

# TOWN OF PALM BEACH

Information for Town Council Meeting on: July 10, 2018

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TO: Mayor & Town Council

VIA: Kirk Blouin, Town Manager

FROM: Steven Stern, Project Manager

CC: H. Paul Brazil, P.E., Director of Public Works; Jane LeClainche, Director of Finance; Patricia Strayer, P.E., Town Engineer; Kevin Schanen, P.E., Kimley-Horn;

RE: **Key Project Updates**

DATE: June 29, 2018

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## 1. Communications

### Outreach:

- June 2018 Newsletter
- No community events to report this month.

## 2. Progress Report:

### Construction progress:

#### **Phase 1 North Construction (48% Complete):**

- Main conduit is complete, the large drilling machine and support equipment are no longer on site.
- The smaller drill machine is installing private side service lines.
- Transformer placements continue with tie ins, Comcast and AT&T boxes.
- Cable crews are pulling cables through the FPL conduits.

#### **Phase 1 South Construction (59% Complete):**

- South of Sloan's Curve, the Undergrounding Crews are 100% completed with feeder & primary conduit installation.

- Approx. 98% of concrete vaults and pads for transformers and switches have been installed.
- Pulling of feeder and primary cable, approximately 70% of cable pulled to date.
- Ibis Isle Undergrounding Crew has completed FPL primary, Comcast, and AT&T conduit and cable installation along Ibis Isle Road East and West.
- Transformer pads and splice boxes along Ibis Isle Road East and West completed.
- Conduit installation along Ibis Way per the FDEP permit for the subaqueous bridge crossing completed.
- Installation of AT&T and Comcast service conduit to each home from the ROW on Ibis Isle is near completion.
- Street Lighting crew is 100% complete with installation.

### **3. Project Financing**

On Wednesday June 27, 2018, a meeting was held to discuss the undergrounding project's long-term finance strategy.

In attendance were the Town Manager, Deputy Town Manager, Finance Director and Project Manager, Citi, the Town's Bond Attorney and Financial Consultants.

Consensus and recommendation is to proceed with General Obligation Bonds to fund the project.

A resolution for consideration will be drafted for the August or September 2018 Town Council.

### **4. Communications Service Provider Status Update**

The Town Manager and Staff will discuss progress to negotiate an improved Special Construction Agreement with the communication service providers.



## **Undergrounding of Utilities Project Monthly Progress Report July 2018**

### **Table of Contents**

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

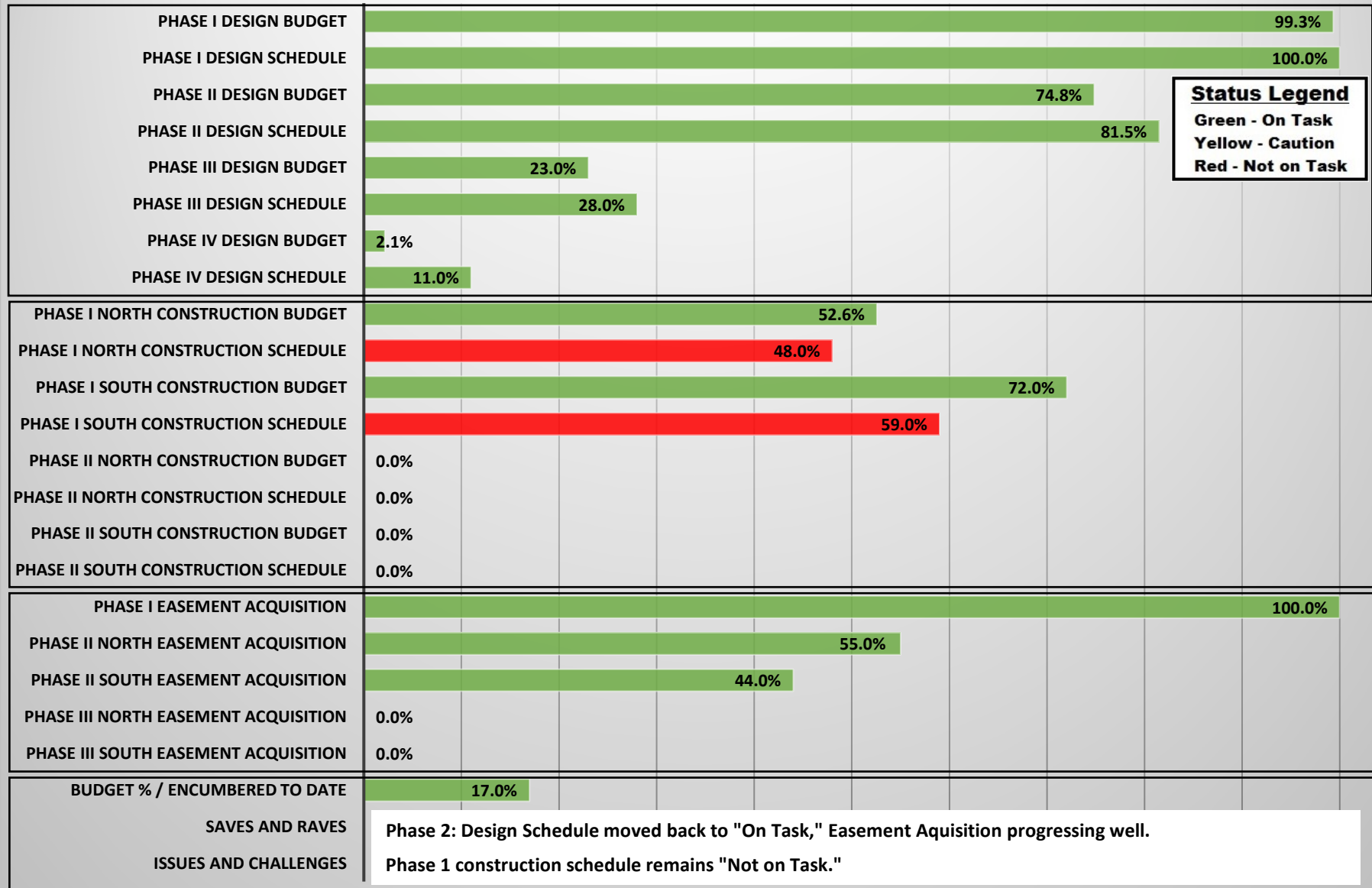
1. Project Dashboard
2. Kimley-Horn Progress Report Phase 2
3. Kimley Horn Progress Report Phase 3
4. Kimley Horn Progress Report Phase 4
5. Master Plan Gantt Chart
6. Phase 2 Design Gantt Chart
7. Phase 3 Design Gantt Chart
8. Phase 4 Design Gantt Chart
9. Burkhardt Executive Summary
10. Burkhardt Phase 1 North Gantt Chart
11. Whiting Turner Executive Summary
12. Project Financial Report
13. Interest Rate Forecast, June 22, 2018

#### Dashboard Notes:

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

# Town of Palm Beach - Underground Utility Project Dashboard - June '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**

**June 2018 Progress Report**

**Period: May 26, 2018 to June 25, 2018**

### **I. Scope Update**

#### **A. General**

- Schedule: Project schedule progress is shown below.
  - Phase 2 North Design is 89% complete
  - Phase 2 South Design is 74% complete
- Budget: Project is on budget as of June 15, 2018
  - Phase 2 North Design is at 70% of total task budget
  - Phase 2 South Design at 70% of total task budget
- Easement Status
  - Phase 2 North: 55% of easements approved
  - Phase 2 South: 44% of easements approved

#### **B. Detailed Design Phase**

- Subconsultant/utility owner coordination related to Phase 2 Design
- Continued field review of proposed equipment locations to determine existing field constraints and modify construction plans based on easement acquisition process
- Progress on development of Comcast, AT&T and FPL Conduit Plans for Phase 2 North and South
- Continued Development of Landscape Plans for Phase 2 North and South
- Submittal of Phase 2 North and South Bid Plans and Technical Specifications
- 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.
- Design coordination meeting with AT&T.
- Preparation and attendance at the June UUTF meeting.
- Prepare and submit legal sketches and descriptions for approved easements.

### **II. Upcoming Activities (June 26, 2018 – July 25, 2018)**

#### **A. Detailed Design Phase**

- Subconsultant/utility owner/construction manager coordination related to Phase 2 Bidding.
- Continue resident meetings to discuss easements in Phase 2 North and Phase 2 South.
- Submittal of the FDOT utility permit application for Phase 2 South.
- Progress Meeting Attendance



## **Town-Wide Undergrounding - Phase 3 Undergrounding**

**KHA Project #044063215**

**June 2018 Progress Report**

**Period: May 26, 2018 to June 25, 2018**

### **I. Scope Update**

#### **A. General**

- Schedule: Project schedule progress is shown below.
  - Phase 3 North Design is 29% complete
  - Phase 3 South Design is 27% complete
- Budget: Project is on budget as of June 15, 2018
  - Phase 3 North Design is at 18% of total task budget
  - Phase 3 South Design at 18% of total task budget
- Easement Status
  - Phase 3: N/A, will provide status when this work begins

#### **B. Detailed Design Phase**

- Subconsultant/utility owner coordination related to Phase 3 Undergrounding.
- Performed follow up field review to collect missing meter information.
- Coordination with surveyor to complete the Phase 3 survey files.
- Coordination with utility owners to receive utility record information.
- Development of the Phase 3 South Street Light Exhibit, progress on development of the same for the North area.
- Submittal of the utility base map for the Phase 3 South area.
- Progress Meeting Attendance

### **II. Upcoming Activities (June 26, 2018 – July 25, 2018)**

#### **A. Detailed Design Phase**

- Continued Subconsultant/utility owner coordination
- Finalize and submit the Phase 3 Street Light Exhibits for submittal to FPL
- Progress Meetings



## **Town-Wide Undergrounding - Phase 4 Undergrounding**

**KHA Project #044063219**

**June 2018 Progress Report**

**Period: May 26, 2018 to June 25, 2018**

### **I. Scope Update**

#### **A. General**

- Schedule: Project schedule progress is shown below.
  - Phase 4 North Design is 12% complete
  - Phase 4 South Design is 10% complete
- Budget: Project is on budget as of June 15, 2018
  - Phase 4 North Design is at 1.5% of total task budget
  - Phase 4 South Design at 1.5% of total task budget
- Easement Status
  - Phase 4: N/A, will provide status when this work begins

#### **B. Detailed Design Phase**

- Subconsultant/utility owner coordination related to Phase 4 Undergrounding
- Data Collection of existing utilities in project area and coordination with utility owners to receive record information.
- Coordination with Town staff related to meter review notifications.
- Coordination with geotechnical subconsultant for field work.
- Progress towards completion of field surveying of both north and south areas.
- Coordination with surveyor to receive plat information.
- Progress Meetings

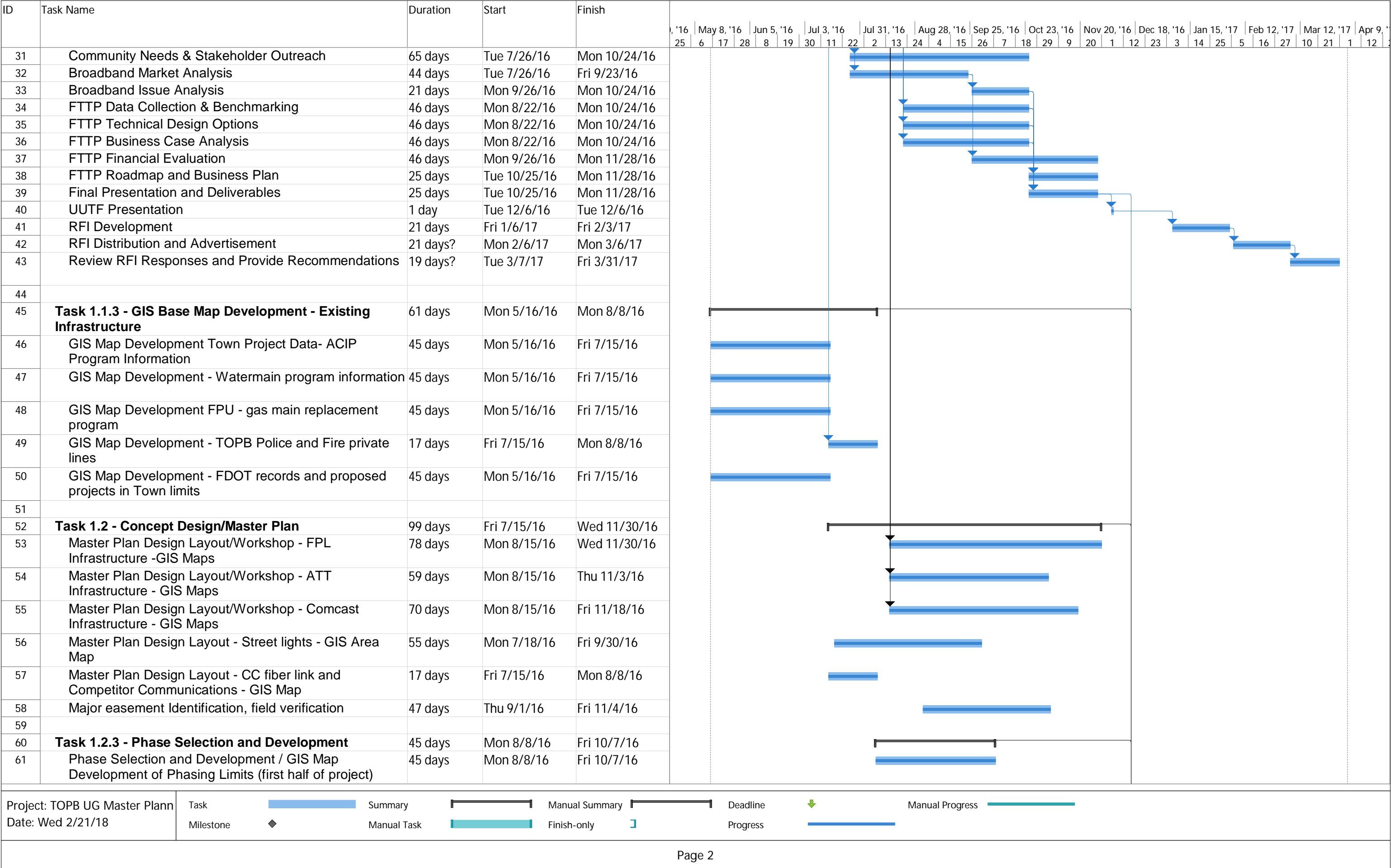
### **II. Upcoming Activities (June 26, 2018 – July 25, 2018)**

#### **A. Detailed Design Phase**

- Subconsultant/utility owner coordination related to Phase 4 Undergrounding
- Perform meter location field reviews for both north and south areas.
- Continued coordination with utility owners to receive utility record information.
- Existing Utility Easement Research in both the north and south areas.
- Continued coordination with geotechnical subconsultant to complete field work and report.
- Completion of field surveying in the north area. Continued progress in the south area.
- Progress towards development of the Phase 4 North utility base file.
- Progress Meetings

ID	Task Name	Duration	Start	Finish																												
1	Master Planning	230 days?	Mon 5/16/16	Fri 3/31/17																												
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	65 days?	Mon 5/16/16	Fri 8/12/16																												
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	23 days?	Wed 7/13/16	Fri 8/12/16																												
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 days?	Thu 7/14/16	Fri 8/12/16																												
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 days	Fri 7/15/16	Fri 8/12/16																												
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	104 days	Wed 7/6/16	Mon 11/28/16																												
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	180 days?	Mon 7/25/16	Fri 3/31/17																												
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																																					
62					Apr 25, '16	May 6, '16	May 17, '16	May 28, '16	Jun 8, '16	Jun 19, '16	Jul 3, '16	Jul 11, '16	Jul 22, '16	Jul 31, '16	Aug 13, '16	Aug 24, '16	Aug 31, '16	Sep 7, '16	Sep 18, '16	Sep 29, '16	Oct 9, '16	Oct 20, '16	Oct 31, '16	Nov 10, '16	Nov 20, '16	Dec 3, '16	Dec 14, '16	Dec 25, '16	Jan 5, '17	Jan 16, '17	Jan 27, '17	Feb 10, '17	Feb 21, '17	Mar 5, '17	Mar 16, '17	Mar 27, '17	Apr 9, '17	Apr 20, '17			
63	<b>Task 1.2.4 - Engineers Opinion of Probable Construction Cost</b>	63 days	Mon 9/5/16	Wed 11/30/16																																					
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>	125 days	Mon 5/16/16	Fri 11/4/16																																					
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>	78 days	Mon 8/15/16	Wed 11/30/16																																					
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>	45 days?	Wed 8/17/16	Tue 10/18/16																																					
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>	90 days	Mon 9/5/16	Fri 1/6/17																																					
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

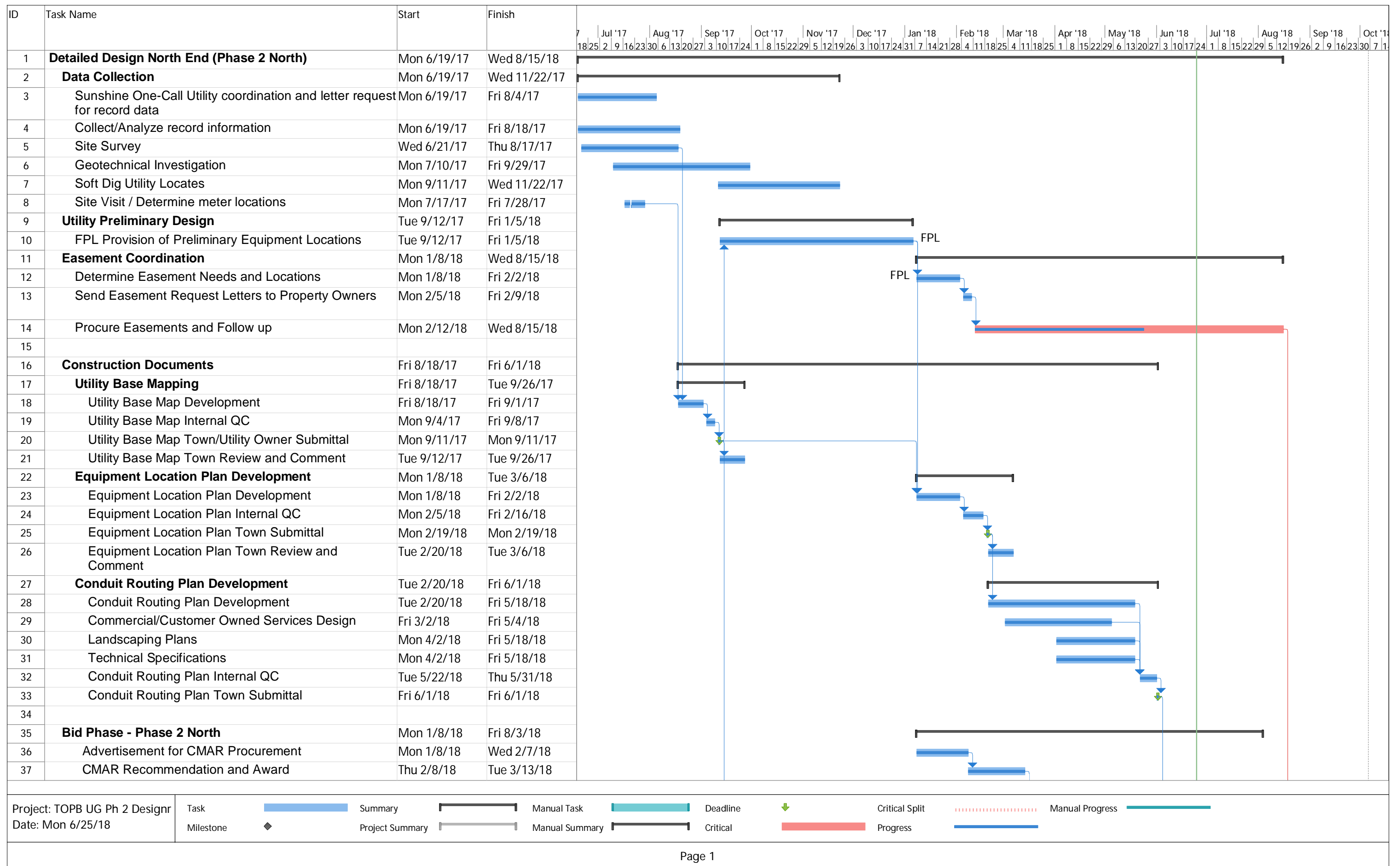
Manual Summary

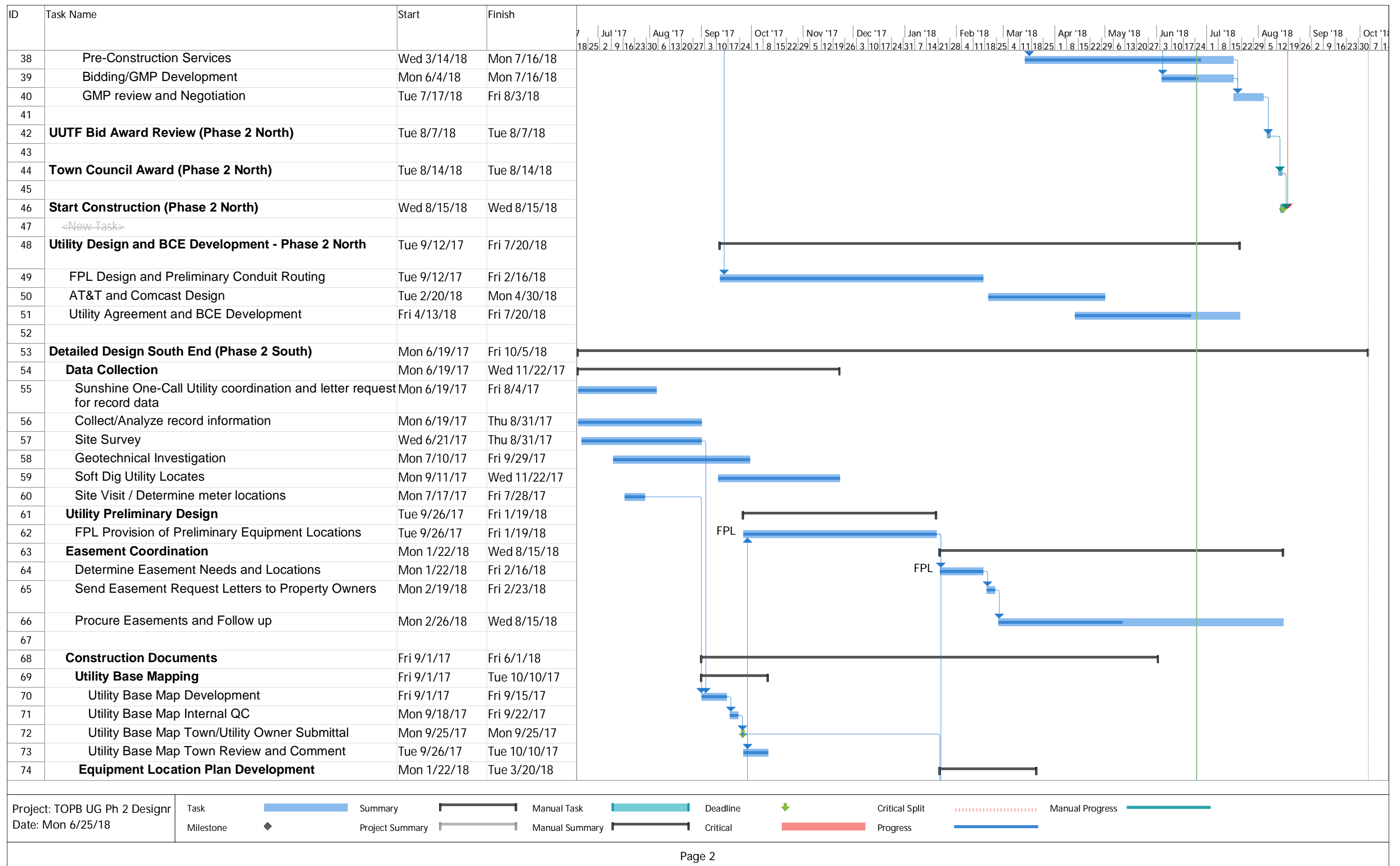
Finish-only

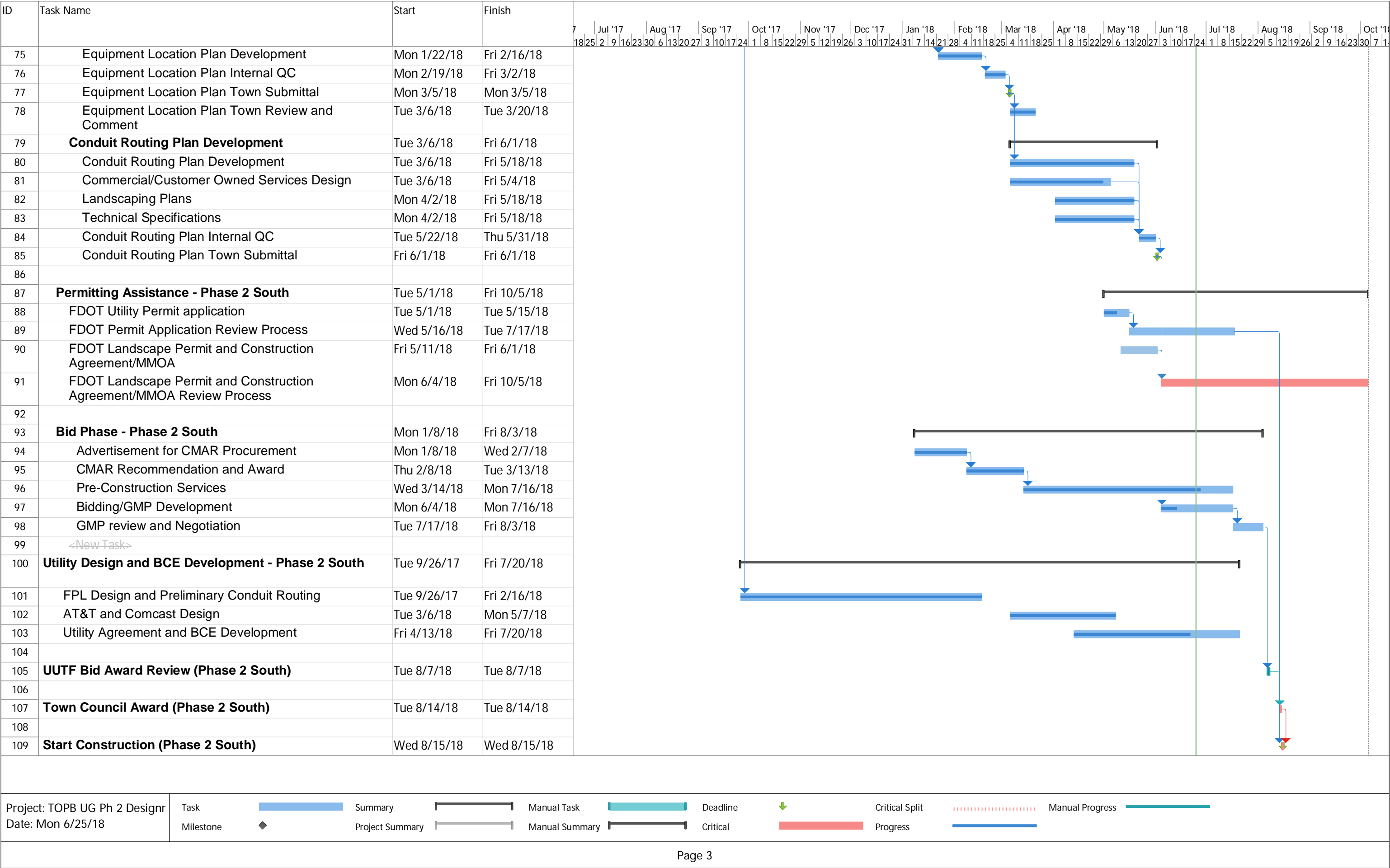
Deadline

Progress

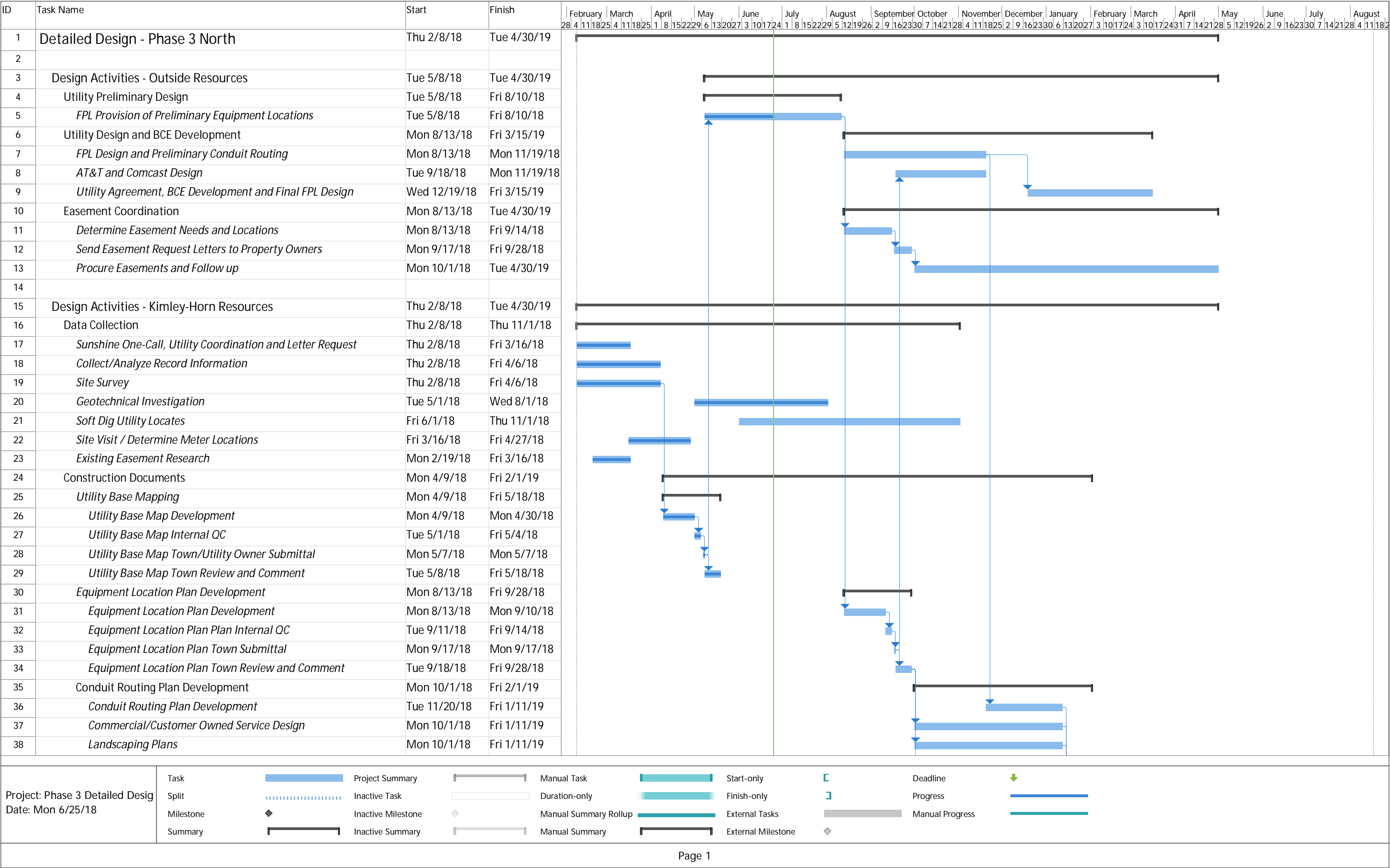
Manual Progress











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	Wed 6/6/18	Tue 4/30/19																																
53	Utility Preliminary Design	Wed 6/6/18	Mon 9/10/18																																
54	FPL Provision of Preliminary Equipment Locations	Wed 6/6/18	Mon 9/10/18																																
55	Utility Design and BCE Development	Tue 9/11/18	Fri 3/15/19																																
56	FPL Design and Preliminary Conduit Routing	Tue 9/11/18	Mon 11/19/18																																
57	AT&T and Comcast Design	Wed 10/17/18	Tue 12/18/18																																
58	Utility Agreement, BCE Development and Final FPL Design	Wed 12/19/18	Fri 3/15/19																																
59	Easement Coordination	Tue 9/11/18	Tue 4/30/19																																
60	Determine Easement Needs and Locations	Tue 9/11/18	Mon 10/15/18																																
61	Send Easement Request Letters to Property Owners	Tue 10/16/18	Fri 10/26/18																																
62	Procure Easements and Follow up	Mon 10/29/18	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 6/25/18

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

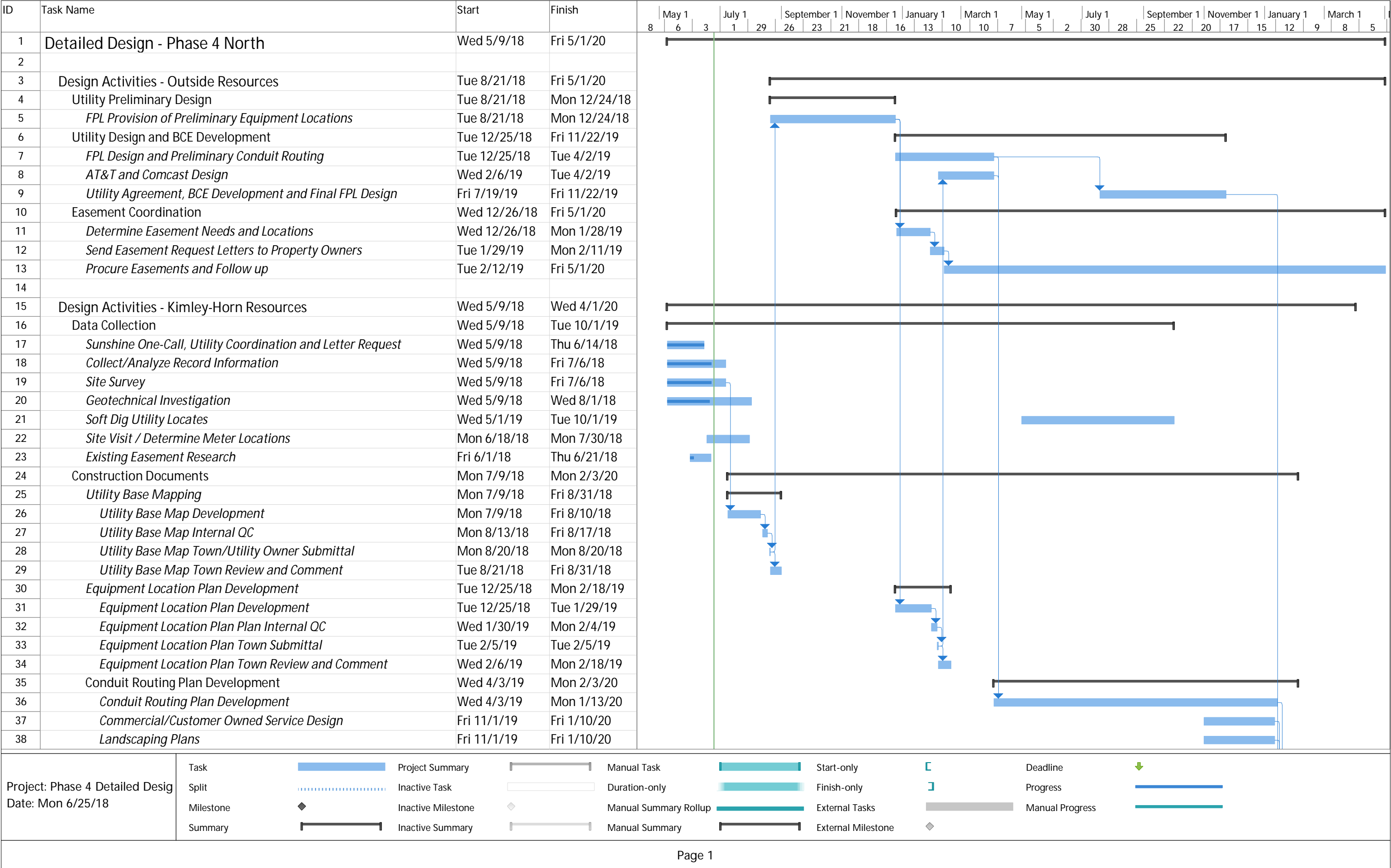
Progress

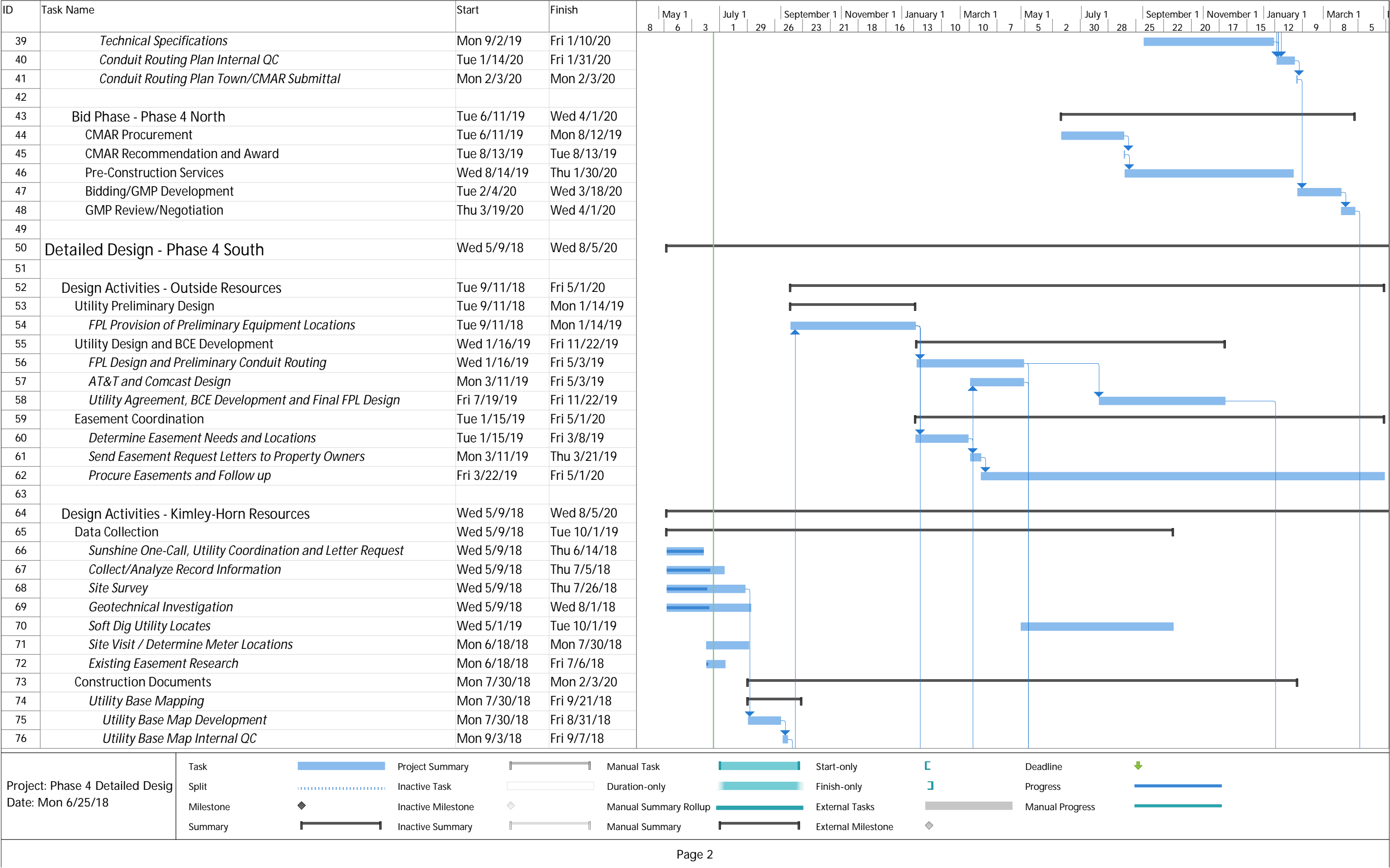
Manual Progress

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**Vincent G. Burkhardt**  
President



# Executive Summary

Vincent G. Burkhardt  
President



Executive Summary  
For  
May 2018

Project Description

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

Project Status:

In May the project took on a different look. For the most part the bigger drilling machine along with all of its support equipment was gone from the site. The smaller drill machine was there installing private side service lines where it was feasible. The second crew continued with tie ins to transformers, Comcast boxes, and AT&T boxes. The third crew mainly performed permanent pavement repair throughout the site.

The cable pulling crew began pulling cables through the newly installed FPL conduits and some of the transformers were set. We do not want residents to think that because some of the transformers are set that the power will be switched over, it is just part of the process of the entire project.

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

Vincent G. Burkhardt  
President



Executive Summary  
For  
May 2018

Project Description

Townwide Utility Undergrounding  
Onondaga Avenue & Laurie Lane Improvements  
Phase 1 North  
P.O. # 171308

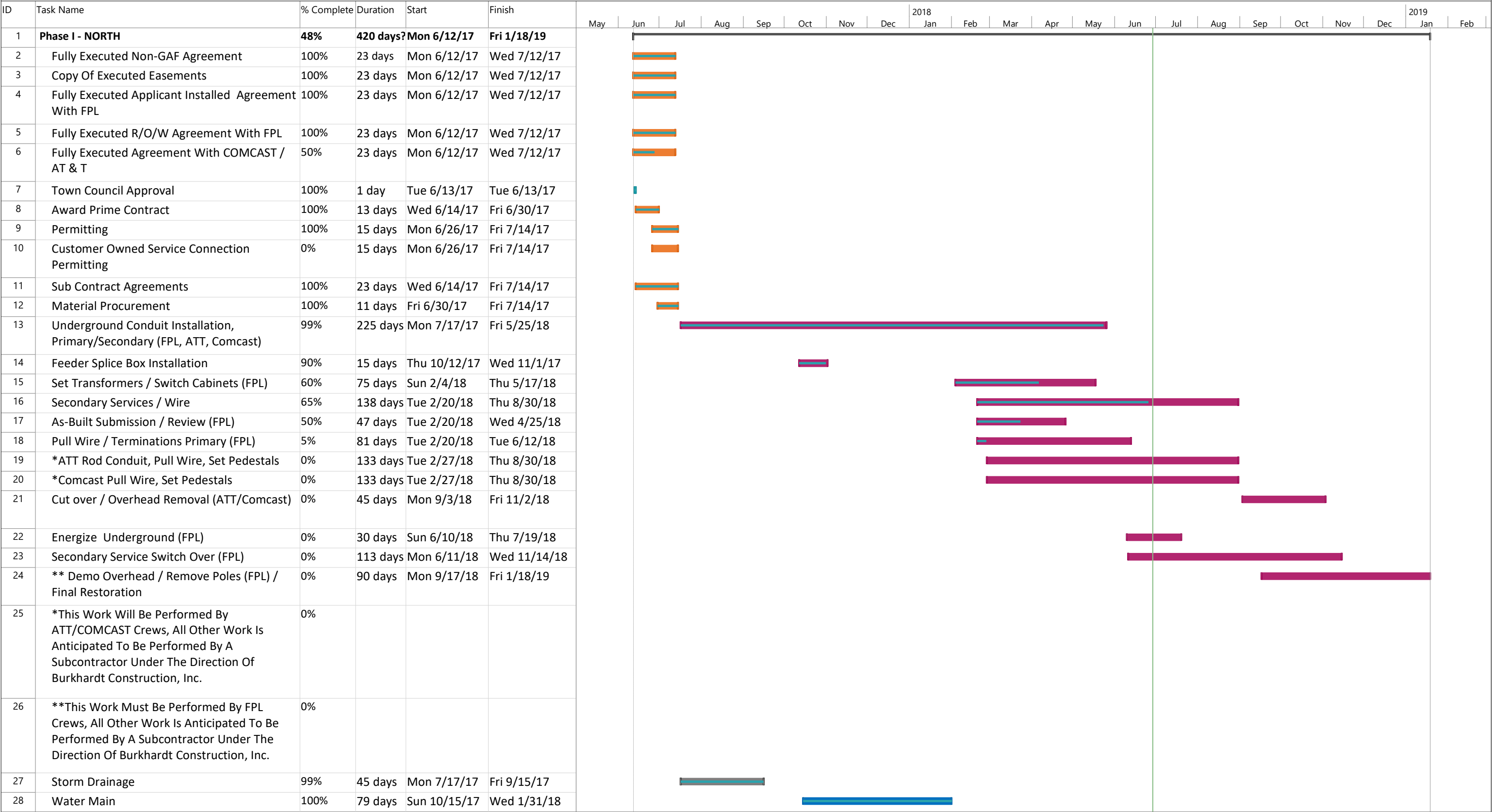
Project Status:

At the beginning of the month Florida Public Utilities began installing a new gas main and service lines along Onondaga Avenue. Once FPU's work was completed we mobilized to the site around the middle of the month.

The existing asphalt roadway along the north and south side was saw cut and removal of the asphalt along the south side of the road began. The curb pads were dug, densities taken, the rock curb pad was installed and densities were once again taken. The valley gutter curb along the south side of the roadway was poured by the end of the month. Although we had an excessive amount of rain during the month of May we continued to move forward with the work as much as possible and hoped to be further along with production but we cannot control the weather and will make the time up in June.

The project continues to stay within budget.

TOWN-WIDE OVERHEAD UTILITY UNDERGROUNDING  
PHASE 1 NORTH  
SCHEDULE  
RFQ No. 2017-14





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. Approx. 98% of concrete vaults and pads for transformers and switches have been installed. Pulling of feeder and primary cable started. Approximately 70% of cable pulled to date.
- ♦ Ibis Isle Undergrounding Crew has completed FPL primary, Comcast, and AT&T conduit and cable installation along Ibis Isle Road East and West. Transformer pads and splice boxes along Ibis Isle Road East and West completed. Conduit installation along Ibis Way per the FDEP permit for the subaqueous bridge crossing completed. Installation of AT&T and Comcast service conduit to each home from the ROW on Ibis Isle is near completion.
- ♦ Street Lighting crew approximately 100% complete with installation.

DOCUMENTATION:

RFIs:

- A. 21 RFIs issued to date
- B. 1 Outstanding RFI

SUBMITTALS:

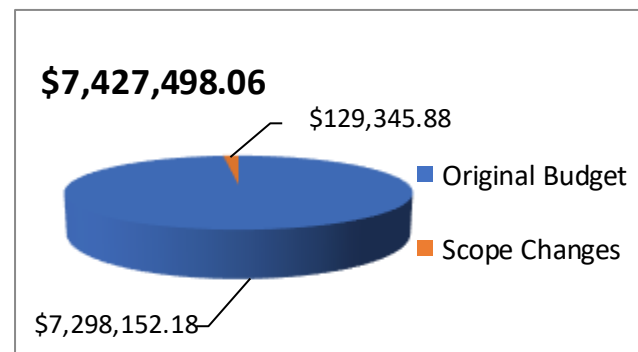
- A. 58+ Individual Submittals Processed
- B. 3 Submittal Package Currently Under Review
- C. 0 Submittal Packages Pending Submission to A/E

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.
- E. Phase 2 Undergrounding South received June 8, 2018 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 (\$)	—	\$4,052,636.08
Gross Billings to Date (%)	—	54%
Schedule % Completed	—	59%



SCHEDULE SUMMARY

S. Ocean Undergrounding -Sta 11+10 to Sta 243+66							
Item	Description	Quantity	Unit	Start Date	End Date		
1505	Comcast Conduit Installation	10	1	29AUG17 A	19JUN18		Comcast Conduit Installation
1521	WM Deflections	60	0	29AUG17 A	29DEC17 A		WM Deflections
1518	Line Stop Installations	50	0	04SEP17 A	29DEC17 A		Line Stop Installations
1543	FPL Feeder & Primary Conduits Installation	75	2	04SEP17 A	20JUN18		FPL Feeder & Primary Conduits Installation
1545	Service Sweep Condu /Set Equip Pads/Splice Boxes	75	2	27SEP17 A	20JUN18		Service Sweep Condu /Set Equip Pads/Splice Boxes
1512	FPL Feeder Splice Box Installation	20	2	23OCT17 A	20JUN18		FPL Feeder Splice Box Installation
1509	WT's Sub provide As-Built for ATT/Comcast	5	3	01NOV17 A	25JUN18		WT's Sub provide As-Built for ATT/Comcast
1550	FPL Transformer Pad Installation	20	2	01NOV17 A	22JUN18		FPL Transformer Pad Installation
1547	WT's Sub provides As-Built for FPL/TPB/K-H	5	1	29DEC17 A	21JUN18		WT's Sub provides As-Built for FPL/TPB/K-H
Ibis Isle							WT's Sub provides as-builts for FPL/TPB/KH
3055	WT's Sub provides as-builts for FPL/TPB/KH	5	0	03JAN18 A	23MAR18 A		WT's Sub provides as-builts for FPL/TPB/KH
3035	ATT/Comcast Reviews as-builts/inspect/procure	20	10	02APR18 A	02JUL18		ATT/Comcast Reviews as-builts/inspect/procure
IMP 3013	Hold - No Install by Comcast per TOPB	30	20	25APR18 A	17JUL18		Hold - No Install by Comcast per TOPB
IMP 3012	Additional ATT & Comcast Conduit Installation	10	3	04JUN18 A	21JUN18		Additional ATT & Comcast Conduit Installation
3100	ATT/Comcast remove overhead facilities	20	20	18JUL18	14AUG18		ATT/Comcast remove overhead facilities
3065	Energize Primary	10	10	29AUG18	11SEP18		Energize Primary
3090	WT's Sub Converts Residential Services (FPL)	45	45	12SEP18	13NOV18		WT's Sub Converts Residential
3110	Bid Unit #3 Substantial Completion	0	0		13NOV18		Bid Unit #3 Substantial Compl
3070	FPL Remove Overhead Conductors/Light/Poles	90	90	14NOV18	21MAR19		FPL Remove
3080	Final Landscape & Irrigation Restoration	45	45	08MAR19	09MAY19		Fin
3074	Curb Removal & Replacement	7	7	22MAR19	01APR19		Curb Ren

SCHEDULE NOTES / IMPACTS:

- Street Lighting scope is 100% complete. Completion pending FPL Street Lighting direct installation.
- Additional AT&T/Comcast Service Conduit at Ibis Isle scope is 98% complete. Restoration ongoing. AT&T and Comcast direct installation currently on hold per the Town.
- Scope of work associated with Ibis Isle Bridge Watermain Crossing to begin in mid-July.



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

Expenditures	Original OPC	Updated OPC	Budget	Actual	% Expended
<b>Phase 1</b>	\$ 12,620,000	\$ 12,900,000	\$ 12,642,040	\$ 8,626,218	68.2%
<b>Phase 2</b>	\$ 9,170,000	\$ 9,710,000	\$ 1,108,354	\$ 688,440	62.1%
<b>Phase 3</b>	\$ 10,910,000	\$ 11,360,000	\$ 1,192,094	\$ 564,573	47.4%
<b>Phase 4</b>	\$ 10,370,000	\$ 10,910,000	\$ 1,306,043	\$ 19,090	1.5%
<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	\$ 1,161,100	118.4%
<b>Total Project Costs To Date*</b>	\$ 98,580,000	\$ 103,510,414	\$ 17,310,031	\$ 11,059,422	63.9%
* Updated OPC includes estimated AT&T credit					
<b>Total Other Costs Outside Underground Budget</b>			\$ 793,197	\$ 1,087,646	137.1%
<b>Total Underground Project Costs</b>			\$ 18,103,229	\$ 12,147,067	67.1%
<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 - TBD</b>			(3,300,000)		
<b>Total Project Budget</b>			\$ 102,000,000		
<b>% Budgeted/Encumbered To Date Project Costs</b>			16.97%		
<b>% Spent to Date - Project Costs</b>			10.84%		

**Project Revenues Received**

Revenues	Budget	Actual	% of Budget
<b>Revenues</b>			
Prepaid Assessments Reserved		\$ 11,418,091	0.0%
Assessment Revenue Reserved	\$ 5,080,000	\$ 4,170,545	82.1%
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	\$ -	\$ 104,134	
Interest	\$ 12,000	\$ 94,754	789.6%
1 Cent Sales Tax	\$ 2,500,000	\$ 666,667	26.7%
<b>Other</b>			
Donations - Civic Association	\$ 49,250	\$ 49,250	100.0%
Transfer from (307) Fund CIP	\$ 760,200	\$ 760,200	100.0%
<b>Total Project Revenues</b>	\$ 33,848,741	\$ 42,710,932	126.2%

**Underground Utility Project Budget**  
**Phase 1 Project Costs**  
**June 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	25,315	74.5%
<b>Subtotal Design Phase</b>	<b>\$ 1,330,000</b>	<b>\$ 1,400,000</b>	<b>\$ 1,310,829</b>	<b>\$ 1,302,128</b>	<b>99.3%</b>
<b>Construction Costs</b>					
<b>Phase 1 North Construction</b>					
Preconstruction			\$ 19,720	19,720	100.0%
Burkhardt Construction			\$ 3,598,144	2,123,252	59.0%
Street Light Conversion			\$ 26,273	26,273	100.0%
Change Order for AT&T and Comcast Conduit			\$ 371,201	-	0.0%
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	118,303	51.3%
	<b>\$ 4,210,000</b>	<b>\$ 4,390,000</b>	<b>\$ 4,738,241</b>	<b>\$ 2,490,642</b>	<b>52.6%</b>
<b>Phase 1 South Construction</b>					
Preconstruction			\$ 22,200	22,200	100.0%
Whiting Turner Construction			\$ 4,450,977	3,113,217	69.9%
Change Order for AT&T and Comcast Conduit			\$ 125,147	-	0.0%
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	177,144	62.4%
	<b>\$ 6,800,000</b>	<b>\$ 6,830,000</b>	<b>\$ 6,291,610</b>	<b>\$ 4,531,864</b>	<b>72.0%</b>
Easement Recording Fees			\$ 270		
<b>Legal Costs/Easement Acquisition - Jones Foster</b>	<b>\$ 280,000</b>	<b>\$ 280,000</b>	<b>\$ 301,359</b>	<b>\$ 301,584</b>	<b>100.1%</b>
<b>Total Phase 1 Costs</b>	<b>\$ 12,620,000</b>	<b>\$ 12,900,000</b>	<b>\$ 12,642,040</b>	<b>\$ 8,626,218</b>	<b>68.2%</b>

**Underground Utility Project Budget**  
**Phase 2 Project Costs**  
**June 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	\$ 253,174	90.0%
Task 1.2 Phase 2 South Design	400,000	420,000	\$ 335,353	\$ 301,818	90.0%
Task 1.3 Permitting Assistance North and South			\$ 12,674	\$ -	0.0%
Task 1.4 Bid Phase Assistance North and South			\$ 40,565	\$ -	0.0%
Task 1.6 Meetings North and South			\$ 136,617	\$ 48,599	35.6%
<b>Total Phase 2 Design</b>	<b>\$ 735,000</b>	<b>\$ 780,000</b>	<b>\$ 806,513</b>	<b>\$ 603,590</b>	<b>74.8%</b>
<b>Construction Costs</b>					
<b>Phase 2 North Construction</b>					
Preconstruction			\$ 35,000	-	
Burkhardt Construction					
Approved Change Orders			\$ -		
FPL Design Cost			\$ 11,759		
ATT Design Cost			\$ 5,000		
Comcast Design Cost					
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
<b>Total Phase 2 North Construction</b>	<b>3,800,000</b>	<b>4,000,000</b>	<b>\$ 51,759</b>	<b>\$ -</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		
ATT Design Cost			\$ 5,000		
Comcast Design Cost					
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>\$ -</b>	<b>0.0%</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	\$ 45,607	70.2%
Task 1.5 Easement Assistance South			\$ 77,466	\$ 30,823	39.8%
<i>Surveys</i>					
Task 1.7 Legal Sketch North			\$ 14,020	\$ 7,080	50.5%
Task 1.7 Legal Sketch South			\$ 16,725	\$ -	0.0%
Advertising				\$ 1,101	
Jones Foster - Legal			\$ -		
American Acquisition Group			\$ -		
Temp Services			\$ 20,000		
Recording Costs			\$ 3,605	\$ 239	
<b>Total Easement Acquisition Costs</b>	<b>200,000</b>	<b>200,000</b>	<b>\$ 196,752</b>	<b>\$ 84,850</b>	<b>43.1%</b>
<b>Total Phase 2 Costs</b>	<b>\$9,170,000</b>	<b>\$9,710,000</b>	<b>\$ 1,108,354</b>	<b>\$ 688,440</b>	<b>62.1%</b>

**Underground Utility Project Budget**  
**Phase 3 Project Costs**  
**June 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	\$ 84,057	29.1%
Task 1.2 Phase 3 South Design	\$ 535,000	\$ 580,000	\$ 503,260	\$ 121,581	24.2%
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	\$ 225	0.2%
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>\$ 205,862</b>	<b>23.0%</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	\$ 901	0.4%
<i>Surveys</i>					
Task Legal Sketch South			\$ 37,436		
Jones Foster - Legal					
American Acquisition Group					
Temp Services					
Recording Costs					
<b>Total Easement Acquisition Costs</b>	<b>\$ 260,000</b>	<b>\$ 260,000</b>	<b>\$ 273,389</b>	<b>\$ 901</b>	<b>0.3%</b>
<b>Total Phase 3 Costs</b>	<b>\$ 10,910,000</b>	<b>\$ 11,360,000</b>	<b>\$ 1,192,094</b>	<b>\$ 564,573</b>	<b>47.4%</b>

**Underground Utility Project Budget**  
**Phase 4 Project Costs**  
**June 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	\$ 7,808	0.0%
Task 1.2 Phase 4 South Design	\$ 413,000	\$ 435,000	\$ 451,284	\$ 11,282	0.0%
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		0.0%
<b>Total Phase 4 Design</b>	<b>\$ 815,000</b>	<b>\$ 870,000</b>	<b>\$ 893,879</b>	<b>\$ 19,090</b>	<b>0.0%</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		
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>\$ -</b>	<b>0.0%</b>
<b>Total Phase 4 Costs</b>	<b>\$ 10,370,000</b>	<b>\$ 10,910,000</b>	<b>\$ 1,306,043</b>	<b>\$ 19,090</b>	<b>1.5%</b>

**Underground Utility Project Budget**  
**Phase 5 Project Costs**  
**June 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**  
**June 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	\$ 42,800	95.0%
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>\$ 595,630</b>	<b>99.6%</b>
<b>Comcast Preplanning - Master Plan</b>		\$ 12,015	
<b>Community Outreach</b>	<b>\$ 282,519</b>	\$ 197,551	69.9%
<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>		\$ 44,322	
<b>Total Other Project Costs</b>	<b>\$ 980,414</b>	<b>\$ 1,161,100</b>	<b>118.4%</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	\$ 215,735	61.4%
<b>Project Construction Engineering</b>	\$ 11,607	\$ 7,545	65.0%
<b>Utility Cost (FPL, Comcast, AT&amp;T)</b>	\$ 134,333	\$ 127,531	94.9%
<b>Project Meeting Attendance</b>	\$ 2,362	\$ 2,362	100.0%
<b>Total Lake Worth Section</b>	<b>\$ 524,614</b>	<b>\$ 377,603</b>	<b>72.0%</b>
<b>Ibis Way PGD Improvements</b>	<b>\$ 14,583</b>	<b>\$ 14,583</b>	<b>100.0%</b>
<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>		\$ 172,949	
<b>PBT Real Estate v TPB</b>		\$ 96,522	
<b>Gardner, Bist Bowden, Bush (Shel Wright)</b>		\$ 7,148	
<b>Project Manager -Pay and benefits</b>	\$ 130,000	\$ 128,195	98.6%
<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>\$ 793,197</b>	<b>\$ 1,087,646</b>	<b>137.1%</b>

# U.S. Rate Forecasts

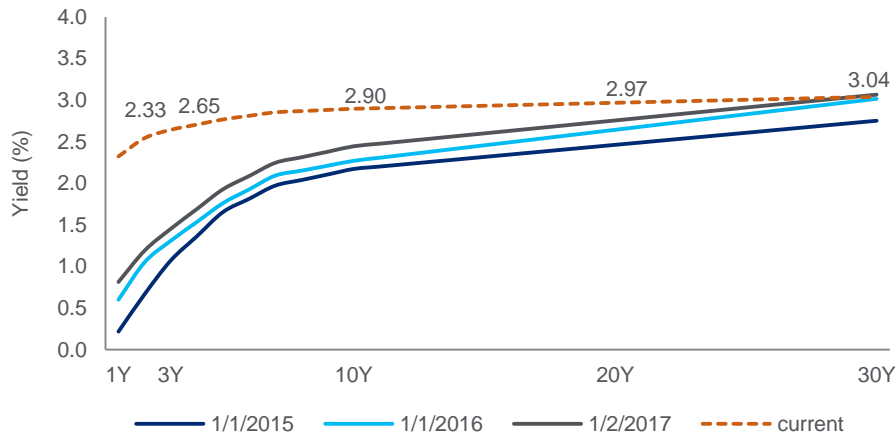
## 10-Year Treasury Yield Forecast

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



## US Treasury Yield Curve

Treasuries ended the week stronger on renewed escalation of international trade tensions



## Rate Forecasts

5-Year Treasury	Current	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19
Citi's Forecast	2.77%	2.60%	2.60%	2.60%	2.65%	2.70%	2.75%

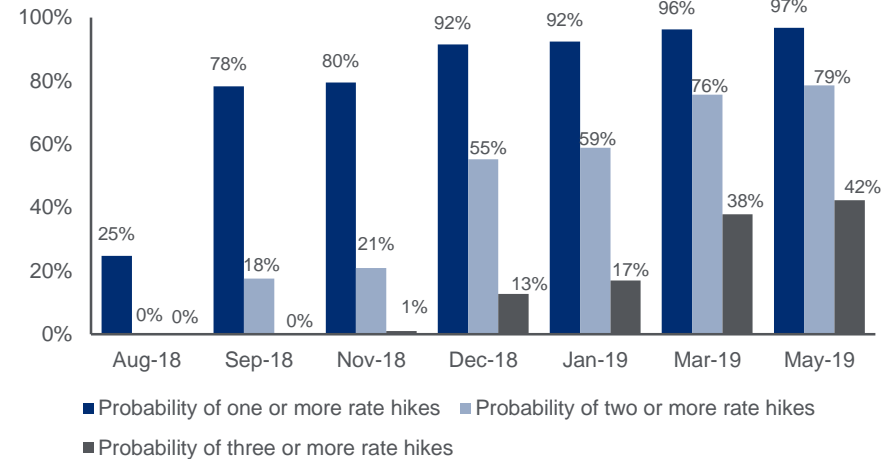
10-Year Treasury	Current	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19
Citi's Forecast	2.90%	2.65%	2.65%	2.65%	2.75%	2.80%	2.85%
Economists' Consensus		3.10%	3.20%	3.29%	3.30%	3.40%	3.40%

30-Year Treasury	Current	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19
Citi's Forecast		2.90%	2.90%	2.95%	3.10%	3.15%	3.15%
Economists' Consensus	3.04%	3.26%	3.35%	3.46%	3.50%	3.60%	3.60%

Fed Funds	Current	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19
Citi's Forecast	2.00%	2.25%	2.25%	2.50%	2.75%	3.00%	3.00%
Economists' Consensus		2.25%	2.50%	2.63%	2.75%	3.00%	3.00%

## Expectations of Next Fed Increase in Rates

After raising rates for a second time in 2018, the Fed upgraded their forecast to four total increases in 2018, with the next hike likely to come in September



Source: Current rates and expectation of Fed hike as of June 22, 2018; Citi forecasts as of June 20, 2018; Bloomberg forecasts as of June 22, 2018.