Basis for Engineering Design

DEIS Appendix – L
Volume 3 of 3

Durham-Orange Light Rail Transit Project

February 2015
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- Project Corridor Map
- Key Plan Sheet

**Typical Sections**

- Typical Ballast, Embedded Track, and Retained Earth Sections
- Typical Aerial Sections
- Cut and Fill Sections on I-40, NC-54, and US 15-501
- Special Typical Sections on US 15-501
- Typical Street Running, and At-Grade Center Platform Station Sections
- At-Grade Center Platform Station Sections in the Median
- At-Grade Side Platform Station Sections
- Typical Ballast Track Sections Next to NCRR
- Typical Embedded Track Sections Next to NCRR

**Roadway Modifications**

- Leigh Village Future Roadway Plan
- Larchmont Connector
- Cameron Blvd
- Elba Street Roundabout

**Statement of the Office of**

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Research Triangle Park, NC 27709
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Morrisville, North Carolina 27560
1600 Perimeter Park Drive, Suite 400

Our Transit
Prepared for the Office of

DURHAM-ORANGE CORRIDOR
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Ballast Track
(Typical Cut Condition at Left and Typical Fill Condition at Right)

**Section 02**
Embedded Track

**Section 03**
Retained Earth

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25-foot Wide Center Platform at Retained Earth Station (Ninth Street Station)
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Section 06: Long-Span Aerial

Section 07: Aerial Over Floodplain/Wetlands

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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 Lykan Parkway (NCH-1 Alternative, North of Garrett Road) with additional Outside North-Bound Lane Widening

Durham-Orange Light Rail Project
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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)

Durham-Orange Light Rail Project
17-B, 17-C - AT-GRADE CENTER PLATFORM STATION
SECTIONS IN THE MEDIAN

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Section 18
15-foot Wide Side Platform

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

Durham-Orange Light Rail Project
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Embedded Track Adjacent to NCRR - Cut Condition

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

Durham-Orange Light Rail Project
22, 23 - TYPICAL EMBEDDED TRACK SECTIONS
NEXT TO NCRR

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EXISTING ROAD AND ROW
TO BE ABANDONED

LEIGH VILLAGE FUTURE ROADWAY PLAN
STATION / PLATFORM PLANS
Proposed Hamilton Road Station
(C2A Alternative)
Illustrative Plan

Durham - Orange LRT Corridor

March 12, 2015

OurTransit FUTURE
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

Vertical Circulation Including Two Elevators and Two Staircases

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)

Existing Park-and-Ride Lot

Special Shuttle Pullout

William and Ida Friday Center for Continuing Education

Boyd Golf Course

Bicycle Storage Racks for 50 Bicycles

Feeder Bus Pullout

Courtyard Chapel & Hill

Reconfigured Driveway and Parking

Existing Property Boundaries

UNC Finley Golf Course

Meadowmont Village

Aerial LRT Tracks and Station Platform Above

Aerial LRT Guideways

Aerial LRT Guideway Support Columns

LRT Tracks on Fill

Drop-Off / Pick-Up Area with 8 Spaces

March 7, 2015
Existing Trail Underpass at Hwy. 54 Provides Link to Meadowmont Village
Underpass Extension Under LRT Corridor

Franklin Street Building

Bicycle Storage Racks for 50 Bicycles

Meadowmont Village

Raleigh Road / NC Hwy. 54

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

Signal House #2 with Two Parking Spaces for Maintenance Staff

Drop-Off / Pick-Up Area with 10 Spaces

Feeder Bus Pullout

Courtyard Chapel Hill

Friday Center Drive

Marriott Way

Proposed Friday Center Drive Station
(C2A Alternative)
Illustrative Plan

Durham - Orange LRT Corridor

March 7, 2015

Our Transit Future
Proposed Patterson Place Station
(NHC 1 & NHC 2 Alternatives)
Illustrative Plan

Durham - Orange LRT Corridor

February 19, 2015

Our Transit Future
Proposed South Square Station
Illustrative Plan - Lower Level
Durham - Orange LRT Corridor

March 8, 2015

URS

SHEET: STA - 17
Proposed Ninth Street Station
Illustrative Plan - Lower Level
Durham - Orange LRT Corridor

- Existing RR Corridor ROW (Purple Lines)
- Vertical Circulation Core with 2 Elevators and Staircase
- Feeder Bus Pullout
- Wells Fargo Bank
- Feeder Bus Pullout
- Existing RR Bridge
- Aerial LRT Guideways and Support Columns
- LRT Tracks and Platform on Fill
- Existing Property Boundaries
- Staircase
- Stormwater Detention Area
- Durham Freeway
- Erwin Road
- Drop-Off/Pick-Up Area with 5 Spaces
- Bicycle Storage Racks for 50 Bicycles
- Exxon Gas Station
- Highway 147
- Pettigrew Street
- Sunnyside House & D+K
- PW House
- LRT Station Site Summary:
  - LRT Station Site Located West of Erwin Road, South of RR Corridor
  - Parking and Drop-Off/Pick-Up Site Area = 29,000 SF
Proposed Durham Station Illustrative Plan
Durham - Orange LRT Corridor

March 27, 2015

OurTransit FUTURE

URS

0 100 200 Feet

Amtrak Station

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

Reconfigured Drop-Off and Taxi Stand Areas

Existing RR Corridor ROW (Purple Lines)

Existing Property Boundaries (White Lines)

WB Buses to Transit Center Use WB LRT Corridor

EB Buses from Transit Center Use Pettigrew ST

Ramseur Street

Existing RR Tracks

LRT Tracks in Cut

Chapel Hill Street

North Carolina Mutual Life Insurance Company

Replaced Existing Concrete Wall

Reconfigured ADA Ramp and Canopy

Bicycle Storage Racks for 30 Bicycles

Reconfigured Stairs and ADA Ramp

Durham Station Transit Center

American Tobacco North Parking

American Tobacco Campus

Whetstone Apartments
**SUMMARY**

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<th>6-Level Parking Deck</th>
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<td>With Parking + LRT Space</td>
<td>= 92 Spaces</td>
<td>= 112 Spaces</td>
<td>= 134 Spaces</td>
<td>= 134 Spaces</td>
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<td>5 Ramps</td>
<td>5 x 46 = 230 Spaces</td>
<td>Total = 975 Spaces Including 20 ADA Spaces</td>
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<td>= 92 Spaces</td>
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**Level 1**
Flat Area Total = 92 Parking Spaces

**Level 2**
- Option 1: With Parking + LRT Space
  Flat Area Total = 112 Parking Spaces
- Option 2: With Commercial Space
  Flat Area Total = 74 Parking Spaces

**Level 6**
Flat Area Total = 142 Parking Spaces

**Levels 3, 4, and 5**
Flat Area Total for Each Level = 134 Parking Spaces
ALSTON AVENUE RAIL OPERATIONS AND MAINTENANCE FACILITY

PROPOSED LRT MAINTENANCE FACILITY
DURHAM – ORANGE CORRIDOR
ALSTON AVENUE
RAIL OPERATIONS MAINTENANCE FACILITY SITE

LEGEND
BRIDGE PIERS
AT-GRADE TRK
ELEVATED TRK
WETLANDS
STATION

CONCEPT PLANS ONLY
DO NOT USE FOR CONSTRUCTION
INQUIRIES TO 919-788-0224

GRAPHIC SCALES

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

0 50 100 150
PLAN 300

1/20/2015
SHEET:
DO – 05

300 Perimeter Park Drive, Suite 400
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Phone (919) 461-1100  Fax (919) 461-1415
NC Lic. # C-2243
Prepared in the Office of
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URS Corporation – North Carolina
100 Pendergrass Drive, Suite 200
Morrisville, North Carolina 27560
Phone (919) 788-UTC1 (888-788-9981)
NC Lic. # P0189

CH ENGINEERING
222 East Franklin Street, Suite 320
RALEIGH, NC 27601
TELE 919-382-2224  FAX 919-382-2223
NC Lic. # E-20189

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

STATION

1145+00
1146+00

RUN AROUND TRACK
BE REMOVED
SPUR TO
ARE #6 TURNOUTS
MAINTENANCE TURNOUTS
TRACKS
STORAGE

ALSTON AVENUE RAIL OPERATIONS AND MAINTENANCE FACILITY

NEW ALSTON AVE BRIDGE, ROMF PLANS SEE ALSTON AVE BRIDGE BY NCDOT BRIDGES AND E PETTIGREW ST U-3308 PROPOSED RAILROAD 3503 3505 2

BERNICE ST
SCOTT ST
BACON ST
STAN ANDERSON ST
JO PLIN ST
PLUM ST
DRIVER ST
E PETTIGREW ST
H W Y 147 / D U R H A M F R E E W A Y
CLEANING PLATFORM
RUN AROUND TRACK
STORAGE TURNOUTS
ARE #8 TURNOUTS

GRAPHIC SCALES

150 50 100
PLAN 200

ALSTON AVE ROMF TRACK EXTENDED FOR NEW ALSTON AVE BRIDGE, ROMF PLANS SEE ALSTON AVE BRIDGE BY NCDOT BRIDGES AND E PETTIGREW ST U-3308 PROPOSED RAILROAD 3503 3505 2
OVERALL FLOOR PLAN - MEZZANINE

OPEN TO BELOW

MEZZANINE RATED FLOOR CONSTRUCTION TO EXTEND OVER ROOMS BELOW

42" HIGH STEEL TUBE GUARDRAIL, TYP.

OPEN TO BELOW

OPEN METAL FLOOR GRATING

42" HIGH STEEL TUBE GUARDRAIL

ROOF HATCH LADDER WITH CAGE

WIRE MESH PARTITIONS

MAC SHOP AND STORAGE [331] 3376 SF

PAANTOGRAPH SHOP AND STORAGE [201] 1419 SF

ELECTRICAL COMPONENT SHOP [203] 1518 SF

OVERALL FLOOR PLAN - MEZZANINE

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

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

Prepared in the Office of:

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

Designed by:

DRAWN BY:

DATE:

DESIGNED BY:

DRAWN BY:

DATE:

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ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED GLASS BEYOND

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

PERFORATED METAL WALL PANEL OVER ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED GLASS

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

ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED GLASS

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

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

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

PERFORATED METAL WALL PANEL OVER ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED GLASS

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

ALUMINUM FRAME CURTAIN WALL WITH 1" INSULATED GLASS

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

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