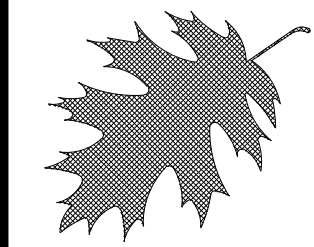
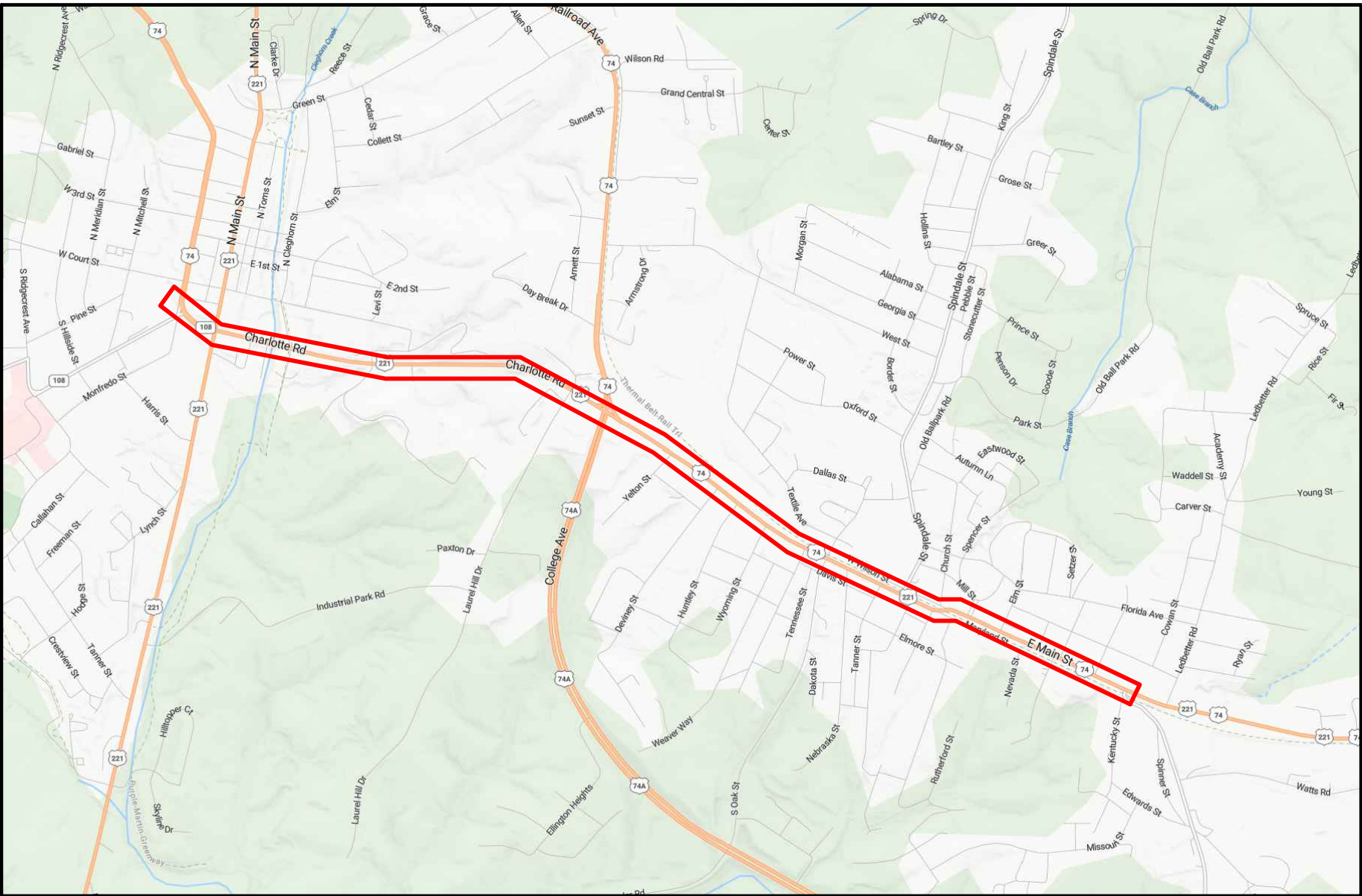
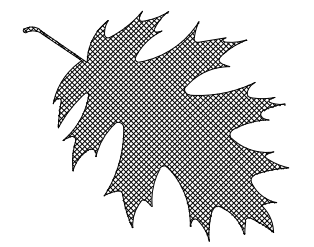


PROJECT: US221A (CHARLOTTE ROAD/MAIN STREET) IN RUTHERFORDTON. CONSTRUCT COMPLETE STREET.

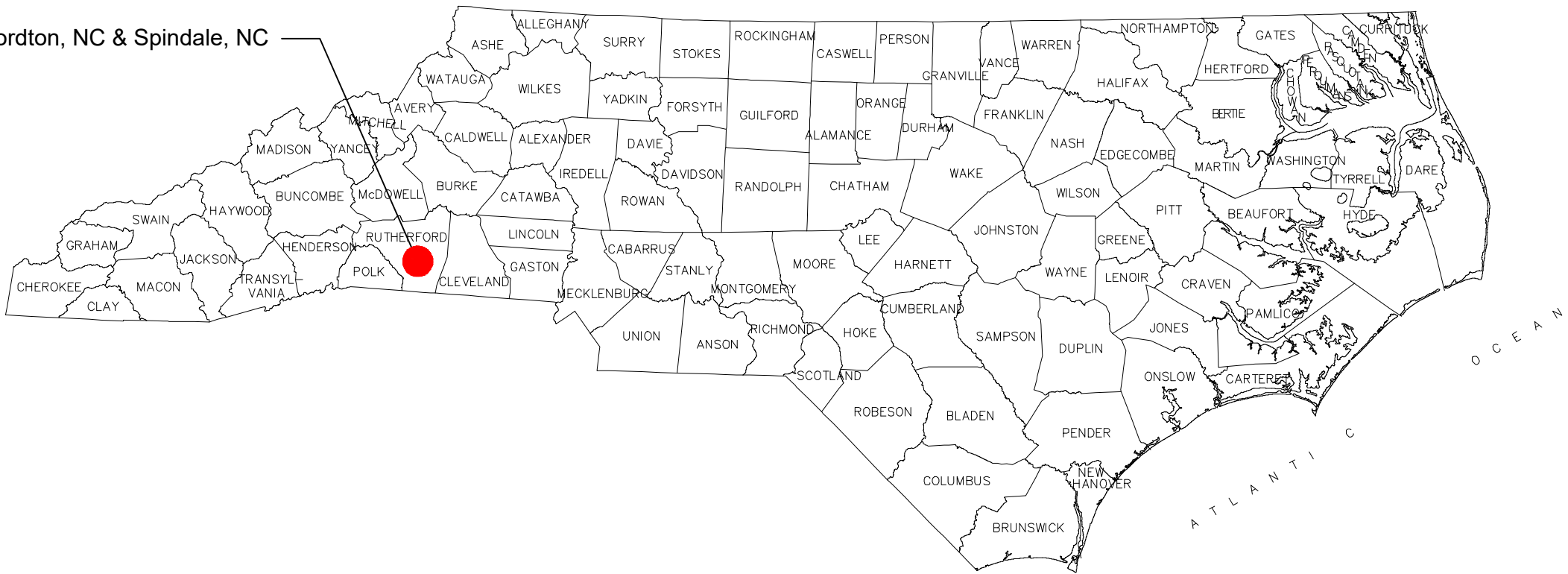


HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



Project Location **Rutherford, NC**

Rutherfordton, NC & Spindale, NC

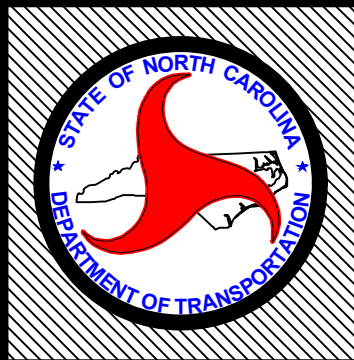


Summary of Quantities

DES	SEC	QTY	UNIT	KEY	BOTANICAL NAME	COMMON NAME	FURNISH	NOTES	A.S.N.S.
Trees									
L	1670	1	ea		Cornus florida	Flowering Dogwood	25 gal.	6'-8' Height	2.4.2
L	1670	8	ea		Juniperus virginiana 'Burkii'	Eastern Red Cedar	25 gal.	6'-8' Height	4.9.2
L	1670	11	ea		Acer saccharum	Sugar Maple	30 gal.	2" caliper 8'-10' Height	2.1.2
Shrubs									
L	1670	23	ea		Itea virginiana	Virginia Sweetpie	3 gal.	18"-24" Ht. 3' O.C.	3.2.2
L	1670	48	ea		Ilex vomitoria 'Nana'	Dwarf yaupon Holly	5 gal.	4' O.C. 15"-18" Ht.	5.6.2
Grasses/Groundcovers/Perennials									
L	1670	1071	ea		Rudbeckia hirta	Black Eyed Susan	1 gal.	18" O.C.	13.3
L	1670	120	ea		Iris verna	Dwarf Flag Iris	4" pot	6" O.C.	13.2.5
L	1670	127	ea		Muhlenbergia capillaris	Pink Muhly Grass	3 gal.	4' O.C.	13.4
L	1670	9	ea		Echinacea purpurea	Eastern Purple Coneflower	2 gal.	3' O.C.	13.3

NOTES:

- Existing conditions shown on the plans are based on survey information and roadway plans. actual site conditions may vary.
- Prior to any demolition or work taking place, the contractor shall locate and verify all utility lines and structures within the construction areas (water, sewer, gas, electrical, etc.)
- The contractor shall take the necessary precautions to prevent damage of adjacent plant material, facilities, and structures to remain. The contractor shall restore disturbed areas to their original condition and to the satisfaction of the Division Roadside Environmental Engineer.
- The utilities shown on the plans are approximate locations. The contractor shall locate and protect in place all existing utilities before digging occurs and major construction begins.
- Demolition, removal, and disposal of items from the site must be completely in accordance with the law. The contractor is responsible for making a site visit to determine and verify all demolition requirements prior to bidding.
- The contractor shall verify all conditions and dimensions at the job site prior to construction, and if discrepancies are found, notify the Division Roadside Environmental Engineer for clarification.



STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: US 221A (CHARLOTTE ROAD/MAIN STREET) IN RUTHERFORDTON.

TYPE of WORK: TIP HL0065 Plantings and Hardscapes

COUNTY: RUTHERFORD

DIVISION:

13

T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
HL0065	50685.3.1	L1	L26
FED. PROJ. #	DESCRIPTION	DIVISION	
5068501	CONSTRUCTION	13	

CONVENTIONAL SYMBOLS

County Line	----
City or Town Line	-----
Exist. Right of Way Line Marker	-----△-----
Prop. Right of Way Line Marker	-----▲-----
(By Others)	-----▲-----
Prop Right of Way Line Marker	-----▲-----
(By Contract)	-----▲-----
Exist. Control of Access Line	-----○-----
Prop. Control of Access Line	-----○-----
Property Line	-----E-----
Easement Line	-----E-----
Slope Stake Line	-----+-----
Exist. Fence	-----+-----
Prop. Woven Wire Fence	-----+-----
Prop. Chain Link Fence	-----+-----
Exist. Road	-----+-----
Prop. Road	-----+-----
Guardrail	-----+-----
Survey Line	-----+-----
Denotes Line Equality	-----+-----
Bridge	-----+-----
Culvert	-----+-----
Railroad	-----+-----
Woods	-----+-----
Exist. Telephone Pole	-----+-----
Prop. Telephone Pole	-----+-----
Tower Pole and Line	-----+-----
Exist. Power Pole	-----+-----
Prop. Power Pole	-----+-----
Sanitary Sewer Line	-----+-----
Water Line	-----+-----
Gas Line	-----+-----
Picnic Shelter	-----+-----
Regeneration	-----+-----
Reforestation	-----+-----

SHEET INDEX:

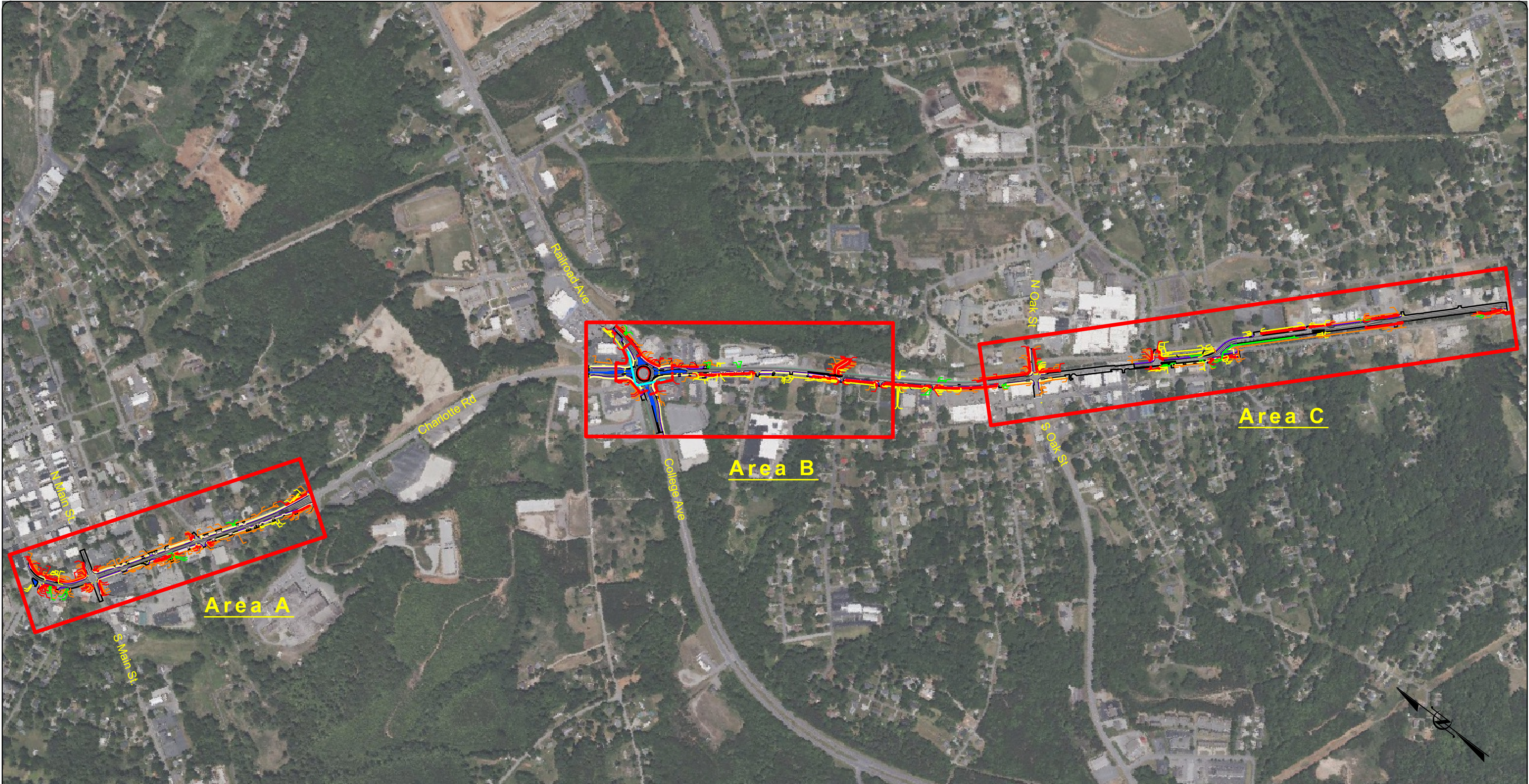
- L1 - Cover Sheet
- L2 - Master Site Areas Site Map View
- L3 - Area A Improvement Site Plan
- L4-L5 - Area A Improvement Views
- L6-L7 - S. Cleghorn St. Planting Plans
- L8 - Area B Improvement Site Plan
- L9-13 - Roundabout Area Layout and Planting Plans
- L14-L15 - Greenway MUP Planting Plans
- L16 - Area C Improvement Site Plan
- L17-L18 - Section 1 Planting Plans
- L19-L20 - Section 2 Planting Plans
- L21-L22 - Section 3 Planting Plans
- L23-L24 - Section 4 Planting Plans
- L25-L26 - Irrigation Details

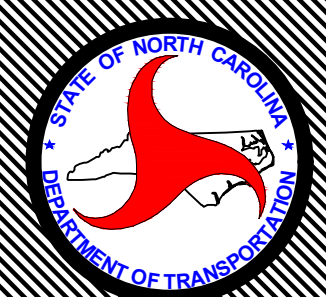
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Tony Sumter & Taylor Dunston

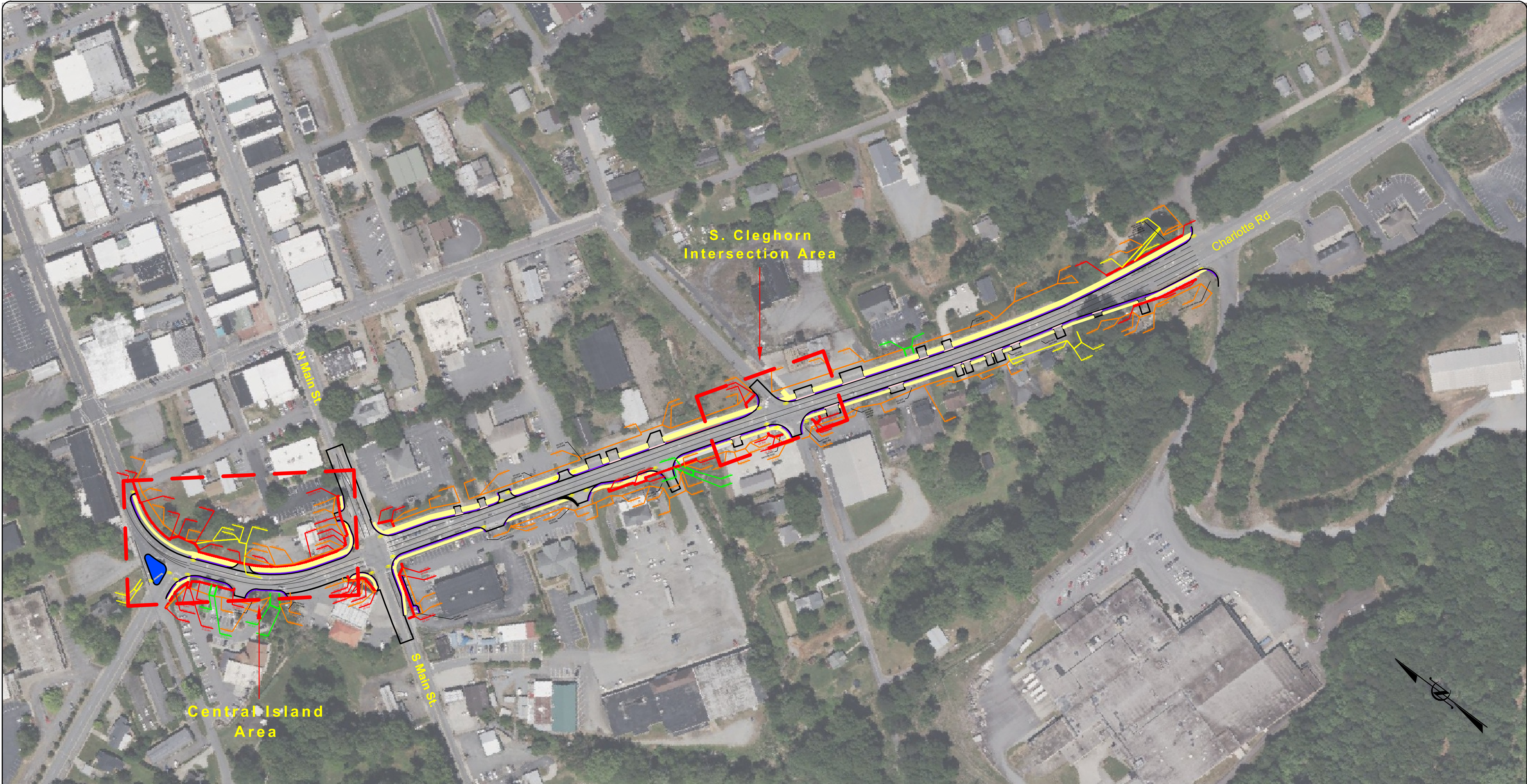
REVISIONS

DATE	DESCRIPTION

2014 American Standard for Nursery Stock
2024 NCDOT STANDARD SPECIFICATIONS
PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
AESTHETIC ENGINEERING SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920



	NCDOT - ROADSIDE ENVIRONMENTAL UNIT AESTHETIC ENGINEERING SECTION 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557 PH: 919-707-2935 FAX: 919-715-2554 http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/	HL0065: Rutherford US 221A Improvement Charlotte Rd Improvement TIP #: HL0065	SHEET DESCRIPTION:	PREL. DESIGN DATE : 4/23/2026		Master Site Areas		T.I.P. # HL0065	
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				PROJECT TEAM: A. Sumter & T. Dunston				SHEET NO : L2	
				TOTAL SHEET NO : L26					



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http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

HL0065: Rutherford US 221A Improvement
North Main St & South Main St
TIP #: HL0065

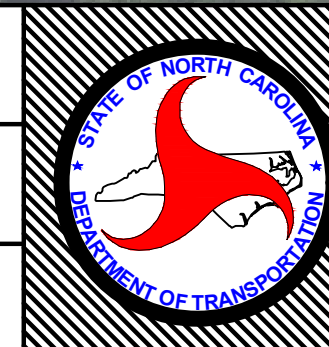
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PROJECT DESIGNER:	Azad Atashi
PROJECT TEAM:	A. Sumter & T. Dunston

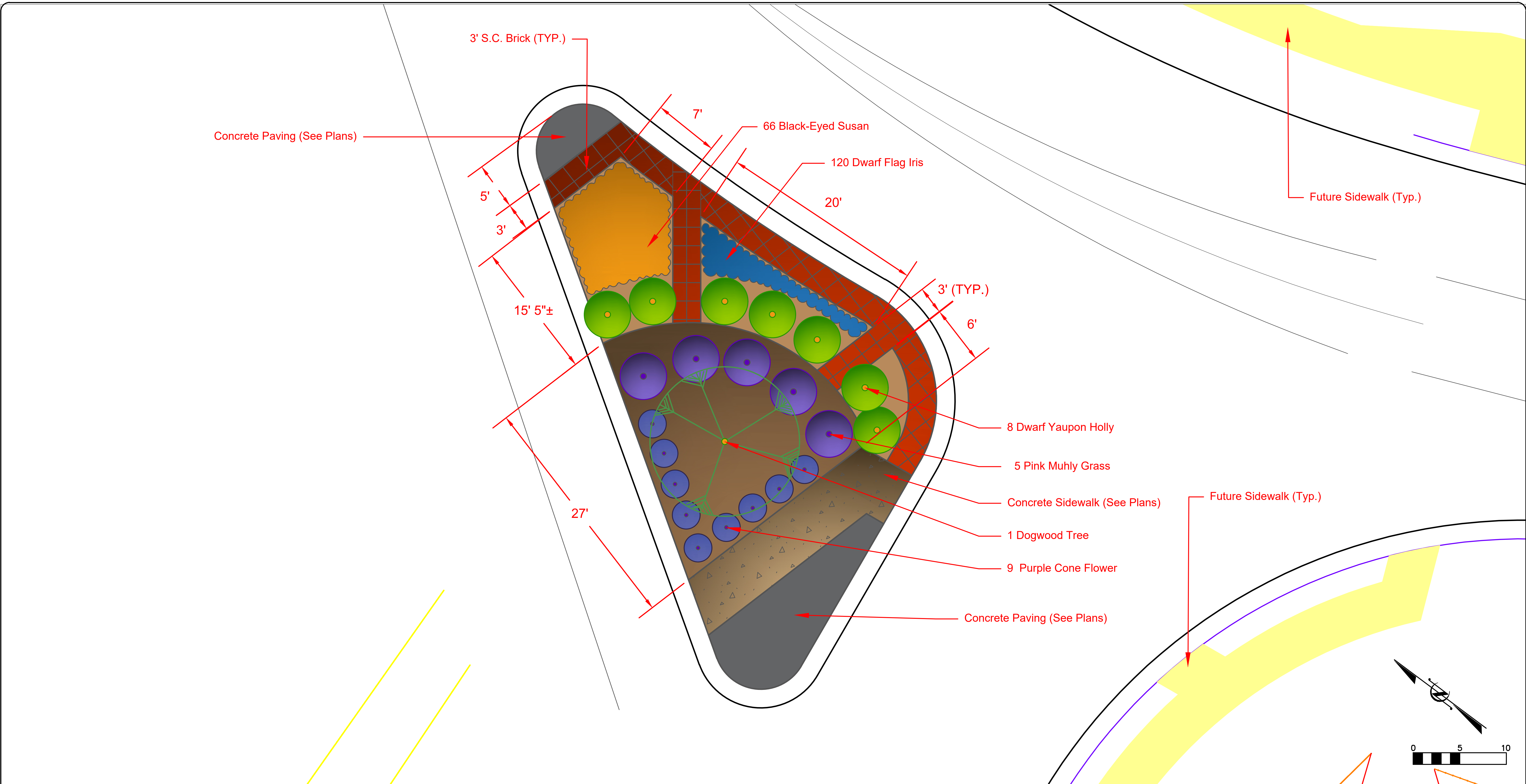
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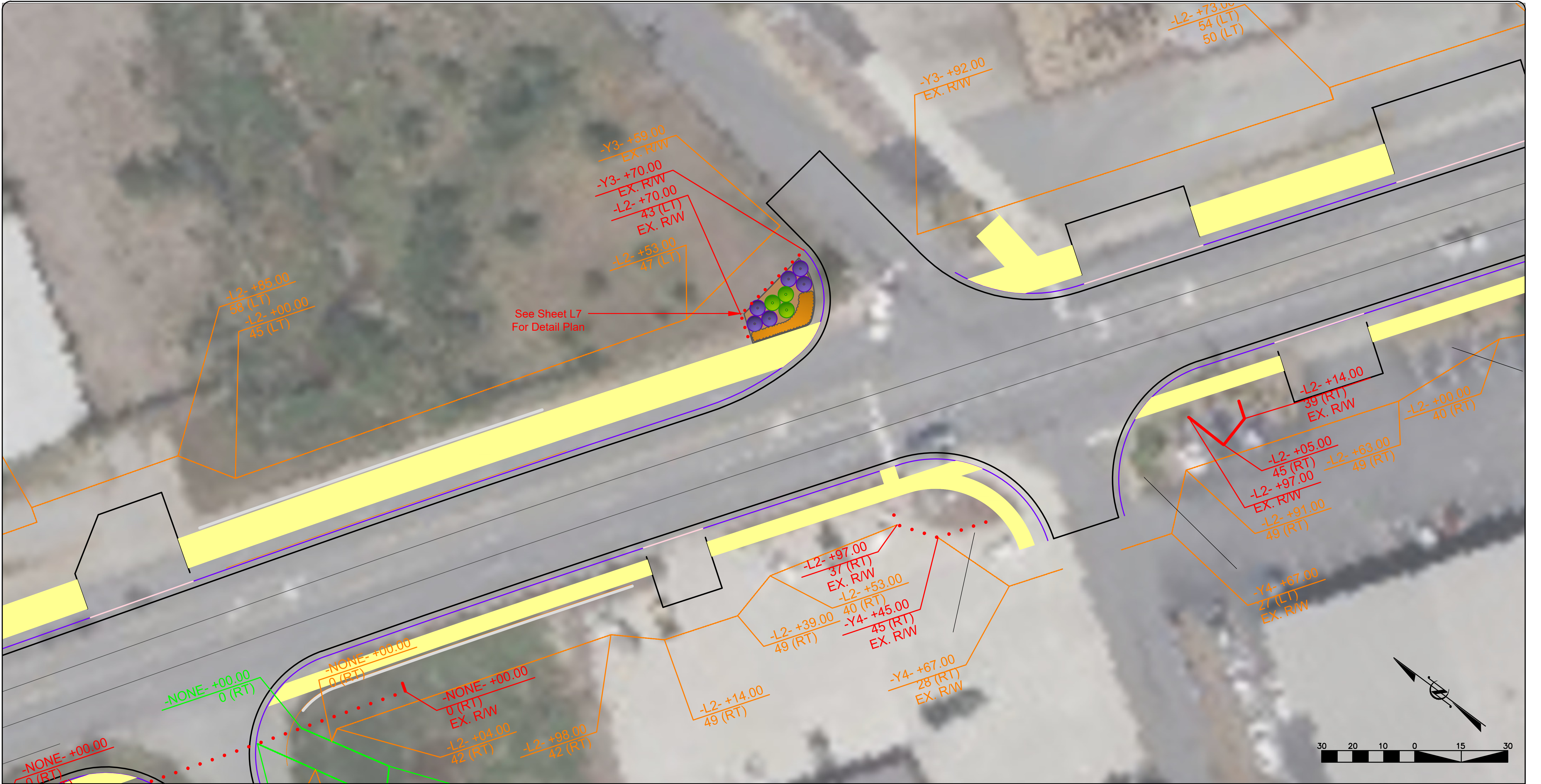
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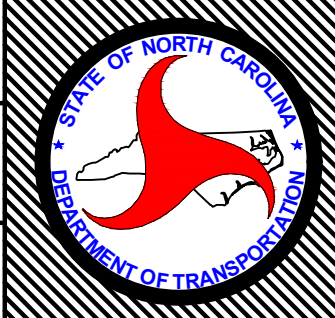
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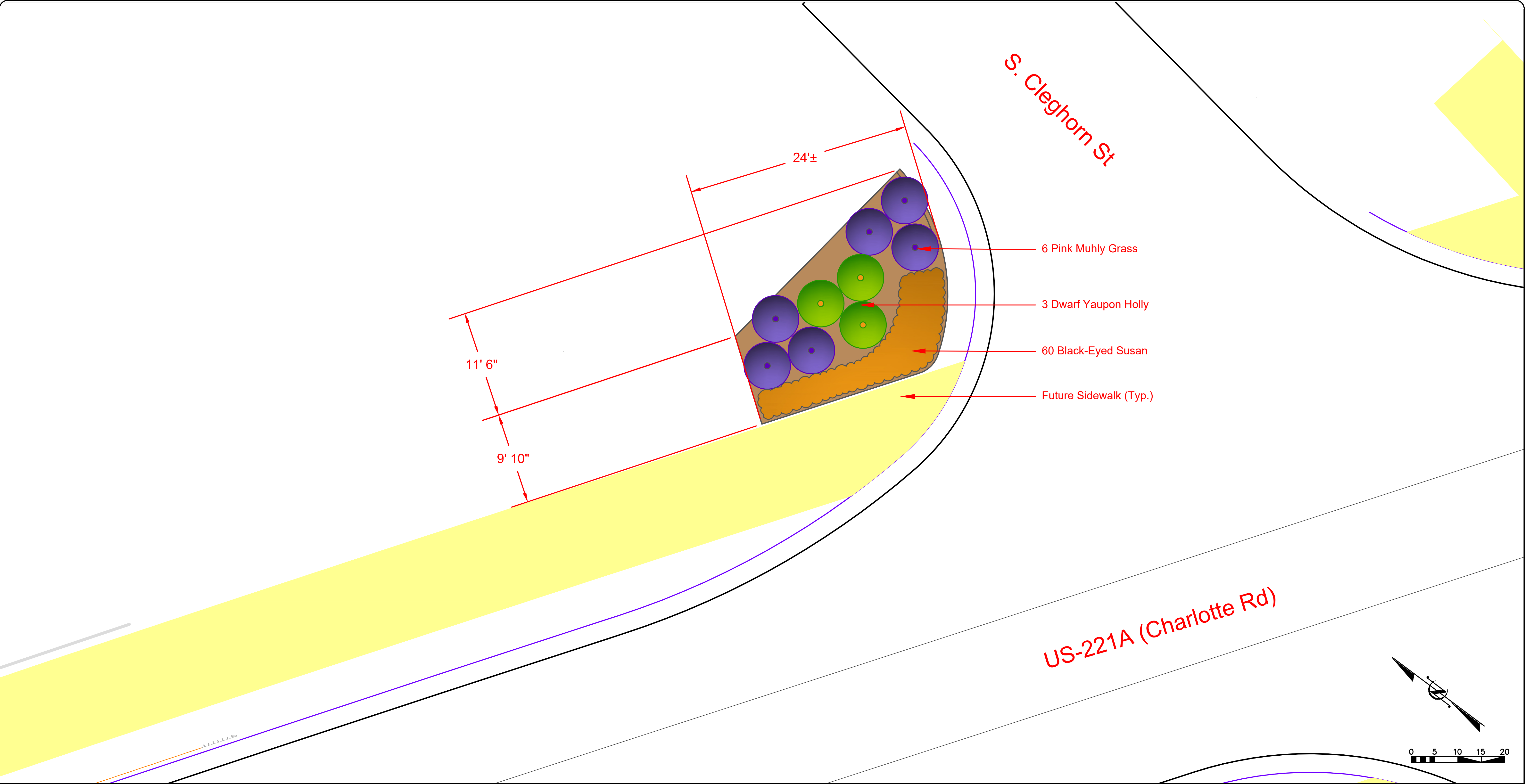


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TOTAL SHEET NO:	L26

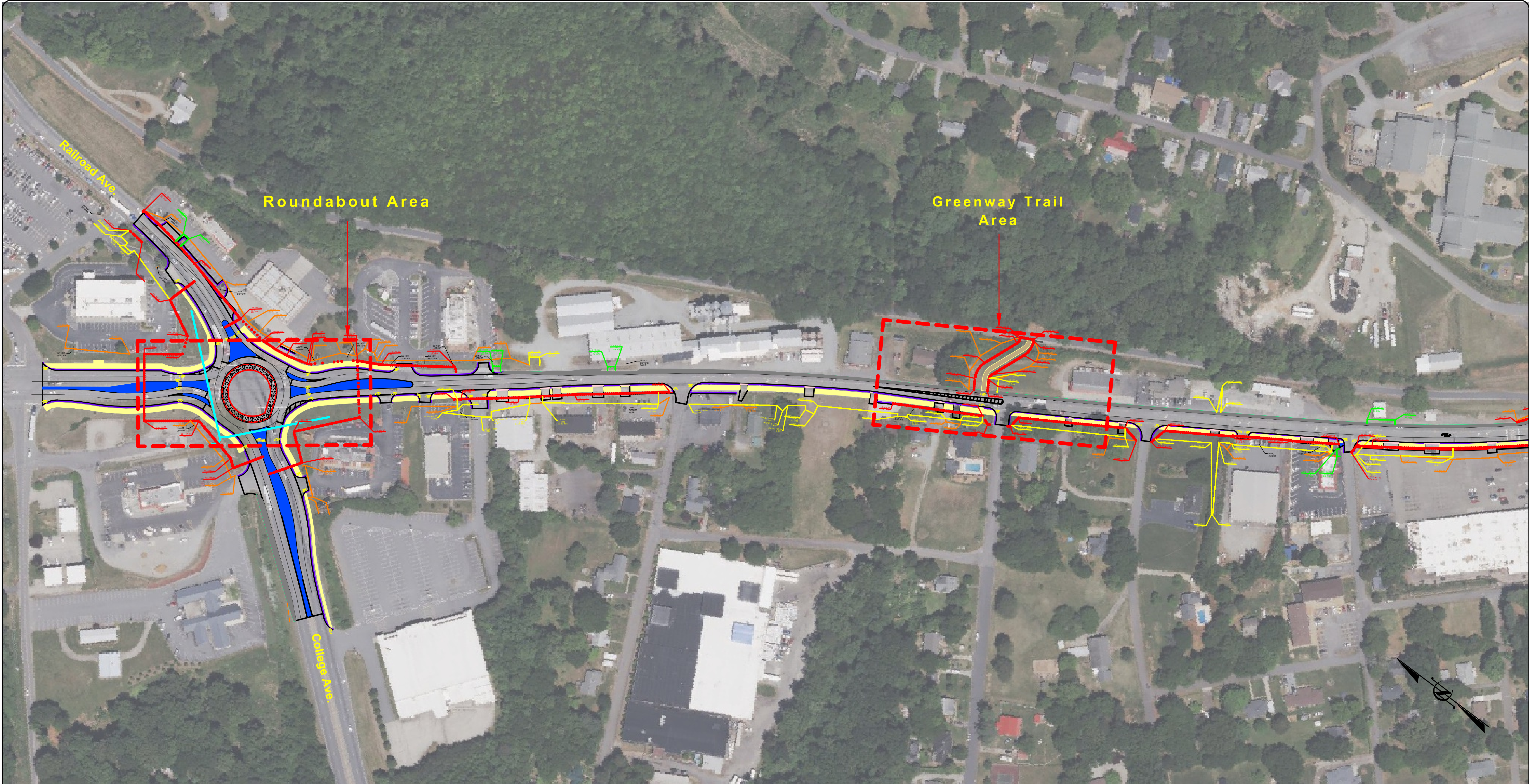




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				PROJECT TEAM: A. Sumter & T. Dunston					SHEET NO : L6	
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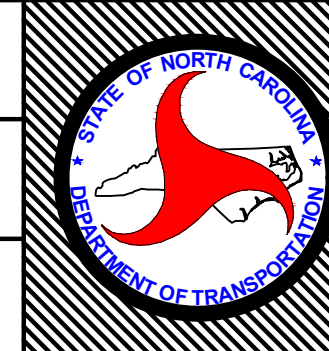
NCDOT - ROADSIDE ENVIRONMENTAL UNIT
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http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

HL0065: Rutherford US 221A Improvement
Railroad Ave & College Ave
TIP #: HL0065

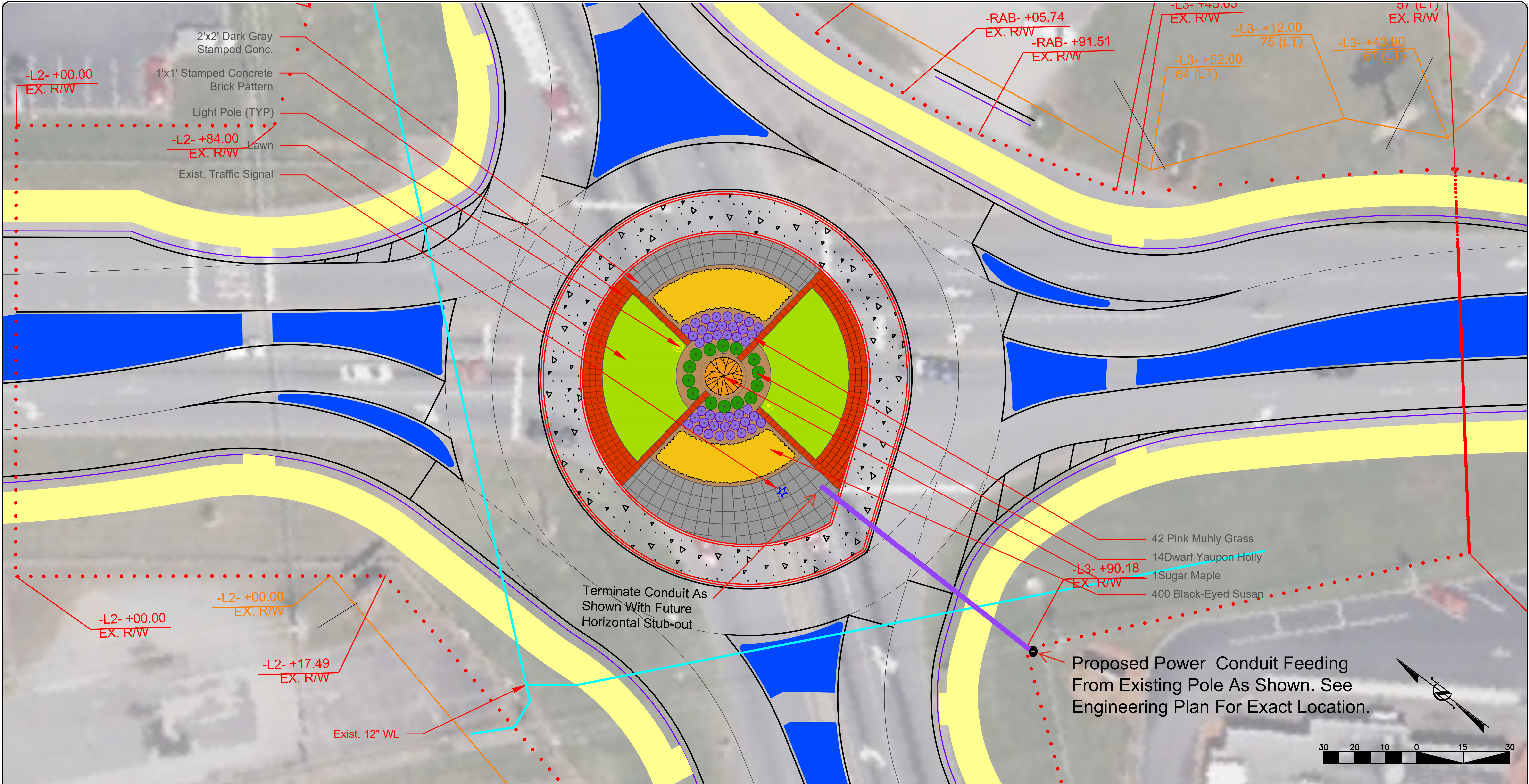
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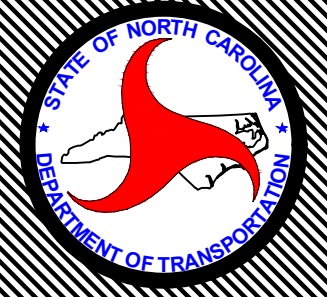
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FINAL DESIGN DATE:	4/23/2026
PROJECT DESIGNER:	Azad Atashi
PROJECT TEAM:	A. Sumter & T. Dunston

Area B
Improvement Site Plan
Scale: No Scale



T.I.P. #	HL0065
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FED I.D. #	-----
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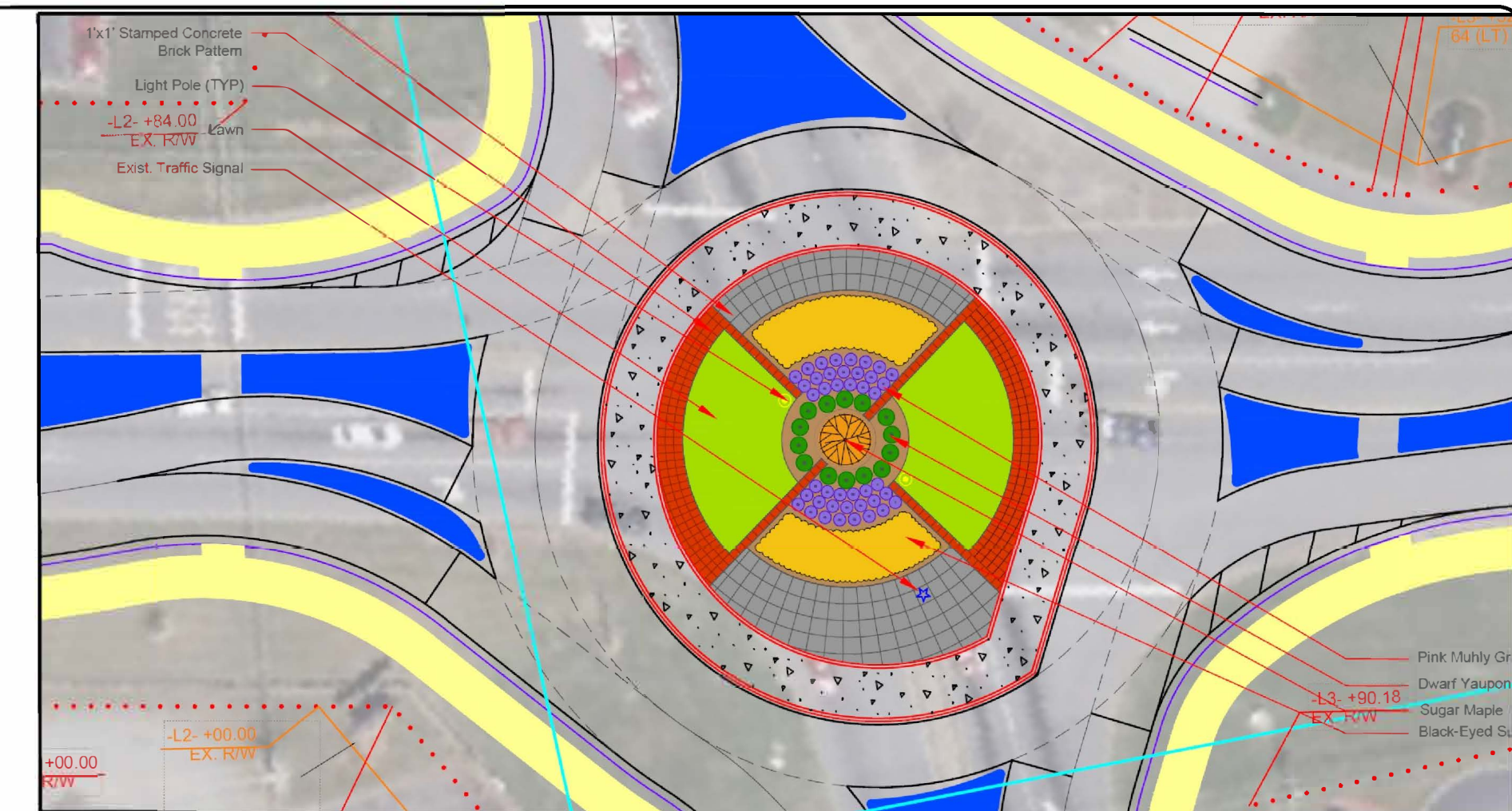
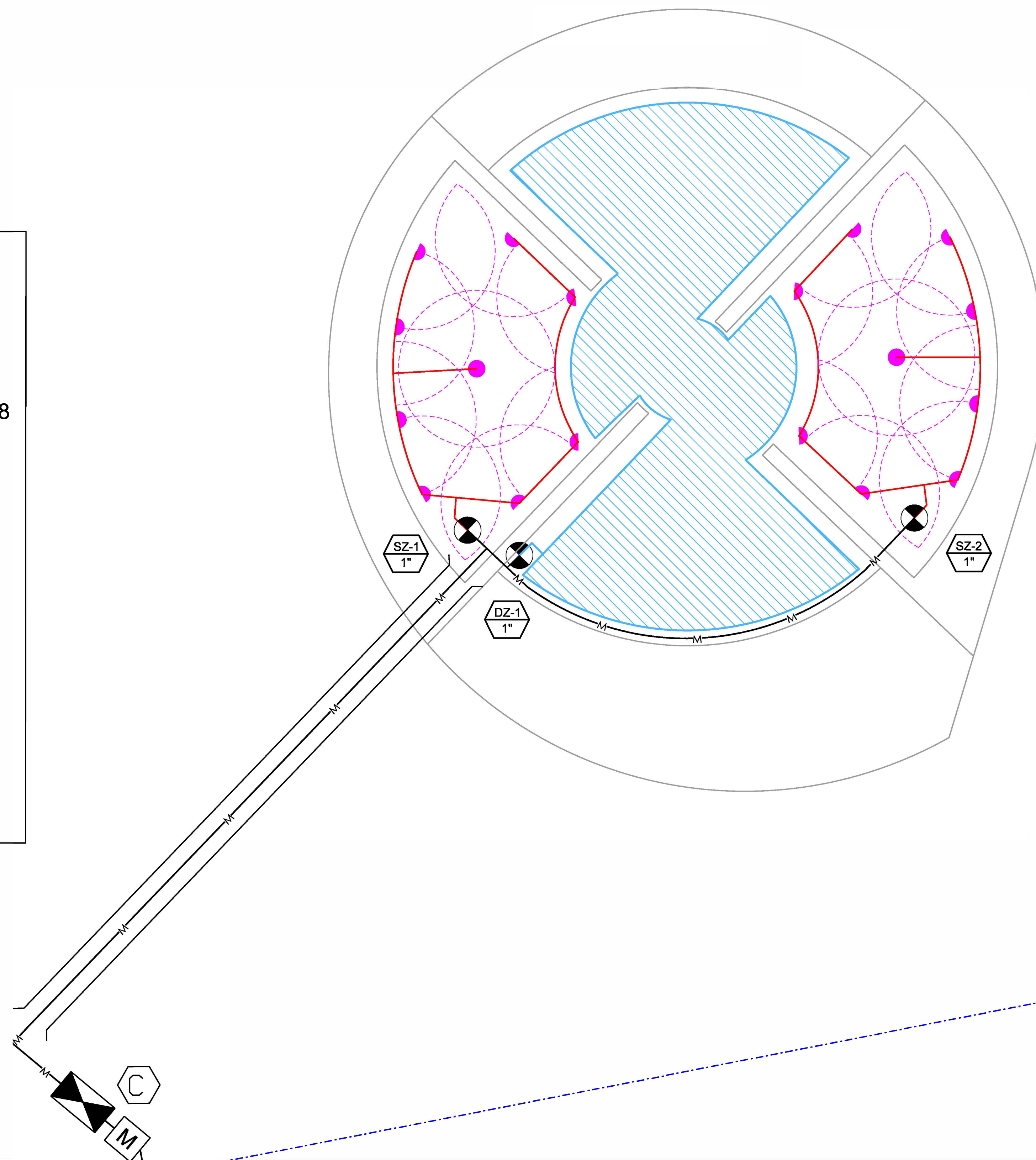
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				PROJECT DESIGNER: Azad Atashi PROJECT TEAM: A. Sumter & T. Dunston	Scale: 1"=30'		FED I.D. # - - - - -
							SHEET NO: L9 TOTAL SHEET NO: L26

Meter Locations - 1
Backflow Preventers - 1
Battery Powered Controllers - 1
Drip Zone Valve (DZ) - 1
Spray Zone Valve (SZ) - 2
10' r Pop-up Rotator Spray Head - 18
Main Line Pipe - 165 SF 1 1/2"
Sleeve Pipe - 85 LF (4" Sleeve)
Drip Line - 1,100 LF (3/4" Tubing)

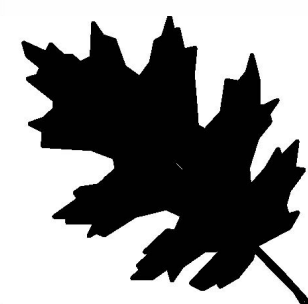
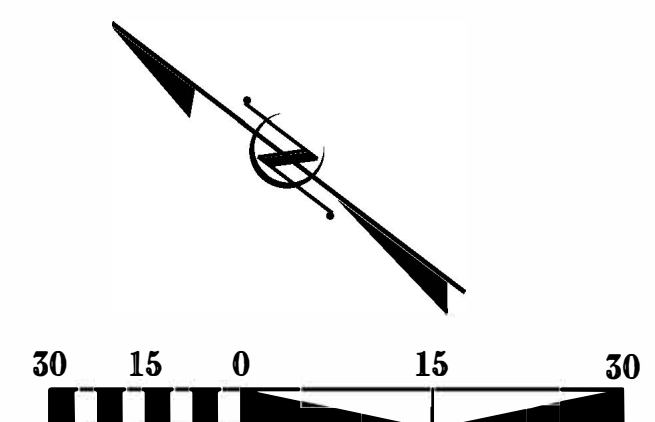
Quantities are estimated based on design drawings. Refer to plans for any discrepancies. Plans take priority over these estimated quantities. Estimated quantities do not cover all materials necessary for installation. Quantities may be adjusted slightly due to site conditions, specific irrigation equipment, and implementation.

DRIP IRRIGATION

-  - Drip irrigation is to be 3/4" Netolm, Rainbird, or Orbit tubing with emitters spaced at 9" intervals for smaller plants and 12" intervals for larger plants and 1' gaps. An approved inline emitter drip line is to be installed under landscape areas as shown on the irrigation plan. Install all drip line before mulch is installed.
-  - Drip Valve Assembly, which includes a Hunter, Rainbird, or Toro remote control valve with low control feature, a manual filter , one a pressure regulator.
- All remote control valves shall be installed in high-density polyethylene (HDPE) valve boxes with lids mounted at grade level. Single valves may be installed in smaller valve boxes with covers, while multiple valves (up to 2", 1" valves or 1 - 1/2") shall be installed in larger boxes with covers.
- Each system shall have a class 200, 1 1/2" supply header and a flush/exhaust header to maintain even flow throughout the system. Larger systems may require center feed supply headers.
- There should be a minimum of 2 emitters installed per shrub and 3 emitters installed per tree.
- All drip zones should have a drip system operation indicator head installed within them, so technicians can observe whether the system is functioning properly. If possible, place the indicator head towards the end of the drip line system in a visible area or as directed by the engineer.



Key Map



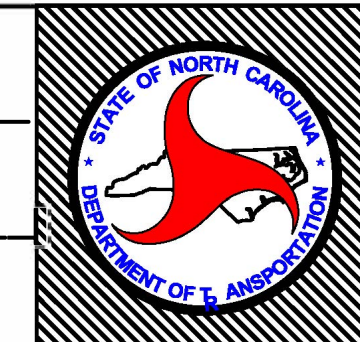
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http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

HL0065: Rutherford US 221A Improvement
Railroad Ave & College Ave
TIP #: HL0065

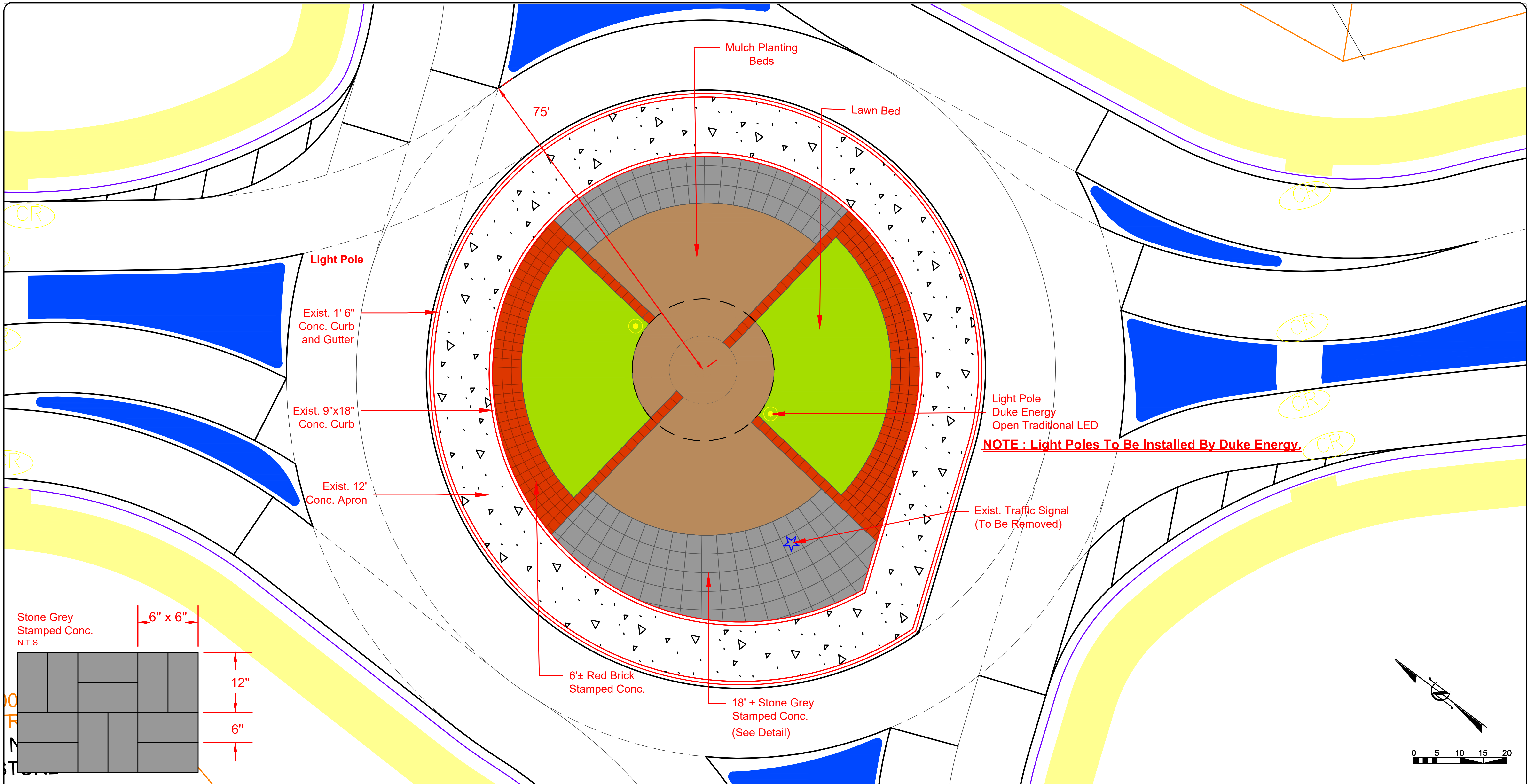
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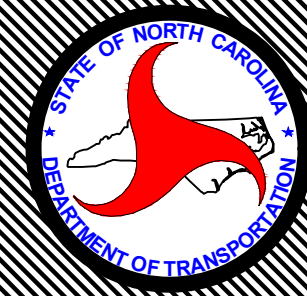
PROJECT DESIGNER:	Azad Atashi, RLA
PROJECT TEAM:	A. Sumter & T. Dunston

Scale: 1" = 30'



SHEET NO :	TOTAL SHEET NO :
L-11	L-26



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				PROJECT TEAM: A. Sumter & T. Dunston				SHEET NO : L12	
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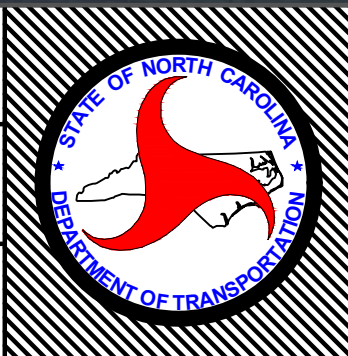


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http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

HL0065: Rutherford US 221A Improvement
Railroad Ave & College Ave
TIP #: HL0065

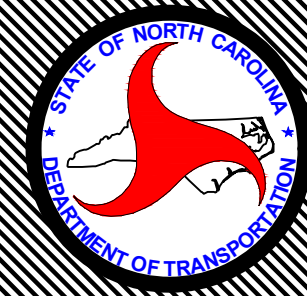
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	PROJECT DESIGNER:	Azad Atashi
	PROJECT TEAM:	A. Sumter & T. Dunston

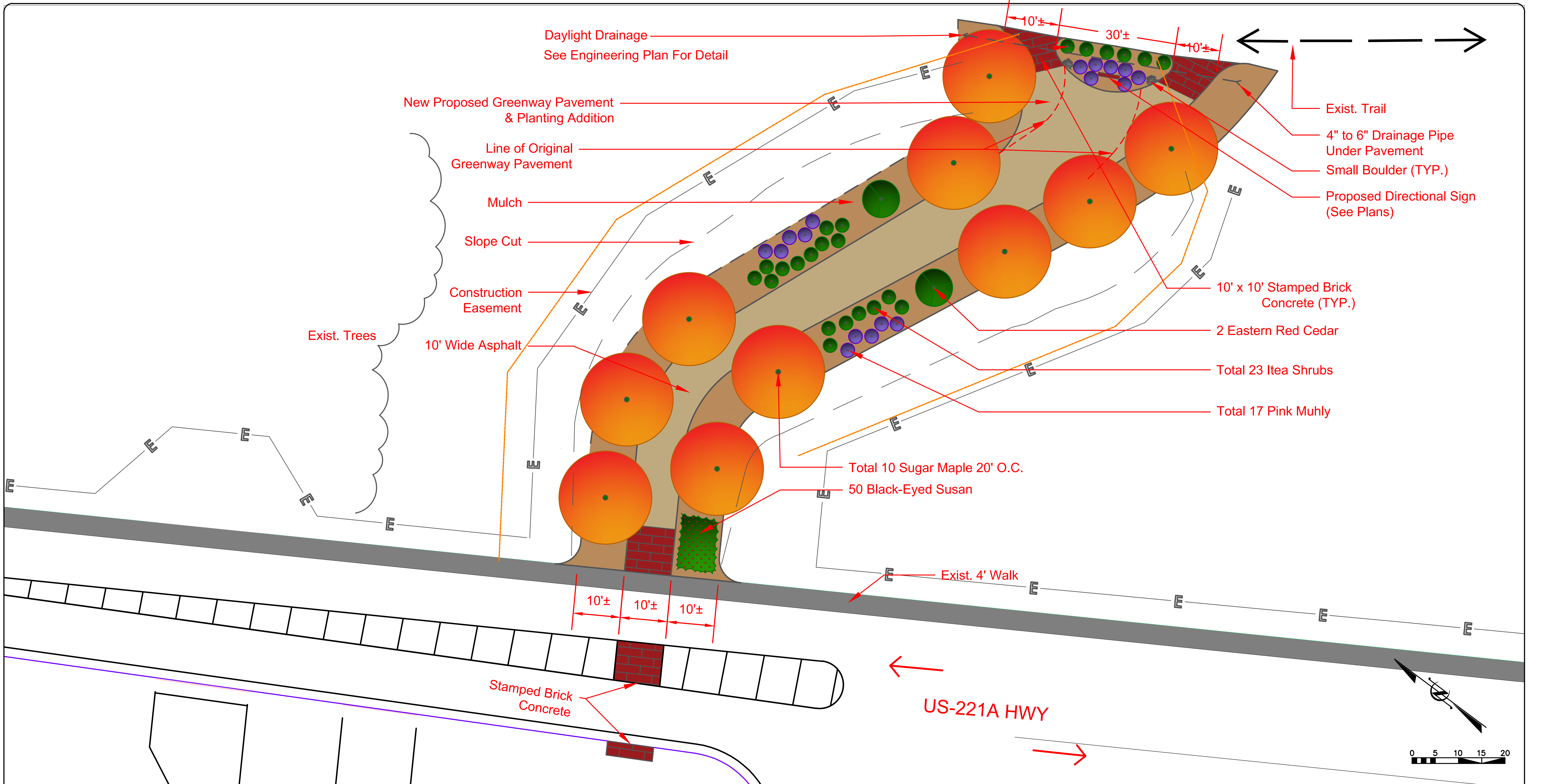
MUP Greenway
3D Visualization
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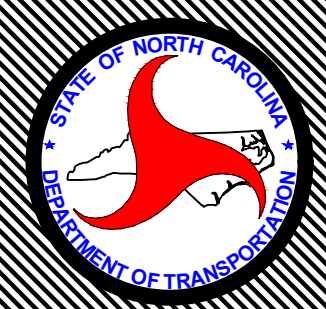


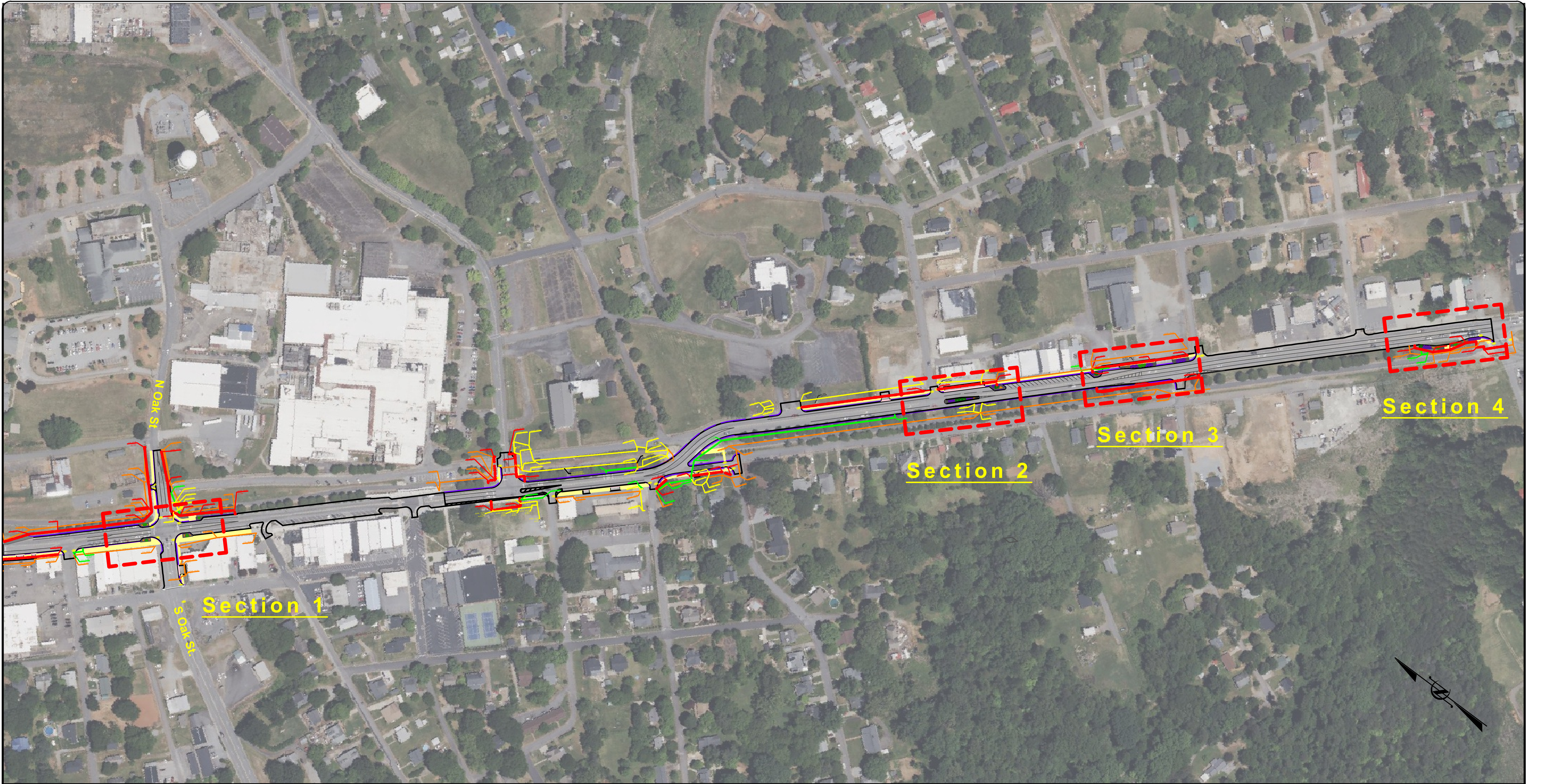
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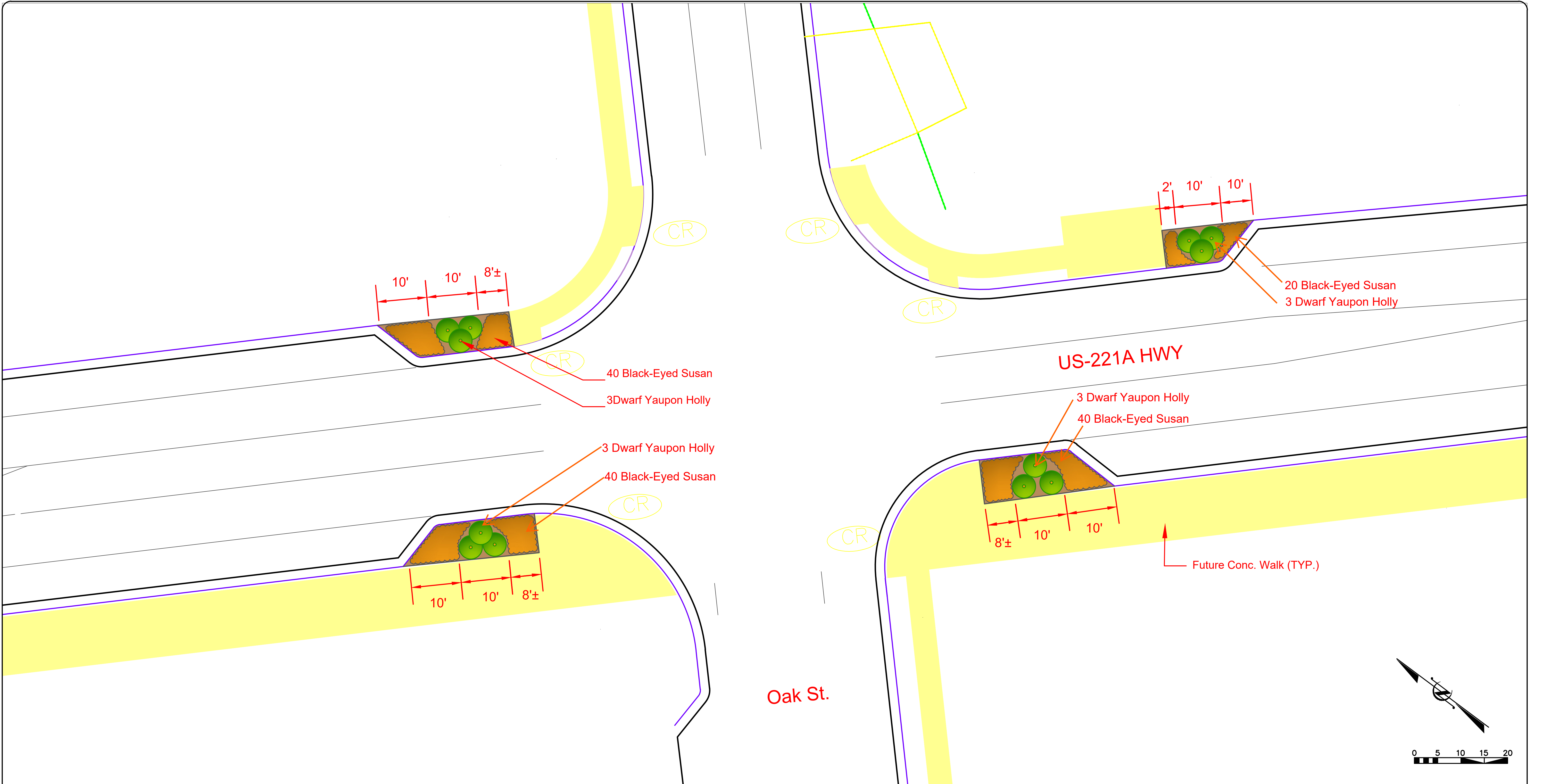
	NCDOT - ROADSIDE ENVIRONMENTAL UNIT AESTHETIC ENGINEERING SECTION 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557 PH: 919-707-2935 FAX: 919-715-2554 http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/	HL0065: Rutherford US 221A Improvement Railroad Ave & College Ave TIP #: HL0065	SHEET DESCRIPTION:	PREL. DESIGN DATE : 4/23/2026	Greenway (Area B)		T.I.P. # HL0065			
				FINAL DESIGN DATE : 4/23/2026	MUP Plan Layout		WBS # - - - - -			
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				PROJECT TEAM: A. Sumter & T. Dunston					SHEET NO : TOTAL SHEET NO : L14 L26	

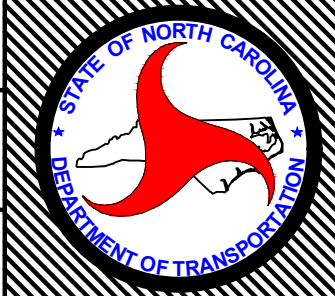


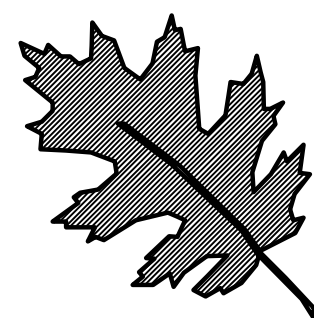
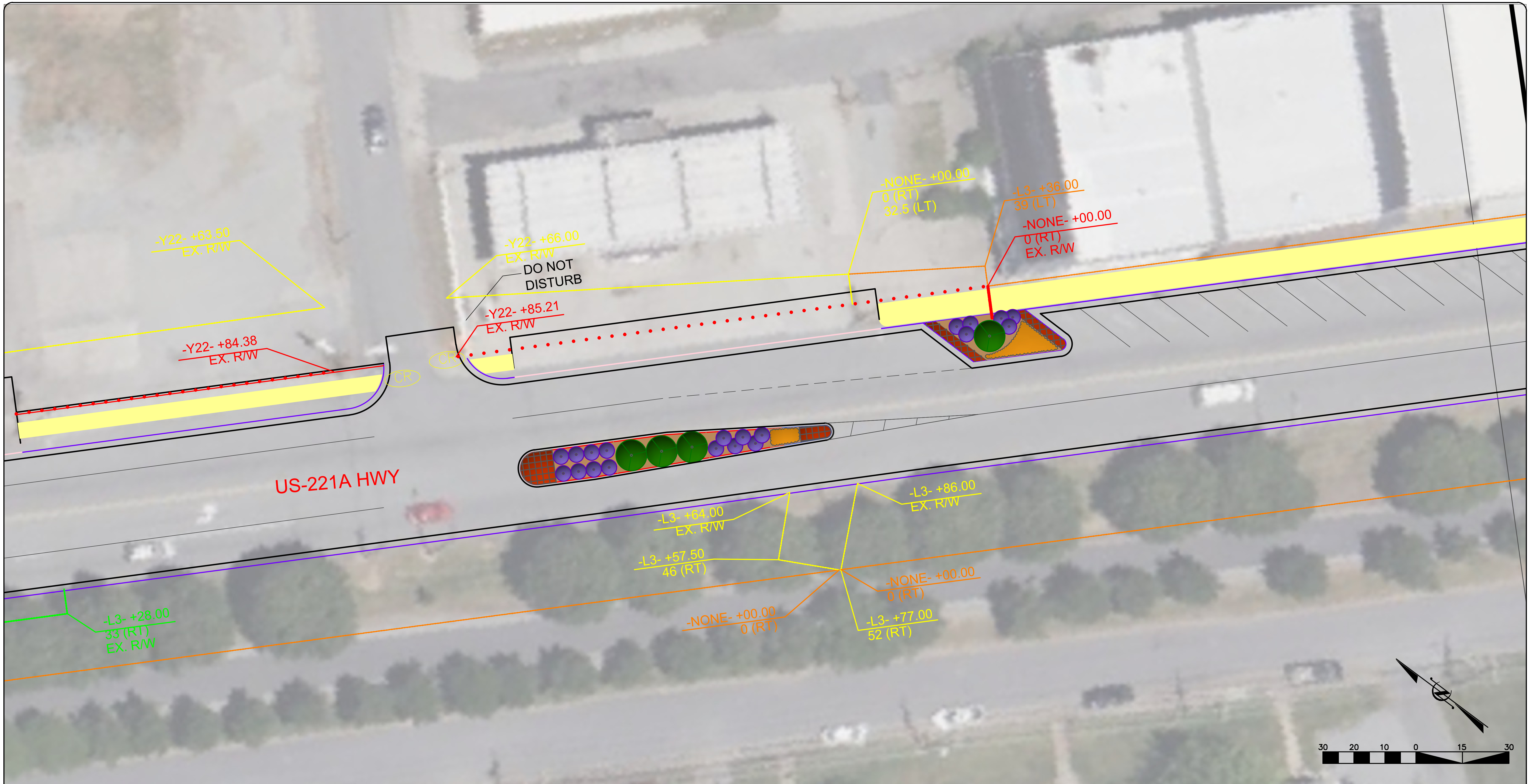
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	NCDOT - ROADSIDE ENVIRONMENTAL UNIT AESTHETIC ENGINEERING SECTION 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557 PH: 919-707-2935 FAX: 919-715-2554 http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/	HL0065: Rutherford US 221A Improvement North Oak St & South Oak St TIP #: HL0065	SHEET DESCRIPTION:	PREL. DESIGN DATE : 4/23/2026		Section 1 (Area C)		T.I.P. # HL0065					
				FINAL DESIGN DATE : 4/23/2026		Detail Planting Layout		WBS # - - - - -					
				<table><tr><td>PROJECT DESIGNER:</td><td>Azad Atashi</td></tr><tr><td>PROJECT TEAM:</td><td>A. Sumter & T. Dunston</td></tr></table>		PROJECT DESIGNER:		Azad Atashi	PROJECT TEAM:	A. Sumter & T. Dunston	Scale: 1":20'	FED I.D. # - - - - -	
						PROJECT DESIGNER:		Azad Atashi					
				PROJECT TEAM:	A. Sumter & T. Dunston								
<table><tr><td>SHEET NO :</td><td>TOTAL SHEET NO :</td></tr><tr><td>L18</td><td>L26</td></tr></table>		SHEET NO :	TOTAL SHEET NO :	L18	L26								
SHEET NO :	TOTAL SHEET NO :												
L18	L26												



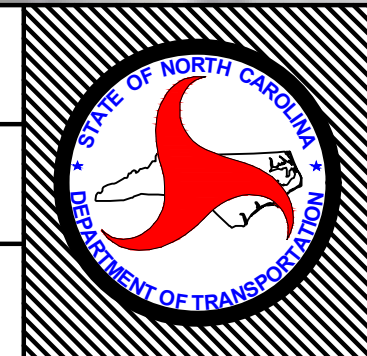
NCDOT - ROADSIDE ENVIRONMENTAL UNIT
AESTHETIC ENGINEERING SECTION
1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557
PH: 919-707-2935 FAX: 919-715-2554
http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

HL0065: Rutherford US 221A Improvement
North Oak St & South Oak St
TIP #: HL0065

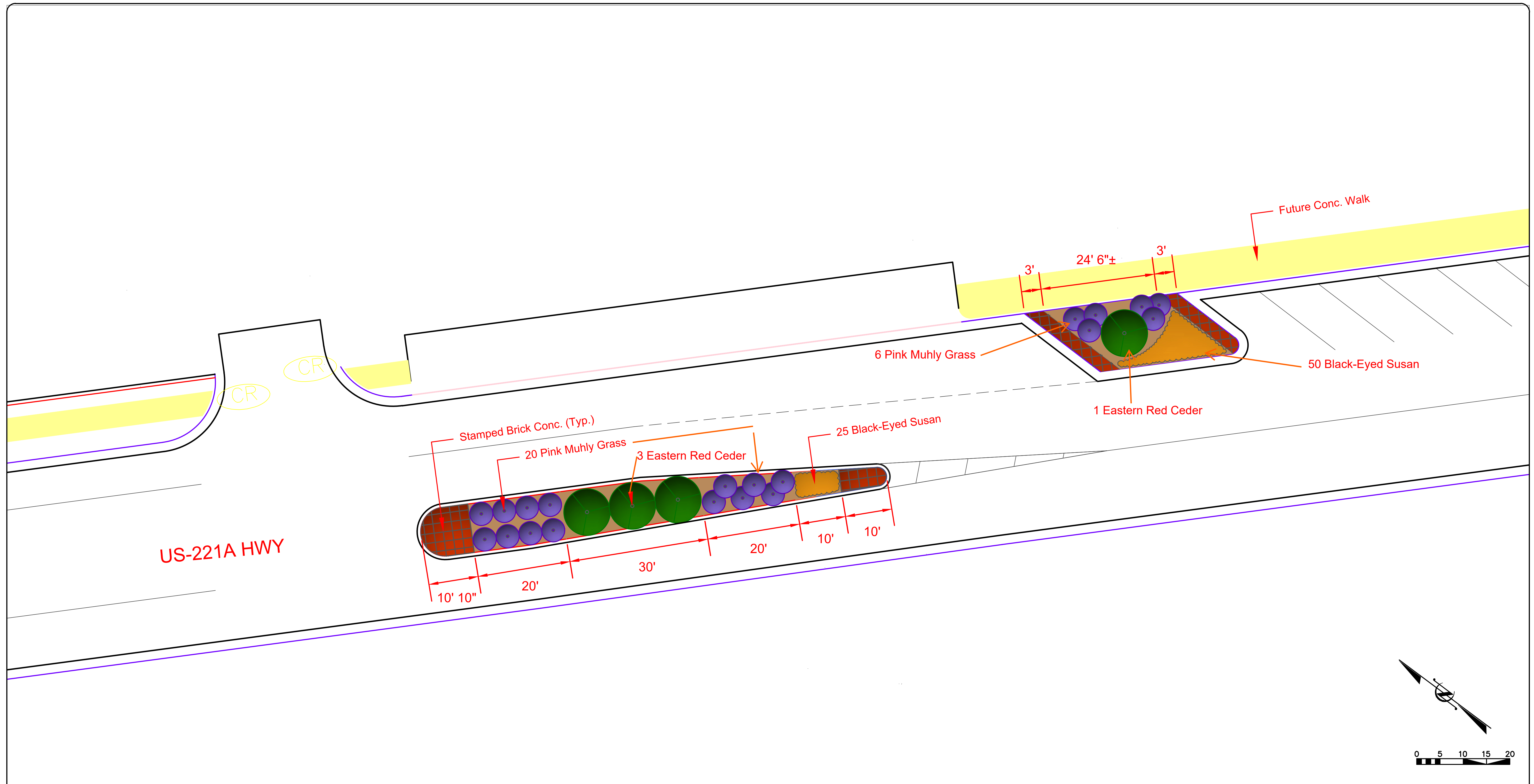
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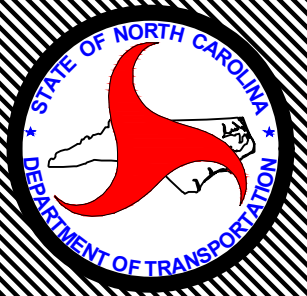
PREL. DESIGN DATE:	4/23/2026
FINAL DESIGN DATE:	4/23/2026
PROJECT DESIGNER:	Azad Atashi
PROJECT TEAM:	A. Sumter & T. Dunston

Section 2 (Area C)
Median Parking Islands
Scale: 1"=30'



T.I.P. #	HL0065
WBS #	-----
FED I.D. #	-----
SHEET NO:	L19
TOTAL SHEET NO:	L26



	NCDOT - ROADSIDE ENVIRONMENTAL UNIT AESTHETIC ENGINEERING SECTION 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557 PH: 919-707-2935 FAX: 919-715-2554 http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/	HL0065: Rutherford US 221A Improvement North Oak St & South Oak St TIP #: HL0065	SHEET DESCRIPTION:	PREL. DESIGN DATE : 4/23/2026	Section 2 (Area C)		T.I.P. # HL0065			
				FINAL DESIGN DATE : 4/23/2026	Detail Layout Plan		WBS # - - - - -			
				PROJECT DESIGNER: Azad Atashi			Scale: 1":20'		FED I.D. # - - - - -	
				PROJECT TEAM: A. Sumter & T. Dunston					SHEET NO : L20 TOTAL SHEET NO : L26	

