

Engineering

Element	Summary Views	Detail Views
Scorecard	<ul style="list-style-type: none"> • Landing Page 	
Objectives		<ul style="list-style-type: none"> • Major Engineering Projects
Outcome Measures		<ul style="list-style-type: none"> • >= 90% stormwater control measures in compliance with standards • >= 85% town streets with a PCI >= 80 • >= 90% of projects accepted with less than 10 defects found at end of warranty period • >= 95% of reported public flooding issues acknowledged and assessed within 2 business days
Initiatives	<ul style="list-style-type: none"> • Department Initiatives 	<ul style="list-style-type: none"> • Morrisville-Carpenter Road Improvements Project • Historic Christian Church Parking Lot • Indian Creek Greenway Connector • Fairview Avenue and Green Drive Culvert Replacement • Pugh House Rehabilitation • Update and publish the EDCM to reflect new and updated technical standards. • Improve the interdepartmental plan review, coordination, and closeout process. • Standardize the capital project tracking and reporting procedures. • Complete the stormwater program assessment and implement approved recommendations.

<p>Milestones</p>		<ul style="list-style-type: none"> • Engineering/Design funding approved • Right-of-way acquisition funding approved • LAPP Funding received for right-of-way acquisition and construction funding • Right-of-way acquisitions • Construction Authorization • Start of Construction • Road construction complete • Rezoning of 226 and 228 Church Street • Minor Site Plan Approval • Project Open to Bid • Project Open to Bid • Project Open to Bid • Minor Site Plan Modification • Project Open to Bid • Project Open to Bid • Wake Co Historic Commission Certificate of Appropriateness • Construction Begins • Project Design • Easement acquisition • Project Open to Bid • Construction Begins • >= 95% of submitted plans approved without an alternative standards request • Complete EDCM update annually and publish in July • >= 5 TCC survey results with increased score year over year • >= 95% of submitted construction plans approved within 2 review cycles • < 8% of contracted amount in approved change orders • >= 90% projects completed in time and budget • >= 98% pay applications reviewed and submitted for payment within 2 weeks • >= 98% utility accounts accurately assessed and collected in FY • Completion of study by October 2019 and implement major recommendations by June 30, 2020
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Department Purpose Statement






























To provide design, construction inspection, review, and education services for the community to ensure high quality, safe, and sustainable infrastructure.































Department Measures


Objectives	Outcome Measures
Obj. 2.3: Be responsible stewards of the natural environment Morrisville	>= 90% stormwater control measures in compliance with standards
Obj. 5.1: Promote financial integrity through effectively and efficiently managing public assets Morrisville	>= 85% town streets with a PCI >= 80
Obj. 5.3: Require the highest professional standards Morrisville	>= 90% of projects accepted with less than 10 defects found at end of warranty period
Obj. 4.3 React responsively to the public safety needs of the community Morrisville	>= 95% of reported public flooding issues acknowledged and assessed within 2 business days

Department Initiatives

Objectives	Initiatives	Initiative Measures
Obj. 1.1 Manage traffic congestion at targeted locations and targeted times of day Morrisville	NC54 Bypass-McCrimmon Parkway Extension Capital Projects	NC54 road widening Capital Projects
Obj. 1.3 Improve mobility options for non-drivers Morrisville		Railroad Crossing work at NC54/McCrimmon Parkway Capital Projects
Improve accessibility Planning		Associated intersection improvements on Airport Blvd, Aviation Pkwy and Evans Rd Capital Projects
Major Engineering Projects		Construction of new four-lane, median-divided roadway, from Airport Blvd to Aviation Pkwy at Evans Rd Capital Projects
Major Public Works Projects Public Works		
Obj. 1.1 Manage traffic congestion at targeted locations and targeted times of day Morrisville	Morrisville-Carpenter Road Improvements Project Capital Projects	Engineering/Design funding approved Capital Projects
Improve accessibility Planning		Right-of-way acquisition funding approved Capital Projects

Objectives	Initiatives	Initiative Measures
<p>■ Major Engineering Projects</p>		<p> LAPP Funding received for right-of-way acquisition and construction funding Capital Projects</p> <p> Right-of-way acquisitions Capital Projects</p> <p> Construction Authorization Capital Projects</p> <p> Start of Construction Capital Projects</p> <p> Road construction complete Capital Projects</p>
<p> Obj. 2.3: Be responsible stewards of the natural environment Morrisville</p>	<p> Historic-Christian-Church-Parking-Lot Capital Projects</p>	<p> Rezoning of 226 and 228 Church Street Capital Projects</p>
<p> Obj. 2.4: Establish a planned approach for redevelopment and revitalization Morrisville</p>		<p> Minor Site Plan Approval Capital Projects</p>
<p> Obj. 3.3: Effectively maintain assets and make the most of existing resources Morrisville</p>		<p> Project Open to Bid Capital Projects</p>
<p>■ Major Engineering Projects</p>		<p> Project Open to Bid Capital Projects</p> <p> Project Open to Bid Capital Projects</p> <p> Minor Site Plan Modification Capital Projects</p> <p> Project Open to Bid Capital Projects</p> <p> Project Open to Bid Capital Projects</p> <p> Wake Co Historic Commission Certificate of Appropriateness Capital Projects</p> <p> Construction Begins Capital Projects</p>
<p> Obj. 1.3 Improve mobility options for non-drivers Morrisville</p>	<p> Indian Creek Greenway Connector Capital Projects</p>	
<p> Improve accessibility Planning</p>		
<p>■ Major Engineering Projects</p>		
<p> Obj. 1.1 Manage traffic congestion at targeted locations and targeted times of day Morrisville</p>	<p> Traffic-Signal-at-McCrimmon-Parkway and-Perimeter-Park-Drive-Intersection (Temporary) Capital Projects</p>	<p> Installation of temporary roundabout Capital Projects</p>
<p> Obj. 4.3 React responsively to the public safety needs of the community Morrisville</p>		<p> NC DOT design of traffic signal Capital Projects</p>
<p> Improve accessibility Planning</p>		<p> Obtain easement agreements Capital Projects</p>

Objectives	Initiatives	Initiative Measures
<p>Major Engineering Projects</p>		<p> Project Open-to-Bid Capital Projects</p>
		<p> Construction-Begins Capital Projects</p>
<p> Obj. 2.3: Be responsible stewards of the natural environment Morrisville</p>	<p> Fairview Avenue and Green Drive Culvert Replacement Capital Projects</p>	<p> Project-Design Capital Projects</p>
<p> Obj. 3.3: Effectively maintain assets and make the most of existing resources Morrisville</p>		<p> Easement-acquisition Capital Projects</p>
<p>Major Engineering Projects</p>		<p> Project Open-to-Bid Capital Projects</p>
		<p> Construction Begins Capital Projects</p>
<p> Obj. 2.5: Plan and provide for current and future infrastructure Morrisville</p>	<p> Pugh House Rehabilitation Capital Projects</p>	
<p> Obj. 3.3: Effectively maintain assets and make the most of existing resources Morrisville</p>		
<p> Guide Development Planning</p>		
<p>Major Engineering Projects</p>		
<p>Major Public Works Projects Public Works</p>		
<p> Obj. 5.1: Promote financial integrity through effectively and efficiently managing public assets Morrisville</p>	<p> Update and publish the EDCM to reflect new and updated technical standards.</p>	<p> >= 95% of submitted plans approved without an alternative standards request</p>
<p> Obj. 5.2: Deliver customer-focused service Morrisville</p>		<p> Complete EDCM update annually and publish in July</p>
<p> Obj. 5.3: Require the highest professional standards Morrisville</p>		
<p> Obj. 5.2: Deliver customer-focused service Morrisville</p>	<p> Improve the interdepartmental plan review, coordination, and closeout process.</p>	<p> >= 5 TCC survey results with increased score year over year</p>
		<p> >= 95% of submitted construction plans approved within 2 review cycles</p>
<p> Obj. 5.1: Promote financial integrity through effectively and efficiently managing public assets Morrisville</p>	<p> Standardize the capital project tracking and reporting procedures.</p>	<p> < 8% of contracted amount in approved change orders</p>
		<p> >= 90% projects completed in time and budget</p>
		<p> >= 98% pay applications received and submitted for payment within 2-weeks</p>
<p> Obj. 5.1: Promote financial integrity through effectively and efficiently managing public assets Morrisville</p>		<p> Complete the stormwater program assessment and implement approved recommendations.</p>

Objectives	Initiatives	Initiative Measures
		 Completion of study by October 2019 and implement major recommendations by June 30, 2020

Owner

 Jennifer Bullock

Initiatives

-  **NC54 Bypass McCrimmon Parkway Extension**
Capital Projects | Completed 4/9/20
-  **Morrisville-Carpenter Road Improvements Project**
Capital Projects | 7/15/15 - 7/31/22
-  **Historic Christian Church Parking Lot**
Capital Projects | Completed 3/1/21
-  **Indian Creek Greenway Connector**
Capital Projects | 5/17/21 - 9/17/21
-  **Traffic Signal at McCrimmon Parkway and Perimete...**
Capital Projects | Completed 5/20/21
-  **Fairview Avenue and Green Drive Culvert Replacem..**
Capital Projects | 4/1/18 - 9/30/22
-  **Pugh House Rehabilitation**
Capital Projects | 5/1/18 - 6/30/21

Analysis CY Q2-21

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>= 90% stormwater control measures in compliance with standards

Engineering

Description

Private developments have stormwater control measures (SCM) on site that require regular maintenance and the stormwater division does annual inspections to determine operability and compliance with on-going standards

Why It Matters

SCM's provide pollution control and water quality for stormwater before it discharges to streams and water supply lakes. Keeping them in good working order is good for the environment and a requirement of the state.

Analysis CY Q2-21

Progressing on target

Collection and Calculation Method

Stormwater division inspection records and results.

Data Collection Lead

Data Collection Point(s) of Contact (if needed)

Stormwater Division

Objectives



Obj. 2.3: Be responsible stewards of the natural env...
Morrisville

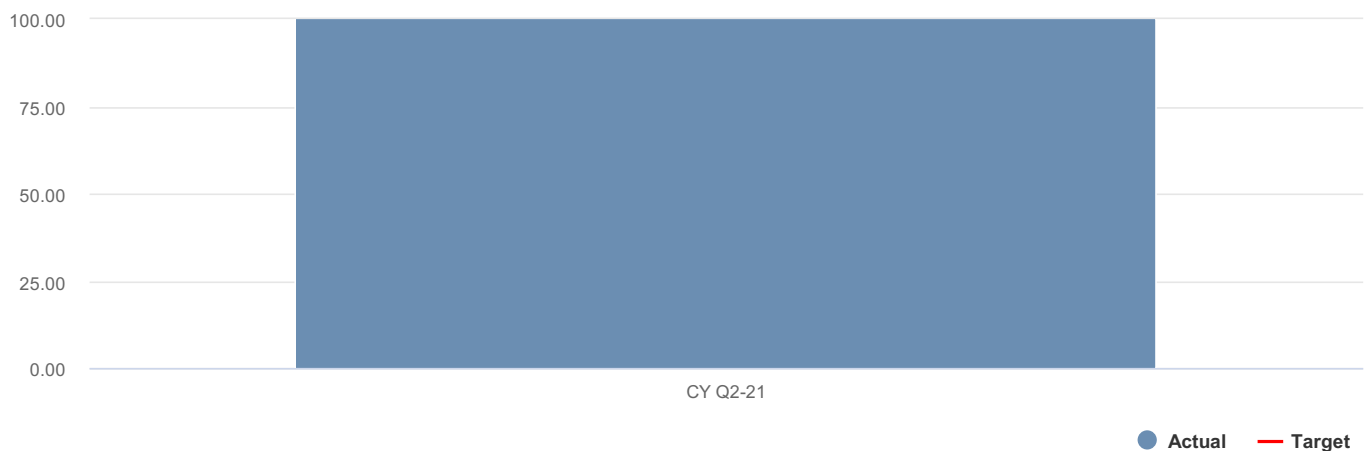
Initiatives

Owner



Jennifer Bullock

>= 90% stormwater control measures in compliance with standards



Period	—	Status	Actual	Target
CY Q1-19	↑	On Target	100.00	90.00
CY Q2-19	↑	On Target	100.00	90.00
CY Q3-19	↑	On Target	100.00	90.00
CY Q4-19	↑	On Target	100.00	90.00
CY Q1-20	↑	On Target	100.00	90.00
CY Q2-20	↑	On Target	100.00	90.00
CY Q3-20	↑	On Target	100.00	90.00
CY Q4-20	↑	On Target	100.00	90.00
CY Q1-21	↑	On Target	100.00	90.00
CY Q2-21	↑	On Target	100.00	90.00
CY Q3-21	↑	On Target	100.00	90.00
CY Q4-21	↑	On Target	100.00	90.00



Description

The asphalt condition on Town streets is based on a Pavement Condition Index (PCI) factor that is determined by special instrumentation that measures the condition of the pavement.

Why It Matters

Pavement condition determines the quality of Town roads which in turn provides a better driving and aesthetic experience of the roads.

Analysis CY Q2-21

Powell Bill submitted to State; Street maintenance on going towards completion.

Collection and Calculation Method

Paving projects are programmed based on PCI. PCI is collected by an outside vendor contract for these services

Data Collection Lead

Data Collection Point(s) of Contact (if needed)

Public Works Street Division

Objectives

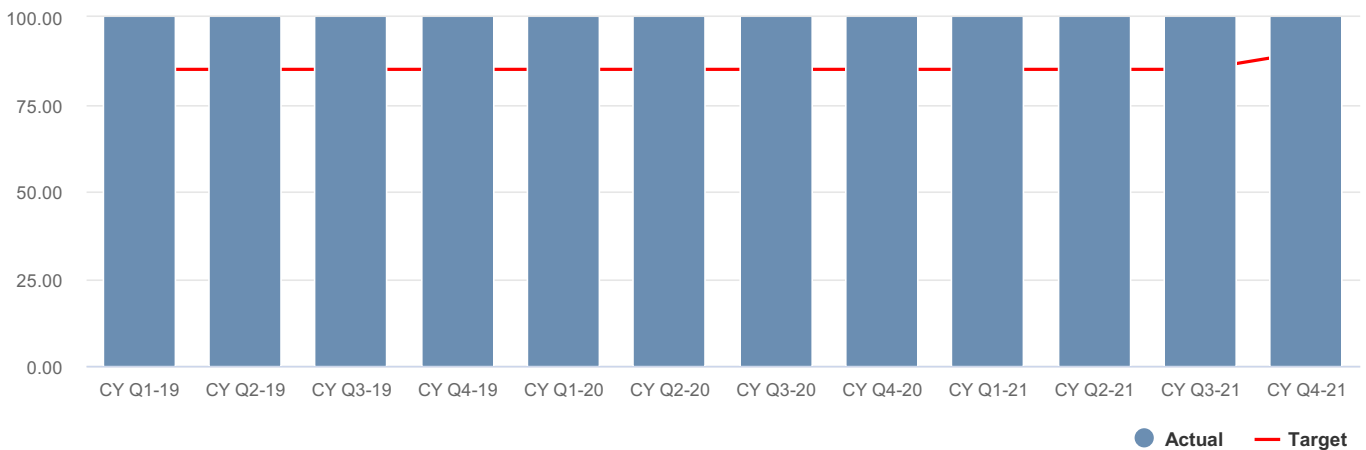
Obj. 5.1: Promote financial integrity through effectiv...
Morrisville

Initiatives

Owner

Jennifer Bullock

>= 85% town streets with a PCI >= 80



Outcome Measure Data

Last Calculated 2 days ago

Period	—	Status	Actual	Target
CY Q1-19	↑	On Target	100.00	85.00
CY Q2-19	↑	On Target	100.00	85.00
CY Q3-19	↑	On Target	100.00	85.00
CY Q4-19	↑	On Target	100.00	85.00
CY Q1-20	↑	On Target	100.00	85.00
CY Q2-20	↑	On Target	100.00	85.00
CY Q3-20	↑	On Target	100.00	85.00
CY Q4-20	↑	On Target	100.00	85.00
CY Q1-21	↑	On Target	100.00	85.00
CY Q2-21	↑	On Target	100.00	85.00
CY Q3-21	↑	On Target	100.00	85.00
CY Q4-21	↑	On Target	100.00	90.00



>= 90% of projects accepted with less than 10 defects found at end of warranty period

Engineering

Description

Quality control during project construction is of utmost importance to ensure that projects are built with little defect

Why It Matters

This prevents long term maintenance and defect remediation issues going forward once the project is accepted.

Analysis CY Q2-21

Consistently provide quality control during construction ensuring projects are built to the Town's standards

Collection and Calculation Method

After the warranty period projects are taken over by Public Works and at that time it is determined whether there are defects going forward and the number of defects.

Data Collection Lead

Data Collection Point(s) of Contact (if needed)

Engineering Technician

Objectives



Obj. 5.3: Require the highest professional standards
Morrisville

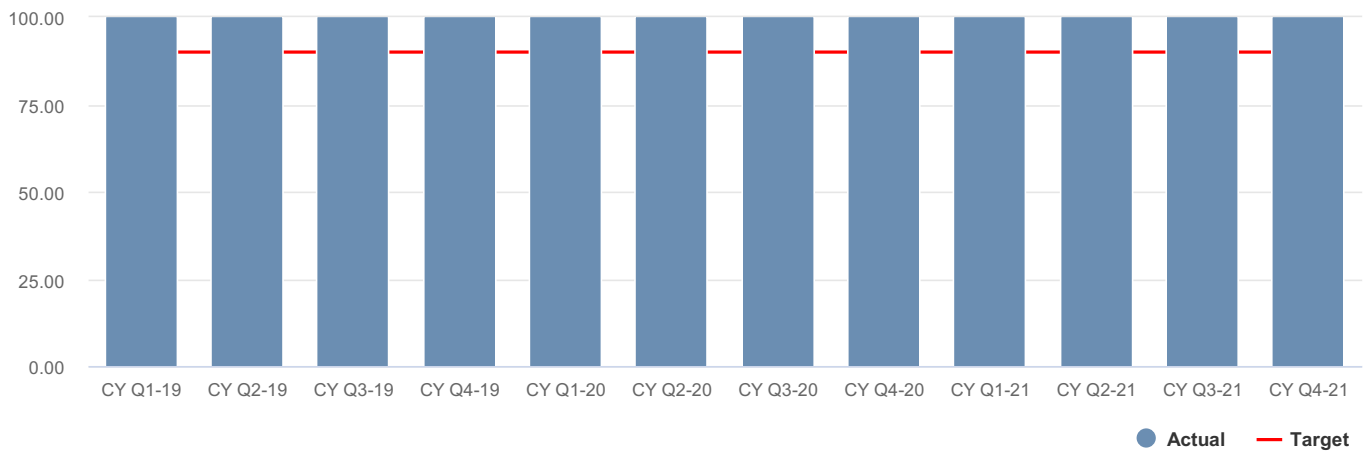
Initiatives

Owner



Jennifer Bullock

>= 90% of projects accepted with less than 10 defects found at end of warranty period



Outcome Measure Data

Last Calculated 2 days ago

Period	—	Status	Actual	Target
CY Q1-19	↑	On Target	100.00	90.00
CY Q2-19	↑	On Target	100.00	90.00
CY Q3-19	↑	On Target	100.00	90.00
CY Q4-19	↑	On Target	100.00	90.00
CY Q1-20	↑	On Target	100.00	90.00
CY Q2-20	↑	On Target	100.00	90.00
CY Q3-20	↑	On Target	100.00	90.00
CY Q4-20	↑	On Target	100.00	90.00
CY Q1-21	↑	On Target	100.00	90.00
CY Q2-21	↑	On Target	100.00	90.00
CY Q3-21	↑	On Target	100.00	90.00
CY Q4-21	↑	On Target	100.00	90.00

Description

Stormwater division receives flooding complaints generally after larger storm events and shall respond to the complaint and do a physical site visit to determine the cause of the issue and decide on next steps to be taken if any.

Why It Matters

Customer service is #1 for our staff to be able to respond to citizen concerns and provide assistance as necessary.

Analysis CY Q2-21

Continued customer service satisfaction.

Collection and Calculation Method


Logging of complaints (time and day) and logging of response time for site inspection and assessment.

Data Collection Lead

Data Collection Point(s) of Contact (if needed)

Stormwater Division

Objectives

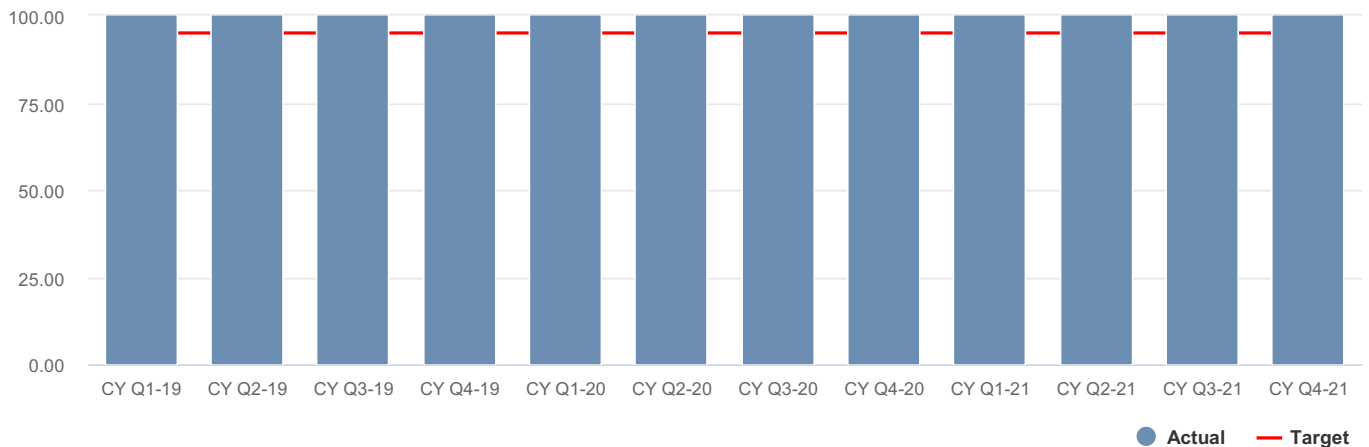
 **Obj. 4.3 React responsively to the public safety need..**
Morrisville

Initiatives

Owner

 Jennifer Bullock



































>= 95% of reported public flooding issues acknowledged and assessed within 2 business days













































Outcome Measure Data

Last Calculated 2 days ago

Period	—	Status	Actual	Target
CY Q1-19	↑	On Target	100.00	95.00
CY Q2-19	↑	On Target	100.00	95.00
CY Q3-19	↑	On Target	100.00	95.00
CY Q4-19	↑	On Target	100.00	95.00
CY Q1-20	↑	On Target	100.00	95.00
CY Q2-20	↑	On Target	100.00	95.00
CY Q3-20	↑	On Target	100.00	95.00
CY Q4-20	↑	On Target	100.00	95.00
CY Q1-21	↑	On Target	100.00	95.00
CY Q2-21	↑	On Target	100.00	95.00
CY Q3-21	↑	On Target	100.00	95.00
CY Q4-21	↑	On Target	100.00	95.00

Objectives	Initiatives	Initiative Measures
<p> Obj. 1.1 Manage traffic congestion at targeted locations and targeted times of day Morrisville</p>	<p> NC54 Bypass-McCrimmon Parkway Extension Capital Projects</p>	<p> NC54 road widening Capital Projects</p>
<p> Obj. 1.3 Improve mobility options for non-drivers Morrisville</p>		<p> Railroad Crossing work at NC54/McCrimmon Parkway Capital Projects</p>
<p> Improve accessibility Planning</p>		<p> Associated intersection improvements on Airport Blvd, Aviation Pkwy and Evans Rd Capital Projects</p>
<p> Major Engineering Projects</p>		<p> Construction of new four-lane, median-divided roadway, from Airport Blvd to Aviation Pkwy at Evans Rd Capital Projects</p>
<p> Major Public Works Projects Public Works</p>		
<p> Obj. 1.1 Manage traffic congestion at targeted locations and targeted times of day Morrisville</p>	<p> Morrisville-Carpenter Road Improvements Project Capital Projects</p>	<p> Engineering/Design funding approved Capital Projects</p>
<p> Improve accessibility Planning</p>		<p> Right-of-way acquisition funding approved Capital Projects</p>
<p> Major Engineering Projects</p>		<p> LAPP Funding received for right-of-way acquisition and construction funding Capital Projects</p>
		<p> Right-of-way acquisitions Capital Projects</p>
		<p> Construction Authorization Capital Projects</p>
		<p> Start of Construction Capital Projects</p>
		<p> Road construction complete Capital Projects</p>
<p> Obj. 2.3: Be responsible stewards of the natural environment Morrisville</p>	<p> Historic-Christian-Church-Parking-Lot Capital Projects</p>	<p> Rezoning of 226 and 228 Church Street Capital Projects</p>
<p> Obj. 2.4: Establish a planned approach for redevelopment and revitalization Morrisville</p>		<p> Minor Site Plan Approval Capital Projects</p>
<p> Obj. 3.3: Effectively maintain assets and make the most of existing resources Morrisville</p>		<p> Project Open to Bid Capital Projects</p>
<p> Major Engineering Projects</p>		<p> Project Open to Bid Capital Projects</p>
		<p> Project Open to Bid Capital Projects</p>
		<p> Minor Site Plan Modification Capital Projects</p>
		<p> Project Open to Bid Capital Projects</p>
		<p> Project Open to Bid Capital Projects</p>

Objectives	Initiatives	Initiative Measures
		 Wake Co Historic Commission Certificate of Appropriateness Capital Projects
		 Construction Begins Capital Projects
 Obj. 1.3 Improve mobility options for non-drivers Morrisville	 Indian Creek Greenway Connector Capital Projects	
 Improve accessibility Planning		
 Major Engineering Projects		
 Obj. 1.1 Manage traffic congestion at targeted locations and targeted times of day Morrisville	 Traffic Signal at McCrimmon Parkway and Perimeter Park Drive Intersection (Temporary) Capital Projects	 Installation of temporary roundabout Capital Projects
 Obj. 4.3 React responsively to the public safety needs of the community Morrisville		 NCDOT design of traffic signal Capital Projects
 Improve accessibility Planning		 Obtain easement agreements Capital Projects
 Major Engineering Projects		 Project Open to Bid Capital Projects
		 Construction Begins Capital Projects
 Obj. 2.3: Be responsible stewards of the natural environment Morrisville	 Fairview Avenue and Green Drive Culvert Replacement Capital Projects	 Project Design Capital Projects
 Obj. 3.3: Effectively maintain assets and make the most of existing resources Morrisville		 Easement acquisition Capital Projects
 Major Engineering Projects		 Project Open to Bid Capital Projects
		 Construction Begins Capital Projects
 Obj. 2.5: Plan and provide for current and future infrastructure Morrisville	 Pugh House Rehabilitation Capital Projects	
 Obj. 3.3: Effectively maintain assets and make the most of existing resources Morrisville		
 Guide Development Planning		
 Major Engineering Projects		
 Major Public Works Projects Public Works		
 Obj. 5.1: Promote financial integrity through effectively and efficiently managing public assets Morrisville	 Update and publish the EDCM to reflect new and updated technical standards.	 >= 95% of submitted plans approved without an alternative standards request
 Obj. 5.2: Deliver customer-focused service Morrisville		 Complete EDCM update annually and publish in July

Objectives	Initiatives	Initiative Measures
 Obj. 5.3: Require the highest professional standards Morrisville		
 Obj. 5.2: Deliver customer-focused service Morrisville	 Improve the interdepartmental plan review, coordination, and closeout process.	 >= 5 TCC survey results with increased score year over year
		 >= 95% of submitted construction plans approved within 2 review cycles
 Obj. 5.1: Promote financial integrity through effectively and efficiently managing public assets Morrisville	 Standardize the capital project tracking and reporting procedures:	 < 8% of contracted amount in approved change orders
		 >= 90% projects completed in time and budget
		 >= 98% pay applications received and submitted for payment within 2 weeks
 Obj. 5.1: Promote financial integrity through effectively and efficiently managing public assets Morrisville	 Complete the stormwater program assessment and implement approved recommendations.	 >= 98% utility accounts accurately assessed and collected in FY
		 Completion of study by October 2019 and implement major recommendations by June 30, 2020



Morrisville-Carpenter Road Improvements

Project

Capital Projects

[Home](#)

[Scorecard](#)

[Objectives](#)

[Outcome Measures](#)

[Initiatives](#)

[Milestones](#)

Target

Summer 2022

Description

Road widening project to enhance traffic flow in and around Morrisville. Project will add sidewalks, wide outside lanes, and designated pedestrian crossing traffic signals.

Why It Matters

The widening of Morrisville Carpenter Road, a state-owned road, will make a significant impact in the flow of traffic in the Town of Morrisville and surrounding region. This road widening project has been needed for many years, but the Morrisville-Carpenter road widening project did not compete well with other area projects when scored for state funding prioritization and funding was not awarded. In 2015, the Town Council made a strategic decision to invest in the road design to help the project score higher. This effort was successful. Funding for construction of the road widening was awarded in October 2017. The Town has worked with residents, the business community and NCDOT to understand the needs and concerns about the widening. The final design addresses these concerns, while keeping safety as the top priority.

Analysis

CY Q2-21

Phase 1 work is in progress. Most of the Phase 1 work is near the Morrisville Carpenter Rd./Town Hall Dr. intersection, between Town Hall drive and Misty Groves Circle, and along Franklin Upchurch, Sr. St. Variable message boards have been installed and Communications staff share weekly updates to neighboring HOAs and those signed up to receive updates.

Percent Complete

CY Q2-21

40 %


Start Date


7/15/15


End Date

7/31/22

Objectives

 **Obj. 1.1 Manage traffic congestion at targeted locati...**
Morrisville

 **Improve accessibility**
Planning

 **Major Engineering Projects**
Engineering

Data Collection Point(s) of Contact (if needed)

Capital Projects Manager

Collaborators

- BH Ben Howell (Planning)
- VK Vinod Korategere (Engineering)
- MS Mark Spanioli
- BZ Brandon Zuidema

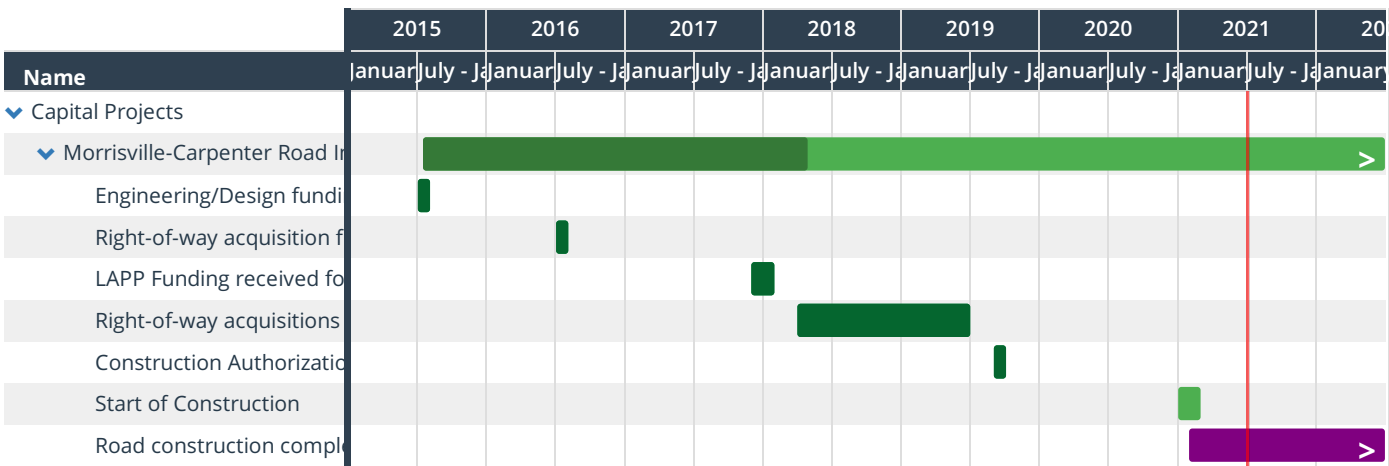
Milestones

-  **Engineering/Design funding approved**
Capital Projects | Completed 8/1/15
-  **Right-of-way acquisition funding approved**
Capital Projects | Completed 8/1/16
-  **LAPP Funding received for right-of-way acquisition...**
Capital Projects | Completed 1/31/18
-  **Right-of-way acquisitions**
Capital Projects | Completed 1/31/19
-  **Construction Authorization**
Capital Projects | Completed 11/30/20
-  **Start of Construction**
Capital Projects | 1/1/21 - 2/28/21
-  **Road construction complete**
Capital Projects | 1/31/21 - 7/31/22

Owner

- EH Erin Hudson (Administration)

Gantt Chart





Owner

Milestone Analysis CY Q1-19

Milestone Percent Complete CY Q1-19

100 %


Start Date

7/1/15

End Date

8/1/15

Initiative

 [Morrisville-Carpenter R...](#) 7/15/15 - 7/31/22 CY Q2-21

Owner

Milestone Analysis CY Q1-19

Milestone Percent Complete CY Q1-19

100 %


Start Date

7/1/16

End Date

8/1/16

Initiative

 [Morrisville-Carpenter R...](#) 7/15/15 - 7/31/22 CY Q2-21



LAPP Funding received for right-of-way acquisition and construction funding

Capital Projects

Owner

Milestone Analysis CY Q1-19

Milestone Percent Complete CY Q1-19

100 %


Start Date

12/1/17

End Date

1/31/18

Initiative

 [Morrisville-Carpenter R...](#) 7/15/15 - 7/31/22 CY Q2-21

Owner

Milestone Analysis CY Q1-19

Milestone Percent Complete CY Q1-19

100 %

Start Date

4/1/18

End Date

6/30/19

Initiative

 [Morrisville-Carpenter R...](#) 7/15/15 - 7/31/22 CY Q2-21

Owner

Milestone Analysis CY Q4-20

Milestone Percent Complete CY Q4-20

100 %


Start Date

9/1/19

End Date

9/30/19

Initiative

 [Morrisville-Carpenter R...](#) 7/15/15 - 7/31/22 CY Q2-21



Start of Construction

Capital Projects

Owner

Milestone Analysis CY Q2-21

Construction began January 25, 2021.

Milestone Percent Complete CY Q2-21

0 %


Start Date

1/1/21

End Date

2/28/21

Initiative

 [Morrisville-Carpenter R...](#) 7/15/15 - 7/31/22 CY Q2-21

Road construction complete
Capital Projects

Owner

Milestone Analysis CY Q2-21

Milestone Percent Complete CY Q2-21

0 %


Start Date

1/31/21

End Date

7/31/22

Initiative

 [Morrisville-Carpenter R...](#) 7/15/15 - 7/31/22 CY Q2-21

Target

First quarter 2021 completion

Description

Construct, expand and improve parking around Historic Christian Church building.

Why It Matters

The Historic Christian Church building is an asset to Morrisville's infrastructure but has been critically under-utilized. One of its major challenges has been parking. Both Council and staff remain committed to ensuring the facility is available and accessible for a variety of uses.

Analysis CY Q1-21

Work substantially completed March 10. Facility used in May to host Advisory Committee meetings.

Percent Complete CY Q1-21

100 %

Objectives

-  **Obj. 2.3: Be responsible stewards of the natural env...**
Morrisville
-  **Obj. 2.4: Establish a planned approach for redevelop..**
Morrisville
-  **Obj. 3.3: Effectively maintain assets and make the m..**
Morrisville
-  **Major Engineering Projects**
Engineering

Start Date

2/1/18



End Date

3/1/21

Data Collection Point(s) of Contact (if needed)

Capital Projects Manager

Collaborators

-  Vinod Korategere (Engineering)
-  Mark Spanioli

Milestones



Rezoning of 226 and 228 Church Street

Capital Projects | Completed 2/27/18



Minor Site Plan Approval

Capital Projects | Completed 8/9/18



Project Open to Bid

Capital Projects | Completed 10/2/18



Project Open to Bid

Capital Projects | Completed 11/12/18



Project Open to Bid

Capital Projects | Completed 11/26/18



Minor Site Plan Modification

Capital Projects | Completed 5/7/19



Project Open to Bid

Capital Projects | Completed 6/17/19



Project Open to Bid

Capital Projects | Completed 12/18/20



Wake Co Historic Commission Certificate of Approp...

Capital Projects | Completed 7/14/20



Construction Begins

Capital Projects | Completed 8/15/20

Owner



Mark Spanoli

Gantt Chart

Name	2018				2019				2020				2021
	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q2 20	Q3 20	Q4 20	Q1 21
▼ Capital Projects													
▼ Historic Christian Church Par	[Green bar spanning all quarters from Q1 18 to Q1 21]												
Rezoning of 226 and 228	[Green bar]												
Minor Site Plan Approval	[Green bar]	[Green bar]	[Green bar]										
Project Open to Bid				[Green bar]									
Project Open to Bid				[Green bar]									
Project Open to Bid				[Green bar]									
Minor Site Plan Modificati					[Green bar]	[Green bar]							
Project Open to Bid						[Green bar]							
Project Open to Bid									[Green bar]	[Green bar]			
Wake Co Historic Commis											[Green bar]	[Green bar]	
Construction Begins											[Green bar]	[Green bar]	



Rezoning of 226 and 228 Church Street

Capital Projects

Owner

Milestone Analysis CY Q1-19

Completed

Milestone Percent Complete CY Q1-19

100 %


Start Date

2/1/18

End Date

2/27/18

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q1-19

Completed

Milestone Percent Complete CY Q1-19

100 %


Start Date

3/1/18

End Date

8/1/18

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q1-19

Completed

Milestone Percent Complete CY Q1-19

100 %


Start Date

9/18/18

End Date

10/2/18

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q1-19

Complete

Milestone Percent Complete CY Q1-19

100 %


Start Date

10/16/18

End Date

11/12/18

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q1-19

Completed

Milestone Percent Complete CY Q1-19

100 %


Start Date

11/14/18

End Date

11/26/18

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q2-19

complete

Start Date

3/11/19


Milestone Percent Complete CY Q2-19

100 %

End Date

5/7/19

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q2-19

complete

Start Date

5/23/19


Milestone Percent Complete CY Q2-19

100 %

End Date

6/17/19

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q4-20

Milestone Percent Complete CY Q4-20

100 %


Start Date

2/23/20

End Date

5/6/20

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21



Wake Co Historic Commission Certificate of Appropriateness

Capital Projects

Owner

Milestone Analysis CY Q3-20

Current certificate, issued 7/14/20, to expire 1/14/21.

Milestone Percent Complete CY Q3-20

100 %


Start Date

7/14/20

End Date

1/14/21

Initiative

 Historic Christian Chur... Completed 3/1/21 CY Q1-21

Owner

Milestone Analysis CY Q3-20

Construction progress on target

Milestone Percent Complete CY Q3-20

100 %


Start Date

7/27/20

End Date

1/31/21

Initiative

 **Historic Christian Chur...** Completed 3/1/21 CY Q1-21



Target

End of first quarter, 2021.

Description

Greenway connection between the Town Hall Terraces neighborhood and existing Indian Creek Greenway.

Why It Matters

Enhances pedestrian and greenway connectivity in Morrisville.

Analysis CY Q2-21

Construction began mid-May and is estimated to be completed in 90 days. Erosion control and tree protection fencing have been installed, and trees cleared for boardwalk.

Percent Complete CY Q2-21

30 %

Objectives

- Obj. 1.3 Improve mobility options for non-drivers**
Morrisville
- Improve accessibility**
Planning
- Major Engineering Projects**
Engineering

Start Date

5/17/21

End Date

9/17/21

Data Collection Point(s) of Contact (if needed)

Development Engineering Supervisor

Milestones

Owner

Erin Hudson (Administration)

Collaborators

- Ben Howell (Planning)
- Mark Spanioli
- Michele Stegall

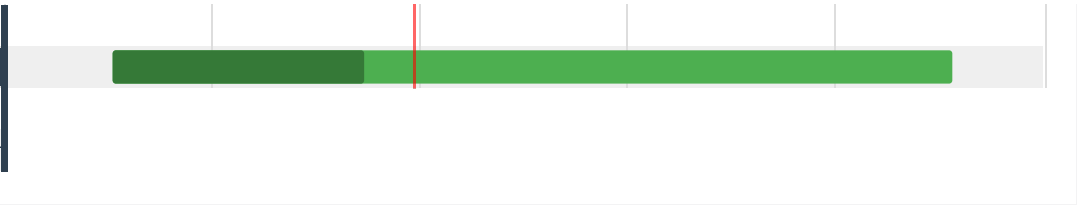
Gantt Chart



Name

Capital Projects

Indian Creek Greenway Contr



Target

Third Quarter 2021

Description

Upsizing of culverts on Green Drive and Fairview Avenue to upgrade aging stormwater infrastructure

Why It Matters

Historically, surrounding area experienced flooding due to undersized culverts. Repairs will increase area safety, upgrade aging stormwater infrastructure, and improve stormwater infrastructure capacity in connection with continued development for the Town.




Analysis CY Q2-21

Construction began at end of June and is estimated at eight months.

Percent Complete CY Q2-21

0 %

Objectives

-  **Obj. 2.3: Be responsible stewards of the natural env...**
Morrisville
-  **Obj. 3.3: Effectively maintain assets and make the m..**
Morrisville
-  **Major Engineering Projects**
Engineering

Start Date

4/1/18




End Date

9/30/22

Data Collection Point(s) of Contact (if needed)

Stormwater Engineering Manager

Milestones

-  **Project Design**
Capital Projects | Completed 3/21/19
-  **Easement acquisition**
Capital Projects | Completed 9/1/20
-  **Project Open to Bid**
Capital Projects | Completed 11/20/20
-  **Construction Begins**
Capital Projects | 1/1/21 - 9/30/21

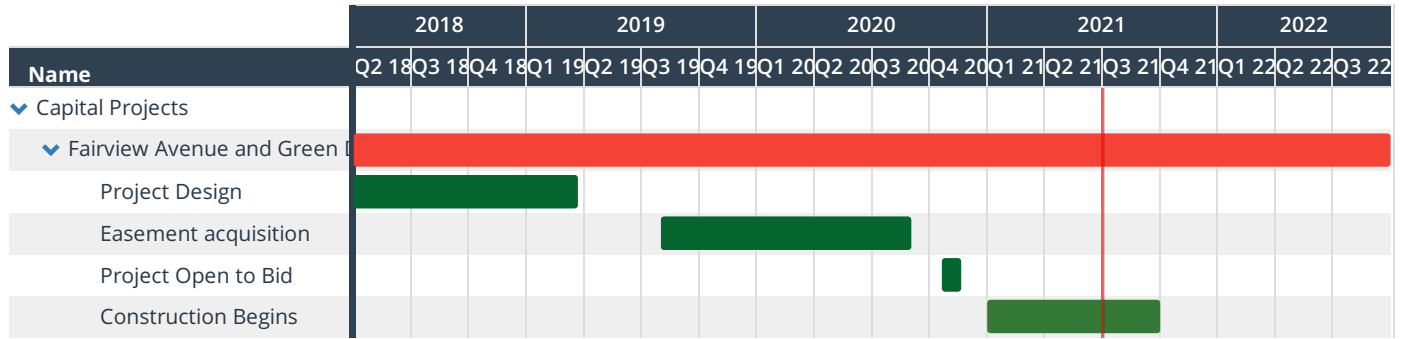
Collaborators

 Mark Spanioli

Owner

 Mark Spanioli

Gantt Chart



Owner

Milestone Analysis CY Q1-19

complete

Milestone Percent Complete CY Q1-19

100 %


Start Date

4/1/18

End Date

3/21/19

Initiative

 [Fairview Avenue and Gre..](#) 4/1/18 - 9/30/22 CY Q2-21

Owner

Milestone Analysis CY Q3-20

Easement acquisition delayed as many property owners resided out of state and due to COVID-19 limited access/interaction.

Milestone Percent Complete CY Q3-20

100 %

Start Date

8/1/19

End Date

9/1/20

Initiative

 [Fairview Avenue and Gre..](#) 4/1/18 - 9/30/22 CY Q2-21

Owner

Milestone Analysis CY Q4-20

Milestone Percent Complete CY Q4-20

100 %


Start Date

10/21/20

End Date

11/20/20

Initiative

 [Fairview Avenue and Gre..](#) 4/1/18 - 9/30/22 CY Q2-21



Construction Begins

Capital Projects

Owner

Milestone Analysis CY Q2-21

Construction began at the end of June and is estimated at eight months.

Milestone Percent Complete CY Q2-21

100 %

Start Date

1/1/21

End Date

9/30/21

Initiative



Fairview Avenue and Gre.. 4/1/18 - 9/30/22

CY Q2-21

Target

No established project timeline

Description

Rehabilitation of Pugh House at 103 Page Street to best display its beauty and historical significance.

Why It Matters

The Pugh House, ca. 1890, is an Italianate style I-house, relocated to its present location in 2008. The distinctive exterior ornate fleur-de-lis shaped motifs have been referred to as the 'Morrisville Porch.' In addition to the architectural nomination, the structure was nominated for its association with the artist Mabel Pugh, daughter of James M. Pugh, who pioneered her profession for women in North Carolina and who is of statewide significance. The Pugh House is Morrisville's most visible landmark. Rehabilitating the structure will better display its beauty and significance.

Analysis CY Q2-21

Currently, there is no established budget or project timeline. Staff has noted timing of certain presentations and decision points that have occurred to date.

Percent Complete CY Q2-21

0 %

Objectives

-  **Obj. 2.5: Plan and provide for current and future infr..**
Morrisville
-  **Obj. 3.3: Effectively maintain assets and make the m..**
Morrisville
-  **Guide Development**
Planning
-  **Major Engineering Projects**
Engineering
-  **Major Public Works Projects**
Public Works

Start Date

5/1/18

End Date

6/30/21

Milestones

Owner

 Erin Hudson (Administration)

Data Collection Point(s) of Contact (if needed)

Public Works Director

Collaborators

- GR Giselle Rodriguez
- MS Mark Spanioli
- MS Michele Stegall
- BZ Brandon Zuidema

Gantt Chart

Name	2018			2019				2020				2021	
	Q2 18	Q3 18	Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q2 20	Q3 20	Q4 20	Q1 21	Q2 21
<ul style="list-style-type: none"> ▼ Capital Projects <ul style="list-style-type: none"> Pugh House Rehabilitation 													

Target

Publish update each year during the month of July

Description

Regular updates of the Engineering Design and Construction Manual are imperative for the Engineering Department to make adjustments and modifications to coordinate with changes to development requirements on commercial and residential projects

Why It Matters

Provides guidelines for architects and engineers that submit plans to the Town for review and approval.

Analysis CY Q2-21

Continue to work to update as schedules allow due to increased activity within the Town Limits

Objectives

- Obj. 5.1: Promote financial integrity through effectiveness**
Morrisville
- Obj. 5.2: Deliver customer-focused service**
Morrisville
- Obj. 5.3: Require the highest professional standards**
Morrisville

Collection and Calculation Method

Data Collection Point(s) of Contact (if needed)

Engineering Department Staff

Data Collection Lead

Gantt Chart

Percent Complete CY Q2-21

43 %

Start Date

7/1/20

End Date

6/30/22

Milestones

- >= 95% of submitted plans approved without an alt...**
Engineering | 6/29/20 - 6/28/21
- Complete EDCM update annually and publish in July**
Engineering | 7/1/20 - 6/30/22

Owner

Jennifer Bullock

Name	2020			2021				2022	
	Q2 20	Q3 20	Q4 20	Q1 21	Q2 21	Q3 21	Q4 21	Q1 22	Q2 22
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Update and publish the EDCM update a >= 95% of submitted plans Complete EDCM update a 									



>= 95% of submitted plans approved without an alternative standards request

Engineering

[Home](#)

[Scorecard](#)

[Objectives](#)

[Outcome Measures](#)

[Initiatives](#)

[Milestones](#)

Owner

Milestone Analysis CY Q2-21

Staff work continues

Start Date

6/29/20

Milestone Percent Complete CY Q2-21

95 %

End Date

6/28/21

Initiative

 [Update and publish the ...](#) 7/1/20 - 6/30/22 CY Q2-21



Owner

Milestone Analysis CY Q2-21

Milestone Percent Complete CY Q2-21

50 %

Start Date

7/1/20

End Date

6/30/22

Initiative

 Update and publish the ... 7/1/20 - 6/30/22 CY Q2-21



Improve the interdepartmental plan review, coordination, and closeout process.

Engineering

Home

Scorecard

Objectives

Outcome Measures

Initiatives

Milestones

Target

Approved >= 95% of construction plan submittals within 2 review cycles

Description

Provide, train and install web-based software for plan review, permit fee collection, inspections and project close-outs

Why It Matters

Provides cross department efficiencies and a user-friendly platform for interfacing with the development community

Analysis CY Q2-21

Improved departmental efficiencies and proactive interface with contractors helping to understanding on line processing system for better efficiencies

Objectives

Obj. 5.2: Deliver customer-focused service
Morrisville

Collection and Calculation Method

Data Collection Point(s) of Contact (if needed)

Engineering Technicians

Data Collection Lead

Percent Complete CY Q2-21

95 %

Start Date

7/1/20

End Date

6/30/21

Milestones

>= 5 TCC survey results with increased score year o...
Engineering | 4/30/20 - 7/30/21

>= 95% of submitted construction plans approved w.
Engineering | 6/30/20 - 6/30/21

Owner

Jennifer Bullock

Gantt Chart

2020			2021		
Q2 20	Q3 20	Q4 20	Q1 21	Q2 21	Q3 21

Name

Engineering

Improve the interdepartmental

>= 5 TCC survey results w

>= 95% of submitted con





>= 5 TCC survey results with increased score
year over year
Engineering

Home

Scorecard

Objectives

Outcome Measures

Initiatives

Milestones

Owner

Milestone Analysis

CY Q2-21

Updating process and procedures to accomplish

Start Date

4/30/20

Milestone Percent Complete

CY Q2-21

85 %

End Date

7/30/21

Initiative



Improve the interdepart... 7/1/20 - 6/30/21

CY Q2-21



>= 95% of submitted construction plans approved within 2 review cycles
Engineering

Home

Scorecard

Objectives

Outcome Measures

Initiatives

Milestones

Owner

Milestone Analysis CY Q2-21

Continue to improve plan review coordination and reviews in a timely manner

Milestone Percent Complete CY Q2-21

95 %

Start Date

6/30/20

End Date

6/30/21

Initiative



Improve the interdepart... 7/1/20 - 6/30/21

CY Q2-21



Target

Eliminate avoidable time of completion delays, minimize scope creep and avoidable overruns. >= 90% projects completed on time and budget

Description

Purchase and install project management tracking software to provide interdepartmental project collaboration and reporting for project schedules, budgets and activity tracking

Why It Matters

Provides an efficient platform or project database that can be shared with the Council and the public

Analysis CY Q2-21

Created, continual updating of project tracking bridging excel and MS Projected creating interdepartmental updates for Sr. staff

Objectives

Obj. 5.1: Promote financial integrity through effectiveness Morrisville

Collection and Calculation Method

Data Collection Point(s) of Contact (if needed)

Engineering department, Finance department, Budget office

Data Collection Lead

Percent Complete CY Q2-21

100 %

Start Date

7/1/20

End Date

6/30/21

Milestones

<8% of contracted amount in approved change orders Engineering | Completed 6/1/21

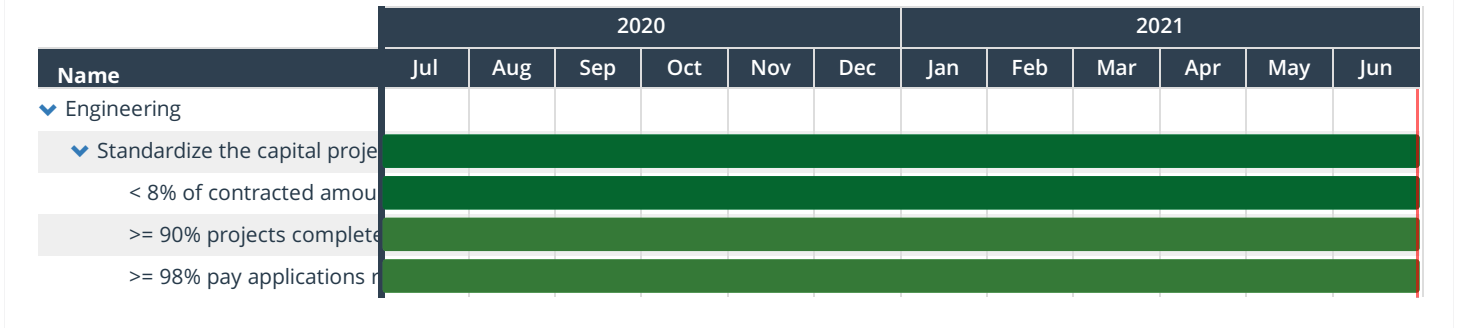
>= 90% projects completed in time and budget Engineering | Completed 6/1/21

>= 98% pay applications reviewed and submitted for payment Engineering | Completed 6/1/21

Owner

Jennifer Bullock

Gantt Chart





< 8% of contracted amount in approved change orders
Engineering

Owner

Milestone Analysis CY Q2-21

Improved capital project budgeting estimates to stay within approved project allocations reducing change orders and project overages.

Milestone Percent Complete CY Q2-21

100 %

Start Date

7/1/20

End Date

6/30/21

Initiative

Standardize the capita. Completed 7/19/21 CY Q2-21



>= 90% projects completed in time and budget
Engineering

Home

Scorecard

Objectives

Outcome Measures

Initiatives

Milestones

Owner

Milestone Analysis CY Q2-21

Projects on time and within budget

Milestone Percent Complete CY Q2-21

100 %


Start Date

7/1/20

End Date

6/30/21

Initiative

 **Standardize the capita.** Completed 7/19/21 CY Q2-21



>= 98% pay applications received and submitted for payment within 2 weeks
Engineering

Home

Scorecard

Objectives

Outcome Measures

Initiatives

Milestones

Owner

Milestone Analysis CY Q2-21

All pay applications processed in a timely manner and payment made to contractor in less than two weeks

Milestone Percent Complete CY Q2-21

100 %


Start Date

7/1/20

End Date

6/30/21

Initiative

 **Standardize the capita.** Completed 7/19/21 CY Q2-21

Target

Maintain >= 90% compliance or increase year over year compliance

Description

Develop stormwater master plan to review existing stormwater infrastructure, perform flood staging analysis and propose a long-term CIP plan to address deficiencies.


Why It Matters

Protect and preserve the stormwater infrastructure town wide for current and future development

Analysis CY Q2-21

Outside consultant to complete and submit final resulting report mid-July

Objectives

 **Obj. 5.1: Promote financial integrity through effectiv...**
Morrisville

Collection and Calculation Method

Data Collection Point(s) of Contact (if needed)

Stormwater Division

Data Collection Lead

Percent Complete CY Q2-21

92 %


Start Date


6/30/20

End Date

7/29/21

Milestones

 **>=98% utility accounts accurately assessed and col...**
Engineering | Completed 7/19/21

 **Completion of study by October 2019 and impleme...**
Engineering | 7/1/20 - 7/30/21

Owner

 Jennifer Bullock

Gantt Chart

Name	2020			2021		
	Q2 20	Q3 20	Q4 20	Q1 21	Q2 21	Q3 21
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Complete the stormwater pr >= 98% utility accounts ad Completion of study by C 						



>= 98% utility accounts accurately assessed and collected in FY
Engineering

Home

Scorecard

Objectives

Outcome Measures

Initiatives

Milestones

Owner

Milestone Analysis CY Q2-21

Accounts accurately assessed and billed

Milestone Percent Complete CY Q2-21

100 %


Start Date

6/1/20

End Date

6/30/21

Initiative

 **Complete the stormwat..** 6/30/20 - 7/29/21 CY Q2-21



Completion of study by October 2019 and implement major recommendations by June 30, 2020

Engineering

Home

Scorecard

Objectives

Outcome Measures

Initiatives

Milestones

Owner

Milestone Analysis CY Q2-21

Schedule changes due to unexpected challenges

Milestone Percent Complete CY Q2-21

92 %

Start Date

7/1/20

End Date

7/30/21

Initiative

Complete the stormwat.. 6/30/20 - 7/29/21 CY Q2-21