

# TOWN OF PALM BEACH

## Information for Town Council Meeting on: October 9, 2018

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TO: Mayor & Town Council

VIA: Kirk Blouin, Town Manager

FROM: Steven Stern, Project Manager

RE: **Key Project Updates**

DATE: September 27, 2018

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### 1. Communications

#### Outreach:

- Phase 1 South: Cup of Joe with Bo, October 1, 2018.
- Phase 1 & 2 North: Coffee with the Crew, October 5, 2018.
- Palm Beach Daily News

### 2. Progress Summary:

#### Construction progress:

##### Phase 1 North Construction:

- FPL Transformer & Splice box placements are nearing completion.
- ATT underground splice boxes are installed
- FPL Transformer pads and device installations scheduled complete by 9/28/2018.
- All switchgear installed.
- Continuity testing of system conducted. Energize and testing expected in October contingent on construction As-Builts approved by FPL.
- Subscriber cutovers expected to begin November.
- Comcast pedestal placements and wire pull installations are in progress and nearly complete throughout the Phase 1 North area.
- ATT communicated preliminary installation activities to begin in early October. The service provider is now working to update and provide the Construction Agreement, requested by staff in August.
- Light Pole installation by FPL subcontractor Davco expected to complete by Nov 1.

##### Phase 1 South Construction:

- All FPL Switch Cabinets, Transformers, feeder/primary conduit and cable pulls on S. Ocean Blvd North & South of Lake Worth are complete.
  - 92 devices have been installed.

- Electrical system energize and testing expected in late October contingent on construction As-Built approved by FPL.
- Subscriber cutovers expected to begin in November, targeting 2 condos/day.
- Comcast wire pull installation activities are pending, this work will primarily occur in Ibis Isle
- ATT communicated preliminary installation activities to begin in early October. The service provider is now working to update and provide the Construction Agreement, requested by staff in August.
- Light Pole installation by FPL subcontractor Davco expected to complete by Nov 1.

Note: Landscaping planned to be installed post subscriber cutovers. There may be exceptions based on proximity of poles to be removed.

#### **Phase 2 North Construction:**

- Awards to Burkhardt for a Phase 2 North CMAR contract and Kimley Horn Engineering Services approved in August Town Council.
- Construction has commenced for Phase 2 North in September 2018.
  - The Town held its second biweekly construction team meeting on Sept 26 with Burkhardt and the subcontractors for Phase 2 N.
  - Activities for the Phase 2 area, drill pits and exploratory digs along North Lake Way from Onondaga to Reef Road.
  - Horizontal Direction Drilling planned to begin in October along N. Lake Way with sweeps into side streets.
    - Simultaneous construction of sweeps are a new best practice from lessons learned during Phase 1.
  - Initial Conduit Installation Schedule posted to Undergrounding.Info.
    - <http://undergrounding.info/phase-2-north/>

#### **Phase 2 South Construction:**

- As has been communicated - CMAR and Engineering Services award recommendations delayed.
- Scheduled start of construction for the Phase 2 South area is now TBD.
- Engineering workshop held on Sept 28 to educate and increase participation for Phase 2-3 South CMAR solicitation.

### **Design & Easement Progress:**

#### **Phase 2:**

- Phase 2 North Design is 97% complete
- Phase 2 South Design is 89% complete

#### **Easement Status:**

- Phase 2 North: 81% of easements approved
- Phase 2 South: 78% of easements approved

The UUP Budget for Phase 2 easement acquisition expense reduced by \$84k. Due to our estimate of external legal support changing from \$94k to \$25k and temporary services expense from \$20k to \$5k.

**Phase 3:**

- Phase 3 North Design is 40% complete
- Phase 3 South Design is 38% complete

Easement Status: Not Started

**Phase 4:**

- Phase 2 North Design is 25% complete
- Phase 2 South Design is 22% complete

Easement Status: Not Started



## **Underground Utility Task Force Monthly Progress Report October 2018**

### **Table of Contents**

#### **Dashboard – Phase 1, 2 Construction and Phase 2, 3, 4 Design**

1. Kimley-Horn Progress Report Phase 2
2. Kimley Horn Progress Report Phase 3
3. Kimley Horn Progress Report Phase 4
4. Master Plan Gantt Chart
5. Phase 2 Design Gantt Chart
6. Phase 3 Design Gantt Chart
7. Phase 4 Design Gantt Chart
8. Phase 1 North Construction Schedule
9. Phase 2 North Construction Schedule
10. Burkhardt Executive Project Summaries
11. Phase 1 South Construction Schedule
12. Whiting Turner Executive Summary
13. Project Financial Report
14. Interest Rate Forecast, September 21, 2018

#### Dashboard Notes:

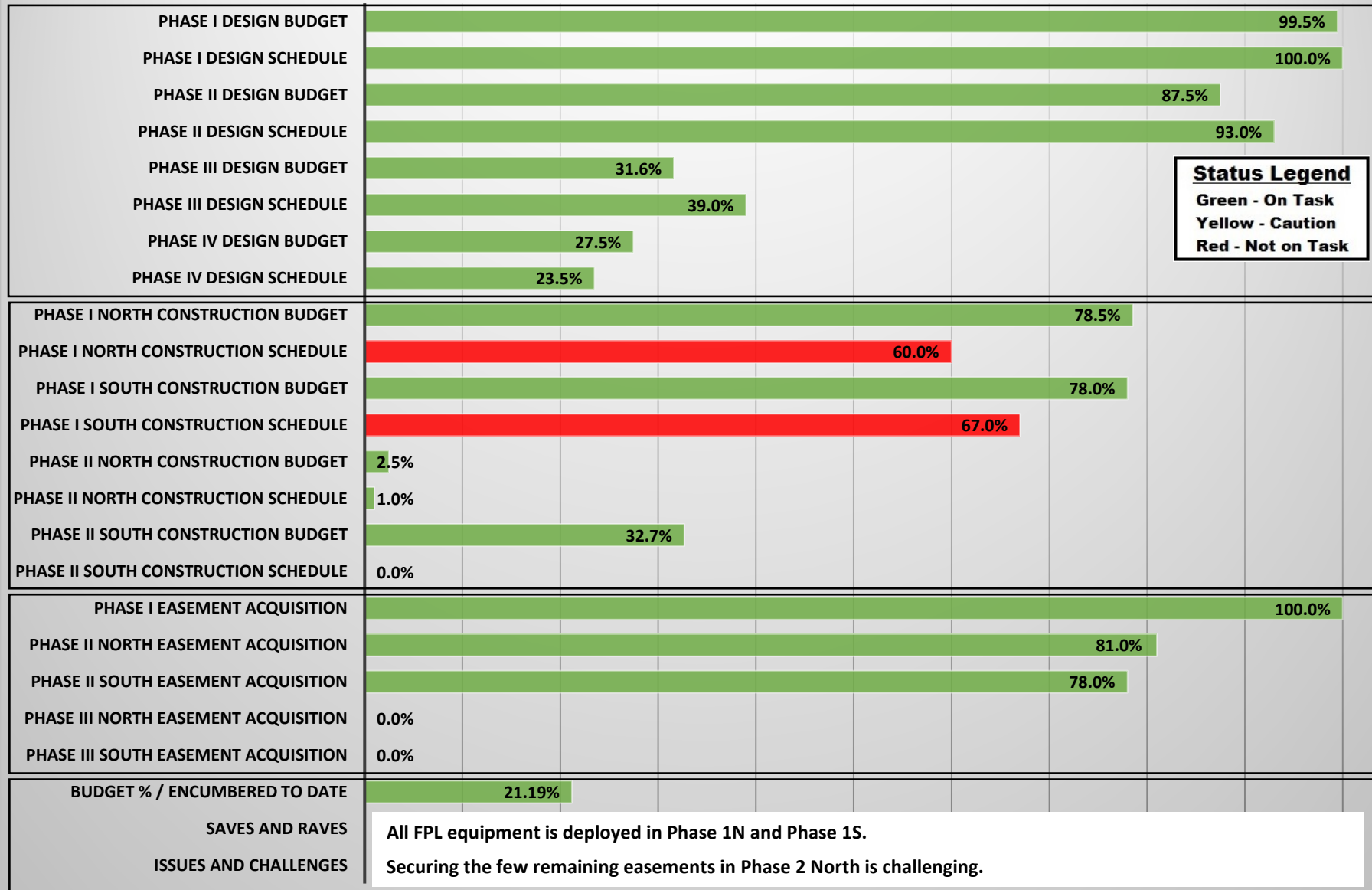
- Overall Budget represents the percentage encumbered to date versus the total project budget of \$102 million.

Prepared by the Finance Department & TMO  
A Um' % 2018



## Town of Palm Beach - Underground Utility Project Dashboard - Oct '18

0.0% 10.0% 20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 80.0% 90.0% 100.0%



**Status Legend**  
 Green - On Task  
 Yellow - Caution  
 Red - Not on Task



**Town-Wide Undergrounding - Phase 2 Design**  
**KHA Project #044063202**  
**September 2018 Progress Report**  
**Period: August 26, 2018 to September 25, 2018**

**I. Scope Update**

**A. General**

- Schedule: Project schedule progress is shown below.
  - Phase 2 North Design is 97% complete
  - Phase 2 South Design is 89% complete
- Budget: Project is on budget as of September 15, 2018
  - Phase 2 North Design is at 86% of total task budget
  - Phase 2 South Design at 83% of total task budget
- Easement Status
  - Phase 2 North: 81% of easements approved
  - Phase 2 South: 78% of easements approved

**B. Detailed Design Phase**

- Subconsultant/utility owner coordination related to Phase 2 Design.
- Continued modification of construction plans based on easement acquisition process.
- Continued coordination with Comcast, AT&T and FPL to finalize Conduit Plans for Phase 2 North and South.
- Continued modification of Landscape Plans for Phase 2 South
- Review and Comment on revised Phase 2 South GMP received
- Attendance at Phase 2 South GMP Negotiations Meetings with Town
- Continued coordination with the FDOT regarding the Phase 2 South Utility Permit application
- Continued resident meetings for easement acquisition in Phase 2 North and Phase 2 South.
- Attendance at Progress Meeting with Town and Utilities to coordinate the design process.
- Attendance at Coordination Meeting with FPL.
- Attendance at Meeting with AT&T and Mayor to discuss negotiation strategies.
- Prepare and submit legal sketches and descriptions for approved easements.
- Conference call with Town and Attorney to discuss easements on private streets

**II. Upcoming Activities (September 26, 2018 – October 25, 2018)**

**A. Detailed Design Phase**

- Continue resident meetings to discuss easements in Phase 2 North and Phase 2 South.
- Progress Meeting Attendance

Save: The Town's direct purchase of AT&T and Comcast conduit materials has saved over \$9,000.

Rave: Insourcing most of the easement acquisition program has realized cost savings and achieved schedule efficiencies. The easement acquisition team is doing great work!



**Town-Wide Undergrounding - Phase 3 Undergrounding**  
**KHA Project #044063215**  
**September 2018 Progress Report**  
**Period: August 26, 2018 to September 25, 2018**

**I. Scope Update**

**A. General**

- Schedule: Project schedule progress is shown below.
  - Phase 3 North Design is 40% complete
  - Phase 3 South Design is 38% complete
- Budget: Project is on budget as of September 15, 2018
  - Phase 3 North Design is at 24% of total task budget
  - Phase 3 South Design at 25% of total task budget
- Easement Status
  - Phase 3: N/A, will provide status when this work begins

**B. Detailed Design Phase**

- Continued Subconsultant/utility owner coordination related to Phase 3 Undergrounding.
- Subconsultant/utility owner coordination related to Phase 3 Undergrounding.
- Continued review of Phase 3 existing survey files received from the Town, edit base file based on additional utility record information received. Plot existing recorded easements on base map.
- Coordination with soft dig subconsultant to perform field investigations.
- Field review of proposed Phase 3 North FPL equipment locations to confirm locations are feasible.
- Progress Meeting Attendance

**II. Upcoming Activities (September 26, 2018 – October 25, 2018)**

**A. Detailed Design Phase**

- Submittal of Preliminary Equipment Plans – Phase 3 North
- Development of Preliminary Equipment Plans – Phase 3 South
- Submittal of initial easement exhibits – Phase 3 North
- Development of initial easement exhibits – Phase 3 South
- Soft Dig Utility Locates – Complete field work
- Progress Meeting Attendance



**Town-Wide Undergrounding - Phase 4 Undergrounding**  
**KHA Project #044063219**  
**September 2018 Progress Report**  
**Period: August 26, 2018 to September 25, 2018**

**I. Scope Update**

**A. General**

- **Schedule:** Project schedule progress is shown below.
  - Phase 4 North Design is 25% complete
  - Phase 4 South Design is 22% complete
- **Budget:** Project is on budget as of September 15, 2018
  - Phase 4 North Design is at 21% of total task budget
  - Phase 4 South Design at 20% of total task budget
- **Easement Status**
  - Phase 4: N/A, will provide status when this work begins

**B. Detailed Design Phase**

- Subconsultant coordination related to Phase 4 Undergrounding
- Data Collection of existing utilities in project area and coordination with utility owners to receive record information.
- Received additional field survey for Phase 4 South area and incorporated this information into the base file.
- Finalize development of the Phase 4 North and South utility base file and submittal to FPL
- Review and sort existing easements after public record research. Coordinate inclusion of these easements on survey with project surveyor
- Coordination with Comcast related to WiFi equipment screening systems
- Progress Meeting

**II. Upcoming Activities (September 26, 2018 – October 25, 2018)**

**A. Detailed Design Phase**

- Continued Subconsultant/utility owner coordination related to Phase 4 Undergrounding
- Progress toward development of Phase 4 Street Light Exhibits
- Coordination meeting with FPL to discuss Phase 4 South equipment locations
- Progress Meeting

ID	Task Name	Duration	Start	Finish																												
1	Master Planning	222 d2222	M22 2/12/12	Fr22/21/12																												
2	External Project Kick off Meeting	1 day	Thu 6/16/16	Thu 6/16/16																												
3	Internal Project Kick off Meeting	1 day	Mon 6/20/16	Mon 6/20/16																												
4	Task 1.1.1 - Data Collection	22 d2222	M22 2/12/12	Fr28/12/12																												
5	Collect/Analyze Town Project Data- ACIP Program Information (roads, drainage, street lights, other planned ACIP projects)	35 days	Mon 5/16/16	Fri 7/1/16																												
6	Collect/Analyze City Data - Watermain program information	30 days	Mon 5/16/16	Fri 6/24/16																												
7	Collect/Analyze Lake Worth and South Palm Beach data at project limits	30 days	Mon 5/16/16	Fri 6/24/16																												
8	Collect/Analyze FPU - gas main replacement program	30 days	Mon 5/16/16	Fri 6/24/16																												
9	Collect/ Analyze - FDOT records and proposed projects in Town limits	30 days	Mon 5/16/16	Fri 6/24/16																												
10	Collect/Analyze FPL	22 d2222	2 2d 2/12/12	Fr28/12/12																												
11	Office Meeting/Record Review with FPL	1 day?	Wed 7/13/16	Wed 7/13/16																												
12	Field Verification of Major Utility Elements	22 days	Thu 7/14/16	Fri 8/12/16																												
13	Collect/Analyze ATT	22 d2222	T22 2/12/12	Fr28/12/12																												
14	Office Meeting/Record Review with ATT (infrastructure / Smart Poles)	1 day?	Thu 7/14/16	Thu 7/14/16																												
15	Field Verification of Major Utility Elements	21 days	Fri 7/15/16	Fri 8/12/16																												
16	Collect/Analyze Comcast	21 d222	Fr22/12/12	Fr28/12/12																												
17	Office Meeting/Record Review with Comcast	1 day	Fri 7/15/16	Fri 7/15/16																												
18	Field Verification of Major Utility Elements	18 days	Wed 7/20/16	Fri 8/12/16																												
19																																
20	Task 1.1.2 - Data Collection-Future Communications Systems	122 d222	2 2d 2/2/12	M22 11/28/12																												
21	Collect/Analyze - TOPB Police and Fire Dept private lines	16 days	Fri 7/15/16	Fri 8/5/16																												
22	Meeting with Town Public Works staff, Fire Department Staff, and Police Staff	1 day	Wed 7/6/16	Wed 7/6/16																												
23	Analysis of Town-wide Closed communications system expansion (police/fire/public works)	17 days	Fri 7/15/16	Mon 8/8/16																												
24	Analysis of Town-wide Closed Circuit communications system	51 days	Wed 7/6/16	Wed 9/14/16																												
25	Develop recommendations/conceptual order of magnitude OPC (Town Future Communications only)	21 days	Mon 9/26/16	Mon 10/24/16																												
26	Draft and Issue summary memorandum	47 days	Thu 9/15/16	Fri 11/18/16																												
27	Review recommendations with Town	6 days	Mon 11/21/16	Mon 11/28/16																												
28																																
29	Broadband Infrastructure Assessment	182 d2222	M22 2/22/12	Fr22/21/12																												
30	Kickoff meeting	1 day	Mon 7/25/16	Mon 7/25/16																												
Project: TOPB UG Master Plann Date: Wed 2/21/18		Task	Summary	Manual Summary	Deadline	Manual Progress																										
		Milestone	Manual Task	Finish-only	Progress																											
Page 1																																

ID	Task Name	Duration	Start	Finish	Gantt Chart																															
					Apr 25, '16	May 6, '16	May 17, '16	May 28, '16	Jun 8, '16	Jun 19, '16	Jul 30, '16	Jul 11, '16	Jul 22, '16	Aug 2, '16	Aug 13, '16	Aug 24, '16	Sep 4, '16	Sep 15, '16	Sep 26, '16	Oct 7, '16	Oct 18, '16	Oct 29, '16	Nov 9, '16	Nov 20, '16	Dec 1, '16	Dec 12, '16	Dec 23, '16	Jan 3, '17	Jan 14, '17	Jan 25, '17	Feb 5, '17	Feb 16, '17	Feb 27, '17	Mar 10, '17	Mar 21, '17	Apr 1, '17
31	Community Needs & Stakeholder Outreach	65 days	Tue 7/26/16	Mon 10/24/16																																
32	Broadband Market Analysis	44 days	Tue 7/26/16	Fri 9/23/16																																
33	Broadband Issue Analysis	21 days	Mon 9/26/16	Mon 10/24/16																																
34	FTTP Data Collection & Benchmarking	46 days	Mon 8/22/16	Mon 10/24/16																																
35	FTTP Technical Design Options	46 days	Mon 8/22/16	Mon 10/24/16																																
36	FTTP Business Case Analysis	46 days	Mon 8/22/16	Mon 10/24/16																																
37	FTTP Financial Evaluation	46 days	Mon 9/26/16	Mon 11/28/16																																
38	FTTP Roadmap and Business Plan	25 days	Tue 10/25/16	Mon 11/28/16																																
39	Final Presentation and Deliverables	25 days	Tue 10/25/16	Mon 11/28/16																																
40	UUTF Presentation	1 day	Tue 12/6/16	Tue 12/6/16																																
41	RFI Development	21 days	Fri 1/6/17	Fri 2/3/17																																
42	RFI Distribution and Advertisement	21 days?	Mon 2/6/17	Mon 3/6/17																																
43	Review RFI Responses and Provide Recommendations	19 days?	Tue 3/7/17	Fri 3/31/17																																
44																																				
45	Task 1.1.3 - GIS Base Map Development - Existing Infrastructure	21 d???	Mon 5/16/16	Mon 8/8/16																																
46	GIS Map Development Town Project Data- ACIP Program Information	45 days	Mon 5/16/16	Fri 7/15/16																																
47	GIS Map Development - Watermain program information	45 days	Mon 5/16/16	Fri 7/15/16																																
48	GIS Map Development FPU - gas main replacement program	45 days	Mon 5/16/16	Fri 7/15/16																																
49	GIS Map Development - TOPB Police and Fire private lines	17 days	Fri 7/15/16	Mon 8/8/16																																
50	GIS Map Development - FDOT records and proposed projects in Town limits	45 days	Mon 5/16/16	Fri 7/15/16																																
51																																				
52	Task 1.2 - Concept Design/Master Plan	99 d???	Fri 7/15/16	Fri 11/18/16																																
53	Master Plan Design Layout/Workshop - FPL Infrastructure -GIS Maps	78 days	Mon 8/15/16	Wed 11/30/16																																
54	Master Plan Design Layout/Workshop - ATT Infrastructure - GIS Maps	59 days	Mon 8/15/16	Thu 11/3/16																																
55	Master Plan Design Layout/Workshop - Comcast Infrastructure - GIS Maps	70 days	Mon 8/15/16	Fri 11/18/16																																
56	Master Plan Design Layout - Street lights - GIS Area Map	55 days	Mon 7/18/16	Fri 9/30/16																																
57	Master Plan Design Layout - CC fiber link and Competitor Communications - GIS Map	17 days	Fri 7/15/16	Mon 8/8/16																																
58	Major easement Identification, field verification	47 days	Thu 9/1/16	Fri 11/4/16																																
59																																				
60	Task 1.2.3 - Phase Selection and Development	?? d???	Mon 8/8/16	Fri 10/7/16																																
61	Phase Selection and Development / GIS Map Development of Phasing Limits (first half of project)	45 days	Mon 8/8/16	Fri 10/7/16																																

Project: TOPB UG Master Plan  
Date: Wed 2/21/18

Task

Milestone

Summary

Manual Task

Manual Summary

Finish-only

Deadline

Progress

Manual Progress

Page 2

ID	Task Name	Duration	Start	Finish																																		
					Aug 25, '16	May 8, '16	Jun 5, '16	Jul 3, '16	Jul 31, '16	Aug 28, '16	Sep 25, '16	Oct 23, '16	Nov 20, '16	Dec 18, '16	Jan 15, '17	Feb 12, '17	Mar 12, '17	Apr 9, '17																				
62					25	6	17	28	8	19	30	11	22	2	13	24	4	15	26	7	18	29	9	20	1	12	23	3	14	25	5	16	27	10	21	1	12	2
63	<b>Task 1.2.4 - Engineers Opinion of Probable Construction Cost</b>	?? d???	M?? 9/5/1?	? ?d 11/??/1?																																		
64	Development of Overall OPC and year-by-year cost projection	63 days	Mon 9/5/16	Wed 11/30/16																																		
65																																						
66	<b>Task 1.3 - Project Sequencing and Phasing</b>	1?? d???	M?? 5/15/1?	Fr?11/?/1?																																		
67	Task 1.3.1 - Schedule Collection - Outside Projects (ACIP, City, Town, FPU, FDOT, etc.)	35 days	Mon 5/16/16	Fri 7/1/16																																		
68	Task 1.3.2 - Master Schedule Development	60 days	Mon 8/15/16	Fri 11/4/16																																		
69																																						
70	<b>Task 1.4 - Assessment of Traffic Impacts</b>	?8 d???	M?? 8/15/1?	? ?d 11/??/1?																																		
71	Develop Traffic Control Notes/Overall Plan	35 days	Mon 8/15/16	Fri 9/30/16																																		
72	Develop General Project Zones	32 days	Thu 9/1/16	Fri 10/14/16																																		
73	Develop GIS Map for MOT Plan	43 days	Mon 10/3/16	Wed 11/30/16																																		
74																																						
75	<b>Task 1.5 - Project Delivery Methods</b>	?? d???	? ?d 8/15/1?	T?? 11/18/1?																																		
76	Meeting with Town to review delivery method criteria	1 day	Wed 8/17/16	Wed 8/17/16																																		
77	Develop general selection criteria based on project phase complexity, phasing, etc.	26 days	Fri 8/19/16	Fri 9/23/16																																		
78	Develop delivery method recommendations for each Phase of Project	15 days?	Mon 9/26/16	Fri 10/14/16																																		
79	Review recommendations with Town	1 day	Tue 10/18/16	Tue 10/18/16																																		
80																																						
81	<b>Task 1.6 - Master Plan Document</b>	9? d???	M?? 9/5/1?	Fr?1/?/1?																																		
82	Develop master plan document to describe process undertaken, present design criteria, public vetting process and recommendations	74 days	Mon 9/5/16	Thu 12/15/16																																		
83	Submit to Town Staff	1 day	Fri 12/16/16	Fri 12/16/16																																		
84	Town Staff Review	15 days	Mon 12/19/16	Fri 1/6/17																																		
85																																						
86	<b>Refine Master Plan based on Town Comments</b>	60 days	Mon 1/9/17	Fri 3/31/17																																		
87	<b>UUTF Meeting to Present MP</b>	1 day?	Tue 4/4/17	Tue 4/4/17																																		

Project: TOPB UG Master Plann  
Date: Wed 2/21/18

Task

Milestone

Summary

Manual Task

Manual Summary

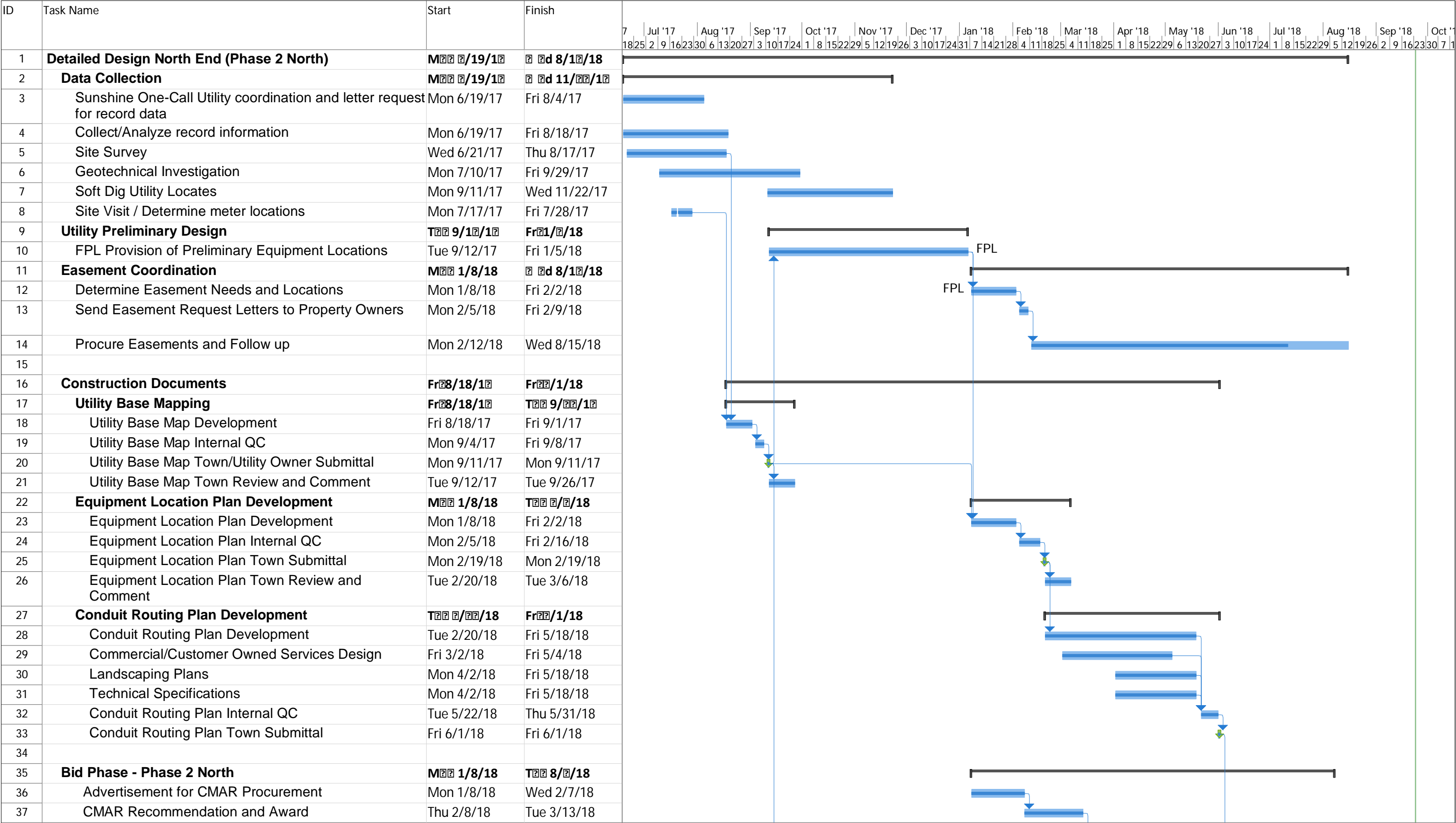
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Deadline

Progress

Manual Progress





Project: TOPB UG Ph 2 Designr  
Date: Mon 9/24/18

Task

Milestone

Summary

Project Summary

Manual Task

Manual Summary

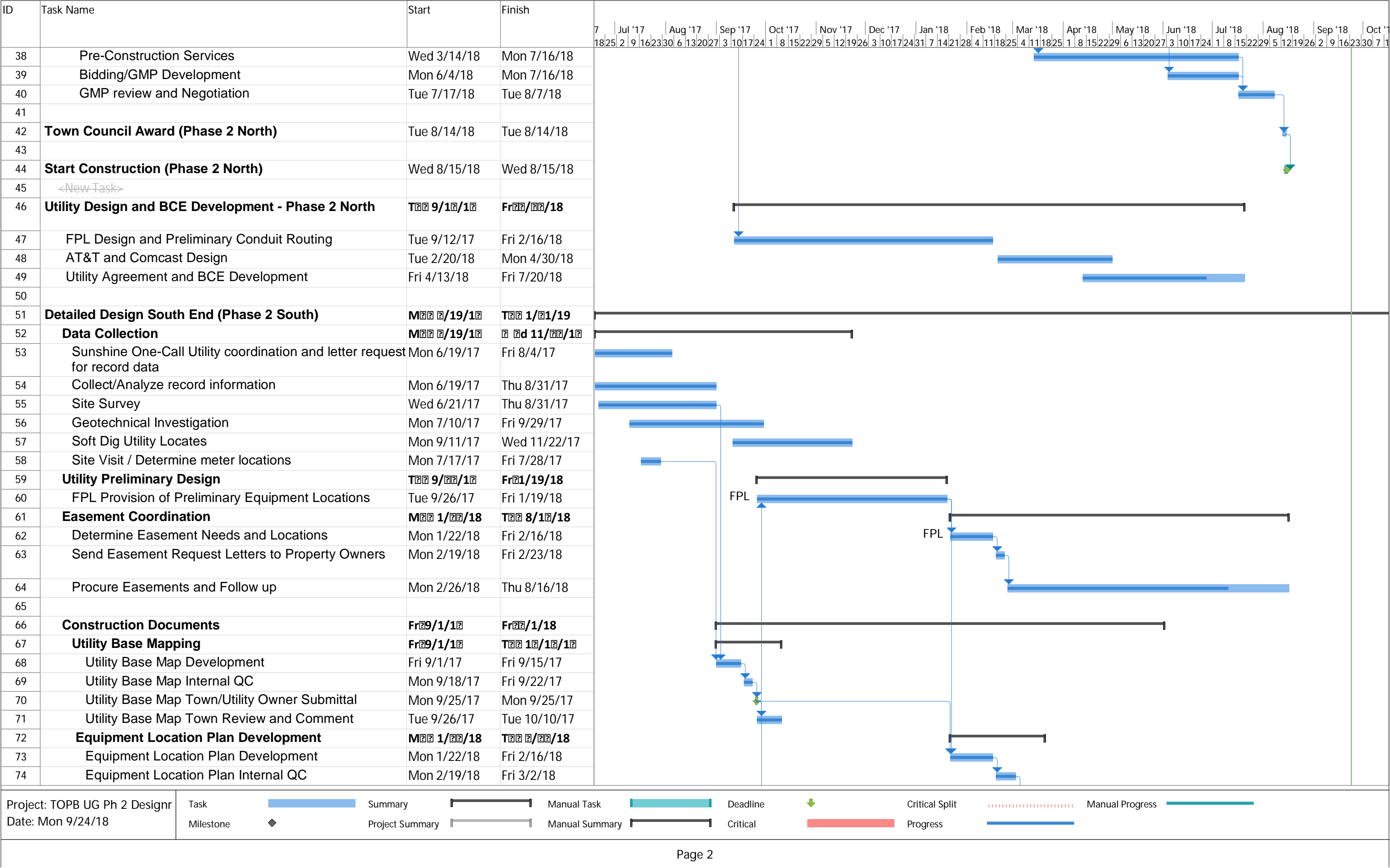
Deadline

Critical

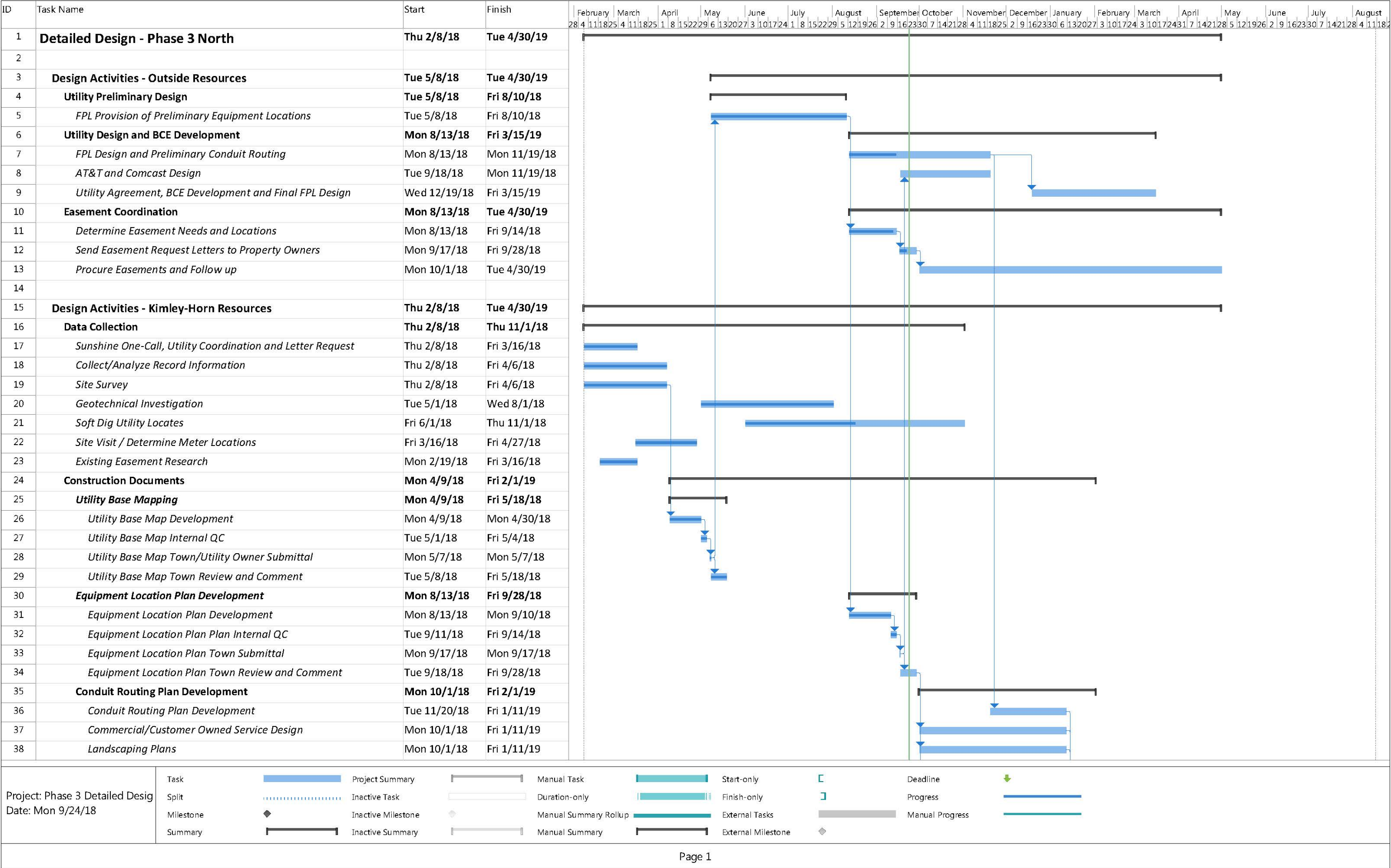
Critical Split

Progress

Manual Progress









ID	Task Name	Start	Finish
39	Technical Specifications	Mon 10/1/18	Fri 1/11/19
40	Conduit Routing Plan Internal QC	Mon 1/14/19	Thu 1/31/19
41	Conduit Routing Plan Town/CMAR Submittal	Fri 2/1/19	Fri 2/1/19
42			
43	Bid Phase - Phase 3 North	Mon 9/3/18	Tue 4/30/19
44	CMAR Procurement	Mon 9/3/18	Fri 11/2/18
45	CMAR Recommendation and Award	Tue 11/13/18	Tue 11/13/18
46	Pre-Construction Services	Wed 11/14/18	Tue 4/30/19
47	Bidding/GMP Development	Tue 2/12/19	Fri 3/15/19
48	GMP Review/Negotiation	Mon 3/18/19	Fri 3/29/19
49			
50	Detailed Design - Phase 3 South	Thu 2/8/18	Fri 8/16/19
51			
52	Design Activities - Outside Resources	Mon 6/25/18	Tue 4/30/19
53	Utility Preliminary Design	Mon 6/25/18	Tue 9/25/18
54	FPL Provision of Preliminary Equipment Locations	Mon 6/25/18	Tue 9/25/18
55	Utility Design and BCE Development	Wed 9/26/18	Fri 3/15/19
56	FPL Design and Preliminary Conduit Routing	Wed 9/26/18	Tue 12/4/18
57	AT&T and Comcast Design	Wed 10/17/18	Thu 1/17/19
58	Utility Agreement, BCE Development and Final FPL Design	Wed 12/19/18	Fri 3/15/19
59	Easement Coordination	Wed 9/26/18	Tue 4/30/19
60	Determine Easement Needs and Locations	Wed 9/26/18	Tue 10/30/18
61	Send Easement Request Letters to Property Owners	Wed 10/31/18	Mon 11/12/18
62	Procure Easements and Follow up	Tue 11/13/18	Tue 4/30/19
63			
64	Design Activities - Kimley-Horn Resources	Thu 2/8/18	Fri 8/16/19
65	Data Collection	Thu 2/8/18	Thu 11/1/18
66	Sunshine One-Call, Utility Coordination and Letter Request	Thu 2/8/18	Fri 3/16/18
67	Collect/Analyze Record Information	Thu 2/8/18	Fri 4/6/18
68	Site Survey	Thu 2/8/18	Mon 5/7/18
69	Geotechnical Investigation	Tue 5/1/18	Wed 8/1/18
70	Soft Dig Utility Locates	Fri 6/1/18	Thu 11/1/18
71	Site Visit / Determine Meter Locations	Fri 3/16/18	Fri 4/27/18
72	Existing Easement Research	Mon 2/19/18	Fri 3/16/18
73	Construction Documents	Tue 5/8/18	Fri 2/1/19
74	Utility Base Mapping	Tue 5/8/18	Mon 6/18/18
75	Utility Base Map Development	Tue 5/8/18	Tue 5/29/18
76	Utility Base Map Internal QC	Wed 5/30/18	Mon 6/4/18

Project: Phase 3 Detailed Design  
Date: Mon 9/24/18

Task

Split

Milestone

Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

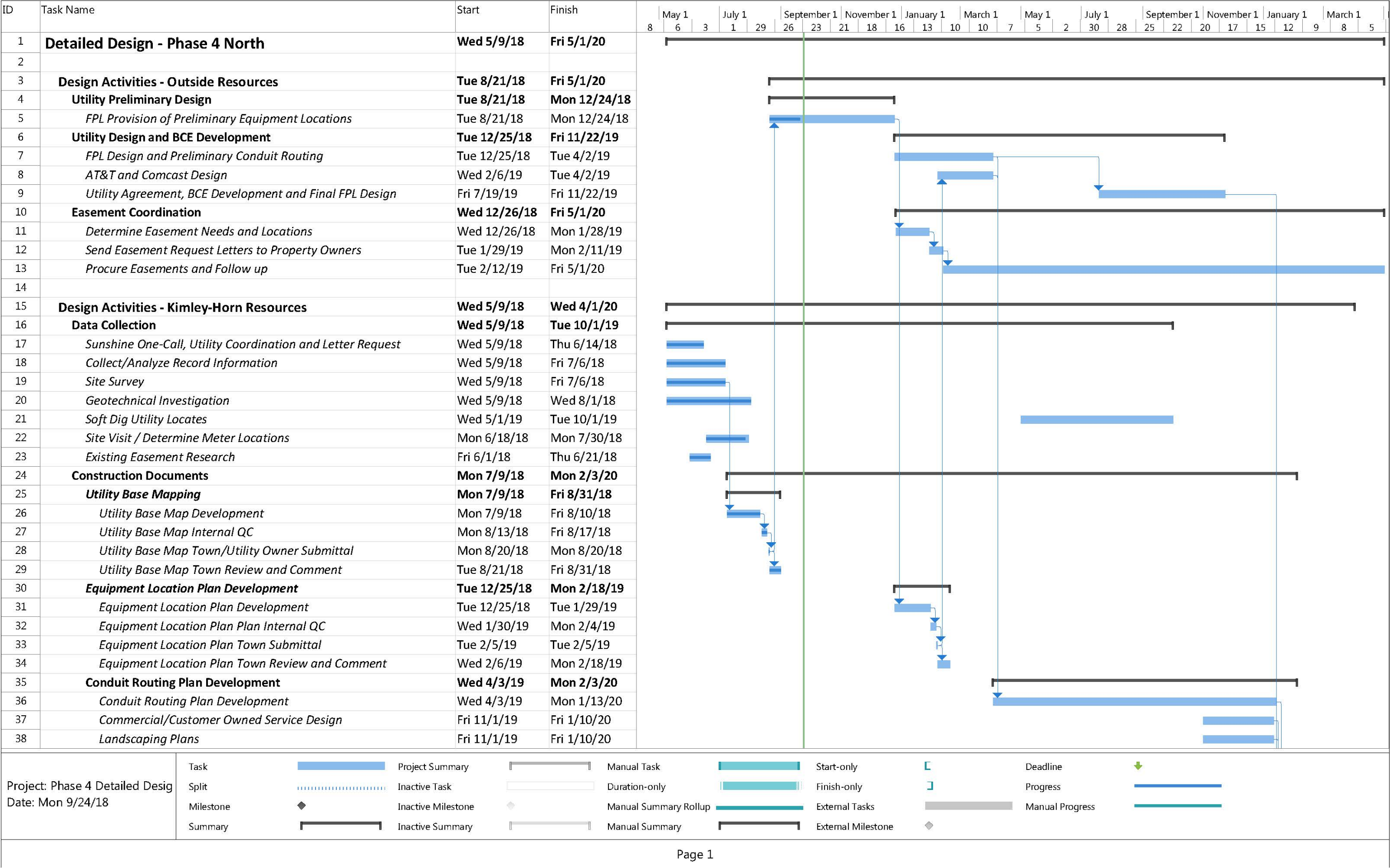
Progress

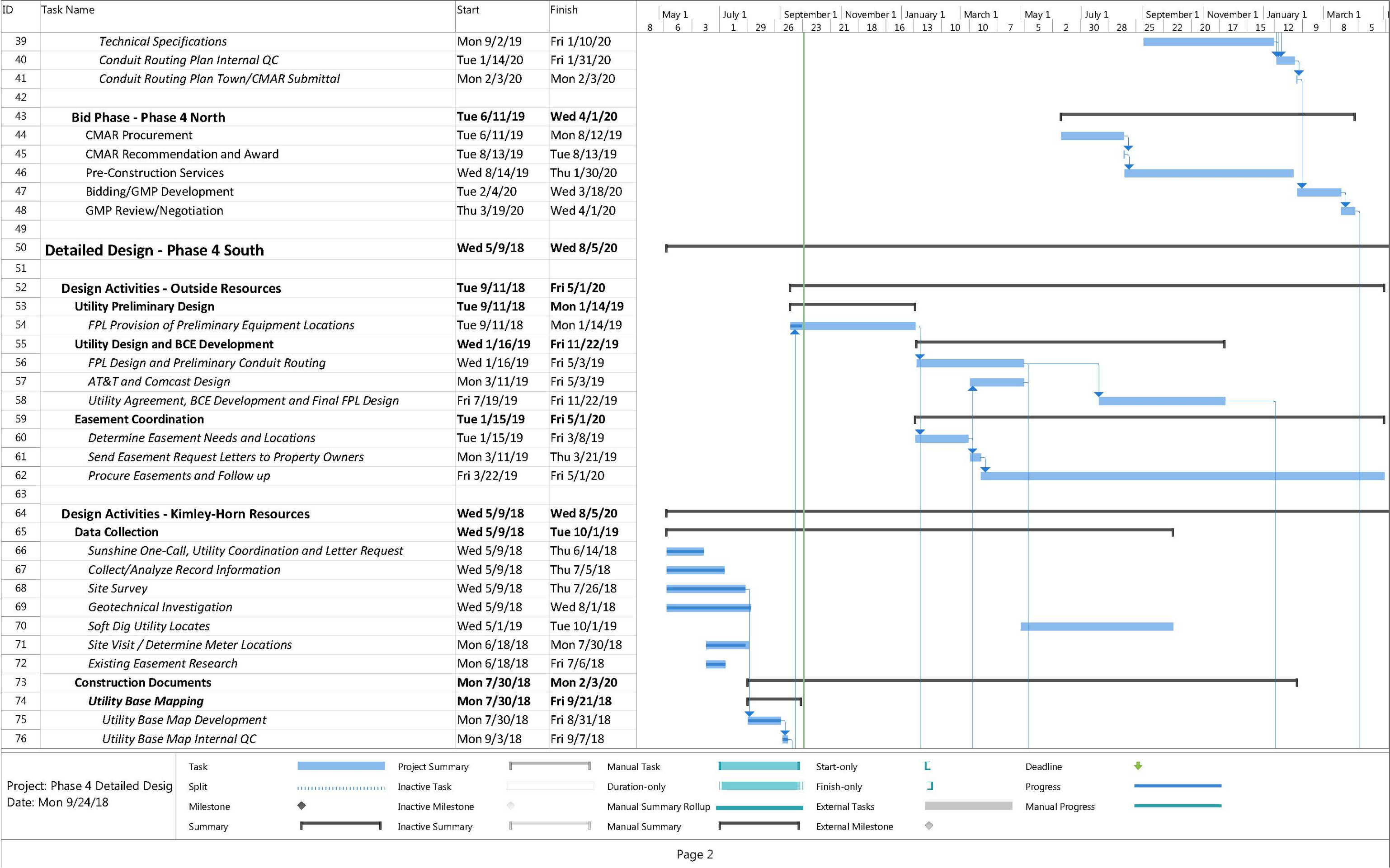
Manual Progress

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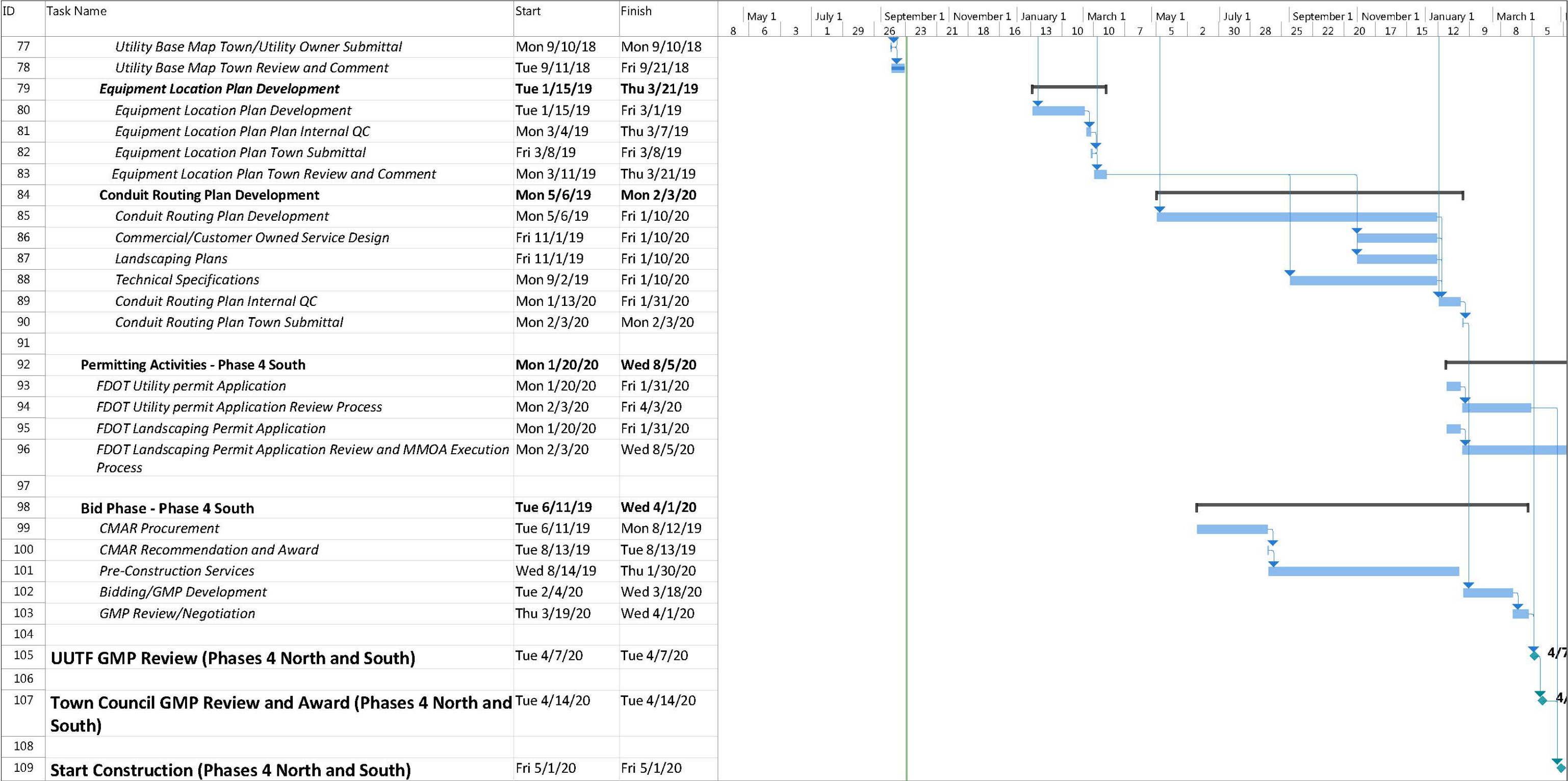






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Project: Phase 4 Detailed Design  
Date: Mon 9/24/18

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

**Vincent G. Burkhardt**  
President



# Executive Summary

Vincent G. Burkhardt  
President



Executive Summary  
For  
August 2018

Project Description

Townwide Overhead Utility Undergrounding  
Phase 1 North  
P.O. # 171308

Project Status:

During the month of August one of the crews continued with permanent pavement restoration mostly along the North Lake Way corridor. A second crew continued with tie ins to transformers, COMCAST boxes, and AT&T boxes. They also resumed setting of the concrete transformer pads, some transformers and switch gears at the south end of the project.

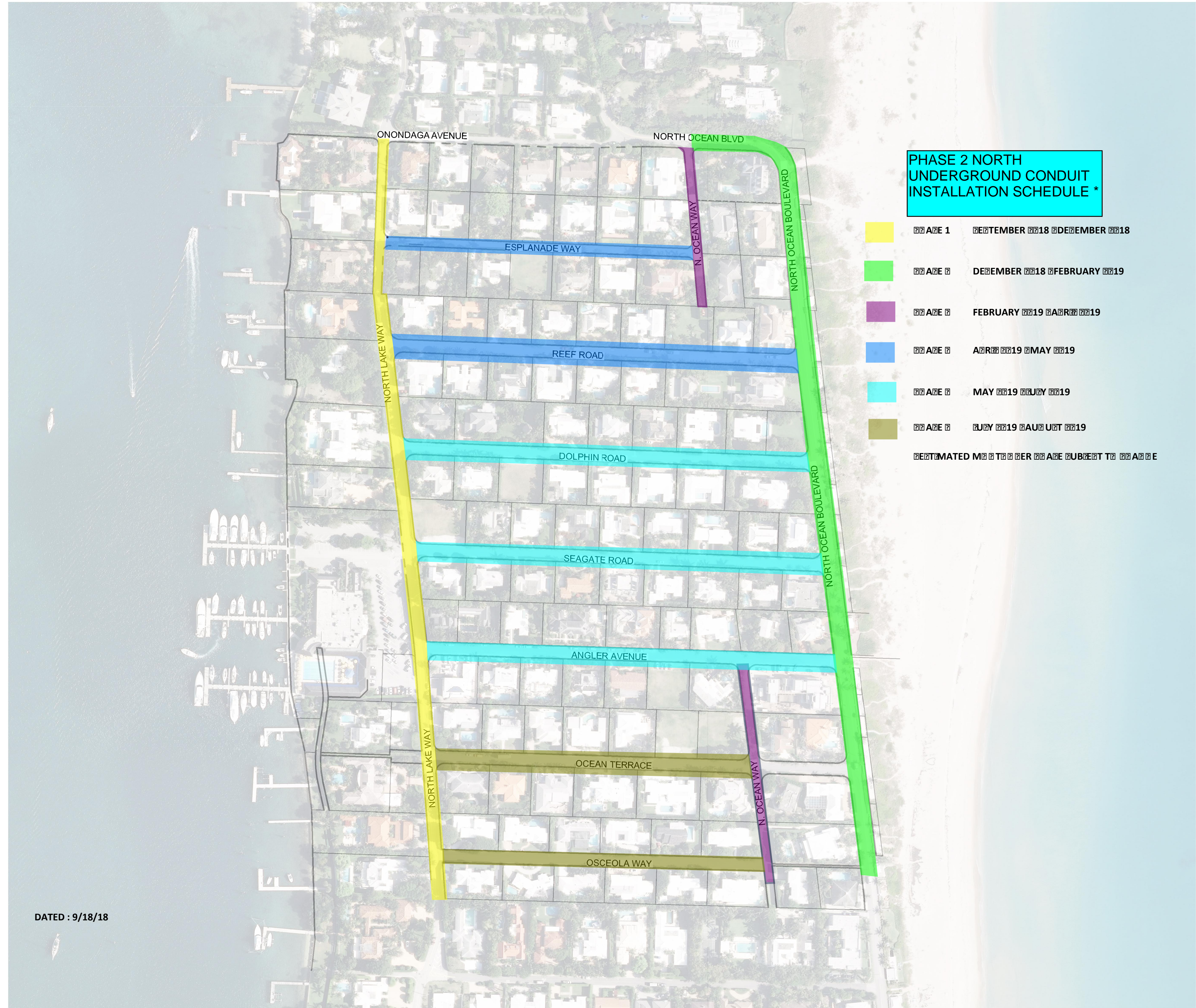
A third crew worked sporadically throughout the month pulling some of the main feeder and primary cables through the conduits.

The project continues to remain within budget and is on schedule.

TOWN-WIDE OVERHEAD UTILITY UNDERGROUNDING PHASE 1 NORTH SCHEDULE RFQ No. 2017-14																											
ID	Task Name	% Complete	Duration	Start	Finish									2018												2019	
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	Phase I - NORTH	60%	420 days?	Mon 6/12/17	Fri 1/18/19																						
2	Fully Executed Non-GAF Agreement	100%	23 days	Mon 6/12/17	Wed 7/12/17																						
3	Copy Of Executed Easements	100%	23 days	Mon 6/12/17	Wed 7/12/17																						
4	Fully Executed Applicant Installed Agreement With FPL	100%	23 days	Mon 6/12/17	Wed 7/12/17																						
5	Fully Executed R/O/W Agreement With FPL	100%	23 days	Mon 6/12/17	Wed 7/12/17																						
6	Fully Executed Agreement With COMCAST / AT & T	50%	23 days	Mon 6/12/17	Wed 7/12/17																						
7	Town Council Approval	100%	1 day	Tue 6/13/17	Tue 6/13/17																						
8	Award Prime Contract	100%	13 days	Wed 6/14/17	Fri 6/30/17																						
9	Permitting	100%	15 days	Mon 6/26/17	Fri 7/14/17																						
10	Customer Owned Service Connection Permitting	0%	15 days	Mon 6/26/17	Fri 7/14/17																						
11	Sub Contract Agreements	100%	23 days	Wed 6/14/17	Fri 7/14/17																						
12	Material Procurement	100%	11 days	Fri 6/30/17	Fri 7/14/17																						
13	Underground Conduit Installation, Primary/Secondary (FPL, ATT, Comcast)	100%	225 days	Mon 7/17/17	Fri 5/25/18																						
14	Feeder Splice Box Installation	100%	15 days	Thu 10/12/17	Wed 11/1/17																						
15	Set Transformers / Switch Cabinets (FPL)	85%	75 days	Sun 2/4/18	Thu 5/17/18																						
16	Secondary Services / Wire	65%	138 days	Tue 2/20/18	Thu 8/30/18																						
17	As-Built Submission / Review (FPL)	95%	47 days	Tue 2/20/18	Wed 4/25/18																						
18	Pull Wire / Terminations Primary (FPL)	75%	81 days	Tue 2/20/18	Tue 6/12/18																						
19	*ATT Rod Conduit, Pull Wire, Set Pedestals	10%	133 days	Tue 2/27/18	Thu 8/30/18																						
20	*Comcast Pull Wire, Set Pedestals	50%	133 days	Tue 2/27/18	Thu 8/30/18																						
21	Cut over / Overhead Removal (ATT/Comcast)	0%	45 days	Mon 9/3/18	Fri 11/2/18																						
22	Energize Underground (FPL)	0%	30 days	Mon 9/17/18	Fri 10/26/18																						
23	Secondary Service Switch Over (FPL)	0%	113 days	Mon 6/11/18	Wed 11/14/18																						
24	** Demo Overhead / Remove Poles (FPL) / Final Restoration	0%	90 days	Mon 9/17/18	Fri 1/18/19																						
25	*This Work Will Be Performed By ATT/COMCAST Crews, All Other Work Is Anticipated To Be Performed By A Subcontractor Under The Direction Of Burkhardt Construction, Inc.	0%																									
26	**This Work Must Be Performed By FPL Crews, All Other Work Is Anticipated To Be Performed By A Subcontractor Under The Direction Of Burkhardt Construction, Inc.	0%																									
27	Storm Drainage	100%	45 days	Mon 7/17/17	Fri 9/15/17																						
28	Water Main	100%	79 days	Sun 10/15/17	Wed 1/31/18																						









SAFETY

Monthly safety inspections are conducted by WT Regional Safety Director. Daily safety inspections conducted by onsite staff.

- ♦ 0 lost time incidents to date
- ♦ 1 recordable incident to date

CONSTRUCTION

- ♦ S. Ocean Blvd (Electrical Undergrounding Crew) - Current location just south of Sloan's Curve. Undergrounding Crews are 100% completed with feeder/primary conduit installation on S. Ocean Blvd. 100% of concrete vaults and pads for all equipment have been installed. 100% of cable pulled to date. Equipment terminations 85% completed. Street Lighting conduit and boxes completed.
- ♦ Ibis Isle AT&T/Comcast conduit installation is completed. Asphalt (drainage) pending.
- ♦ Ibis Isle Watermain replacement in progress and pending fan guard fabrication/installation.
- ♦ Phipps Ocean Park North Restroom demolition completed. Existing utilities have been cut and capped. Site rough grade completed. Utility rough ongoing.
- ♦ Phipps Ocean North Parking Lot Lighting conduit and box installation completed. Pending FPL pole delivery.

DOCUMENTATION:

RFIs:

- A. 28 RFIs issued to date
- B. 1 Outstanding RFI

SUBMITTALS:

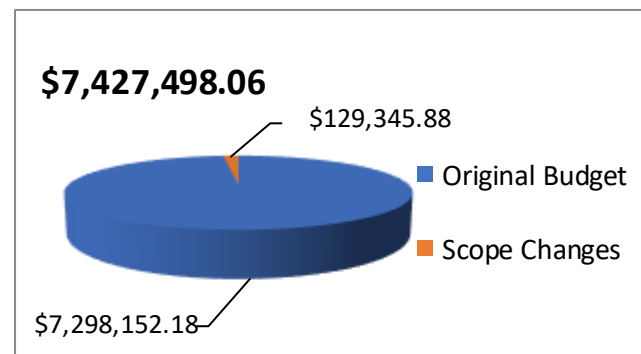
- A. 243+ Individual Submittals Processed
- B. 1 Submittal Package Currently Under Review
- C. 2 Submittal Packages Pending Submission to A/E

DRAWINGS: Added Scopes of Work

- A. Post GMP Phipps Ocean Park Restroom Building received January 18th from TOPB.
- B. Post GMP Phipps Ocean Park (North) Lighting—Undergrounding of electrical.
- C. Post GMP A-41 Wastewater Pump Station received January 12th from TOPB
- D. Post GMP Ibis Bridge Watermain Crossing received December 12, 2017 from KHA.

RELEVANT POTENTIAL CHANGES:

FINANCIALS—BUDGET VS. COSTS



Current GMP Amount	—	\$7,427,498.06
Approved Owner Initiated Scope Changes	—	\$129,345.88
Gross Billings to Date (\$)	—	\$4,514,710.94
Gross Billings to Date (%)	—	61%
Schedule % Completed	—	67%



SCHEDULE SUMMARY

S. Ocean Undergrounding -Sta 11+10 to Sta 243+66					
IMP	Item	Est	Act	Start Date	End Date
1514	ATT/Comcast review as-built/inspect/procure wire	20	15	01JUN18 A	08OCT18
IMP1567	ATT on hold - NO INSTALL PER TOWN	10	10	07SEP18 A	28SEP18
1530	ATT remove Overhead Facilities	10	10	30OCT18	12NOV18
1535	Comcast remove Overhead Facilities	10	10	30OCT18	12NOV18
Ibis Isle					
IMP 3013	Hold - No Install by Comcast per TOPB	30	20	25APR18 A	10OCT18
IMP 3012	Additional ATT & Comcast Conduit Install (WT)	10	0	04JUN18 A	31JUL18 A
3100	ATT/Comcast remove overhead facilities	20	20	11OCT18	07NOV18
3065	Energize Primary	10	10	22NOV18	05DEC18
3090	WT's Sub Converts Residential Services (FPL)	45	45	06DEC18	08FEB19
3110	Bid Unit #3 Substantial Completion	0	0		08FEB19
Street Lighting					
4030	FPL to Install Poles & Fixtures	40	15	14AUG18 A	03OCT18
4070	FPL to Setup Pedestrian Detour at Sidewalk	2	2	13SEP18	14SEP18
4020	FPL to Pull Wire/Terminations	15	15	04OCT18	24OCT18
4040	FPL to Energize Light Poles	10	10	25OCT18	07NOV18
Ibis Isle Watermain Crossing					
5423	Mobilization	0	0	13SEP18 A	
5429	Setup MOT/Locates	1	1	13SEP18	13SEP18
5431	Restrains/Unload & Fuse Bypass Pipe	1	1	14SEP18	14SEP18
5435	Build/Pour Thrust Blocks	1	1	17SEP18	17SEP18
5439	Install & Test tapping Sleeve and Valve	1	1	18SEP18	18SEP18
5442	Install 8x4 Wet Taps/Connect 4" Bypass	1	1	19SEP18	19SEP18
5445	Install 1 inch/10" (F/T) 18" G/W/Remove 1 S	1	1	20SEP18	20SEP18

SCHEDULE NOTES / IMPACTS:

- Street Lighting scope is 100% complete. FPL Street Lighting pole installation has begun. FPL wire installation to begin tentatively.
- Additional AT&T/Comcast Service Conduit at Ibis Isle scope is complete. AT&T direct installation currently on hold and Comcast to proceed per the Town.
- A-41 Pump Station pending delivery of I&C equipment and materials.



**Underground Utility Project Budget**  
**Project Financial Summary**  
**September 30, 2018**

Expenditures	Original OPC	Updated OPC	Budget	Actual	% Expended
<b>Phase 1</b>	\$ 12,620,000	\$ 12,900,000	\$ 12,642,040	\$ 10,239,803	81.0%
<b>Phase 2</b>	\$ 9,170,000	\$ 9,710,000	\$ 5,382,339	\$ 953,918	17.7%
<b>Phase 3</b>	\$ 10,910,000	\$ 11,360,000	\$ 1,222,094	\$ 643,970	52.7%
<b>Phase 4</b>	\$ 10,370,000	\$ 10,910,000	\$ 1,306,043	\$ 248,486	19.0%
<b>Phase 5</b>	\$ 14,090,000	\$ 14,850,000	\$ 81,087	\$ -	0.0%
<b>Phase 6</b>	\$ 16,820,000	\$ 17,690,000	\$ -	\$ -	
<b>Phase 7</b>	\$ 11,730,000	\$ 12,220,000	\$ -	\$ -	
<b>Phase 8</b>	\$ 12,300,000	\$ 12,890,000	\$ -	\$ -	
<b>Other</b>	\$ 570,000	\$ 980,414	\$ 980,414	\$ 1,296,638	132.3%
<b>Total Project Costs To Date*</b>	\$ 98,580,000	\$ 103,510,414	\$ 21,614,017	\$ 13,382,814	61.9%
* Updated OPC includes estimated AT&T credit					
<b>Total Other Costs Outside Underground Budget</b>			\$ 794,169	\$ 1,295,481	163.1%
<b>Total Underground Project Costs</b>			\$ 22,408,186	\$ 14,678,295	65.5%
<b>Opinion of Cost - Master Plan</b>			98,600,000		
<b>AT&amp;T and Comcast Additional Project Costs</b>			6,700,000		
<b>AT&amp;T Credit - TBD</b>					
<b>FPL Credit</b>			(3,300,000)		
<b>Total Project Budget</b>			\$ 102,000,000		
<b>% Budgeted/Encumbered To Date Project Costs</b>			21.19%		
<b>% Spent to Date - Project Costs</b>			13.12%		

**Project Revenues Received**

Revenues	Budget	Actual	% of Budget
<b>Revenues</b>			
Prepaid Assessments Reserved		\$ 11,581,599	0.0%
Assessment Revenue Reserved	\$ 5,080,000	\$ 4,254,133	83.7%
Commercial Paper	\$ 22,650,000	\$ 22,650,000	100.0%
Town Owned Property Prepaid Assessments	\$ 2,797,291	\$ 2,797,291	100.0%
Interest on Assessment Escrow	\$ -	\$ 199,786	
Interest	\$ 12,000	\$ 199,338	1661.1%
<b>1 Cent Sales Tax</b>	\$ 2,500,000	\$ 916,667	36.7%
<b>Other</b>			
Kevin McGann - CO #9		\$ 34,900	
Donations - Civic Association	\$ 49,250	\$ 49,250	100.0%
Transfer from (307) Fund CIP	\$ 760,200	\$ 760,200	100.0%
Transfer from (001) General Fund - PM Salary	\$ 130,000	\$ 119,167	
<b>Total Project Revenues</b>	\$ 33,978,741	\$ 43,562,330	128.2%

**Underground Utility Project Budget**  
**Phase 1 Project Costs**  
**September 30, 2018**

	Original OPC	Updated OPC	Budget	Actual	% Expended
<b>Project Engineering</b>					
Task 2.1 - Detailed Design North End	590,000		472,063	472,063	100.0%
Task 2.2 - Detailed Design South End	740,000		619,411	619,411	100.0%
Task 2.3 - Permitting Assistance			17,790	17,790	100.0%
Task 2.4 - Bid Phase Assistance			42,166	42,166	100.0%
Task 2.5 - Meetings - Design Phase			125,399	125,383	100.0%
Legal Sketch and Description - Easements			34,000	26,965	79.3%
<b>Subtotal Design Phase</b>	<b>\$ 1,330,000</b>	<b>\$ 1,400,000</b>	<b>\$ 1,310,829</b>	<b>\$ 1,303,778</b>	<b>99.5%</b>
<b>Construction Costs</b>					
<b>Phase 1 North Construction</b>					
Preconstruction			\$ 19,720	19,720	100.0%
Burkhardt Construction			\$ 3,598,144	3,017,052	83.9%
Street Light Conversion			\$ 26,273	26,273	100.0%
Change Order for AT&T and Comcast Conduit			\$ 371,201	291,884	78.6%
Utility Design Costs			\$ 15,595	15,595	100.0%
Utility Construction Costs (FPL, Comcast, AT&T)			\$ 476,776	187,499	39.3%
Construction Engineering (KH)			\$ 230,532	163,665	71.0%
	<b>\$ 4,210,000</b>	<b>\$ 4,390,000</b>	<b>\$ 4,738,241</b>	<b>\$ 3,721,689</b>	<b>78.5%</b>
<b>Phase 1 South Construction</b>					
Preconstruction			\$ 22,200	22,200	100.0%
Whiting Turner Construction			\$ 4,450,977	3,348,665	75.2%
Change Order for AT&T and Comcast Conduit			\$ 125,147	88,940	71.1%
Other Approved Change Orders - Additional soil borings at Ibis Isle			\$ 2,200	2,200	100.0%
Utility Design Costs			\$ 33,013	33,013	100.0%
Utility Construction Costs (FPL, Comcast, AT&T)			\$ 1,374,193	1,184,090	86.2%
Construction Engineering (KH)			\$ 283,880	228,562	80.5%
	<b>\$ 6,800,000</b>	<b>\$ 6,830,000</b>	<b>\$ 6,291,610</b>	<b>\$ 4,907,670</b>	<b>78.0%</b>
Easement Recording Fees			\$ 347	312	
<b>Legal Costs/Easement Acquisition - Jones Foster</b>	<b>\$ 280,000</b>	<b>\$ 280,000</b>	<b>\$ 301,359</b>	<b>\$ 306,355</b>	<b>101.7%</b>
<b>Total Phase 1 Costs</b>	<b>\$ 12,620,000</b>	<b>\$ 12,900,000</b>	<b>\$ 12,642,040</b>	<b>\$ 10,239,803</b>	<b>81.0%</b>



**Underground Utility Project Budget**  
**Phase 2 Project Costs**  
**September 30, 2018**

	Original OPC	Updated OPC	Budget	Actual	% Expended
<b>Phase 2 Design</b>					
<b>Kimley Horn</b>					
Task 1.1 Phase 2 North Design	335,000	360,000	\$ 281,304	\$ 281,304	100.0%
Task 1.2 Phase 2 South Design	400,000	420,000	\$ 335,353	\$ 318,585	95.0%
Task 1.3 Permitting Assistance North and South			\$ 12,674	\$ 5,070	40.0%
Task 1.4 Bid Phase Assistance North and South			\$ 40,565	\$ 32,842	81.0%
Task 1.6 Meetings North and South			\$ 136,617	\$ 67,734	49.6%
<b>Total Phase 2 Design</b>	<b>\$ 735,000</b>	<b>\$ 780,000</b>	<b>\$ 806,513</b>	<b>\$ 705,535</b>	<b>87.5%</b>
<b>Construction Costs</b>					
<b>Phase 2 North Construction</b>					
Preconstruction			\$ 35,000	31,970	91.3%
Burkhardt Construction			\$ 4,015,865		0.0%
Approved Change Orders			\$ -		
FPL Design Cost			\$ 11,759		0.0%
ATT Design Cost			\$ 5,000		0.0%
Comcast Design Cost				\$ 4,582	
Utility Costs (FPL, AT&T)				\$ 64,472	
Construction Engineering (KH)			\$ 248,121	\$ 5,276	2.1%
<b>Total Phase 2 North Construction</b>	<b>3,800,000</b>	<b>4,000,000</b>	<b>\$ 4,315,745</b>	<b>\$ 106,300</b>	<b>0.0%</b>
<b>Phase 2 South Construction</b>	<b>-</b>				
Preconstruction			\$ 35,000	-	
Whiting Turner Construction					
Approved Change Orders			\$ -		
FPL Design Cost			\$ 13,330	12,850	96.4%
ATT Design Cost			\$ 5,000		
Comcast Design Cost				\$ 4,582	
Utility Costs (FPL, Comcast, AT&T)				\$ -	
Construction Engineering (KH)					
<b>Total Phase 2 South Construction</b>	<b>4,435,000</b>	<b>4,730,000</b>	<b>\$ 53,330</b>	<b>\$ 17,432</b>	<b>32.7%</b>
<b>Easement Acquisition</b>	<b>200,000</b>	<b>200,000</b>			
<i>Kimley Horn Easement Assistance</i>					
Task 1.5 Easement Assistance North			\$ 64,936	\$ 52,401	80.7%
Task 1.5 Easement Assistance South			\$ 77,466	\$ 51,935	67.0%
<i>Surveys</i>					
Task 1.7 Legal Sketch North			\$ 14,020	\$ 13,568	96.8%
Task 1.7 Legal Sketch South			\$ 16,725	\$ 4,250	25.4%
Advertising				\$ 1,101	
Jones Foster - Legal			\$ 25,000	\$ 265	1.1%
American Acquisition Group			\$ -		
Temp Services			\$ 5,000		0.0%
Recording Costs			\$ 3,605	\$ 1,132	31.4%
<b>Total Easement Acquisition Costs</b>	<b>200,000</b>	<b>200,000</b>	<b>\$ 206,752</b>	<b>\$ 124,652</b>	<b>60.3%</b>
<b>Total Phase 2 Costs</b>	<b>\$9,170,000</b>	<b>\$9,710,000</b>	<b>\$ 5,382,339</b>	<b>\$ 953,918</b>	<b>17.7%</b>

**Underground Utility Project Budget**  
**Phase 3 Project Costs**  
**September 30, 2018**

	Original OPC	Updated OPC	Budget	Actual	% Expended
<b>Phase 3 Design</b>					
<b>Kimley Horn</b>					
Task 1.1 Phase 3 North Design	\$ 325,000	\$ 350,000	\$ 288,851	\$ 112,075	38.8%
Task 1.2 Phase 3 South Design	\$ 535,000	\$ 580,000	\$ 503,260	\$ 170,213	33.8%
Task 1.3 Permitting Assistance			\$ 13,739		0.0%
Task 1.4 Bid Phase Assistance			\$ 36,834		0.0%
Task 1.5 Meetings			\$ 101,652	\$ 525	0.5%
Deductive Change Order (Scope Change)			\$ (49,840)		0.0%
<b>Total Phase 3 Design</b>	<b>\$ 860,000</b>	<b>\$ 930,000</b>	<b>\$ 894,496</b>	<b>\$ 282,813</b>	<b>31.6%</b>
<b>Construction Costs</b>					
<b>Phase 3 North Construction</b>	<b>\$ 3,700,000</b>	<b>\$ 3,850,000</b>			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost			\$ 12,850		
ATT Design Cost					
Comcast Design Cost					
Construction Engineering (KH)					
Daniella Construction - Nightingale/LaPuerta - Townwide portion				\$ 243,470	
FPL Nightingale/LaPuerta - Townwide Portion				\$ 74,900	
Comcast Nightingale/LaPuerta - Townwide Portion				\$ 8,885	
AT&T Nightingale/LaPuerta Townwide Portion				\$ 30,555	
<b>Total Phase 3 North Construction</b>	<b>\$ 3,700,000</b>	<b>\$ 3,850,000</b>	<b>\$ 12,850</b>	<b>\$ 357,810</b>	<b>0.0%</b>
<b>Phase 3 South Construction</b>	<b>\$ 6,090,000</b>	<b>\$ 6,320,000</b>			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost			\$ 11,359		
ATT Design Cost					
Comcast Design Cost					
Construction Engineering (KH)					
<b>Total Phase 3 South Construction</b>	<b>\$ 6,090,000</b>	<b>\$ 6,320,000</b>	<b>\$ 11,359</b>	<b>\$ -</b>	<b>0.0%</b>
<b>Easement Acquisition</b>	<b>\$ 260,000</b>	<b>\$ 260,000</b>			
<i>Kimley Horn Easement Assistance</i>					
Task 1 Easement Assistance North and South			\$ 235,953	\$ 3,346	1.4%
<i>Surveys</i>					
Task Legal Sketch South			\$ 37,436		
Jones Foster - Legal			\$ 25,000		
American Acquisition Group					
Temp Services			\$ 5,000		
Recording Costs					
<b>Total Easement Acquisition Costs</b>	<b>\$ 260,000</b>	<b>\$ 260,000</b>	<b>\$ 303,389</b>	<b>\$ 3,346</b>	<b>1.1%</b>
<b>Total Phase 3 Costs</b>	<b>\$ 10,910,000</b>	<b>\$ 11,360,000</b>	<b>\$ 1,222,094</b>	<b>\$ 643,970</b>	<b>52.7%</b>

**Underground Utility Project Budget**  
**Phase 4 Project Costs**  
**September 30, 2018**

	Original OPC	Updated OPC	Budget	Actual	% Expended
<b>Phase 4 Design</b>					
<b>Kimley Horn</b>					
Task 1.1 Phase 4 North Design	\$ 402,000	\$ 435,000	\$ 312,317	\$ 109,311	35.0%
Task 1.2 Phase 4 South Design	\$ 413,000	\$ 435,000	\$ 451,284	\$ 135,385	30.0%
Task 1.3 Permitting Assistance			\$ 14,468	\$ -	0.0%
Task 1.4 Bid Phase Assistance			\$ 37,899	\$ -	0.0%
Task 1.6 Meetings			\$ 77,911	\$ 973	1.2%
<b>Total Phase 4 Design</b>	<b>\$ 815,000</b>	<b>\$ 870,000</b>	<b>\$ 893,879</b>	<b>\$ 245,669</b>	<b>27.5%</b>
<b>Construction Costs</b>					
<b>Phase 4 North Construction</b>	<b>4,605,000</b>	<b>4,820,000</b>			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost			\$ 12,757		
ATT Design Cost					
Comcast Design Cost					
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
<b>Total Phase 4 North Construction</b>	<b>\$ 4,605,000</b>	<b>\$ 4,820,000</b>	<b>\$ 12,757</b>	<b>\$ -</b>	<b>0.0%</b>
<b>Phase 4 South Construction</b>	<b>4,710,000</b>	<b>4,980,000</b>			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost			\$ 13,160		
ATT Design Cost					
Comcast Design Cost					
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
<b>Total Phase 4 South Construction</b>	<b>\$ 4,710,000</b>	<b>\$ 4,980,000</b>	<b>\$ 13,160</b>	<b>\$ -</b>	<b>0.0%</b>
<b>Easement Acquisition</b>	<b>\$ 240,000</b>	<b>\$ 240,000</b>			
<i>Kimley Horn Easement Assistance</i>					
Easement Assistance (KH)			\$ 280,270	\$ 2,816	1.0%
Easement Assistance (KH) -- Switches			\$ 62,780		
<i>Surveys</i>					
Legal Sketch			\$ 38,230		
Legal Sketch - Switches			\$ 4,967		
Jones Foster - Legal					
American Acquisition Group					
Temp Services					
Recording Costs					
<b>Total Easement Acquisition Costs</b>	<b>\$ 240,000</b>	<b>\$ 240,000</b>	<b>\$ 386,247</b>	<b>\$ 2,816</b>	<b>0.7%</b>
<b>Total Phase 4 Costs</b>	<b>\$ 10,370,000</b>	<b>\$ 10,910,000</b>	<b>\$ 1,306,043</b>	<b>\$ 248,486</b>	<b>19.0%</b>

**Underground Utility Project Budget**  
**Phase 5 Project Costs**  
**September 30, 2018**

	Original OPC	Updated OPC	Budget	Actual	% Expended
<b>Phase 5</b>					
<b>Kimley Horn</b>					
Task 1.1 Phase 5 North Design	\$ 520,000	\$ 560,000			0.0%
Task 1.2 Phase 5 South Design	\$ 600,000	\$ 640,000			0.0%
Task 1.3 Permitting Assistance North					0.0%
Task 1.3 Permitting Assistance South					0.0%
Task 1.4 Bid Phase Assistance North					0.0%
Task 1.4 Bid Phase Assistance South					0.0%
Task 1.6 Meetings North					0.0%
Task 1.6 Meetings South					0.0%
<b>Total Phase 5 Design</b>	<b>\$ 1,120,000</b>	<b>\$ 1,200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0.0%</b>
<b>Construction Costs</b>					
<b>Phase 5 North Construction</b>	<b>\$ 5,890,000</b>	<b>\$ 6,200,000</b>			
Preconstruction					
Construction					
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
<b>Total Phase 5 North Construction</b>	<b>\$ 5,890,000</b>	<b>\$ 6,200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0.0%</b>
<b>Phase 5 South Construction</b>	<b>\$ 6,750,000</b>	<b>\$ 7,120,000</b>			
Preconstruction					
Construction					
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
<b>Total Phase 5 South Construction</b>	<b>\$ 6,750,000</b>	<b>\$ 7,120,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0.0%</b>
<b>Easement Acquisition</b>	<b>\$ 330,000</b>	<b>\$ 330,000</b>			
<i>Kimley Horn Easement Assistance</i>					
Easement Assistance			\$ 75,696		
Surveys					
Legal Sketch			\$ 5,391		
Jones Foster - Legal					
American Acquisition Group					
Temp Services					
Recording Costs					
<b>Total Easement Acquisition Costs</b>	<b>\$ 330,000</b>	<b>\$ 330,000</b>	<b>\$ 81,087</b>	<b>\$ -</b>	<b>0.0%</b>
<b>Total Phase 5 Costs</b>	<b>\$14,090,000</b>	<b>\$14,850,000</b>	<b>\$ 81,087</b>	<b>\$ -</b>	<b>0.0%</b>

**Underground Utility Project Budget**  
**Other Project Costs**  
**September 30, 2018**

<b>Master Plan</b>	<b>Budget</b>	<b>Actual</b>	<b>% Expended</b>
Task 1.1 - Data Collection & GIS Base Mapping	\$ 88,021	\$ 88,021	100.0%
Tash 1.1a Data Collection for Future Communications	\$ 23,511	\$ 23,511	100.0%
Task 1.2 - Conceptual Design and Master Plan	\$ 161,756	\$ 161,756	100.0%
Task 1.3 - Project Sequencing and Phasing	\$ 31,244	\$ 31,244	100.0%
Task 1.4 - Assessment of Traffic Impacts	\$ 77,660	\$ 77,660	100.0%
Task 1.5 - Project Delivery Methods	\$ 17,448	\$ 17,448	100.0%
Task 1.6 - Master Plan Document	\$ 45,053	\$ 45,053	100.0%
Task 1.7 - Meetings Master Planning Phase	\$ 113,135	\$ 113,123	100.0%
Task 1.8 - Master Plan Second Half	\$ 40,067	\$ 40,067	100.0%
<b>Subtotal Master Planning</b>	<b>\$ 597,895</b>	<b>\$ 597,883</b>	<b>100.0%</b>
<b>Comcast Preplanning - Master Plan</b>		\$ 12,015	
<b>Community Outreach</b>	<b>\$ 282,519</b>	\$ 197,915	70.1%
<b>Peer Review Study - Patterson &amp; Dewar (\$50,000 Offsetting Revenue)</b>	<b>\$ 100,000</b>	\$ 100,000	100.0%
<b>Commercial Paper Issuance Cost</b>		\$ 200,675	
<b>Commercial Paper Fees</b>		\$ 10,907	
<b>Commercial Paper Interest</b>		\$ 177,243	
<b>Total Other Project Costs</b>	<b>\$ 980,414</b>	<b>\$ 1,296,638</b>	<b>132.3%</b>

**Related Costs Outside of the Underground Project Budget**

	<b>Budget</b>	<b>Actual</b>	<b>% Expended</b>
<b>Costs paid from (307) Fund CIP</b>			
<b>Underground City of Lake Worth Section</b>			
<b>Project Design</b>	\$ 25,231	\$ 24,430	96.8%
<b>Project Construction</b>	\$ 351,081	\$ 230,852	65.8%
<b>Project Construction Engineering</b>	\$ 11,607	\$ 9,286	80.0%
<b>Utility Cost (FPL, Comcast, AT&amp;T)</b>	\$ 134,333	\$ 127,531	94.9%
<b>Project Meeting Attendance</b>	\$ 3,334	\$ 2,914	87.4%
<b>Total Lake Worth Section</b>	\$ 525,586	\$ 395,012	75.2%
<b>Ibis Way PGD Improvements</b>	\$ 14,583	\$ 14,583	100.0%
<b>General Fund Costs</b>			
<b>Goldmacher v TPB Legal and Other Costs</b>		\$ 183,701	
<b>Kosberg v TPB Legal and Other Costs</b>		\$ 292,588	
<b>PBT Real Estate v TPB</b>		\$ 119,652	
<b>Gardner, Bist Bowden, Bush (Shel Wright)</b>		\$ 22,189	
<b>Project Manager -Pay and benefits</b>	\$ 130,000	\$ 160,811	123.7%
<b>Telecommunications Consultant</b>	\$ 89,000	\$ 83,210	93.5%
<b>Peter Brandt (Contract Negotiations)</b>	\$ 35,000	\$ 23,735	67.8%
<b>Total Related Costs Outside of the Budget</b>	<b>\$ 794,169</b>	<b>\$ 1,295,481</b>	<b>163.1%</b>

# U.S. Rate Forecasts

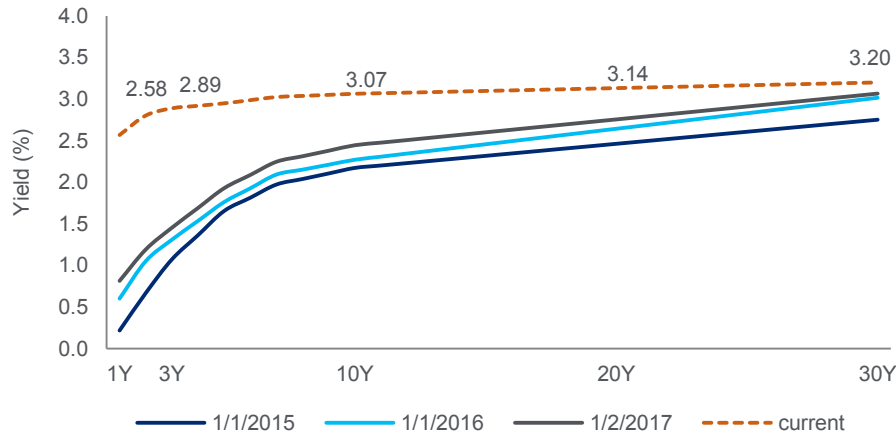
## 10-Year Treasury Yield Forecast

Citi forecasts a muted interest rate environment through the second half of 2018, while the street's is elevated



## US Treasury Yield Curve

The US Treasury curve bear steepened over the past week



## Rate Forecasts

5-Year Treasury	Current	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20
Citi's Forecast	2.95%	2.70%	2.80%	2.85%	2.85%	2.85%	2.85%
10-Year Treasury	Current	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20
Citi's Forecast	3.07%	2.75%	2.85%	2.85%	2.85%	2.85%	2.85%
Economists' Consensus		3.10%	3.20%	3.30%	3.32%	3.39%	3.40%
30-Year Treasury	Current	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20
Citi's Forecast	3.20%	2.90%	2.90%	2.85%	2.85%	2.85%	2.85%
Economists' Consensus		3.25%	3.35%	3.45%	3.50%	3.54%	3.57%
Fed Funds	Current	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20
Citi's Forecast	2.00%	2.50%	2.75%	3.00%	3.00%	3.00%	3.00%
Economists' Consensus		2.50%	2.75%	3.00%	3.00%	3.00%	3.00%

## Expectations of Next Fed Increase in Rates

After keeping rates steady at the last FOMC meeting, the Fed is likely to hike rates two more times, with the next hike likely to come this Wednesday

