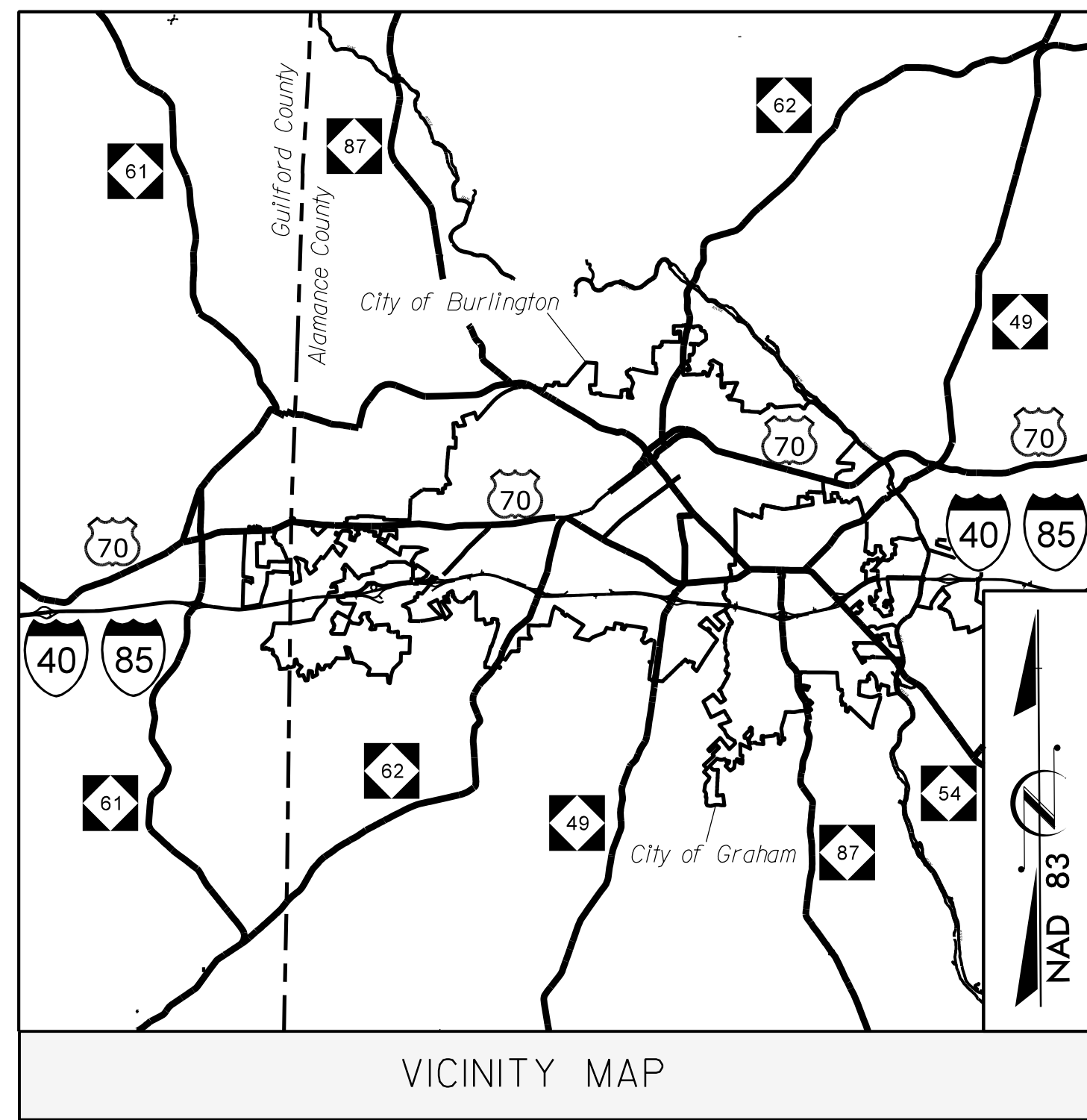


TIP PROJECT: U-6015

CONTRACT: C204111



VICINITY MAP

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED IMPROVEMENTS
CITIES OF BURLINGTON & GRAHAM
COMPUTERIZED TRAFFIC SIGNAL SYSTEM

REPLACEMENT OF EXISTING SIGNAL SYSTEM WITH A NEW COMPUTERIZED TRAFFIC SIGNAL SYSTEM.
RELATED WORK INCLUDES:
UPGRADING LOCAL INTERSECTION CONTROLLERS, CABINETS, AND SYSTEM DETECTORS WITH LIMITED SIGNAL WIRING AND SIGNAL HEAD UPGRADES WHEN NECESSARY; UPGRADE AND EXPANSION OF CCTV MONITORING NETWORK; INSTALLING CENTRAL EQUIPMENT AND CENTRAL SOFTWARE; AND INSTALLATION OF AN ETHERNET COMMUNICATIONS NETWORK COMPRISED OF FIBER-OPTIC CABLE AND WIRELESS TECHNOLOGY WITH ALL RELATED EQUIPMENT.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-6015	FS-1.00	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47160.1.1		PE	
47160.3.1	STBG-0701 (036)	CONST	

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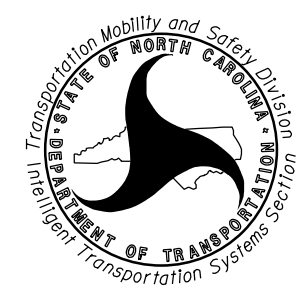


Volume II of III
Fiber-Optic Splicing

2018 STANDARD SPECIFICATIONS

LETTING DATE: SEPTEMBER 18, 2018

PROJECT LENGTH = 55 MILES



750 Greenfield Parkway, Garner, NC 27529

NC DOT CONTACTS:
TRANSPORTATION MOBILITY & SAFETY DIVISION
INTELLIGENT TRANSPORTATION SYSTEMS SECTION
SHERRY YOW - METRO SYSTEMS PROJECT ENGINEER
WILLIAM B. HAIRSTON, III - PROJECT DESIGN ENGINEER
CYNTHIA MULDROW - DESIGN ENGINEER

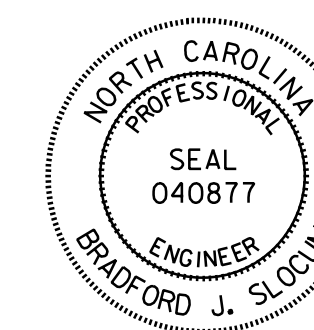
ATKINS

1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

MELISSA B. TOTH, PE - ATKINS PROJECT MANAGER
H. ALFRED BADGETT, PE - ATKINS SENIOR PROJECT ENGINEER
BRADFORD SLOCUM, PE - ATKINS PROJECT ENGINEER
ANTHONY M. ENCARNACION, PE - ATKINS PROJECT ENGINEER

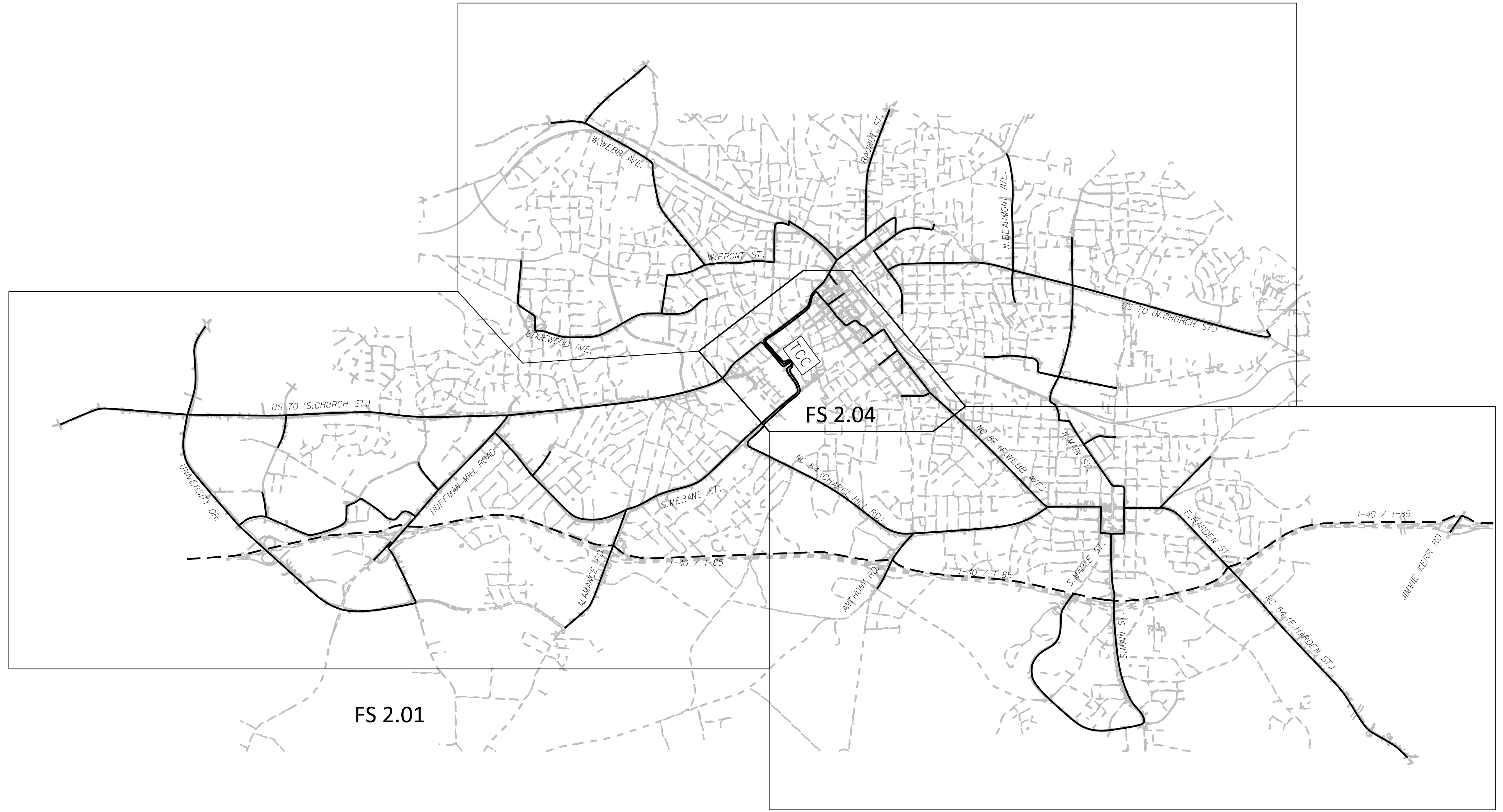


SEAL



DocuSigned by:
Bradford J. Slocum 15/2018
SIGNATURE DATE

FS 2.03



FS 2.01

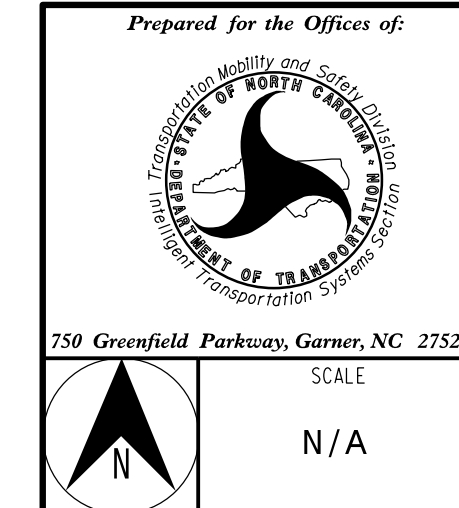
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FS 2.02

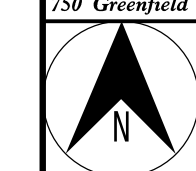
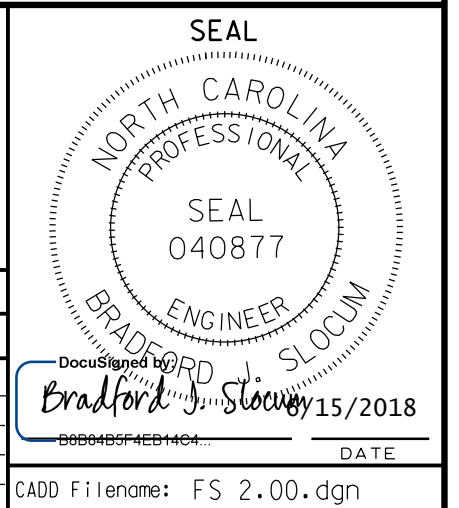
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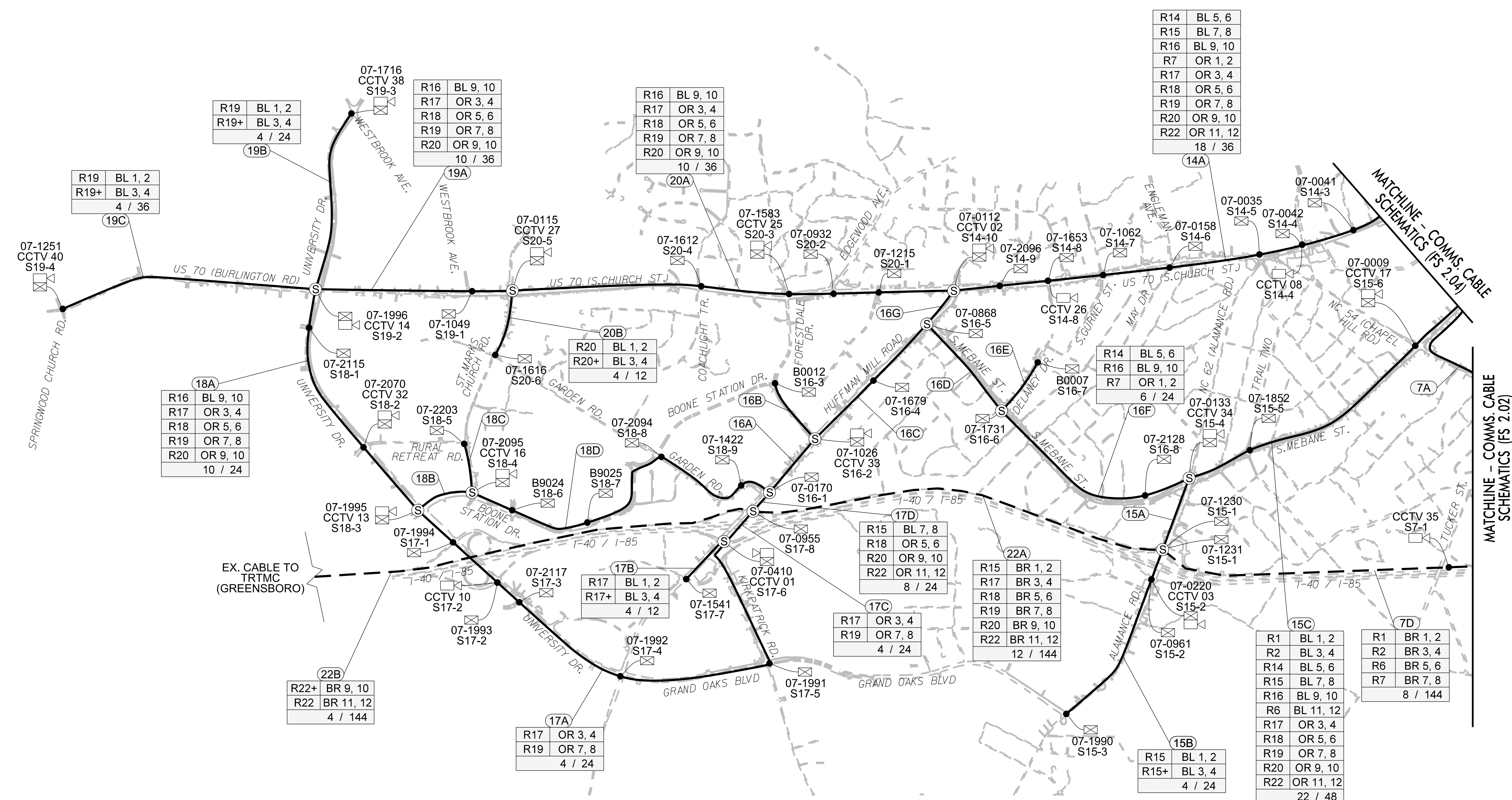


Burlington-Graham Signal System Comms. Cable Schematics Sheet Layout	
Division 7	Burlington & Graham
Alamance County	
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES
REVISIONS	INIT. DATE



SCALE
N/A

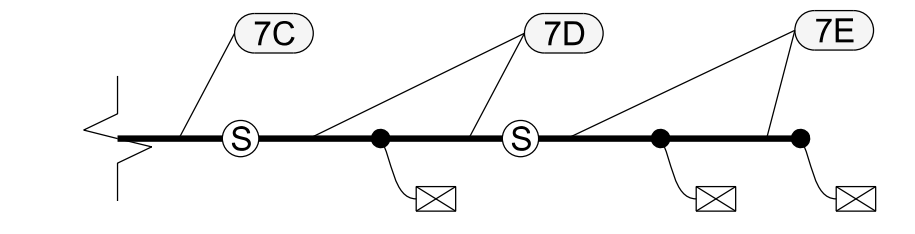
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Bradford J. Slocum 15/2018
DATE
CADD Filename: FS 2.00.dgn



Summary tables for various ring numbers (7A, 15A, 16A, 16B, 16C, 16D, 16E, 16G, 18B, 18C, 18D, 22B) listing cable types (BL, OR, GR, BR) and fiber counts.

LEGEND: Symbols for cable-to-cable splice, drop splices to CCTV and signal cabinets, new and existing fiber-optic cables, splice numbers, city and state signal inventory numbers, CCTV IDs, ring numbers, fiber pairs assigned to ring, total fibers in cable, and fiber buffer tubes (BL, OR, GR, BR).

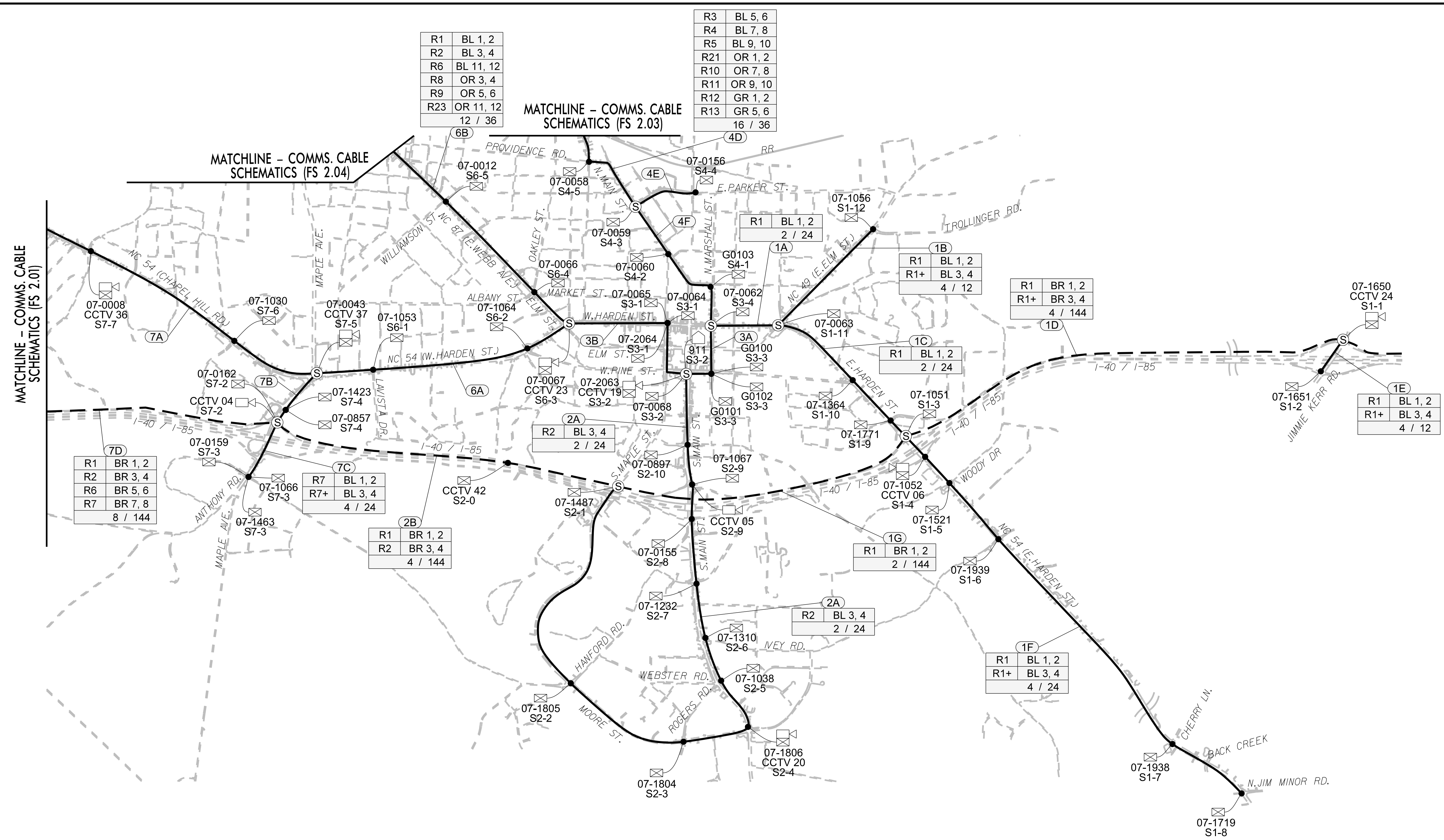
- NOTES: 1. CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS. 2. CCTV 9 AND CCTV 11 TO BE REMOVED AND NOT SHOWN ON CABLE SCHEMATICS FOR CLARITY. 3. CABLE ID NUMBERS REPRESENT UNIQUE CABLE NAMES BETWEEN TWO CABLE-TO-CABLE SPLICES, OR BETWEEN A CABLE-TO-CABLE SPLICE AND THE END OF A CABLE RUN; CABLE ID NUMBERS DO NOT CHANGE BETWEEN SIMPLE DROP CABLE SPLICES.



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

Project title block for 'Burlington-Graham Signal System Comms. Cable Schematics (1 of 4)'. Includes division information, plan date (June 2018), reviewer (HA BADGETT), preparer (BJ SLOCUM), and a signature block for Bradford J. Slocum, dated 6/15/2018.

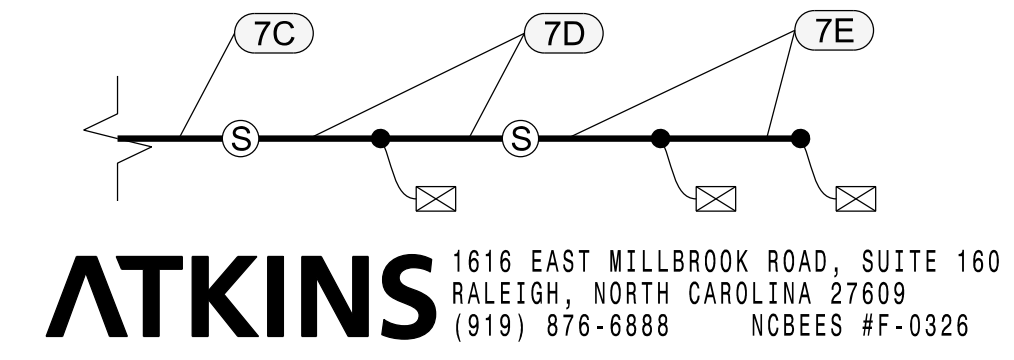
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Tables for fiber pair assignments (R1, R2, R3, etc.) and fiber counts for various sections (3A, 3B, 4E, 4F, 6A, 7A, 7B).

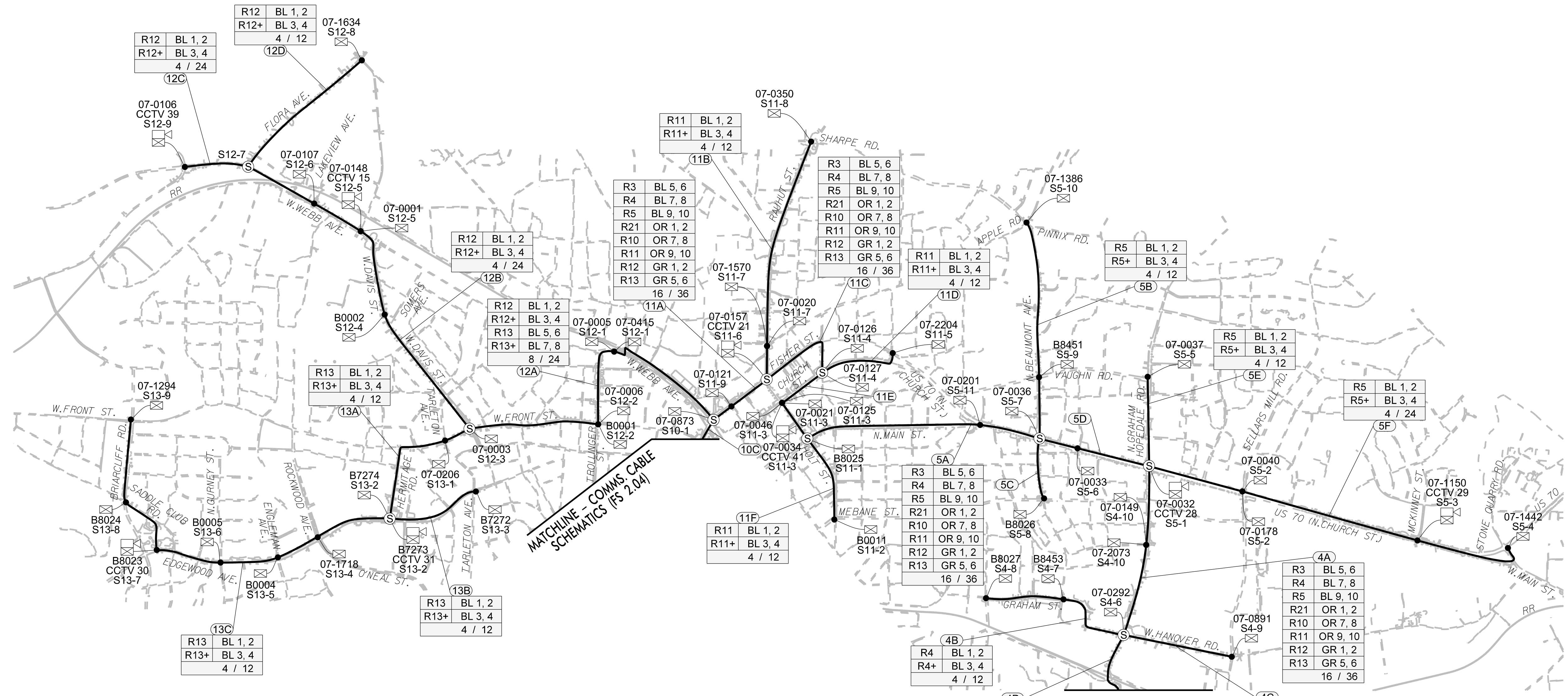
LEGEND: Symbols for cable-to-cable splice, drop splices to CCTV and signal cabinets, new/existing fiber-optic cables, splice numbers, city/state signal inventory numbers, CCTV IDs, ring numbers, fiber pairs assigned to ring, total fibers in cable, and fiber buffer tubes (BL, OR, GR, BR).

- NOTES: 1. CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS. 2. CCTV 9 AND CCTV 11 TO BE REMOVED AND NOT SHOWN ON CABLE SCHEMATICS FOR CLARITY. 3. CABLE ID NUMBERS REPRESENT UNIQUE CABLE NAMES BETWEEN TWO CABLE-TO-CABLE SPLICES, OR BETWEEN A CABLE-TO-CABLE SPLICE AND THE END OF A CABLE RUN; CABLE ID NUMBERS DO NOT CHANGE BETWEEN SIMPLE DROP CABLE SPLICES.



ATKINS logo and contact information. Project title: Burlington-Graham Signal System Comms. Cable Schematics (2 of 4). Division 7, Alamance County, Burlington & Graham. Includes a seal for Bradford J. Slocum, Engineer, and a disclaimer: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED.

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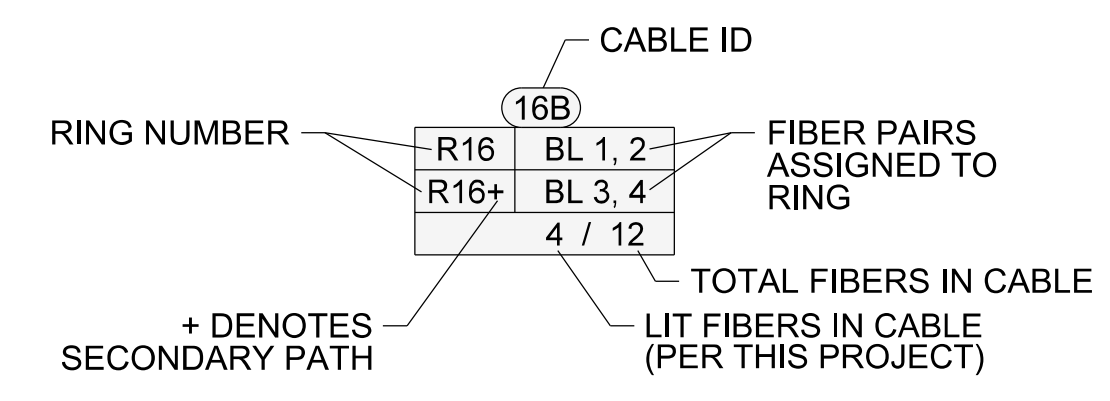
LEGEND

- CABLE-TO-CABLE SPLICE
- DROP SPLICE TO CCTV CABINET
- DROP SPLICE TO SIGNAL CABINET
- DROP SPLICE TO SIGNAL CABINET (SHARED SWITCH WITH CCTV)
- DROP SPLICE TO BUILDING (STORE CABLE OUTSIDE BUILDING PER CL SHEET)
- NEW FIBER-OPTIC CABLE
- EXISTING FIBER-OPTIC CABLE
- S###** SPLICE NUMBER
- B####** CITY SIGNAL INVENTORY NUMBER
- 07-####** STATE SIGNAL INVENTORY NUMBER
- CCTV ##** CCTV ID

NOTES:

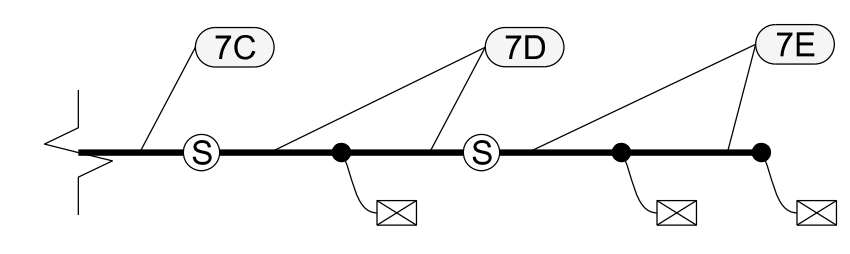
1. CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS.
2. CCTV 9 AND CCTV 11 TO BE REMOVED AND NOT SHOWN ON CABLE SCHEMATICS FOR CLARITY.
3. CABLE ID NUMBERS REPRESENT UNIQUE CABLE NAMES BETWEEN TWO CABLE-TO-CABLE SPLICES, OR BETWEEN A CABLE-TO-CABLE SPLICE AND THE END OF A CABLE RUN; CABLE ID NUMBERS DO NOT CHANGE BETWEEN SIMPLE DROP CABLE SPLICES.

(5C)	(5D)	(10C)	(11E)
R5 BL 1, 2 R5+ BL 3, 4 4 / 12	R3 BL 5, 6 R4 BL 7, 8 R5 BL 9, 10 R21 OR 1, 2 R10 OR 7, 8 R11 OR 9, 10 R12 GR 1, 2 R13 GR 5, 6 16 / 36	R3 BL 5, 6 R4 BL 7, 8 R5 BL 9, 10 R21 OR 1, 2 R10 OR 7, 8 R11 OR 9, 10 R12 GR 1, 2 R13 GR 5, 6 16 / 36	R3 BL 5, 6 R4 BL 7, 8 R5 BL 9, 10 R21 OR 1, 2 R10 OR 7, 8 R11 OR 9, 10 R12 GR 1, 2 R13 GR 5, 6 16 / 36



FIBER BUFFER TUBES

- BL - BLUE
- OR - ORANGE
- GR - GREEN
- BR - BROWN



14 JUN 2018 10:03
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Burlington-Graham Signal System Comms. Cable Schematics (3 of 4)

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: HA BADGETT

PREPARED BY: BJ SLOCUM REVIEWED BY: DL JONES

REVISIONS: _____ INIT. DATE

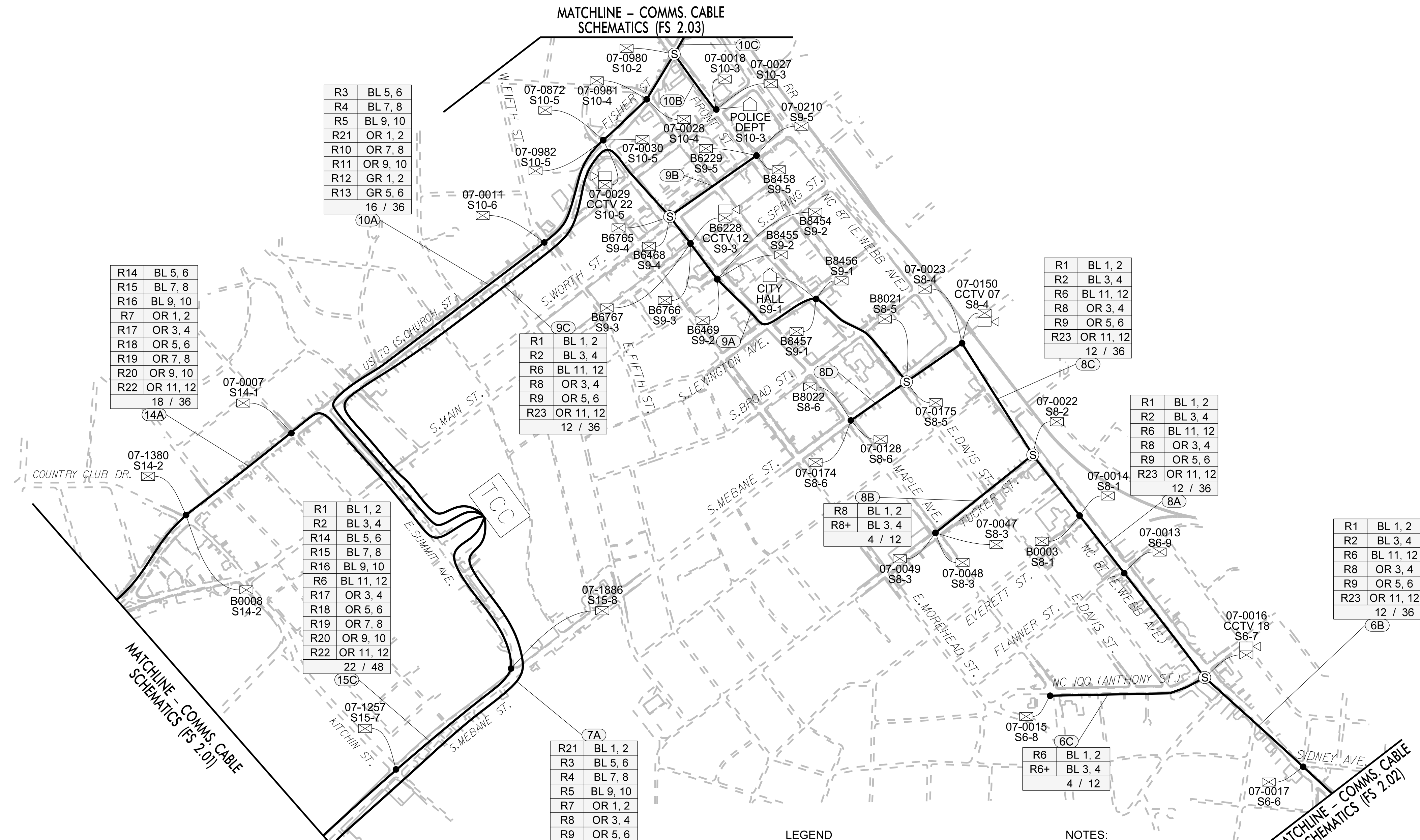
SEAL

BRADFORD J. SLOCUM
ENGINEER
15/2018

750 Greenfield Parkway, Garner, NC 27529

SCALE 1/4 MI

MATCHLINE - COMMS. CABLE SCHEMATICS (FS 2.03)



(8D)

R8	BL 1, 2
R8+	BL 3, 4
4 / 12	

(9A)

R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

(9B)

R9	BL 1, 2
R9+	BL 3, 4
4 / 12	

(10B)

R10	BL 1, 2
R10+	BL 3, 4
R21	BL 5, 6
R21+	BL 7, 8
8 / 12	

(10C)

R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R21	OR 1, 2
R10	OR 7, 8
R11	OR 9, 10
R12	GR 1, 2
R13	GR 5, 6
16 / 36	

(7A)

R21	BL 1, 2
R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R7	OR 1, 2
R8	OR 3, 4
R9	OR 5, 6
R10	OR 7, 8
R11	OR 9, 10
R23	OR 11, 12
R12	GR 1, 2
R13	GR 5, 6
24 / 48	

(8C)

R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

(8A)

R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

(6B)

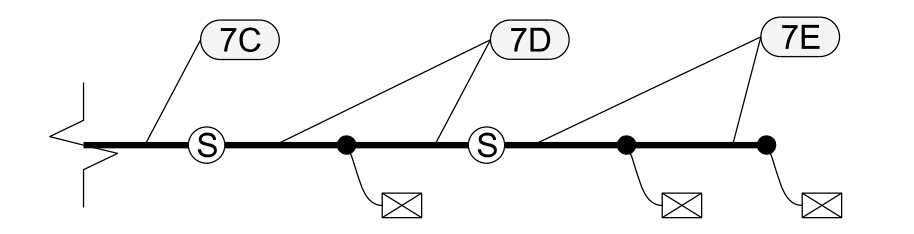
R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

LEGEND

- (S) CABLE-TO-CABLE SPLICE
 - CCTV DROP SPLICE TO SIGNAL CABINET
 - SIGNAL DROP SPLICE TO SIGNAL CABINET
 - CCTV DROP SPLICE TO SIGNAL CABINET (SHARED SWITCH WITH CCTV)
 - STORE SPLICE TO BUILDING (STORE CABLE OUTSIDE BUILDING PER CL SHEET)
 - NEW FIBER-OPTIC CABLE
 - - - EXISTING FIBER-OPTIC CABLE
 - S#-### SPLICE NUMBER
 - B##### CITY SIGNAL INVENTORY NUMBER
 - 07-#### STATE SIGNAL INVENTORY NUMBER
 - CCTV # CCTV ID
 - CABLE ID
- RING NUMBER
- | | |
|--------|---------|
| R16 | BL 1, 2 |
| R16+ | BL 3, 4 |
| 4 / 12 | |
- FIBER PAIRS ASSIGNED TO RING
- TOTAL FIBERS IN CABLE (PER THIS PROJECT)
- + DENOTES SECONDARY PATH
- FIBER BUFFER TUBES
- | | |
|----|----------|
| BL | - BLUE |
| OR | - ORANGE |
| GR | - GREEN |
| BR | - BROWN |

NOTES:

- CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS.
- CCTV 9 AND CCTV 11 TO BE REMOVED AND NOT SHOWN ON CABLE SCHEMATICS FOR CLARITY.
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Comms. Cable Schematics (4 of 4)		Burlington & Graham	
Division 7	Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT		
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES		
REVISIONS	INIT.	DATE	

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 040877

BRADFORD J. SLOCUM

DocuSign Envelope ID: 1583CBA70C

15/2018

DATE

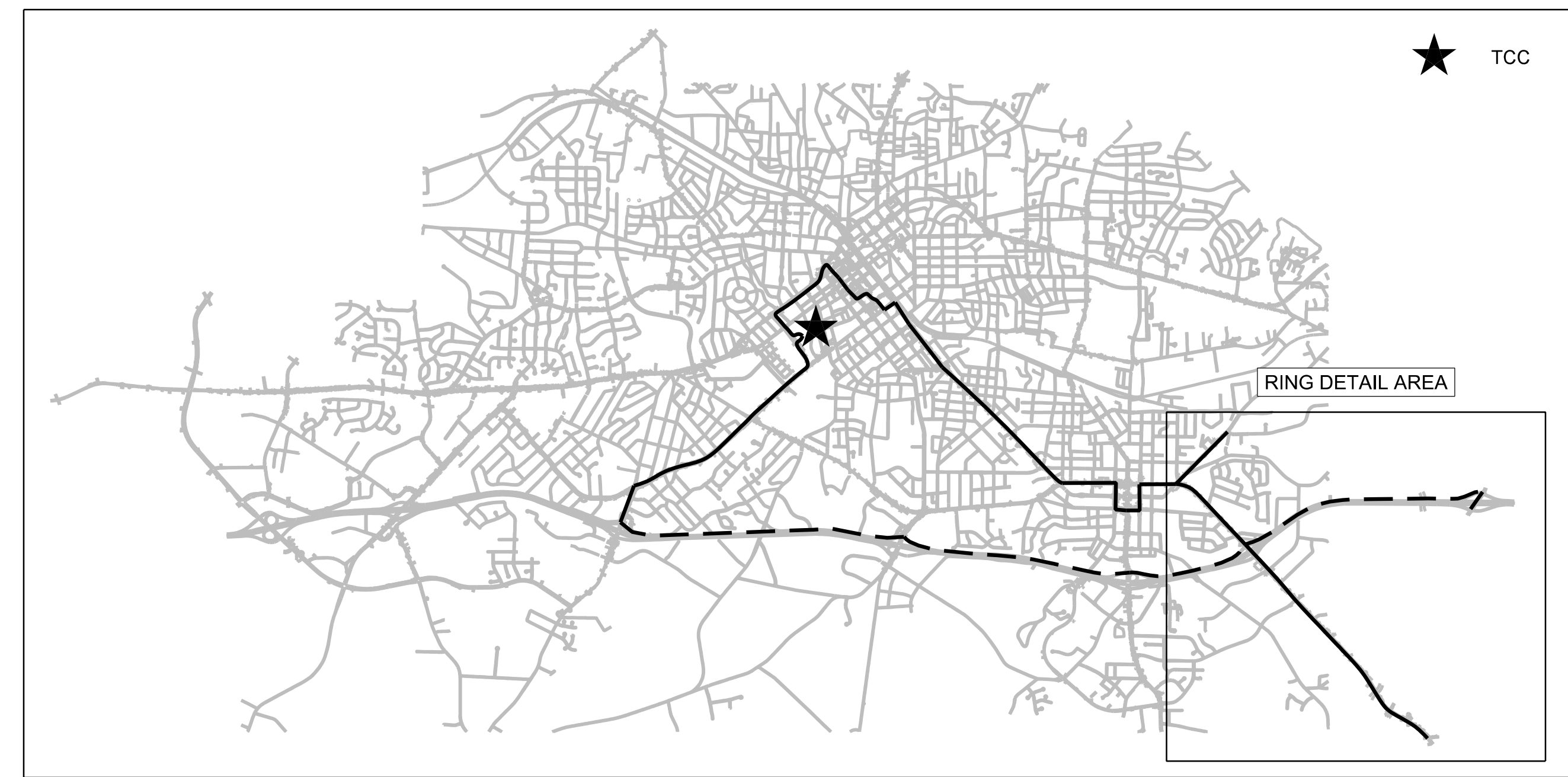
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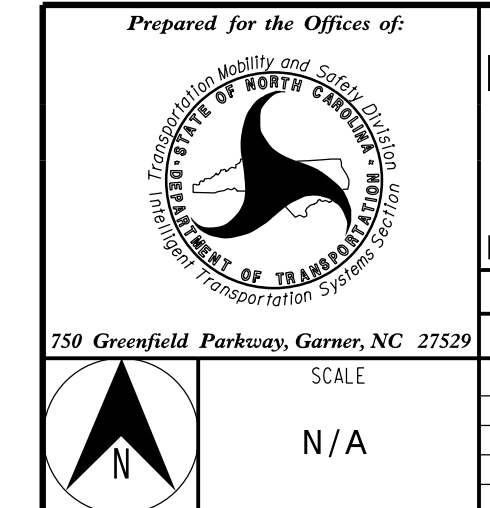
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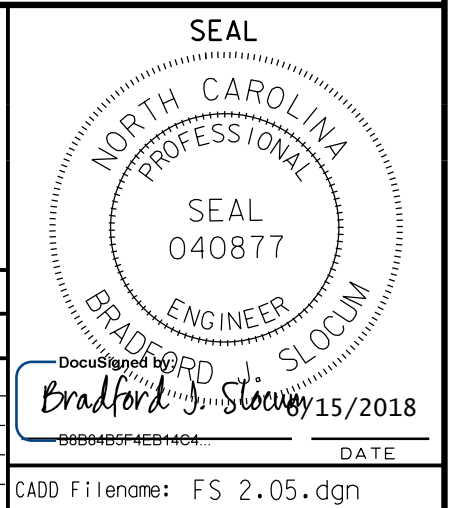
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(919) 876-6888 NCBES #F-0326

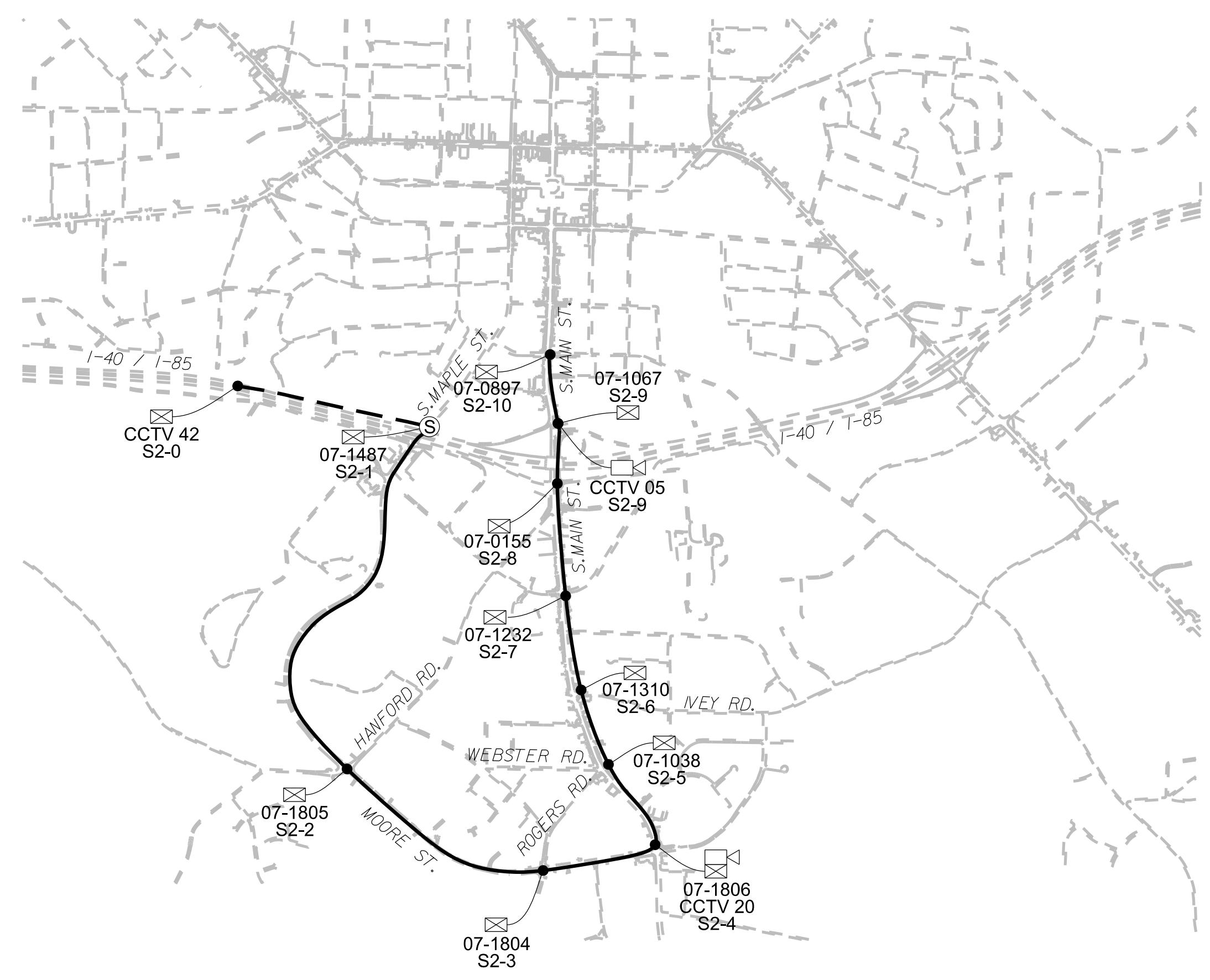
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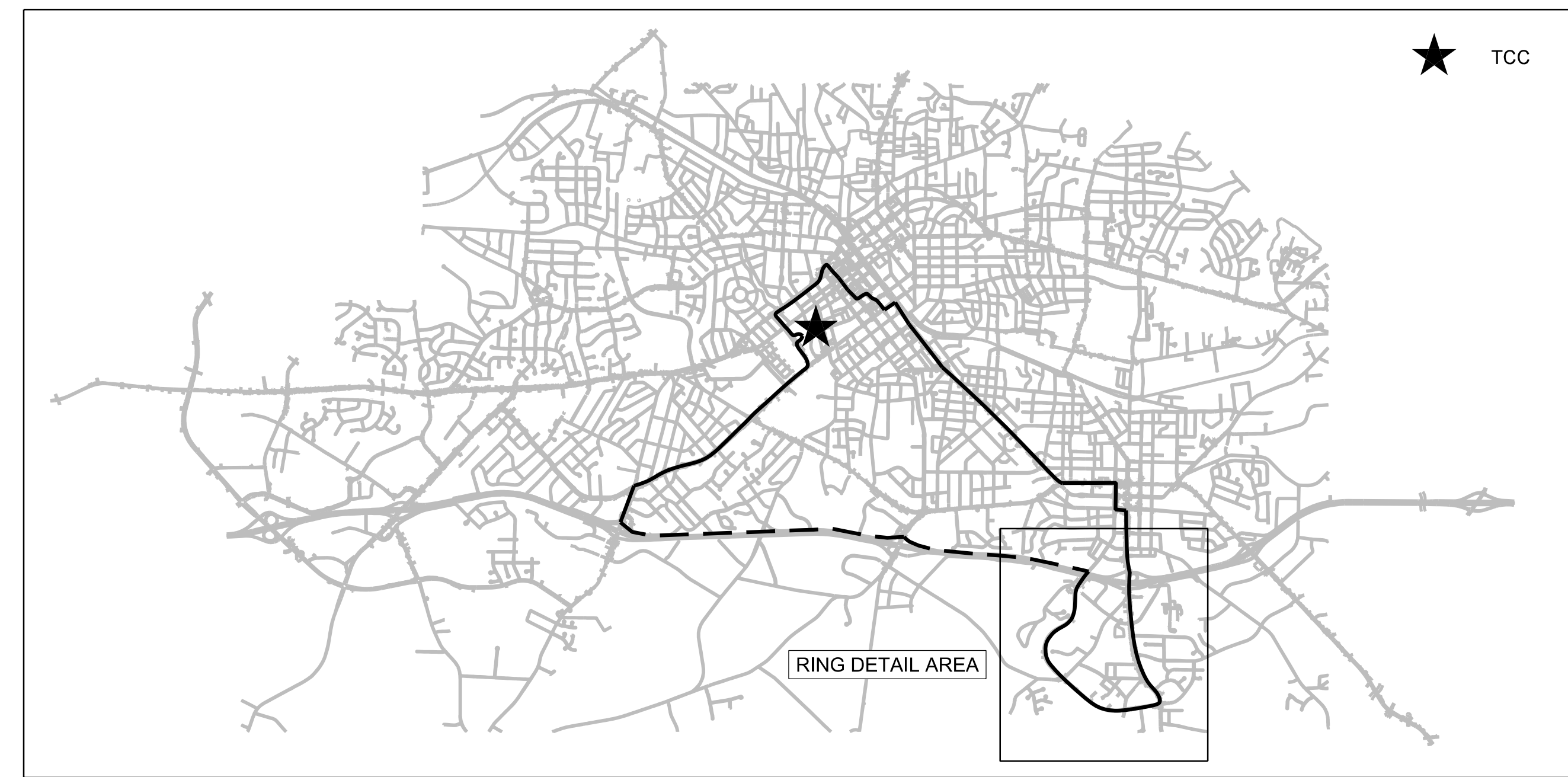
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 1)		Burlington & Graham
Division 7	Alamance County	
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE



RING 2 DETAIL




RING 2 OVERALL ROUTE



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Prepared for the Offices of:

 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 750 Greenfield Parkway, Garner, NC 27529

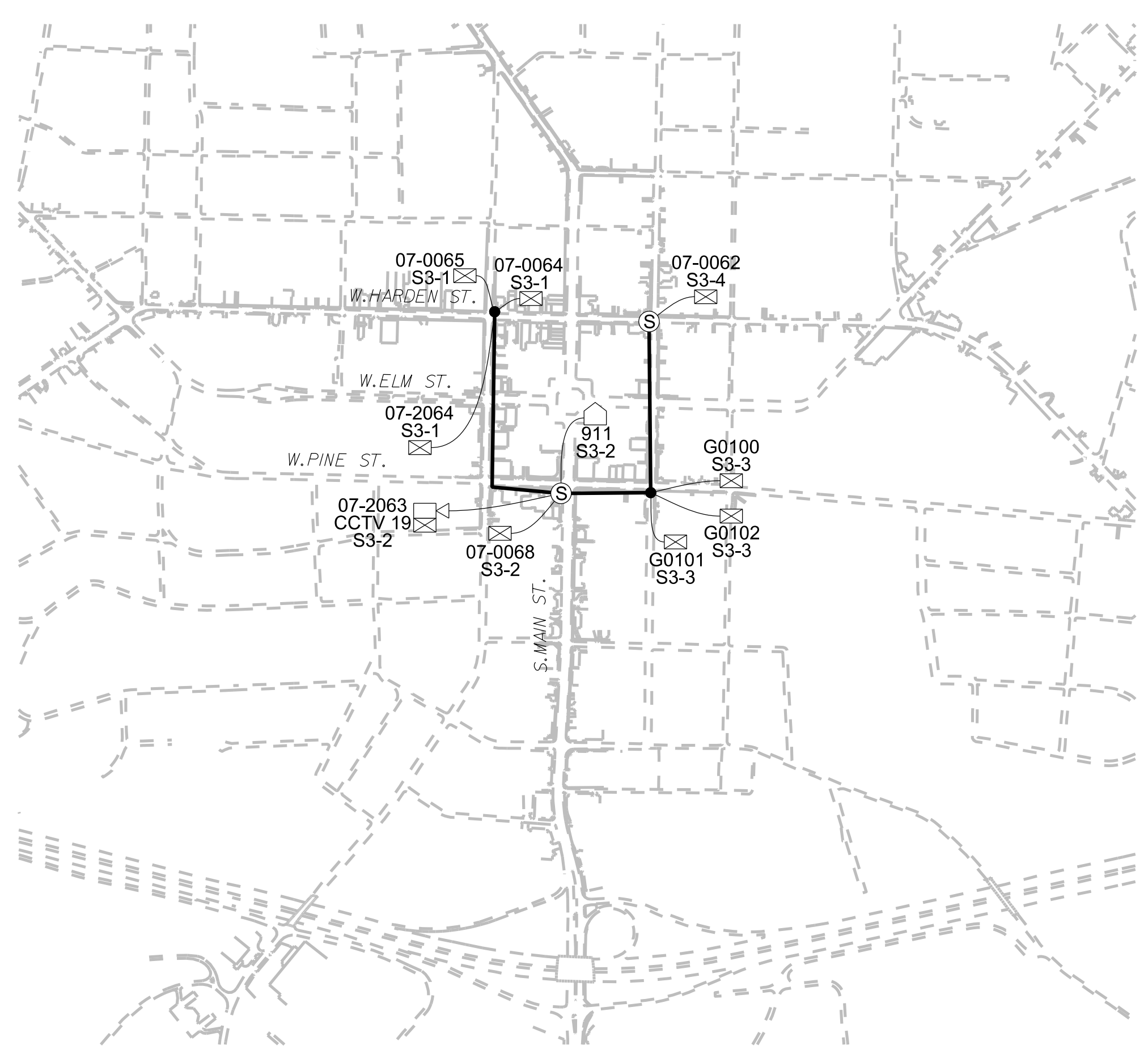
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 2)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
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 BRADFORD J. SLOCUM
 15/2018
 DATE
 CADD File name: FS 2.06.dgn

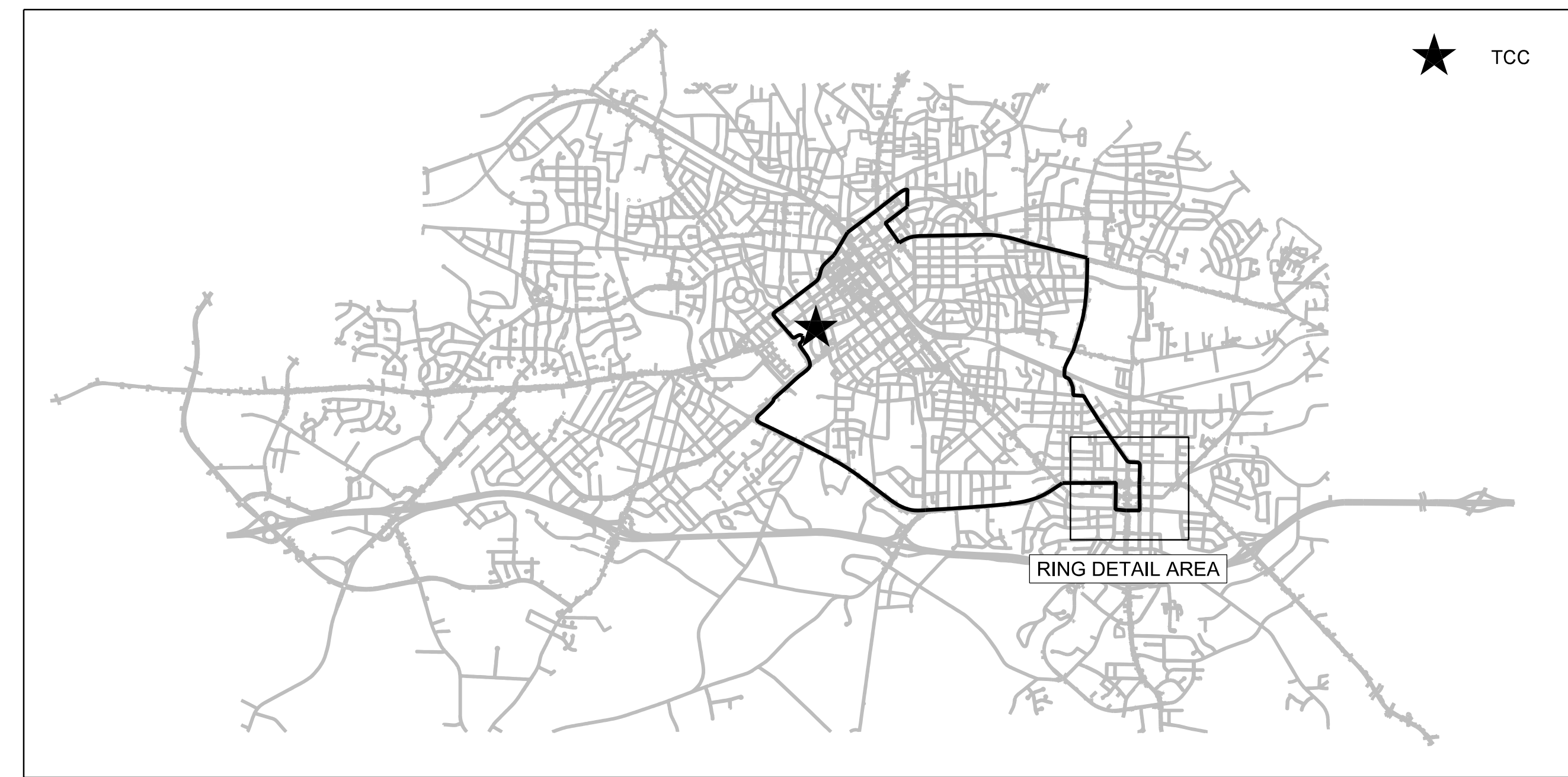


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RING 3 DETAIL



RING 3 OVERALL ROUTE



- NOTES:
- COUNTY 911 CENTER IS ON RING 21. CONNECTION SHOWN ON THIS SHEET AS ITS DROP CABLE SPLICES TO TRUNK CABLE AT S3-1. SEE FIBER-OPTIC RING SCHEMATICS (RINGS 21, 22, 23) FOR OVERALL RING ROUTE.

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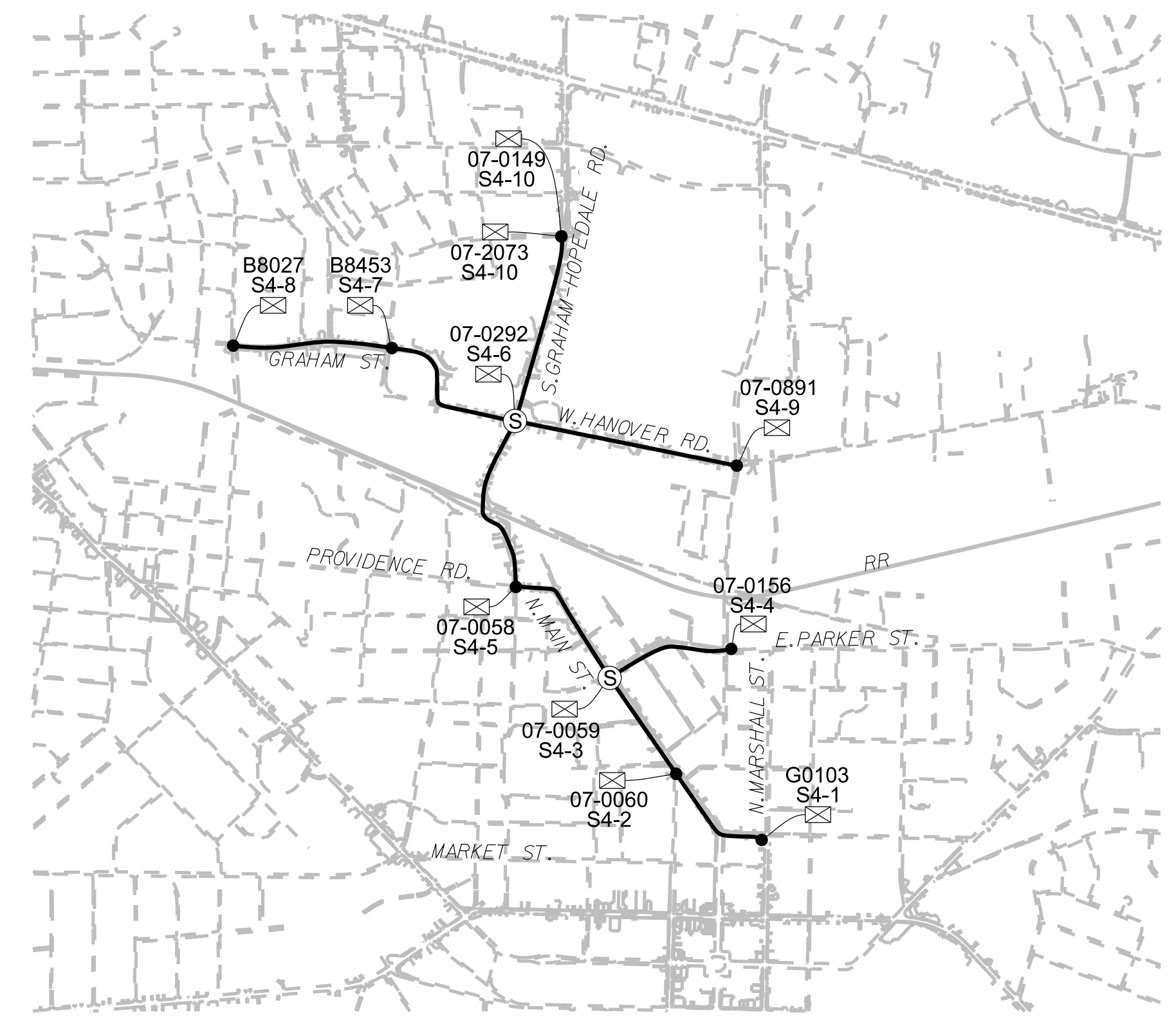
 750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 3)		Burlington & Graham
Division 7	Alamance County	
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

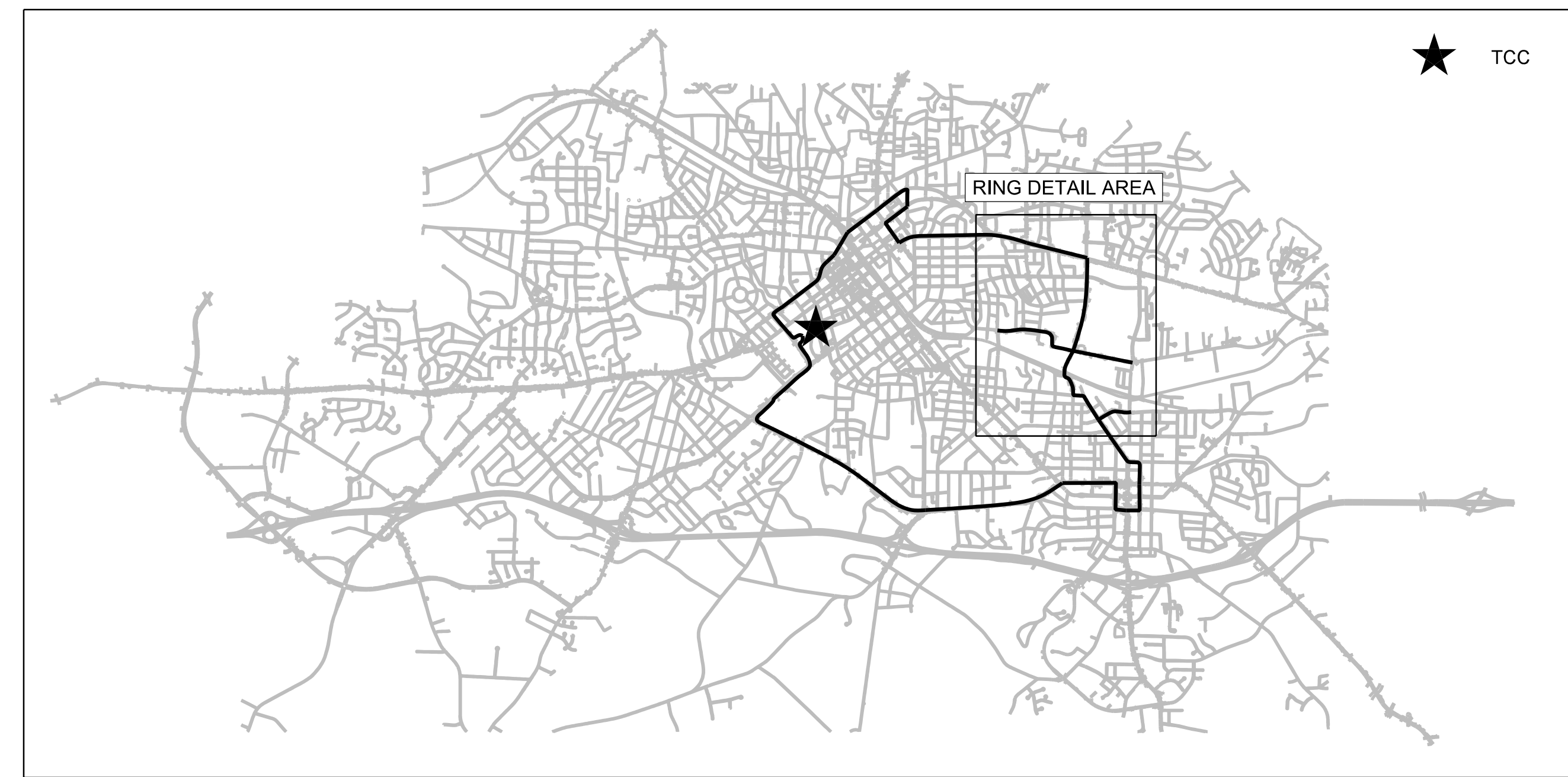
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 BRADFORD J. SLOCUM
 15/2018
 DATE
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 SLOCUM

RING 4 DETAIL




RING 4 OVERALL ROUTE



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SLOCUM AT LUS355433

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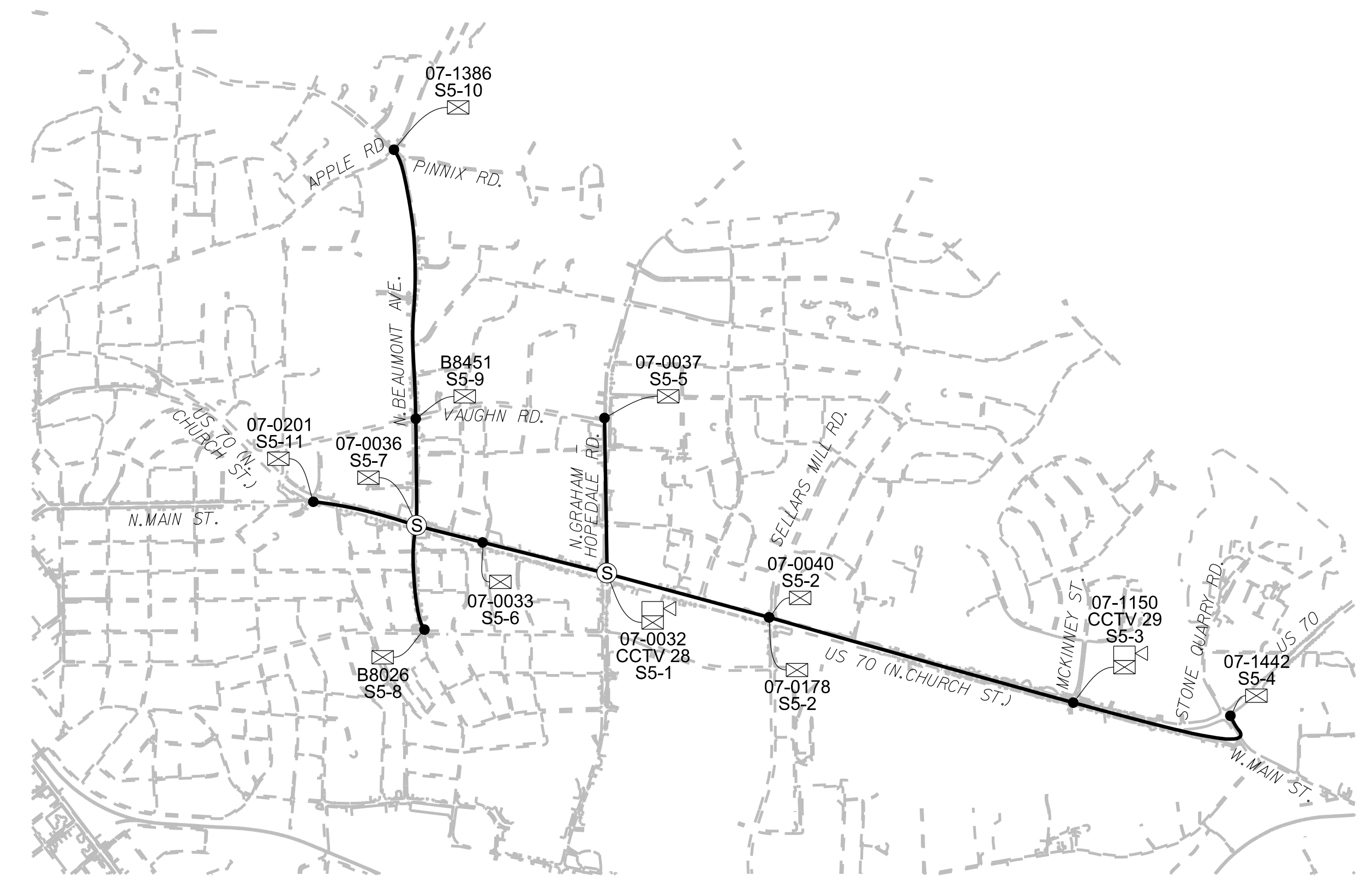
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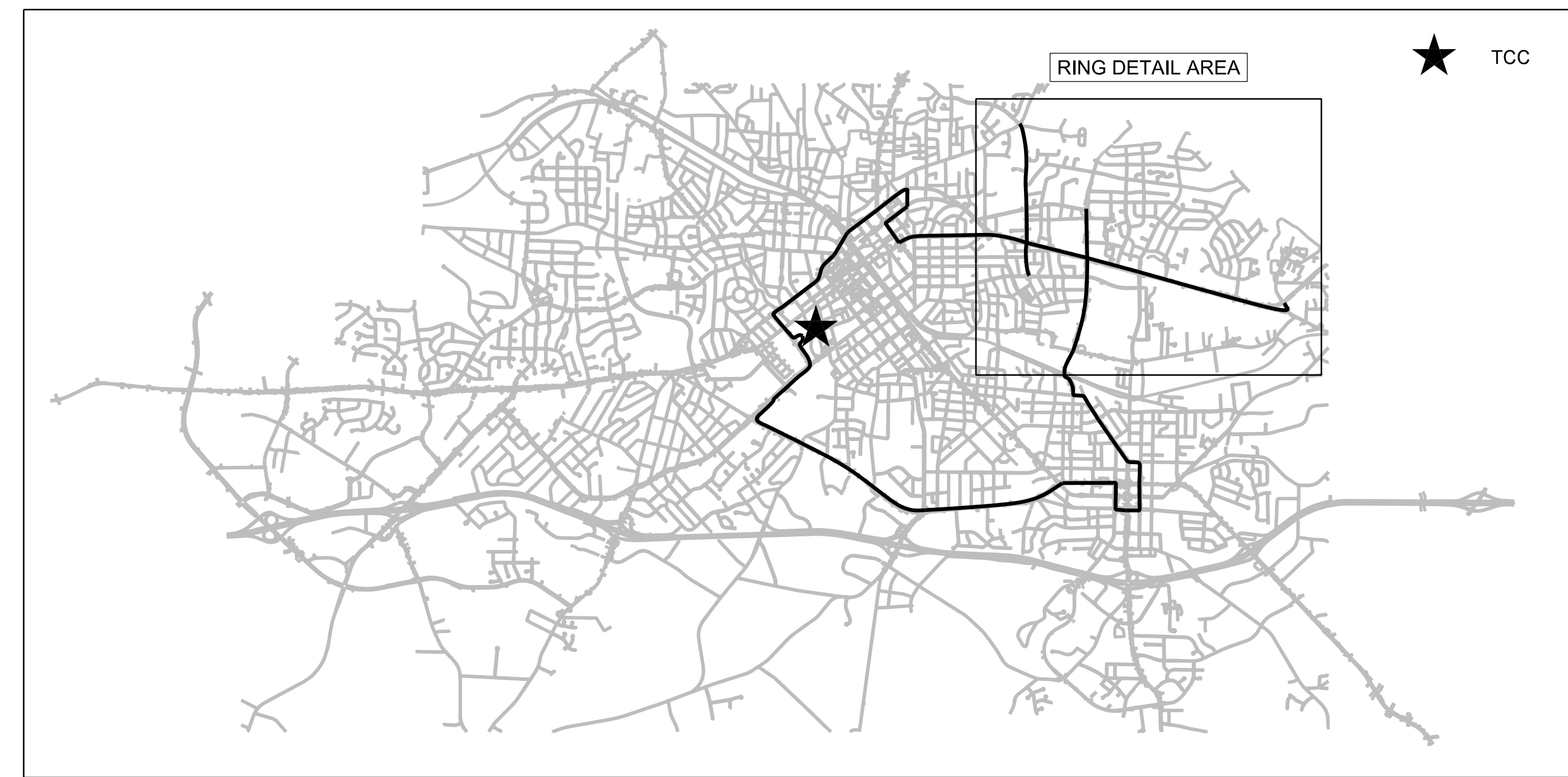
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 4)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

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 SEAL
 040877
 ENGINEER
 BRADFORD J. SLOCUM
 15/2018
 DATE

RING 5 DETAIL



RING 5 OVERALL ROUTE



14 JUN 2018 10:07
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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

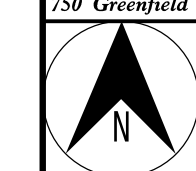
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 DEPARTMENT OF TRANSPORTATION
 State of North Carolina
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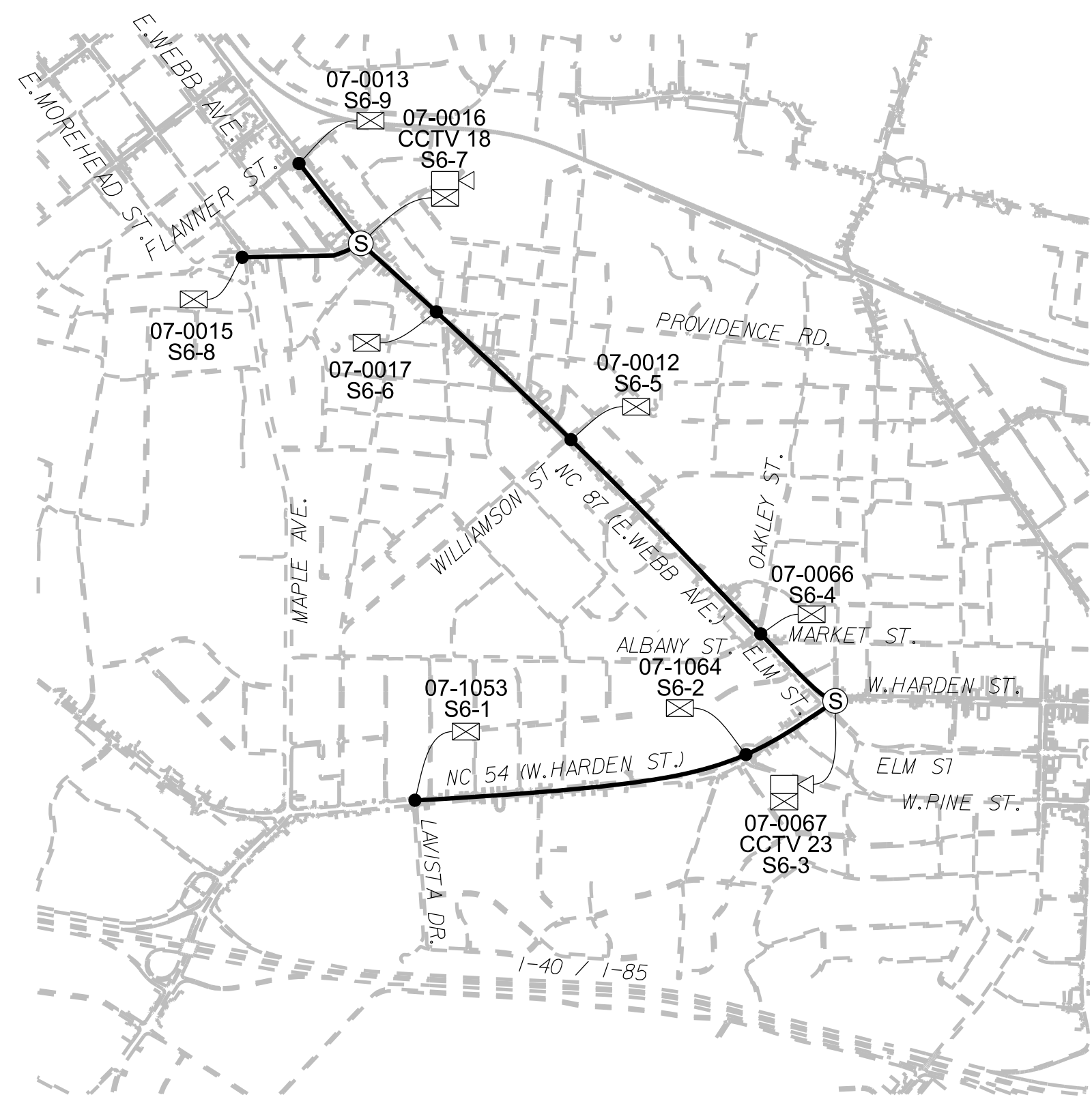
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 5)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 040877
 ENGINEER
 BRADFORD J. SLOCUM
 15/2018
 DATE
 CADD File name: FS 2.09.dgn

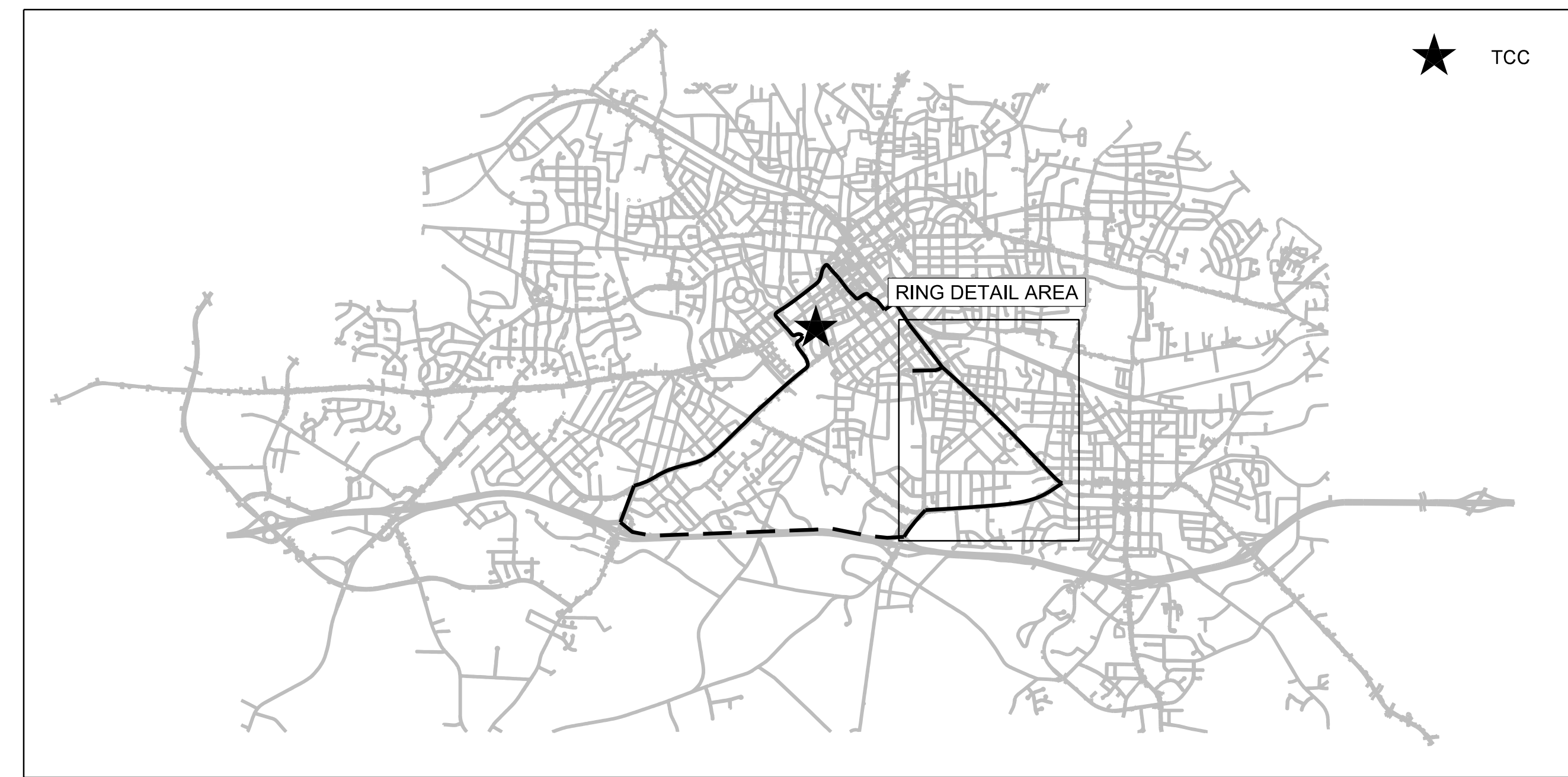


SCALE
N/A

RING 6 DETAIL



RING 6 OVERALL ROUTE



14 JUN 2018 10:07
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

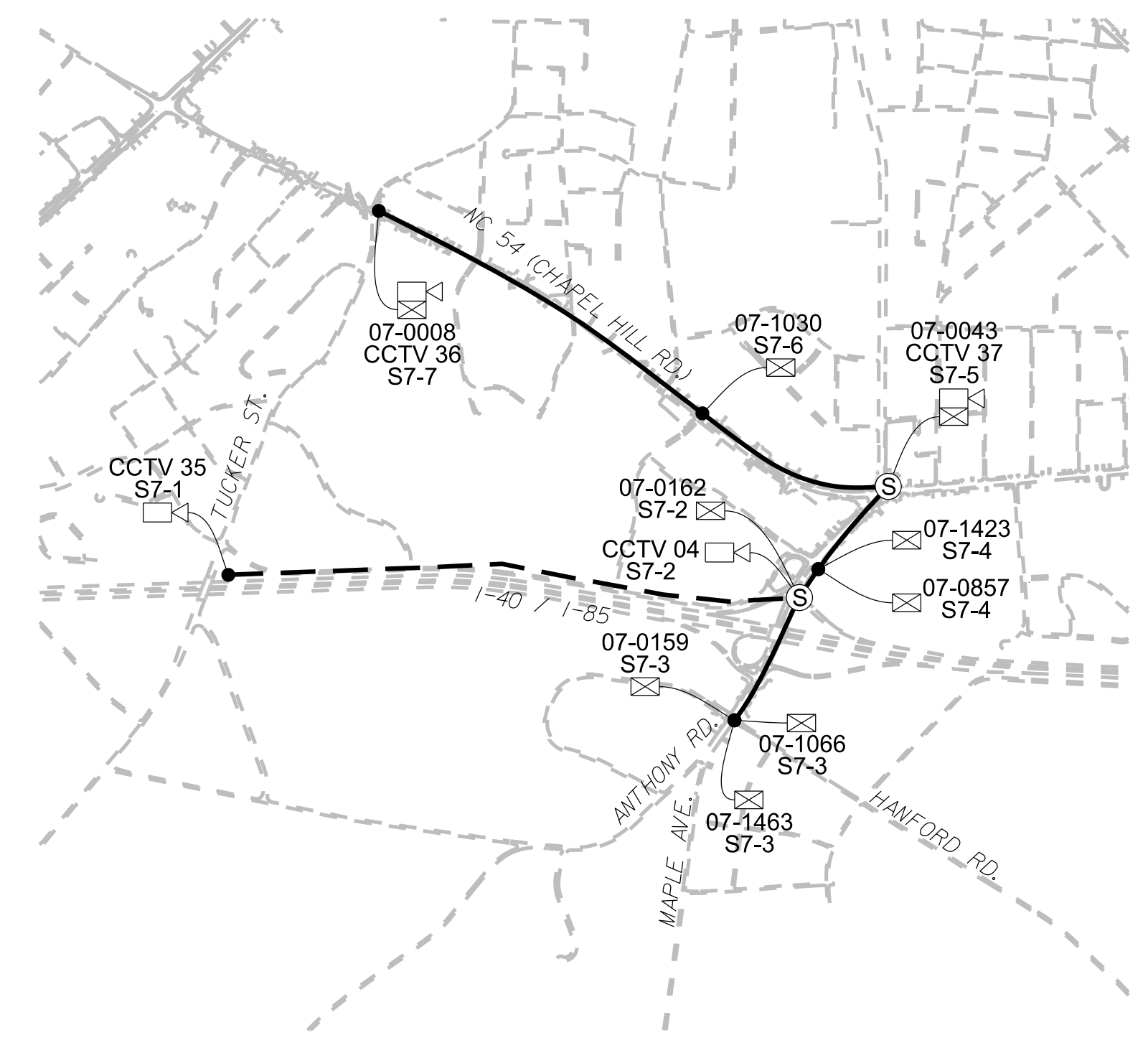
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 6)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

SEAL

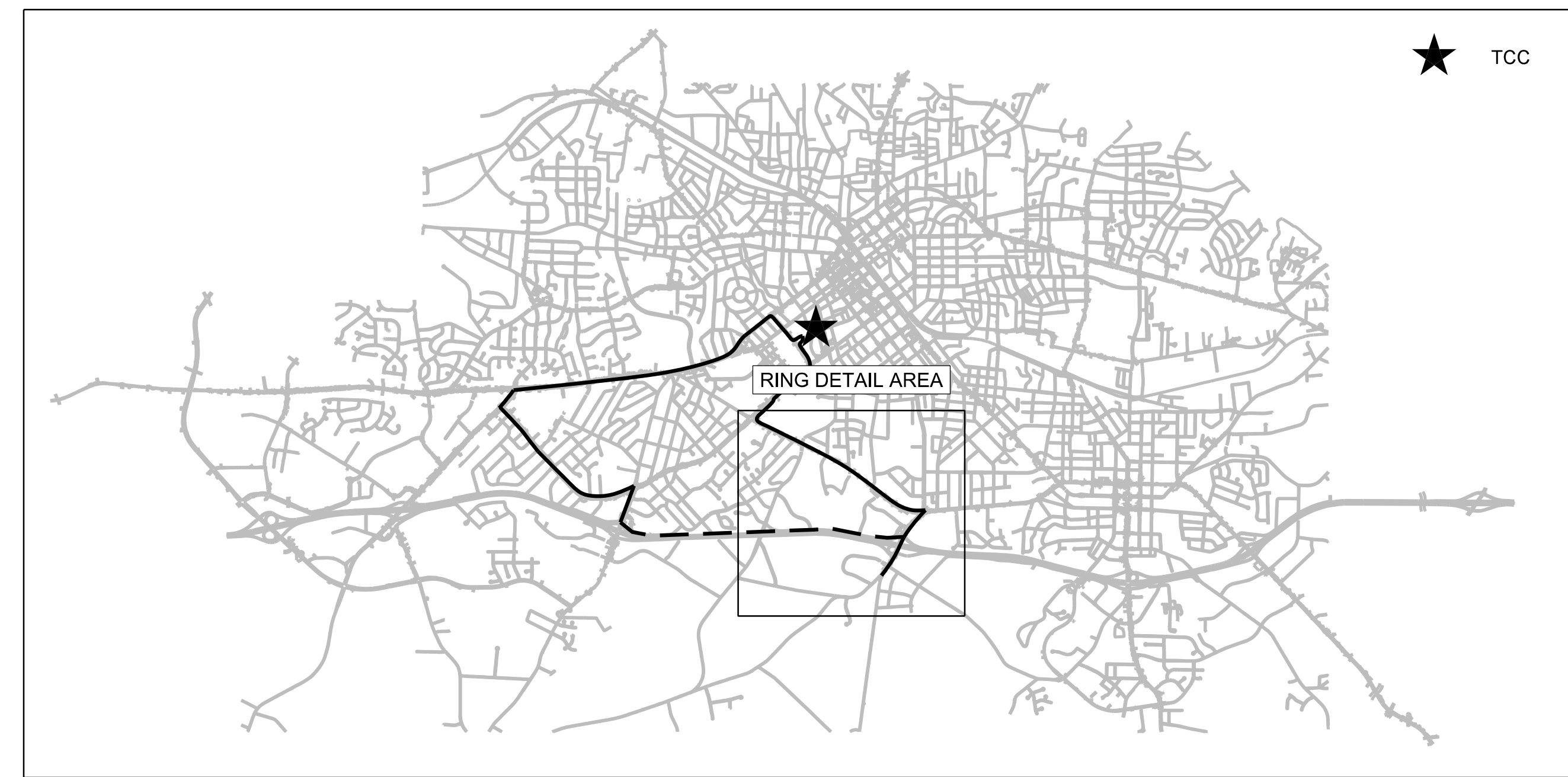
BRADFORD J. SLOCUM
ENGINEER
15/2018
DATE

CADD File name: FS 2.10.dgn

RING 7 DETAIL



RING 7 OVERALL ROUTE



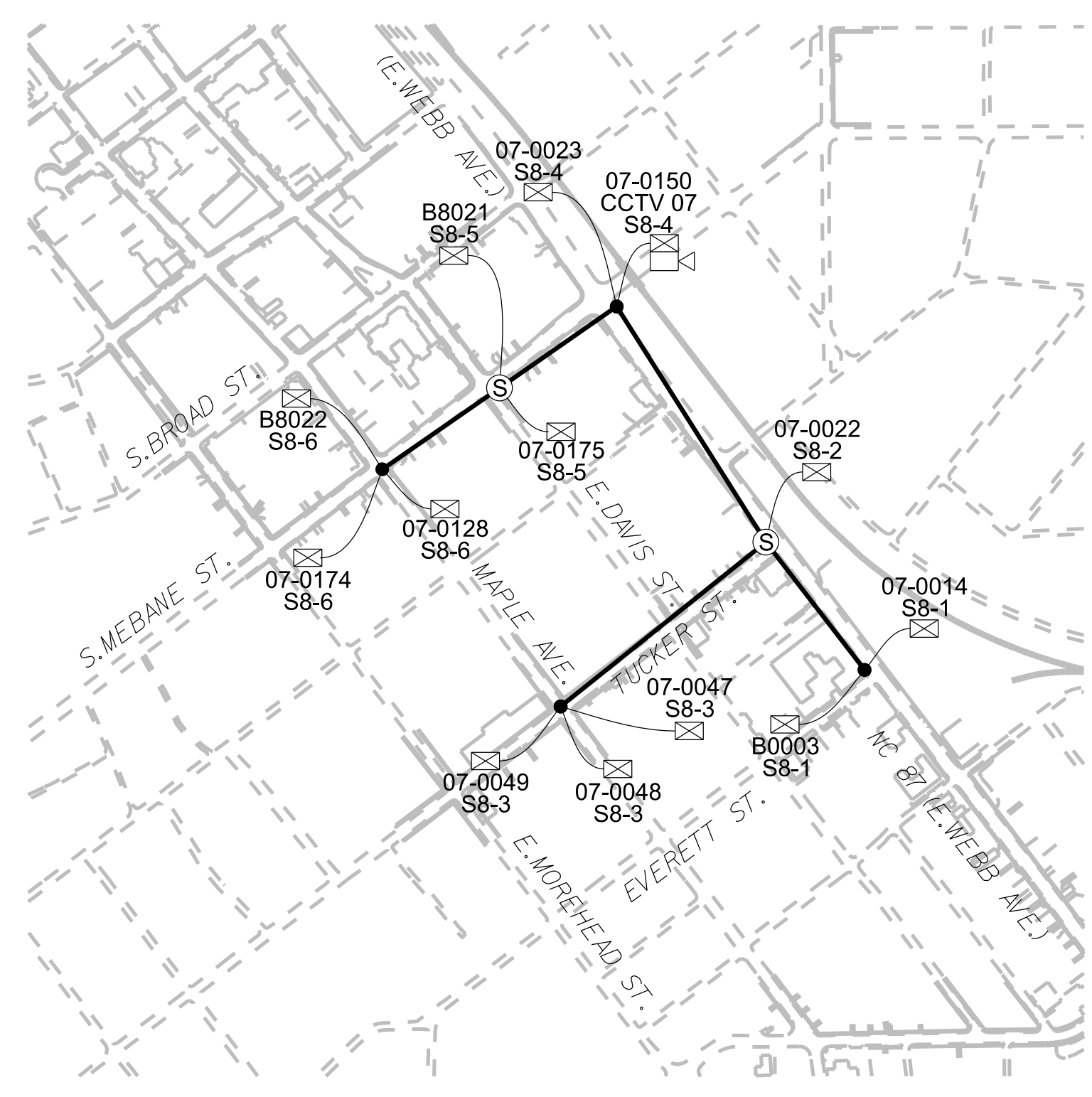
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

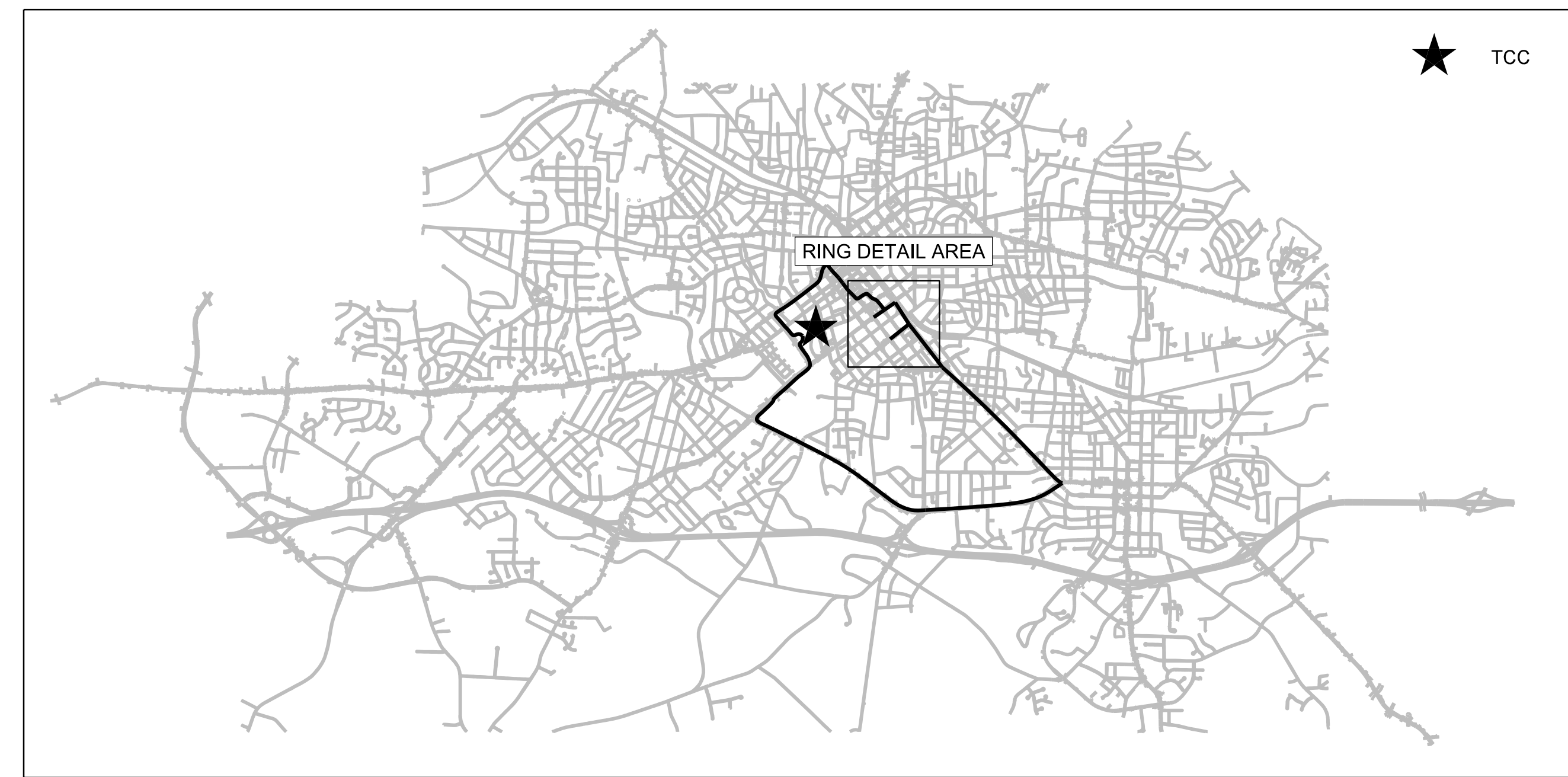
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

 Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Division of Transportation Systems	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 7)		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER BRADFORD J. SLOCUM 15/2018
	Division 7 Alamance County Burlington & Graham	PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM REVISIONS: _____ SCALE: N/A	

RING 8 DETAIL



RING 8 OVERALL ROUTE



14 JUN 2018 10:08
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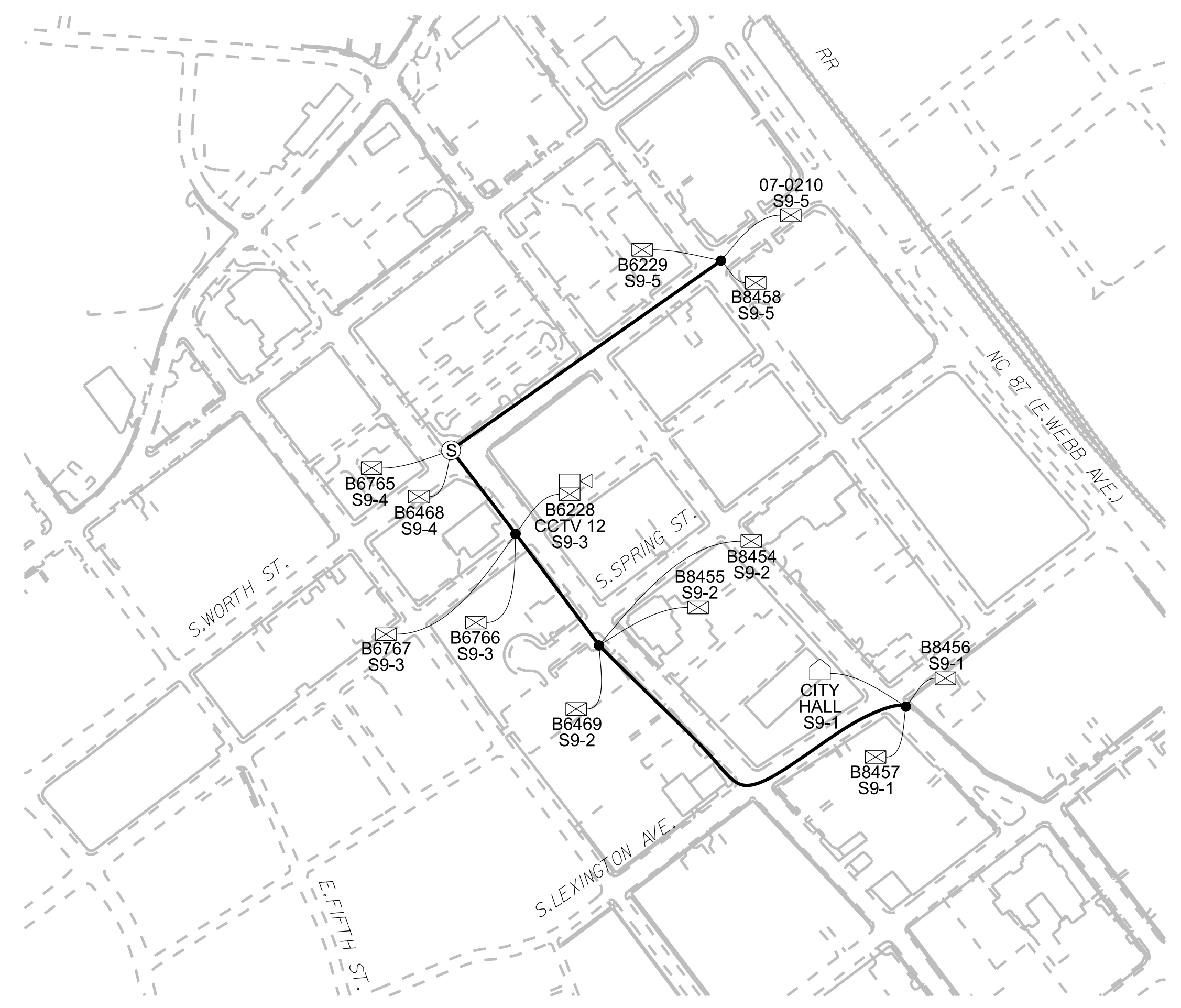
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

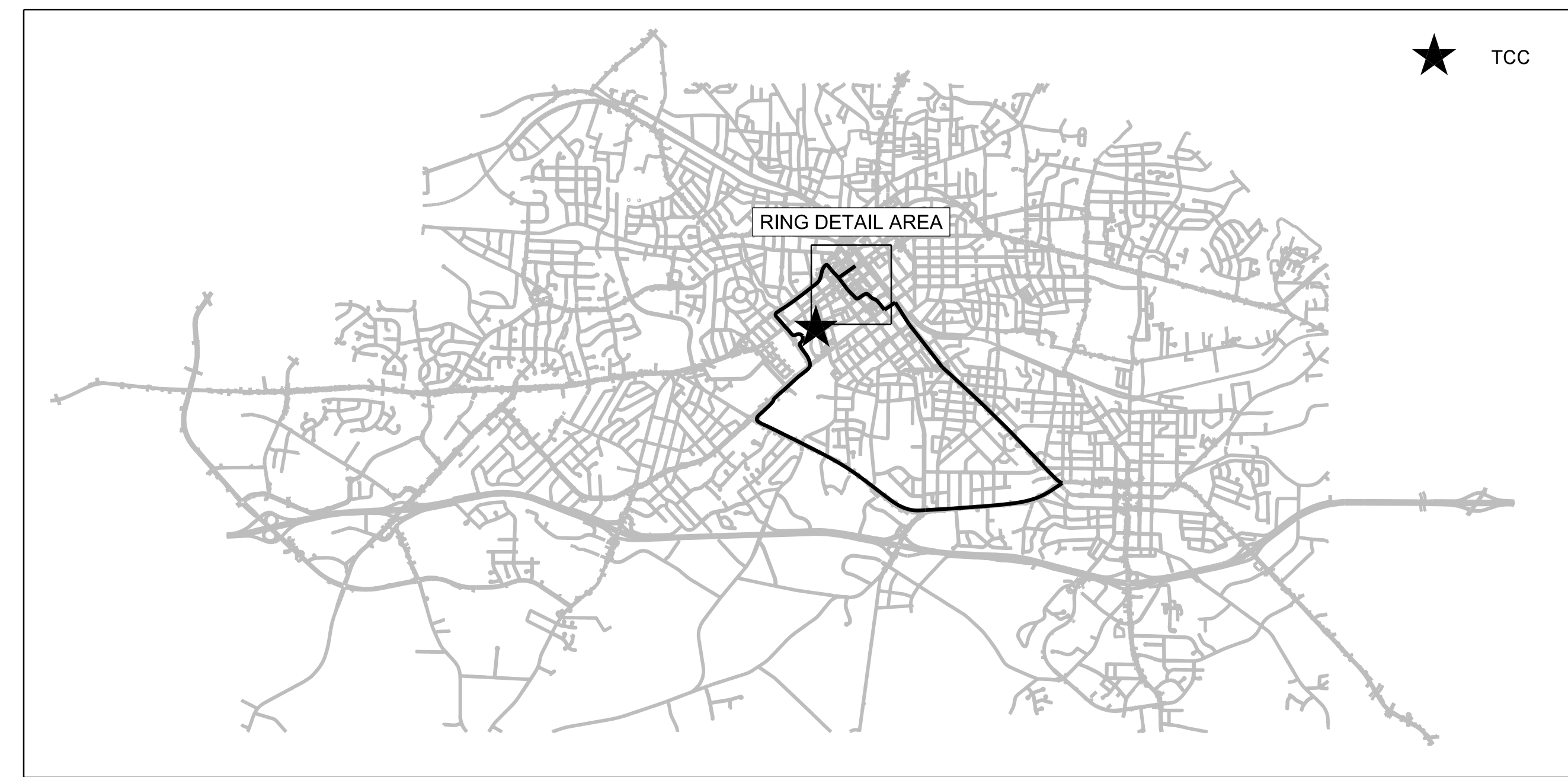
	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 8)		
	Division 7 Alamance County Burlington & Graham		
Prepared for the Offices of: 	PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
750 Greenfield Parkway, Garner, NC 27529	PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
SCALE: N/A			

DATE: 15/2018
CADD File name: FS 2.12.dgn

RING 9 DETAIL



RING 9 OVERALL ROUTE



- NOTES:
- BURLINGTON CITY HALL IS ON RING 23. CONNECTION SHOWN ON THIS SHEET AS ITS DROP CABLE SPLICES TO TRUNK CABLE AT S9-1. SEE FIBER-OPTIC RING SCHEMATICS (RINGS 21, 22, 23) FOR OVERALL RING ROUTE.

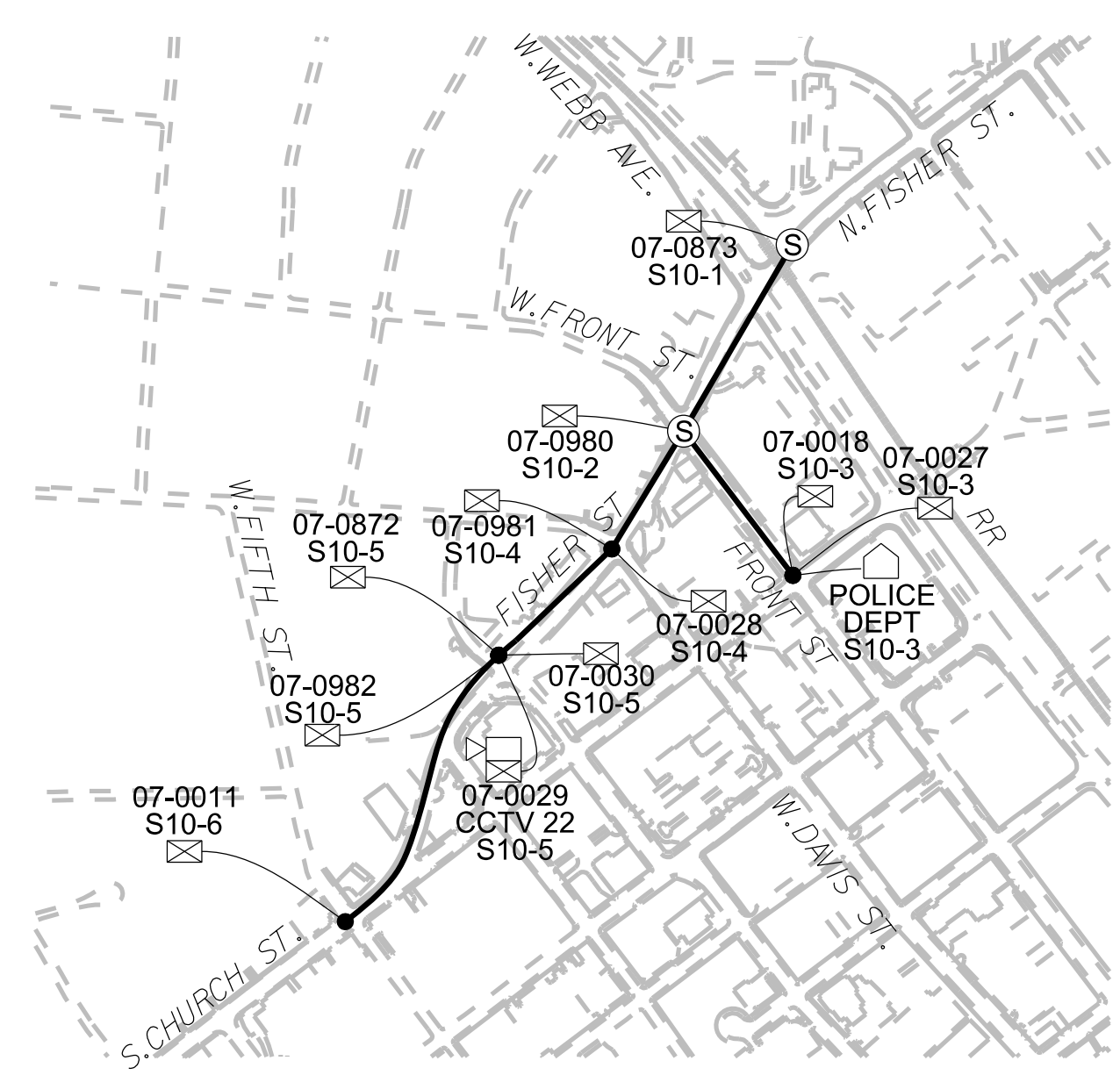
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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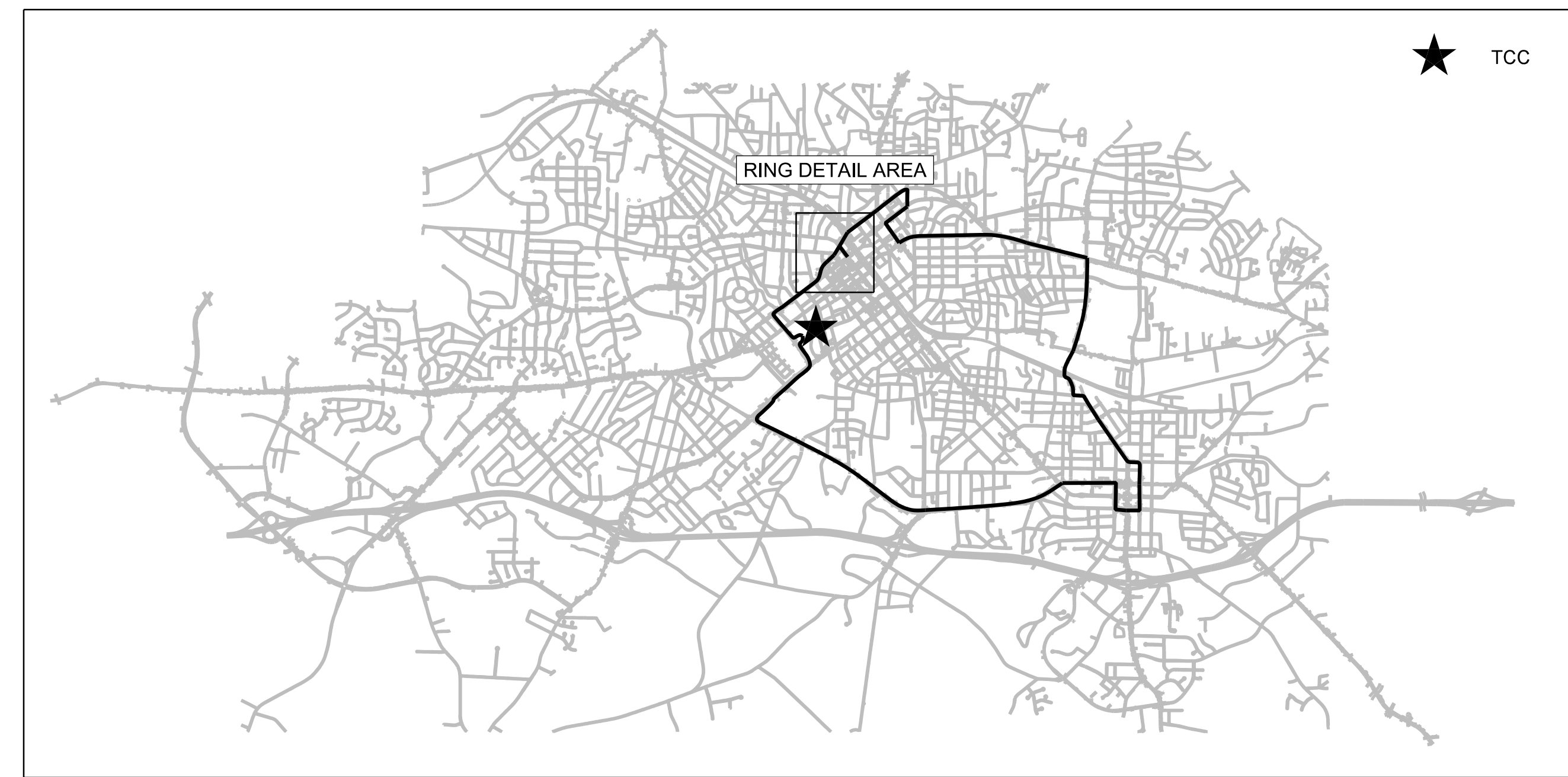
	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 9)		
	Division 7 Alameda County Burlington & Graham	Prepared by: BJ SLOCUM Reviewed by: DL JONES	
PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	REVISIONS INIT. DATE	SEAL NORTH CAROLINA PROFESSIONAL SEAL 040877 ENGINEER Bradford J. Slocum 15/2018 DATE

14 JUN 2018 10:09
 D:\projects\proj\100056469 U-6015 B-C Sig Sys\Task 11_Comms\F S 2.13.dgn
 SLOCUMS AT LUS355433

RING 10 DETAIL



RING 10 OVERALL ROUTE



- NOTES:
- POLICE DEPARTMENT IS ON RING 21. CONNECTION SHOWN ON THIS SHEET AS ITS DROP CABLE SPLICES TO TRUNK CABLE AT S10-3. SEE FIBER-OPTIC RING SCHEMATICS (RINGS 21, 22, 23) FOR OVERALL RING ROUTE.

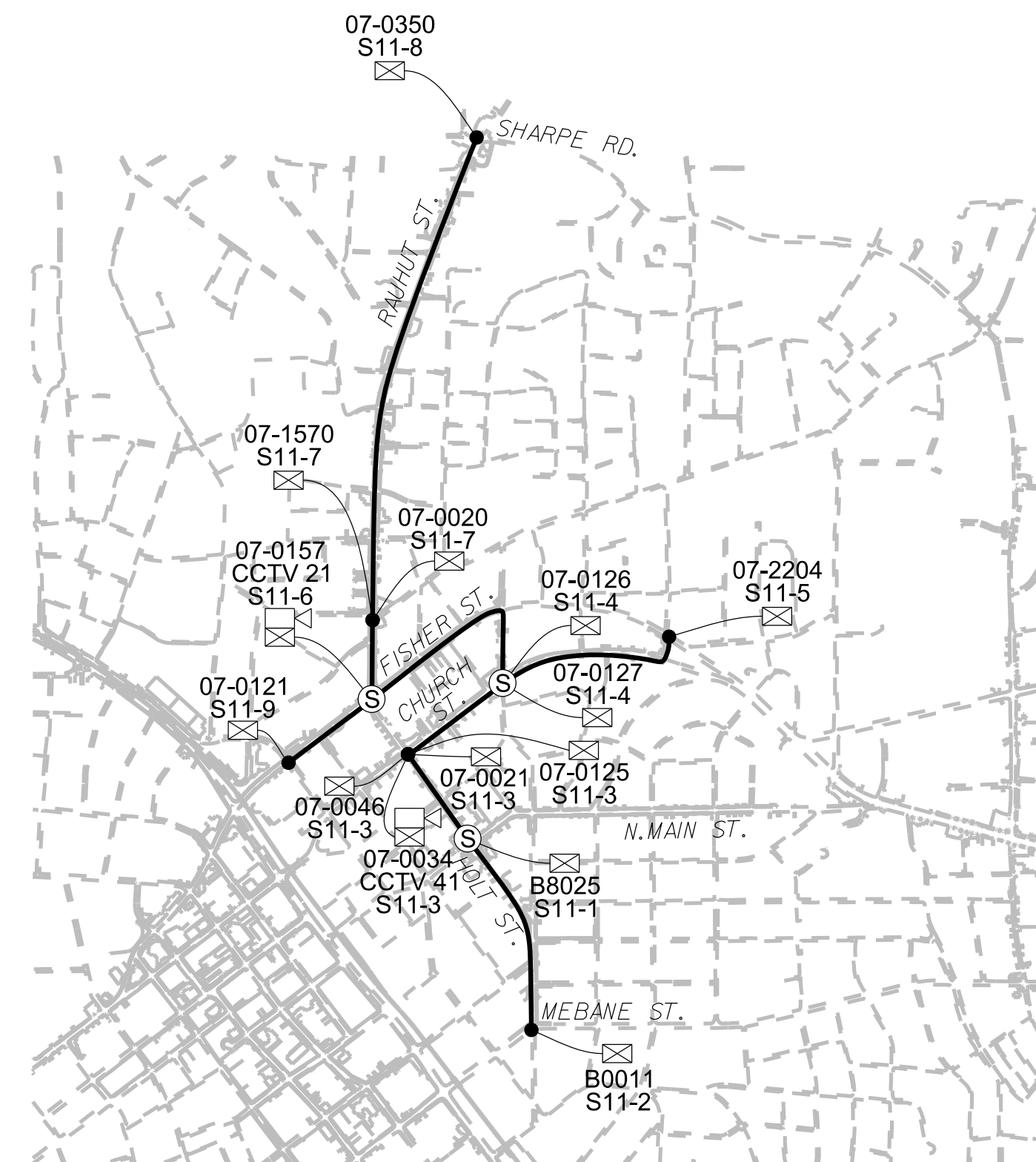
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
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**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

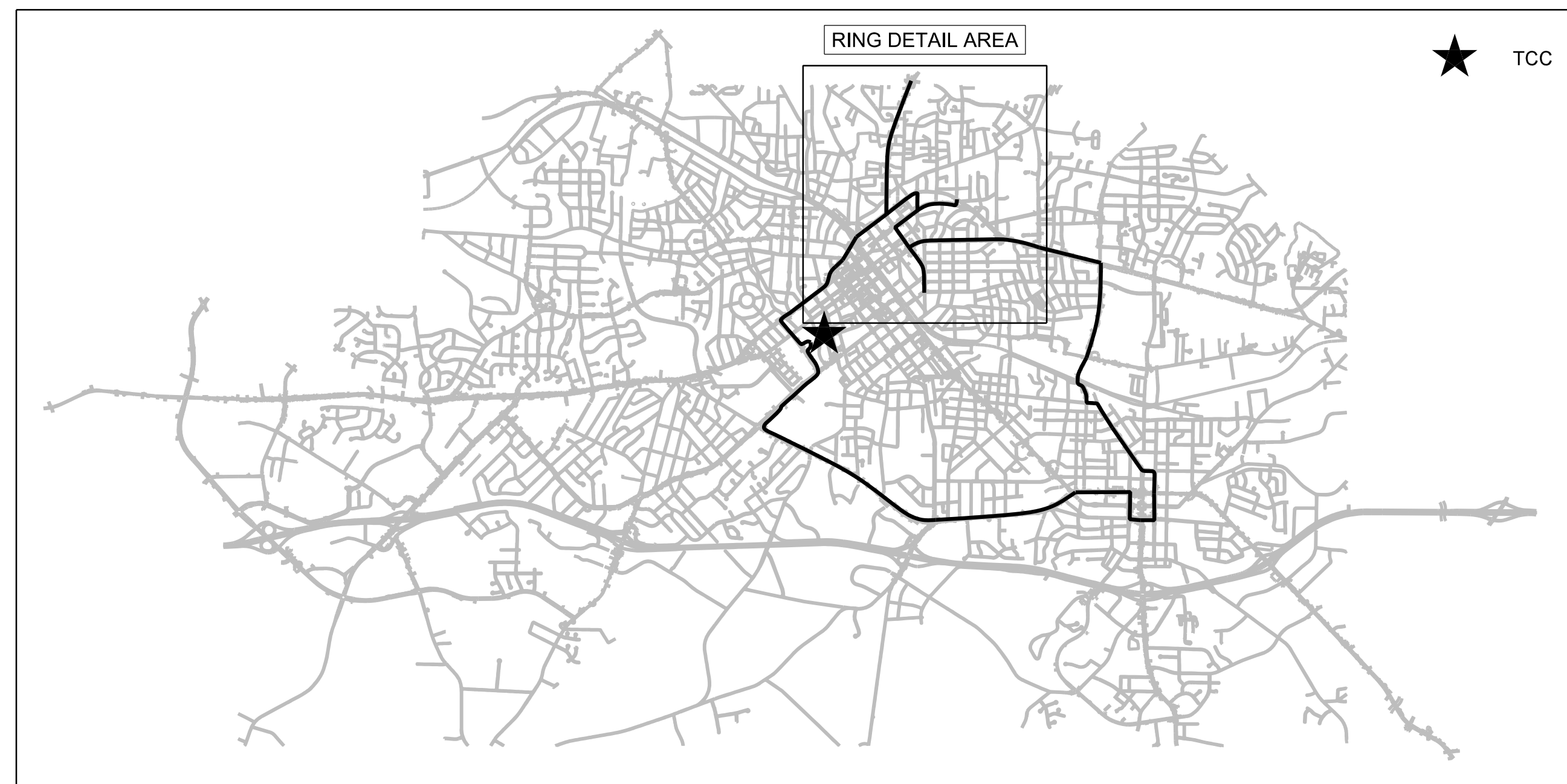
	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 10)		
	Division 7 Alameda County Burlington & Graham		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT		DATE: 15/2018
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES		
REVISIONS	INIT.	DATE	DATE
SCALE: N/A	CAD FILE NAME: FS 2.14.dgn		DATE

14 JUN 2018 10:09
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RING 11 DETAIL



RING 11 OVERALL ROUTE



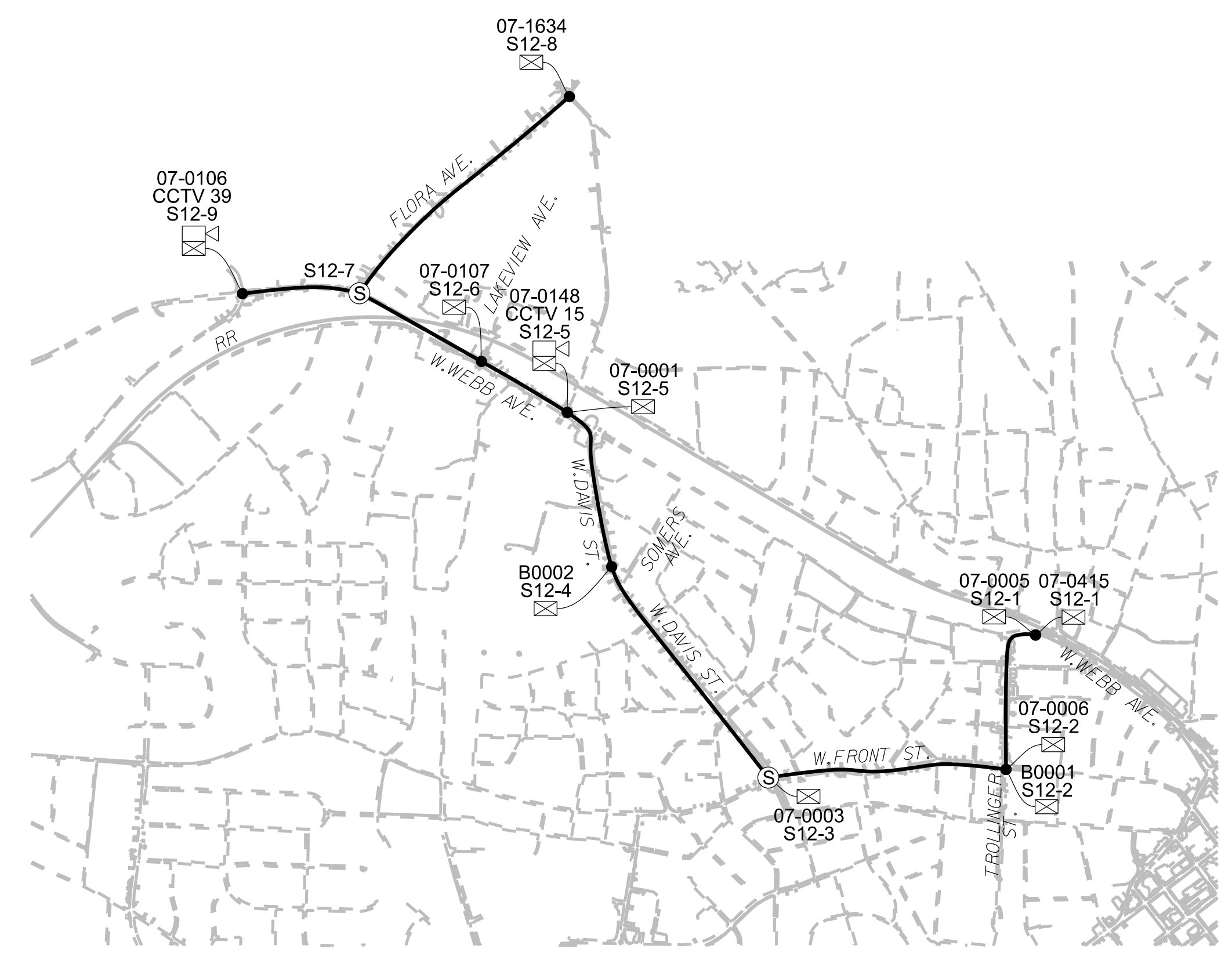
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEEES #F-0326

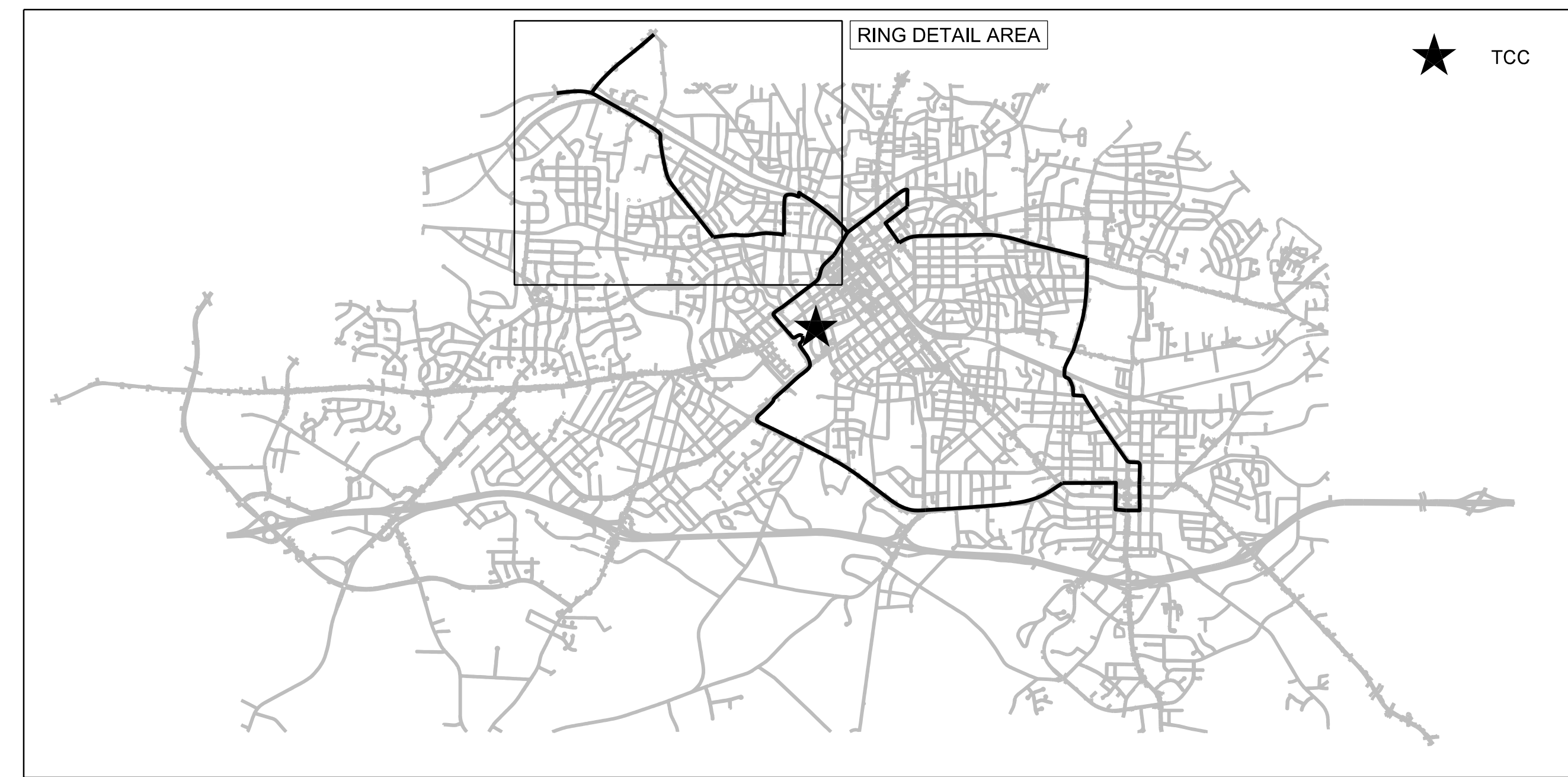
**DOCUMENT NOT CONSIDERED FINAL
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<p>750 Greenfield Parkway, Garner, NC 27529</p>	Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION TRANSPORTATION SYSTEMS DIVISION		
	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 11) Division 7 Alamance County Burlington & Graham		
PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	REVISIONS INIT. DATE	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040877 BRADFORD J. SLOCUM 15/2018 DATE

RING 12 DETAIL



RING 12 OVERALL ROUTE



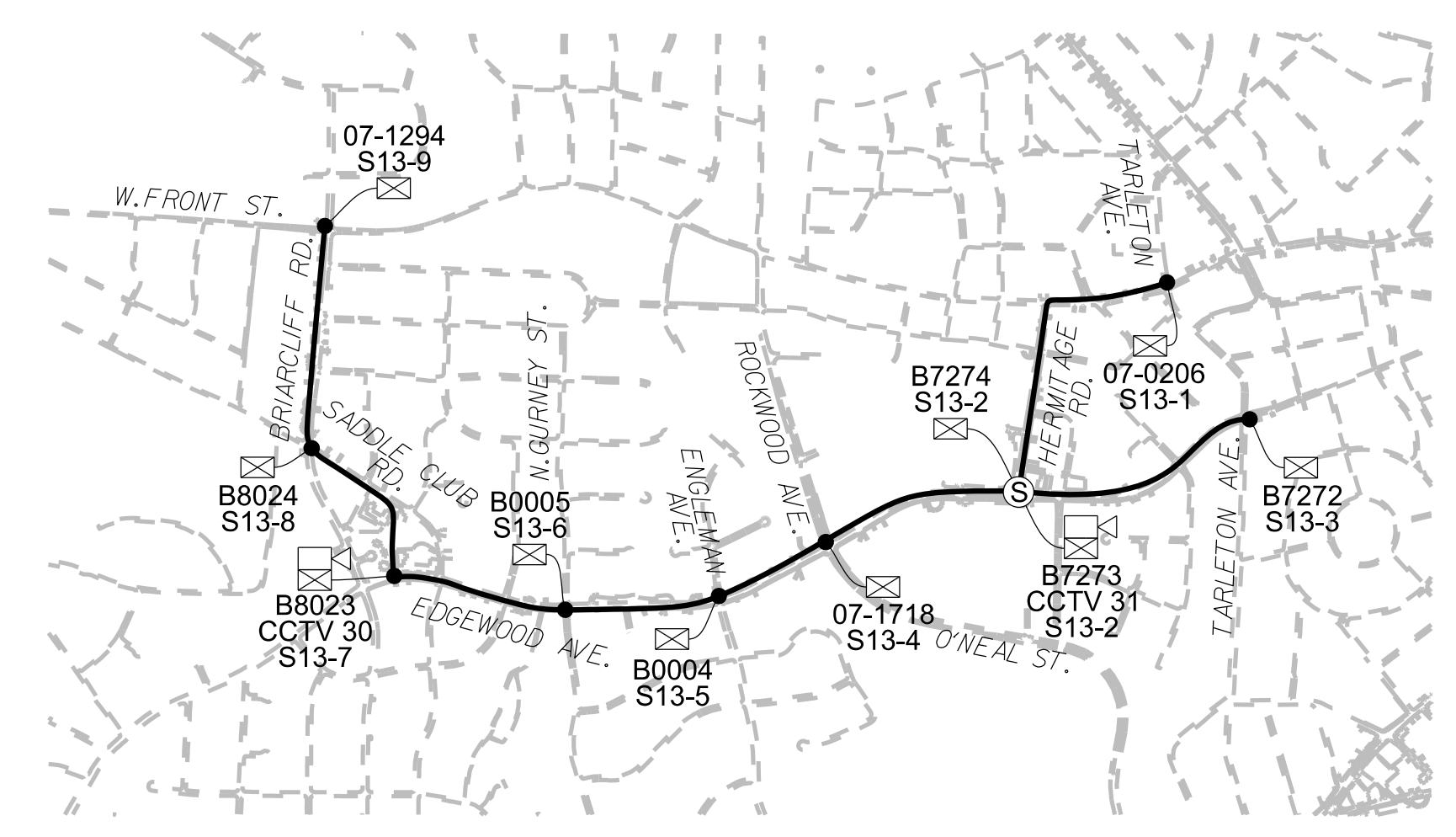
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEE #F-0326

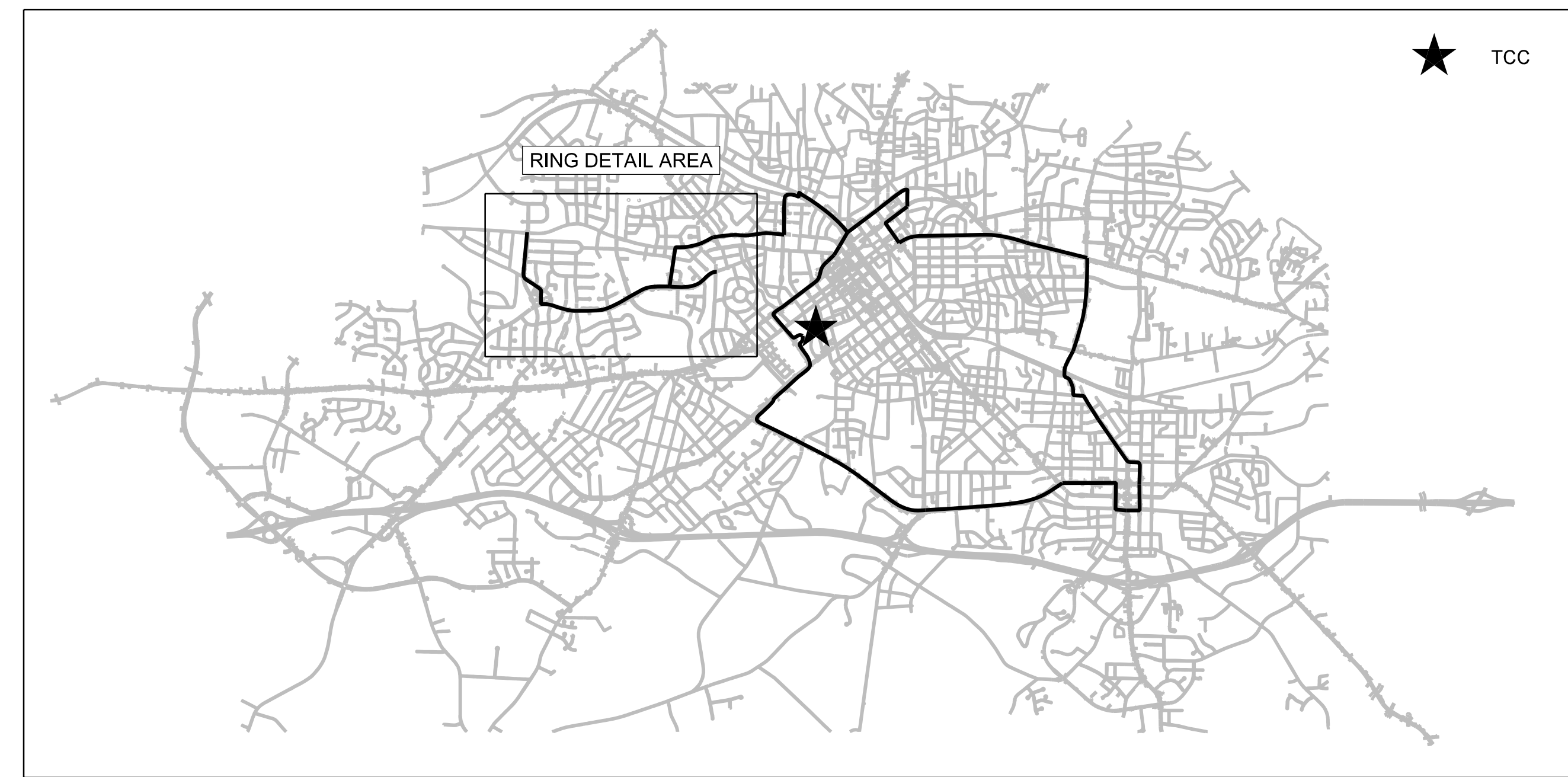
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

 Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 750 Greenfield Parkway, Garner, NC 27529	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 12)		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040877 BRADFORD J. SLOCUM ENGINEER 15/2018 DATE	
	Division 7 Alamance County Burlington & Graham	PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM REVISIONS		REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES INIT. DATE
	SCALE N/A			CADD File name: FS 2.16.dgn

RING 13 DETAIL




RING 13 OVERALL ROUTE



14 JUN 2018 10:11
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

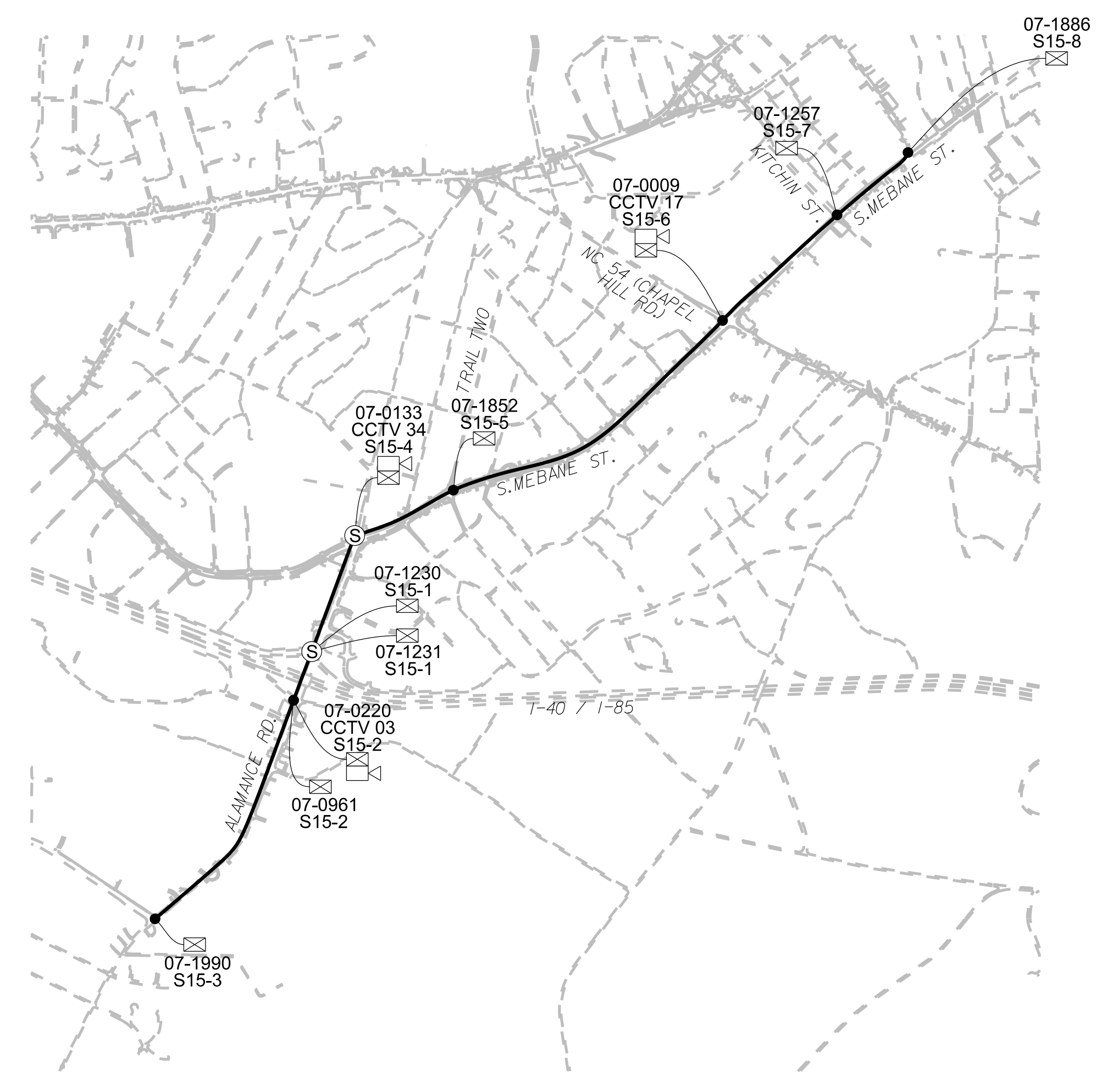
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

 750 Greenfield Parkway, Garner, NC 27529

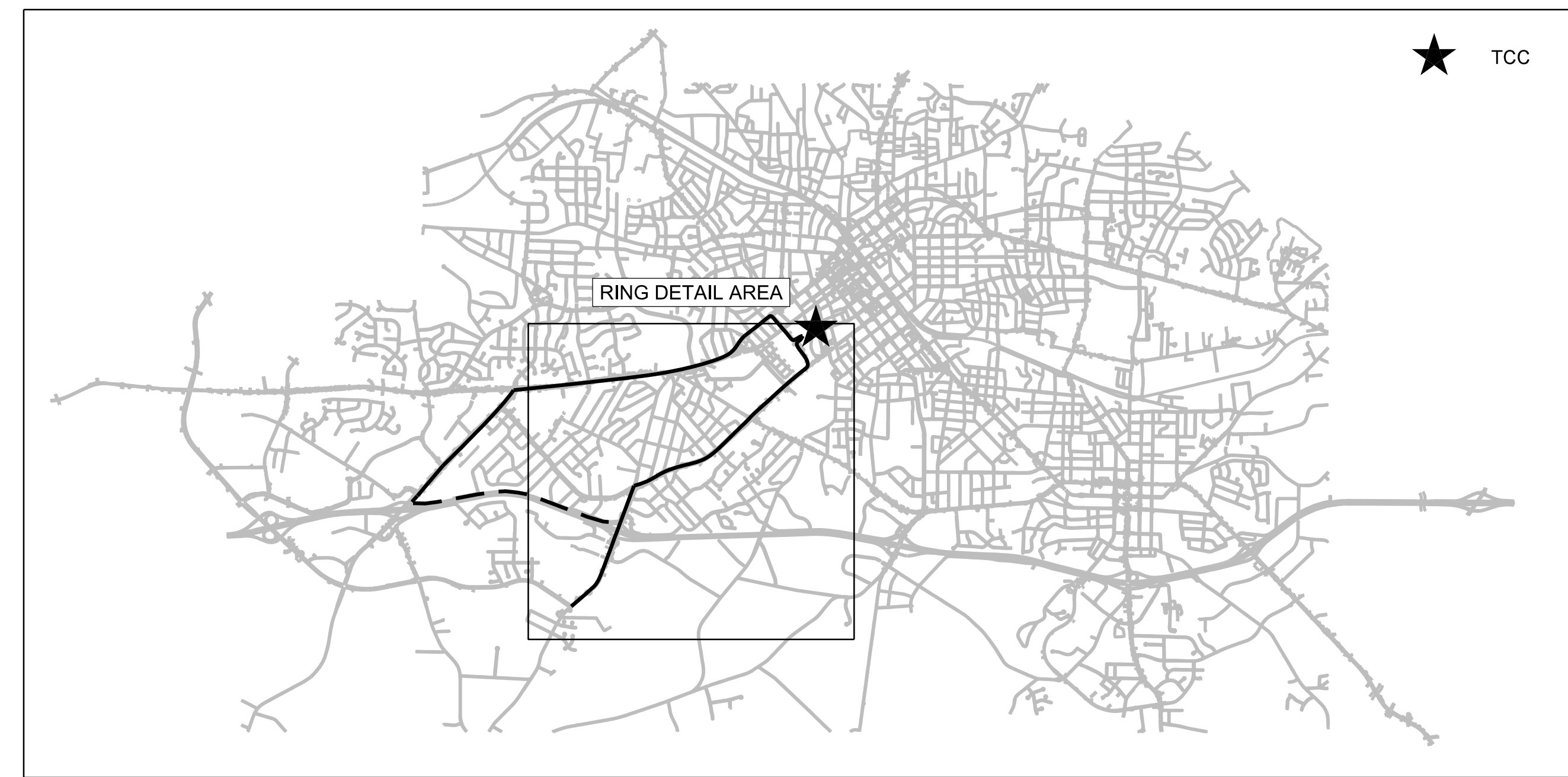
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 13)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 040877
 ENGINEER
 BRADFORD J. SLOCUM
 15/2018
 DATE
 CADD Filename: FS 2.17.dgn

RING 15 DETAIL



RING 15 OVERALL ROUTE



14 JUN 2018 10:13
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

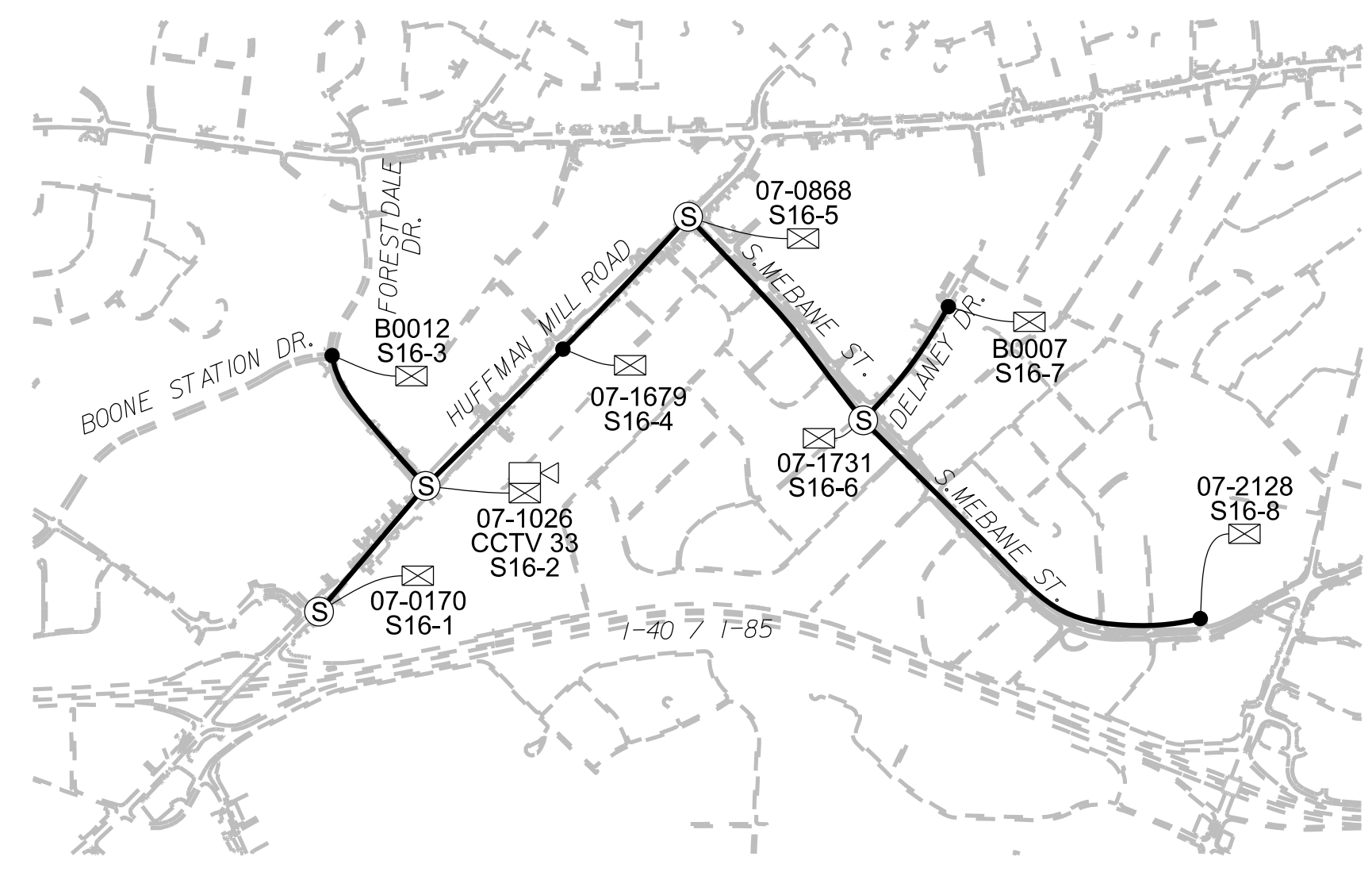
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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	Division 7 Alamance County	Burlington & Graham	

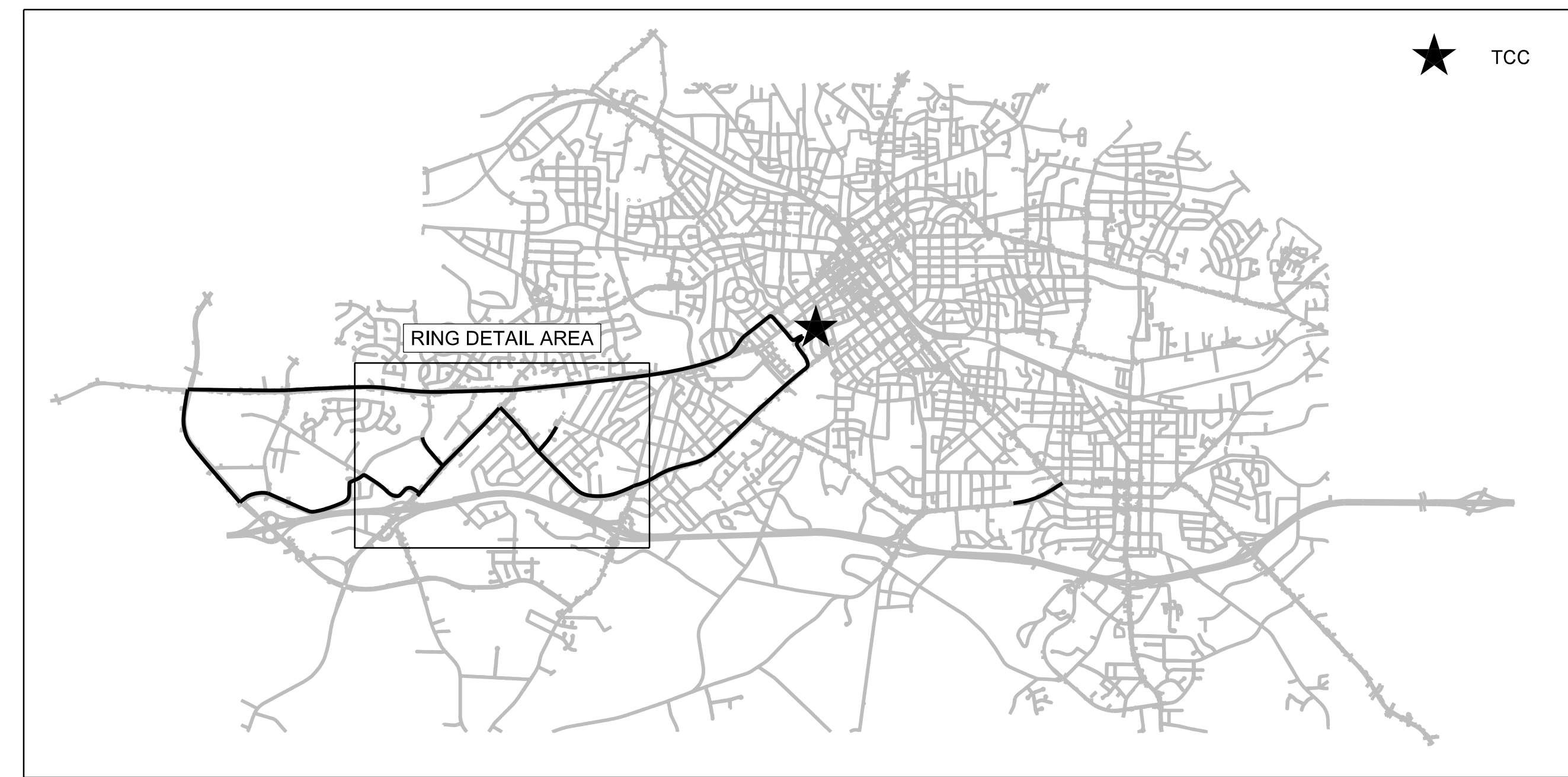
750 Greenfield Parkway, Garner, NC 27529

15/2018
DATE
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RING 16 DETAIL




RING 16 OVERALL ROUTE



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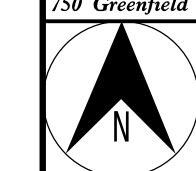
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

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Prepared for the Offices of:

 DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 750 Greenfield Parkway, Garner, NC 27529

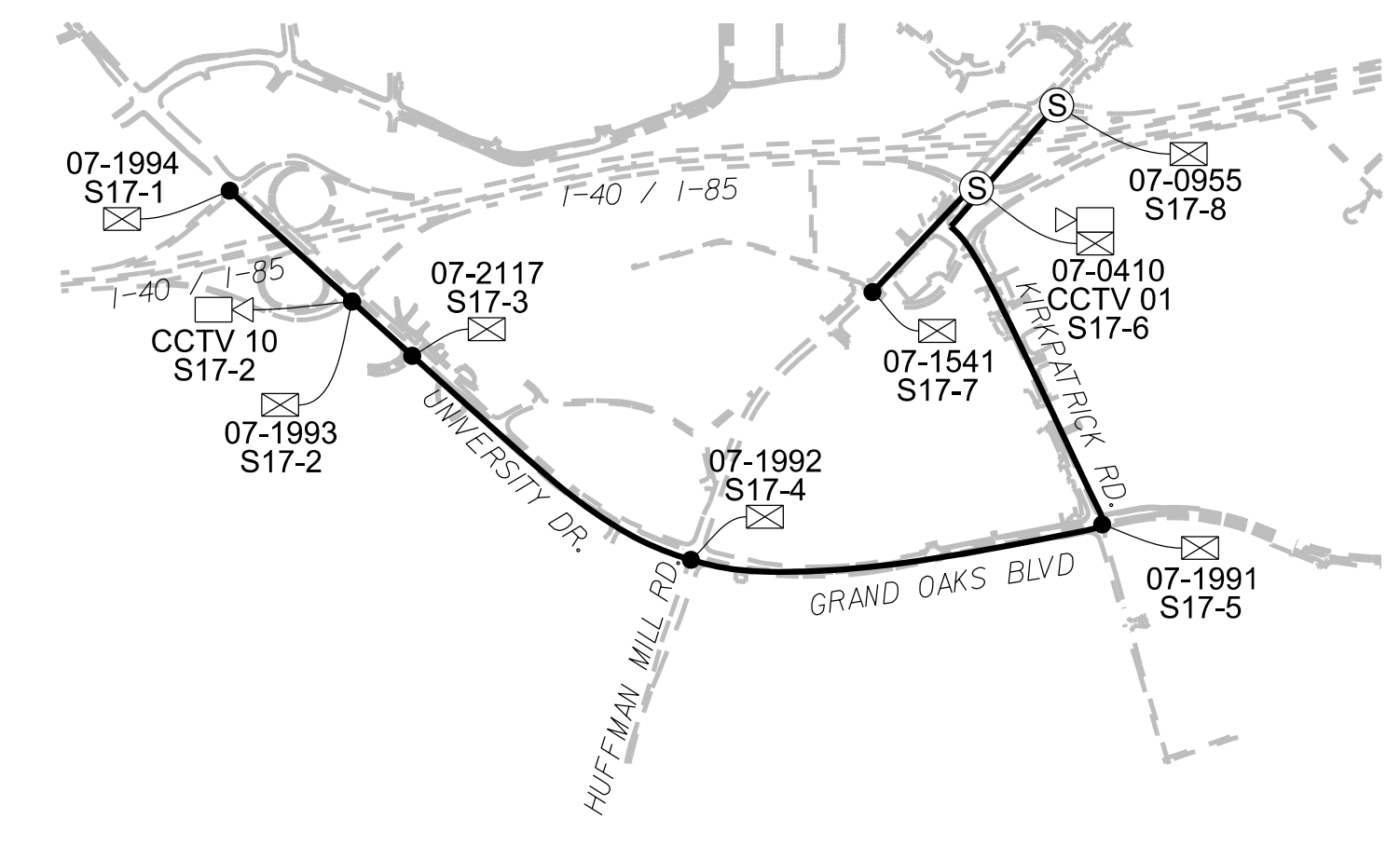
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 16)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 040877
 ENGINEER
 BRADFORD J. SLOCUM
 15/2018
 DATE
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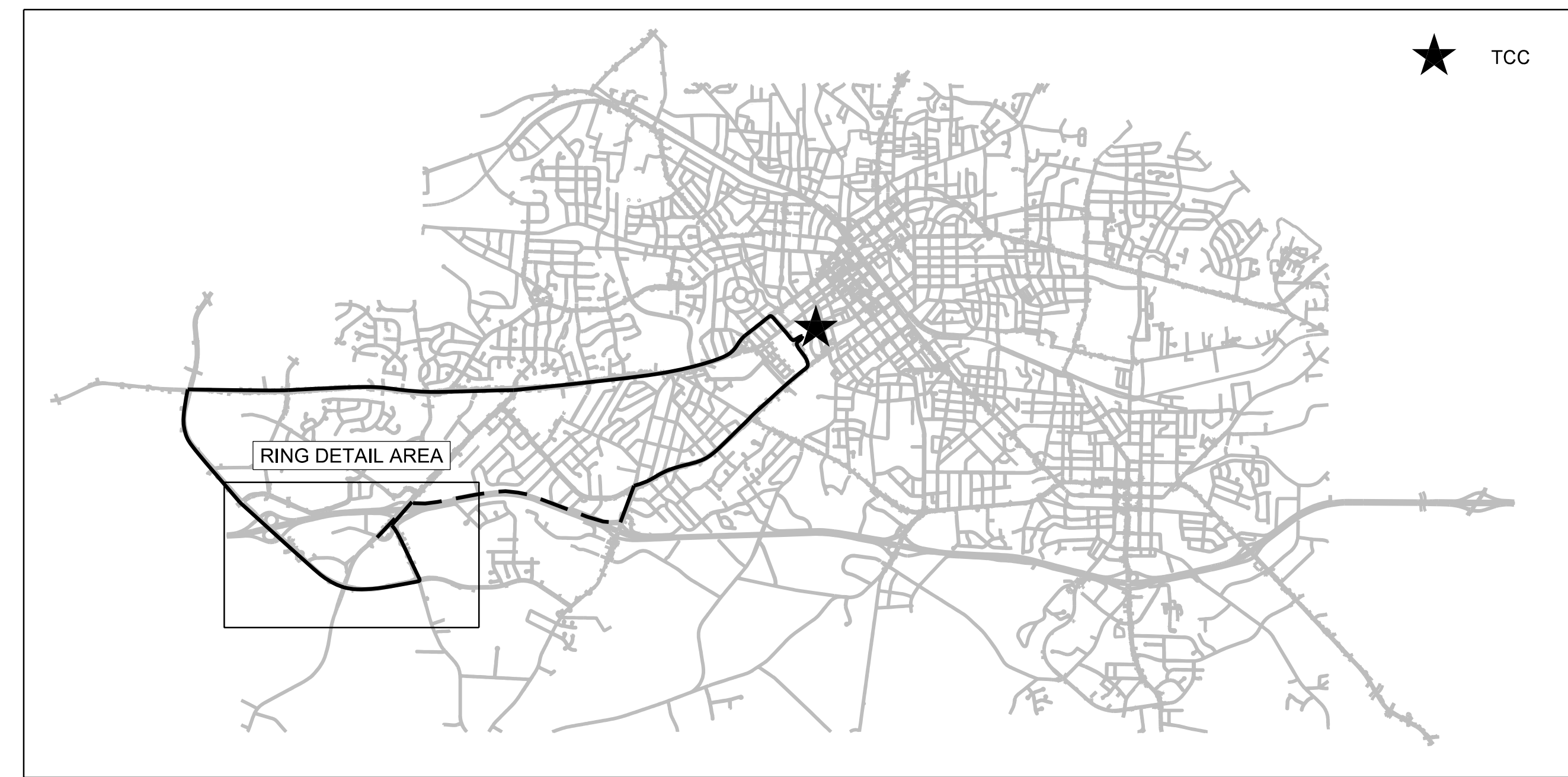


SCALE
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RING 17 DETAIL



RING 17 OVERALL ROUTE



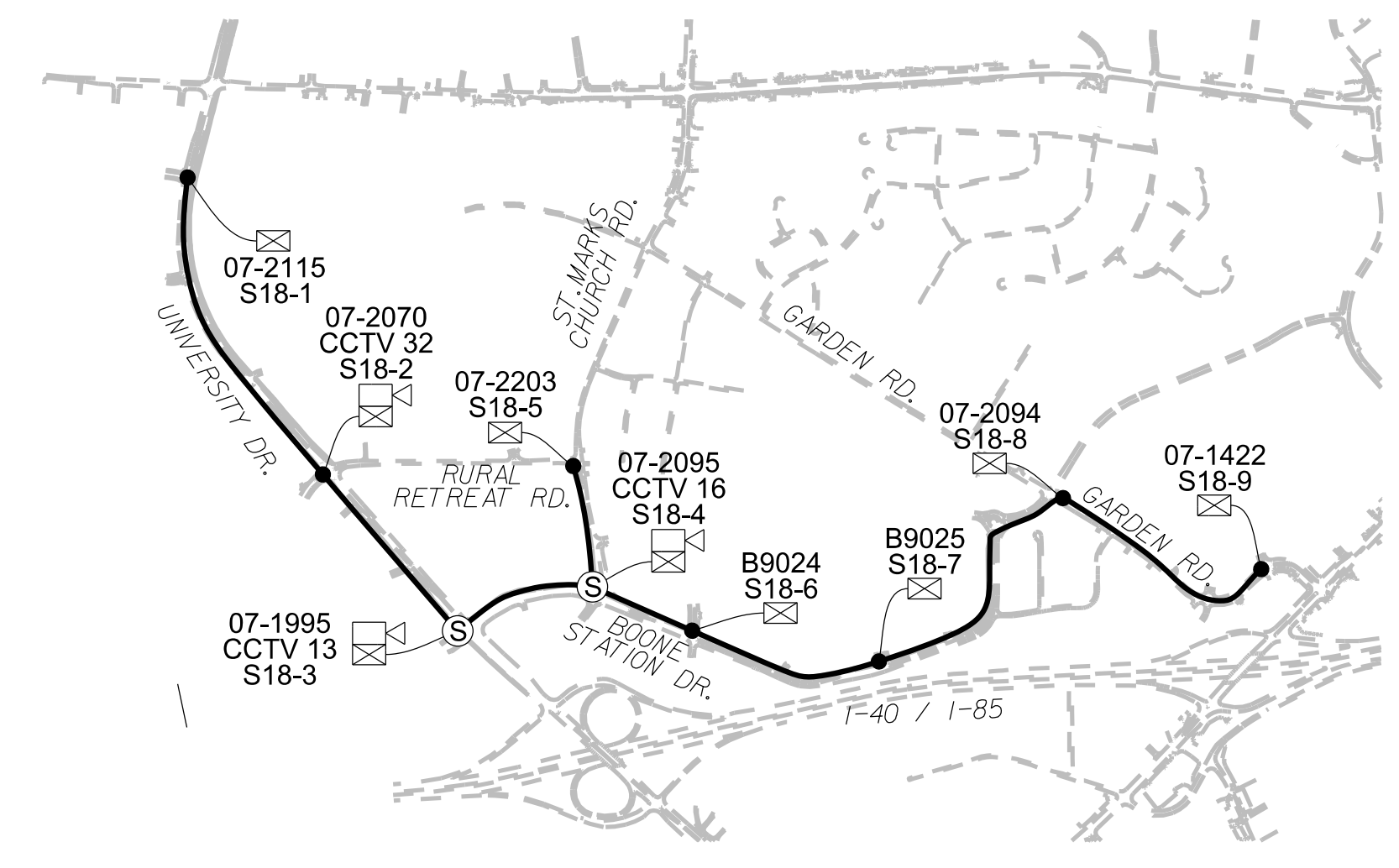
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 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBES #F-0326

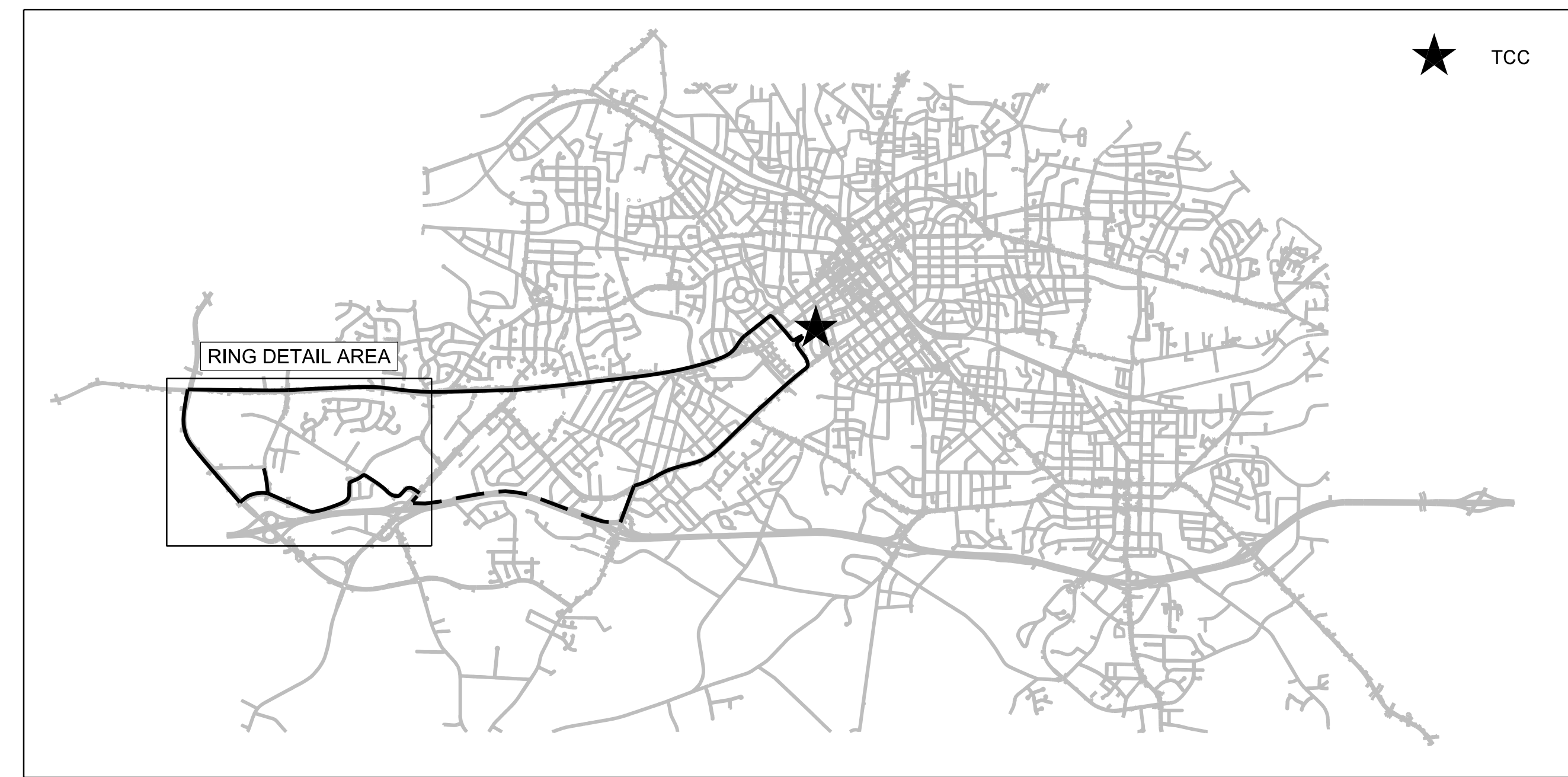
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

 Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 750 Greenfield Parkway, Garner, NC 27529	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 17)		
	Division 7 PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	Burlington & Graham Alamance County REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	

RING 18 DETAIL



RING 18 OVERALL ROUTE



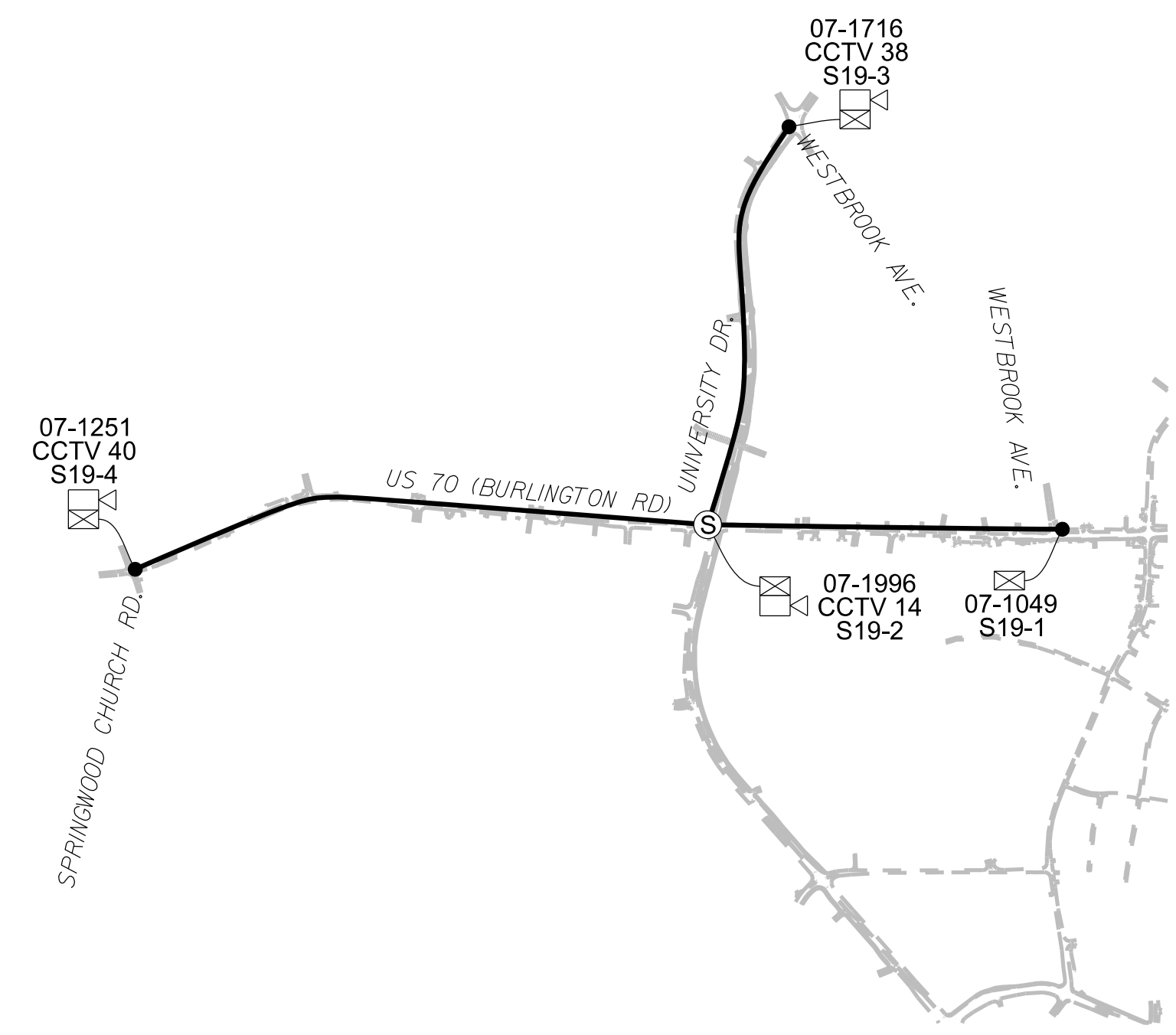
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

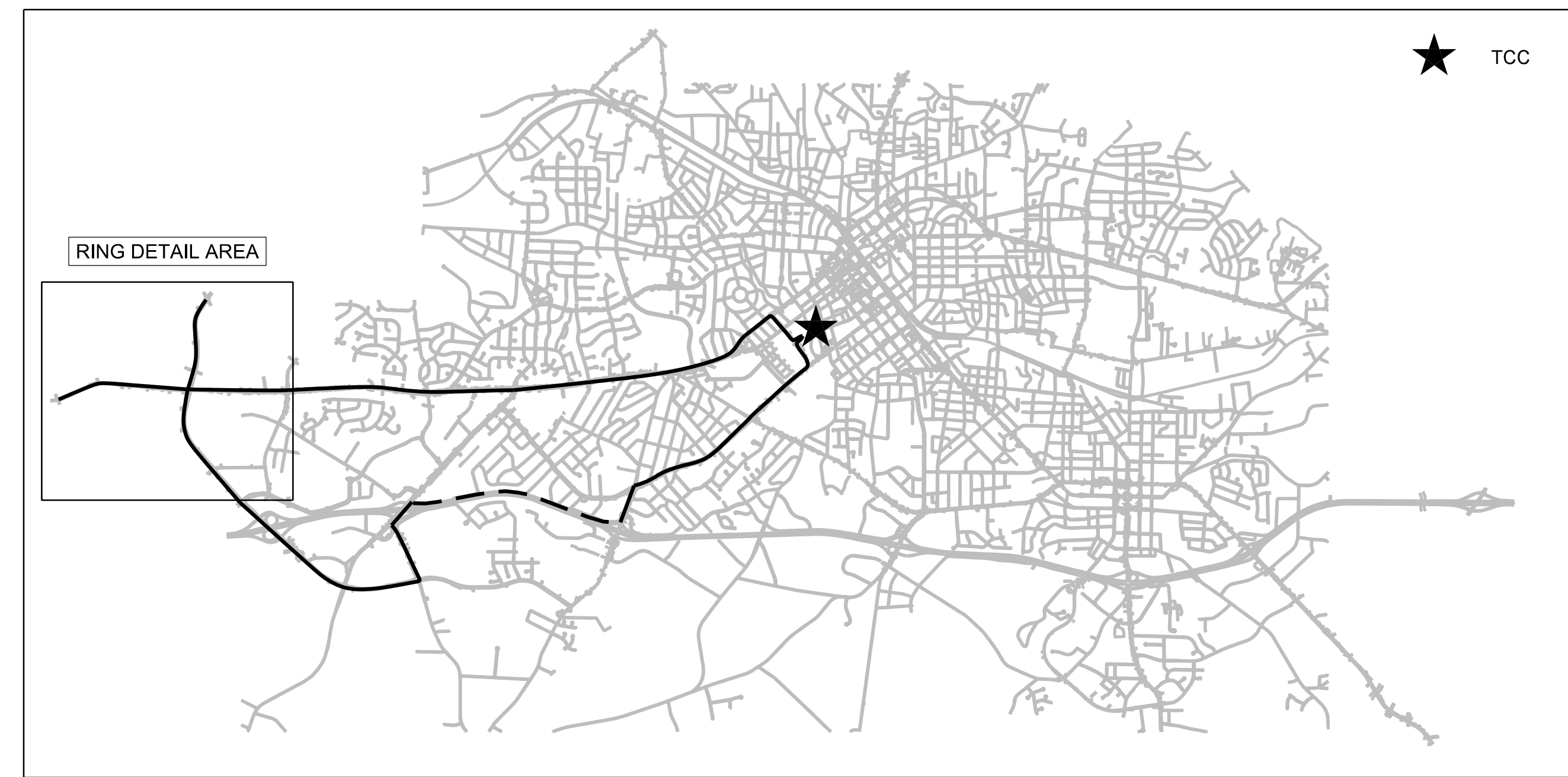
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 18)		
	Division 7 Alamance County	Burlington & Graham	
PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	REVISIONS INIT. DATE	SEAL NORTH CAROLINA PROFESSIONAL SEAL 040877 ENGINEER Bradford J. Slocum 15/2018
750 Greenfield Parkway, Garner, NC 27529 	SCALE N/A	DATE	DATE

RING 19 DETAIL



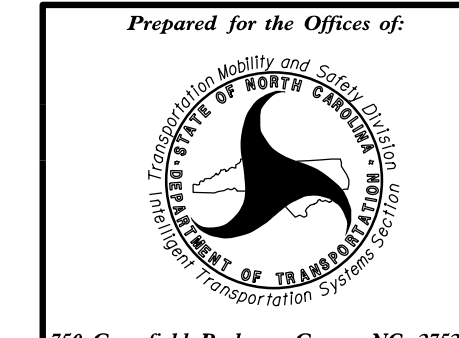
RING 19 OVERALL ROUTE



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SLOCUM AT LUS355433

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

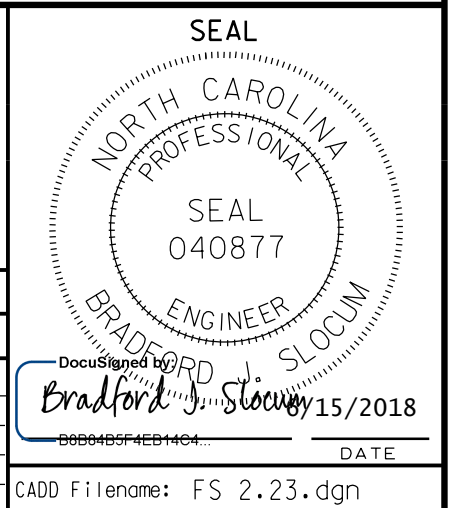
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



750 Greenfield Parkway, Garner, NC 27529
SCALE: N/A

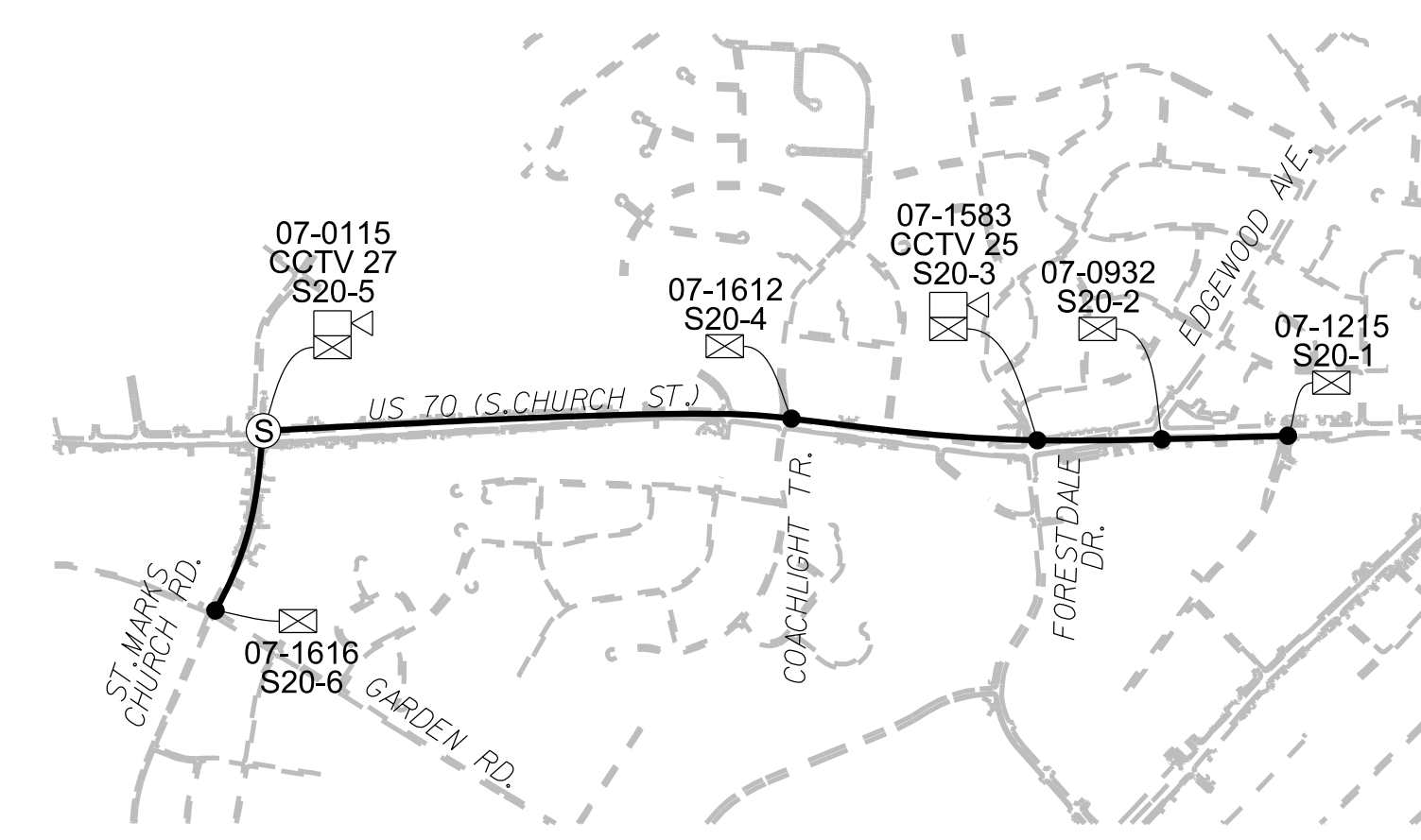
**Burlington-Graham Signal System
Fiber-Optic Ring Schematics
(Ring 19)**
Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: HA BADGETT
PREPARED BY: BJ SLOCUM REVIEWED BY: DL JONES

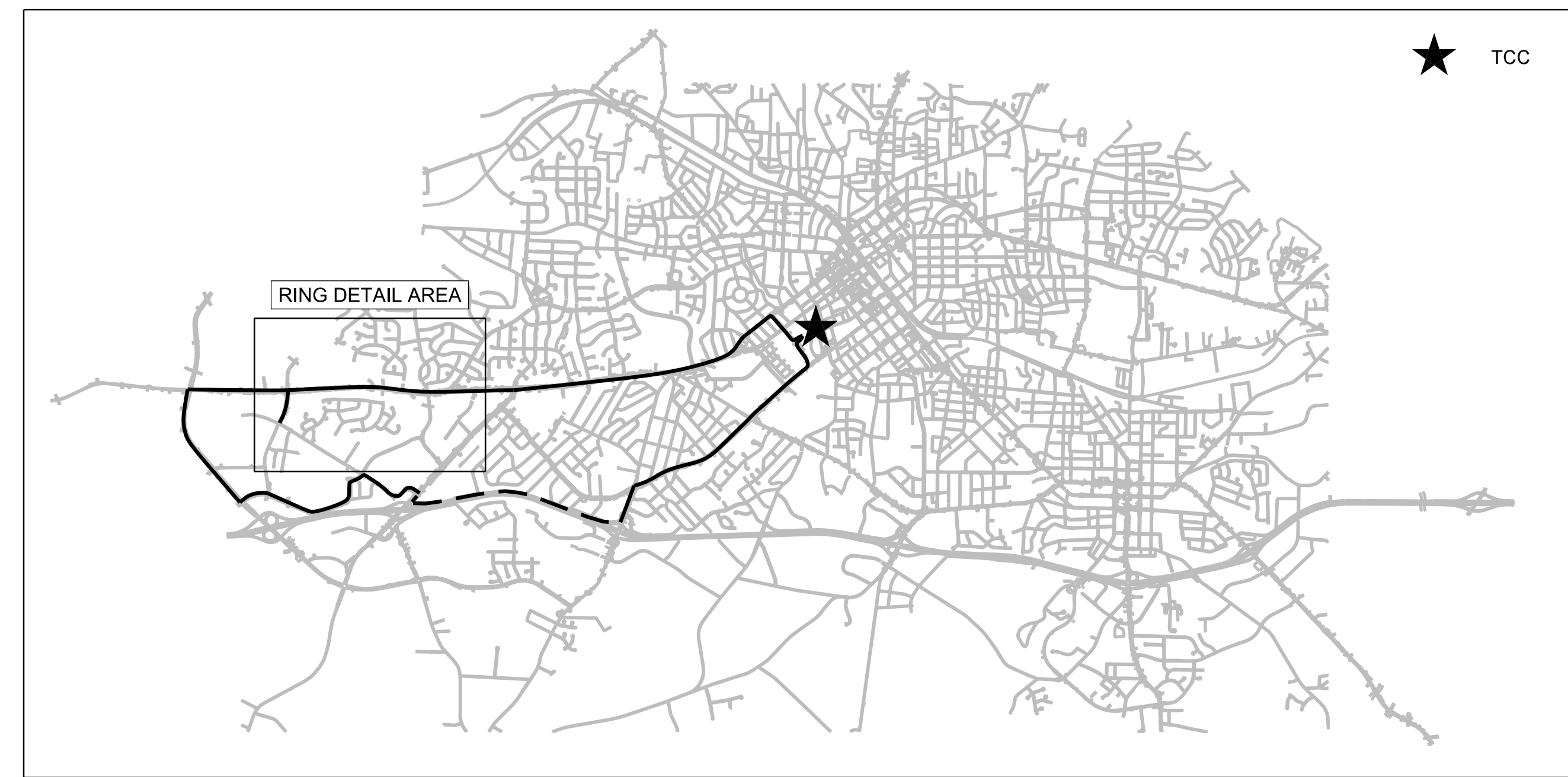


REVISIONS INIT. DATE
CADD File name: FS 2.23.dgn

RING 20 DETAIL



RING 20 OVERALL ROUTE



14 JUN 2018 10:17
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SLOCUM AT LUS355433

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

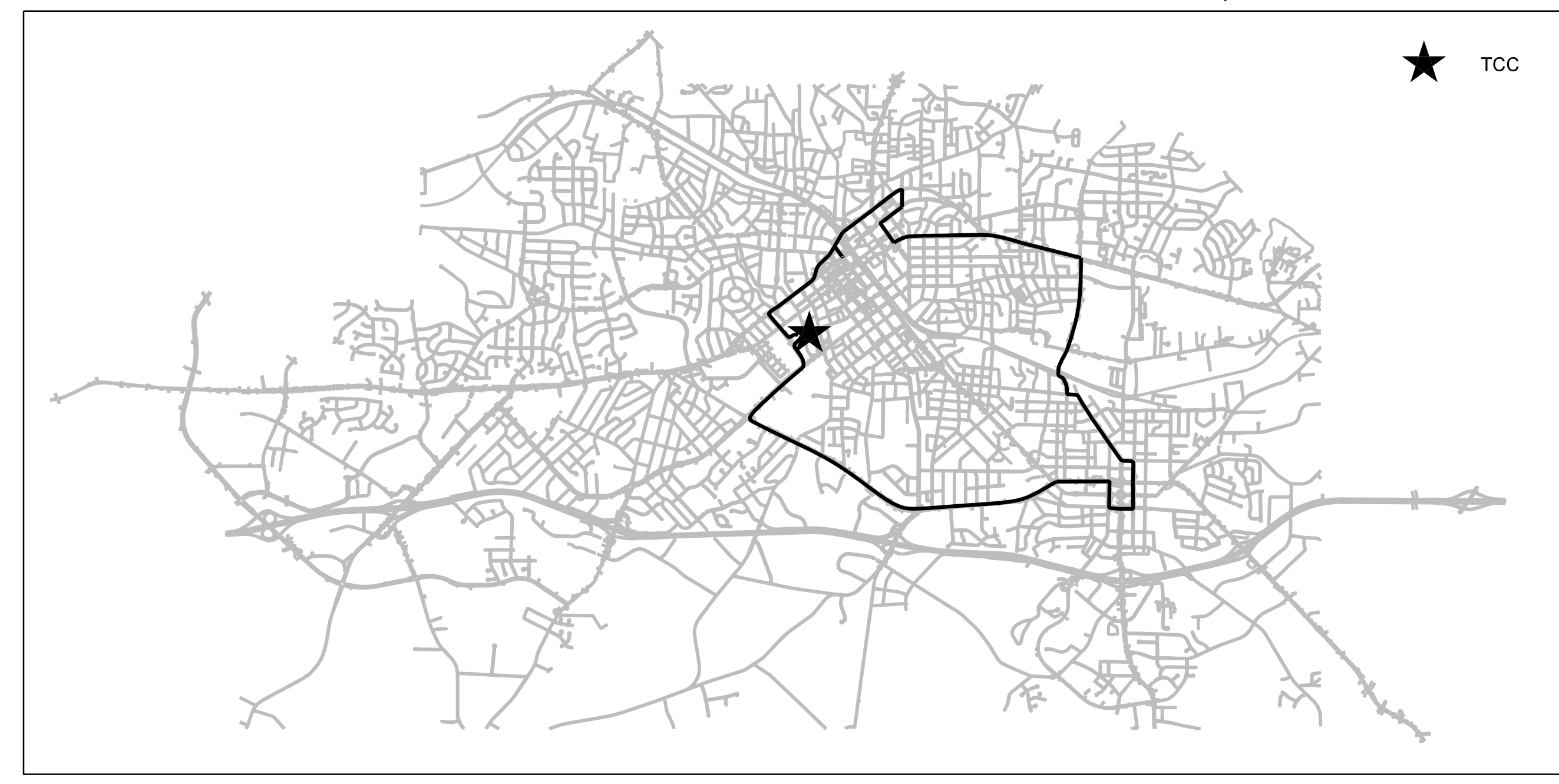
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 20)		
	Division 7 Alamance County	Burlington & Graham	
PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	REVISIONS INIT. DATE	SEAL NORTH CAROLINA PROFESSIONAL SEAL 040877 ENGINEER BRADFORD J. SLOCUM 15/2018 DATE

VIDEO SHARING RINGS

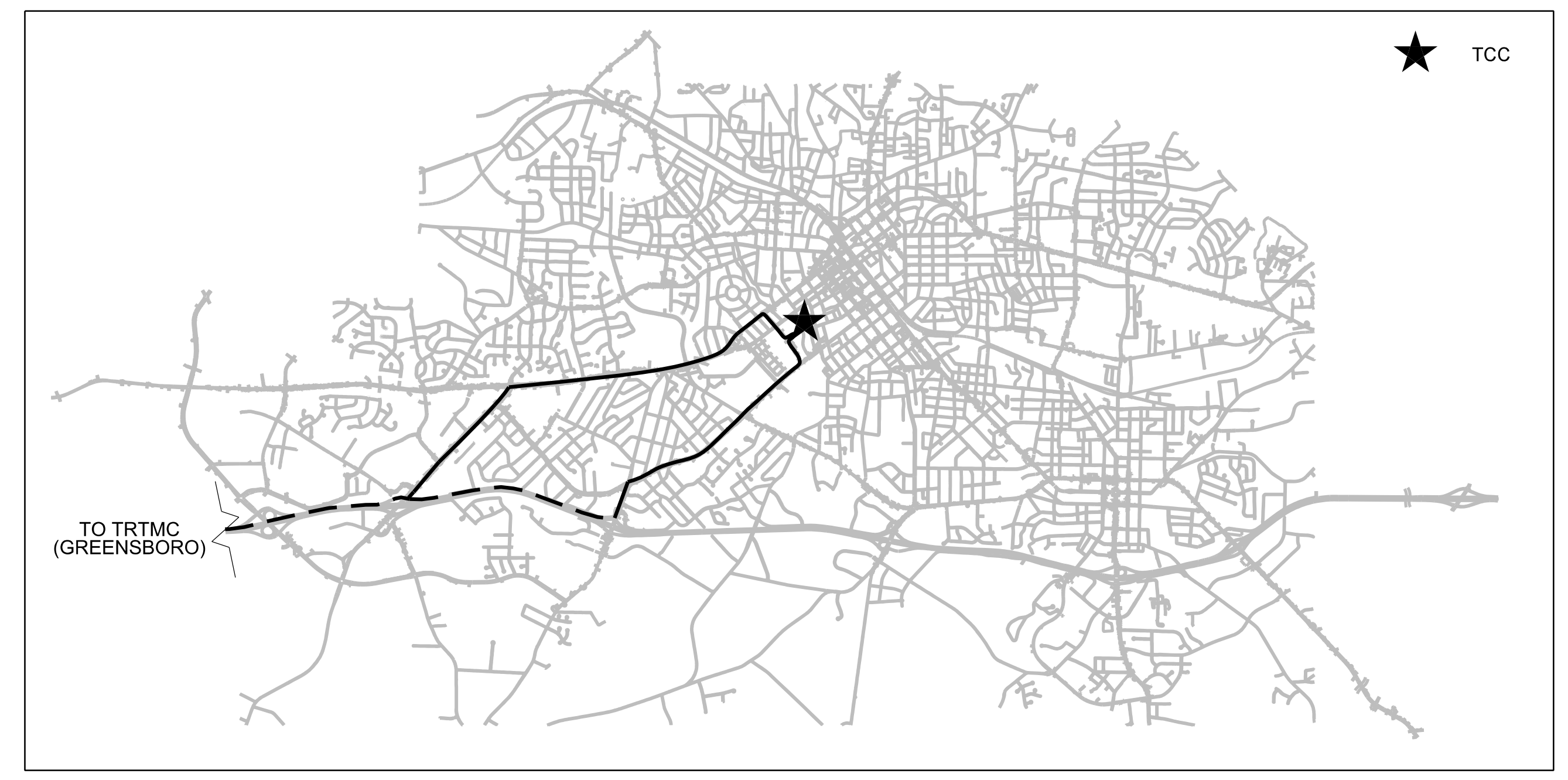
RING 21 OVERALL ROUTE

(SEE SPLICE S10-3 FOR CONNECTION TO POLICE DEPARTMENT.
SEE SPLICE S3-2 FOR CONNECTION TO COUNTY 911 CENTER)



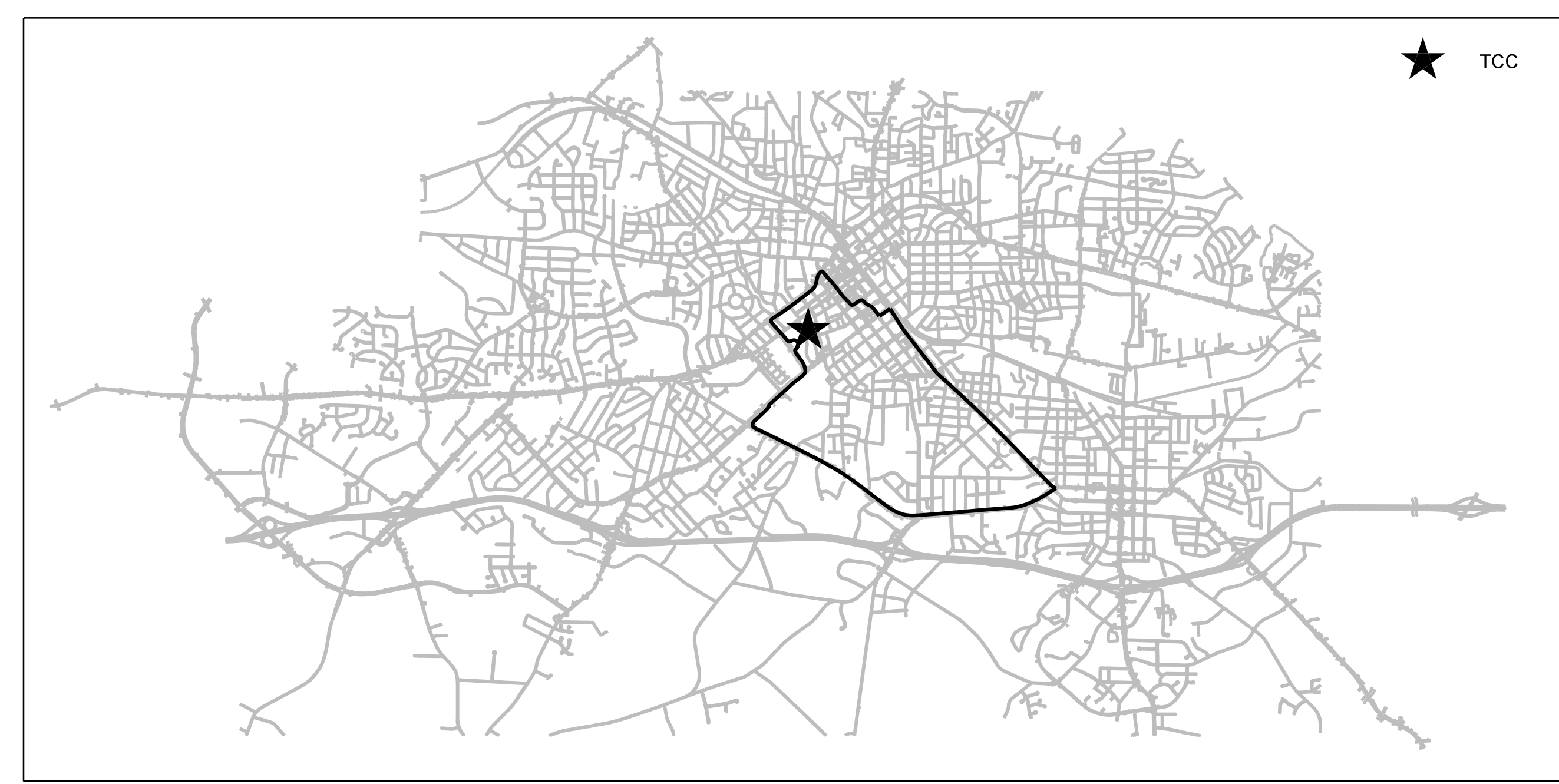
RING 22 OVERALL ROUTE

(SEE SPLICE S17-8 FOR CONNECTION TO HUFFMAN MILL NCDOT HUB CABINET)



RING 23 OVERALL ROUTE


(SEE SPLICE S9-1 FOR CONNECTION TO BURLINGTON CITY HALL)



14 JUN 2018 10:17
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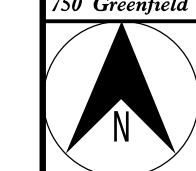
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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(919) 876-6888 NCBEEES #F-0326

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Prepared for the Offices of:

 DEPARTMENT OF TRANSPORTATION
 750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Fiber-Optic Ring Schematics (Rings 21, 22, 23) Burlington & Graham	
Division 7	Alamance County
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES
REVISIONS	INIT. DATE

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 SEAL
 040877
 ENGINEER
 BRADFORD J. SLOCUM
 15/2018
 DATE
 CADD File name: FS 2.25.dgn



SCALE
N/A

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TUBE	STRAND PAIR																																				TUBE	STRAND PAIR		
BLUE	1, 2	R1	R1	R1		R1	R1			R1	R1		R4	R4		R4			R5	R5		R5	R5		R1	R6	R21		R7		R1	R8	R1	R8	R1	R9	BLUE	1, 2		
	3, 4		R1+			R1+	R1+		R2				R3	R3		R3	R3		R5+	R5+		R5+	R5+		R2	R6+			R7+		R2	R8+	R2	R8+	R2	R9+		3, 4		
	5, 6										R3	R3	R3			R3	R3							R3															5, 6	
	7, 8										R4	R4	R4			R4	R4	R4						R4																7, 8
	9, 10										R5	R5	R5			R5	R5	R5						R5																9, 10
	11, 12																																							11, 12
ORANGE	1, 2									R21	R21	R21			R21		R21	R21						R21														ORANGE	1, 2	
	3, 4																								R8	R8						R8		R8		R8			3, 4	
	5, 6																								R9	R9						R9		R9		R9			5, 6	
	7, 8										R10	R10	R10			R10		R10	R10					R10															7, 8	
	9, 10										R11	R11	R11			R11		R11	R11					R11																9, 10
	11, 12																									R23	R23					R23		R23		R23				11, 12
GREEN	1, 2									R12	R12	R12			R12		R12	R12						R12														GREEN	1, 2	
	3, 4																																							3, 4
	5, 6										R13	R13	R13			R13		R13	R13					R13															5, 6	
	7, 8																																							7, 8
	9, 10																																							9, 10
	11, 12																																							11, 12
BROWN	1, 2				R1			R1																														BROWN	1, 2	
	3, 4				R1+				R2																														3, 4	
	5, 6																																							5, 6
	7, 8																																							7, 8
	9, 10																																							9, 10
	11, 12																																							11, 12

CABLE NUMBER	9C	10A	10B	10C	11A	11B	11C	11D	11E	11F	12A	12B	12C	12D	13A	13B	13C	14A	15A	15B	15C	16A	16B	16C	16D	16E	16F	16G	17A	17B	17C	17D	18A	18B	18C	18D	CABLE NUMBER			
CABLE SIZE	36	36	12	36	36	12	36	12	36	12	24	24	24	12	12	12	12	36	48	24	48	24	12	24	24	12	24	24	24	12	24	24	24	12	24	24	CABLE SIZE			
NEW/EXISTING	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW/EXISTING			
TUBE	STRAND PAIR																																				TUBE	STRAND PAIR		
BLUE	1, 2	R1		R10			R11		R11		R11	R12	R12	R12	R12	R13	R13	R13		R1	R15	R1		R16													BLUE	1, 2		
	3, 4	R2		R10+			R11+		R11+		R11+	R12+	R12+	R12+	R12+	R13+	R13+	R13+		R2	R15+	R2		R16+														3, 4		
	5, 6		R3	R21	R3	R3		R3		R3								R14						R14															5, 6	
	7, 8		R4	R21+	R4	R4		R4		R4								R15	R15					R15															7, 8	
	9, 10		R5		R5	R5		R5		R5								R16						R16	R16														9, 10	
	11, 12	R6																		R6																			11, 12	
ORANGE	1, 2		R21		R21	R21			R21									R7	R7									R7	R7	R7							ORANGE	1, 2		
	3, 4	R8																R17	R17									R17		R17		R17		R17				3, 4		
	5, 6	R9																	R18	R18									R18		R18		R18		R18			5, 6		
	7, 8		R10		R10	R10			R10										R19	R19									R19		R19		R19		R19			7, 8		
	9, 10		R11		R11	R11			R11										R20	R20										R20		R20		R20		R20			9, 10	
	11, 12	R23																	R22	R22										R22		R22		R22					11, 12	
GREEN	1, 2																																				GREEN	1, 2		
	3, 4																																						3, 4	
	5, 6																																						5, 6	
	7, 8																																							7, 8
	9, 10																																							9, 10
	11, 12																																							11, 12
BROWN	1, 2																																					BROWN	1, 2	
	3, 4																																						3, 4	
	5, 6																																						5, 6	
	7, 8																																						7, 8	
	9, 10																																							9, 10
	11, 12																																							11, 12

CABLE NUMBER	19A	19B	19C	20A	20B	22A	22B	
CABLE SIZE	36	24	36	36	12	144	144	
NEW/EXISTING	NEW	NEW	NEW	NEW	NEW	EX.	EX.	
TUBE	STRAND PAIR							
BLUE	1, 2		R19	R19		R20		
	3, 4		R19+	R19+		R20+		
	5, 6							
	7, 8							
	9, 10	R16			R16			
	11, 12							
ORANGE	1, 2							
	3, 4	R17			R17			
	5, 6	R18			R18			
	7, 8	R19			R19			
	9, 10	R20			R20			
	11, 12							
GREEN	1, 2							
	3, 4							
	5, 6							
	7, 8							
	9, 10							
	11, 12							
BROWN	1, 2					R15		
	3, 4					R17		
	5, 6					R18		
	7, 8					R19		

Table with 5 columns: Splice Number, Signal Inventory / CCTV ID, Fiber Splicing Detail Sheet, Cable Schematic, Cable Routing Plan Sheet No.

Table with 5 columns: Splice Number, Signal Inventory / CCTV ID, Fiber Splicing Detail Sheet, Cable Schematic, Cable Routing Plan Sheet No.

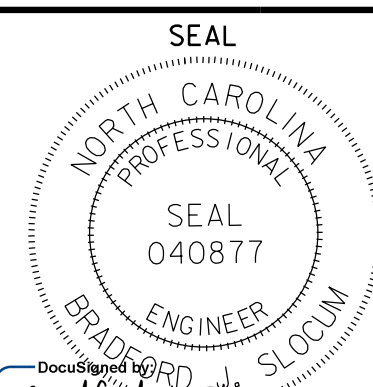
Table with 5 columns: Splice Number, Signal Inventory / CCTV ID, Fiber Splicing Detail Sheet, Cable Schematic, Cable Routing Plan Sheet No.

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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBEES #F-0326

Project information box including title 'Burlington-Graham Signal System Fiber-Optic Splicing Details', key sheet details, revision table, and professional seals.

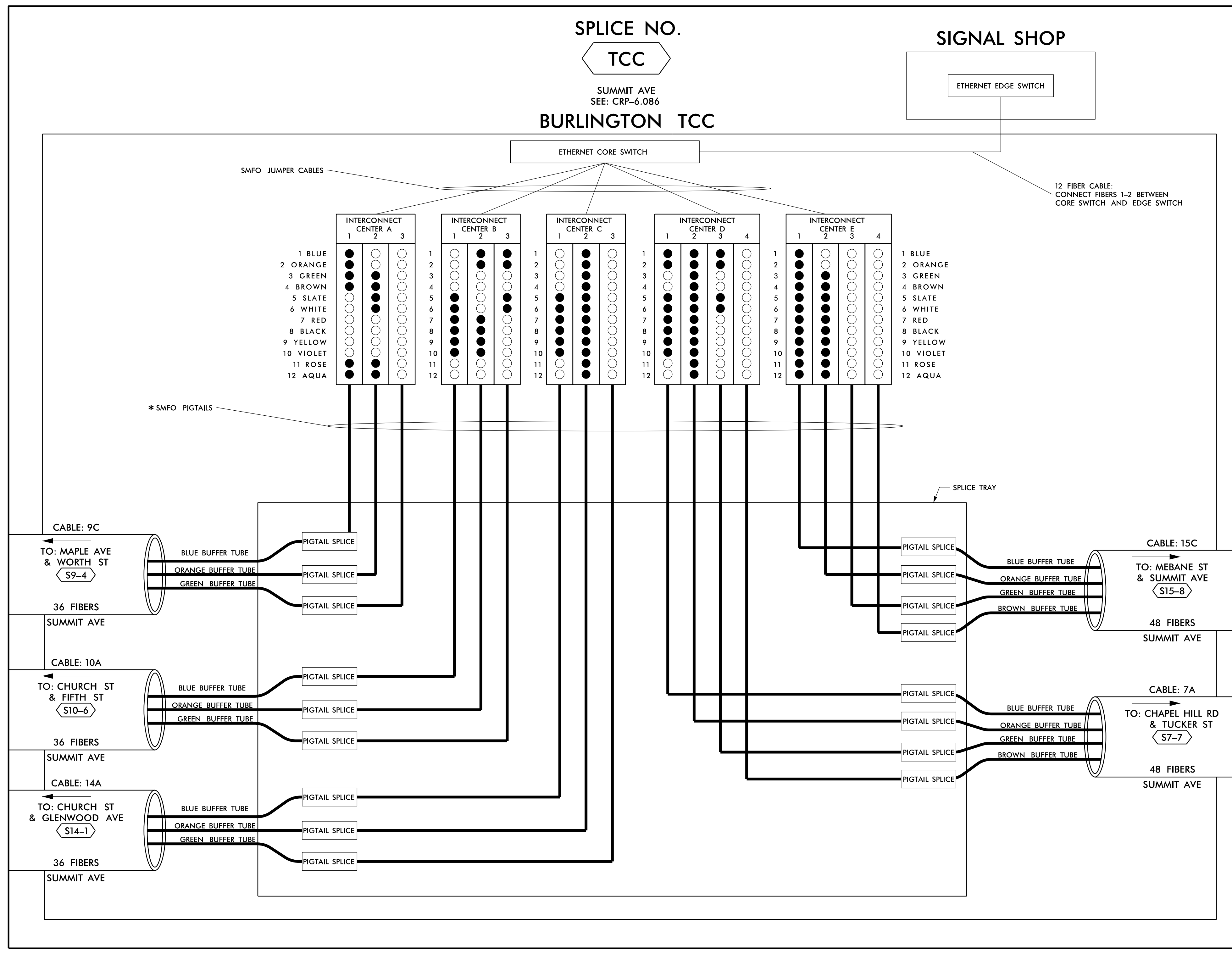
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BRADFORD J. SLOCUM, ENGINEER, 15/2018, DATE

CADD File name: FS 4.000.dgn

BURLINGTON PUBLIC WORKS BUILDING



INTERCONNECT CENTER A (CABLE 9C)

SLOT 1 (BLUE BUFFER TUBE)	
1 BLUE	RING 1 RX
2 ORANGE	RING 1 TX
3 GREEN	RING 2 RX
4 BROWN	RING 2 TX
5 SLATE	DARK
6 WHITE	DARK
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	RING 6 RX
12 AQUA	RING 6 TX

INTERCONNECT CENTER B (CABLE 10A)

SLOT 1 (BLUE BUFFER TUBE)	
1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	RING 3 RX
6 WHITE	RING 3 TX
7 RED	RING 4 RX
8 BLACK	RING 4 TX
9 YELLOW	RING 5 RX
10 VIOLET	RING 5 TX
11 ROSE	DARK
12 AQUA	DARK

INTERCONNECT CENTER C (CABLE 14A)

SLOT 1 (BLUE BUFFER TUBE)	
1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	RING 14 TX
6 WHITE	RING 14 RX
7 RED	RING 15 TX
8 BLACK	RING 15 RX
9 YELLOW	RING 16 TX
10 VIOLET	RING 16 RX
11 ROSE	DARK
12 AQUA	DARK

SLOT 2 (ORANGE BUFFER TUBE)

1 BLUE	DARK
2 ORANGE	RING 8 RX
3 GREEN	RING 8 TX
4 BROWN	RING 9 RX
5 SLATE	RING 9 TX
6 WHITE	RING 9 TX
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	RING 23 RX
12 AQUA	RING 23 TX

SLOT 2 (ORANGE BUFFER TUBE)

1 BLUE	RING 21 RX
2 ORANGE	RING 21 TX
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	DARK
6 WHITE	DARK
7 RED	RING 10 RX
8 BLACK	RING 10 TX
9 YELLOW	RING 11 RX
10 VIOLET	RING 11 TX
11 ROSE	DARK
12 AQUA	DARK

SLOT 2 (ORANGE BUFFER TUBE)

1 BLUE	RING 7 TX
2 ORANGE	RING 7 RX
3 GREEN	RING 17 TX
4 BROWN	RING 17 RX
5 SLATE	RING 18 TX
6 WHITE	RING 18 RX
7 RED	RING 19 TX
8 BLACK	RING 19 RX
9 YELLOW	RING 20 TX
10 VIOLET	RING 20 RX
11 ROSE	RING 22 TX
12 AQUA	RING 22 RX

SLOT 3 (GREEN BUFFER TUBE)

1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	DARK
6 WHITE	DARK
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	DARK
12 AQUA	DARK

SLOT 3 (GREEN BUFFER TUBE)

1 BLUE	RING 12 RX
2 ORANGE	RING 12 TX
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	RING 13 RX
6 WHITE	RING 13 TX
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	DARK
12 AQUA	DARK

SLOT 3 (GREEN BUFFER TUBE)

1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	DARK
6 WHITE	DARK
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	DARK
12 AQUA	DARK

INTERCONNECT CENTER D (CABLE 7A)

SLOT 1 (BLUE BUFFER TUBE)	
1 BLUE	RING 21 TX
2 ORANGE	RING 21 RX
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	RING 3 TX
6 WHITE	RING 3 RX
7 RED	RING 4 TX
8 BLACK	RING 4 RX
9 YELLOW	RING 5 TX
10 VIOLET	RING 5 RX
11 ROSE	DARK
12 AQUA	DARK

INTERCONNECT CENTER E (CABLE 15C)

SLOT 1 (BLUE BUFFER TUBE)	
1 BLUE	RING 1 TX
2 ORANGE	RING 1 RX
3 GREEN	RING 2 TX
4 BROWN	RING 2 RX
5 SLATE	RING 14 RX
6 WHITE	RING 14 TX
7 RED	RING 15 RX
8 BLACK	RING 15 TX
9 YELLOW	RING 16 RX
10 VIOLET	RING 16 TX
11 ROSE	RING 6 TX
12 AQUA	RING 6 RX

SLOT 2 (ORANGE BUFFER TUBE)

1 BLUE	RING 7 RX
2 ORANGE	RING 7 TX
3 GREEN	RING 8 TX
4 BROWN	RING 8 RX
5 SLATE	RING 9 TX
6 WHITE	RING 9 RX
7 RED	RING 10 TX
8 BLACK	RING 10 RX
9 YELLOW	RING 11 TX
10 VIOLET	RING 11 RX
11 ROSE	RING 23 TX
12 AQUA	RING 23 RX

SLOT 2 (ORANGE BUFFER TUBE)

1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	RING 17 RX
4 BROWN	RING 17 TX
5 SLATE	RING 18 RX
6 WHITE	RING 18 TX
7 RED	RING 19 RX
8 BLACK	RING 19 TX
9 YELLOW	RING 20 RX
10 VIOLET	RING 20 TX
11 ROSE	RING 22 RX
12 AQUA	RING 22 TX

SLOT 3 (GREEN BUFFER TUBE)

1 BLUE	RING 12 TX
2 ORANGE	RING 12 RX
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	RING 13 TX
6 WHITE	RING 13 RX
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	DARK
12 AQUA	DARK

SLOT 3 (GREEN BUFFER TUBE)

1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	DARK
6 WHITE	DARK
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	DARK
12 AQUA	DARK

SLOT 4 (BROWN BUFFER TUBE)

1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	DARK
6 WHITE	DARK
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	DARK
12 AQUA	DARK

SLOT 4 (BROWN BUFFER TUBE)

1 BLUE	DARK
2 ORANGE	DARK
3 GREEN	DARK
4 BROWN	DARK
5 SLATE	DARK
6 WHITE	DARK
7 RED	DARK
8 BLACK	DARK
9 YELLOW	DARK
10 VIOLET	DARK
11 ROSE	DARK
12 AQUA	DARK

LEGEND


COLOR CODE TIA/EIA 598-B	
(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
(6) WHITE	(12) AQUA
EXPRESS	EXPRESS ENTIRE BUFFER TUBE /FIBERS THROUGH WITHOUT CUTTING
BUFFER SPlice	SPlice ALL FIBERS IN BUFFER TUBE COLOR TO COLOR
EXISTING	EXISTING BUFFER TUBE /FIBERS DO NOT MODIFY EXISTING SPICES OR EXPRESSED FIBERS.

NOTES

- UNUSED FIBERS LEFT COILED AND STORED IN SPlice TRAY
- UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPlice ENCLOSURE
- EDGE SWITCH CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

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Prepared for the Offices of:

 750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System
Fiber-Optic Splicing Details

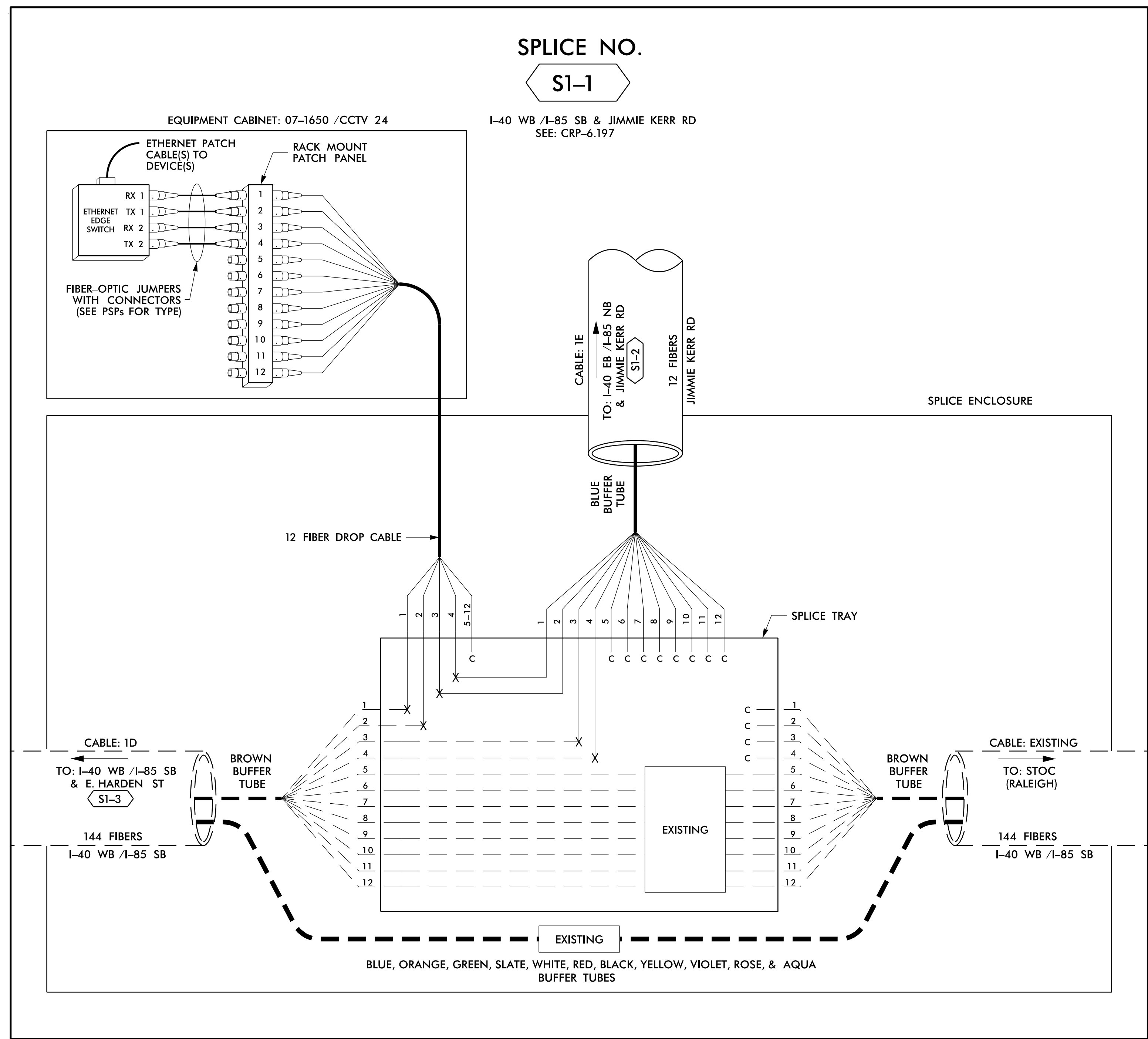
Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: HA BADGETT
 PREPARED BY: BJ SLOCUM REVIEWED BY: DL JONES

REVISIONS	INIT.	DATE

SCALE: N/A

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 040877
 BRADFORD J. SLOCUM
 ENGINEER
 BRADFORD J. SLOCUM 15/2018
 DATE
 CADD Filename: FS 4.001.dgn



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COLOR CODE		LEGEND	
(1) BLUE	(7) RED	EXPRESS	EXPRESS ENTIRE BUFFER TUBE /FIBERS THROUGH WITHOUT CUTTING
(2) ORANGE	(8) BLACK	BUFFER SPlice	SPlice ALL FIBERS IN BUFFER TUBE COLOR TO COLOR
(3) GREEN	(9) YELLOW	EXISTING	EXISTING BUFFER TUBE /FIBERS DO NOT MODIFY EXISTING SPICES OR EXPRESSED FIBERS.
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

- NOTES**
- UNUSED FIBERS LEFT COILED AND STORED IN SPICE TRAY
 - UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPICE ENCLOSURE
 - EDGE SWITCH CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.

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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEs #F-0326

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Burlington-Graham Signal System
Fiber-Optic Splicing Details

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: HA BADGETT

PREPARED BY: BJ SLOCUM REVIEWED BY: DL JONES

SCALE: N/A

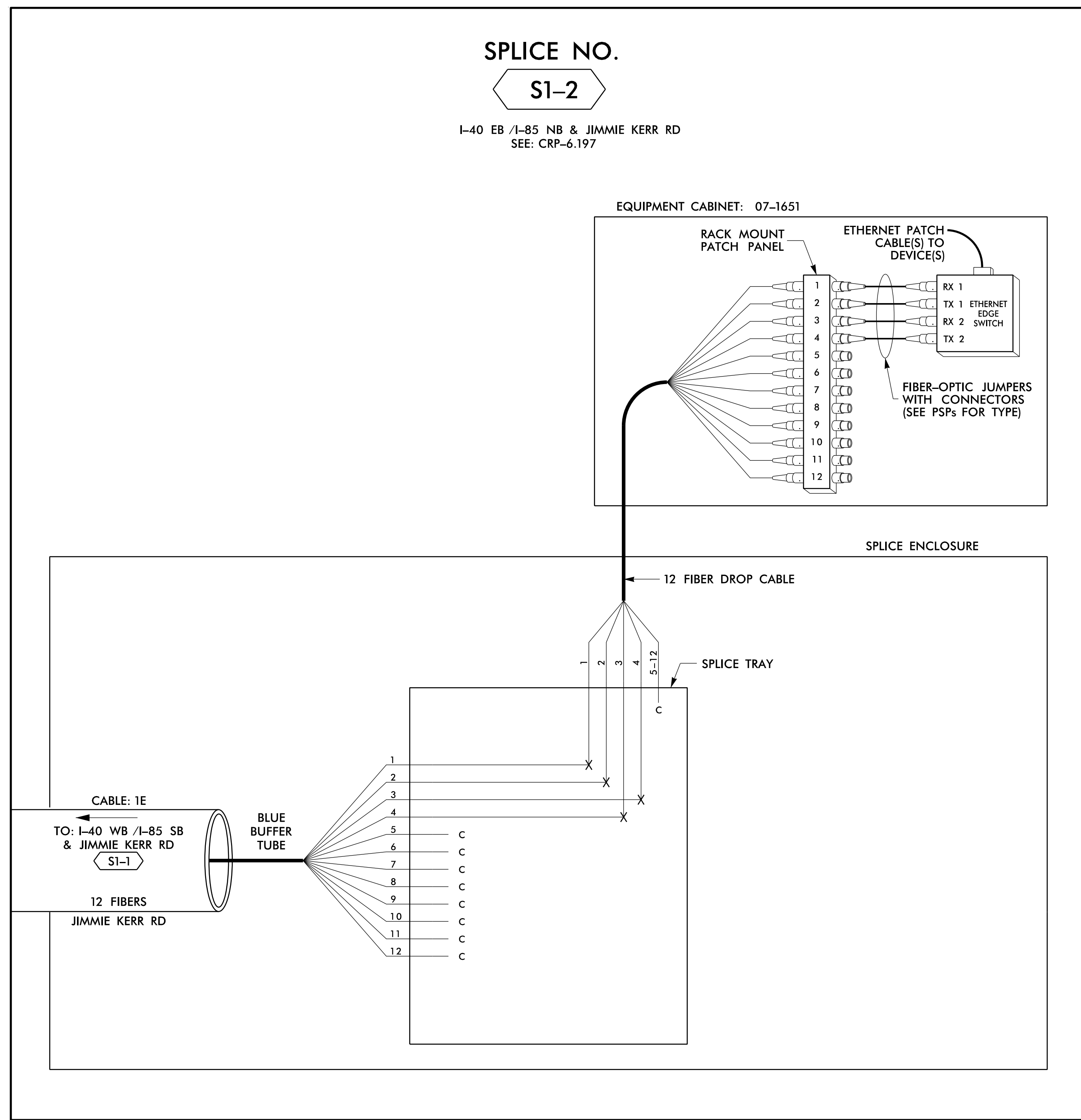
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BRADFORD J. SLOCUM
ENGINEER
15/2018

SPLICE NO.

S1-2

I-40 EB / I-85 NB & JIMMIE KERR RD
SEE: CRP-6.197



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LEGEND

COLOR CODE TIA/EIA 598-B		X = FUSION SPlice INDIVIDUAL FIBER C = CAP AND SEAL
(1) BLUE	(7) RED	EXPRESS ENTIRE BUFFER TUBE / FIBERS THROUGH WITHOUT CUTTING
(2) ORANGE	(8) BLACK	
(3) GREEN	(9) YELLOW	BUFFER SPlice SPlice ALL FIBERS IN BUFFER TUBE COLOR TO COLOR
(4) BROWN	(10) VIOLET	
(5) SLATE	(11) ROSE	EXISTING EXISTING BUFFER TUBE / FIBERS DO NOT MODIFY EXISTING SPlices OR EXPRESSED FIBERS.
(6) WHITE	(12) AQUA	

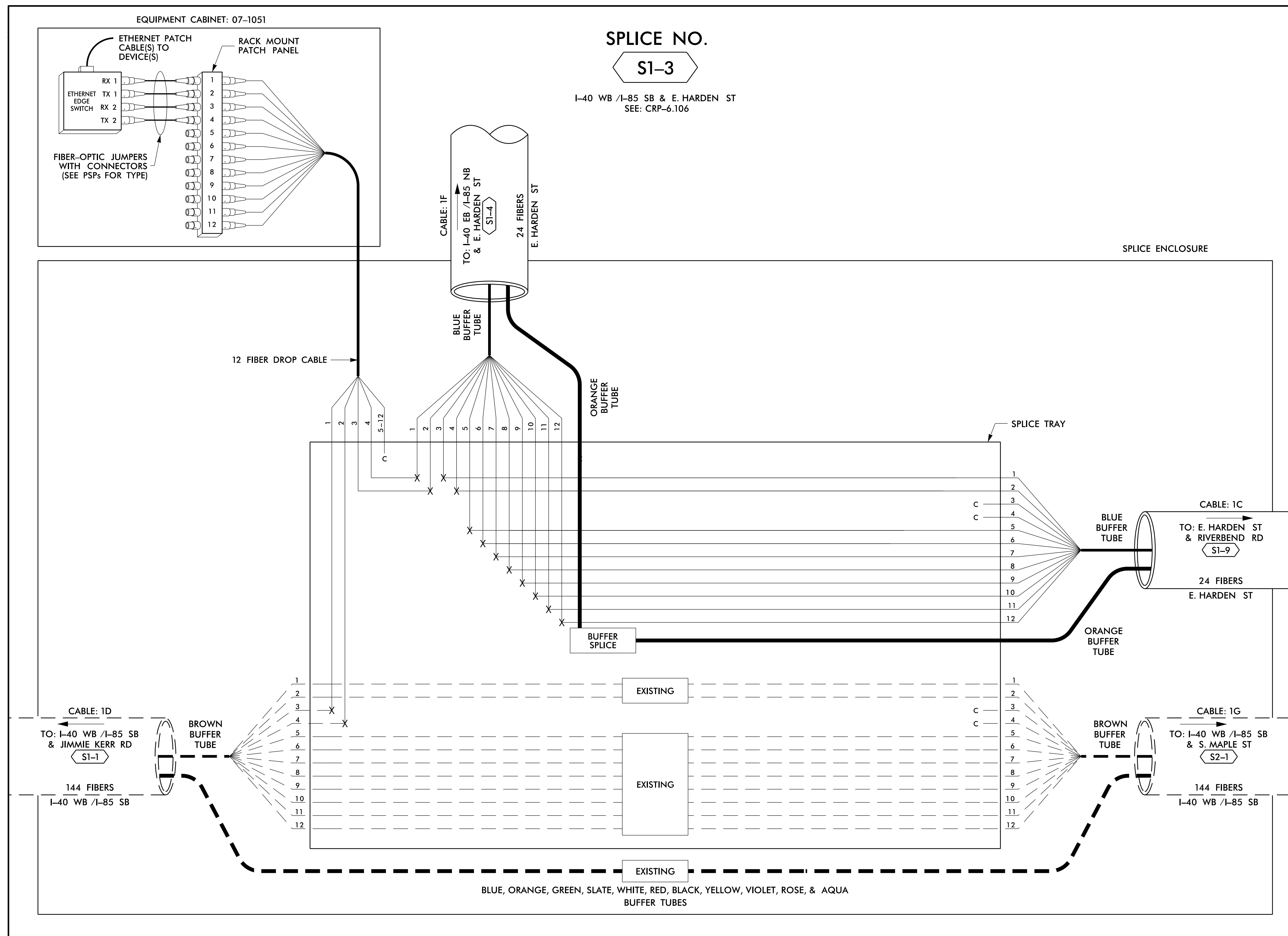
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	Division 7 Alamance County Burlington & Graham	PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	
SCALE N/A	REVISIONS INIT. DATE		DATE



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LEGEND

COLOR CODE TIA/EIA 598-B		X = FUSION SPlice INDIVIDUAL FIBER C = CAP AND SEAL	
(1) BLUE	(7) RED	EXPRESS	EXPRESS ENTIRE BUFFER TUBE /FIBERS THROUGH WITHOUT CUTTING
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	Division 7 Alamance County PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	Burlington & Graham REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	
	REVISIONS	INIT. DATE	
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