

ASHE 2015

CHRIS DRDA, P.E.
DESIGN SERVICES ENGINEER
PENNDOT DISTRICT 8-0

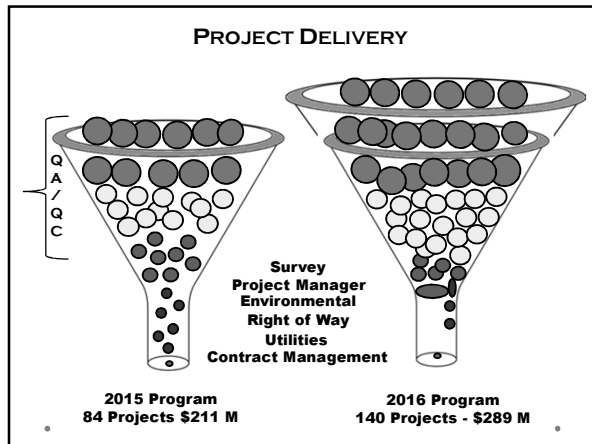
DESIGN SERVICE UNITS

- SURVEYJOHN KIMPORT
- PAVEMENT STEVE HOWELL
- ENVIRONMENTAL SHARON OKIN
- UTILITYKARL WINK
- RIGHT OF WAY RICHARD REISINGER
- RAILROAD AHMED LASLOUDJI
- CONTRACT MANAGEMENTJEFF COSTANZO

TAKE AWAY



- 1.Communication
- 2.QA/QC
- 3.Training



Quality Assurance/Quality Control Plan

XYZ Consultants, Inc
Submitted to: PennDOT
Dated April 1, 2015

QUALITY ASSURANCE/QUALITY CONTROL PLAN

- Quality Management Process and Systems
- Firm's Principles, Philosophy, Goals & Direction
- QA/QC Responsibilities and Authority
- QA/QC Managers & PM's- Role and responsibility
 - Communication
 - Scope, Deliverables, Schedule, Communication and Budget
 - Completeness and Accuracy of submissions and deliverables
- Sub-consultants role and responsibility
 - Meets or exceeds Q/A & Q/C standards of Prime

Quality Assurance/Quality Control Plan

- PennDOT's confidence - Right the 1st time
- Q/A & Quality Assurance
 - More than "QA/QC Plan on File"
 - Yearly Update,
 - Evaluate what went well
 - Potential Improvements
 - Communicate the Plan
- Learn From Mistakes
 - Don't have the "Same 3's"
 - Same Type of Project
 - Same Mistake
 - Same Consultant

ENVIRONMENTAL

PROBLEM:

- TOO MUCH QA/QC IS OCCURRING AT THE ENVIRONMENTAL UNIT
- TIME WASTING
- CEE IS NOT JUST A CHECK LIST

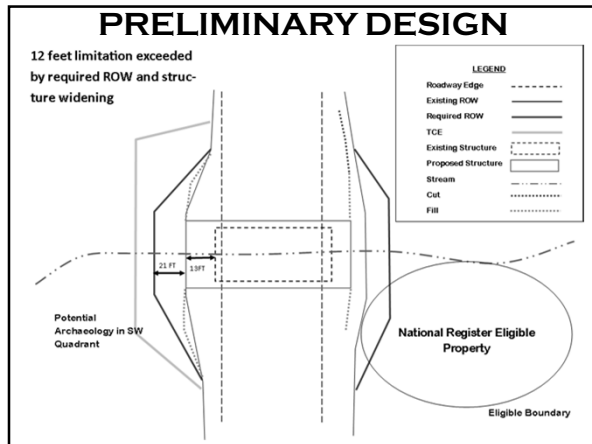
SOLUTION:

- PRIME ENGINEERS: COMMUNICATE WITH ENVIRONMENTAL TEAM
 - CHECK IF PROJECT EXEMPTIONS STILL APPLY OR MORE STUDIES ARE NEEDED.
 - NOTIFY ENVIRONMENTAL TEAM OF ANY PLAN/DESIGN CHANGES.
- PRIME CONSULTANT MANAGER:
 - QA/QC ALL ENVIRONMENTAL DOCUMENTS AND STUDIES PRIOR TO SUBMISSION.

SCOPING-PE- FD "12 FEET RULE"

12 feet comes into play frequently in the environmental process as a restriction:

- If a bridge is widened more than 12 feet to either side, you cannot use the BRPA
- If you widen or change alignments more than 12 feet you cannot apply for a GP-11
- If you acquire more than 12 feet of new ROW, you cannot exempt a project from Cultural Resource investigations



CONSEQUENCES


- Identified non-exempt activity (exceeded 12 feet)
- Phase I Archaeology required – **30 days**
- If site is found –
 - additional time for Phase II (6 mo)
- Prepare Archaeological Report and Section 4(f) De minimus Form – **60 days**
- Submission of Findings to PHMC – **30 days**
- Revision to CEE – **15 days**

Minimum Delay Time = 135 days

**Bottom Line: Delays “Trickle Down”
Project Schedule Is Compromised**

QA/QC THROUGH ENVIRONMENTAL COMMITMENT AND MITIGATION TRACKING SYSTEM (ECMTS) REPORT

- ECMTS Report tracks environmental mitigation commitments through final design/bid package development, construction, and post-construction maintenance and monitoring
- ECMTS Report is to be developed upon NEPA approval to include known environmental mitigation commitments documented in the CEE
- ECMTS Report must be maintained through final design/bid package development as a QA/QC measure to ensure mitigation is incorporated into the project
- ECMTS Construction Tracking Signature Sheet ensures
 - contractor completes environmental mitigation



UTILITY IMPACTS

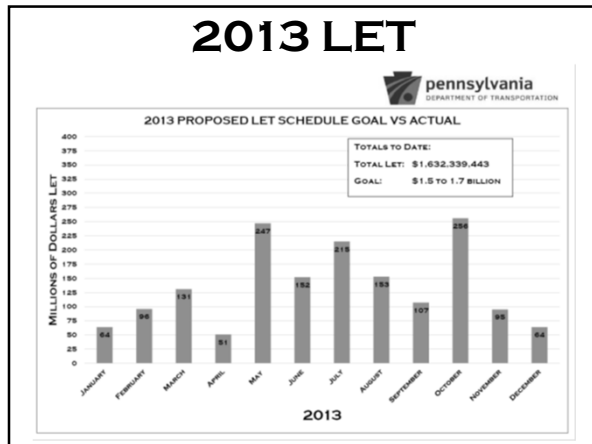
PROJECT	CONSTRUCTION CALENDAR DAYS	COORDINATION DAYS	RESTRICTIVE DAYS	TOTAL UTILITY DAYS
SR 0462-032	292	52	335	387
SR 0083-040	784	175	542	717
SR 0094-014	732	736	48	784

UTILITY TASK FORCE

- MUNICIPAL RESPONSE FORM
- SHARING PENNDOT'S PROGRAM
- IMPORTANCE OF MEETING LET DATE
- SCHEDULE/D-419

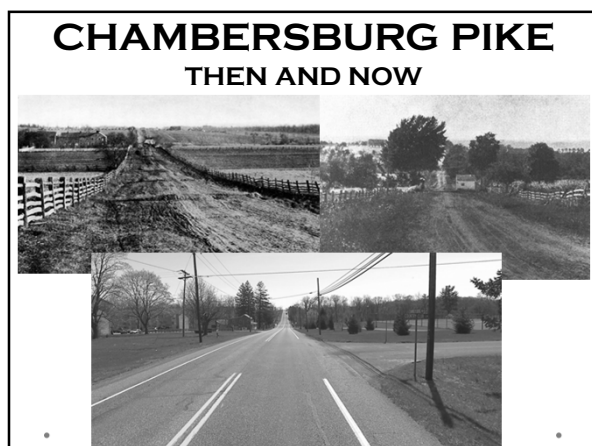
UTILITY DEFINITIONS

PRIOR	Anticipated completion before the Notice to Proceed is issued. Actual or anticipated completion date shown.
RESTRICTIVE	To be completed by the utility or a string of utilities before operating without restriction. Number of calendar days will start from the actual notice to proceed that is issued to the highway contractor.
CONCURRENT	Simultaneous with, but not restricting operations. Number of calendar days required.
COORDINATED	Phasing with specific construction operations. Number of calendar days required after completion of specific construction operations.
NOT AFFECTED	Identifies UTILITY with facilities in the construction area which are not anticipated to be affected. Specific information may be provided by the UTILITY.
INCORPORATED	Utility relocation work to be incorporated into the prime highway construction contract.



SURVEY

- All right-of-way plans must be based on, or tied to the Pennsylvania State Plane Coordinate system
- Correct referencing of the source of the existing Legal R/W



RIGHT OF WAY

UNDER AMENDMENT V OF THE US CONSTITUTION

No person shall be deprived of life, liberty or property without due process of the law; nor shall private Property be taken for public use without Just Compensation.



RIGHT OF WAY

- Follow the Process
- Condemnation is not the 1st Step
- It may not always be about money
- Communication
- Know the advertisement date
- Right of way Trainees (by consultants)

CONTRACT MANAGEMENT

- PS&E PACKAGE
- ADDENDUM
- D 419
- D 4232
- SCHEDULE DEVELOPMENT MEETINGS
 - DESIGN BUILD
 - A+Bx

A + B_x

SR 0896-008; LANCASTER COUNTY; ECMS: 75024 DESIGN
ESTIMATE: \$2,659,562.10
(Total Estimate with A+B_x = \$4,315,647.82)

Bid Results

Let Date	Project	Rank	Bidders	Bid Total	Contract Amount	Bid Status	Project Type	Dist	County	Group/SR/Section
2/26/2015	75024	1	Bidder 1	\$4,315,647.82	\$2,915,647.82	Verified	Standard	8	Lancaster	---896/008
		2	Bidder 2	\$4,007,058.18	\$3,207,058.18					
		3	Bidder 3	\$4,765,947.10	\$3,365,947.10					

Bidder 1 – 160 days
Bidder 2 – 220 days
Bidder 3 – 230 days

PROJECT DELIVERY COMMUNICATION SUGGESTIONS

- Consider not having a meeting when a simple e-mail will do.
- Avoid embedding an important action/task in the body of an e-mail.
- Consider all recipients before you “reply to all”
- If no response - don't assume your message is delivered
- Have a concern – Communicate early - Not at the 11th hour.
- For time sensitive/critical issues - Pick up the phone.

HOW TO AVOID THIS

- **KNOW THE ADVERTISEMENT DATE**
- **COMMUNICATION –THROUGH THE APPROPRIATE VENUE**
- **QA/QC**
- **TIMELY SUBMISSIONS & RESPONSES**
- **2:00 PM -- DOES NOT MEAN 3:00 PM**
(SOMETIMES THERE IS NO FLEXIBILITY)

MEASURES

How did we do in 2014?

- All Projects advertised on time
- No projects were pulled after advertisement
- 93 Projects Let
 - 158 Addendums
 - 617 Questions in ECMS
- Environmental Documents- Noticeable improvement
- IOP's – No major finding for Right of Way, Utilities and Environmental

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QUESTION:

What is the Busiest Highway in North America?

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Hwy 401 (QEW) through Toronto is said to be the busiest highway in North America. Highway 401's widest segment has 18 lanes passing by an airport.

Widest highway (maximum number of through lanes)
22 lanes wide, Interstate 5 in San Diego, California.

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