In Design, more concerned with just the traffic portion
 - Do we have enough lanes, transition lengths
- Construction concerns have changed
 - Do we have enough room to work
 - Can we move equipment in and out efficiently
 - Can the equipment realistically work in the area
 - How does the access to the site work
 - Do lane hours allow enough time to work

Permits and LOD

Design

- Used to be concerned with minimizing Right of Way
- Tried to do what was required by agencies to acquire the permit
- Pushed permitting off onto contractor

Construction

- Now – Make sure we have room to work
- Push to have all permits in hand versus relying on a contractor to obtain one

LS and Incidental Items

Design

- Used these a lot during design, thought they were a good idea
- The “they’ll work it out in the field” approach

My have times changed

- Try to avoid these types of items
- It is easier to change or modify individual items versus having a component of a LS go wrong
- Incidental gets missed so often in the field



Schedules and Constructability

- First real look at a CPM schedule in Design
- Now part of every project
- How they are put together is critical
- Shows importance of CM on board early
- Constructability is a major focus
- Big items to consider – access, sequence, room to work

Other concerns

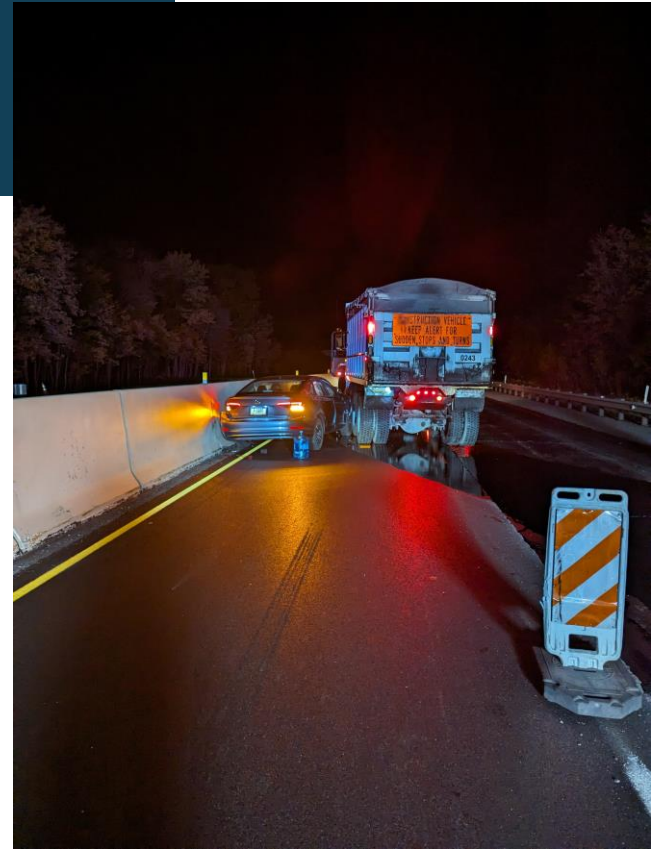
- Organizing a Department
- Working with non-professional non-degree staff
- Working with the Union staff
- Safety
- Change Orders
 - Really amazed at the amount and scope of what I see

Concerns

- First thing I do is check my phone every morning, 7 days a week
- Trying to streamline the department
- Lack of work force

What Keeps Me Up at Night





The Great Strike of 2004



- November 24, 2004 Union workers strike around 4 am
- Off to Philadelphia Interchange w/ Route 1
- 2nd busiest on the system
- Thanksgiving – November 25, 2004

The First Day

Management sent various places – Pre-determined

- Toll collectors
- Tunnel Guards
- Maintenance sheds

Got the call early in the morning, had to report within 12 hours

Early on Strikers were out on the islands

Shortly after, needed to be off Commission property

Picketed near the interchanges

Strike Week

Customer reactions

Union drivers

Jello Pennies

Working the overnight booths

- Tricks you picked up
- Interchange Manager and other staff
- New guys starts on Strike duty

Strike Week



- Management staff was sent to Interchanges and Maintenance sheds
- 12-hour shifts
- Flat toll enacted, mixed emotions from customers

End of the Strike

Lasted a week

A day off then back to old routine

Strike workers received a bonus for doing the job

Key Take Aways

- Steady capital plan numbers
- Ownership changes to PTC as soon as possible
- Monitor your access gate usage
- Much more entertaining and informative than Kevin's presentation



Thank You ACEC/PA - Central

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Questions

