

Basis for Engineering Design

DEIS Appendix – L
Volume 3 of 3

Durham-Orange Light Rail Transit Project



February 2015

INDEX OF SHEETS

SHEET	DESCRIPTION	REVISIONS
<u>LIGHT RAIL TRANSIT PLAN SHEETS</u>		
<u>APPENDIX L VOLUMES</u>		
VOLUME 1	UNC HOSPITALS TO PATTERSON PLACE	
VOLUME 2	PATTERSON PLACE TO ALSTON AVENUE	
VOLUME 3	TYPICAL SECTIONS, ROADWAY, STATION, AND ROMF PLANS	
<u>GENERAL DRAWING SHEETS:</u>		
GD - 01	COVER SHEET	
GD - 04	INDEX OF SHEETS (VOLUME 3)	
GD - 05	INDEX OF SHEETS (VOLUME 3)	
GD - 08	PROJECT CORRIDOR MAP	
GD - 09	KEY PLAN SHEET	
<u>TYPICAL SECTIONS</u>		
<u>LRT ILLUSTRATIVE TYPICAL SECTION SHEETS</u>		
TYP - 01	TYPICAL BALLAST, EMBEDDED TRACK, AND RETAINED EARTH SECTIONS	
TYP - 02	TYPICAL AERIAL SECTIONS	
TYP - 03	CUT AND FILL SECTIONS ON I-40, NC-54, AND US 15-501	
TYP - 04	SPECIAL TYPICAL SECTIONS ON US 15-501	
TYP - 05	TYPICAL STREET RUNNING, AND AT-GRADE CENTER PLATFORM STATION SECTIONS	
TYP - 06	AT-GRADE CENTER PLATFORM STATION SECTIONS IN THE MEDIAN	
TYP - 07	AT-GRADE SIDE PLATFORM STATION SECTIONS	
TYP - 08	TYPICAL BALLAST TRACK SECTIONS NEXT TO NCRR	
TYP - 09	TYPICAL EMBEDDED TRACK SECTIONS NEXT TO NCRR	
<u>ROADWAY MODIFICATIONS</u>		
<u>ROADWAY PLANS NOT SHOWN IN CORRIDOR</u>		
RD - 01	LEIGH VILLAGE FUTURE ROADWAY PLAN	
RD - 02	LARCHMONT CONNECTOR	
RD - 03	CAMERON BLVD	
RD - 04	ELBA STREET ROUNDABOUT	

SHEET	DESCRIPTION	REVISIONS
<u>LIGHT RAIL TRANSIT PLAN SHEETS</u>		
<u>STATION /PLATFORM PLANS</u>		
<u>STATION ILLUSTRATIVE PLAN SHEETS</u>		
STA - 01	UNC HOSPITALS STATION	
STA - 02	MASON FARM ROAD STATION	
STA - 03	HAMILTON ROAD STATION - C1, C1A, & C2 ALTERNATIVES	
STA - 04	HAMILTON ROAD STATION - C2A ALTERNATIVE	
STA - 05	FRIDAY CENTER DRIVE STATION - C1 & C1A ALTERNATIVES - LOWER LEVEL	
STA - 06	FRIDAY CENTER DRIVE STATION - C1 & C1A ALTERNATIVES - UPPER LEVEL	
STA - 07	FRIDAY CENTER DRIVE STATION - C2 ALTERNATIVE	
STA - 08	FRIDAY CENTER DRIVE STATION - C2A ALTERNATIVE	
STA - 09	MEADOWMONT LANE STATION - C1 & C1A ALTERNATIVES	
STA - 10	WOODMONT STATION - C2 & C2A ALTERNATIVES	
STA - 11	LEIGH VILLAGE STATION	
STA - 12	GATEWAY STATION	
STA - 13	PATTERSON PLACE STATION - NHC LPA ALTERNATIVE	
STA - 14	PATTERSON PLACE STATION - NHC 1 AND NHC 2 ALTERNATIVES	
STA - 15	MLK JR. PARKWAY STATION - NHC LPA AND NHC 2 ALTERNATIVES	
STA - 16	MLK JR. PARKWAY STATION - NHC 1 ALTERNATIVE	
STA - 17	SOUTH SQUARE STATION - LOWER LEVEL	
STA - 18	SOUTH SQUARE STATION - UPPER LEVEL	
STA - 19	LASALLE STREET STATION	
STA - 20	DUKE /VA MEDICAL CENTER STATION - TRENT /FLOWERS DRIVE ALTERNATIVE	
STA - 21	DUKE /VA MEDICAL CENTER STATION - DUKE EYE CENTER ALTERNATIVE	
STA - 22	NINTH STREET STATION - LOWER LEVEL	
STA - 23	NINTH STREET STATION - UPPER LEVEL	
STA - 24	BUCHANAN BOULEVARD STATION	
STA - 25	DURHAM STATION	
STA - 26	DILLARD STREET STATION	
STA - 27	ALSTON AVENUE STATION	
STA - 28	ALSTON AVENUE STATION	



Prepared in the Office of

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DURHAM-ORANGE CORRIDOR
INDEX OF SHEETS
VOLUME 3

09/08/15

6/11/2015

INDEX OF SHEETS

SHEET	DESCRIPTION	REVISIONS
LIGHT RAIL TRANSIT PLAN SHEETS		
APPENDIX L VOLUMES		
VOLUME 1	UNC HOSPITALS TO PATTERSON PLACE	
VOLUME 2	PATTERSON PLACE TO ALSTON AVENUE	
VOLUME 3	TYPICAL SECTIONS, ROADWAY, STATION, AND ROMF PLANS	
RAIL OPERATIONS MAINTENANCE FACILITY		
ROMF SITE PLAN SHEETS		
DO - 01	LEIGH VILLAGE RAIL OPERATIONS AND MAINTENANCE FACILITY	
DO - 02	FARRINGTON ROAD RAIL OPERATIONS AND MAINTENANCE FACILITY	
DO - 03	PATTERSON PLACE RAIL OPERATIONS AND MAINTENANCE FACILITY	
DO - 04	CORNWALLIS ROAD RAIL OPERATIONS AND MAINTENANCE FACILITY	
DO - 05	ALSTON AVENUE RAIL OPERATIONS AND MAINTENANCE FACILITY	
ROMF BUILDING PLANS		
AR - 07	RAIL OPERATIONS MAINTENANCE FACILITY OVERALL FLOOR PLAN - GROUND	
AR - 13	RAIL OPERATIONS MAINTENANCE FACILITY OVERALL FLOOR PLAN - MEZZANINE	
AR - 17	RAIL OPERATIONS MAINTENANCE FACILITY BUILDING ELEVATION - NORTH	
AR - 18	RAIL OPERATIONS MAINTENANCE FACILITY BUILDING ELEVATION - EAST	
AR - 19	RAIL OPERATIONS MAINTENANCE FACILITY BUILDING ELEVATION - SOUTH	
AR - 20	RAIL OPERATIONS MAINTENANCE FACILITY BUILDING ELEVATION - WEST	



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**DURHAM-ORANGE CORRIDOR
INDEX OF SHEETS
VOLUME 3**

DWG: INDEX

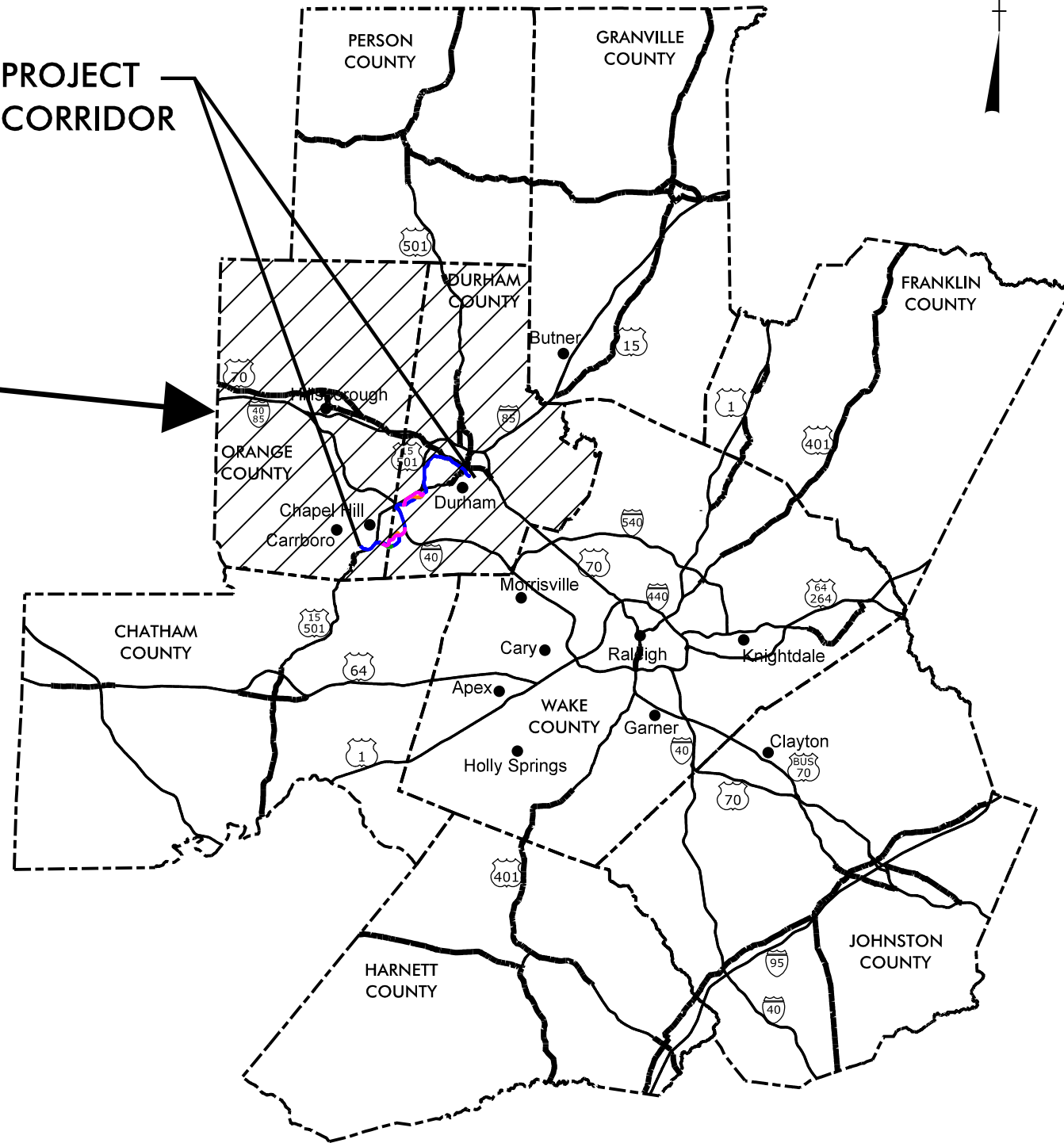
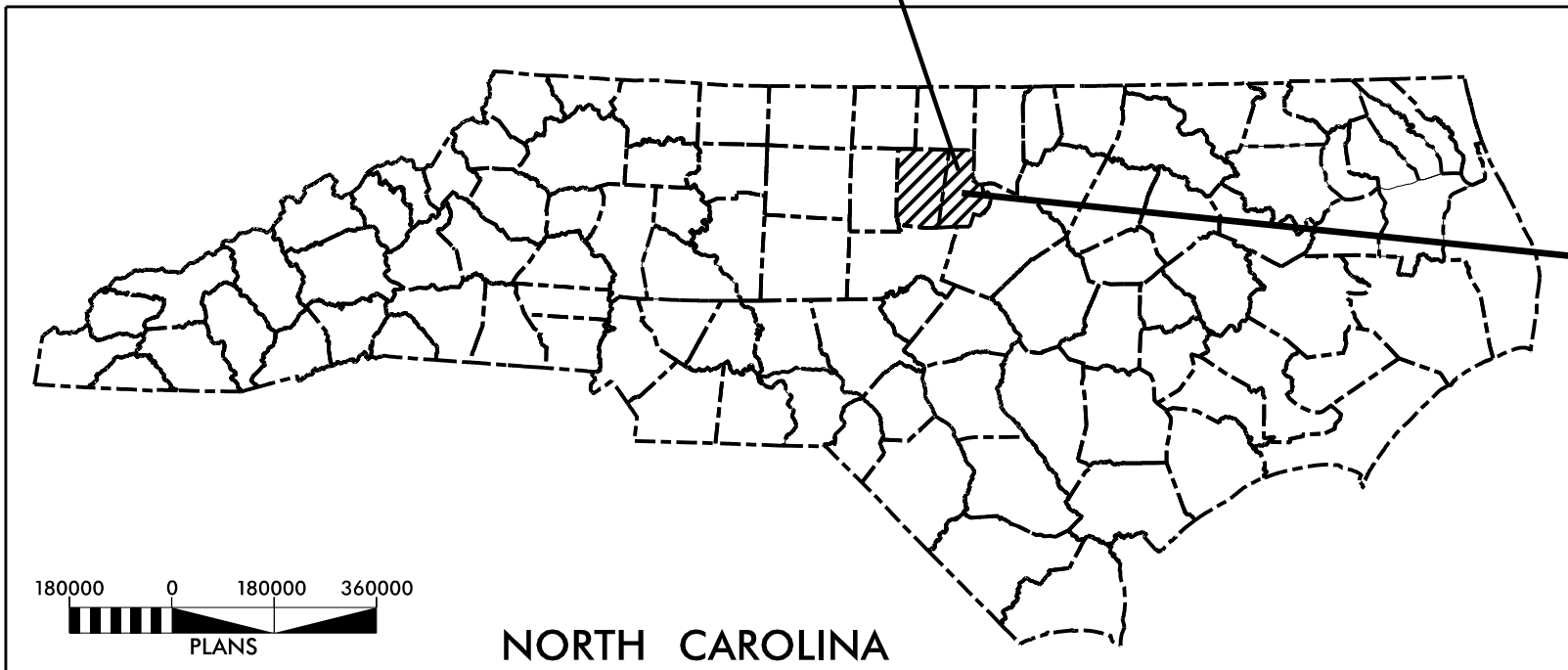
SHEET: GD - 05

LOCATION MAP



PROJECT LOCATION

PROJECT CORRIDOR



GRAPHIC SCALES



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NC LICENSE #P-0189

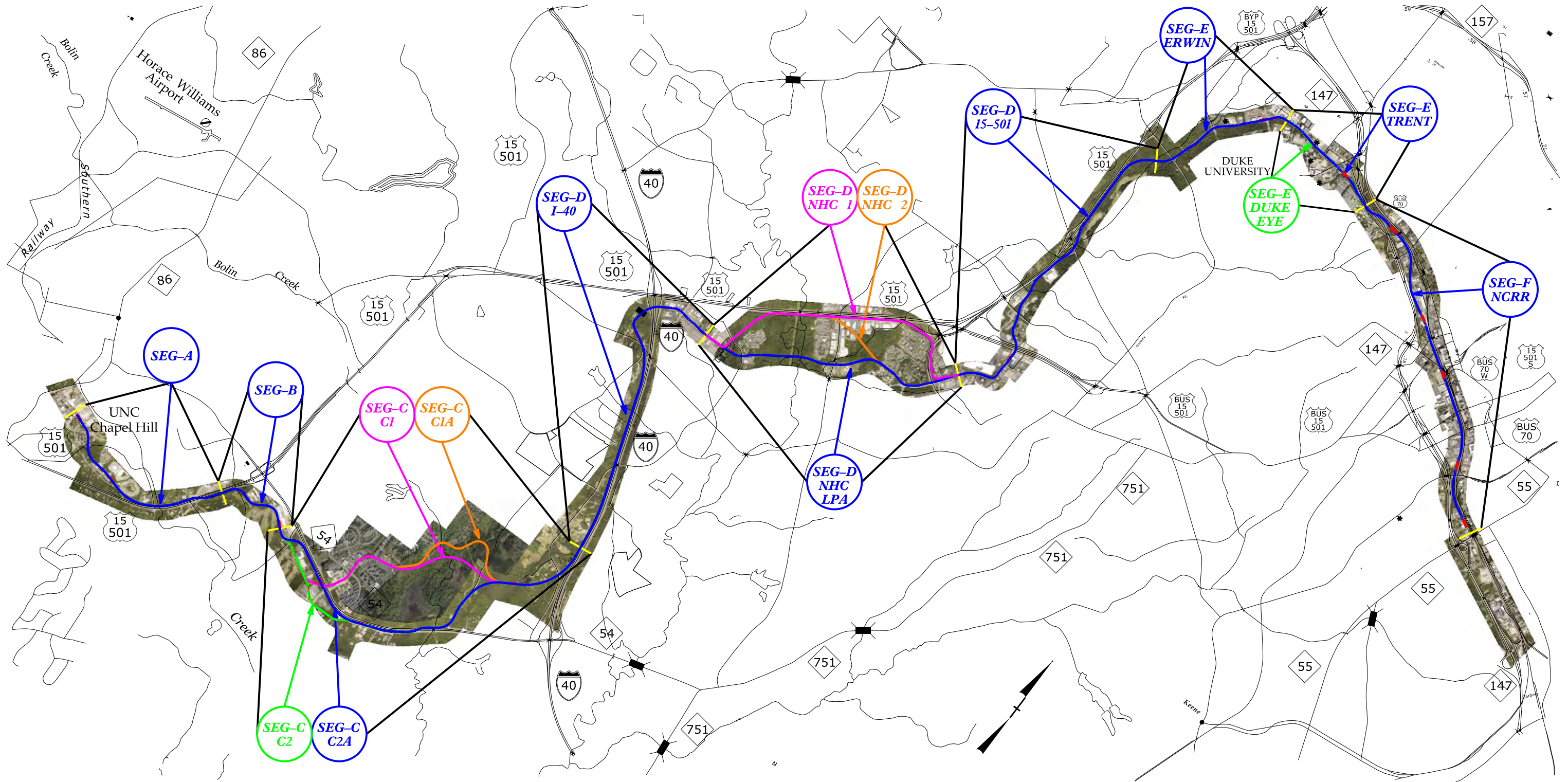
UNC HOSPITALS TO ALSTON AVE

**DURHAM-ORANGE CORRIDOR
PROJECT CORRIDOR MAP**

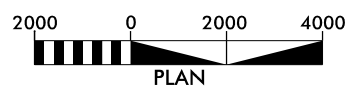
**DWG: LOCATION
MAP**

SHEET: GD - 08

DURHAM-ORANGE LIGHT RAIL ALIGNMENT ALTERNATIVES



GRAPHIC SCALES



CONCEPT PLANS ONLY
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

LEGEND

- SEG-A, SEG-B, C2A, I-40, LPA, ERWIN, TRENT, AND NCRR
- ALT. C1 AND ALT. NHC 1
- ALT. C1A AND ALT. NHC 2
- ALT. C2 AND DUKE EYE
- STATION



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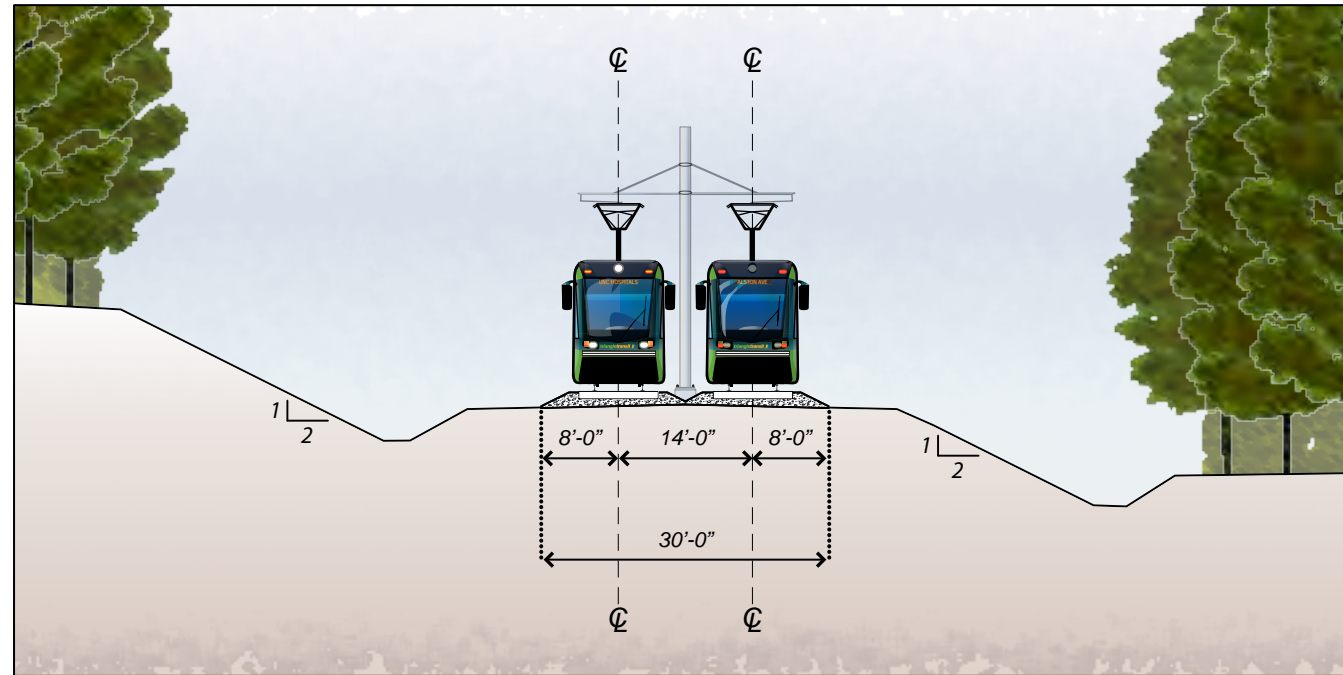
KEY PLAN

DWG: PLAN

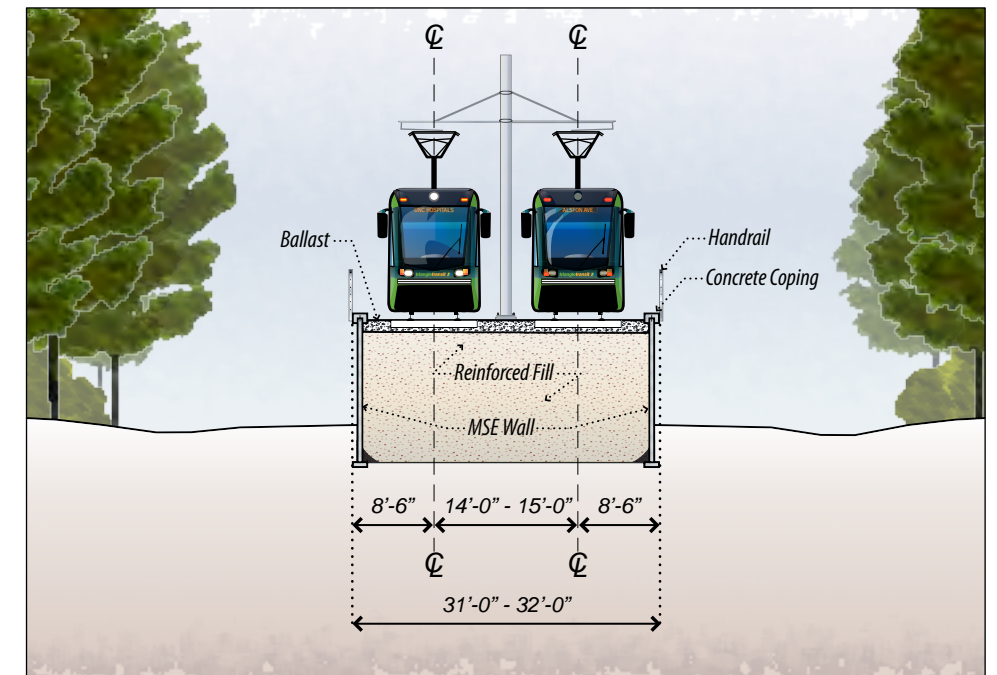
SHEET:
GD - 09

TYPICAL SECTIONS

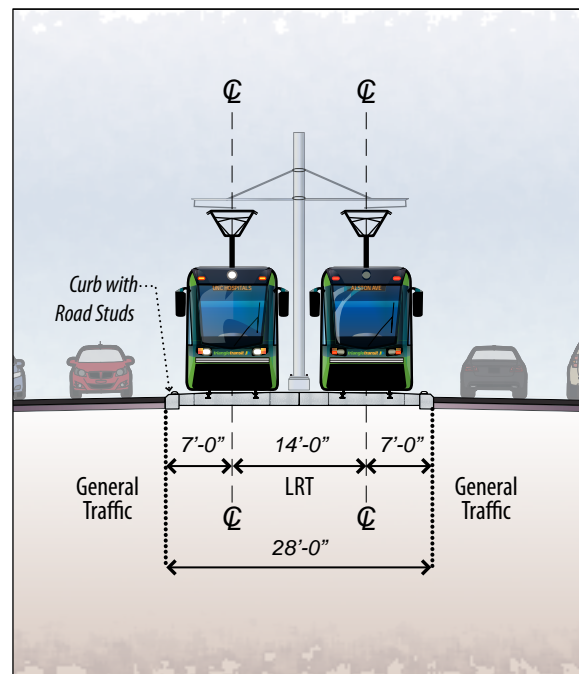
Section 01
Ballast Track
(Typical Cut
Condition at
Left and Typical
Fill Condition at
Right)



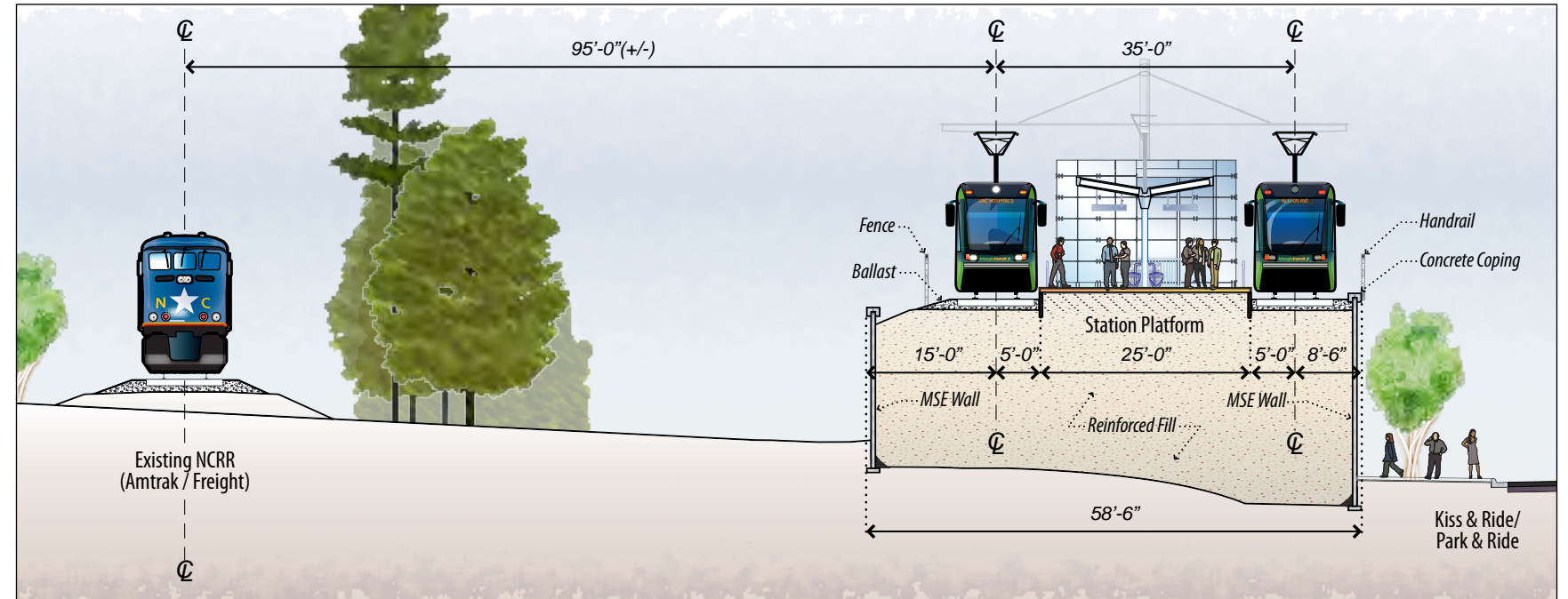
Section 03
Retained Earth



Section 02
Embedded Track



Section 04
25-foot Wide
Center Platform
at Retained
Earth Station
(Ninth Street
Station)



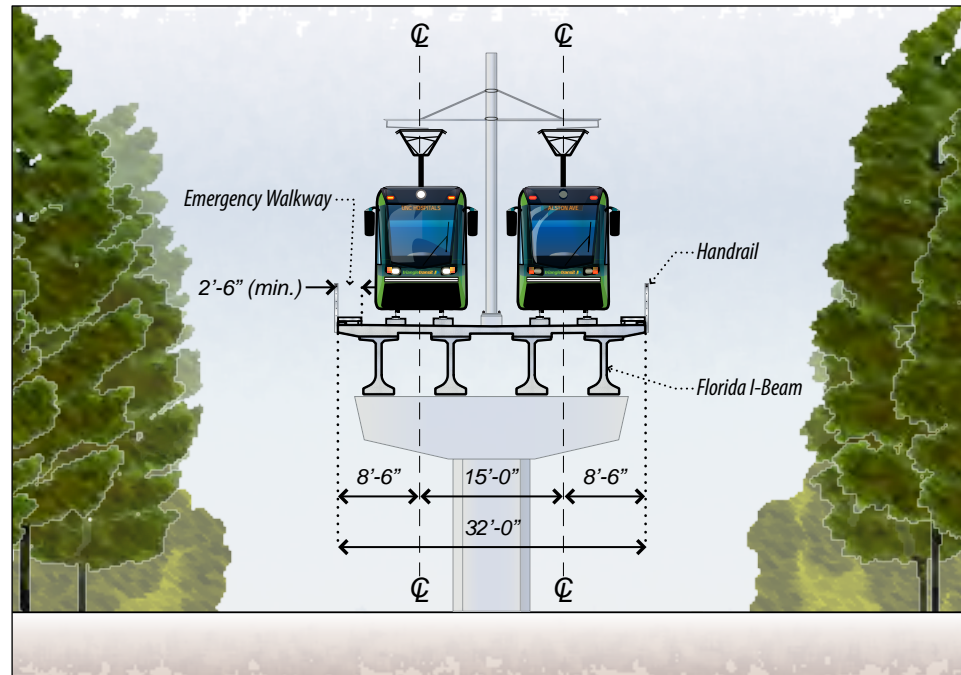
**neighboring
concepts**

1230 West Morehead Street, Suite 204
Charlotte, North Carolina 28208
T:704.374.0916 F:704.342.3808

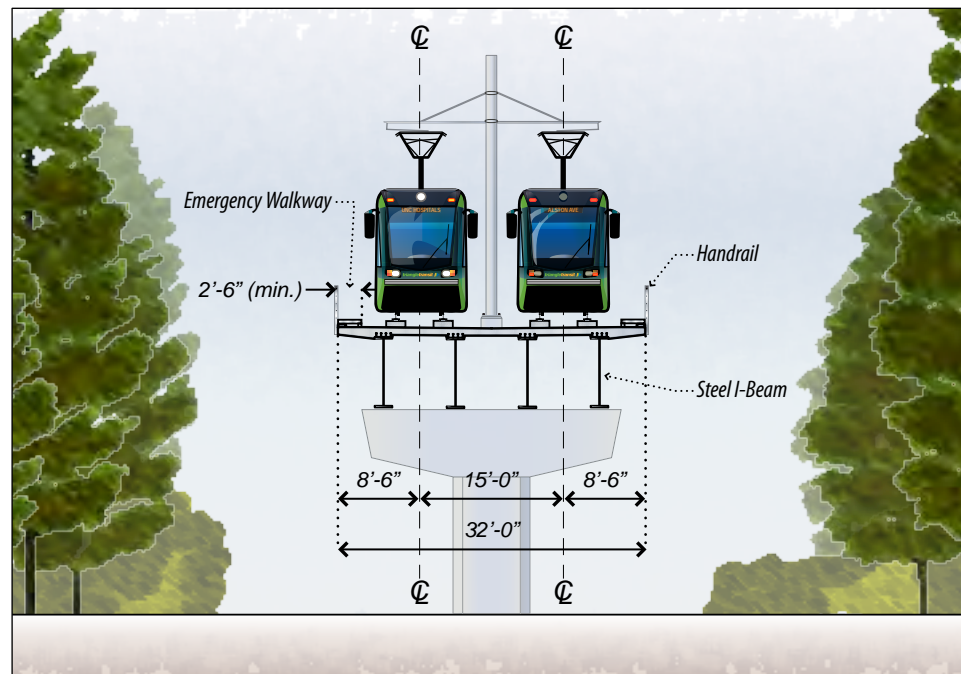
Durham-Orange Light Rail Project
01 - TYPICAL BALLAST SECTION
02 - TYPICAL EMBEDDED TRACK SECTION
03, 04 - TYPICAL RETAINED EARTH SECTIONS

SHEET: TYP - 01

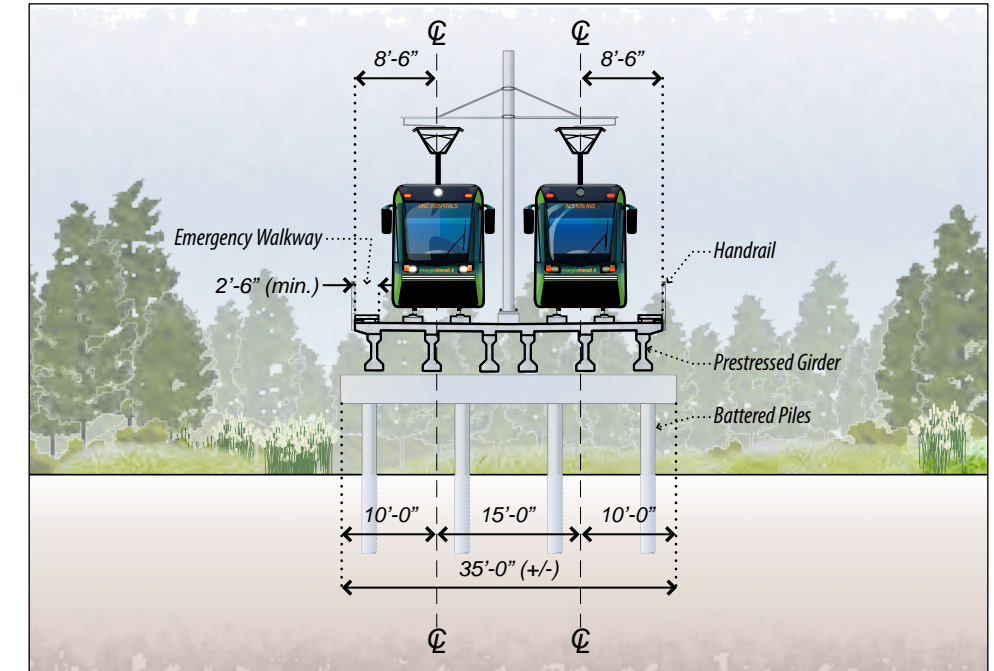
Section 05
Short-Span
Aerial



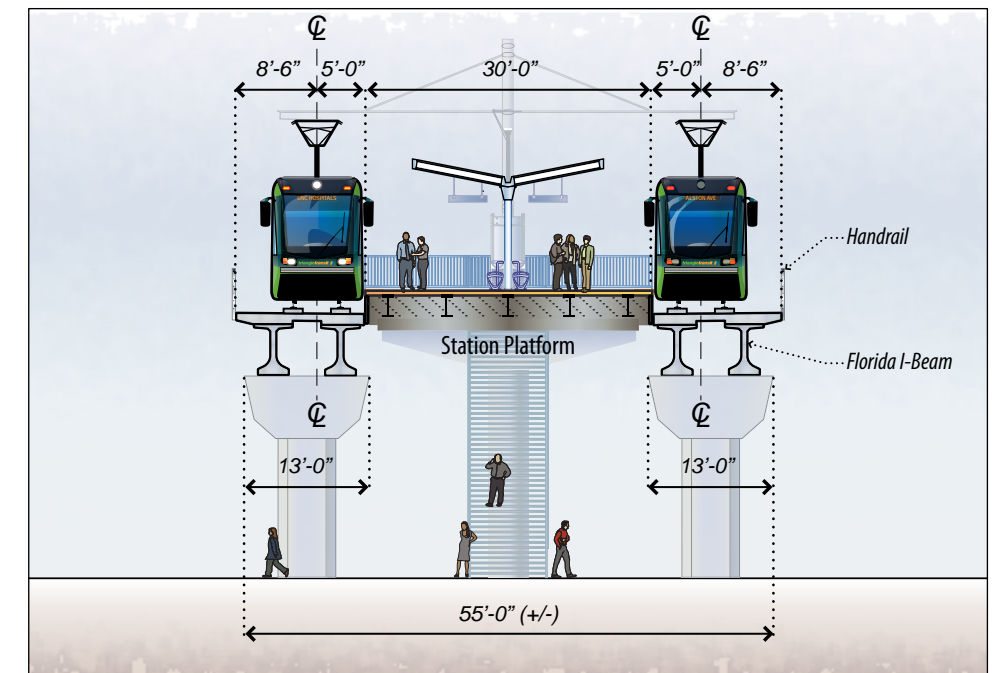
Section 06
Long-Span
Aerial



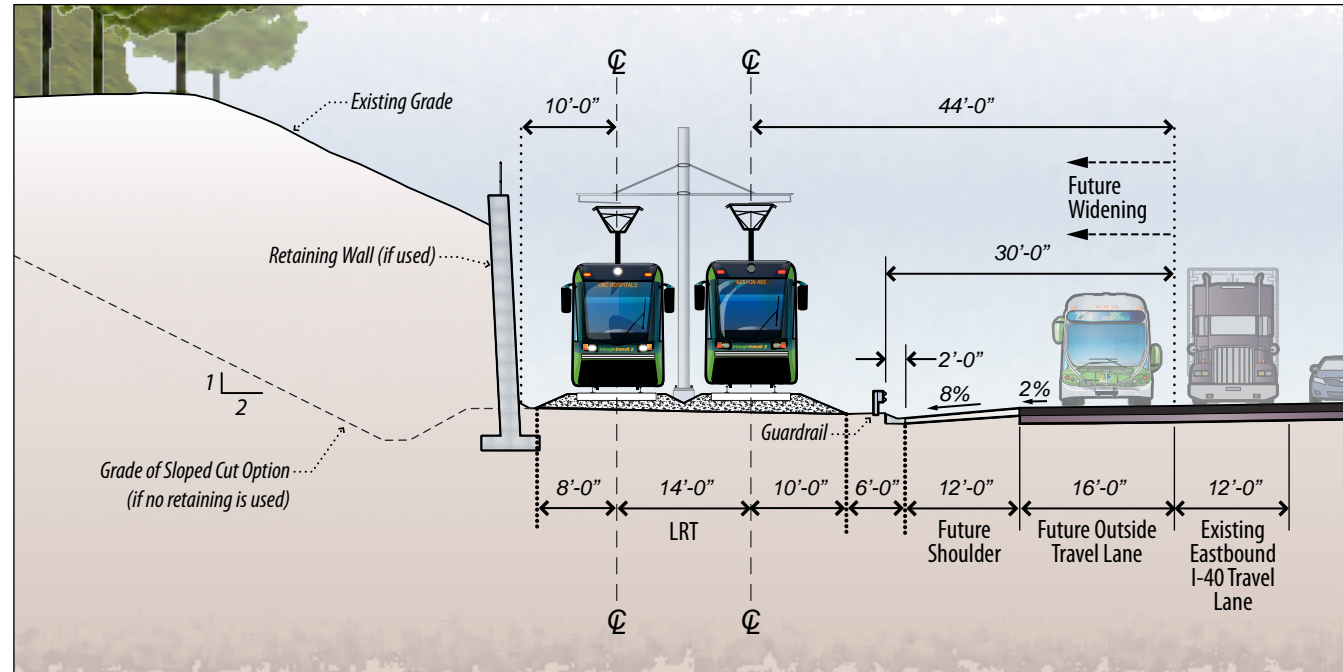
Section 07
Aerial Over
Floodplain/
Wetlands



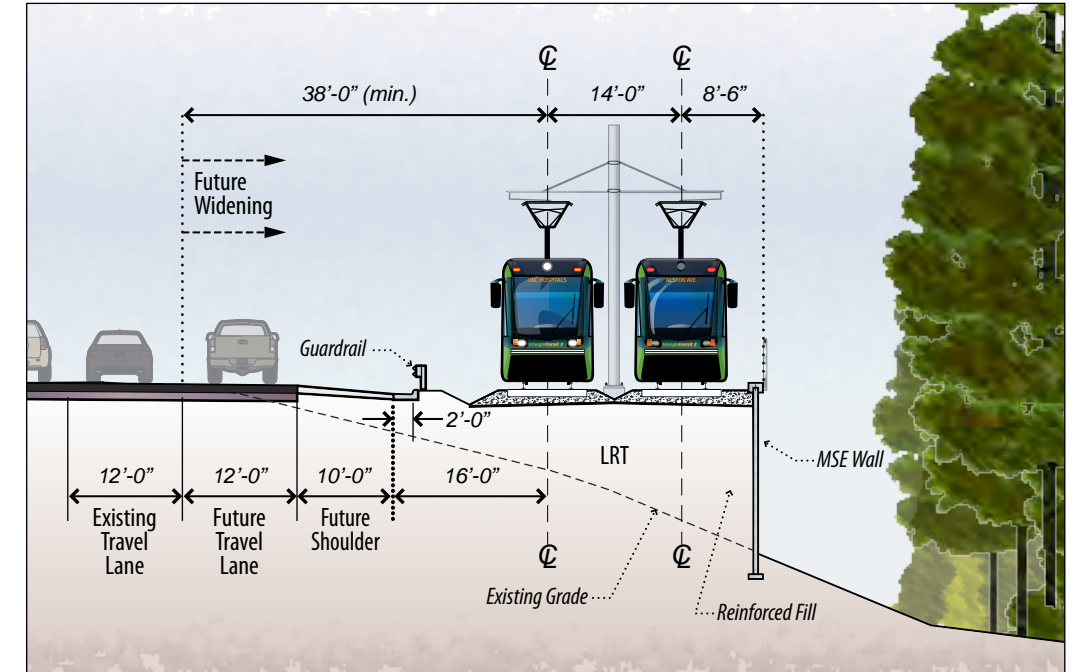
Section 08
30-foot Wide
Center Platform
at Elevated
Station (South
Square Station)



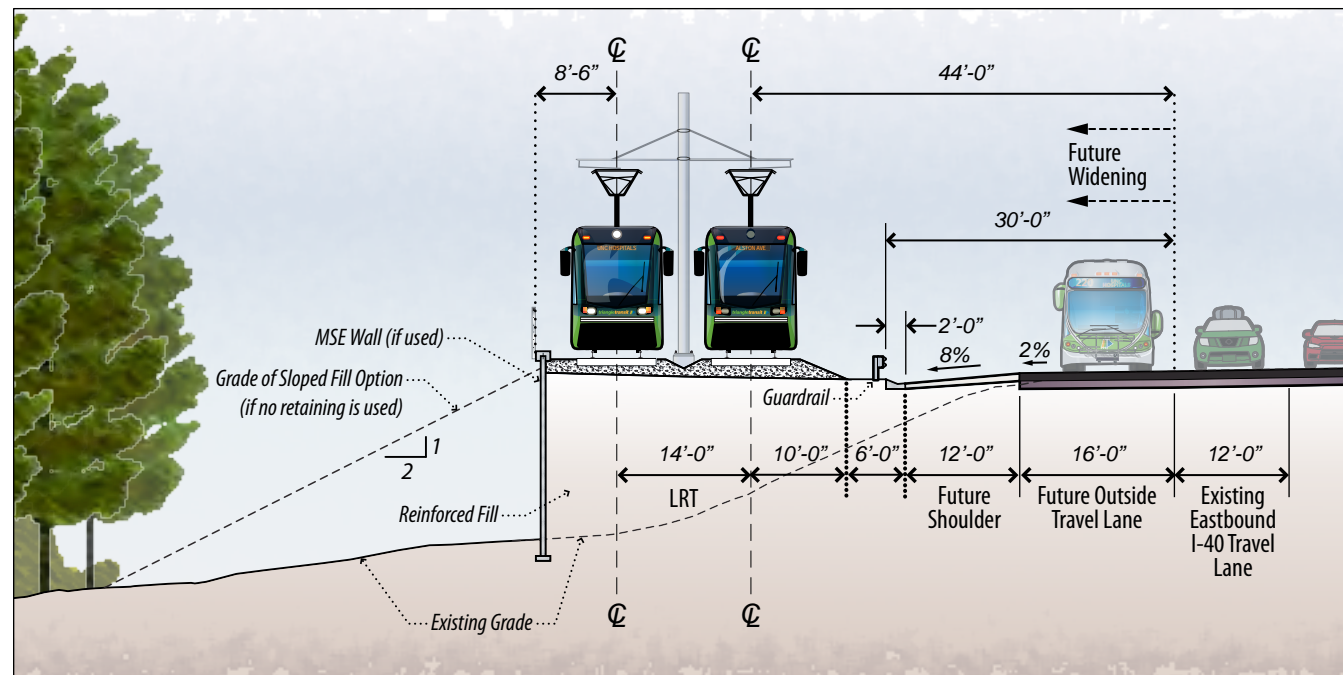
Section 09
LRT adjacent to I-40 with additional Outside East-Bound Lane Widening at the Deepest Cut Instance



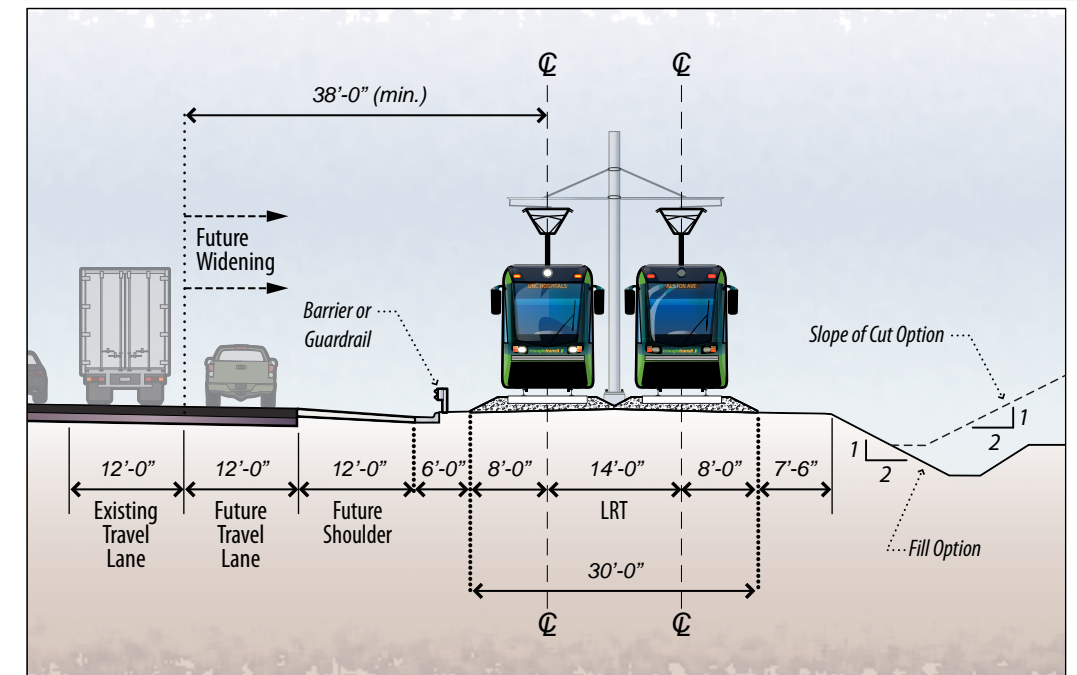
Section 11
LRT with Retained Fill adjacent to NC-54 (East of Fordham Blvd.) and US 15-501 (North of Cornwallis Rd.) with additional Outside North-Bound Lane Widening



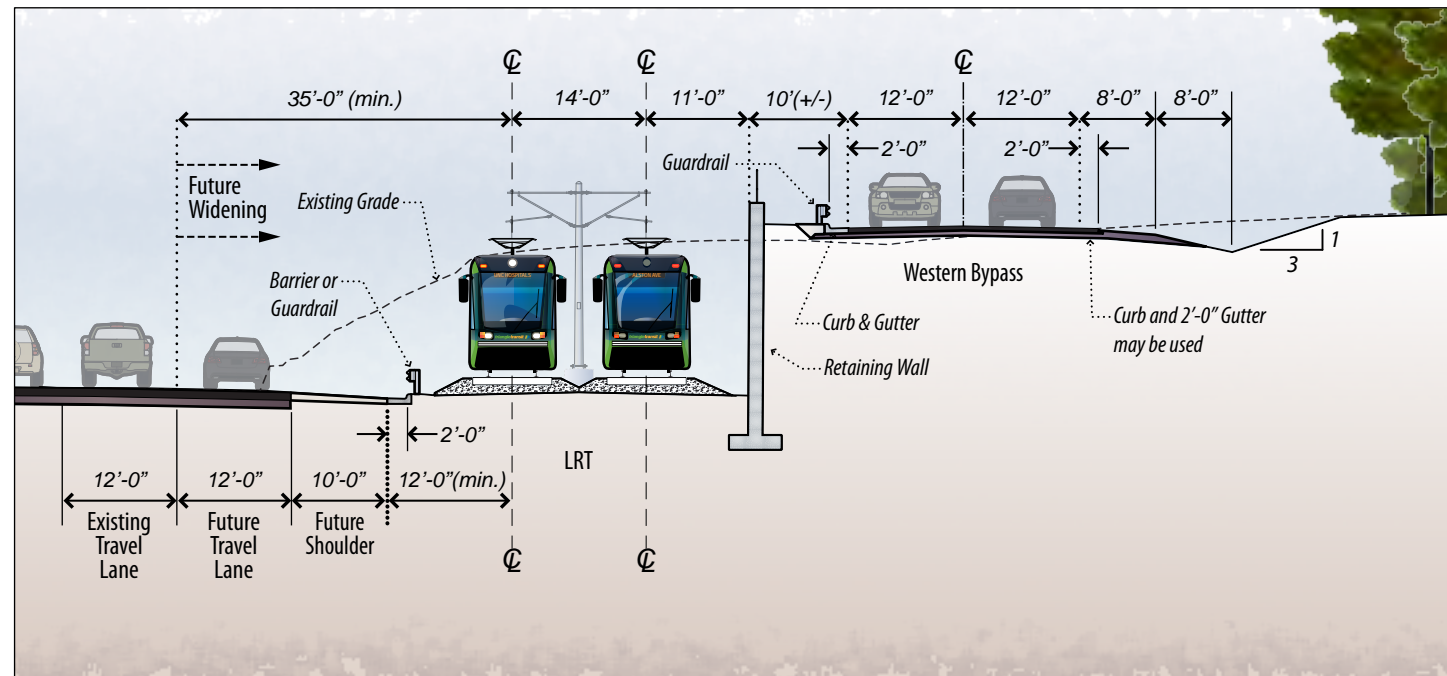
Section 10
LRT adjacent to I-40 with additional Outside East-Bound Lane Widening in a Typical Fill Condition



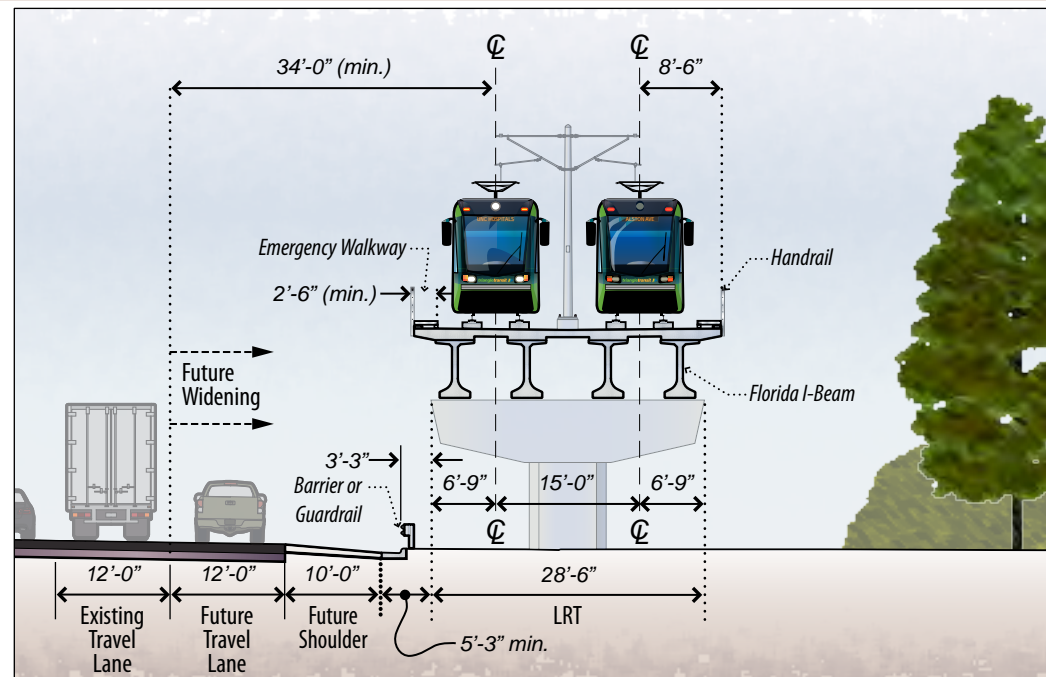
Section 11-A
LRT At-grade adjacent to US 15-501 (North of Cornwallis Rd. and NC-54) with additional Outside North-Bound Lane Widening



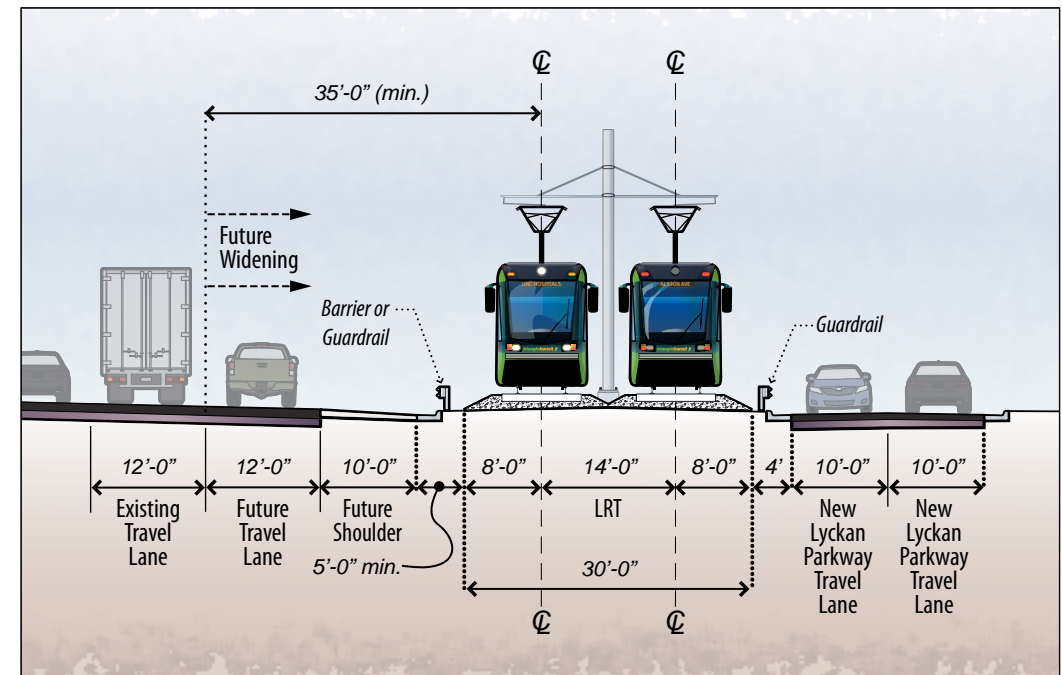
Section 12
 LRT with Cut Slope
 and Retaining Wall
 adjacent to
 US 15-501 (North
 of Cornwallis
 Rd. adjacent to
 relocated Western
 Bypass) with
 additional Outside
 North-Bound Lane
 Widening



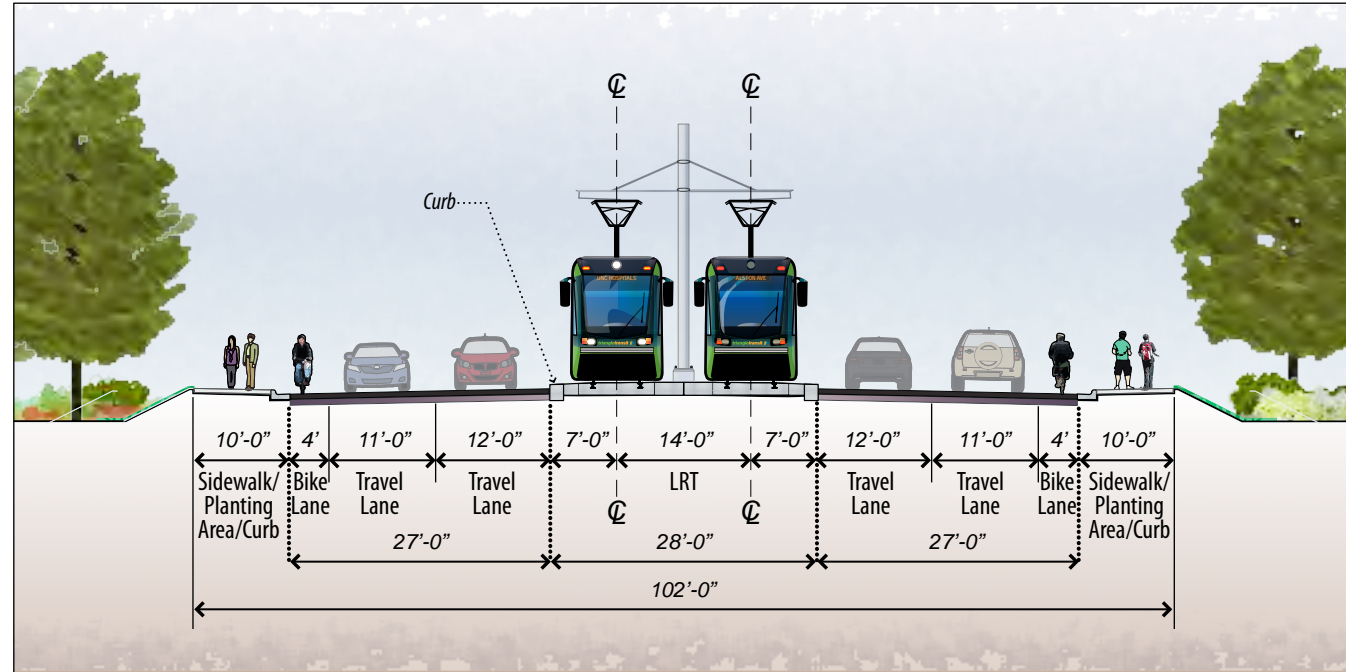
Section 13
 LRT Aerial
 adjacent to US
 15-501 (South
 and North of
 Garrett Rd.) with
 additional Outside
 North-Bound Lane
 Widening



Section 14
 LRT At-grade
 adjacent to US
 15-501 and
 realigned Lyckan
 Parkway (NCH-1
 Alternative, North
 of Garrett Road)
 with additional
 Outside North-
 Bound Lane
 Widening

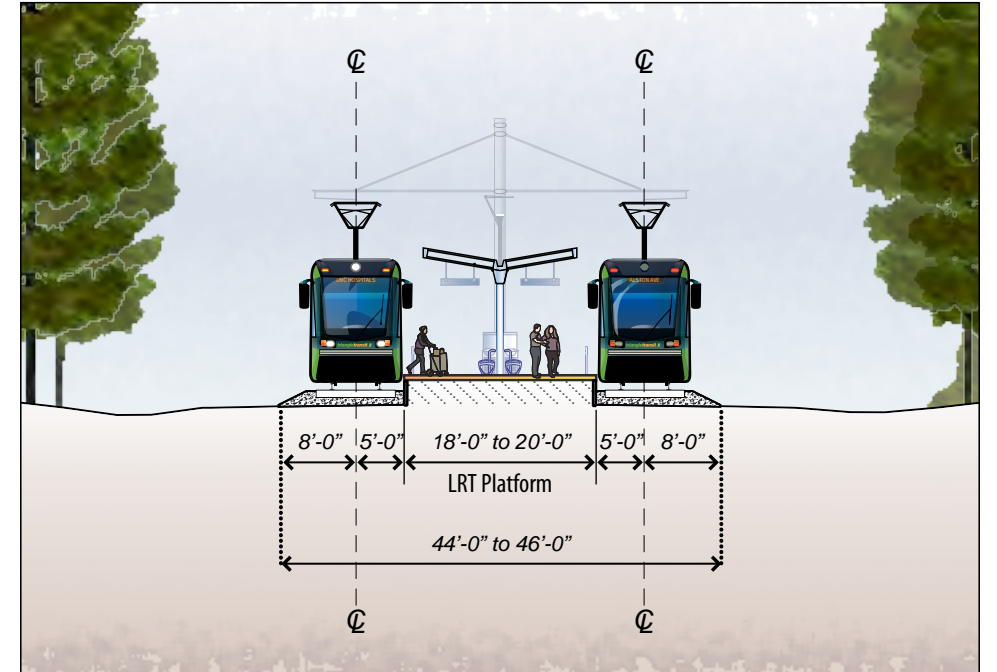


Section 15
University Drive
Minimum
Section

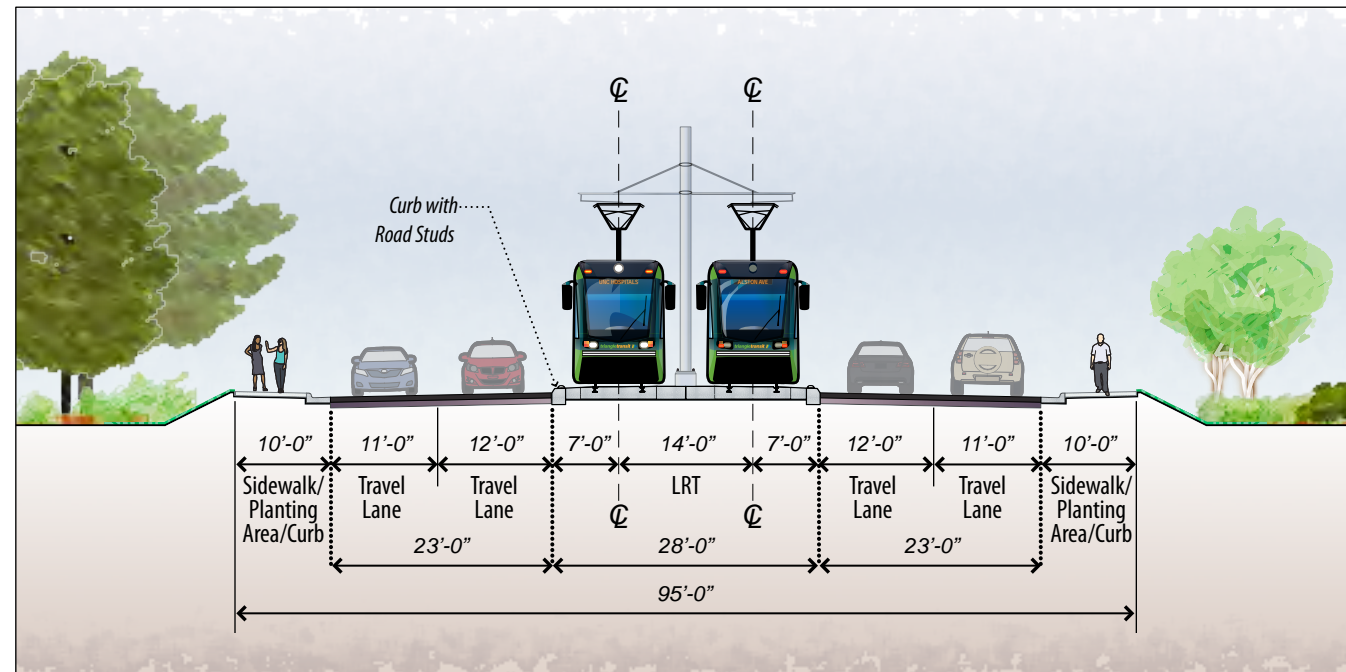


Section 17
Center Platform
with Ballast
Track

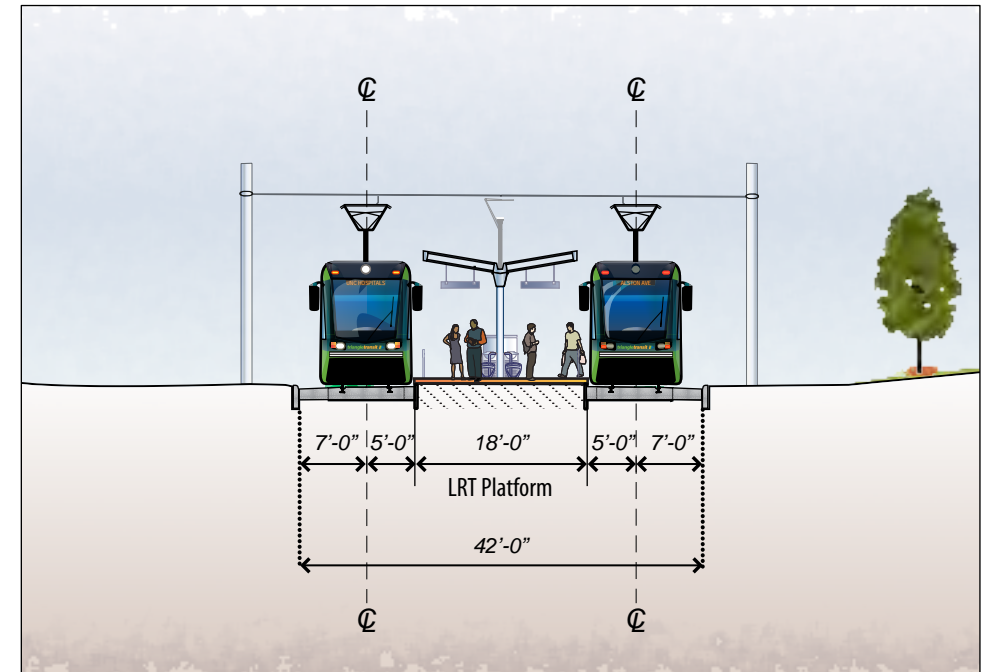
Note:
20'-0" Wide
Center Platform
typical; 18'-0"
Wide Center
Platform is used
at Buchanan,
Dillard, and
Alston Stations



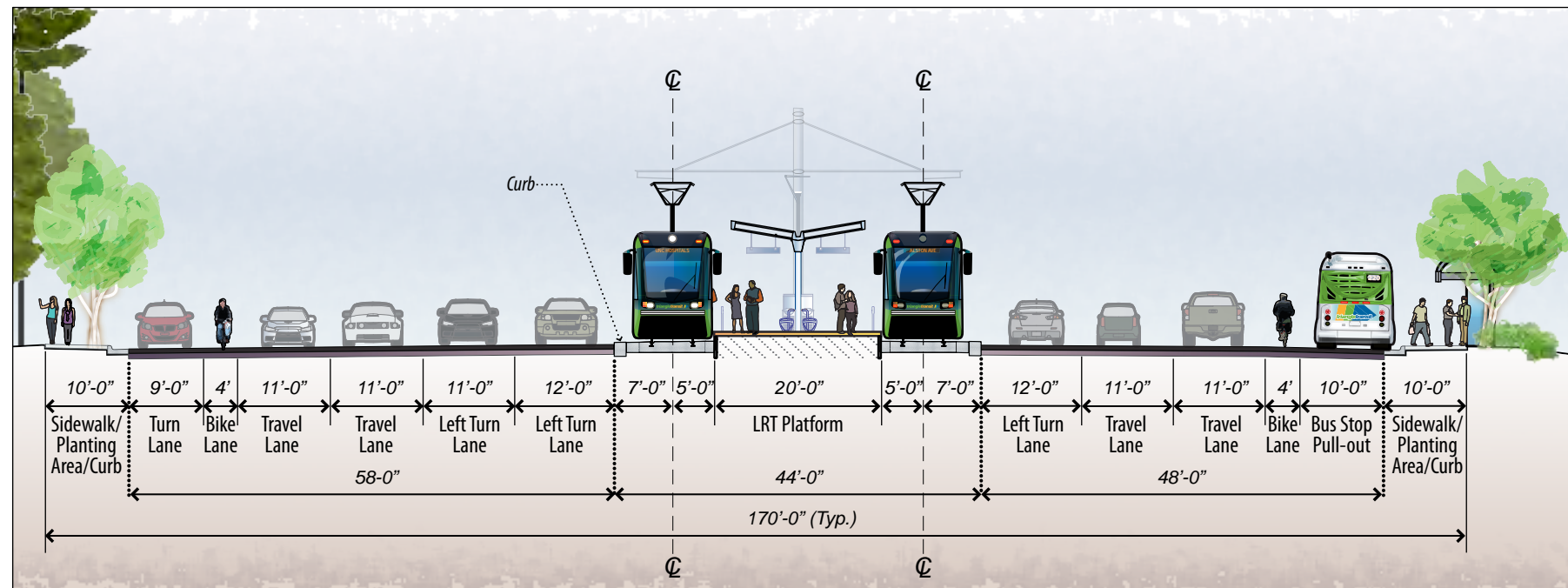
Section 16
Erwin Road
Minimum
Section



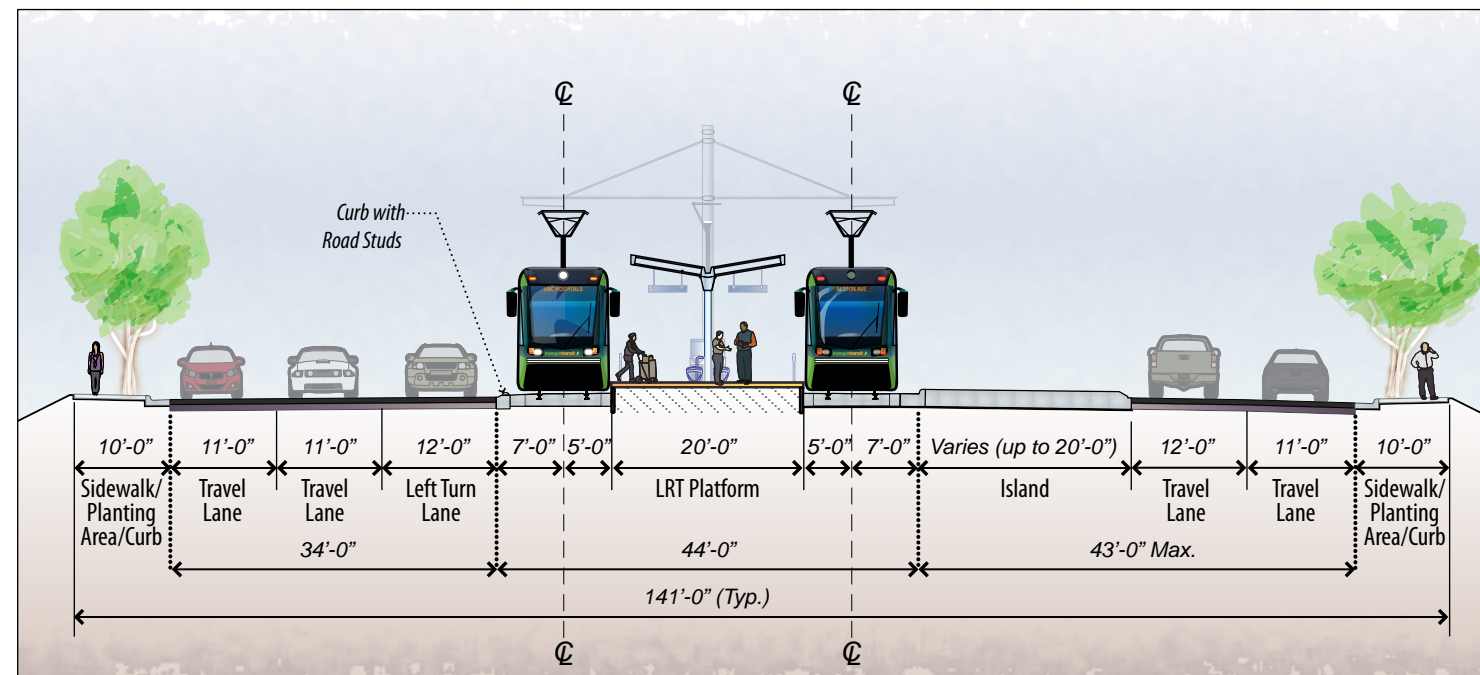
Section 17-A
Center Platform
with Embedded
Track (Durham
Station)



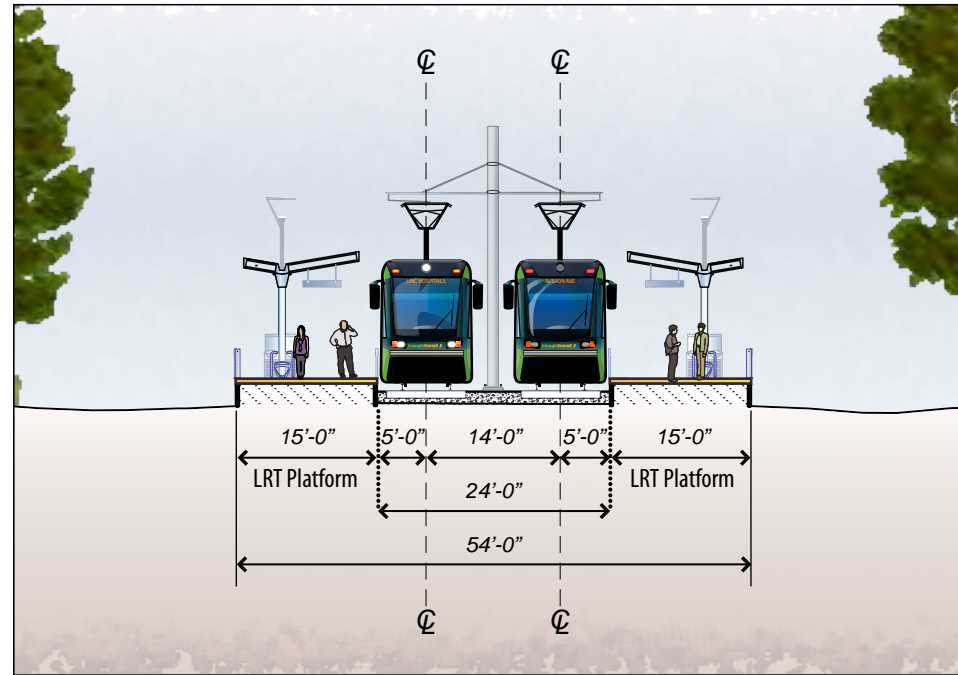
Section 17-B
Center Platform
with Embedded
Track
on University
Drive Median
(MLK Jr.
Parkway Station)



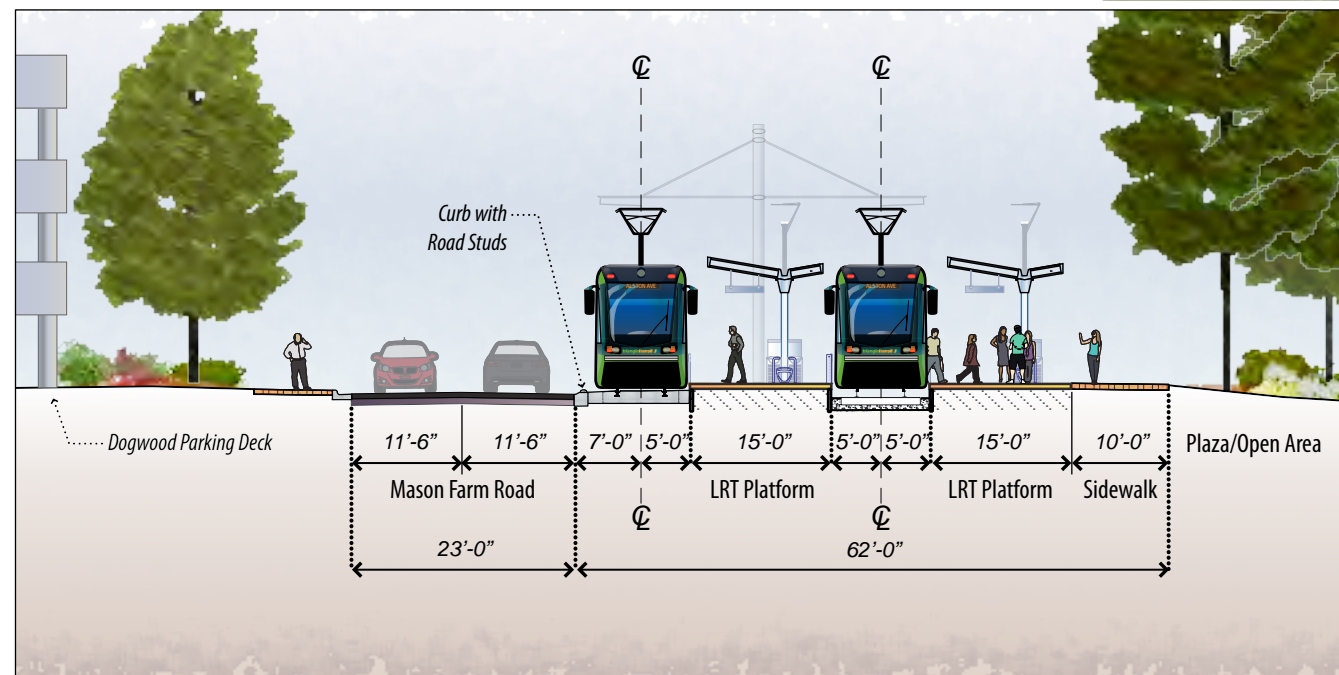
Section 17-C
Center Platform
with Embedded
Track
on Erwin Road
Median (Trent
Drive Station)



Section 18
 15-foot Wide
 Side Platform



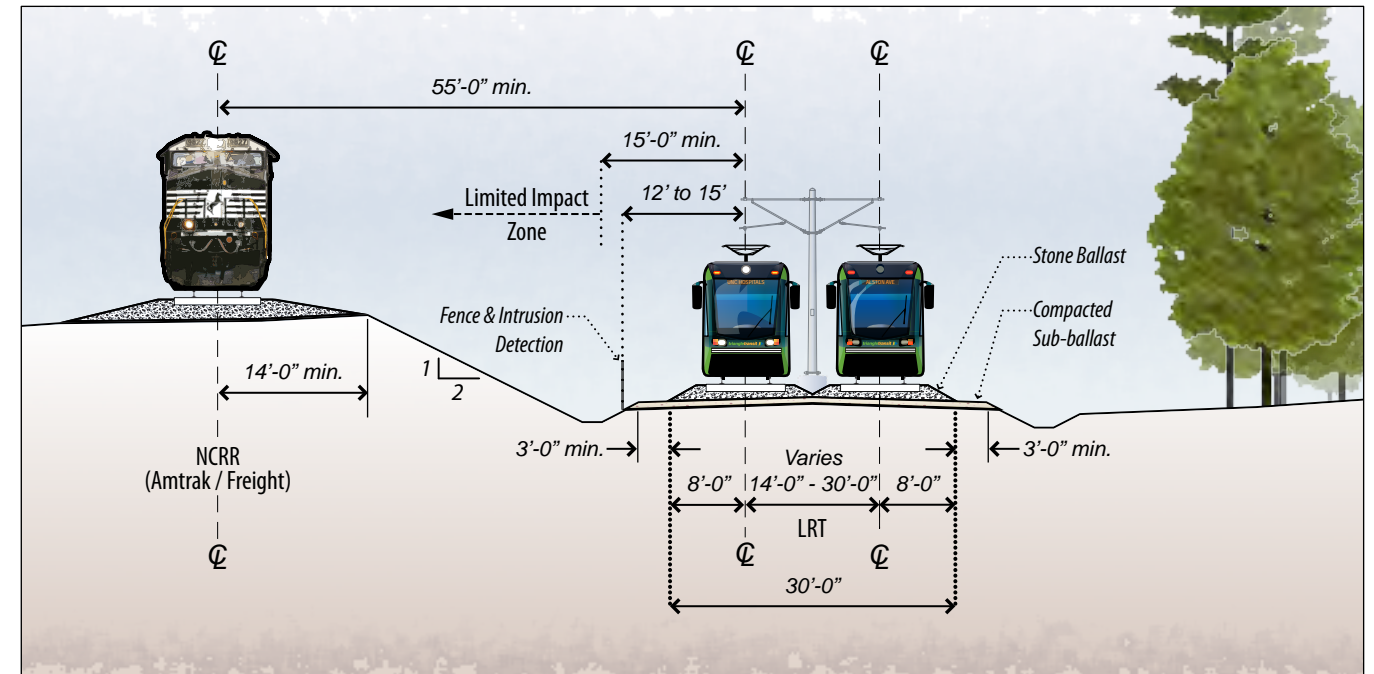
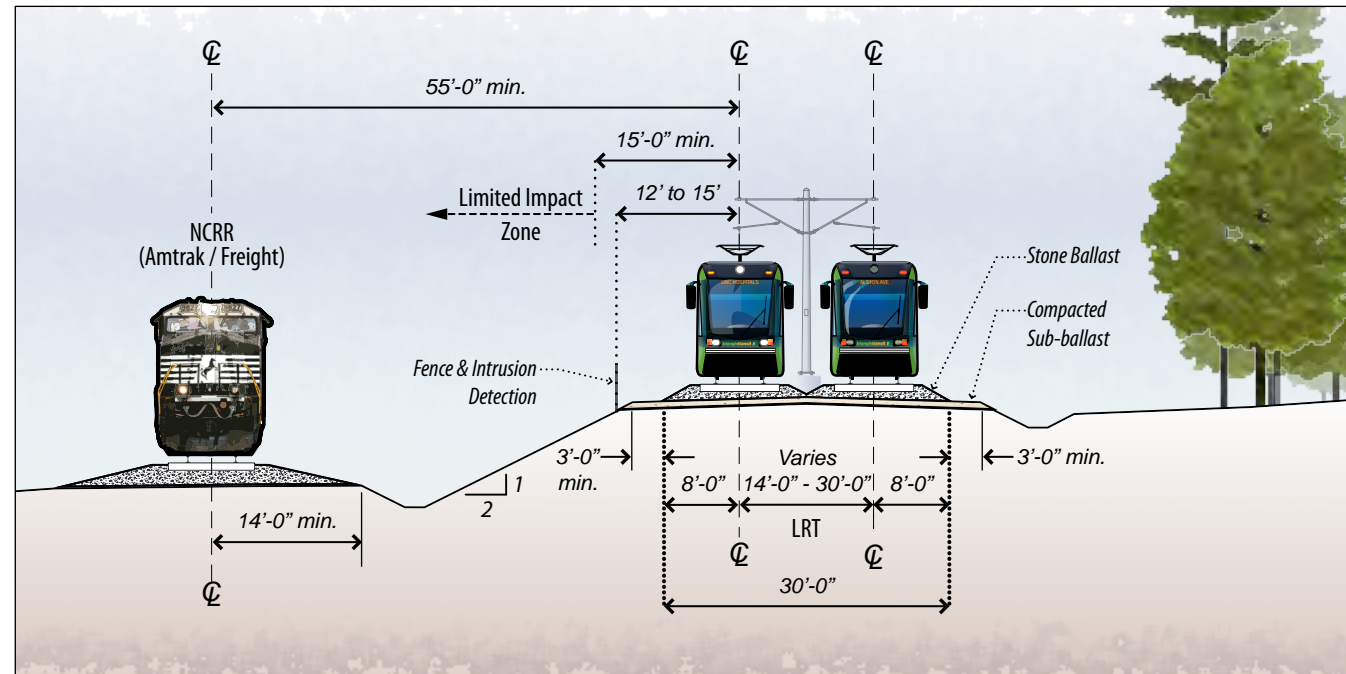
Section 19
 15-foot Wide
 Platforms at
 Terminal Double
 Sided Station
 (UNC Hospitals
 Station)



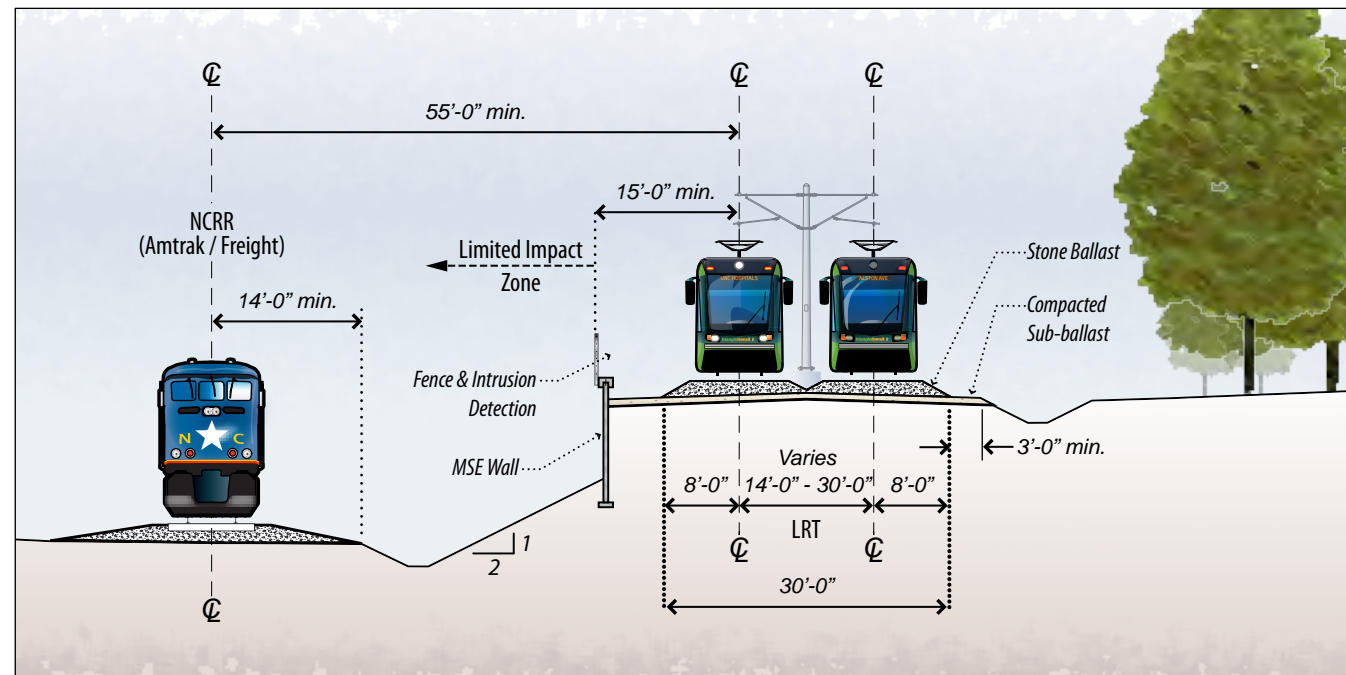
Section 20
Ballast Track
Adjacent to
NCRR

Fill Condition
shown near right

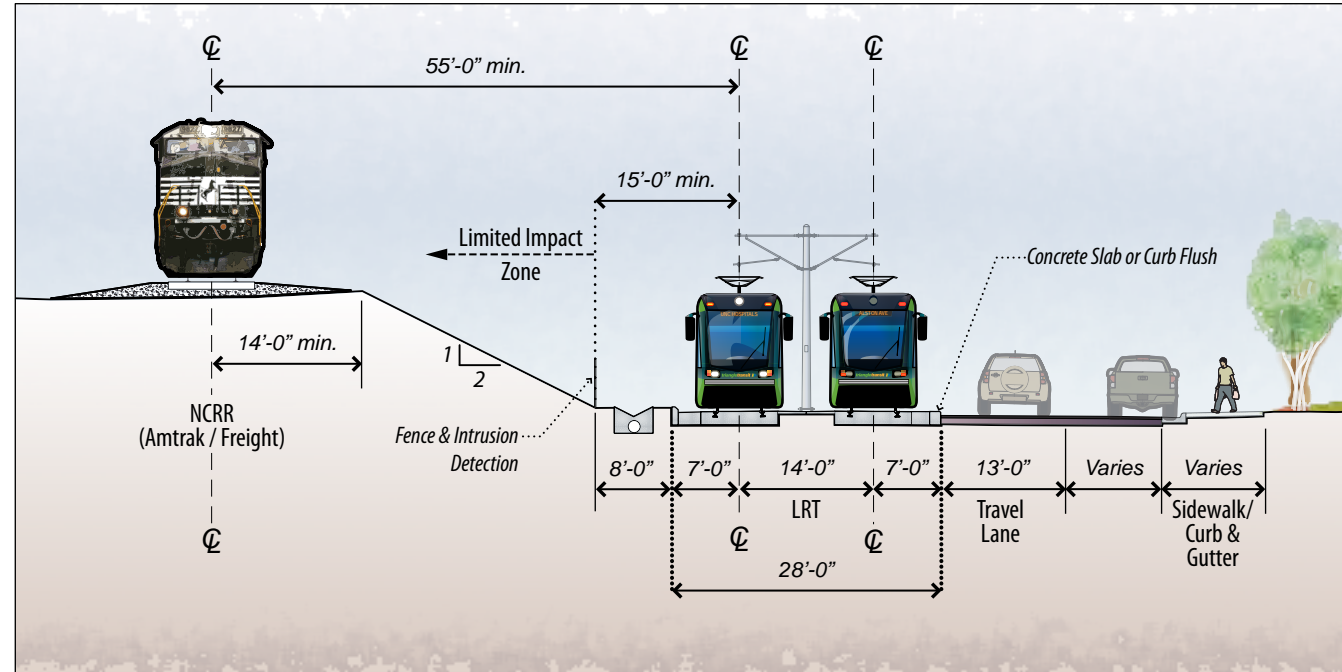
Cut Condition
shown at far right



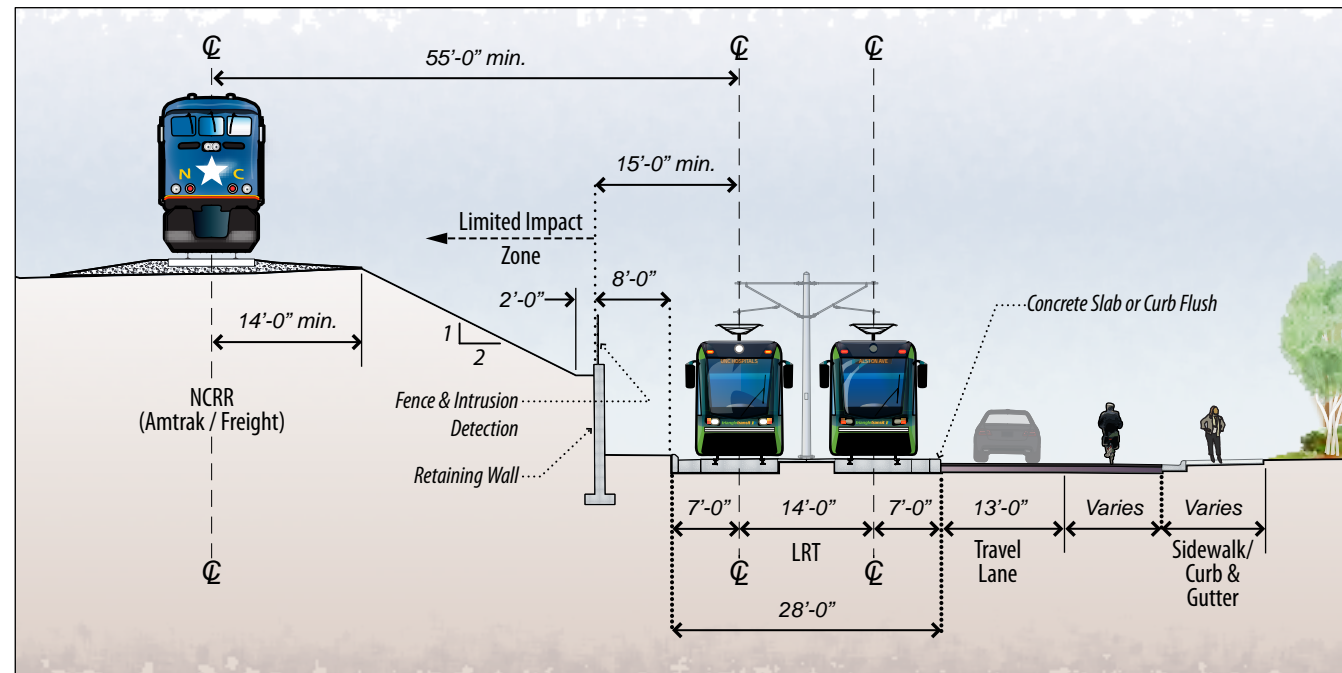
Section 21
Ballast Track
Adjacent to
NCRR - Fill
Condition with
Retaining Wall



Section 22
 Embedded
 Track Adjacent
 to NCRR - Cut
 Condition



Section 23
 Embedded
 Track Adjacent
 to NCRR - Cut
 Condition with
 Retaining Wall



ROADWAY MODIFICATIONS

LEIGH VILLAGE FUTURE ROADWAY PLAN



GRAPHIC SCALES



CONCEPT PLANS ONLY
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

LEGEND

- BRIDGE PIERS
- AT-GRADE TRK
- ELEVATED TRK
- WETLANDS
- STATION



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PLAN

SEGMENT C

LEIGH VILLAGE FUTURE ROADWAY PLAN

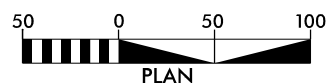
DWG: PLAN

SHEET:
RD - 01

LARCHMONT CONNECTOR



GRAPHIC SCALES



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INCOMPLETE PLANS
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LEGEND

- BRIDGE PIERS
- AT-GRADE TRK
- ELEVATED TRK
- WETLANDS
- █ STATION



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PLAN

SEGMENT D
LARCHMONT CONNECTOR

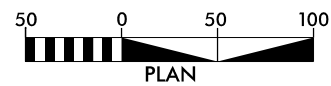
DWG: PLAN

SHEET:
RD - 02

CAMERON BLVD



GRAPHIC SCALES



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DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

LEGEND

- BRIDGE PIERS
- AT-GRADE TRK
- ELEVATED TRK
- WETLANDS
- STATION



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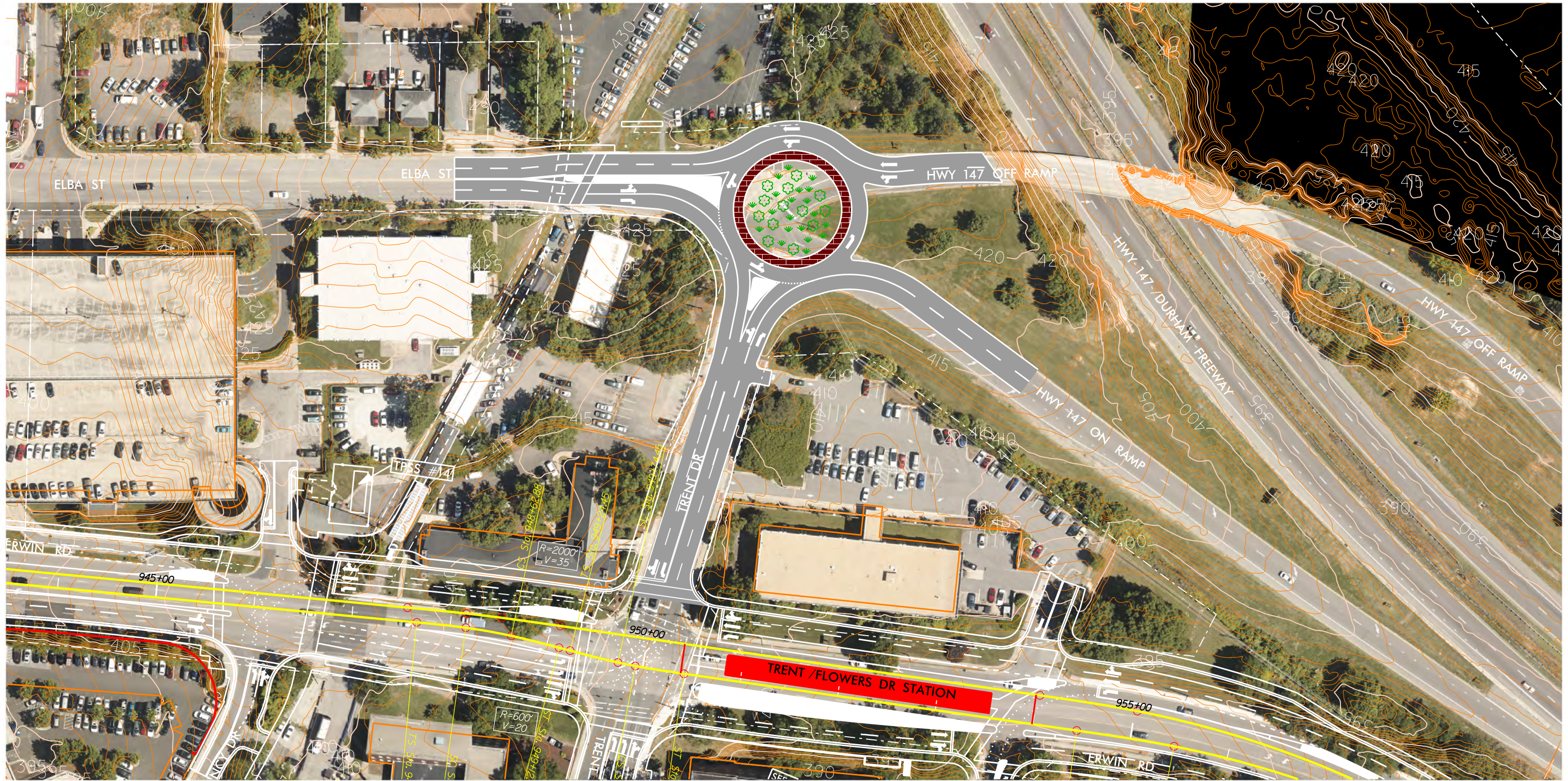
3220 GLEN ROYAL RD. RALEIGH, NC 27617
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NC LICENSE #P-0189

PLAN
SEGMENT E
CAMERON BLVD

DWG: PLAN

SHEET:
RD - 03

ELBA STREET ROUNDABOUT



GRAPHIC SCALES



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LEGEND

- BRIDGE PIERS
- AT-GRADE TRK
- ELEVATED TRK
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- STATION



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PLAN

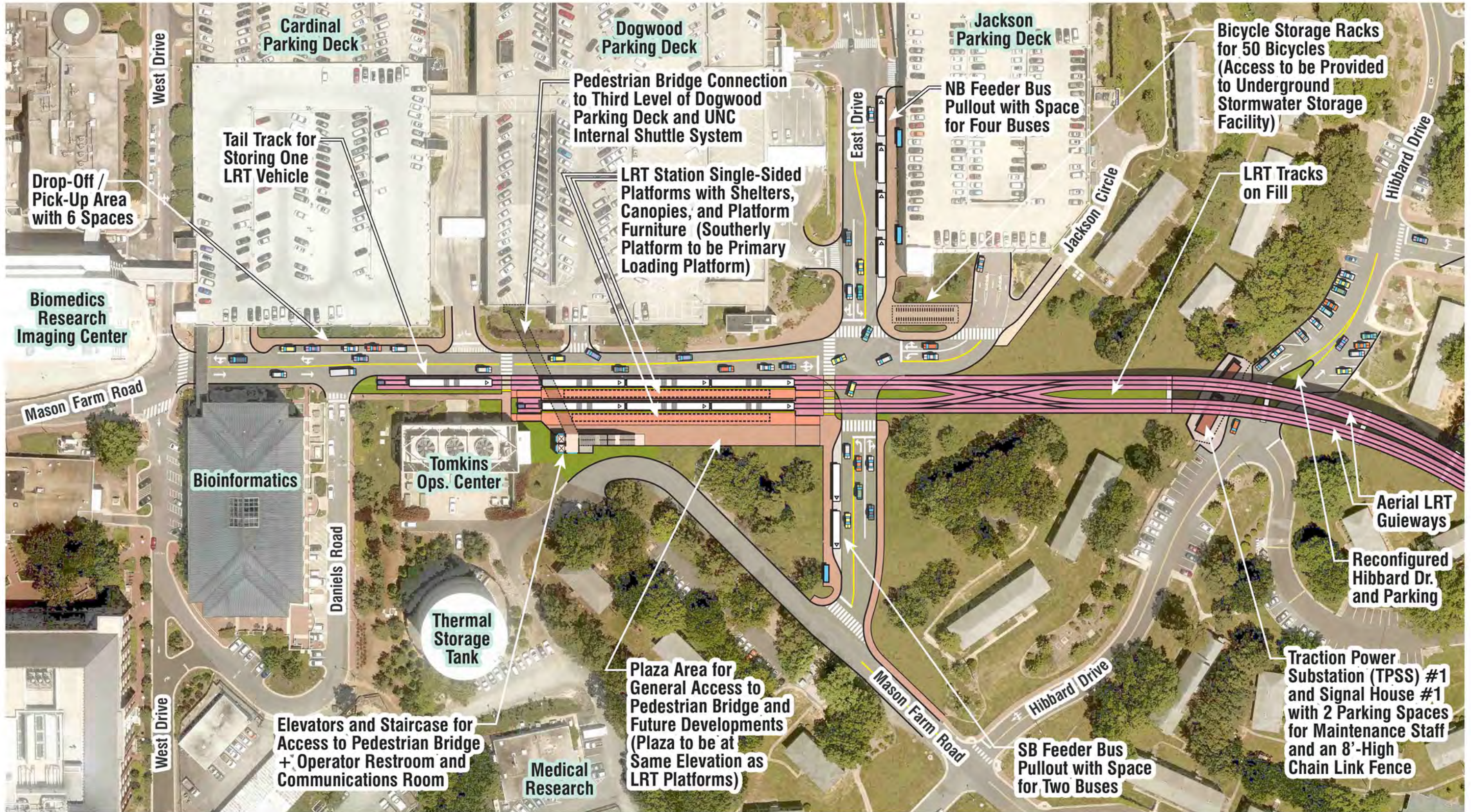
SEGMENT E

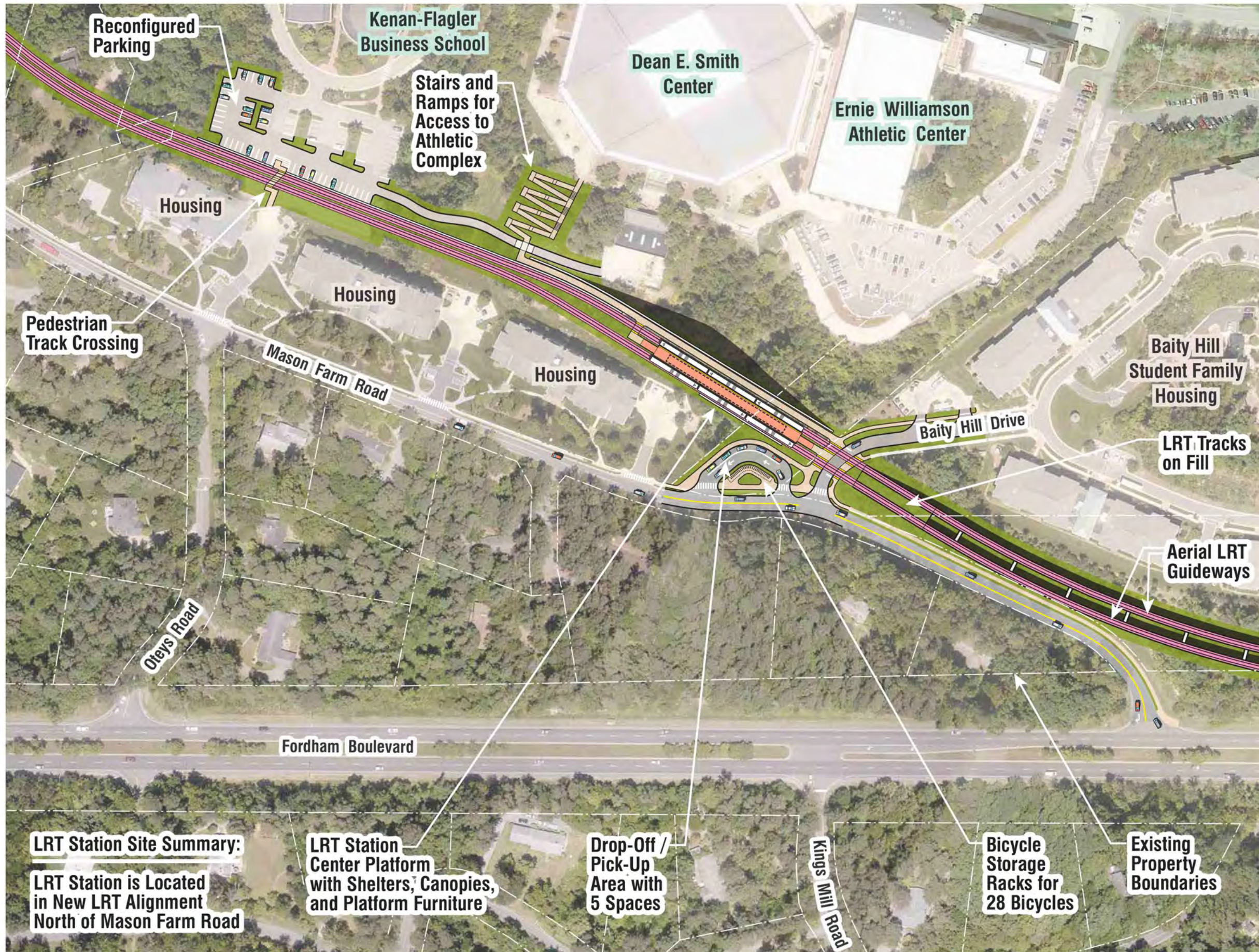
ELBA STREET ROUNDABOUT

DWG: PLAN

SHEET:
RD - 04

STATION / PLATFORM PLANS

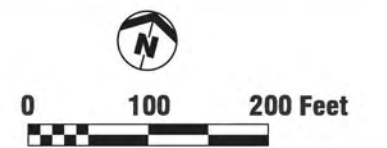




**Proposed
Mason Farm Road Station**

Illustrative Plan

Durham - Orange LRT Corridor



URS

March 6, 2015



LRT Station Site Summary:
LRT Station is Located
in New LRT Alignment
North of Mason Farm Road

LRT Station
Center Platform
with Shelters, Canopies,
and Platform Furniture

Drop-Off /
Pick-Up
Area with
5 Spaces

Kings Mill Road

Bicycle
Storage
Racks for
28 Bicycles

Existing
Property
Boundaries



LRT Station Site Summary:

LRT Station is Located in New LRT Alignment South of Prestwick Road

UNC Finley Golf Course

LRT Station Side Platforms with Shelters, Canopies, and Platform Furniture Including Protective Screen for Errant Golf Balls

Connection to Existing Trails

Relocated Crosswalk

Existing Property Boundaries

Reconfigured Parking

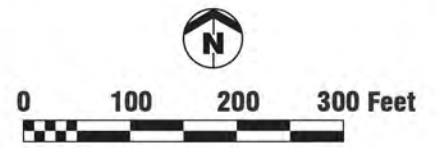
Feeder Bus Pullout with Space for Two Buses

Bicycle Storage Racks for 20 Bicycles

Drop-Off / Pick-Up Area with 8 Spaces

Proposed Hamilton Road Station (C1, C1A, & C2 Alternatives) Illustrative Plan

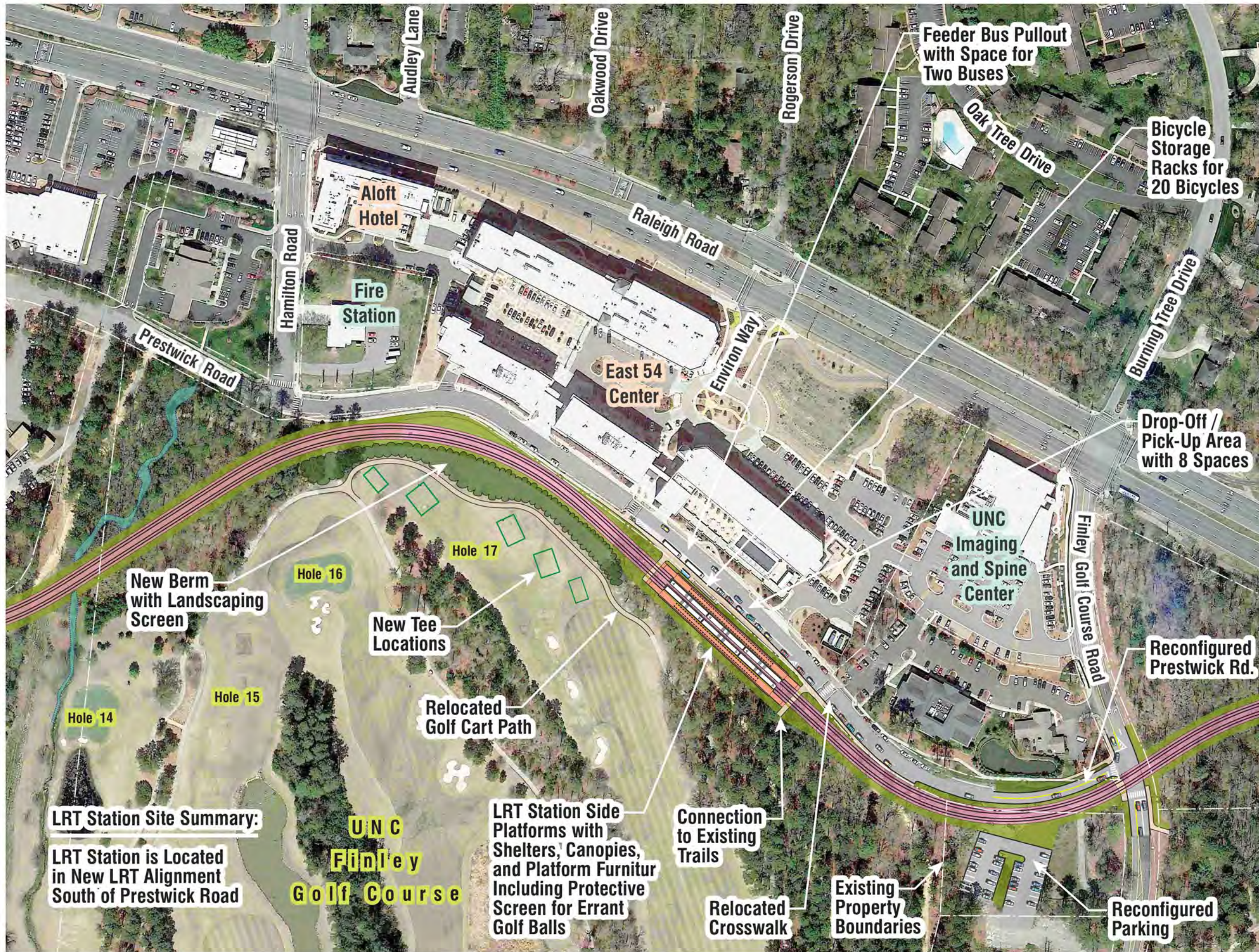
Durham - Orange LRT Corridor



URS

March 12, 2015





LRT Station Site Summary:

LRT Station is Located in New LRT Alignment South of Prestwick Road

**UNC
Finley
Golf Course**

LRT Station Side Platforms with Shelters, Canopies, and Platform Furniture Including Protective Screen for Errant Golf Balls

Connection to Existing Trails

Relocated Crosswalk

Existing Property Boundaries

Reconfigured Parking

Feeder Bus Pullout with Space for Two Buses

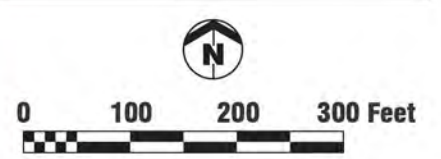
Bicycle Storage Racks for 20 Bicycles

Drop-Off / Pick-Up Area with 8 Spaces

Reconfigured Prestwick Rd.

Proposed Hamilton Road Station (C2A Alternative) Illustrative Plan

Durham - Orange LRT Corridor



URS

March 12, 2015

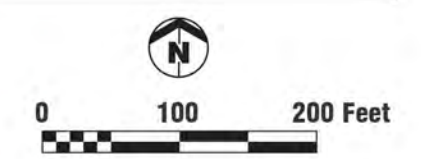




LRT Station Site Summary:
 LRT Station Site Located on Existing Park-and-Ride Lot
 Total Parking in Existing Parking Lot = 860 Spaces
 Proposed Adjusted LRT Park-and-Ride Parking Lot = 862 Spaces (Including 18 ADA Parking Spaces)

Proposed Friday Center Drive Station (C1 & C1A Alternatives)
 Illustrative Plan - Lower Level

Durham - Orange LRT Corridor



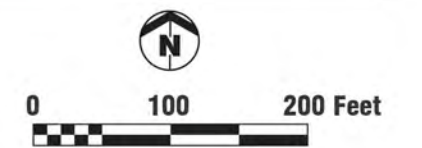
URS
 March 7, 2015





**Proposed
Friday Center Drive Station
(C1 & C1A Alternatives)
Illustrative Plan - Upper Level**

Durham - Orange LRT Corridor



URS

March 7, 2015





Traction Power Substation (TPSS) #3 with Two Parking Spaces for Maintenance Staff

Existing Trail Underpass at Hwy. 54 Provides Link to Meadowmont Village

Franklin Street Trust Building

Bicycle Storage Racks for 50 Bicycles

20 ADA Parking Spaces

Existing Property Boundaries

Existing Park-and-Ride Lot

LRT Station Site Summary:

LRT Station Site Located on Expanded Existing Park-and-Ride Lot

Total Parking in Existing Parking Lot = 860 Spaces

Proposed Adjusted LRT Park-and-Ride Parking Lot = 860 Spaces (Including 20 ADA Parking Spaces)

LRT Station Center Platform with Shelters, Canopies, and Platform Furniture

Drop-Off / Pick-Up Area with 10 Spaces

William and Ida Friday Center for Continuing Education

Feeder Bus and Special Shuttle Pullout

UNC
Finley
Golf
Course

Proposed Friday Center Drive Station (C2 Alternative) Illustrative Plan

Durham - Orange LRT Corridor



URS

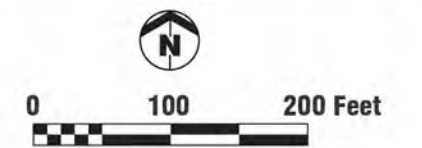
March 7, 2015





**Proposed
Friday Center Drive Station
(C2A Alternative)
Illustrative Plan**

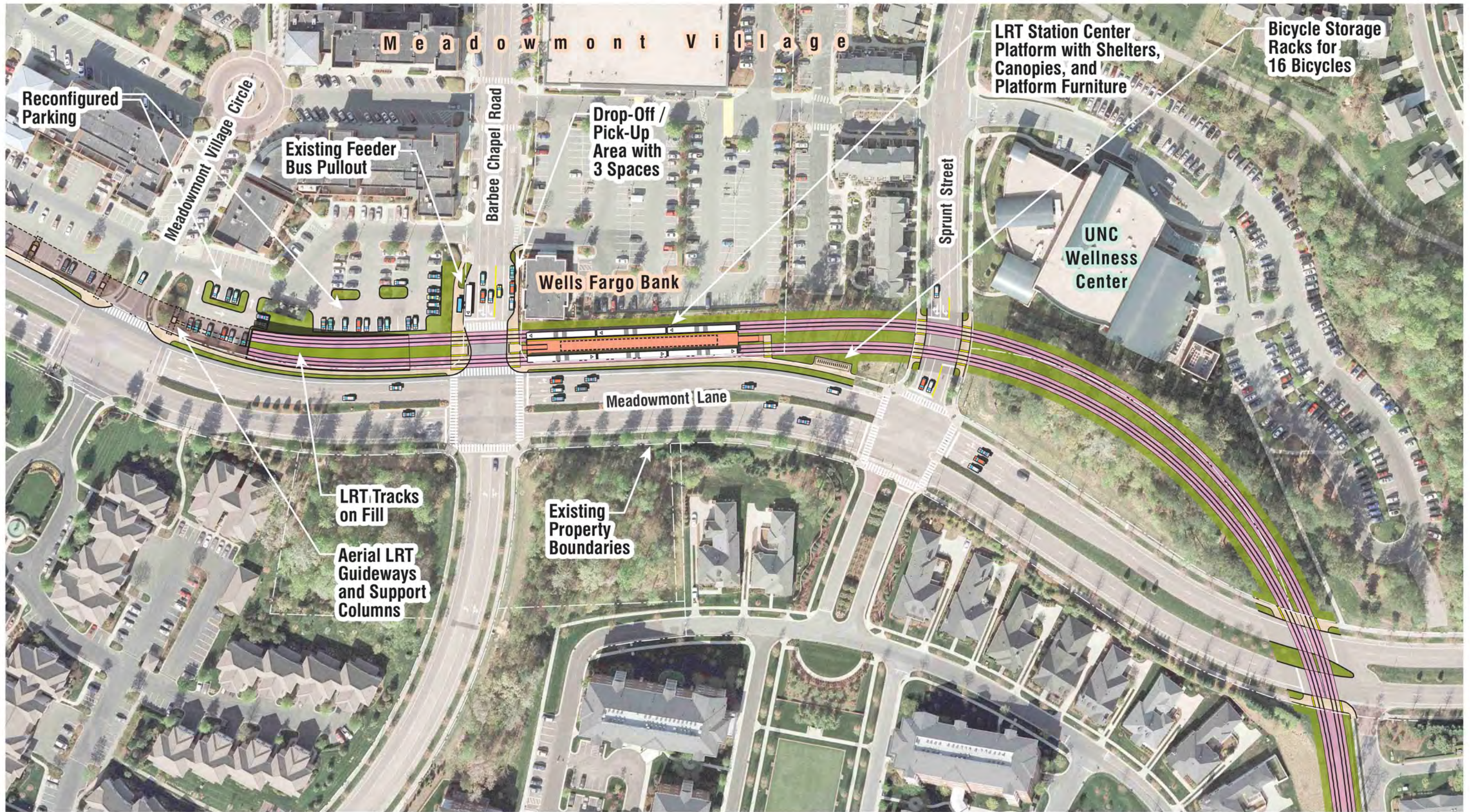
Durham - Orange LRT Corridor

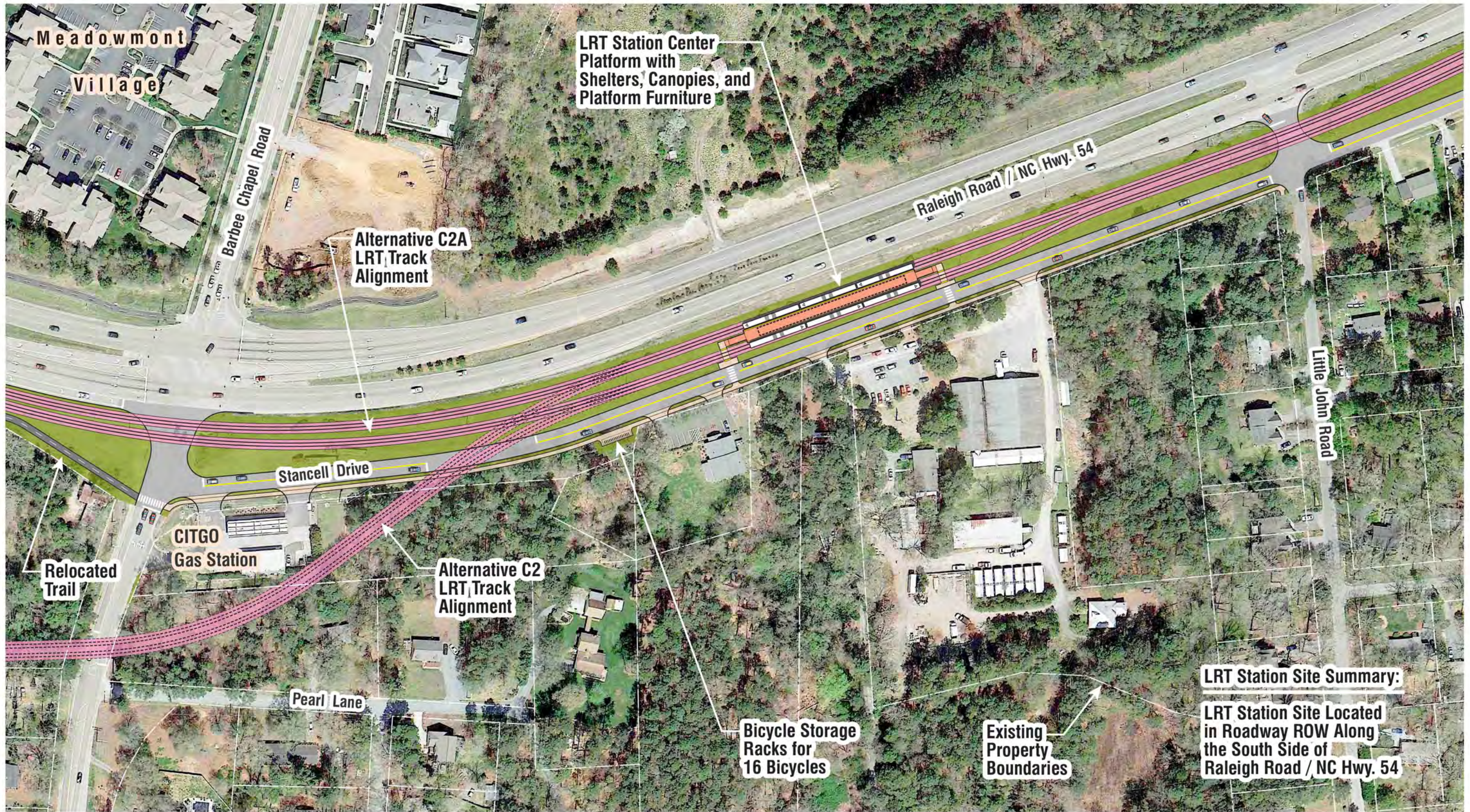


URS

March 7, 2015







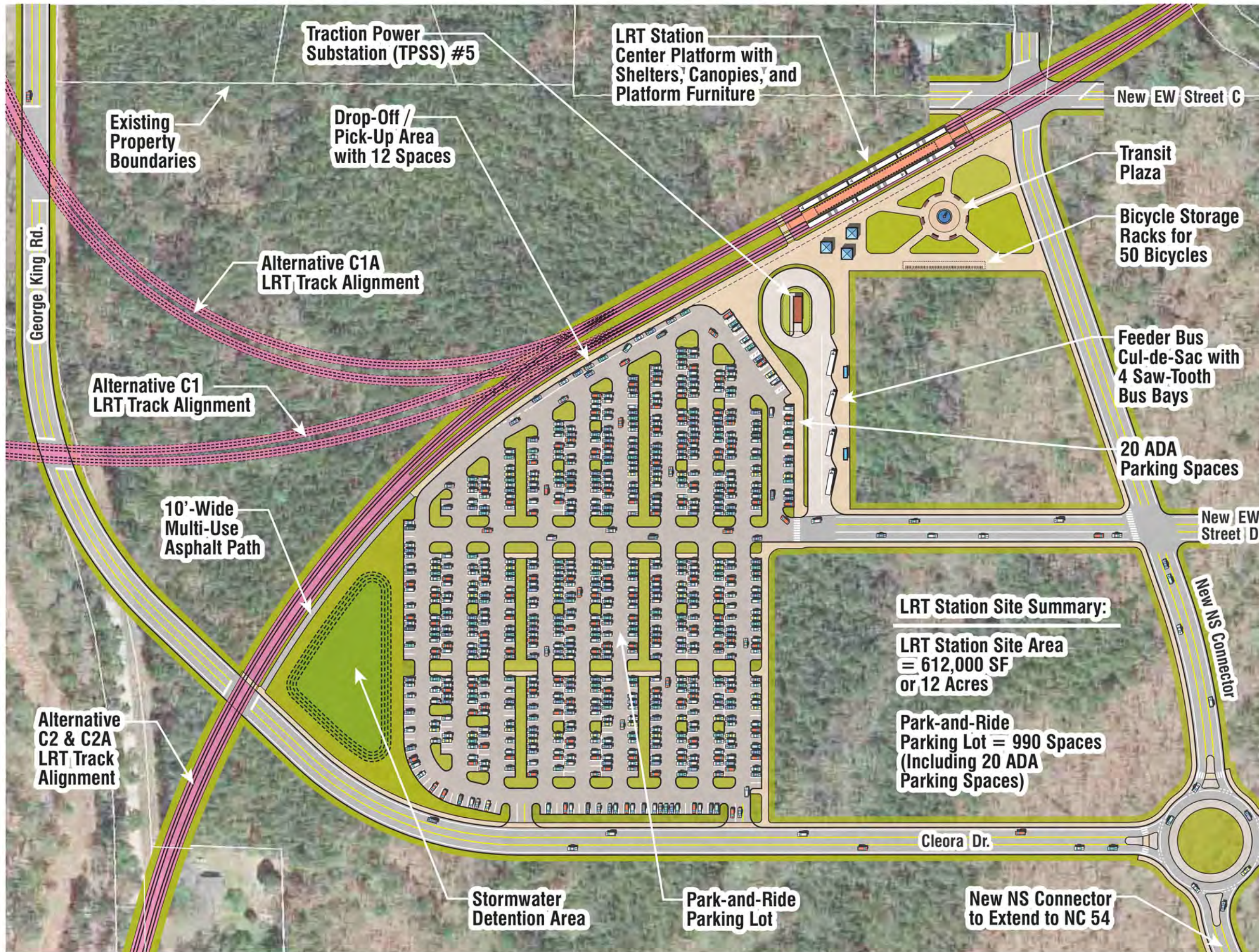
LRT Station Site Summary:
 LRT Station Site Located in Roadway ROW Along the South Side of Raleigh Road / NC Hwy. 54



URS
 March 7, 2015



Proposed Woodmont Station (C2 & C2A Alternatives)
Illustrative Plan
 Durham - Orange LRT Corridor



LRT Station Site Summary:

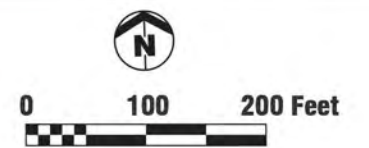
LRT Station Site Area
 ≈ 612,000 SF
 or 12 Acres

Park-and-Ride
 Parking Lot = 990 Spaces
 (Including 20 ADA
 Parking Spaces)

**Proposed
 Leigh Village Station**

Illustrative Plan

Durham - Orange LRT Corridor



URS

April 1, 2015

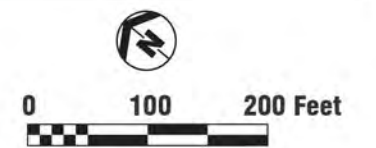




Proposed Gateway Station

Illustrative Plan

Durham - Orange LRT Corridor



URS

May 19, 2015



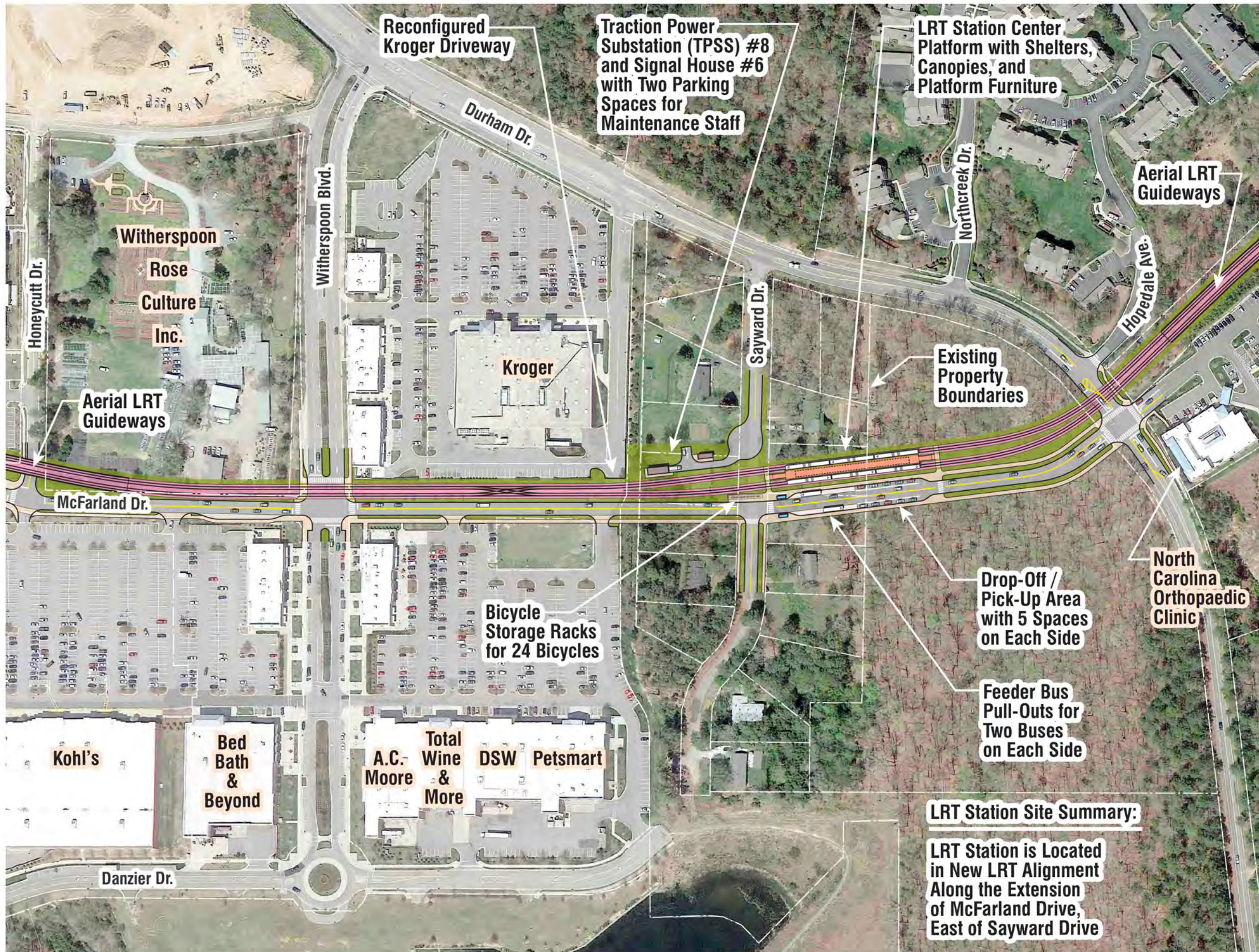
LRT Station Site Summary:

LRT Station Site Area
 ≈ 410,000 SF
 or 9.4 Acres

Park-and-Ride Parking
 South Lot ≈ 182 Spaces
 (Including 8 ADA
 Parking Spaces)

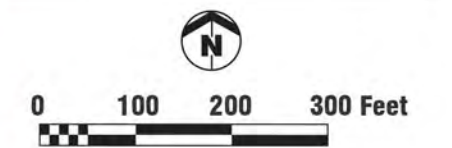
Park-and-Ride Parking
 North Lot ≈ 280 Spaces
 (Including 8 ADA
 Parking Spaces)

TOTAL Park-and-Ride
 ≈ 462 Spaces
 (Including 16 ADA
 Parking Spaces)



**Proposed
Patterson Place Station
(NHC LPA Alternative)
Illustrative Plan**

Durham - Orange LRT Corridor



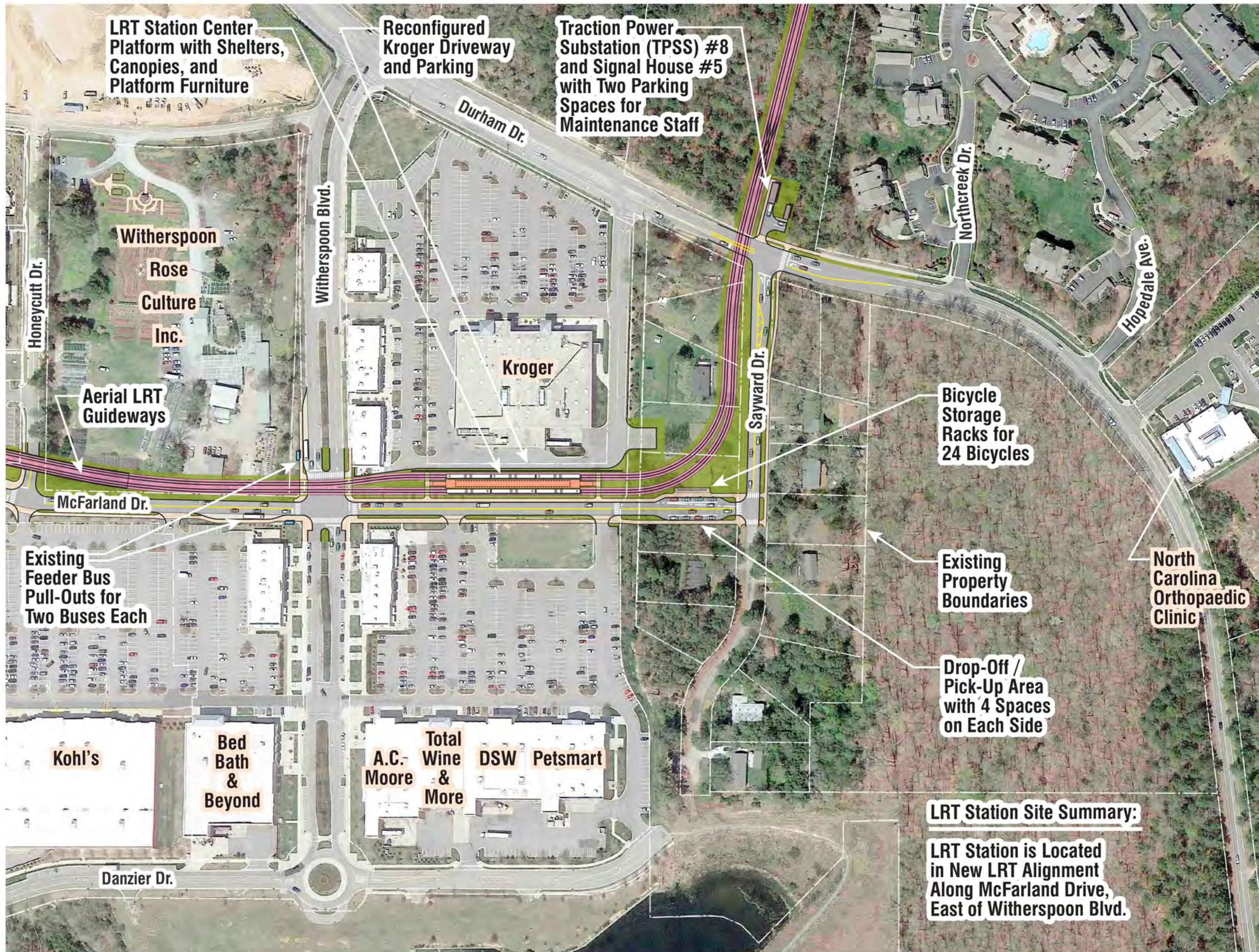
URS

February 19, 2015



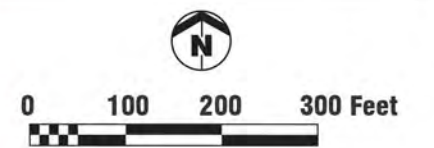
LRT Station Site Summary:

LRT Station is Located in New LRT Alignment Along the Extension of McFarland Drive, East of Sayward Drive



**Proposed
Patterson Place Station
(NHC 1 & NHC 2 Alternatives)
Illustrative Plan**

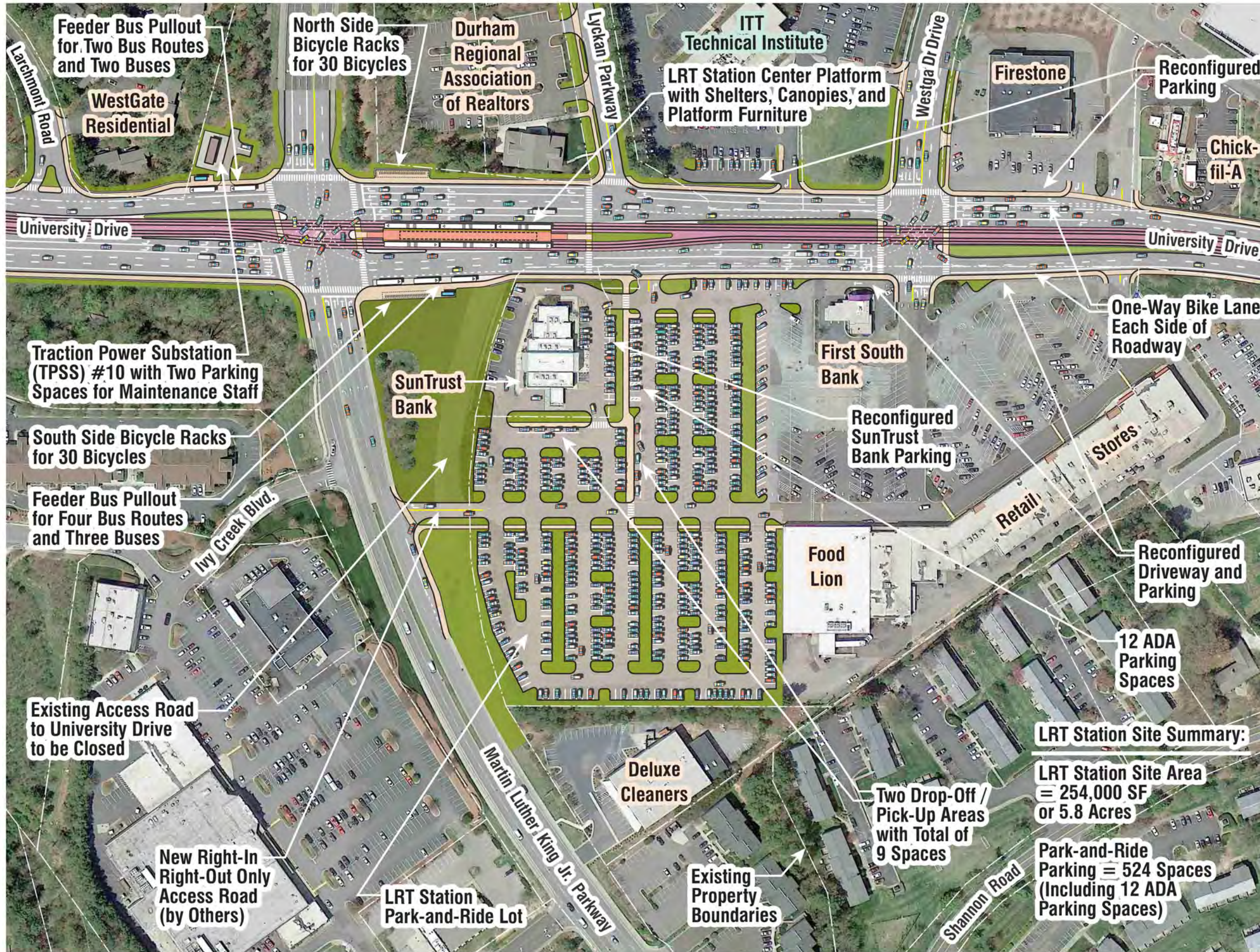
Durham - Orange LRT Corridor



URS

February 19, 2015





**Proposed
Martin Luther King Jr.
Parkway Station**
(NHC LPA & NHC 2 Alternatives)

Illustrative Plan

Durham - Orange LRT Corridor



LRT Station Site Summary:

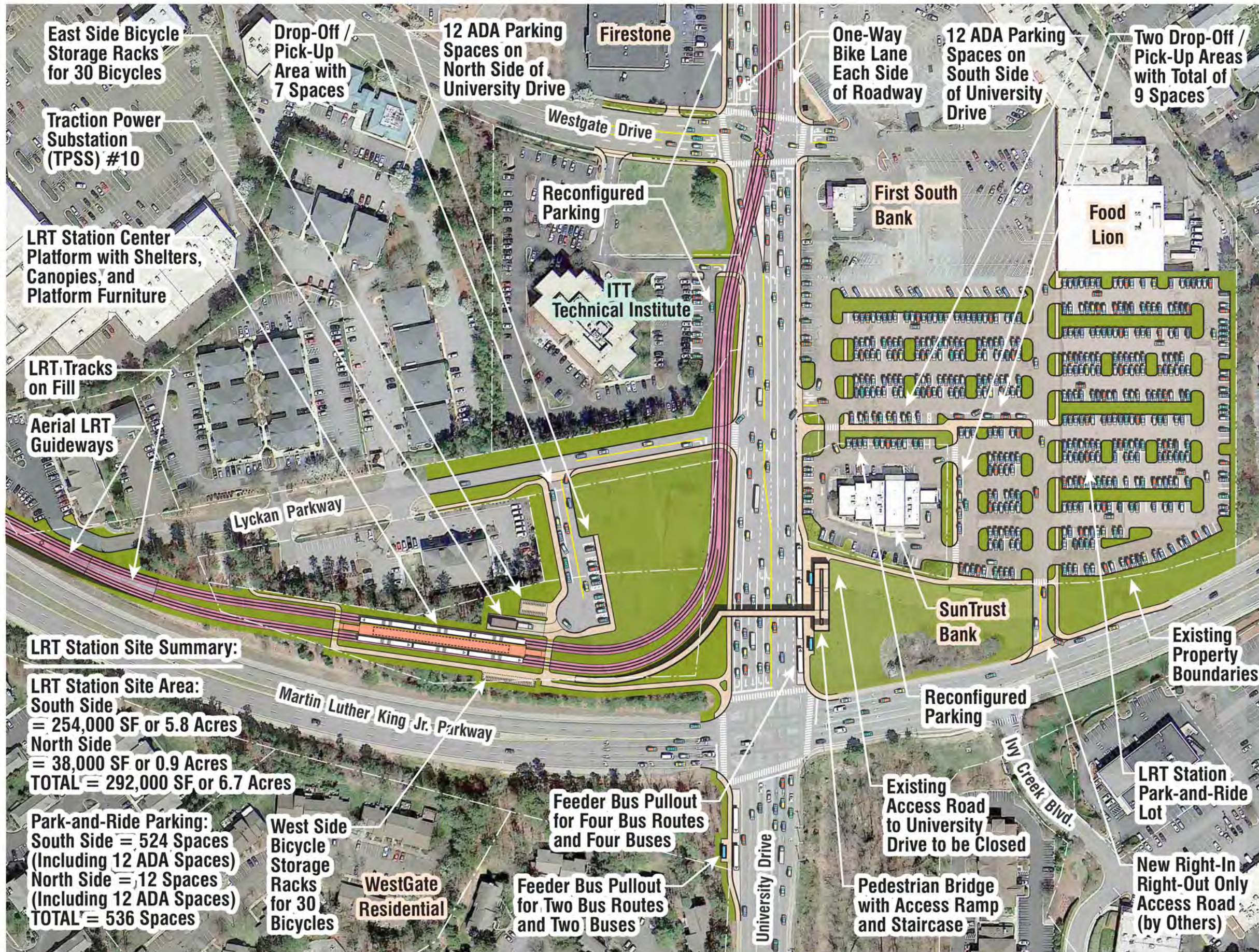
LRT Station Site Area
≅ 254,000 SF
or 5.8 Acres

Park-and-Ride
Parking ≅ 524 Spaces
(Including 12 ADA
Parking Spaces)



March 23, 2015

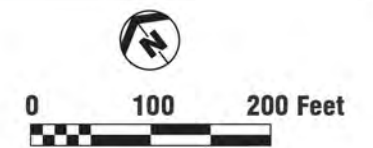




**Proposed
Martin Luther King Jr.
Parkway Station
(NHC 1 Alternative)**

Illustrative Plan

Durham - Orange LRT Corridor



URS

March 23, 2015





Aerial LRT
Guideway
Support
Columns

Aerial LRT
Guideways and
Station Above

Vertical Circulation
Including Two Elevators
and Two Staircases

Bicycle
Storage
Racks for
28 Bicycles

LRT Tracks
on Fill

Office
Depot

Fidelity
Bank

Gas
Station

Shannon Road

Cookout

Wendy's

Original
Mattress
Factory

Eye
Care
Assoc.

Auto Park Drive

Feeder
Bus Stop

Chapel Hill Boulevard
Service Road

Durham Chapel Hill Boulevard

LRT Station Site Summary:

LRT Site Area = 161,200 SF
or 3.7 Acres

Park-and-Ride Parking
= 270 Spaces
(Including 8 ADA
Parking Spaces)

LRT
Station
Site

Mayfair St.

Drop-Off /
Pick-Up Area
with 7 Spaces

Existing Property
Boundaries

Auto Park Drive

8 ADA
Parking
Spaces

**Proposed
South Square Station**

Illustrative Plan - Lower Level

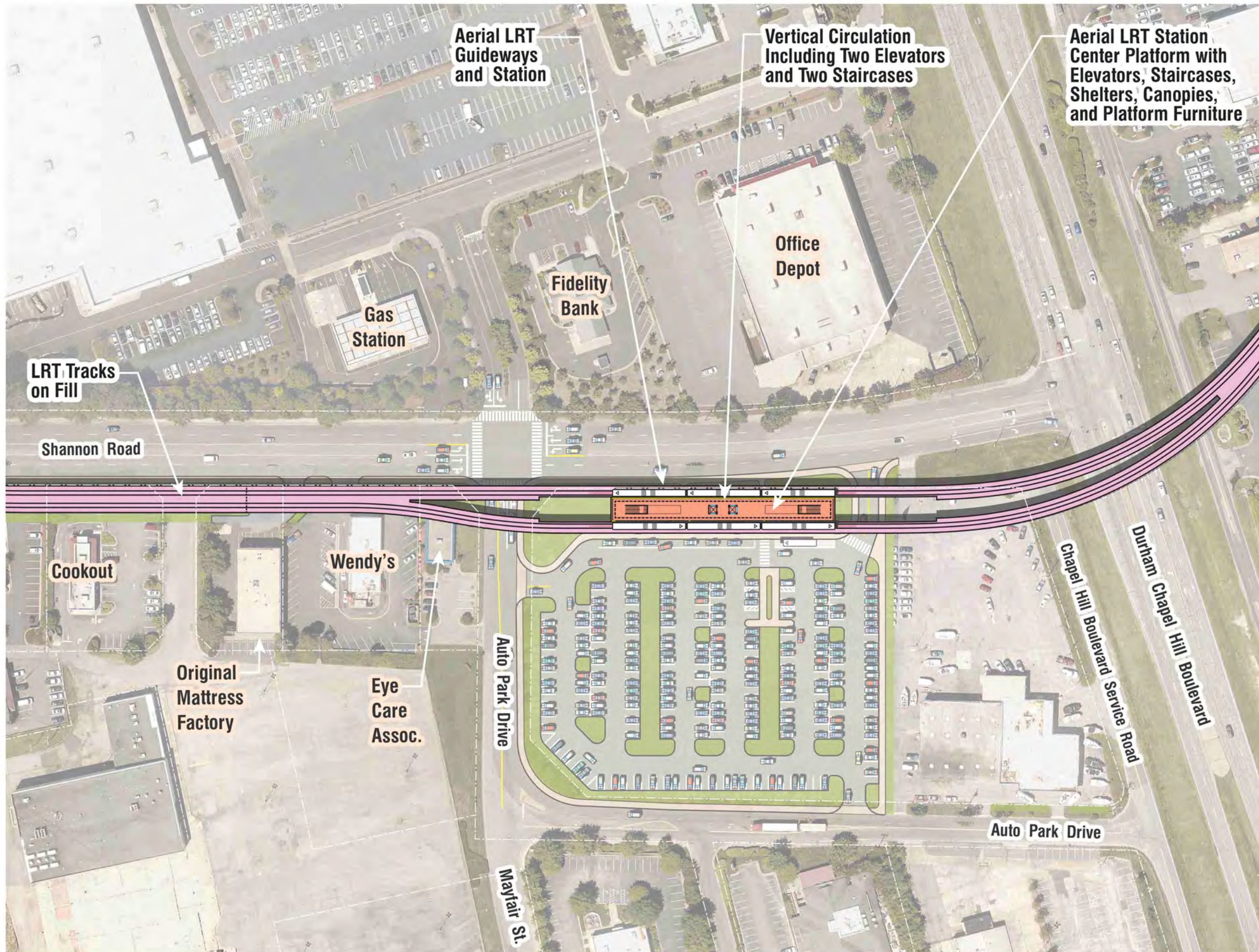
Durham - Orange LRT Corridor



URS

March 8, 2015



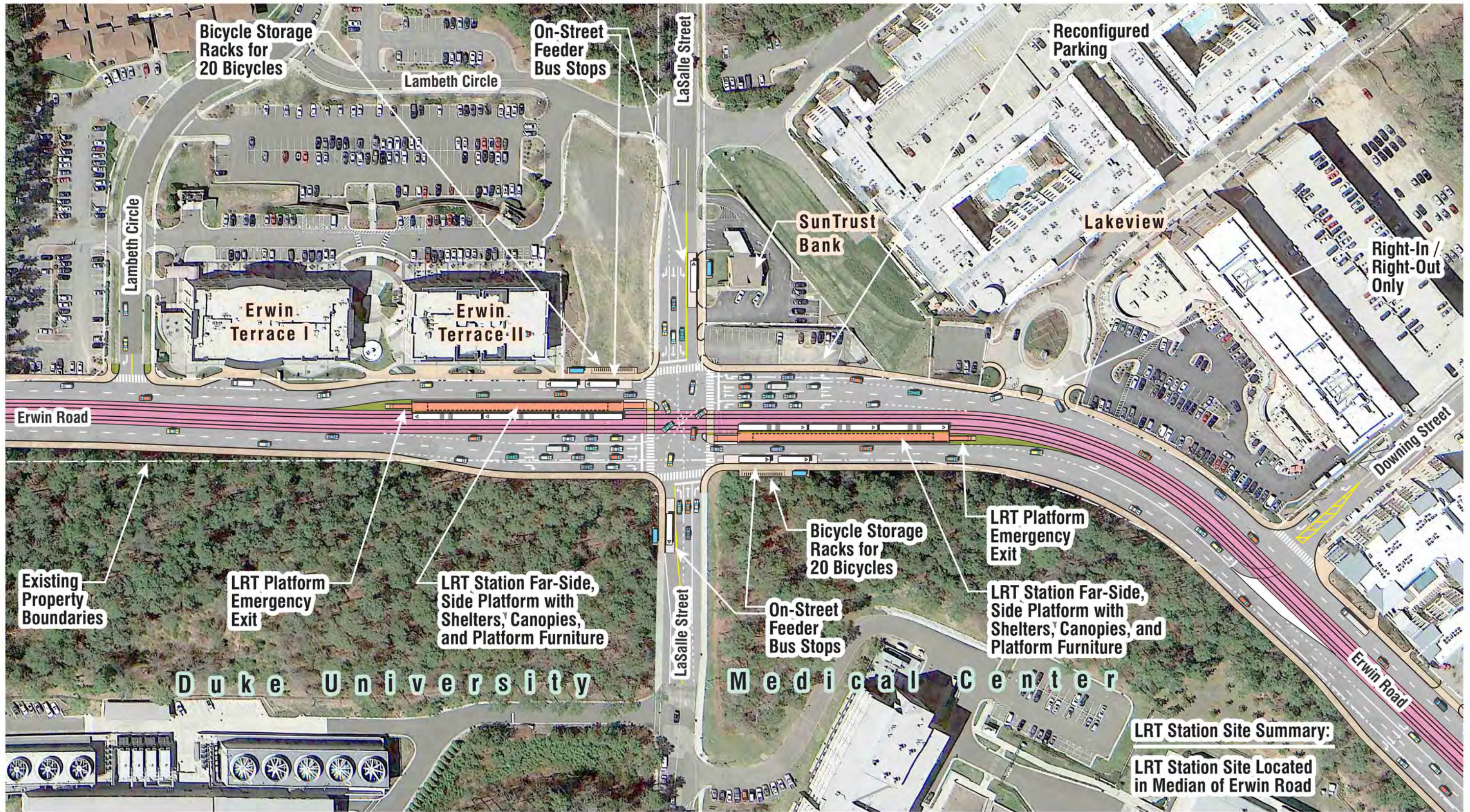


Proposed South Square Station
Illustrative Plan - Upper Level
 Durham - Orange LRT Corridor

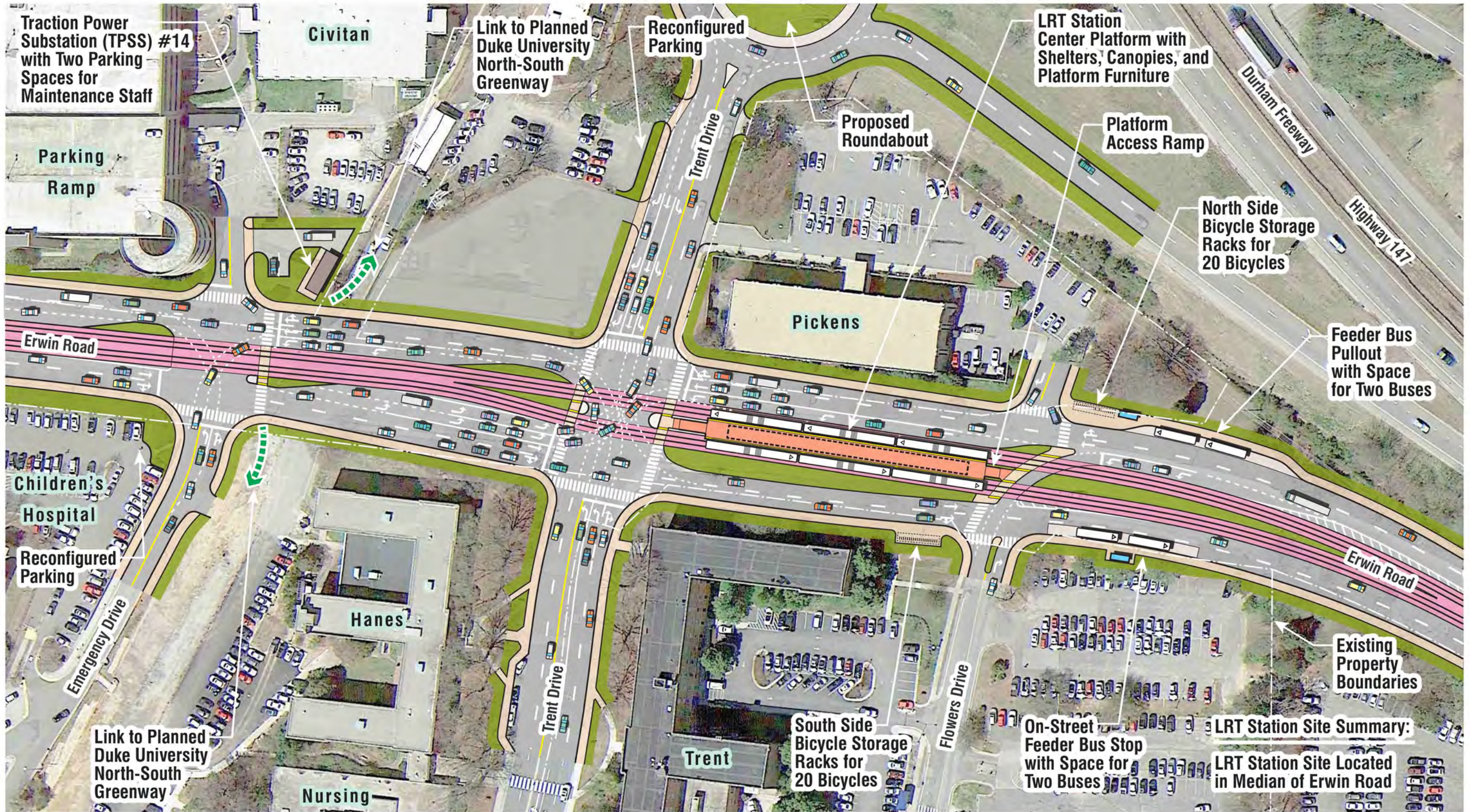


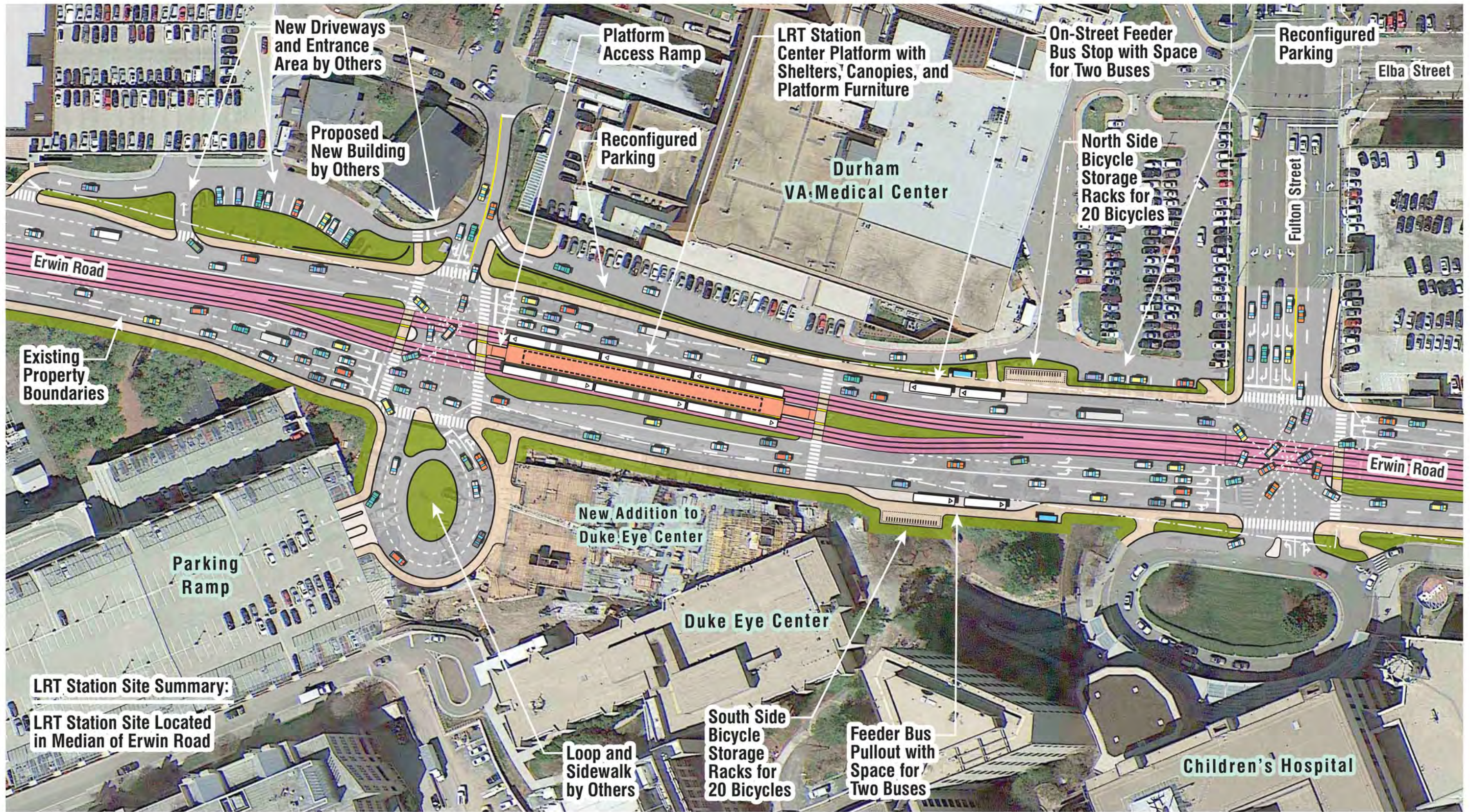
URS
 March 8, 2015

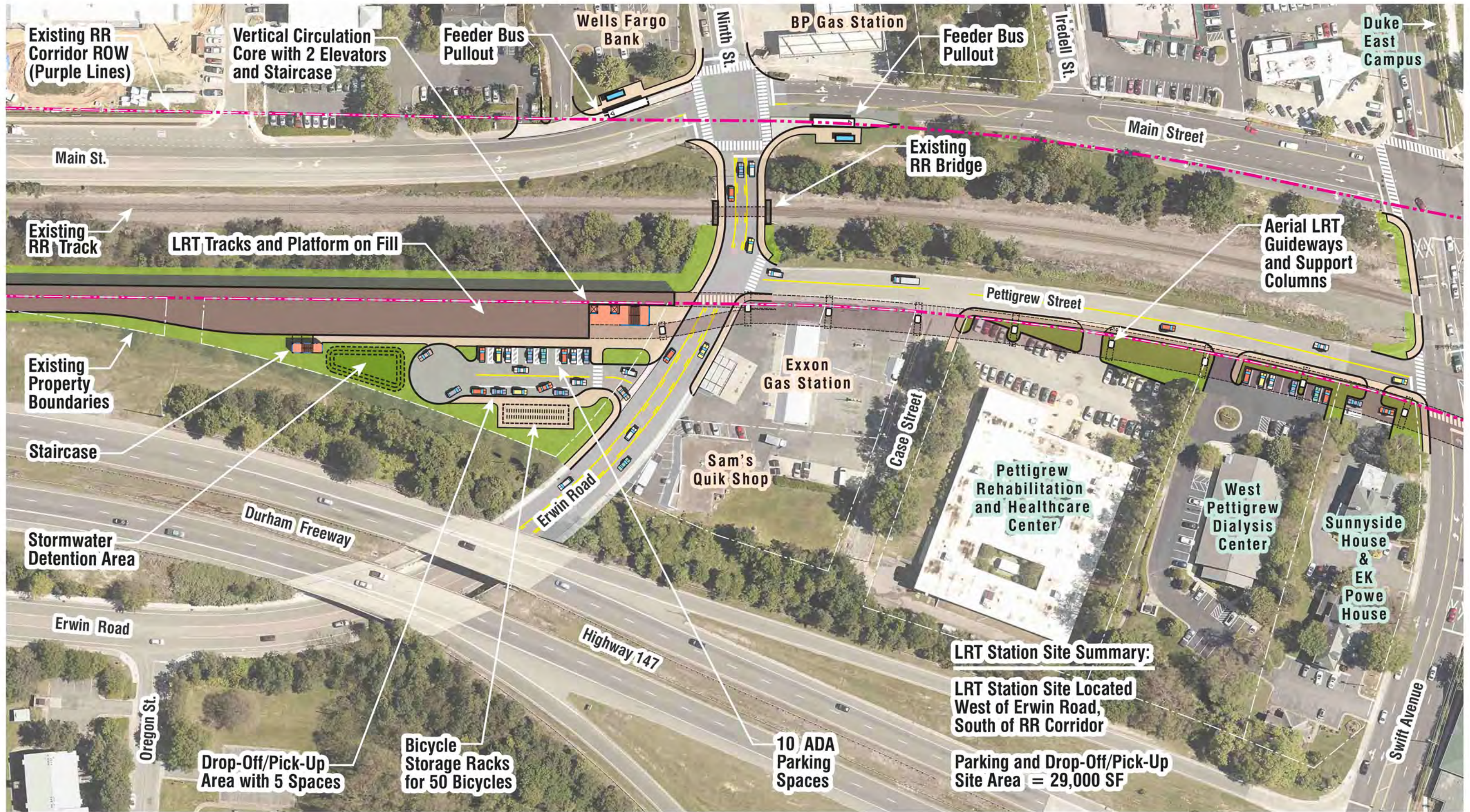


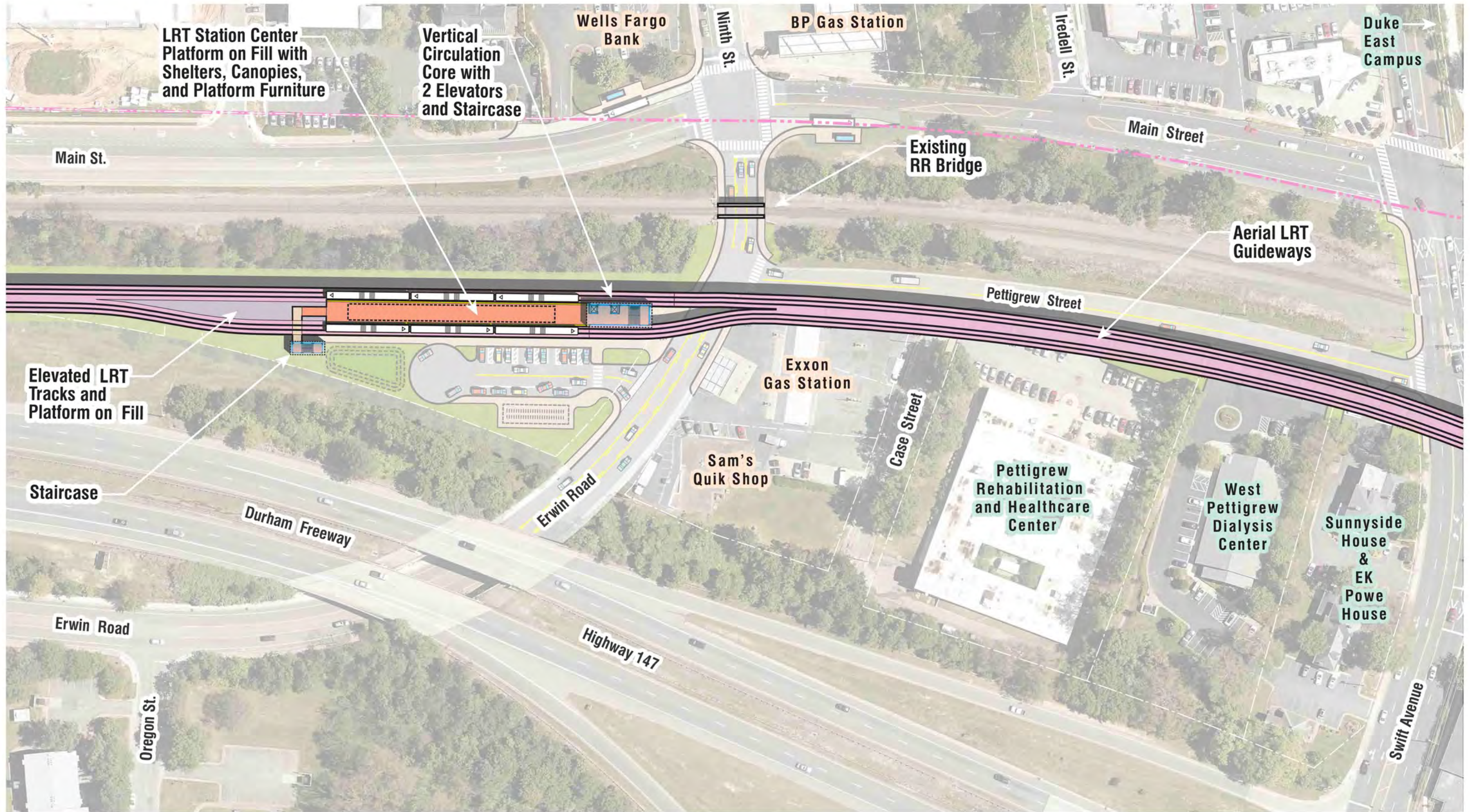


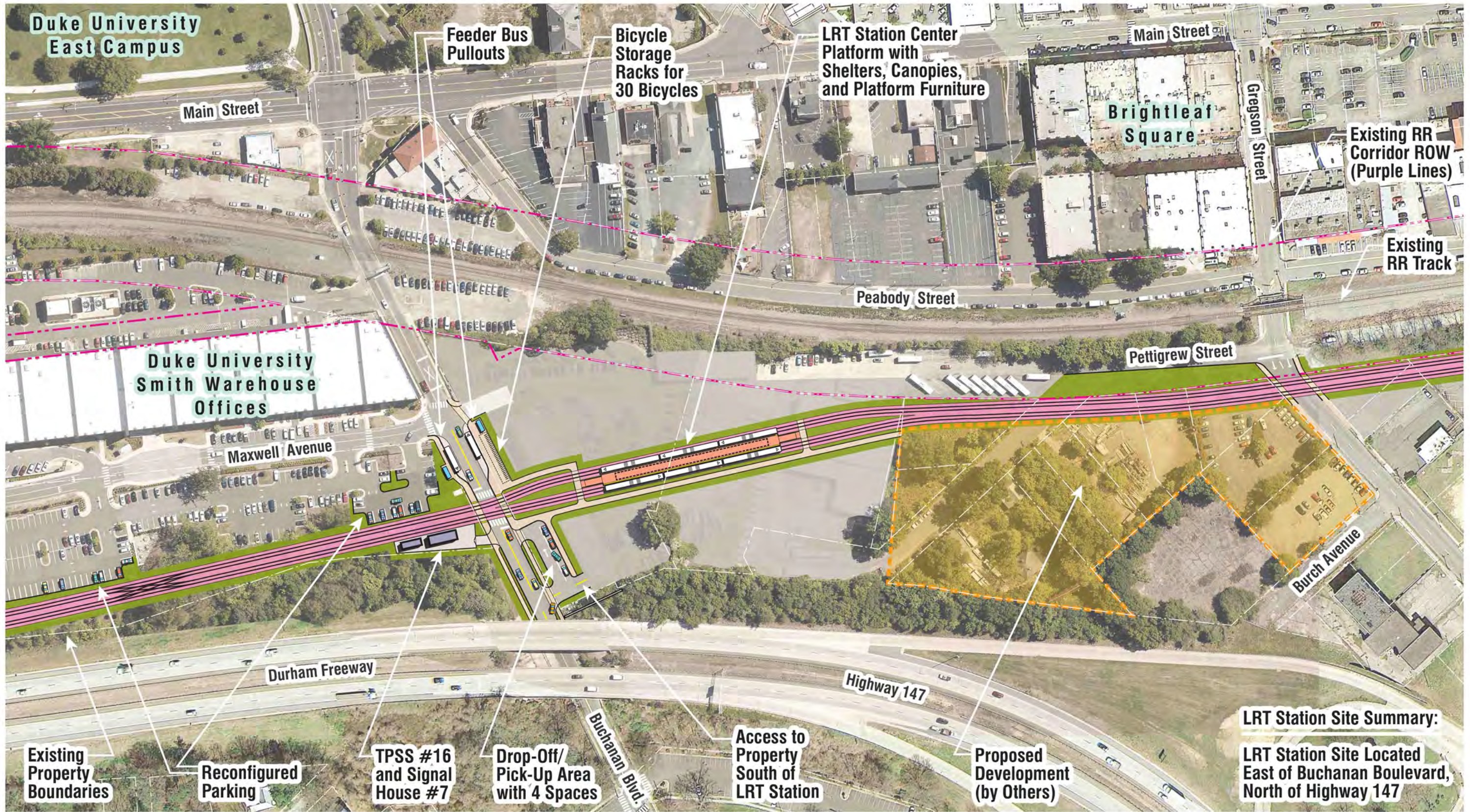
LRT Station Site Summary:
LRT Station Site Located in Median of Erwin Road

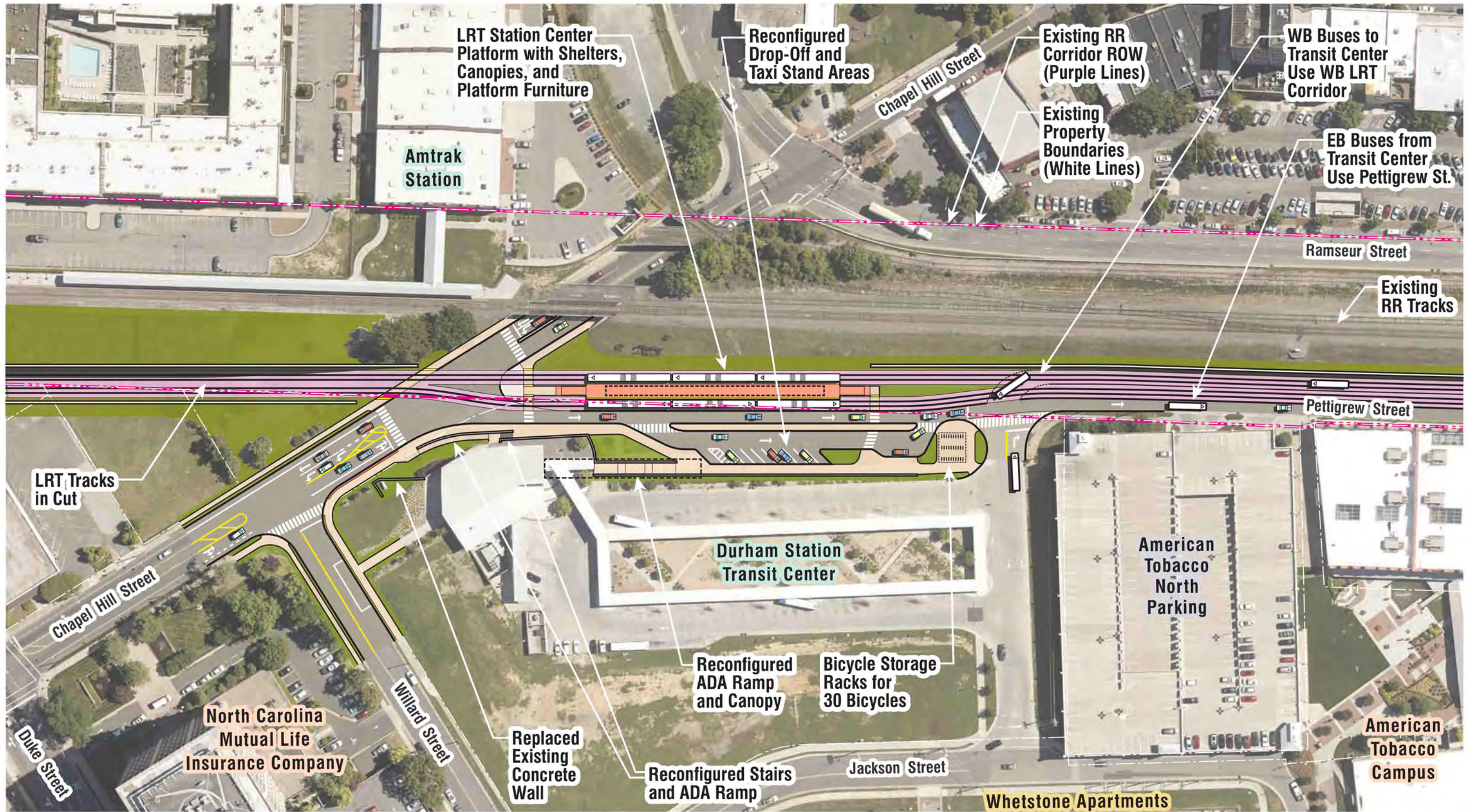


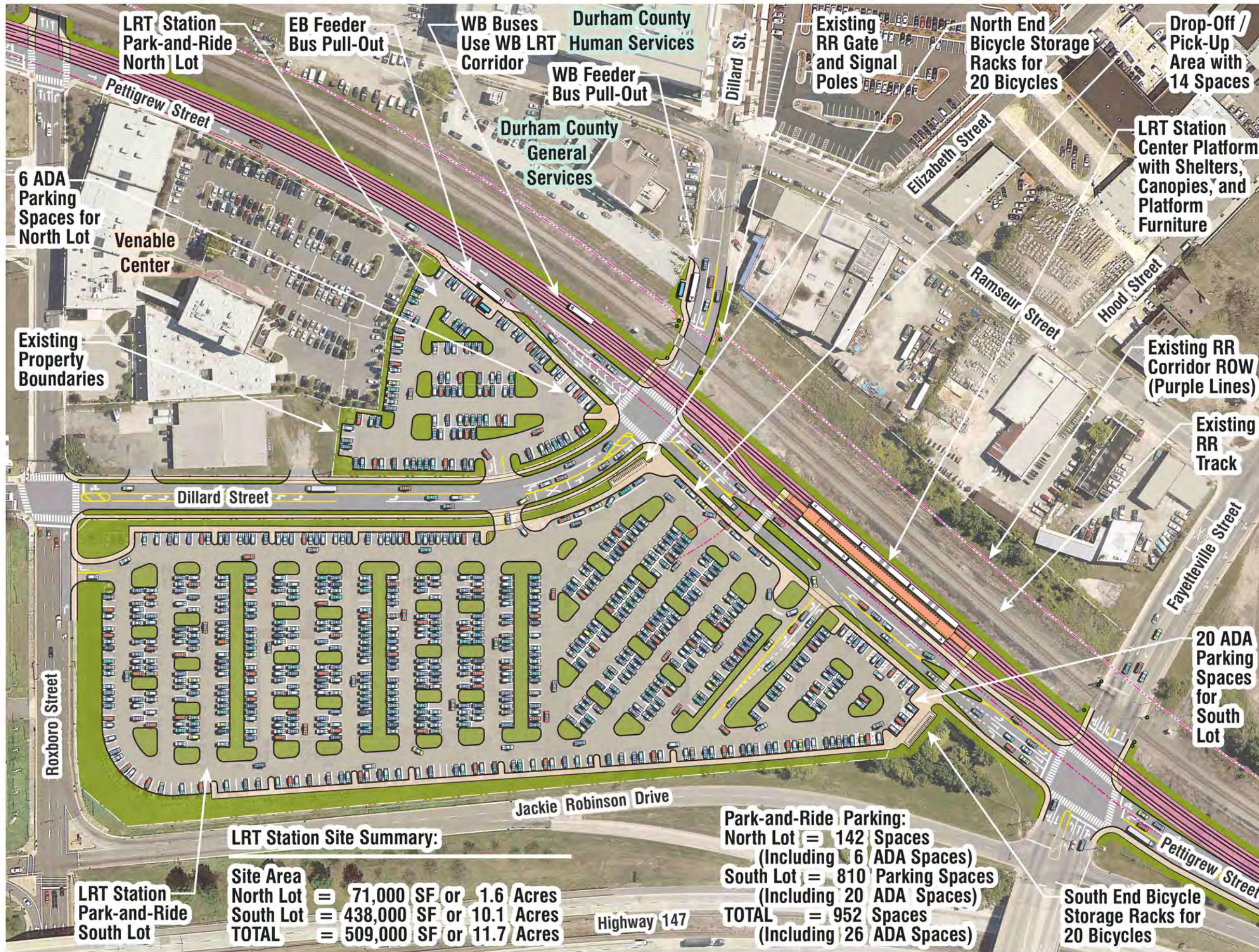












LRT Station Site Summary:

Site Area	
North Lot	= 71,000 SF or 1.6 Acres
South Lot	= 438,000 SF or 10.1 Acres
TOTAL	= 509,000 SF or 11.7 Acres

Park-and-Ride Parking:	
North Lot	= 142 Spaces (Including 6 ADA Spaces)
South Lot	= 810 Parking Spaces (Including 20 ADA Spaces)
TOTAL	= 952 Spaces (Including 26 ADA Spaces)

Proposed Dillard Street Station

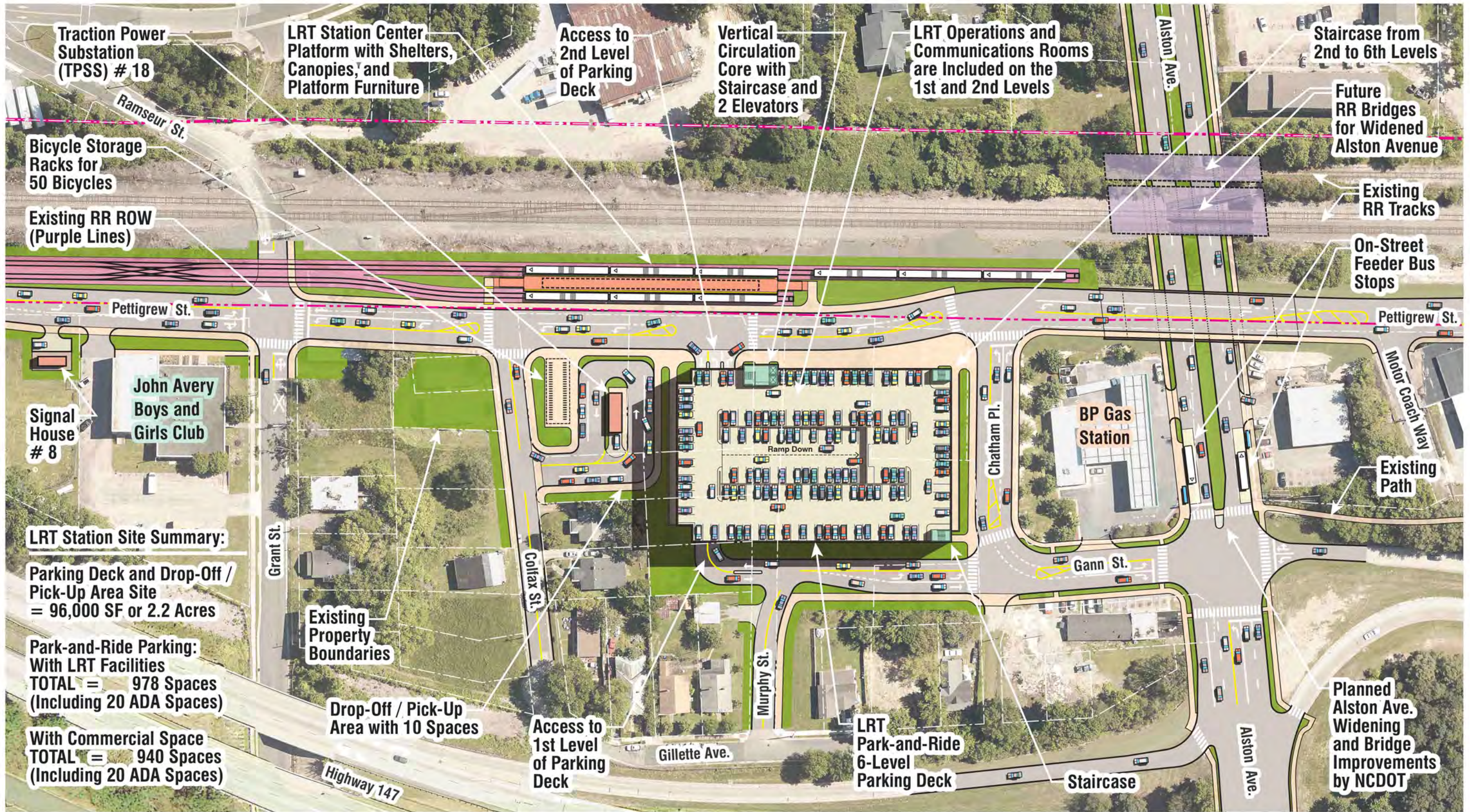
Illustrative Plan

Durham - Orange LRT Corridor



February 14, 2015





Traction Power Substation (TPSS) # 18

LRT Station Center Platform with Shelters, Canopies, and Platform Furniture

Access to 2nd Level of Parking Deck

Vertical Circulation Core with Staircase and 2 Elevators

LRT Operations and Communications Rooms are Included on the 1st and 2nd Levels

Staircase from 2nd to 6th Levels

Future RR Bridges for Widened Alston Avenue

Existing RR Tracks

On-Street Feeder Bus Stops

Bicycle Storage Racks for 50 Bicycles

Existing RR ROW (Purple Lines)

Pettigrew St.

Pettigrew St.

John Avery Boys and Girls Club

BP Gas Station

Signal House # 8

Existing Path

LRT Station Site Summary:

Parking Deck and Drop-Off / Pick-Up Area Site = 96,000 SF or 2.2 Acres

Park-and-Ride Parking: With LRT Facilities TOTAL = 978 Spaces (Including 20 ADA Spaces)

With Commercial Space TOTAL = 940 Spaces (Including 20 ADA Spaces)

Grant St.

Existing Property Boundaries

Colfax St.

Chatham Pl.

Gann St.

Drop-Off / Pick-Up Area with 10 Spaces

Access to 1st Level of Parking Deck

Murphy St.

LRT Park-and-Ride 6-Level Parking Deck

Staircase

Gillette Ave.

Planned Alston Ave. Widening and Bridge Improvements by NCDOT

Highway 147

Alston Ave.



URS
March 9, 2015



Proposed Alston Avenue Station
Illustrative Plan
Durham - Orange LRT Corridor



Level 2 - Option 1: With Parking + LRT Space
Flat Area Total = 112 Parking Spaces



Level 2 - Option 2: With Commercial Space
Flat Area Total = 74 Parking Spaces



Level 6
Flat Area Total = 142 Parking Spaces



Level 1
Flat Area Total = 92 Parking Spaces

SUMMARY

Option 1
6-Level Parking Deck
With Parking + LRT Space

Level 1	=	92 Spaces
Level 2	=	112 Spaces
Level 3	=	134 Spaces
Level 4	=	134 Spaces
Level 5	=	134 Spaces
Level 6	=	142 Spaces

5 Ramps
5 x 46 = 230 Spaces

Total = 978 Spaces
Including 20 ADA Spaces

Option 2
6-Level Parking Deck
With Commercial Space

Level 1	=	92 Spaces
Level 2	=	74 Spaces
Level 3	=	134 Spaces
Level 4	=	134 Spaces
Level 5	=	134 Spaces
Level 6	=	142 Spaces

5 Ramps
5 x 46 = 230 Spaces

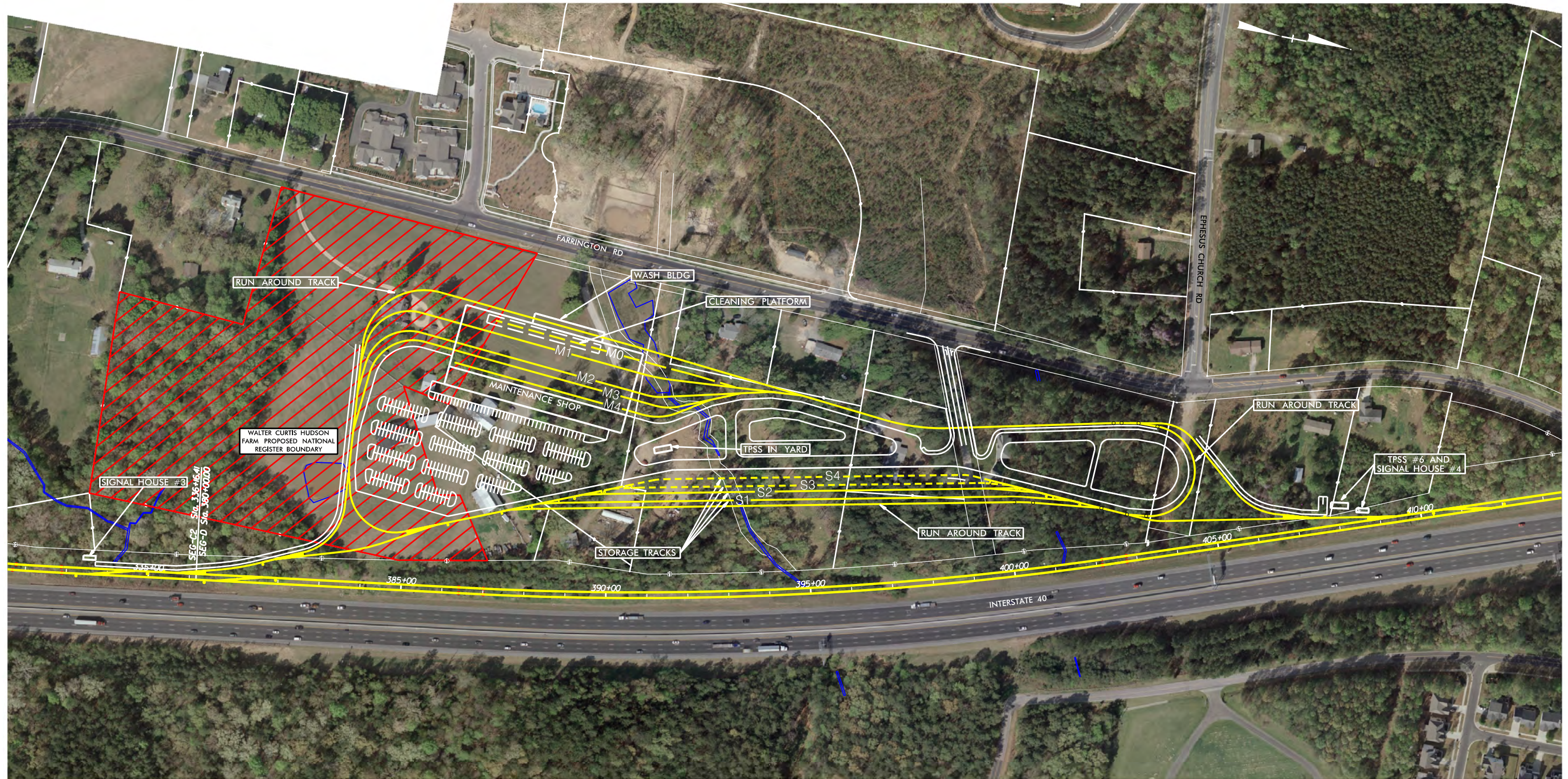
Total = 940 Spaces
Including 20 ADA Spaces



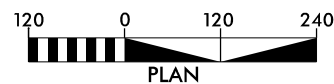
Levels 3, 4, and 5
Flat Area Total for Each Level = 134 Parking Spaces

RAIL OPERATIONS MAINTENANCE FACILITY

LEIGH VILLAGE RAIL OPERATIONS AND MAINTENANCE FACILITY



GRAPHIC SCALES



CONCEPT PLANS ONLY
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

LEGEND

- BRIDGE PIERS
- AT-GRADE TRK
- ELEVATED TRK
- WETLANDS
- STATION



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URS Corporation - North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, North Carolina 27560
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NC Lic.# C-2243



3220 GLEN ROYAL RD. RALEIGH, NC 27617
TELE 919.788.0224 FAX 919.788.0232
NC LICENSE #P-0189

PROPOSED LRT MAINTENANCE FACILITY

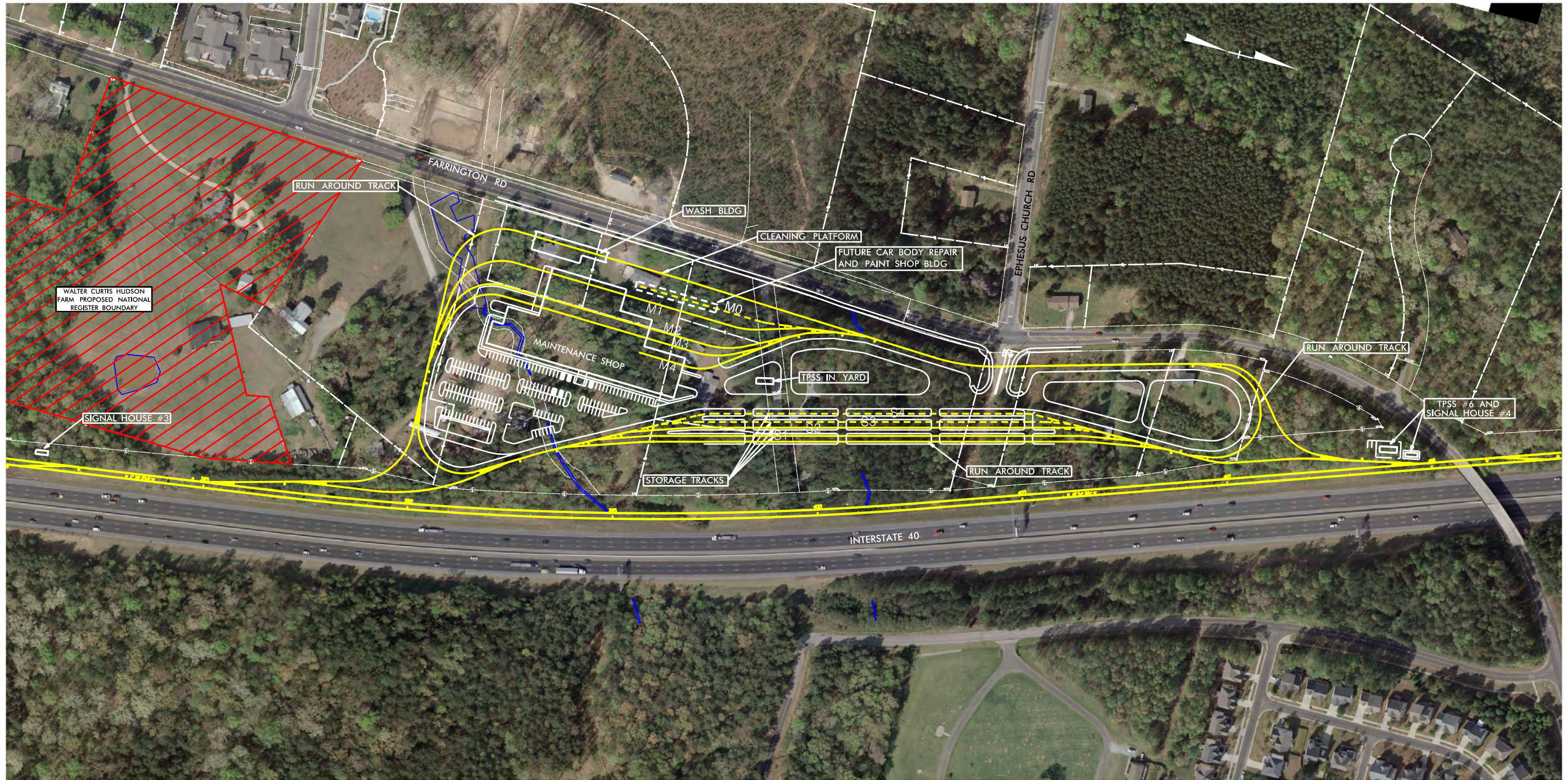
DURHAM - ORANGE CORRIDOR

LEIGH VILLAGE
RAIL OPERATIONS MAINTENANCE FACILITY SITE

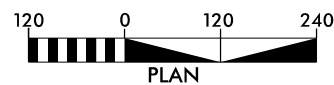
DWG: PLAN

SHEET:
DO - 01

FARRINGTON ROAD RAIL OPERATIONS AND MAINTENANCE FACILITY



GRAPHIC SCALES



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- STATION



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PROPOSED LRT MAINTENANCE FACILITY

DURHAM - ORANGE CORRIDOR
FARRINGTON RD
RAIL OPERATIONS MAINTENANCE FACILITY SITE

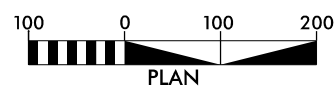
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SHEET:
DO - 02

PATTERSON PLACE RAIL OPERATIONS AND MAINTENANCE FACILITY



GRAPHIC SCALES



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LEGEND

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- WETLANDS
- STATION



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PROPOSED LRT MAINTENANCE FACILITY

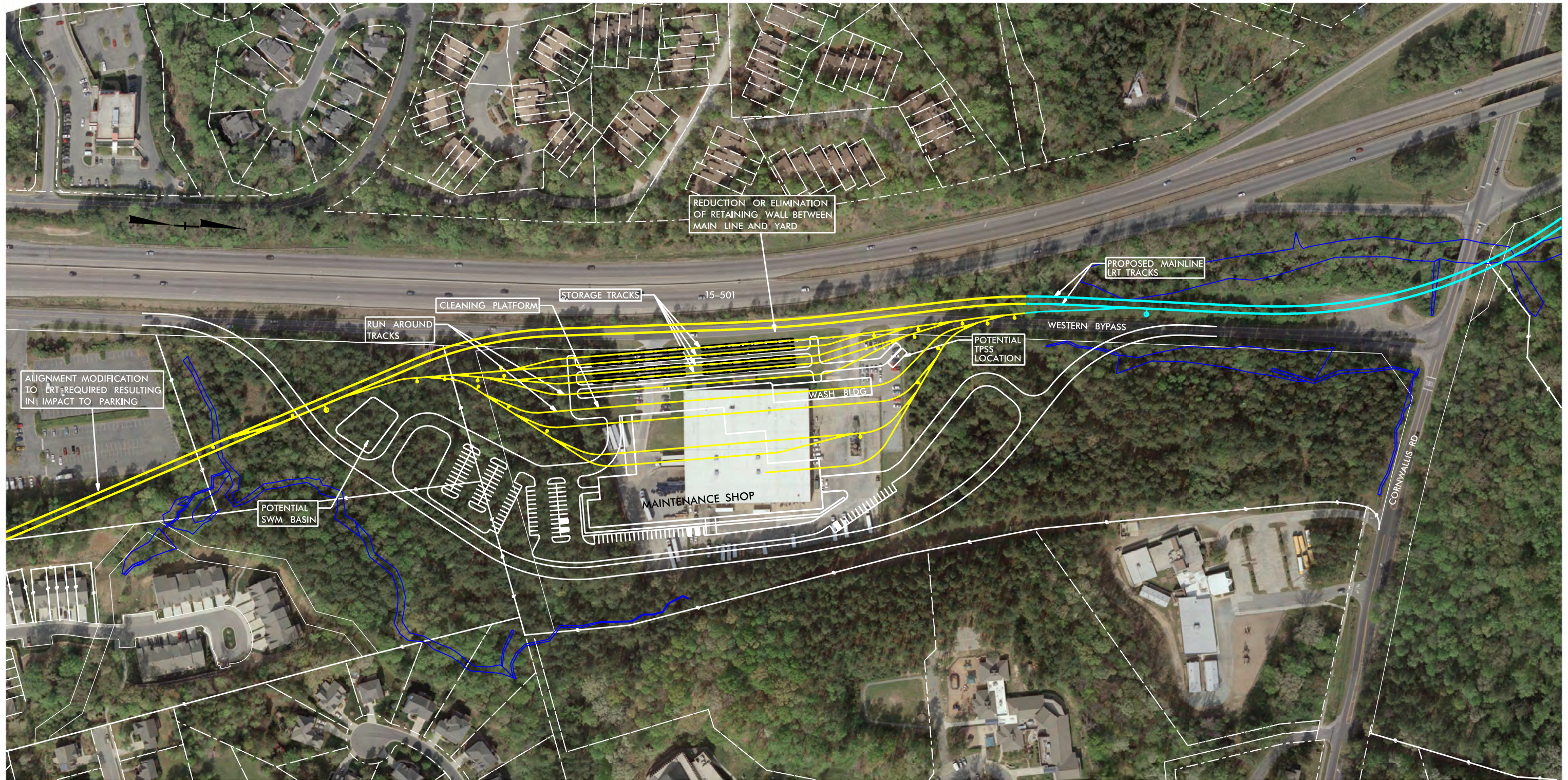
DURHAM - ORANGE CORRIDOR

PATTERSON PLACE
RAIL OPERATIONS MAINTENANCE FACILITY SITE

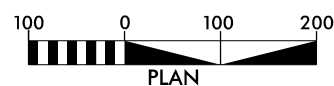
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SHEET:
DO - 03

CORNWALLIS ROAD RAIL OPERATIONS AND MAINTENANCE FACILITY



GRAPHIC SCALES



CONCEPT PLANS ONLY
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

LEGEND

- BRIDGE PIERS
- AT-GRADE TRK
- ELEVATED TRK
- WETLANDS
- STATION



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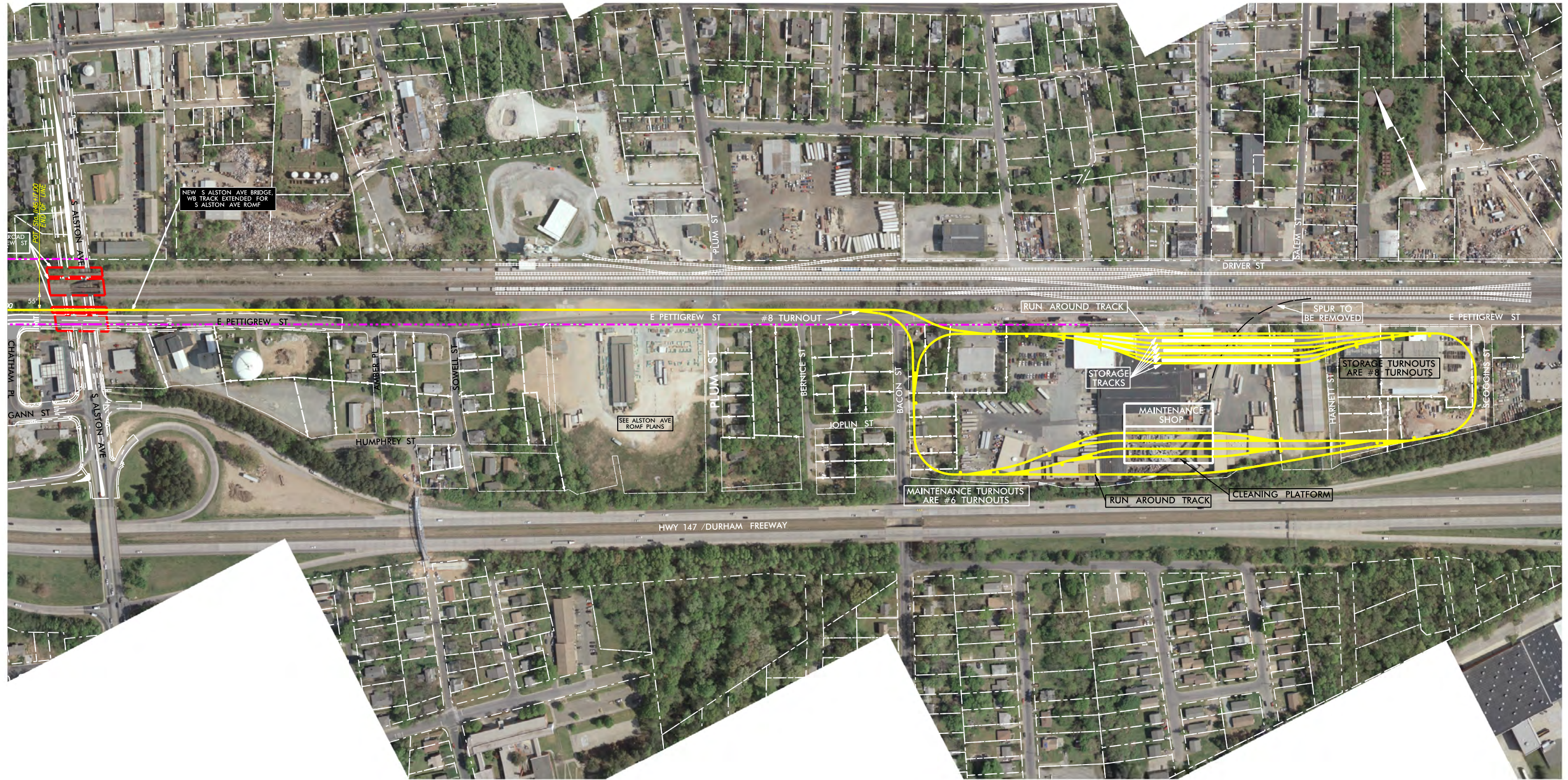
PROPOSED LRT MAINTENANCE FACILITY

DURHAM - ORANGE CORRIDOR
RAIL OPERATIONS MAINTENANCE FACILITY SITE
CORNWALLIS

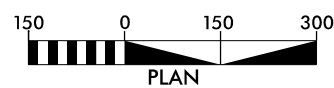
DWG: PLAN

SHEET:
DO - 04

ALSTON AVENUE RAIL OPERATIONS AND MAINTENANCE FACILITY



GRAPHIC SCALES



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LEGEND

- BRIDGE PIERS
- AT-GRADE TRK
- ELEVATED TRK
- WETLANDS
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NC LICENSE #P-0189

PROPOSED LRT MAINTENANCE FACILITY

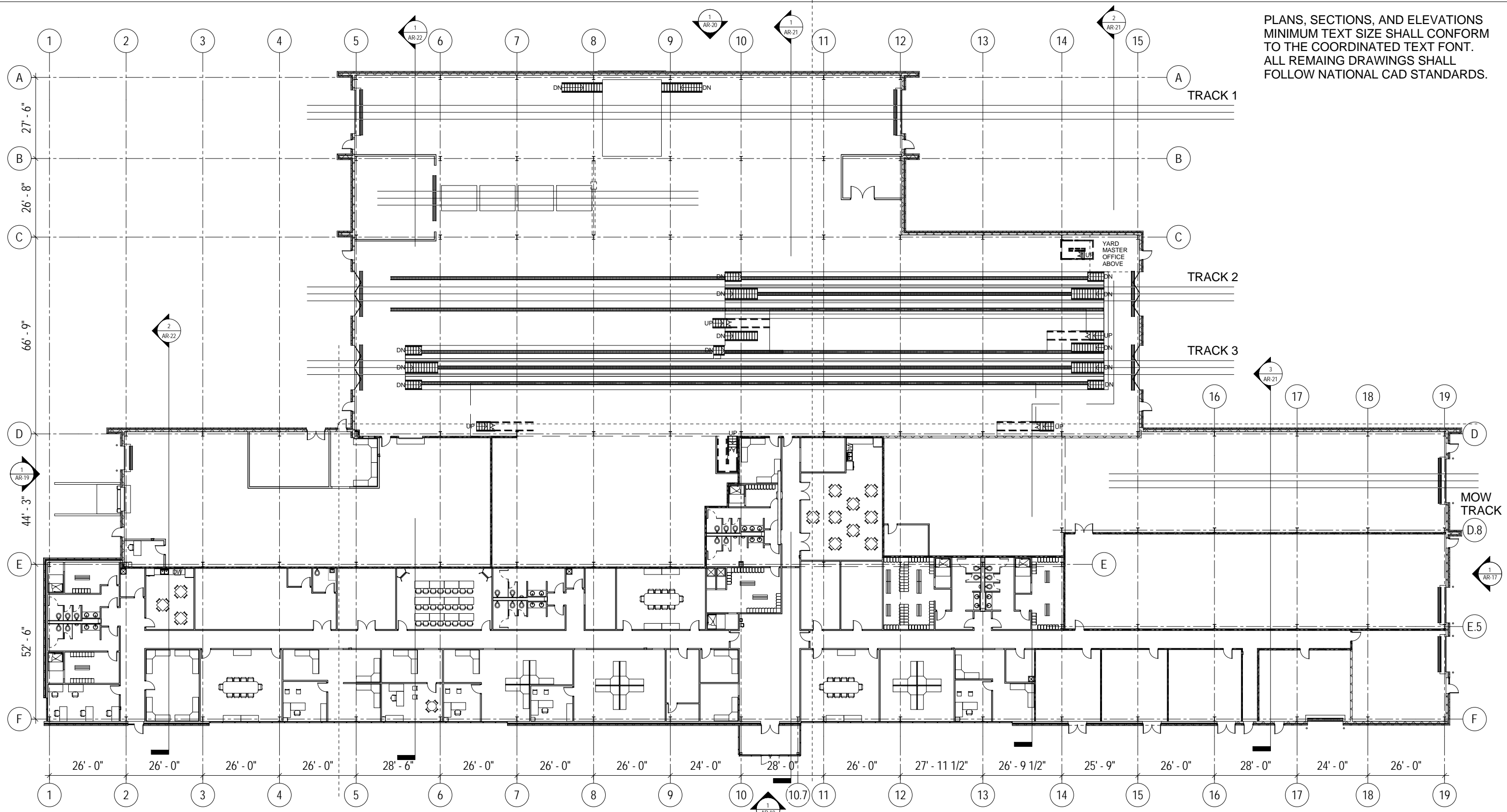
DURHAM - ORANGE CORRIDOR

ALSTON AVENUE
RAIL OPERATIONS MAINTENANCE FACILITY SITE

DWG: LRT ROMF

SHEET:
DO - 05

PLANS, SECTIONS, AND ELEVATIONS
 MINIMUM TEXT SIZE SHALL CONFORM
 TO THE COORDINATED TEXT FONT.
 ALL REMAINING DRAWINGS SHALL
 FOLLOW NATIONAL CAD STANDARDS.



1 OVERALL FLOOR PLAN - GROUND
 AR-07 SCALE: 1/16" = 1'-0"

GRAPHIC SCALE:

 SCALE:
 1/16" = 1'-0"

DESIGNED BY:
 I. SHELTON
 DRAWN BY:
 I. SHELTON
 CHECKED BY:
 DATE:
 01/05/2015

15% PLANS
 SUBJECT TO CHANGE WITHOUT NOTICE
 DO NOT USE FOR CONSTRUCTION

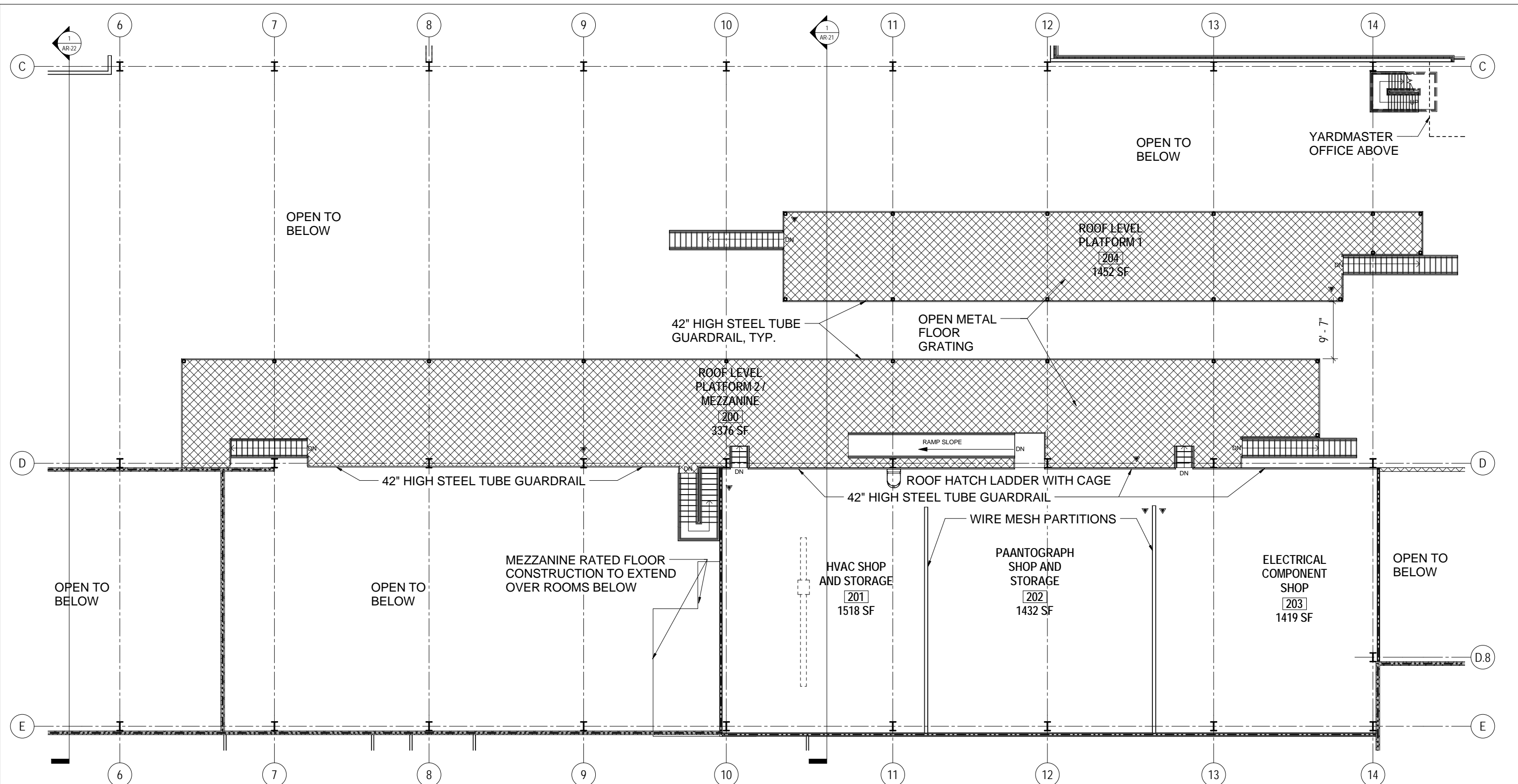
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neighboring
 concepts
 1230 West Morehead Street, Suite 204
 Charlotte, North Carolina 28208
 T:704.374.0916 F:704.342.3808
 www.neighboringconcepts.com
 NC Cert. No. # 51098

DURHAM-ORANGE LIGHT RAIL TRANSIT PROJECT
 RAIL OPERATIONS & MAINTENANCE FACILITY (ROMF)
 AND MAINTENANCE OF WAY (MOW) FACILITY
 OVERALL FLOOR PLAN - GROUND

PROJECT NO.: 2516306
 DRAWING NO.: AR-07
 SHEET NO.: 12 of 181



1 OVERALL FLOOR PLAN - MEZZANINE
 AR-13 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE:

 SCALE:
 1/8" = 1'-0"

DESIGNED BY:
 I. SHELTON
 DRAWN BY:
 I. SHELTON
 CHECKED BY:
 DATE:
 01/05/2015

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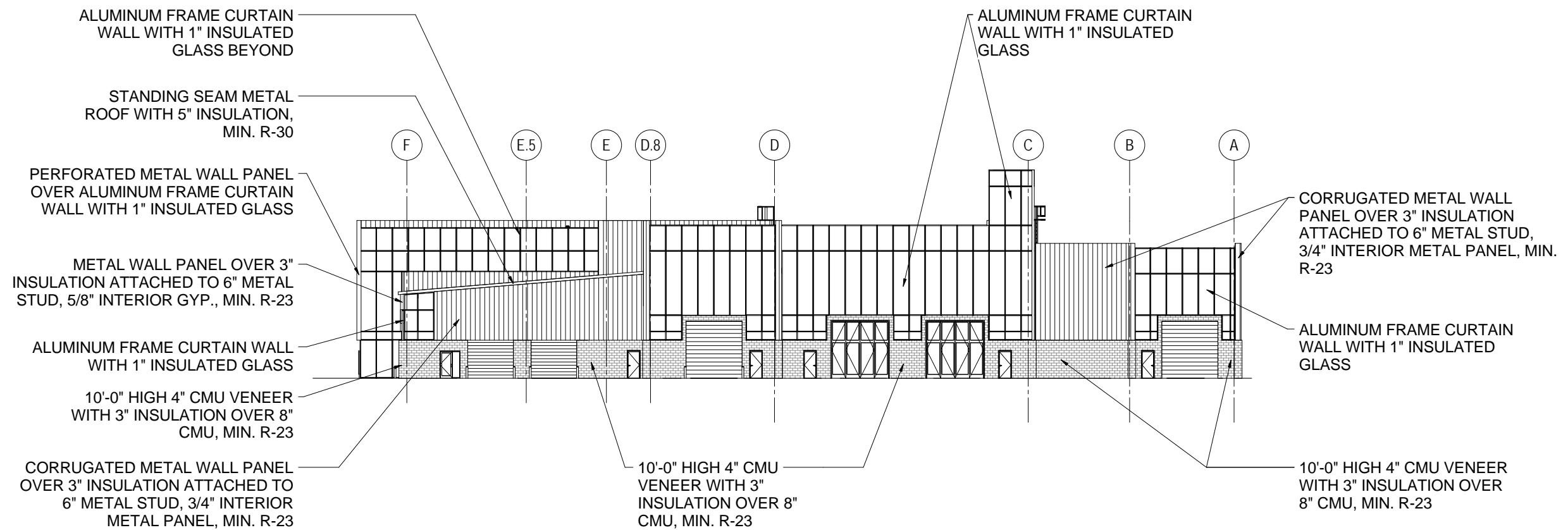
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Our Transit FUTURE

DURHAM-ORANGE LIGHT RAIL TRANSIT PROJECT
 RAIL OPERATIONS & MAINTENANCE FACILITY (ROMF)
 AND MAINTENANCE OF WAY (MOW) FACILITY
 OVERALL FLOOR PLAN - MEZZANINE

PROJECT NO.:	DRAWING NO.:	SHEET NO.:
2516306	AR-13	18 of 181



1 NORTH ELEVATION
AR-17 SCALE: 1/16" = 1'-0"

GRAPHIC SCALE:

 SCALE:
 1/16" = 1'-0"

DESIGNED BY:
I. SHELTON
 DRAWN BY:
I. SHELTON
 CHECKED BY:
 DATE:
01/05/2015

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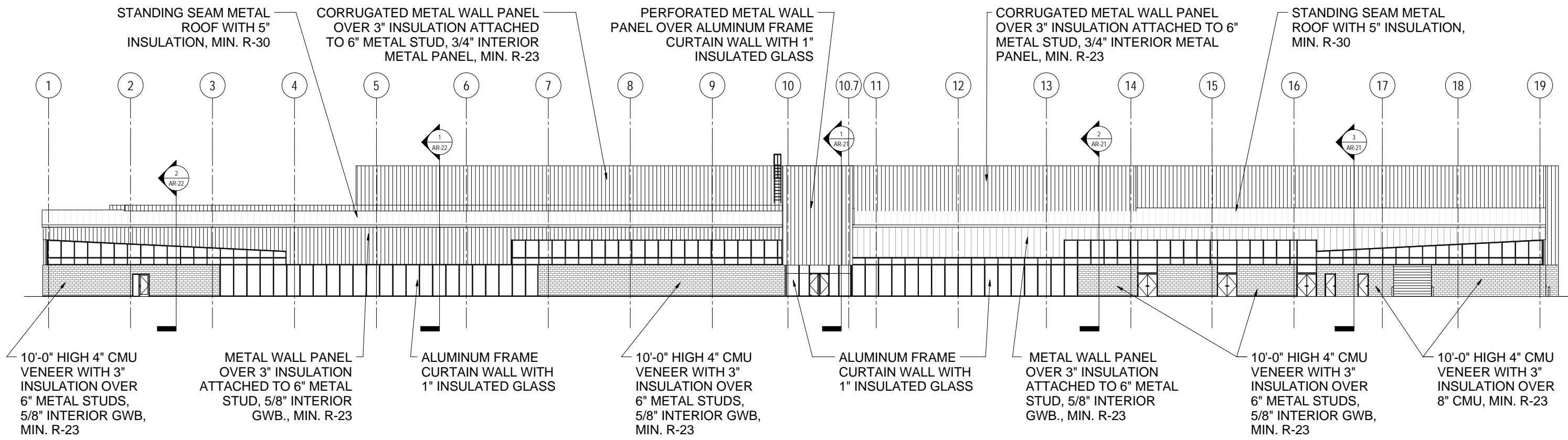
 URS Corporation - North Carolina
 1600 Perimeter Park Drive, Suite 400
 Morrisville, North Carolina 27560
 Phone (919)461-1100 Fax (919)461-1415
 NC Lic.# C-2243

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DURHAM-ORANGE LIGHT RAIL TRANSIT PROJECT
 RAIL OPERATIONS & MAINTENANCE FACILITY (ROMF)
 AND MAINTENANCE OF WAY (MOW) FACILITY
 BUILDING ELEVATION - NORTH

PROJECT NO.:	DRAWING NO.:	SHEET NO.:
2516306	AR-17	22 of 181



1 EAST ELEVATION
AR-18 SCALE: 1/16" = 1'-0"

GRAPHIC SCALE:
0 8' 16' 32'
SCALE:
1/16" = 1'-0"

DESIGNED BY:
I. SHELTON
DRAWN BY:
I. SHELTON
CHECKED BY:
DATE:
01/05/2015

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BUILDING ELEVATION - EAST

PROJECT NO.:	DRAWING NO.:	SHEET NO.:
2516306	AR-18	23 of 181

CORRUGATED METAL WALL PANEL OVER 3" INSULATION ATTACHED TO 6" METAL STUD, 3/4" INTERIOR METAL PANEL, MIN. R-23

ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED LOW-E TINTED GLASS BEYOND

10'-0" HIGH 4" CMU VENEER WITH 3" INSULATION OVER 8" CMU, MIN. R-23

ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED LOW-E TINTED GLASS

DOCK LEVELER WITH BUMPERS AT 4'-0" HIGH LOADING DOCK

10'-0" HIGH 4" CMU VENEER WITH 3" INSULATION OVER 8" CMU, MIN. R-23

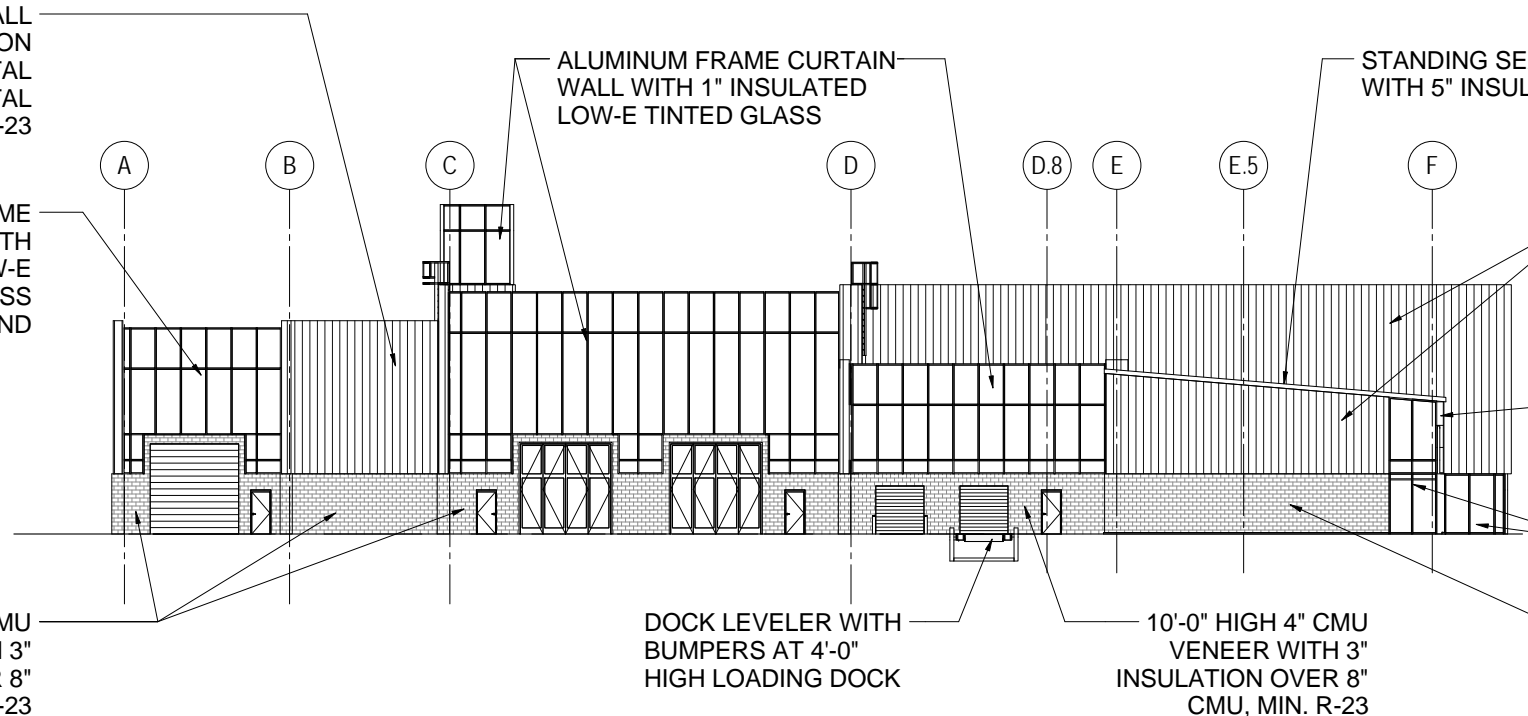
STANDING SEAM METAL ROOF WITH 5" INSULATION, MIN. R-30

CORRUGATED METAL WALL PANEL OVER 3" INSULATION ATTACHED TO 6" METAL STUD, 3/4" INTERIOR METAL PANEL, MIN. R-23

METAL WALL PANEL OVER 3" INSULATION ATTACHED TO 6" METAL STUD, 5/8" GWB, MIN. R-23

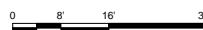
ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED LOW-E TINTED GLASS

10'-0" HIGH 4" CMU VENEER WITH 3" INSULATION OVER 6" METAL STUDS, 5/8" INTERIOR GWB, MIN. R-23



1 SOUTH ELEVATION
AR-19 SCALE: 1/16" = 1'-0"

GRAPHIC SCALE:



SCALE:

1/16" = 1'-0"

DESIGNED BY:
I. SHELTON

DRAWN BY:
I. SHELTON

CHECKED BY:

DATE:
01/05/2015

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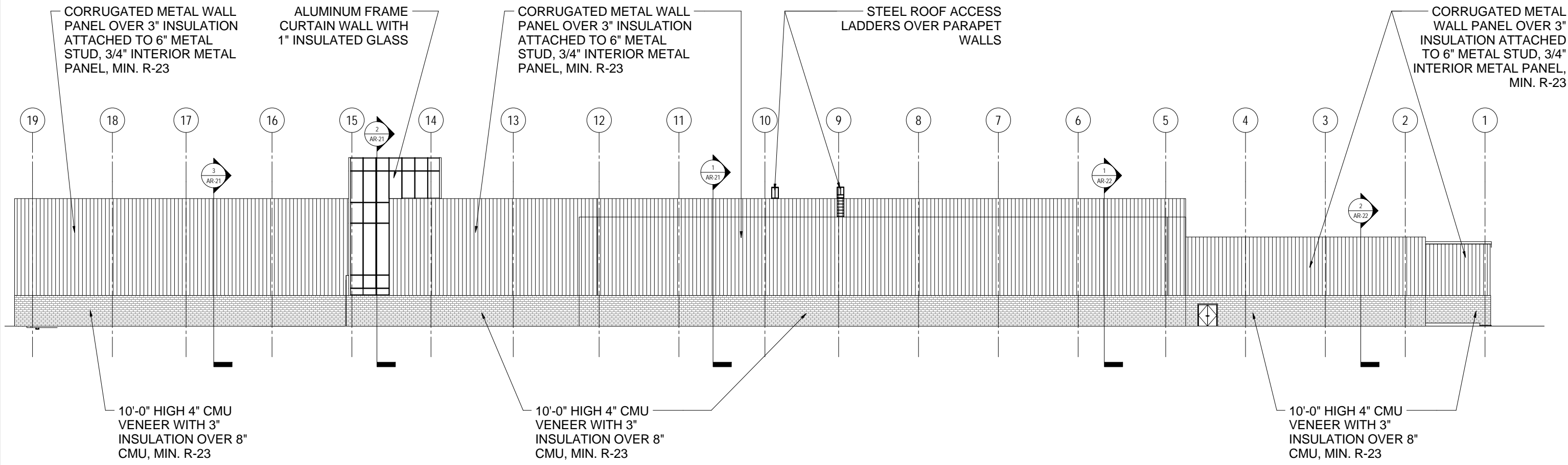


DURHAM-ORANGE LIGHT RAIL TRANSIT PROJECT
RAIL OPERATIONS & MAINTENANCE FACILITY (ROMF)
AND MAINTENANCE OF WAY (MOW) FACILITY
BUILDING ELEVATION - SOUTH

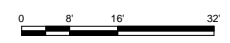
PROJECT NO.:
2516306

DRAWING NO.:
AR-19

SHEET NO.:
24 of 181



1 WEST ELEVATION
AR-20 SCALE: 1/16" = 1'-0"

GRAPHIC SCALE:

 SCALE:
 1/16" = 1'-0"

DESIGNED BY:
I. SHELTON
 DRAWN BY:
I. SHELTON
 CHECKED BY:
 DATE:
01/05/2015

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 BUILDING ELEVATION - WEST

PROJECT NO.:	DRAWING NO.:	SHEET NO.:
2516306	AR-20	25 of 181