

DME Capital Improvement Program Update

City Council
December 8, 2015

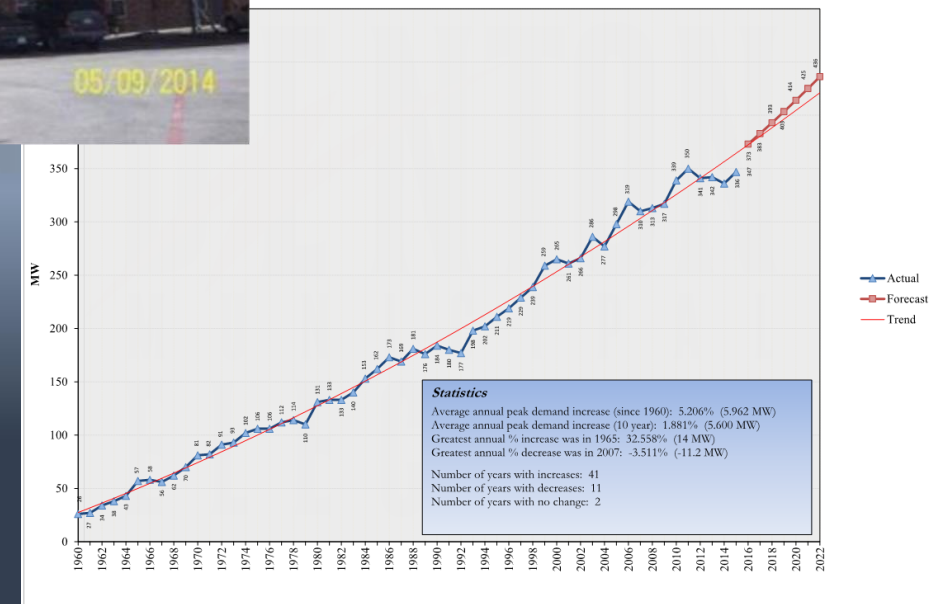


Executive Summary

- Problem:
 - Growth and Aging Infrastructure
- DME has a responsibility to respond
- Capital Improvement Plan
 - Includes Public Involvement Process
- Consider all practical options



DME Peak Loads and Trend, 1960 to 2020
(2.6% Forecast)



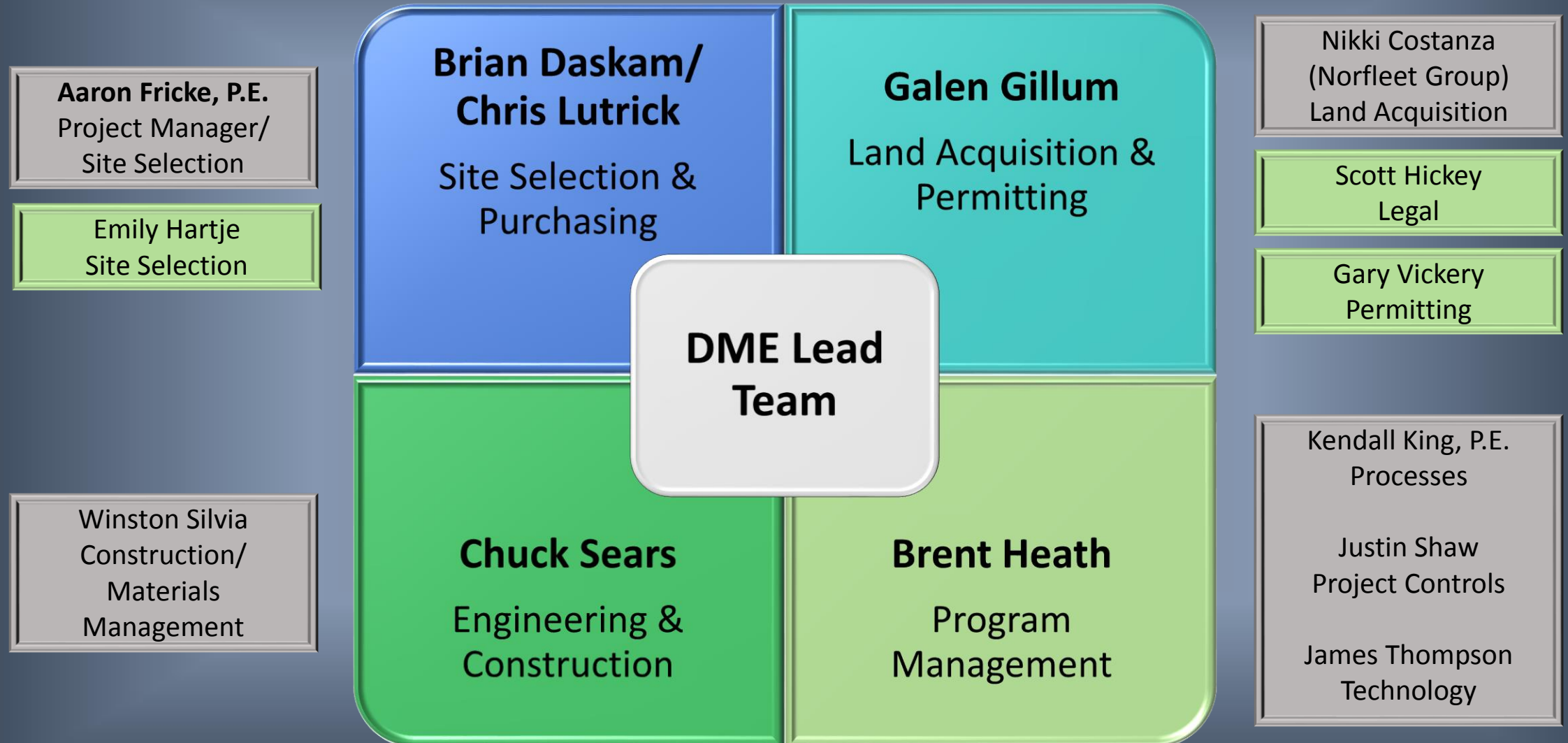
Major Accomplishments - Project Management Processes and Tools

- Documented 21 DME/COD project execution processes
- 77 Individual project and program level schedules developed
- GIS Web Portal - mapping and management tool
- e-Builder program management platform
- Tracking/reporting tools for projects, purchasing and contract management developed
- Executive Level Dashboard developed



“We have to change the tire on this car while it’s moving...” John Moore

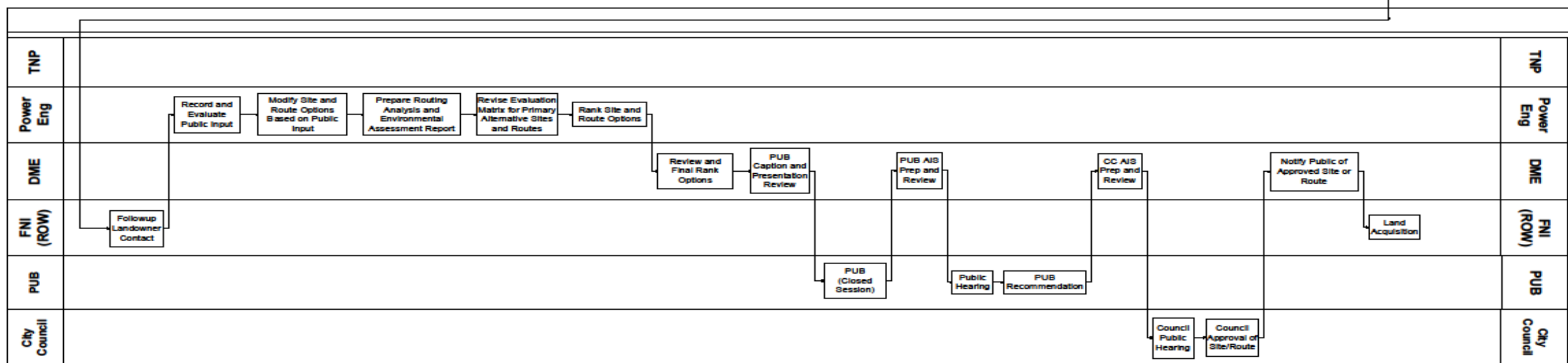
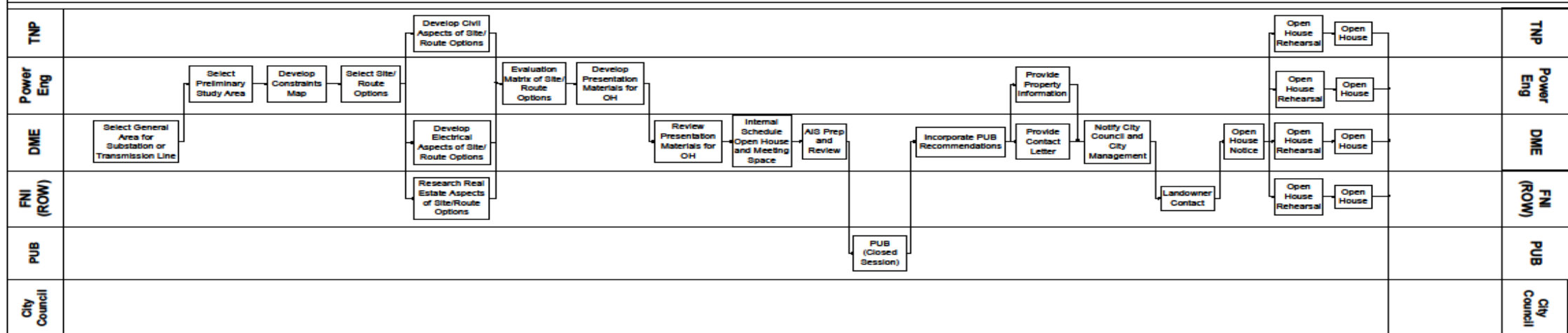
CIP Leadership Team



Swim Lane Diagrams

Revision 6
6-17-2014

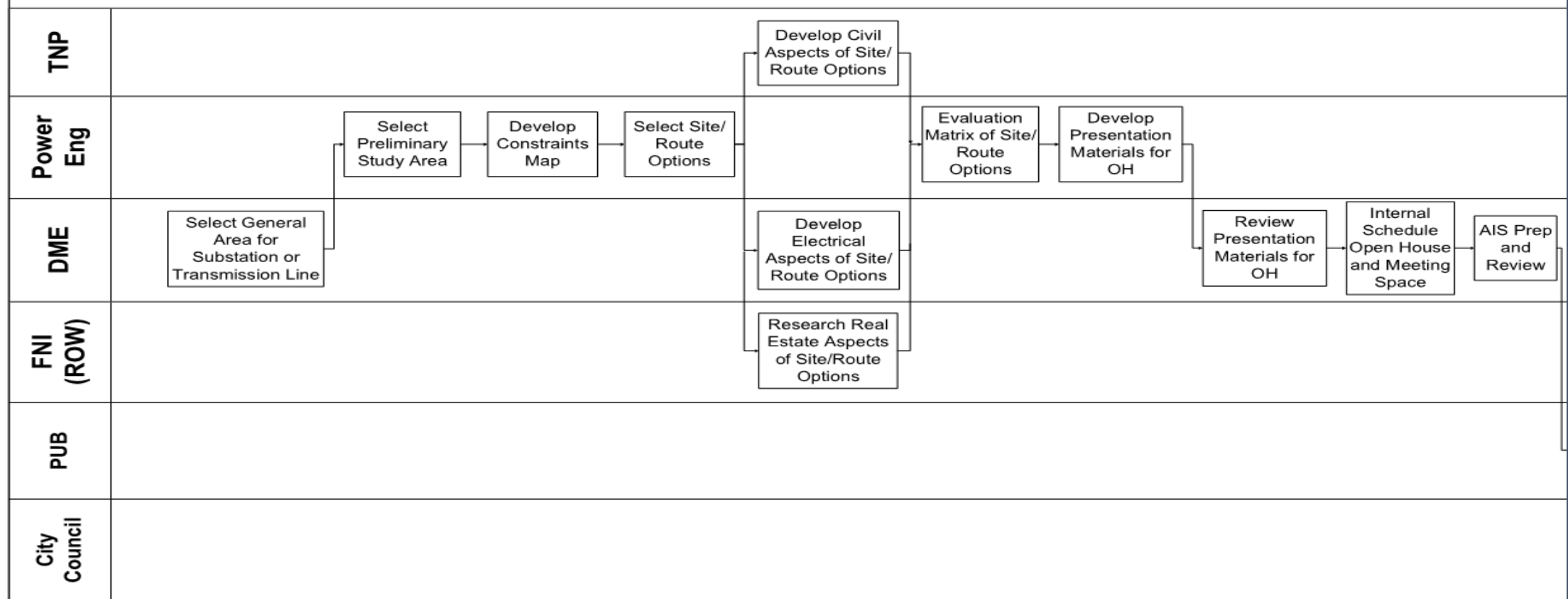
Site & Route Selection Process



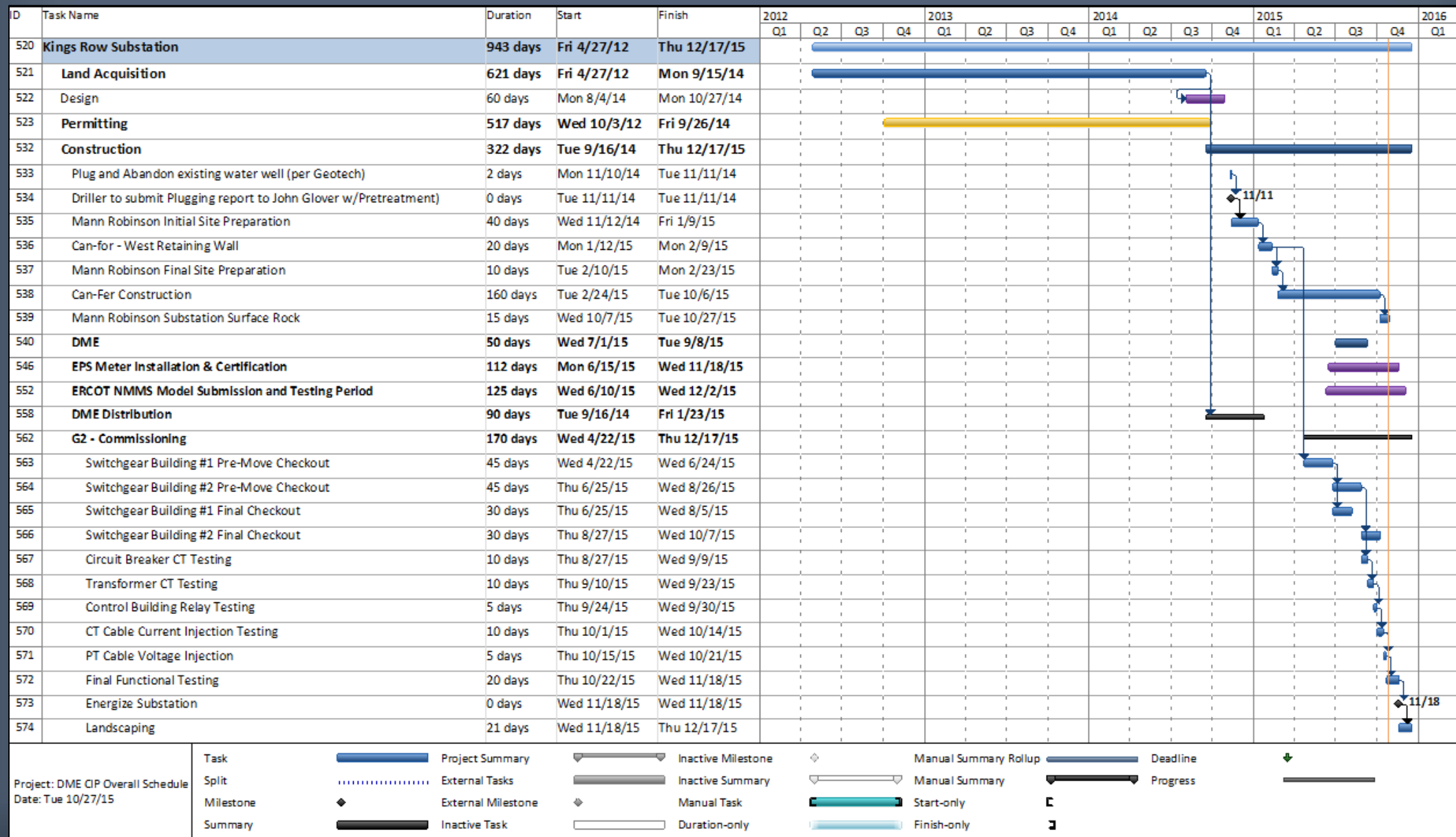
Swim Lane Diagrams



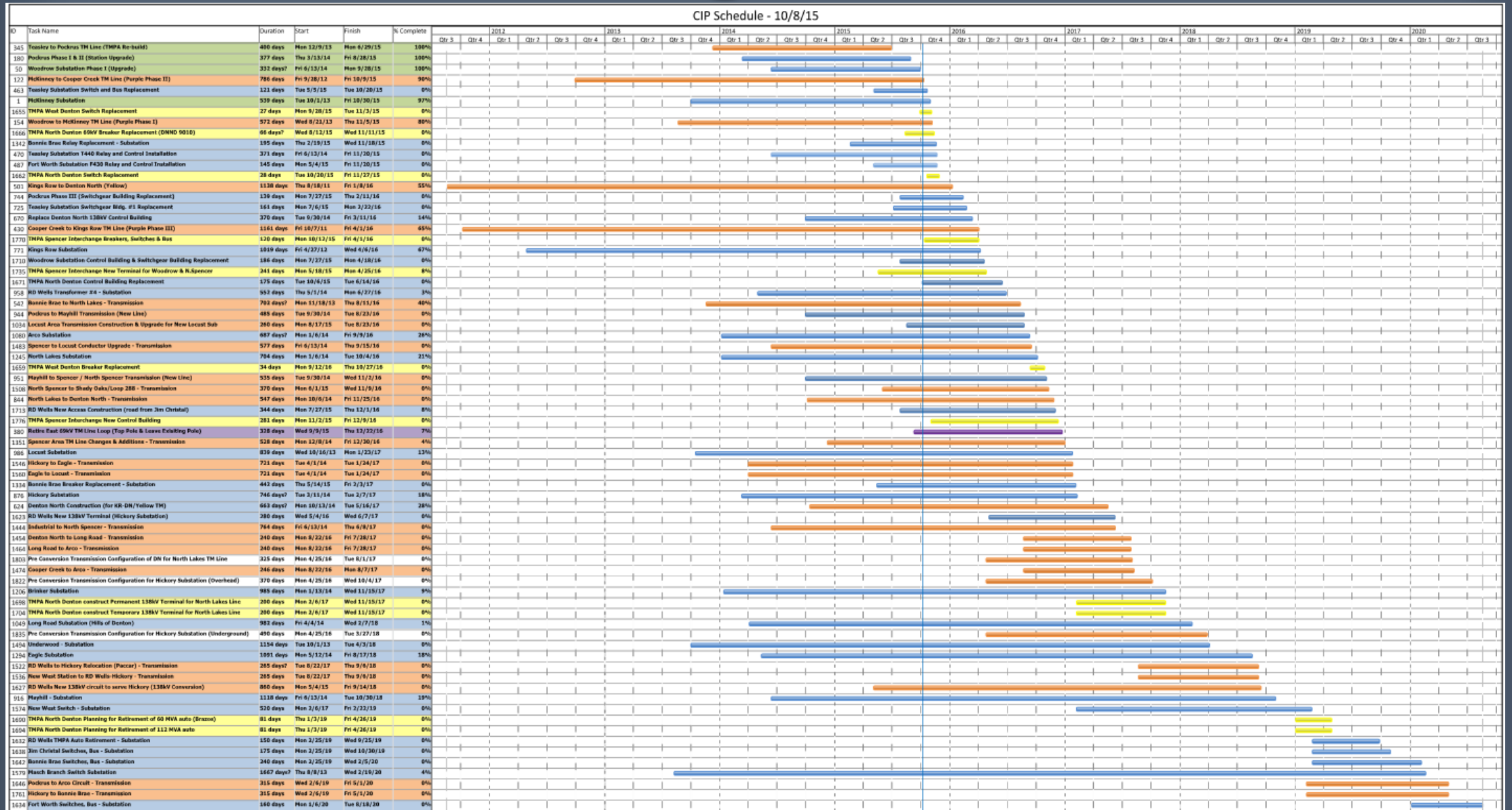
Site & Route Selection Process



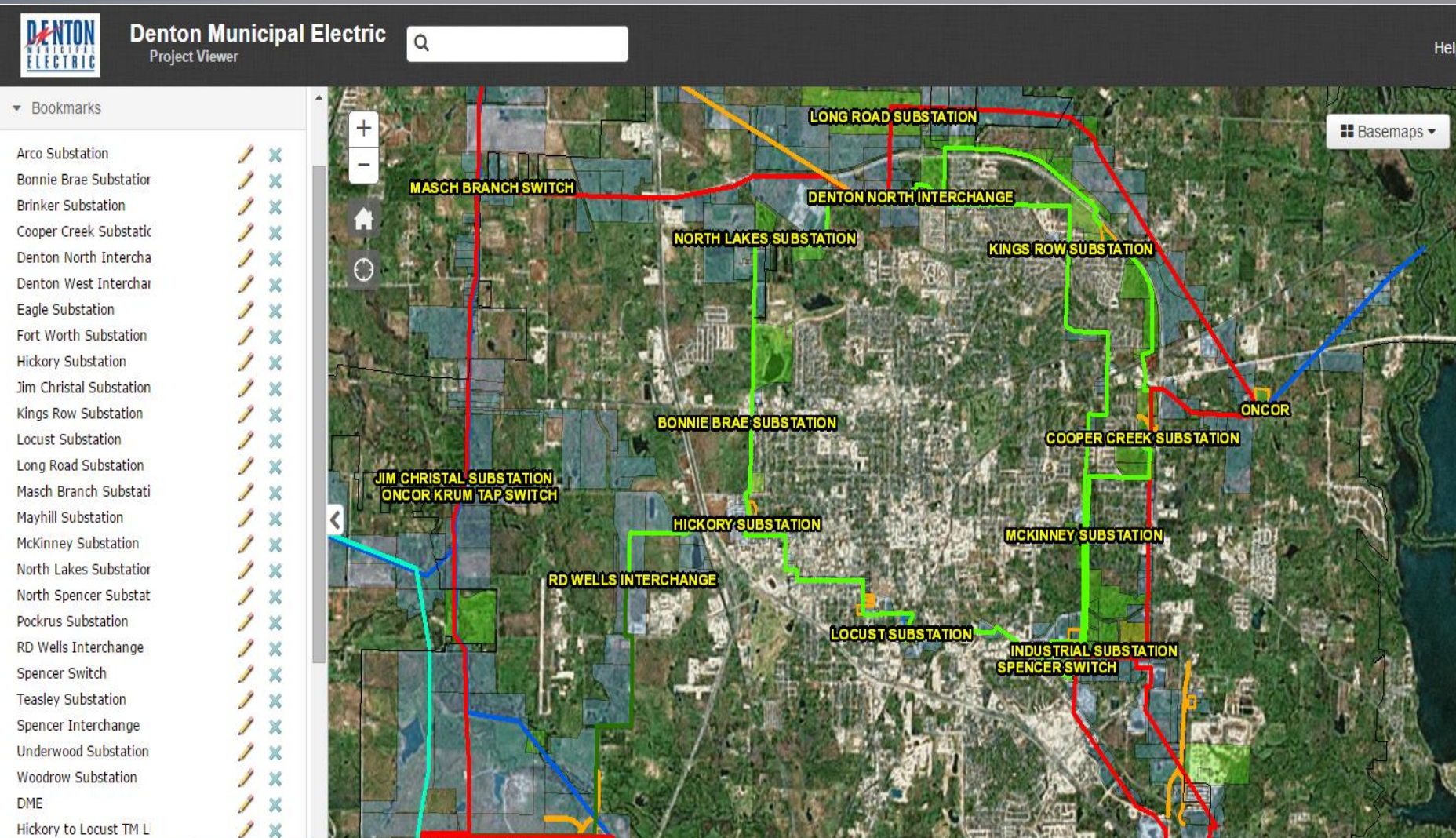
Individual Project Schedules



Overall Program Schedule



Web Portal




- Live GIS Web Map
- DCAD data
- Bookmarks
- Search
- Measure
- Print
- Directions
- Street view (Bing Maps)

e-Builder Program Management Platform


- Document Storage
- Cost Control
- Contract Management
- Annual Budget Forecasting
- Expedite Reporting for TCOS/Project close-out

File Edit View Favorites Tools Help

e-Builder 

KKing2

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Projects

All Projects Edit | Add View

Please select a Project...

Project Name <input type="button" value="Up"/>	DME Project Number	Project Facility	Number of Parcels	Number of Parcels Acquired	Real Estate Company	Project Status
***Master Materials Contracts						Administrative
***Master Services Contracts						Administrative
Account Admin - City of Denton/Freese & Nichols						Complete
Arco Substation	603268	Substation	1	0	Norfleet Group	Active
Arco to Cooper Creek TM Line Rebuild	603511	Transmission Line			Norfleet Group	Active
Bonnie Brae Substation	602099	Substation	1	1	Norfleet Group	Active
Brinker Substation	603290	Substation	1	0	City of Denton	Active
Cooper Creek Substation	603112	Substation	1	1	City of Denton	Active
Cooper Creek to Kings Row (Purple III)	603539	Transmission Line				Active
Denton North Interchange	603495	Substation			Norfleet Group	Active
Denton North to Arco TM Line Rebuild	603512	Transmission Line			Norfleet Group	Active
Denton North to North Lakes	602947	Transmission Line	17	0	Norfleet Group	Active
Denton West Interchange	603496	Substation			Norfleet Group	Active
Eagle (UNT) Substation	603200	Substation			Norfleet Group	Active
Fort Worth Substation	603368	Substation	2	0	City of Denton	Active
Hickory Substation	603234	Substation	9	0	Norfleet Group	Active
Hickory to Bonnie Brae	603126	Transmission Line			Norfleet Group	Active
Hickory to Locust 69kV TM Line	602949	Transmission Line	88	0	Norfleet Group	Active
Industrial Substation	603497	Substation			Norfleet Group	Active
Jim Christal Substation	603498	Substation			Norfleet Group	Active

Project Meetings

TMPA Arco Switch/DME Arco Substation



Notes:

8/7/14 - Landowner has signed the contract and Legal is preparing the ordinance. Planning to go to PUB on 8.11.14 and to council on 8.19.14

8/20/14 - CC approved the purchase of the expansion and is now in the closing process. Will close before or on 9/18.

9/2/14 - TNP is creating new easement for Nikki to use for Lovelace. Trying to close Friday 9/12 on the expansion of north of Arco.

10/16/14 - Pre-P&Z open house scheduled for 10/23. P&Z hearing scheduled for 11/5.

11/6/14 - SUP went to P&Z 11/5.

Site Selection		Completion Date	
		Plan	Actual
Nikki Costanza	Make Initial Contact	7/15/13	12/9/13
Nikki Costanza	Attend Open House	12/12/13	12/12/13
Nikki Costanza	Follow-up LO Contact	12/13/13	12/13/13
Nikki Costanza	Send LOBoR	1/3/14	1/3/14
Nikki Costanza	PUB	1/13/14	1/13/14
Nikki Costanza	City Council	2/4/14	2/4/14

Land Procurement		Completion Date	
		Sub	Rec
Nikki Costanza	Quick Title		3/7/14
Nikki Costanza	Appraisal		8/23/13
Nikki Costanza	PUB (for IO & FO)		
Nikki Costanza	City Council (for IO & FO)		
Nikki Costanza	Initial Offer		4/7/14
Nikki Costanza	PUB (if Countered)		8/11/14
Nikki Costanza	City Council (if Countered)		8/19/14
Nikki Costanza	Final Offer		
Nikki Costanza	PUB (ED Ordinance)		
Nikki Costanza	City Council (ED Ordinance)		
Scott Hickey	Eminent Domain (File Petition)		
Nikki Costanza	Site Closing		9/18/14
Nikki Costanza	Recorded Deed		

Permitting		Completion Date	
		Sub	Rec
Gary Vickery	Pre-Application (PAC14-0004)	1/06/14	1/30/14
Gary Vickery	Minor Plat		
Gary Vickery	Specific Use Permit (SUP) (S14-0006)	7/15/14	8/4/14
Gary Vickery	Building Permit		
Gary Vickery	Clearing & Grading Permit		

Design		Completion Date	
		Sub	Rec
DME Engineering	Site Survey (including tree survey)		2/27/13
DME Engineering	Phase 1		6/4/13
DME Engineering	Geotech		Completed
DME Engineering	Site Civil		
DME Engineering	Electrical Design		
DME Engineering	Relay Design		
DME Engineering	Public Improvement Specification		

Project Description:

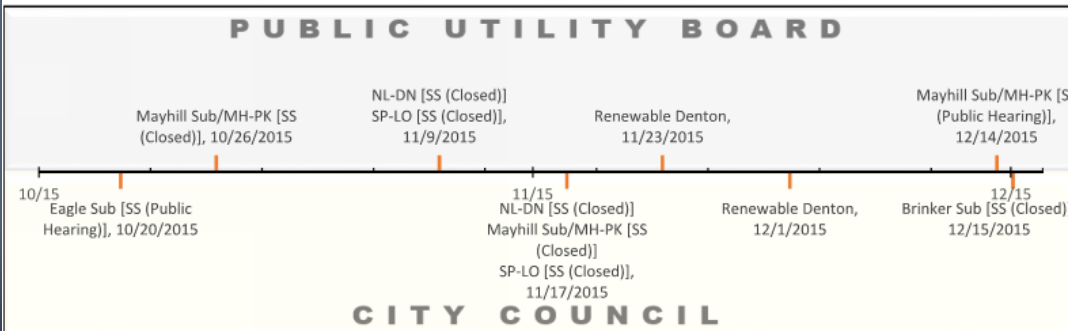
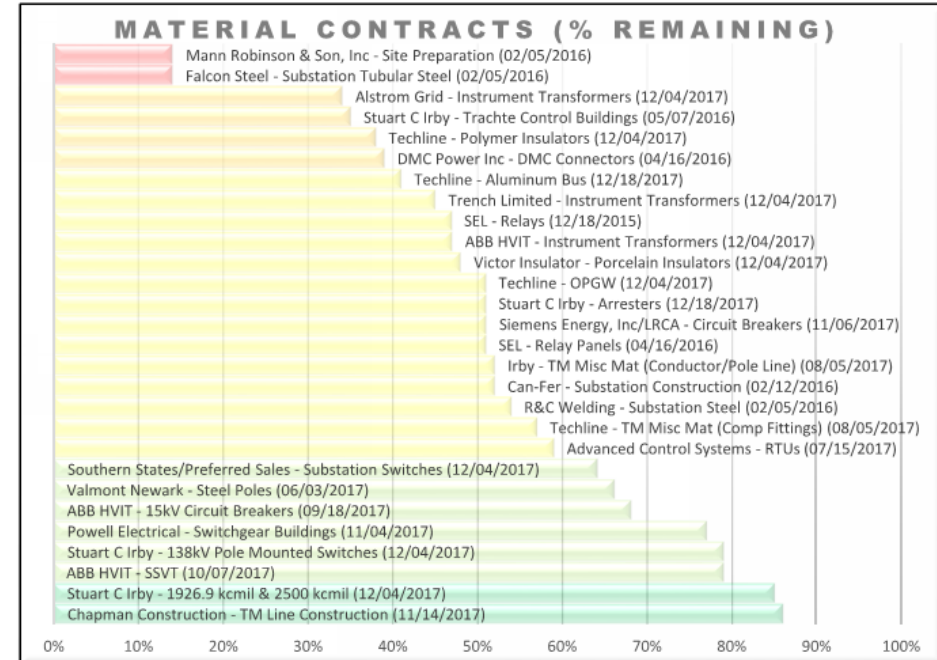
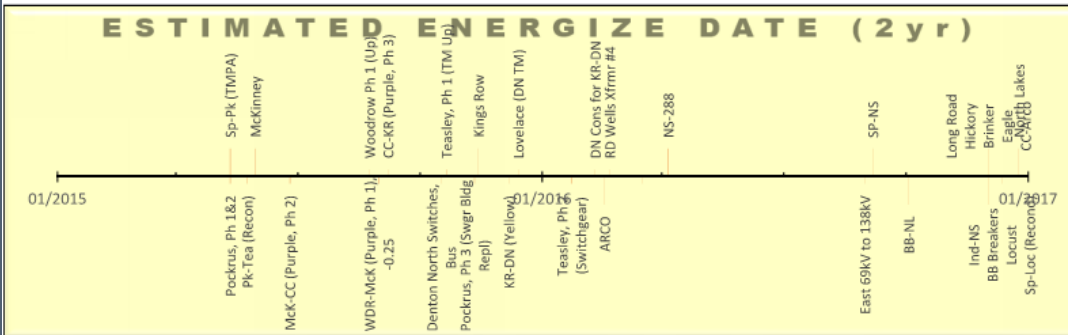
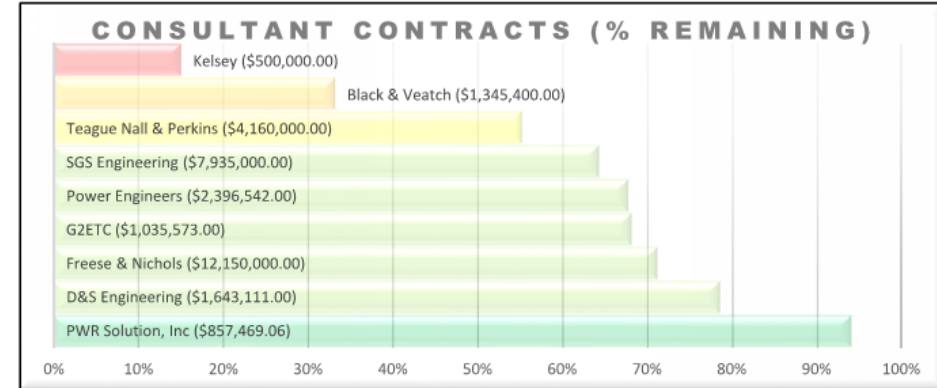
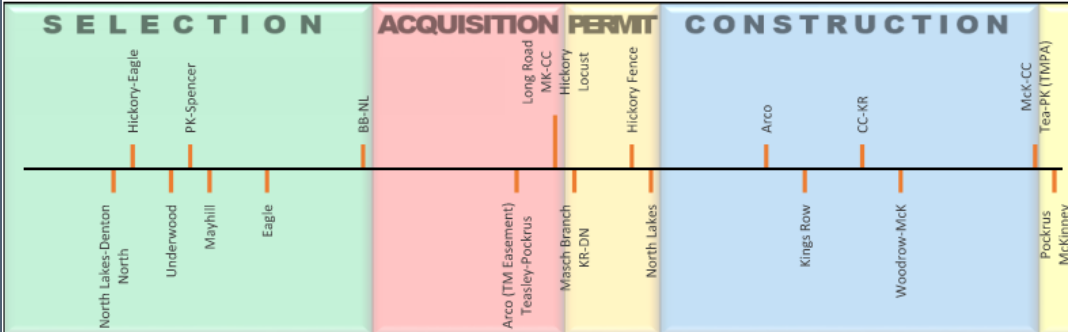
TMPA Arco Switch/DME Arco Substation: Complete reconstruction of the Arco Switch/Substation on an adjacent site. Only the distribution transformers will be salvaged from the original station.

- Standing meeting – Thursdays
- Review progress of action items
- Coordinate team activities
- Develop strategy
- Process improvements
- Last meeting of month reserved for executive briefings

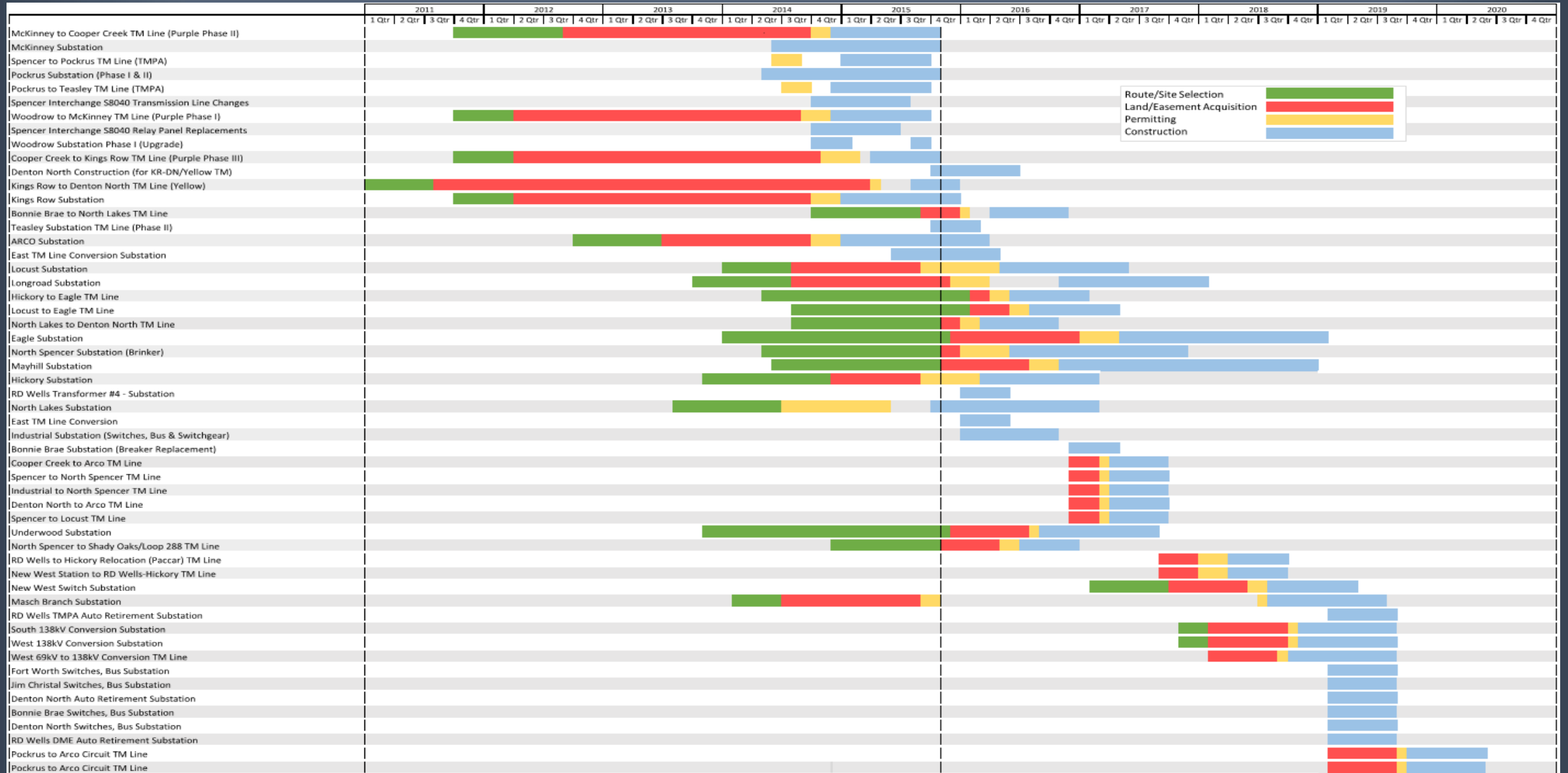
Exec Dashboard

CIP Program Summary

10/22/2015





Exec Dashboard



2014-2015 Accomplishments

Site Selection	Land Acquisition	Permitting	Design/Construction	Construction Complete
Mayhill	Long Road	Arco	Yellow Route	Teasley
PK-SP	Masch Branch	Kings Row	Purple Route Ph III (99%)	Bonnie Brae
BB-NL	Locust	North Lakes	Purple Route Ph I	Cooper Creek
Hickory	HK-EG	TS-PK (TMPA)	Purple Route Ph II	Fort Worth
NL-DN			Pockrus Ph I	
SP-LC			Pockrus Ph II	
			McKinney	
			Woodrow	
			PK-SP (TMPA)	
			Kings Row (85%)	

 Substations
 Transmission Lines

Status of FNI contract

Project/Program Management Assistance \$6 million approved

- NTP late October 2013, good through September 2016
- Preliminary work began early November 2013
- Full effort began January 2014
- Scaled up as number of projects and workload increased
- Two construction managers on site daily

Real Estate Support \$6 million approved

- Early stages of land acquisition
- Several substation sites in site selection and acquisition stage
- Preliminary work on transmission line route selection
- Beginning acquisition on transmission line routes

\$3,140,000 through September

\$750,000 through September

The background image shows an electrical substation. Two workers wearing hard hats and safety gear are visible on a platform, working on high-voltage equipment. The equipment includes large insulators and metal structures. The scene is outdoors under a clear sky.

Major Accomplishments Since Summer 2011

- Updated FERC 715 Study
- CIP developed & approved
- 5 Substation Upgrades Completed
- 3 New Substations Completed
- 2 TM Line Upgrades Completed
- 2 New TM Lines Completed

Closing Remarks & Questions

