

# Basis for Engineering Design

DEIS Appendix – L  
Volume 2 of 3

Durham-Orange Light Rail Transit Project



**February 2015**

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**DURHAM-ORANGE CORRIDOR**  
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**VOLUME 2**

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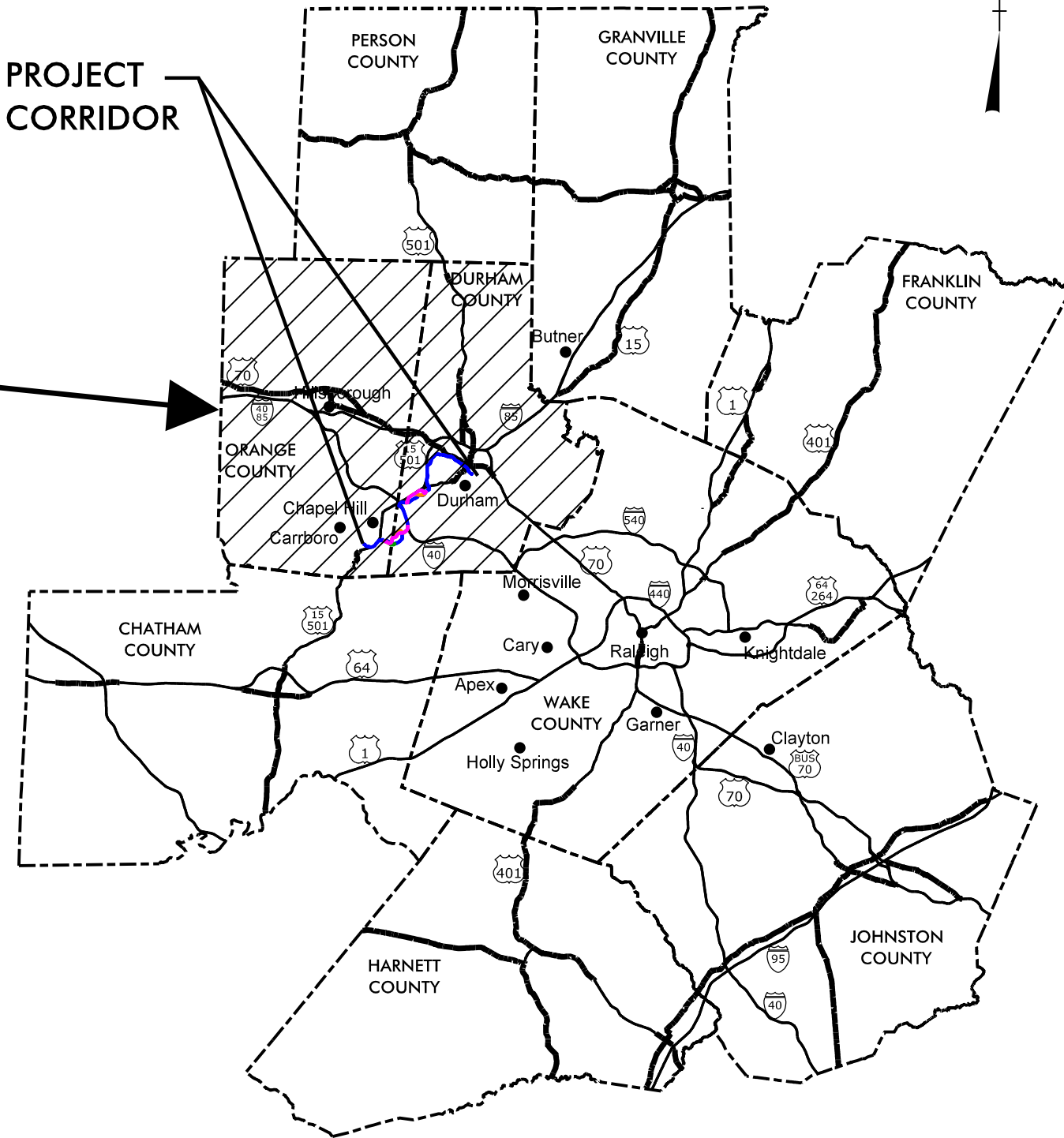
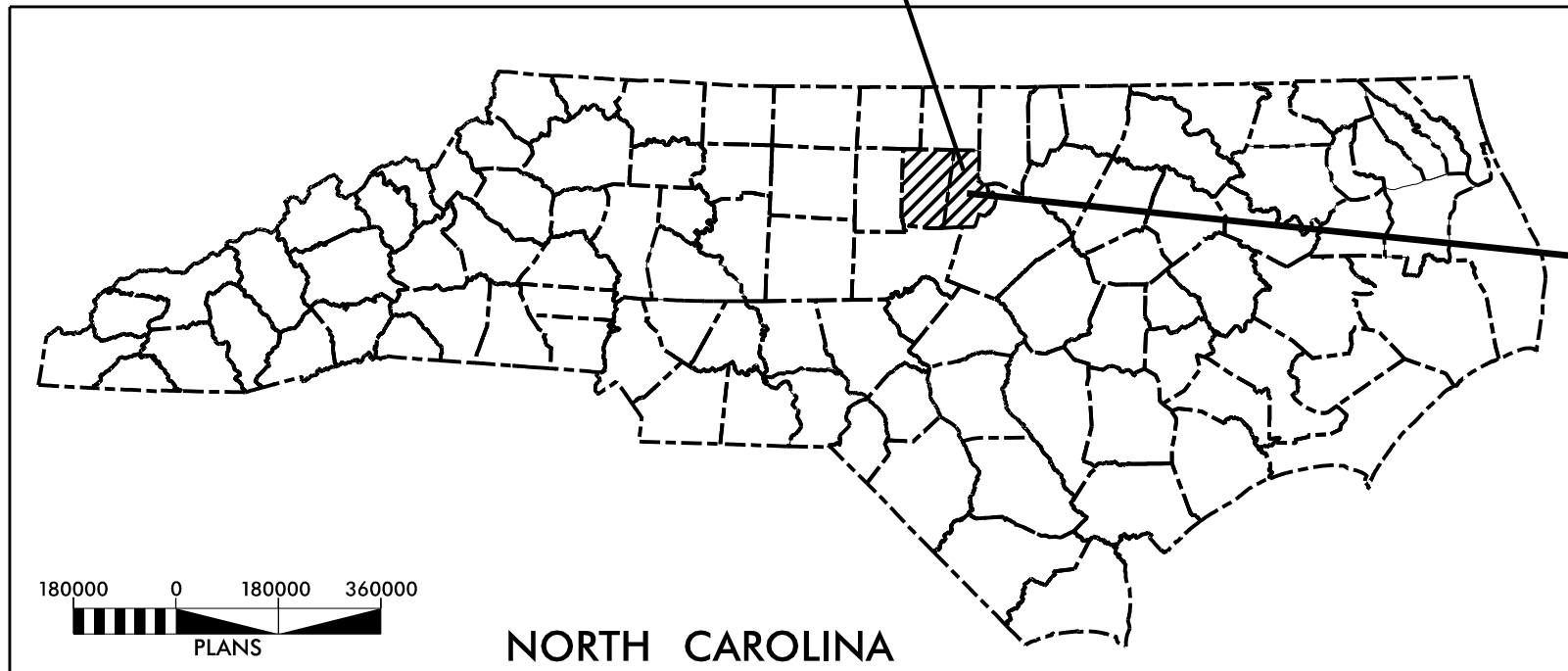


# LOCATION MAP



PROJECT LOCATION

PROJECT CORRIDOR



**GRAPHIC SCALES**



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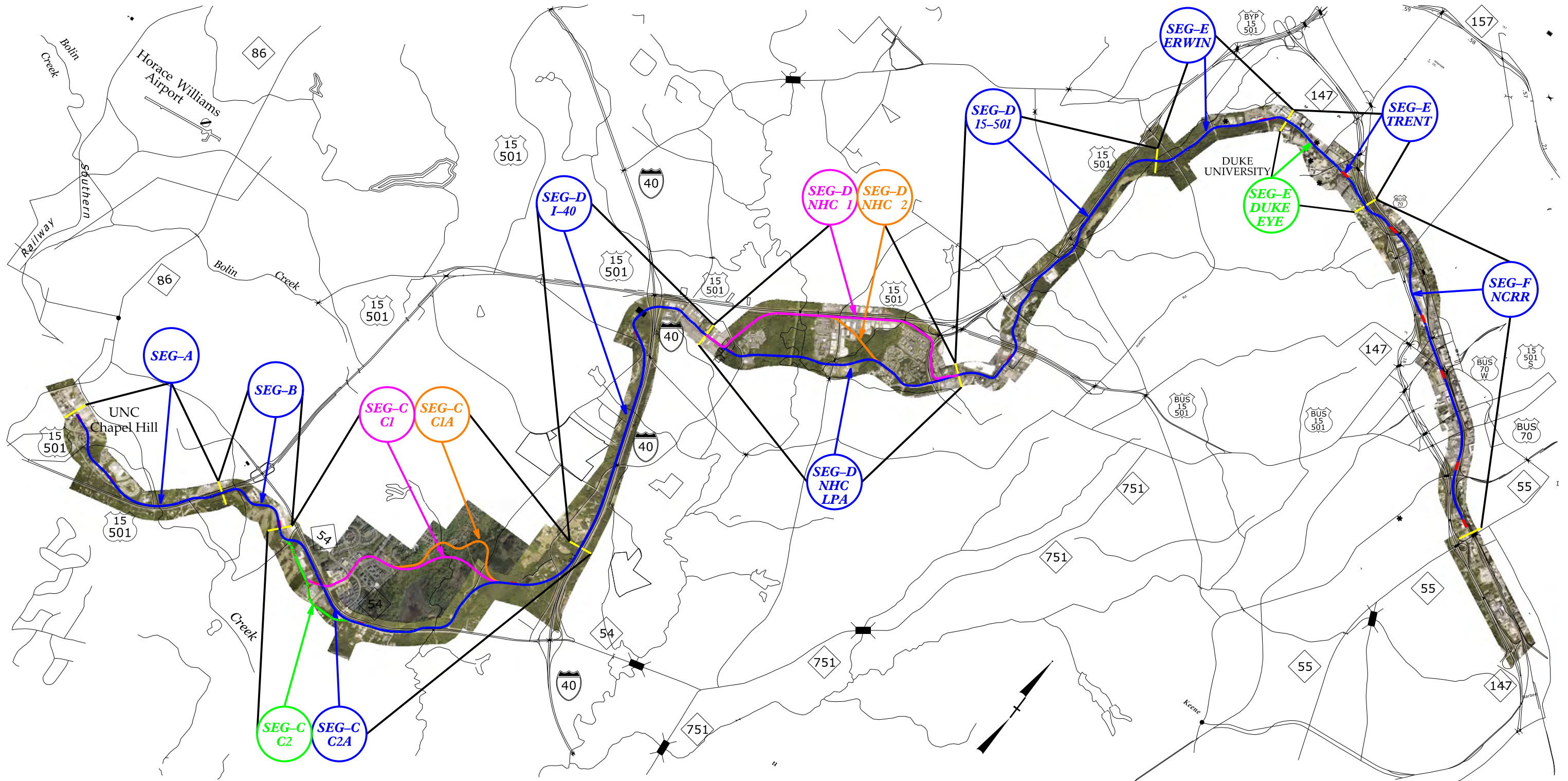
**UNC HOSPITALS TO ALSTON AVE**

**DURHAM-ORANGE CORRIDOR  
PROJECT CORRIDOR MAP**

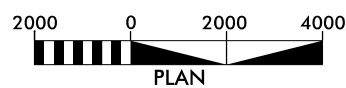
**DWG: LOCATION  
MAP**

**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

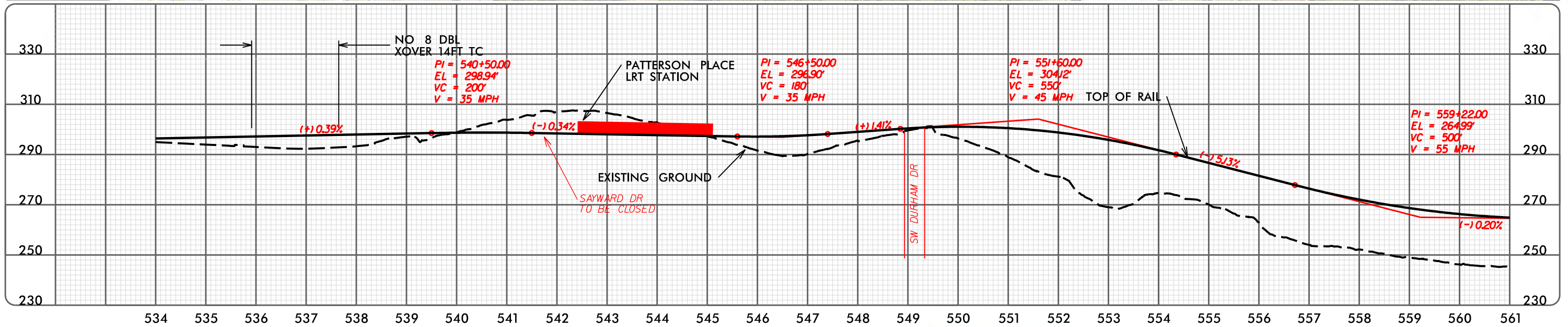
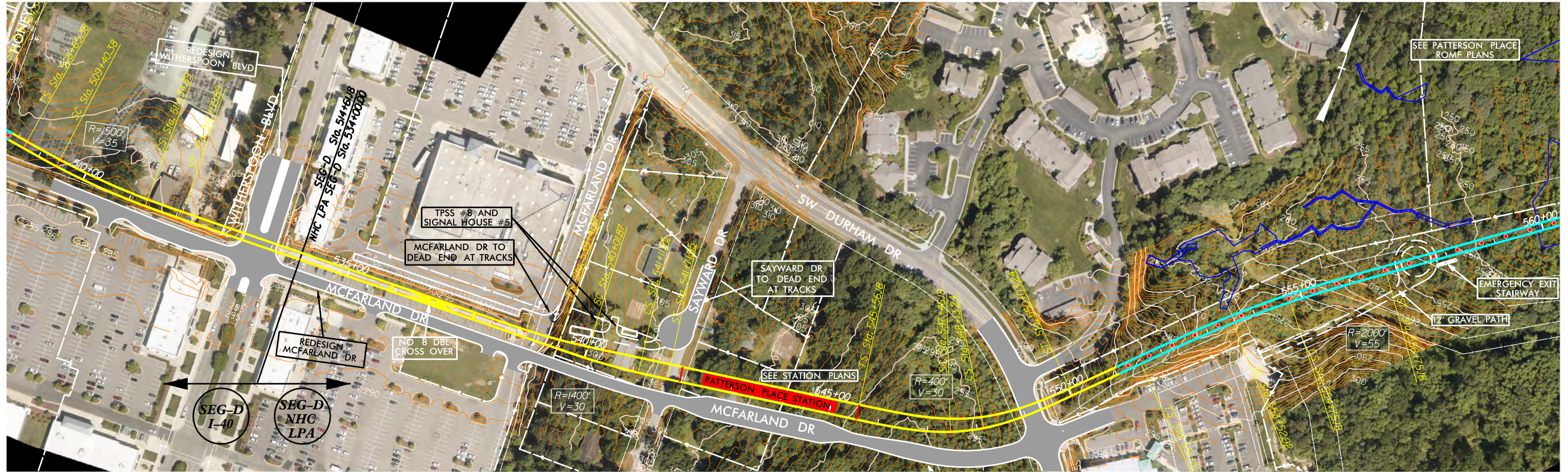
# SEGMENT D – NEW HOPE CREEK LOCALLY PREFERRED ALTERNATIVE

## PLAN AND PROFILE SHEETS

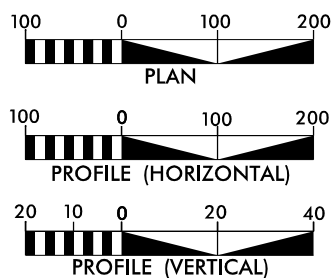




# PATTERSON PLACE STATION - NEW HOPE CREEK LPA



### GRAPHIC SCALES



CONCEPT PLANS ONLY  
DO NOT USE FOR CONSTRUCTION  
INCOMPLETE PLANS  
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### LEGEND

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



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### PLAN AND PROFILE

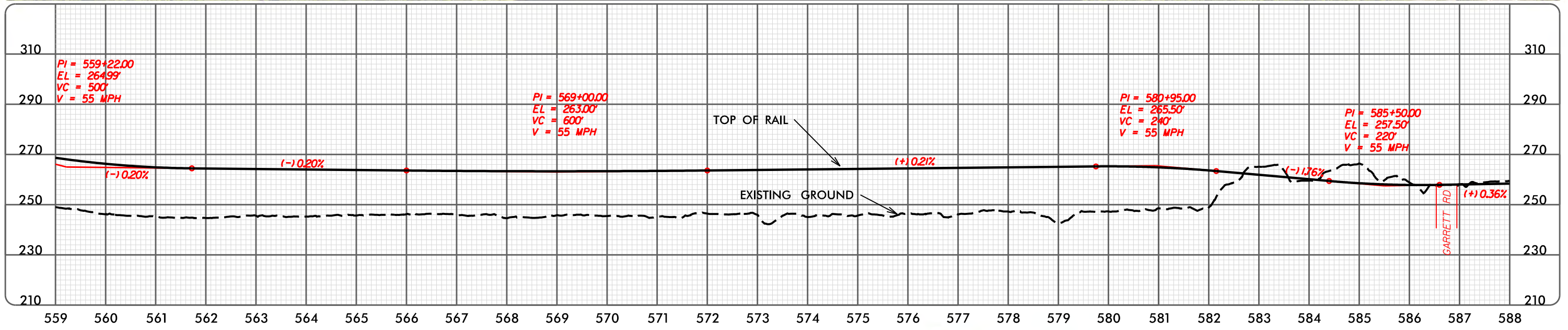
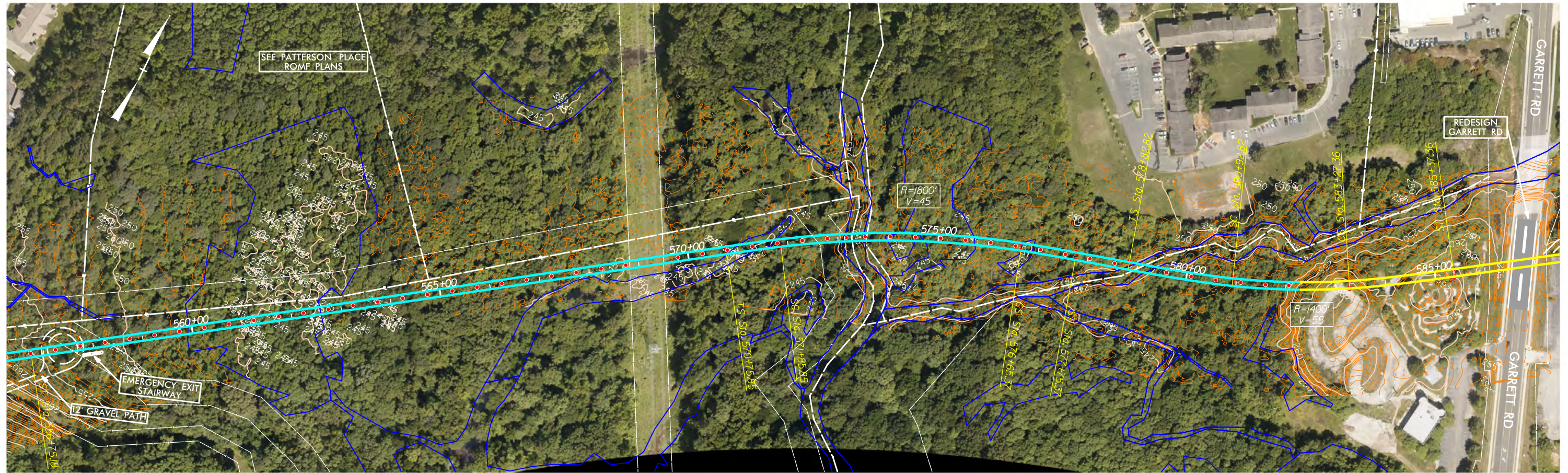
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PROFILE

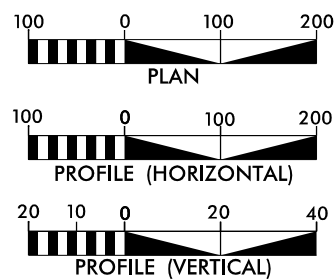
SHEET:  
D - 06



# GARRETT ROAD - NEW HOPE CREEK LPA



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

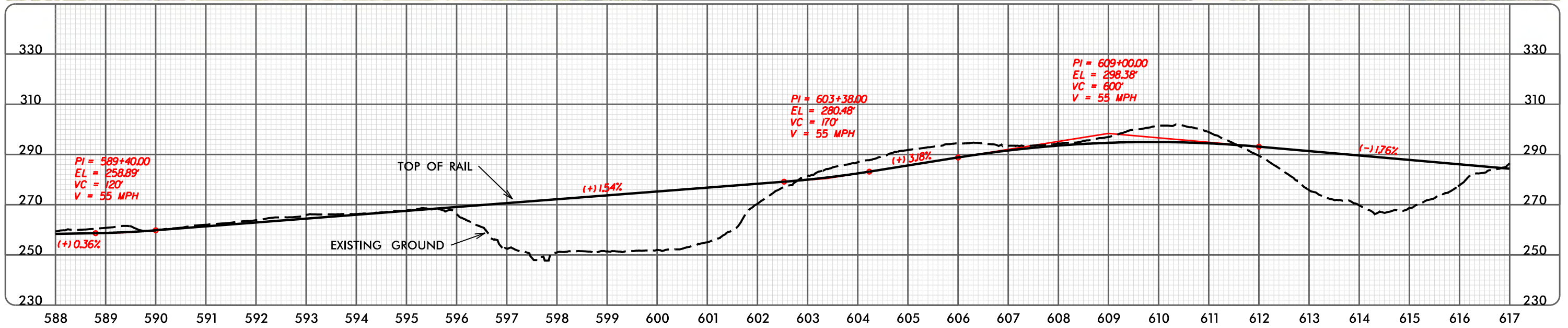
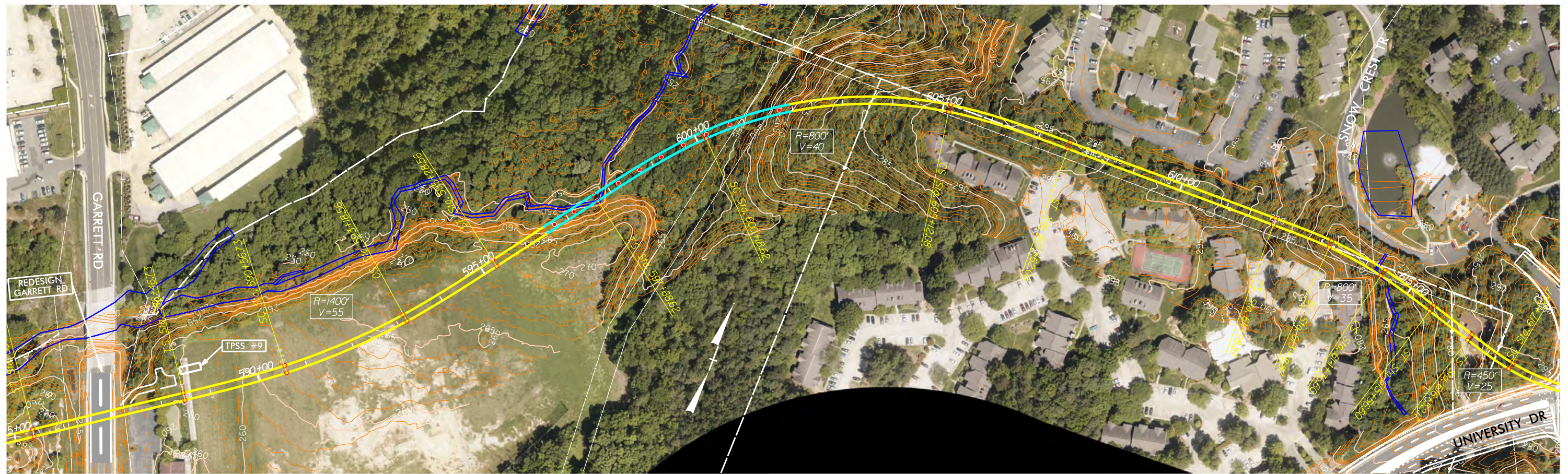
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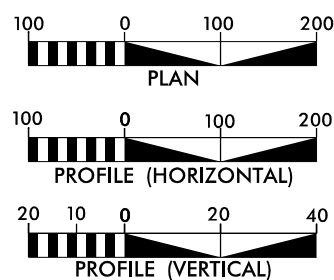
SHEET:  
D - 07



# GARRETT ROAD - NEW HOPE CREEK LPA



### GRAPHIC SCALES



**CONCEPT PLANS ONLY**  
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**INCOMPLETE PLANS**  
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### LEGEND

- BRIDGE PIERS
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### PLAN AND PROFILE

#### SEGMENT D

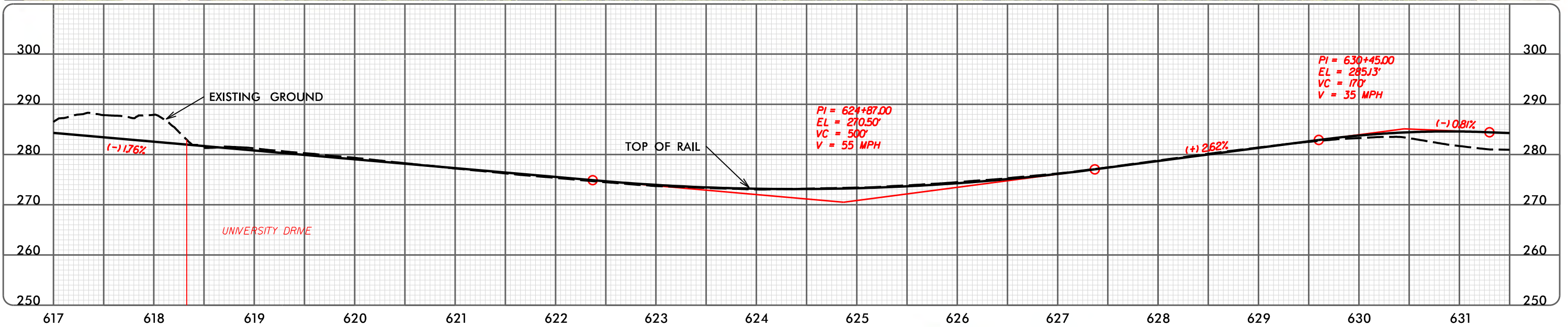
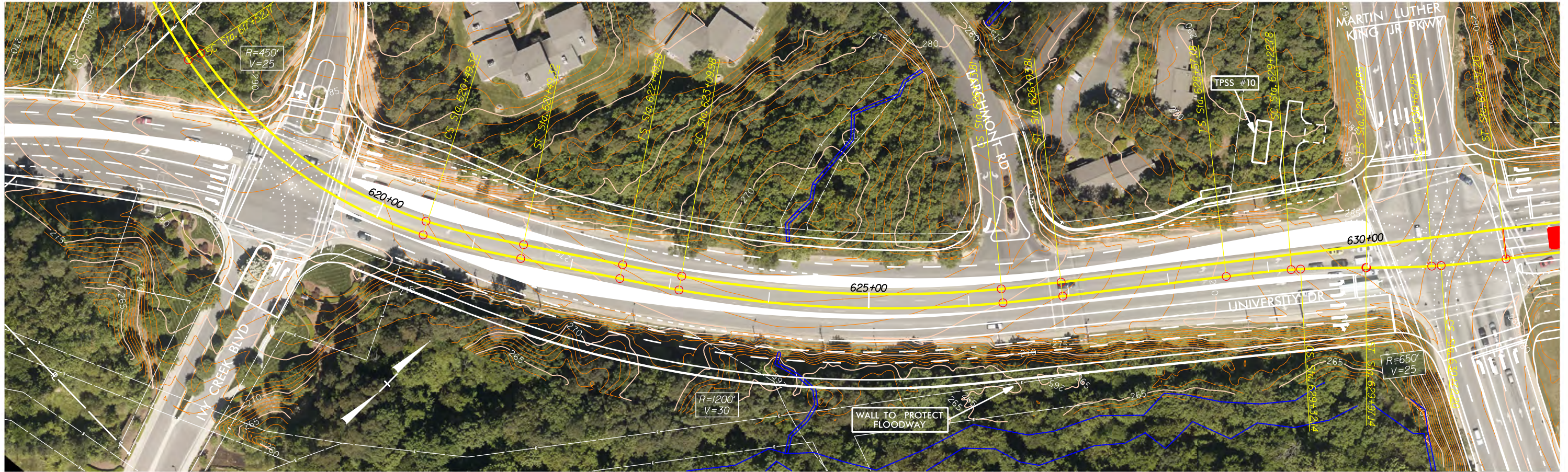
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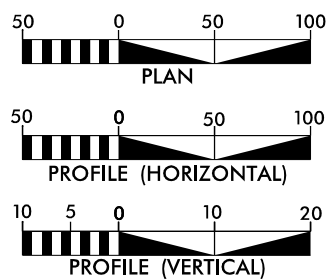
4/6/2015



# UNIVERSITY DRIVE - NEW HOPE CREEK LPA



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

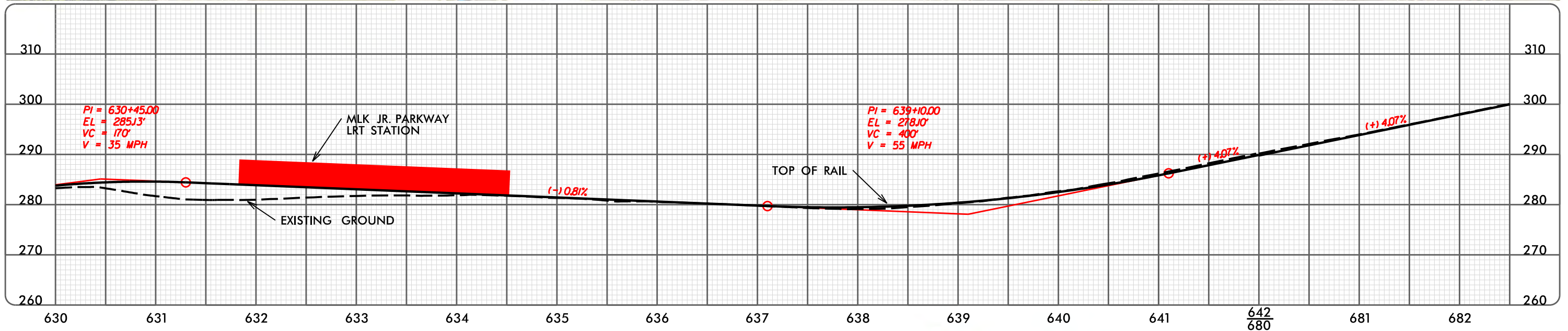
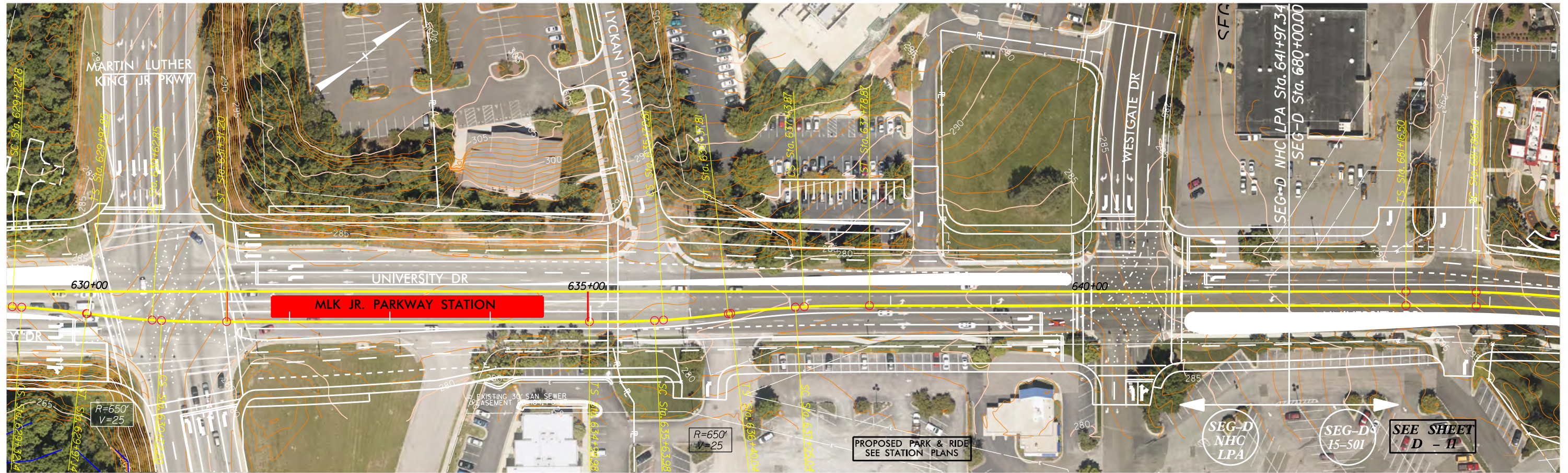
SEGMENT D

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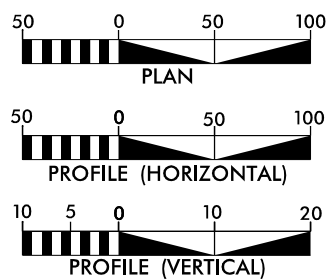
SHEET:  
D - 09



# MLK JR. PARKWAY STATION - NEW HOPE CREEK LPA



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### PLAN AND PROFILE

#### SEGMENT D

PLAN &  
PROFILE

SHEET:  
D - 10



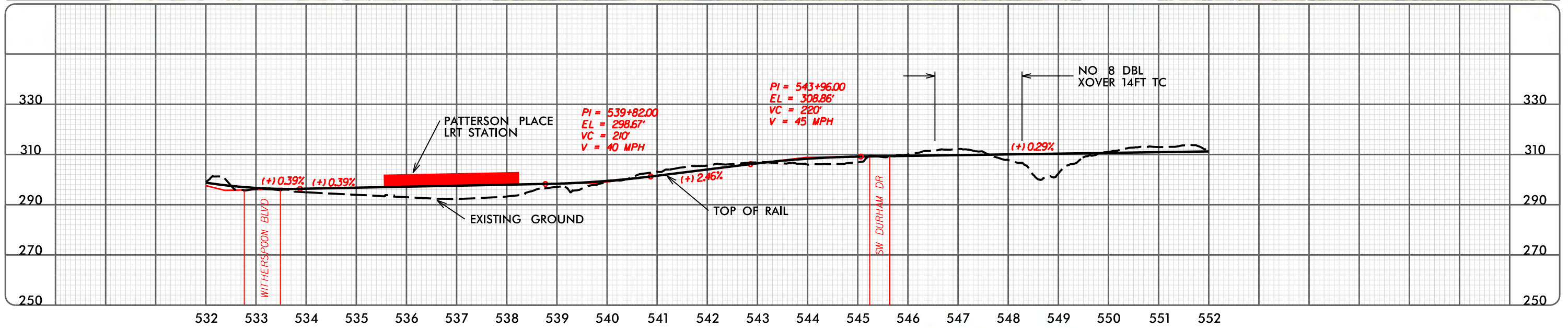
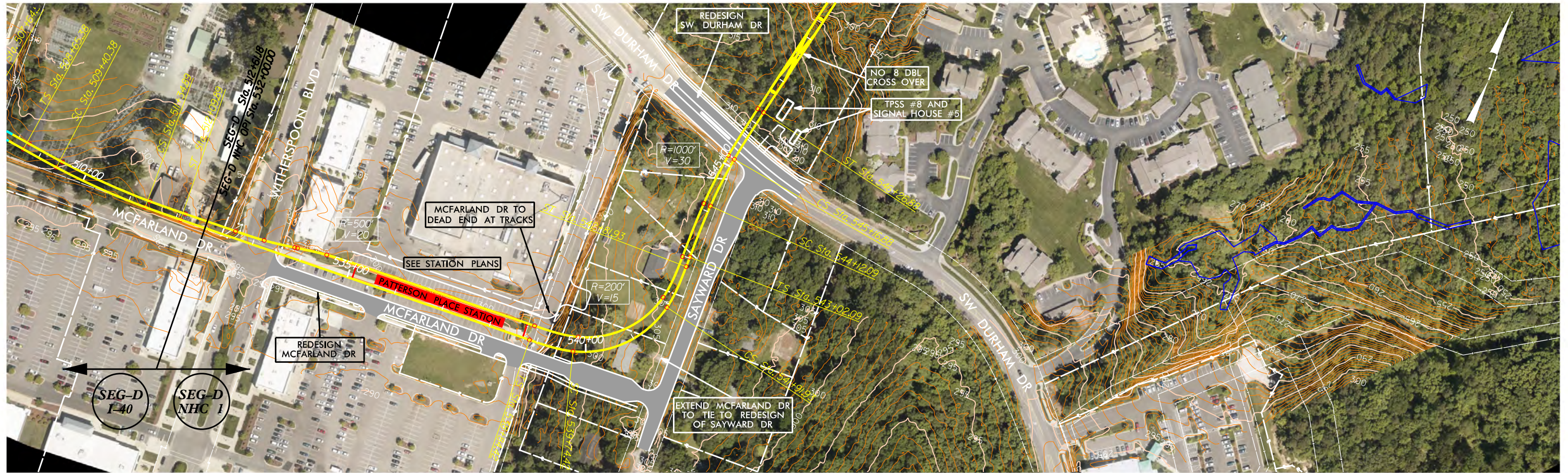
# SEGMENT D – NEW HOPE CREEK 1 ALTERNATIVE

PLAN AND PROFILE SHEETS

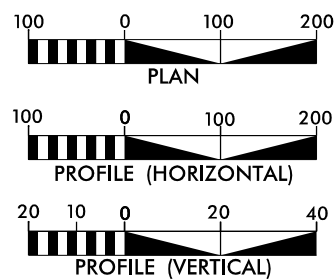




# PATTERSON PLACE STATION - NEW HOPE CREEK 1 ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

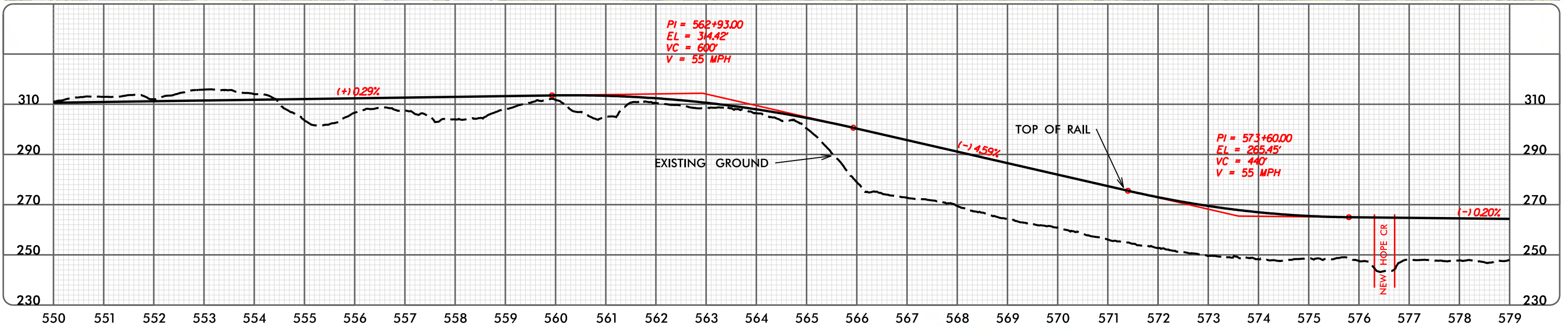
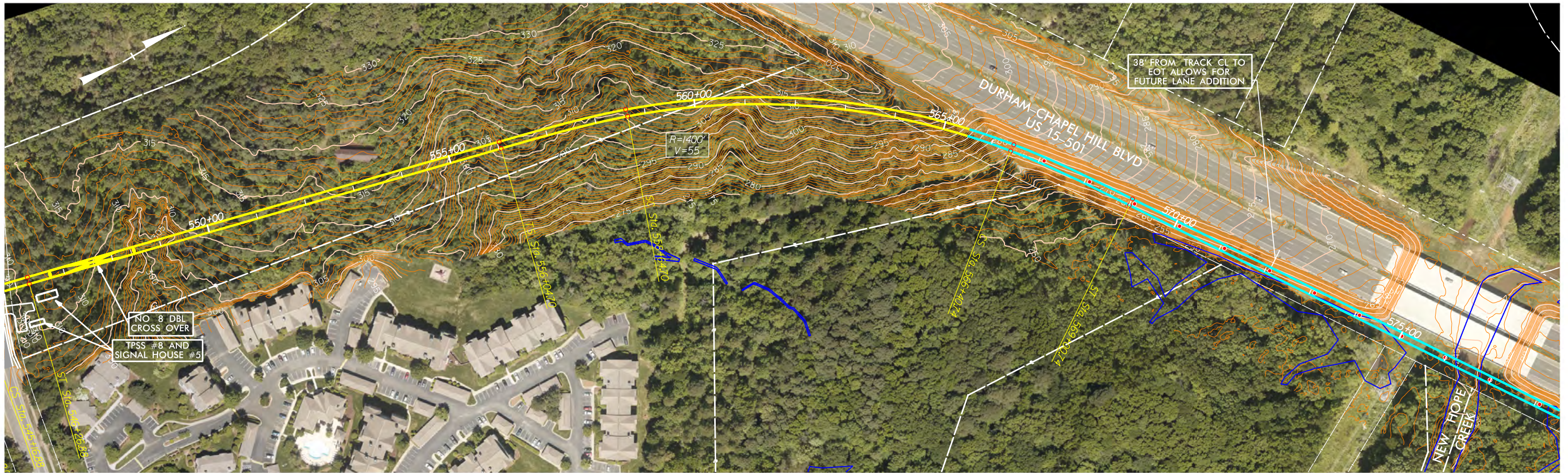
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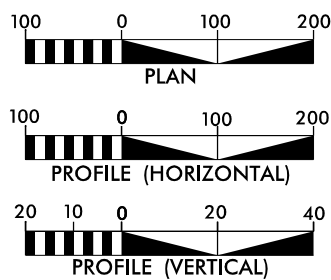
SHEET:  
D1 - 06



# ALONG U.S. ROUTE 15-501 - NEW HOPE CREEK 1 ALTERNATIVE



### GRAPHIC SCALES



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### PLAN AND PROFILE

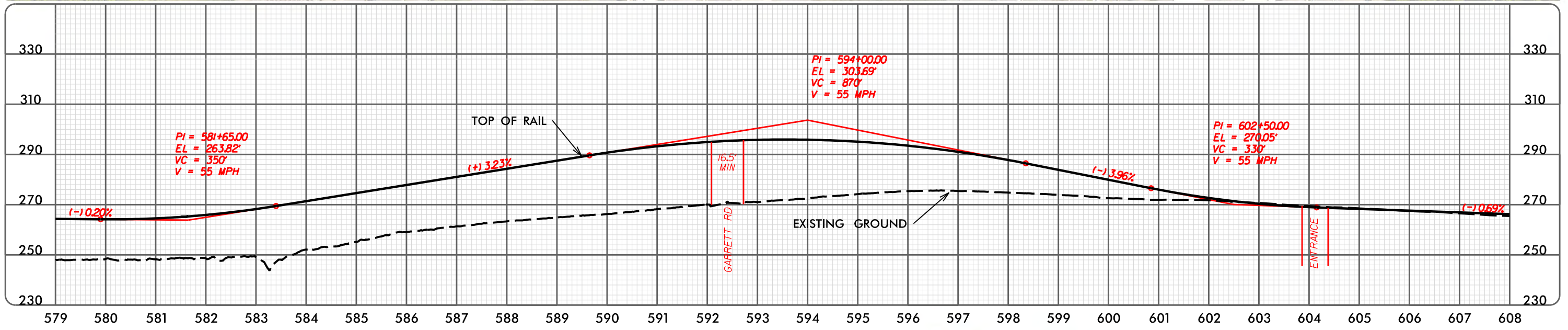
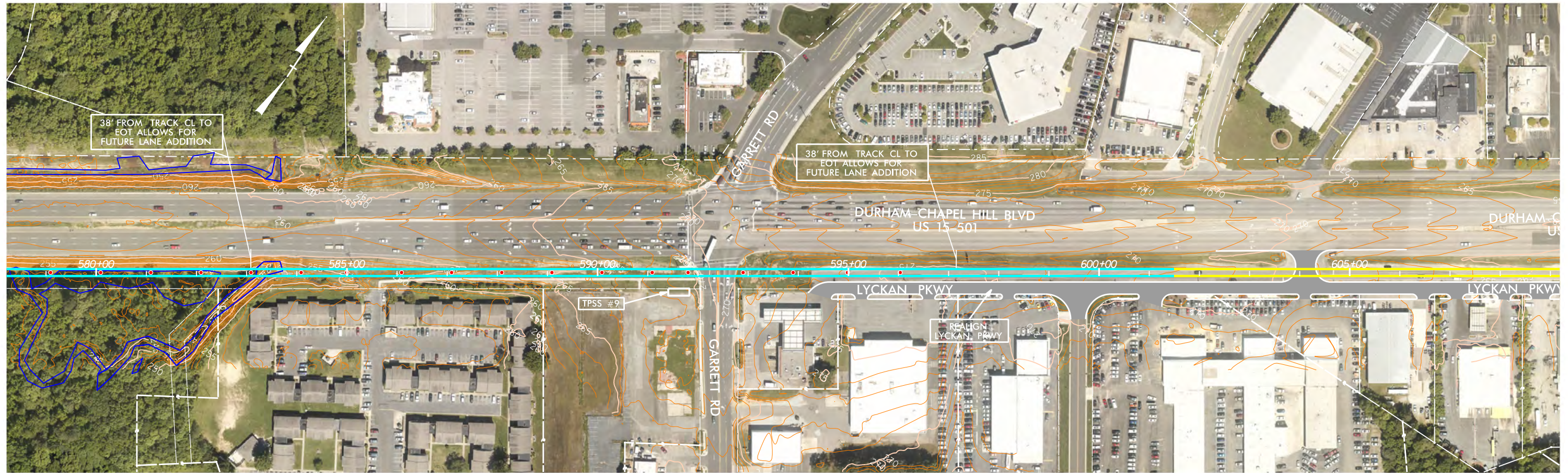
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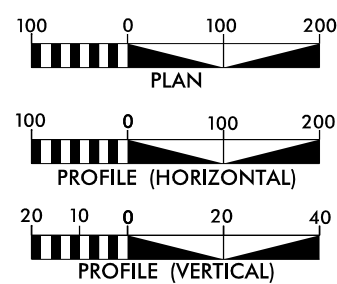
SHEET:  
D1 - 07



# SHANNON PLAZA - NEW HOPE CREEK 1 ALTERNATIVE



### GRAPHIC SCALES



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### PLAN AND PROFILE

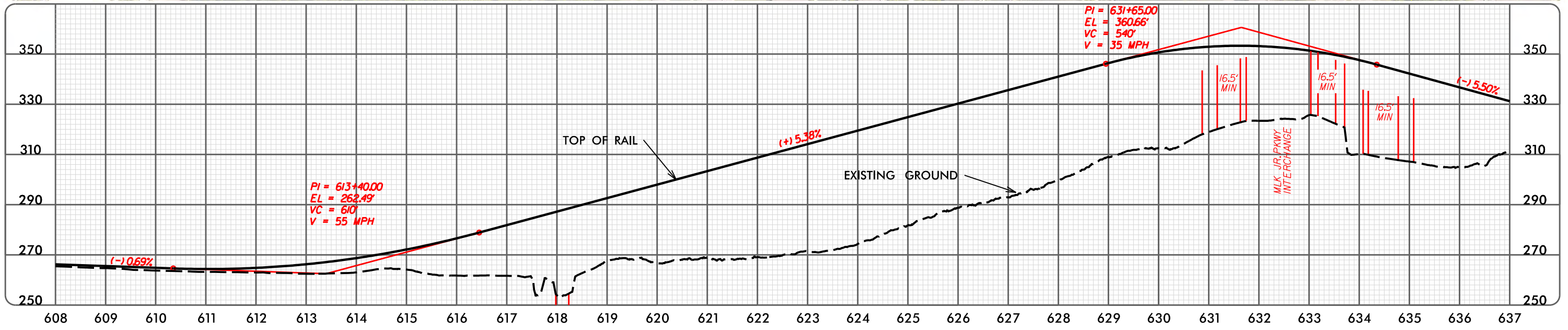
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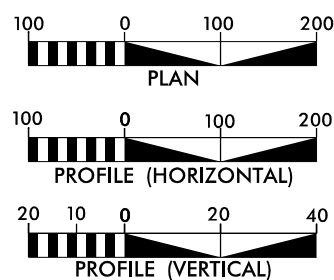
SHEET:  
D1 - 08



# SHANNON PLAZA - NEW HOPE CREEK 1 ALTERNATIVE



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### PLAN AND PROFILE

### SEGMENT D

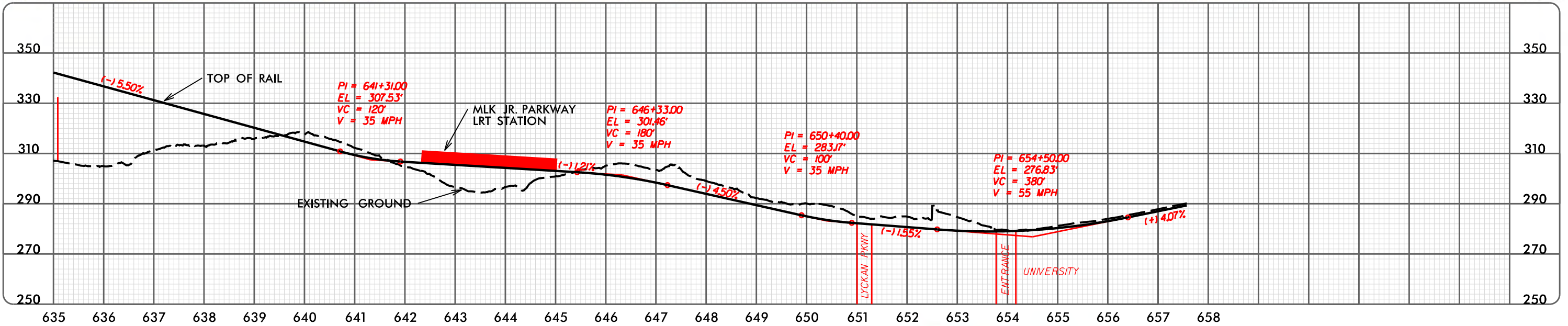
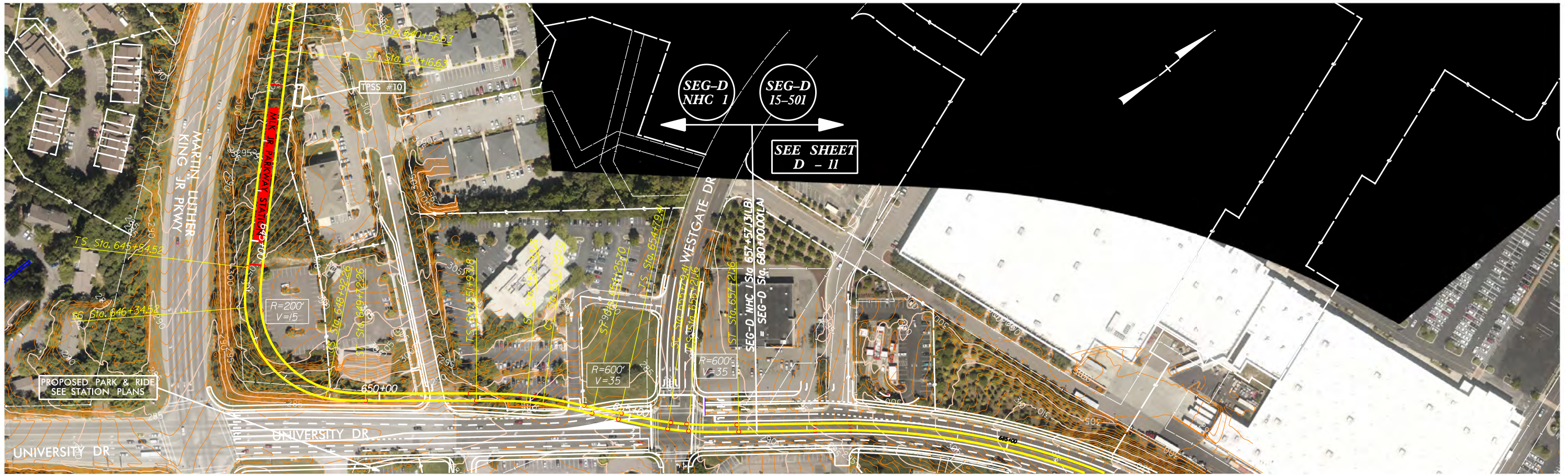
PLAN &  
PROFILE

SHEET:  
D1 - 09

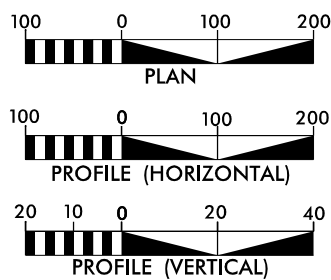
3/30/2015



# MLK JR. PARKWAY STATION - NEW HOPE CREEK 1 ALTERNATIVE



### GRAPHIC SCALES



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### PLAN AND PROFILE

### SEGMENT D

PLAN &  
PROFILE

SHEET:  
D1 - 10

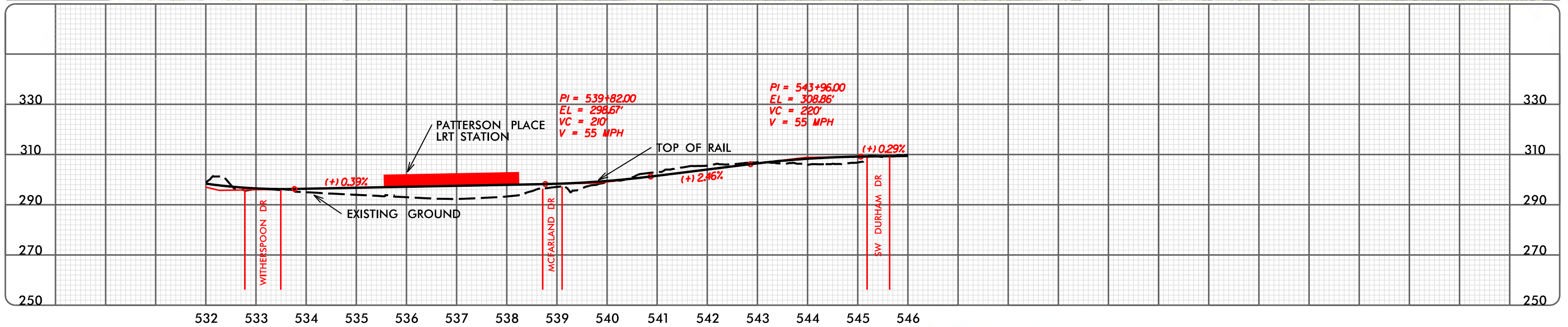
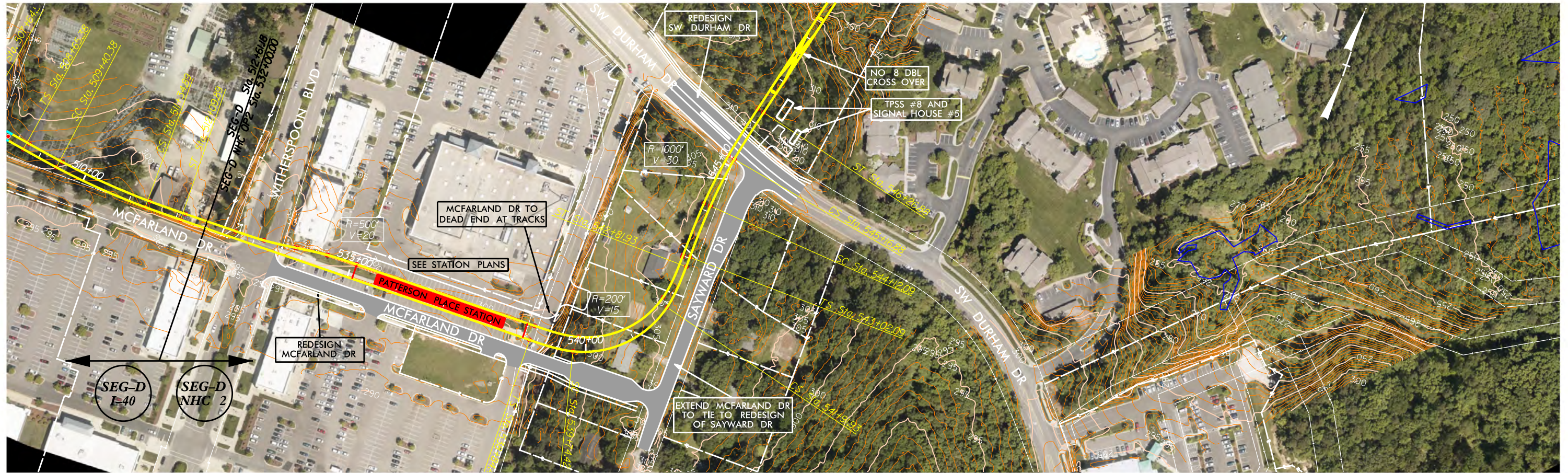
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PLAN AND PROFILE SHEETS

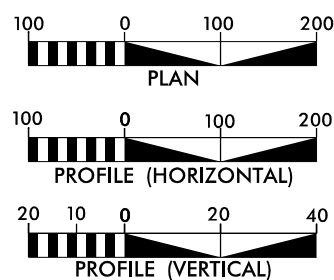




# PATTERSON PLACE STATION - NEW HOPE CREEK 2 ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

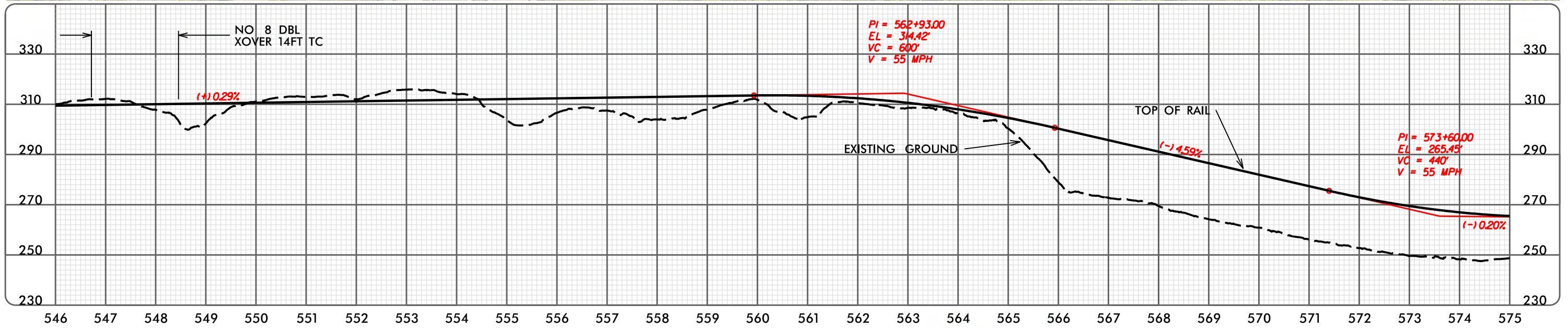
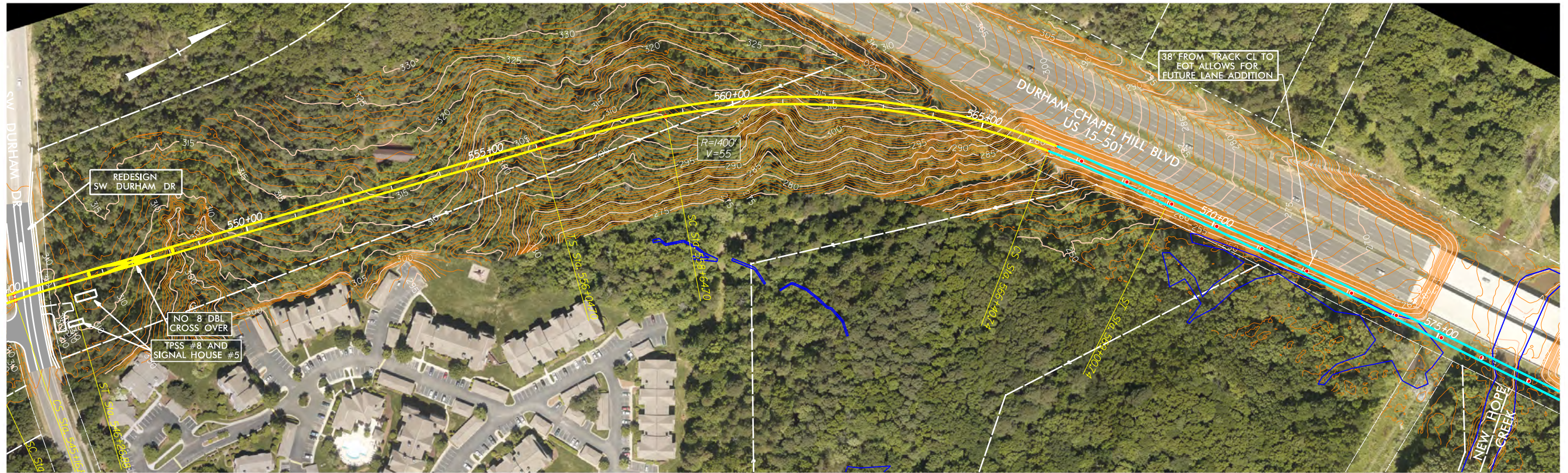
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PLAN &  
PROFILE

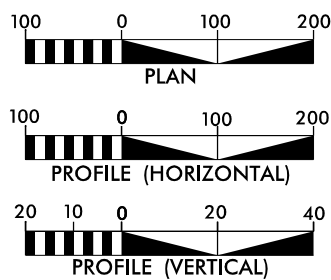
SHEET:  
D2 - 06



# ALONG U.S. ROUTE 15-501 - NEW HOPE CREEK 2 ALTERNATIVE



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



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

### PLAN AND PROFILE

### SEGMENT D

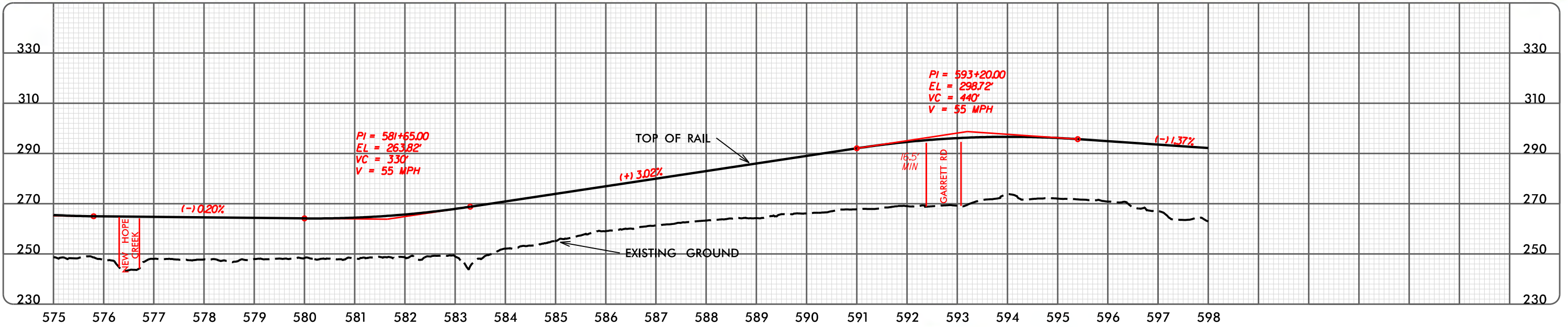
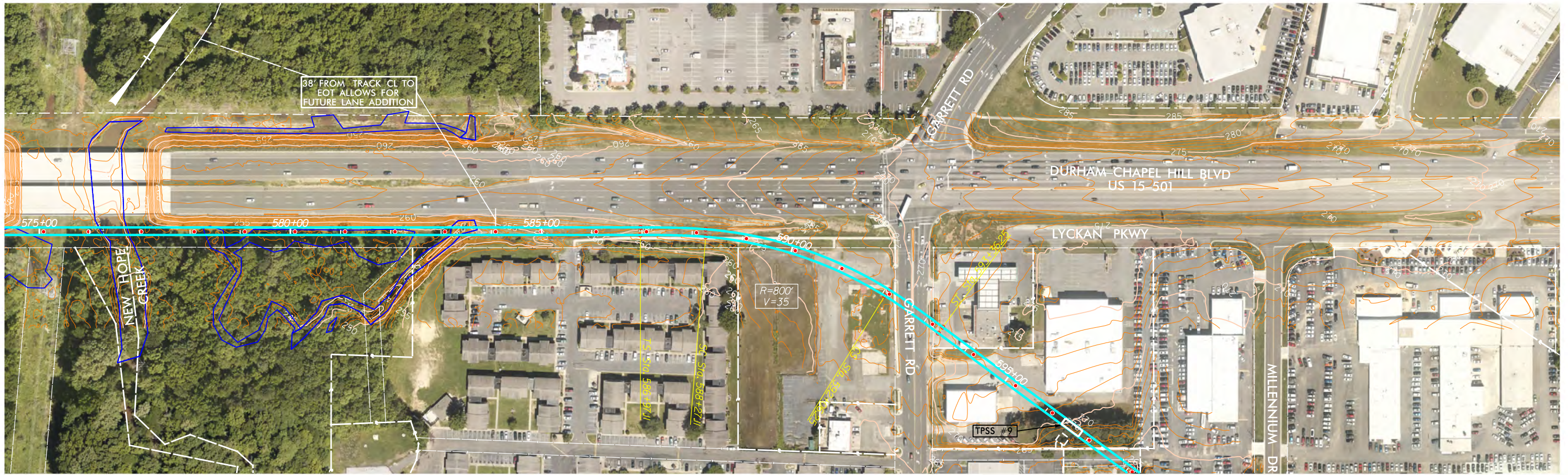
PLAN &  
PROFILE

SHEET:  
D2 - 07

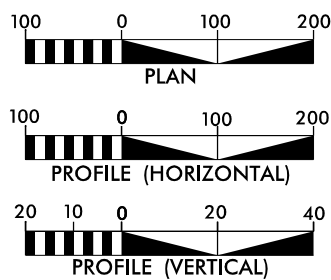
4/7/2015



# SHANNON PLAZA - NEW HOPE CREEK 2 ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

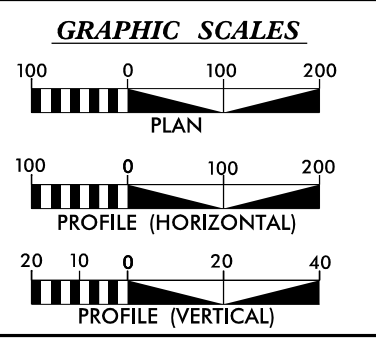
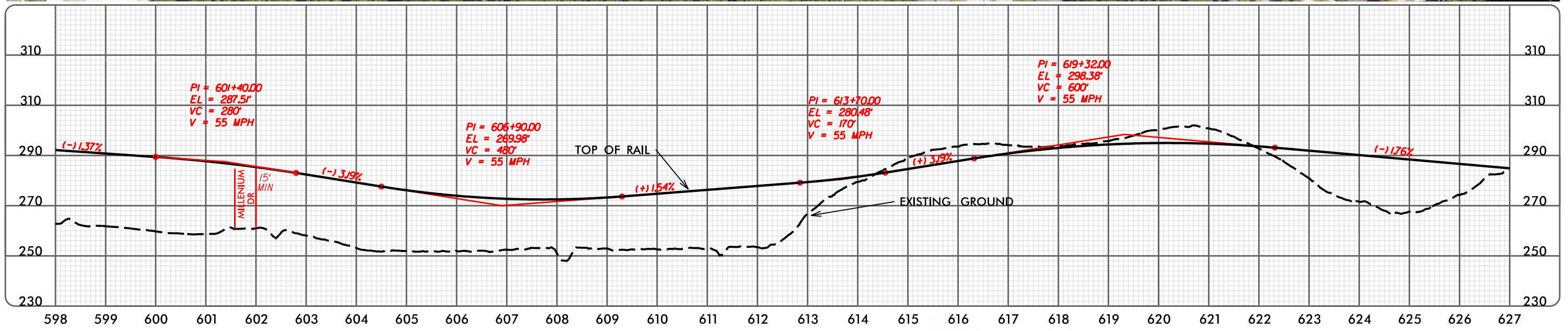
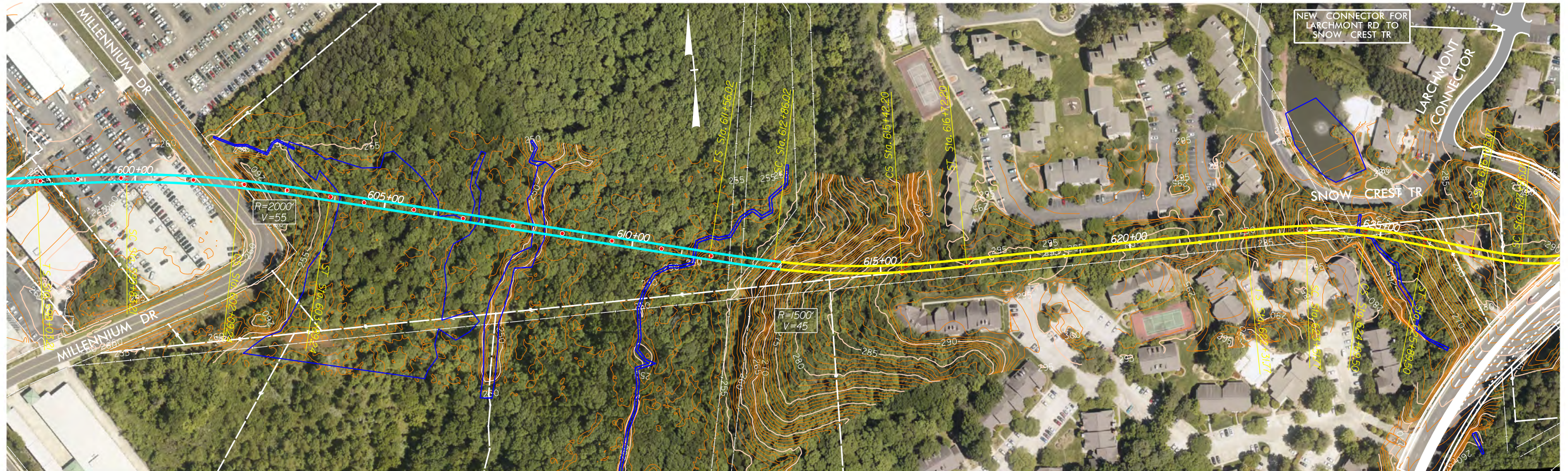
### SEGMENT D

PLAN &  
PROFILE

SHEET:  
D2 - 08



# SHANNON PLAZA - NEW HOPE CREEK 2 ALTERNATIVE



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**LEGEND**

<span style="color: red;">●</span>	BRIDGE PIERS
<span style="color: yellow;">—</span>	AT-GRADE TRK
<span style="color: cyan;">—</span>	ELEVATED TRK
<span style="color: blue;">—</span>	WETLANDS
<span style="color: red;">—</span>	STATION

**OurTransit FUTURE.**

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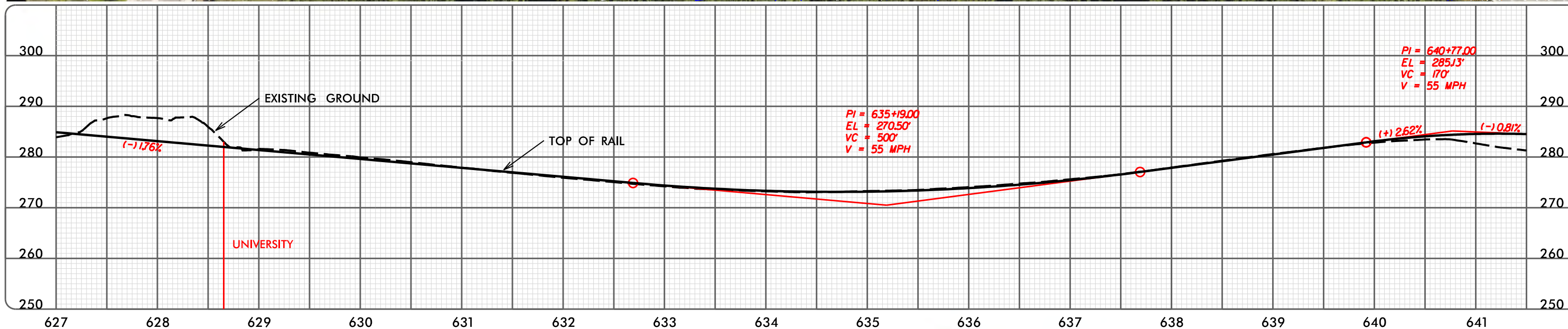
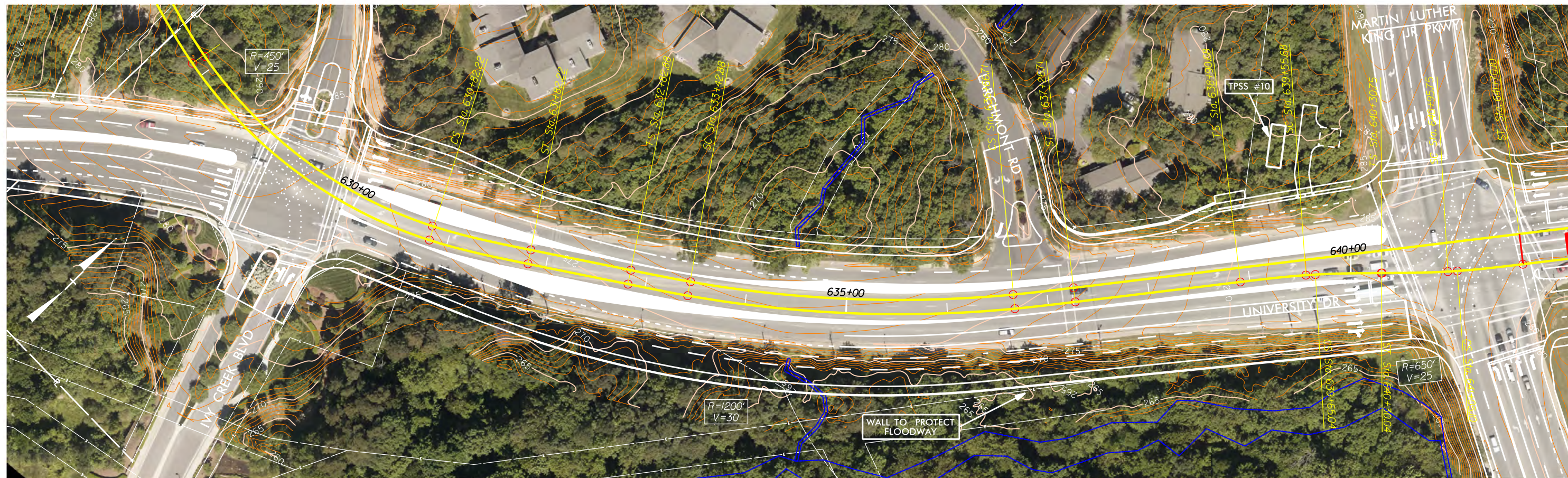
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<b>PLAN AND PROFILE</b>	
<b>SEGMENT D</b>	
<b>PLAN &amp; PROFILE</b>	<b>SHEET: D2 - 09</b>

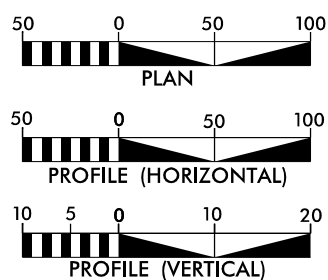
3/30/2015



# UNIVERSITY DRIVE - NEW HOPE CREEK 2 ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

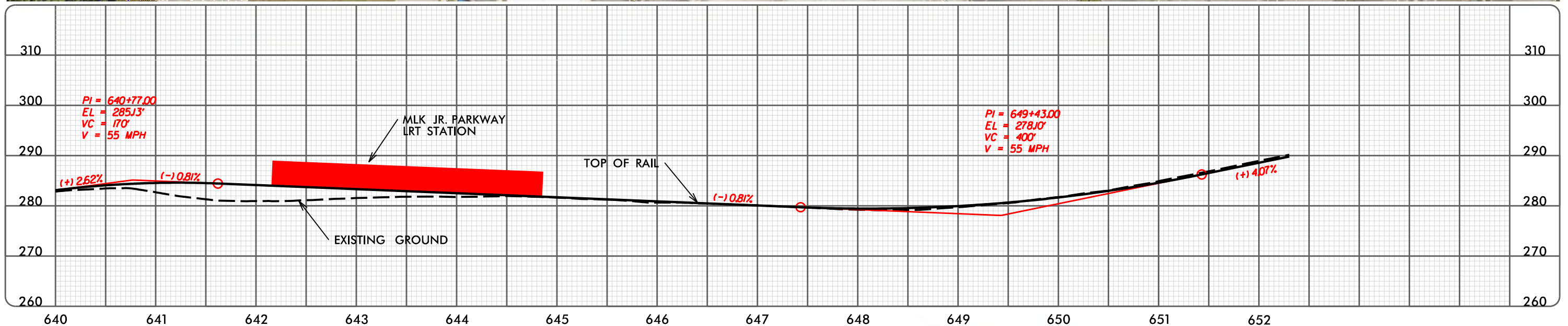
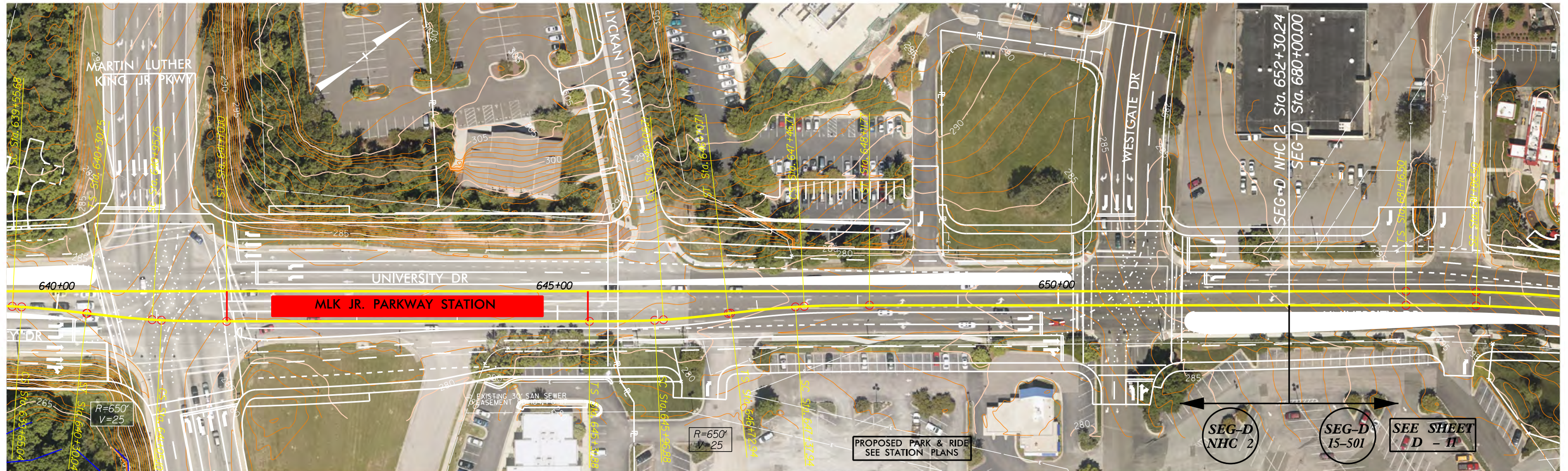
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PLAN &  
PROFILE

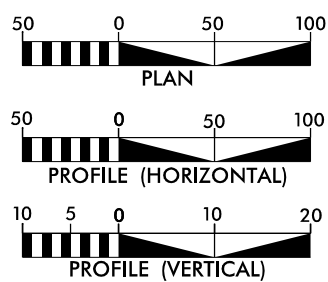
SHEET:  
D2 - 10



# MLK JR. PARKWAY STATION - NEW HOPE CREEK 2 ALTERNATIVE



### GRAPHIC SCALES



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### PLAN AND PROFILE

### SEGMENT D

PLAN &  
PROFILE

SHEET:  
D2 - 11



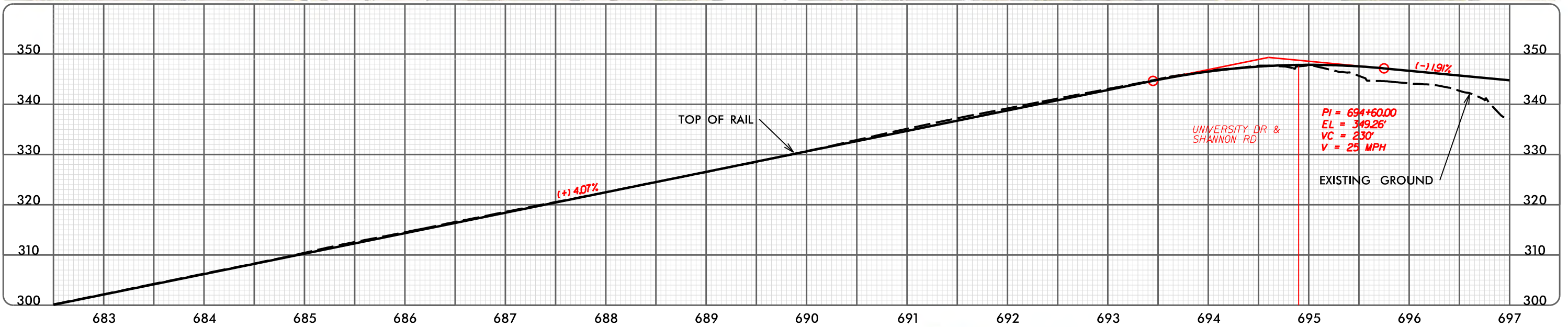
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PLAN AND PROFILE SHEETS

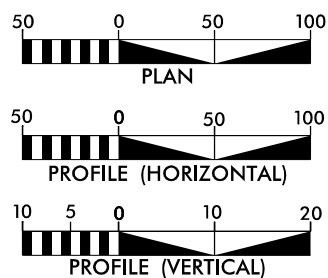




# UNIVERSITY DRIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

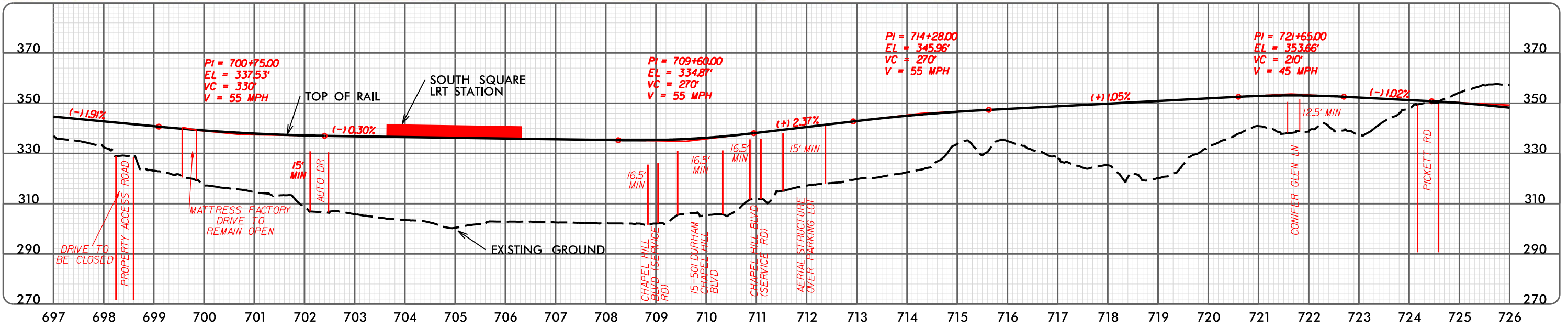
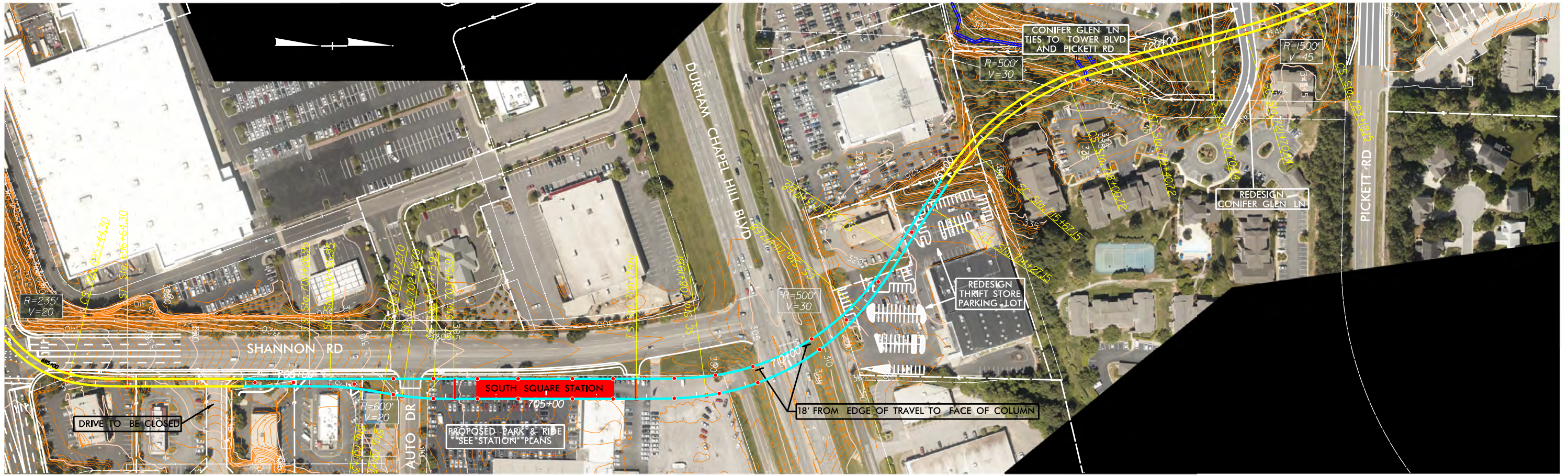
### SEGMENT D

PLAN &  
PROFILE

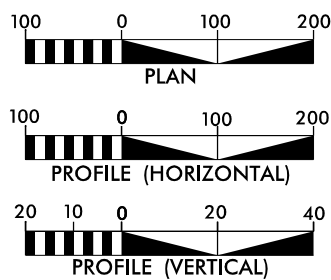
SHEET:  
D - 11



# SOUTH SQUARE STATION



### GRAPHIC SCALES



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### PLAN AND PROFILE

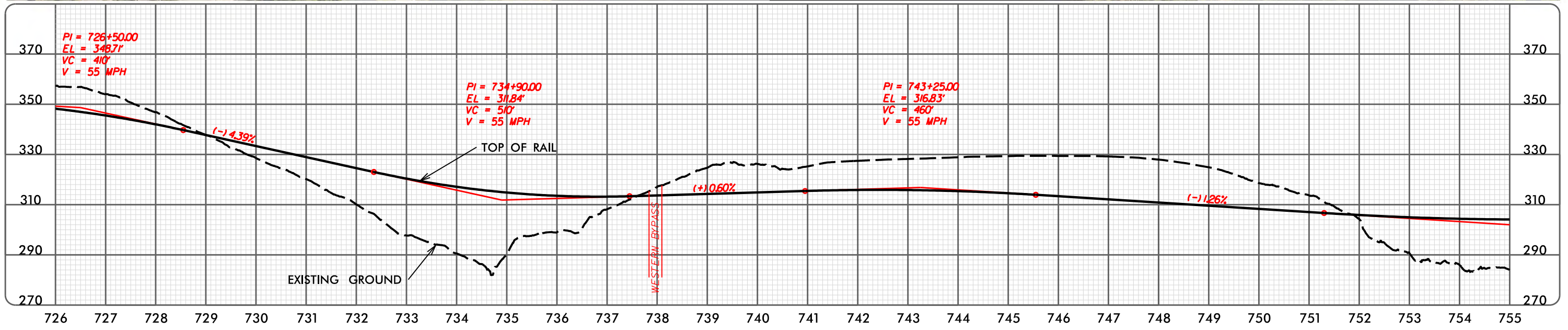
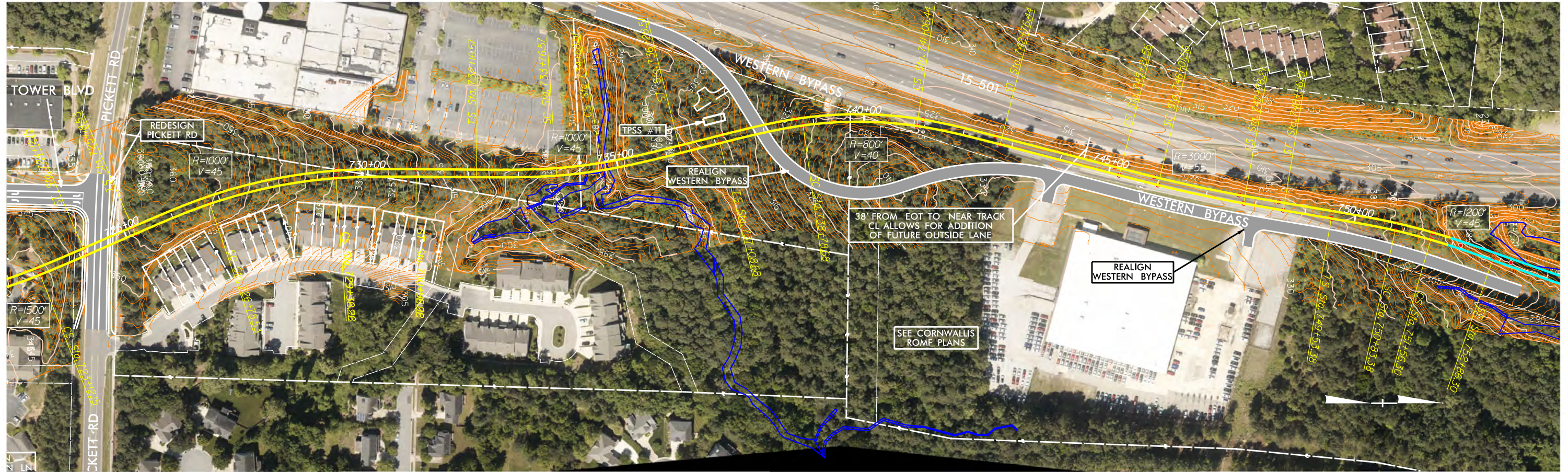
#### SEGMENT D

**PLAN &  
PROFILE**

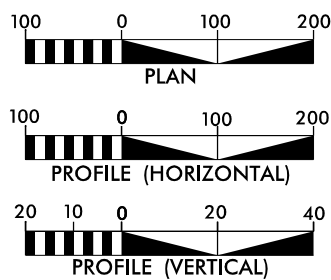
**SHEET:**  
**D - 12**



# ALONG U.S. ROUTE 15-501



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### PLAN AND PROFILE

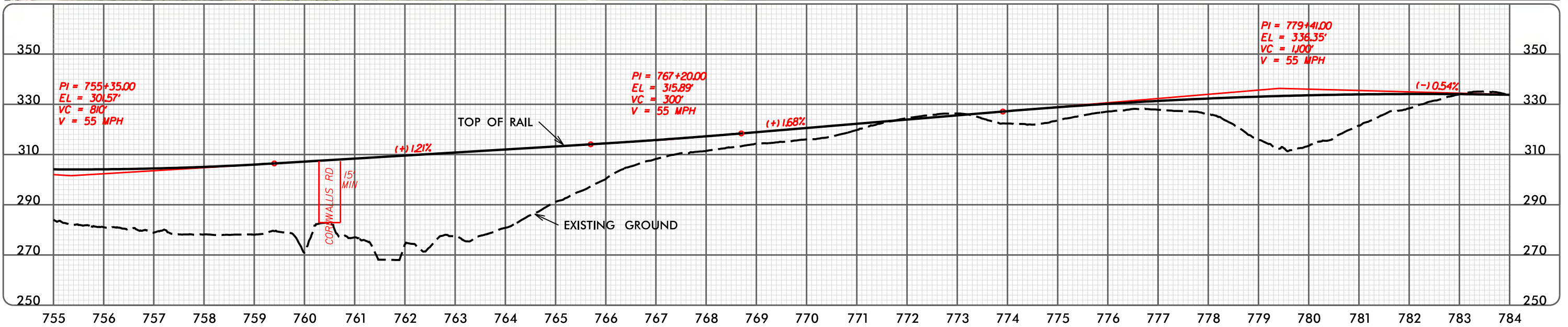
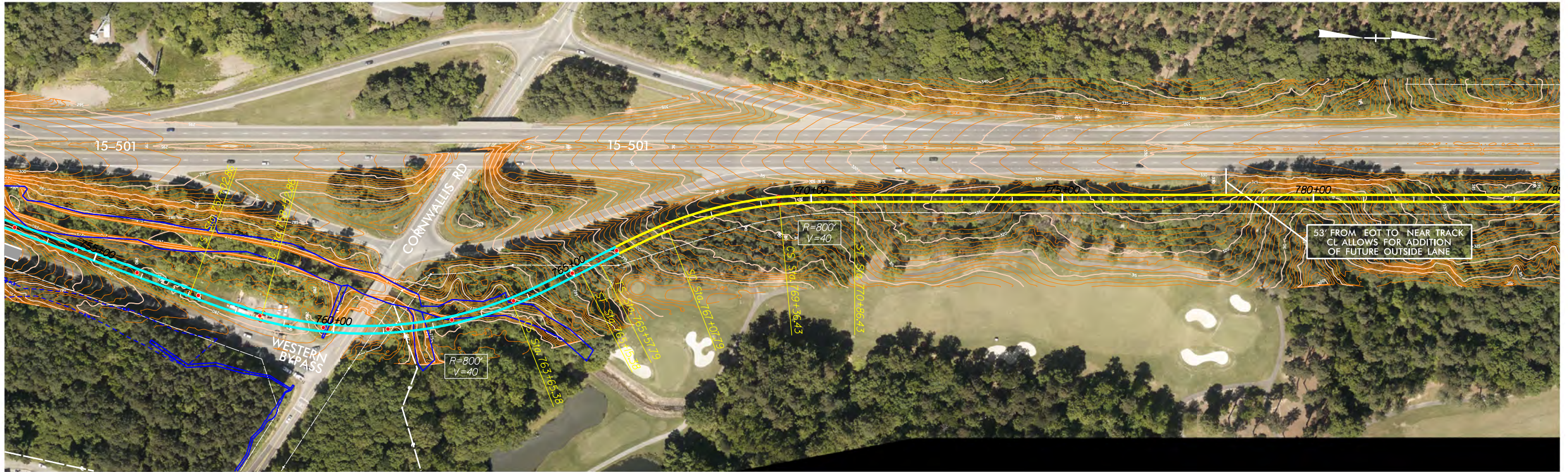
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PLAN &  
PROFILE

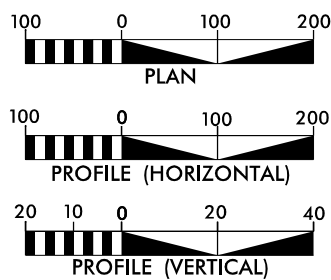
SHEET:  
D - 13



# ALONG U.S. ROUTE 15-501



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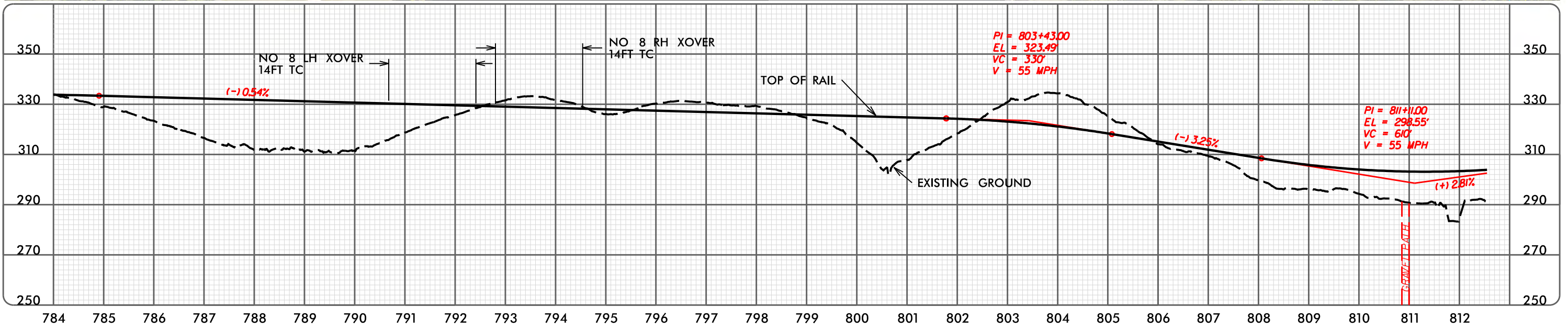
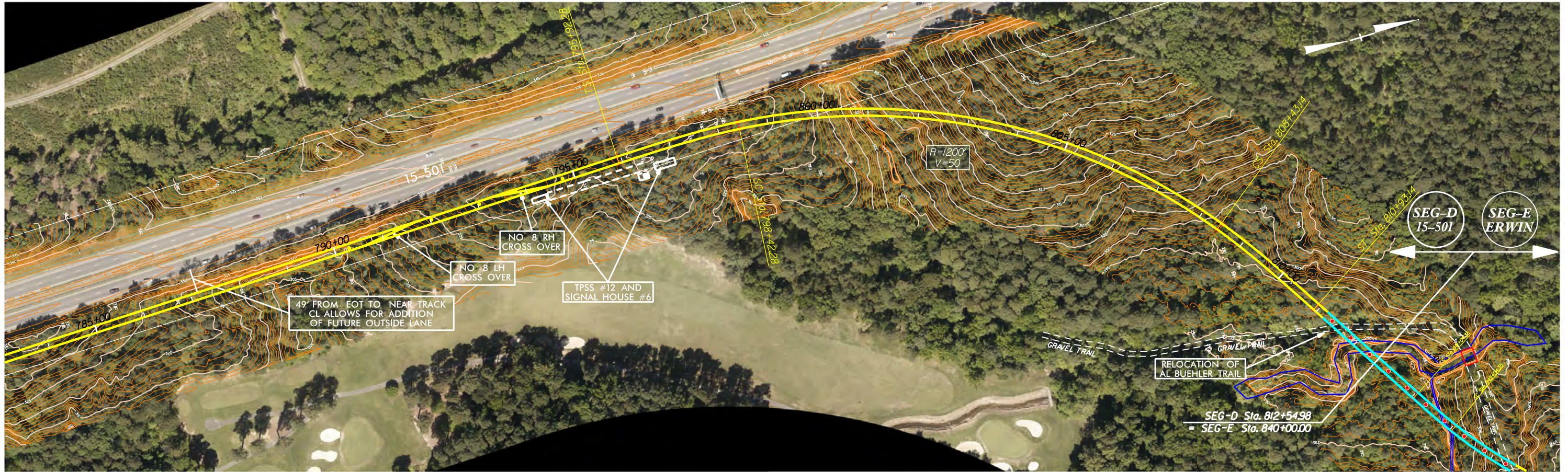
### SEGMENT D

PLAN &  
PROFILE

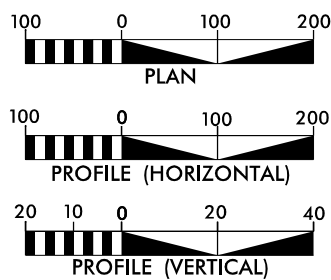
SHEET:  
D - 14



# ALONG U.S. ROUTE 15-501



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### PLAN AND PROFILE

### SEGMENT D

PLAN &  
PROFILE

SHEET:  
D - 15



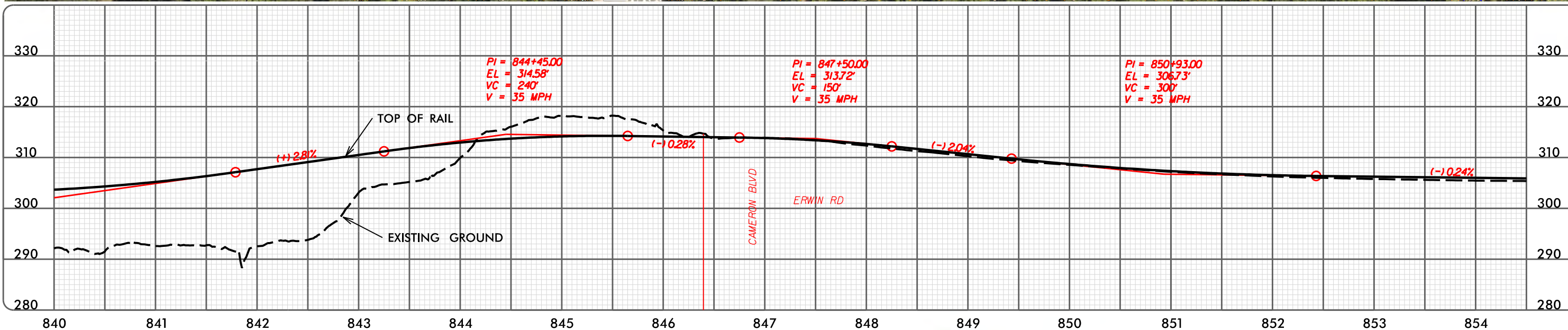
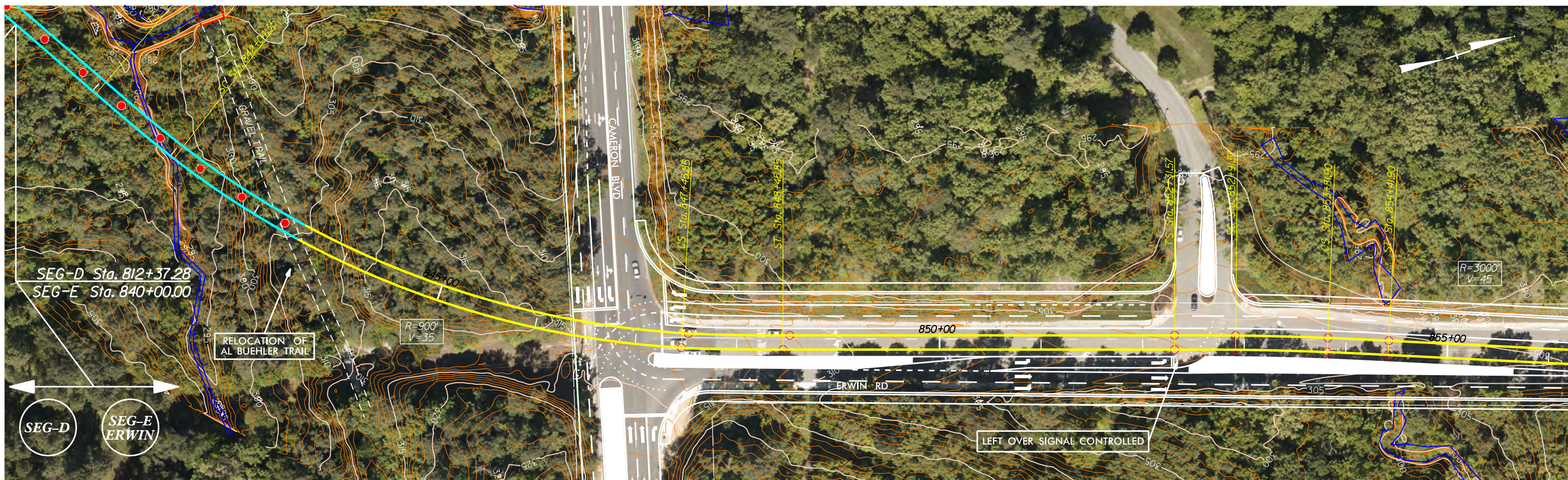
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PLAN AND PROFILE SHEETS

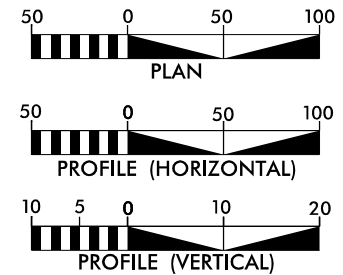




# ERWIN ROAD



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### PLAN AND PROFILE

SEGMENT E

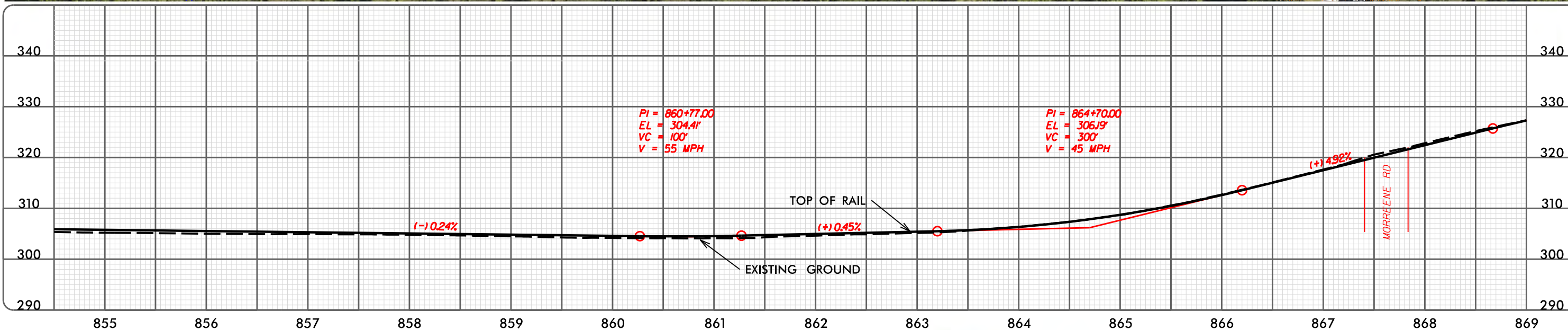
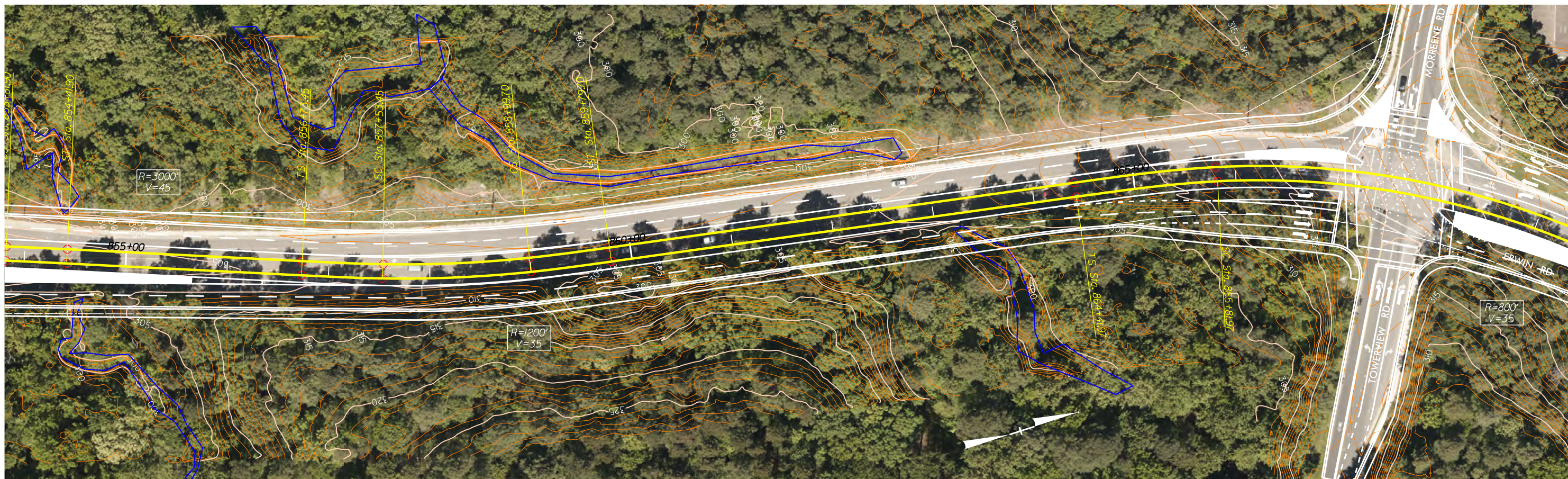
PLAN &  
PROFILE

SHEET:  
E - 01

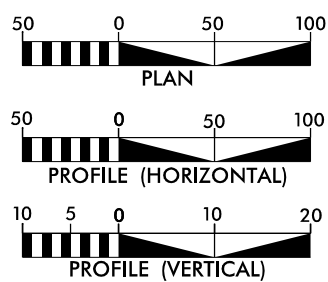
7/22/2015



# ERWIN ROAD



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### PLAN AND PROFILE

### SEGMENT E

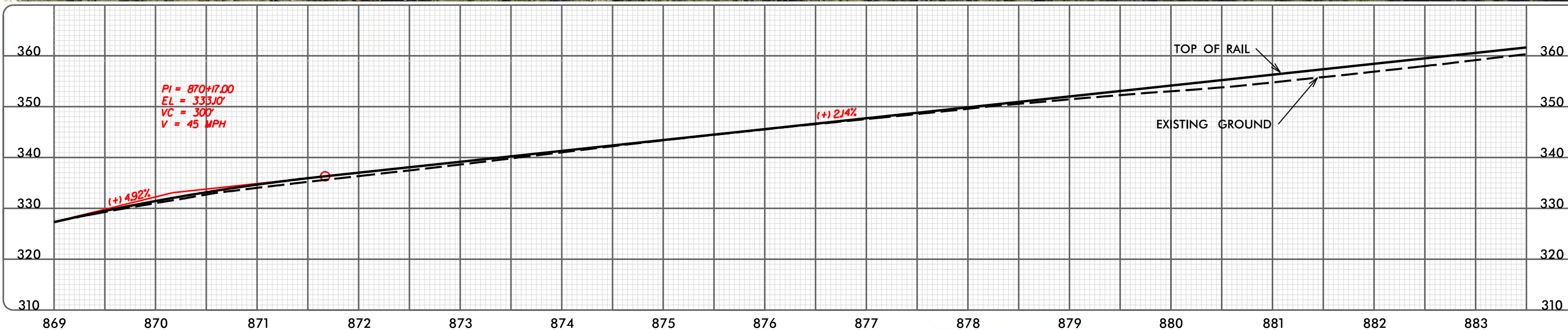
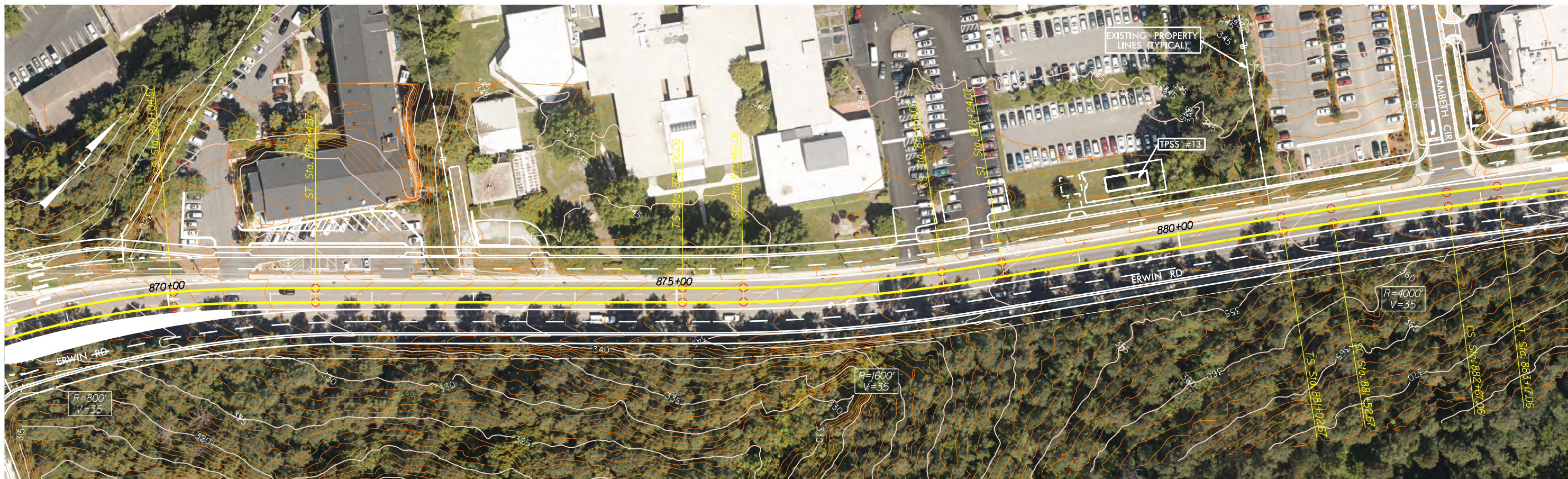
PLAN &  
PROFILE

SHEET:  
E - 02

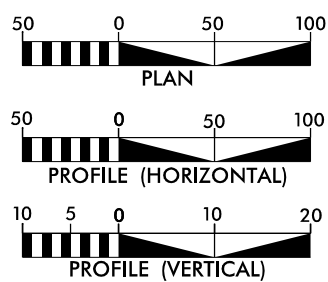
3/12/2015



# ERWIN ROAD



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### PLAN AND PROFILE

SEGMENT E

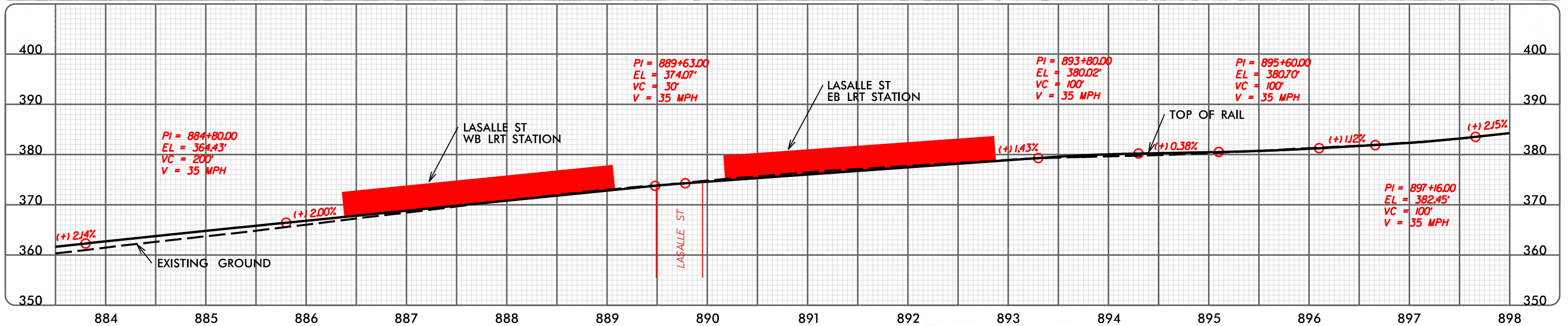
PLAN &  
PROFILE

SHEET:  
E - 03

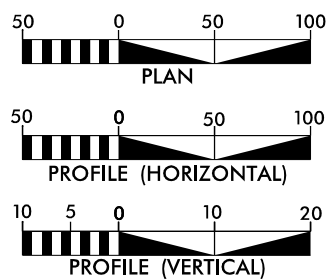
3/31/2015



# LASALLE STREET STATION



### GRAPHIC SCALES



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### PLAN AND PROFILE

SEGMENT E

PLAN &  
PROFILE

SHEET:  
E - 04



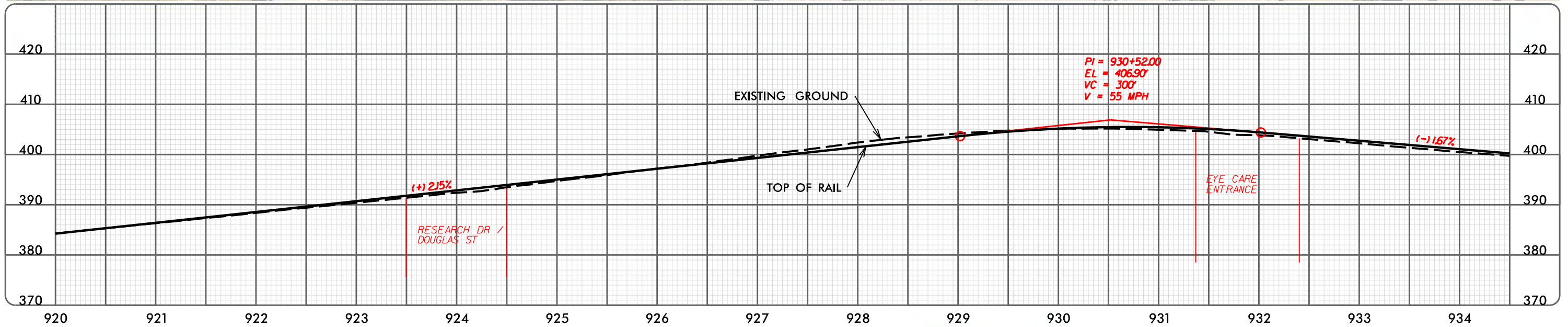
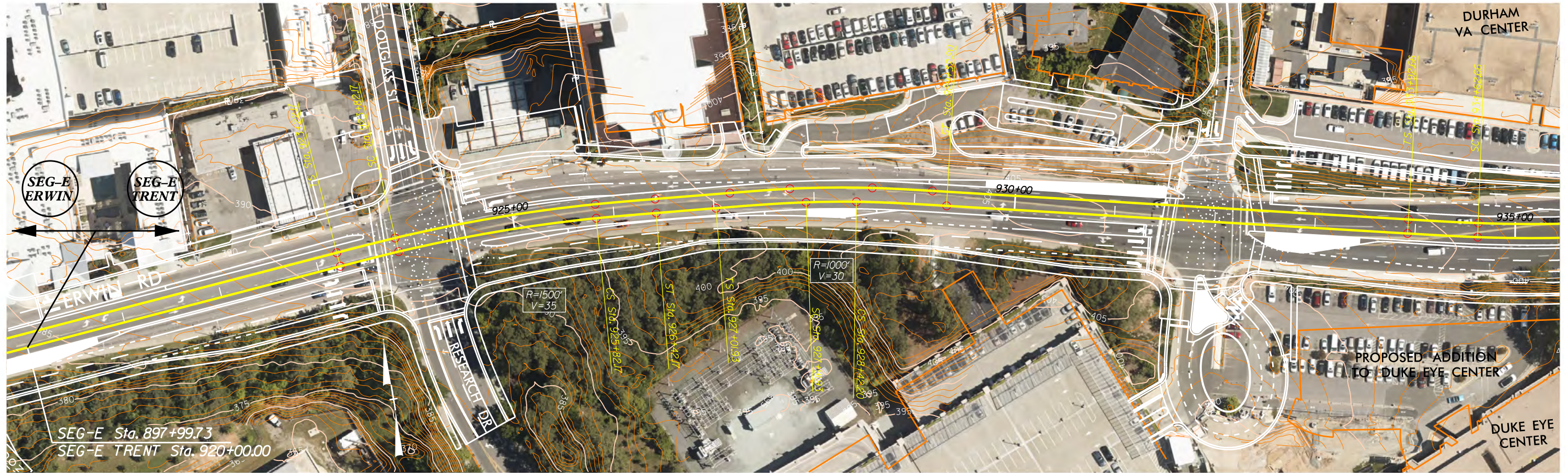
# SEGMENT E – TRENT/FLOWERS DRIVE ALTERNATIVE

## PLAN AND PROFILE SHEETS

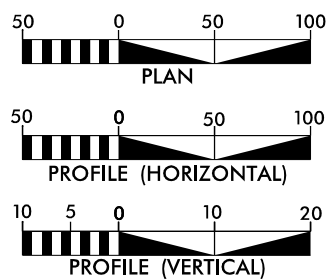




# ERWIN ROAD - TRENT / FLOWERS DRIVE ALTERNATIVE



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### PLAN AND PROFILE

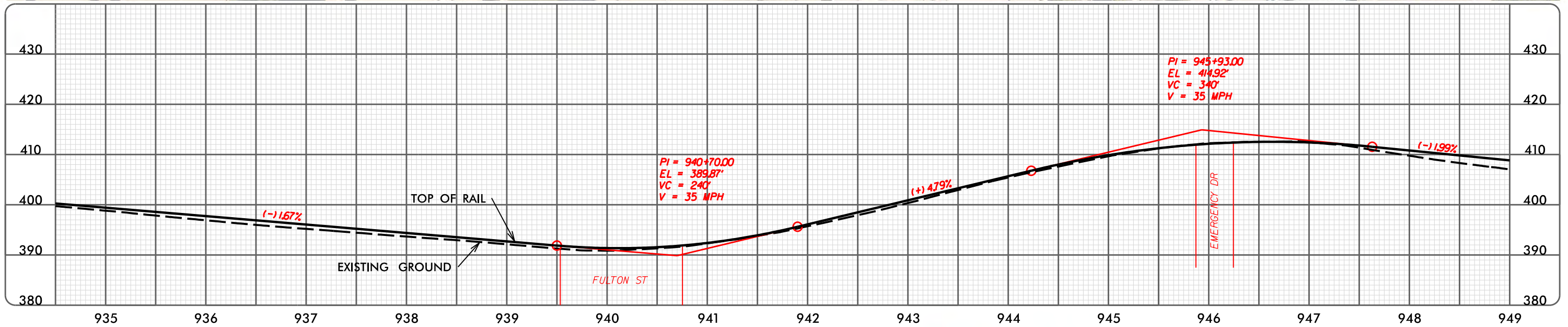
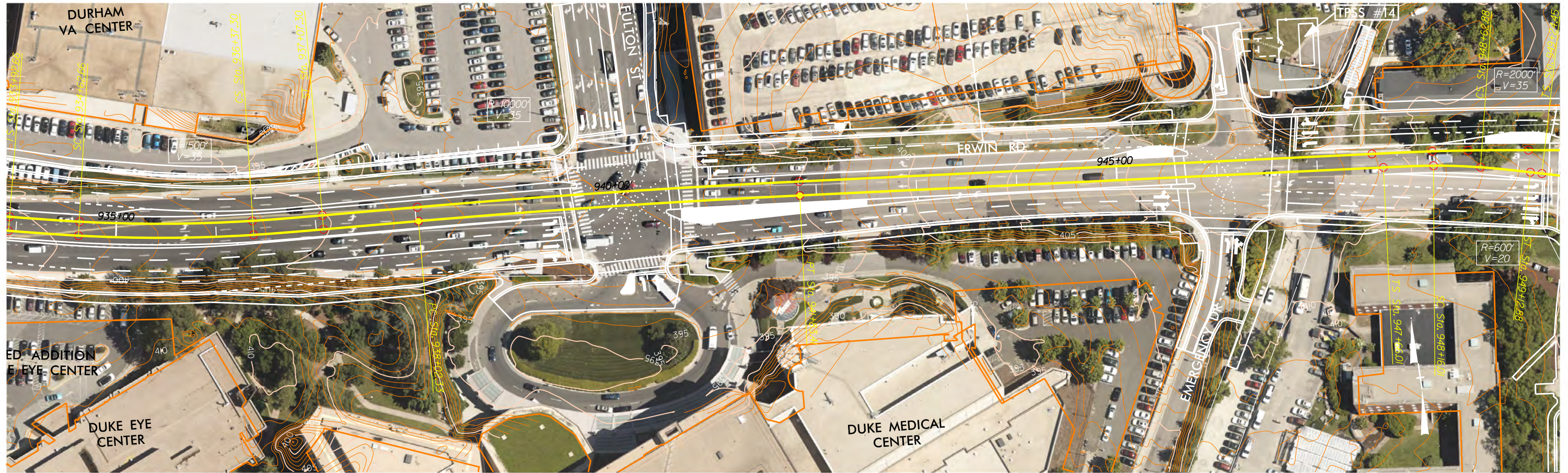
SEGMENT E

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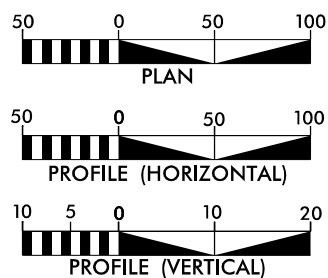
SHEET:  
E - 05



# ERWIN ROAD - TRENT / FLOWERS DRIVE ALTERNATIVE



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### PLAN AND PROFILE

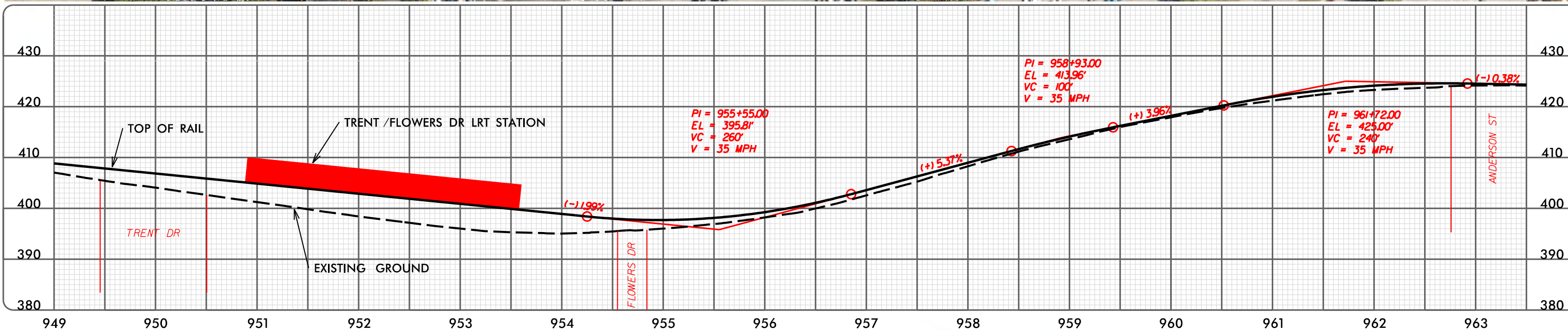
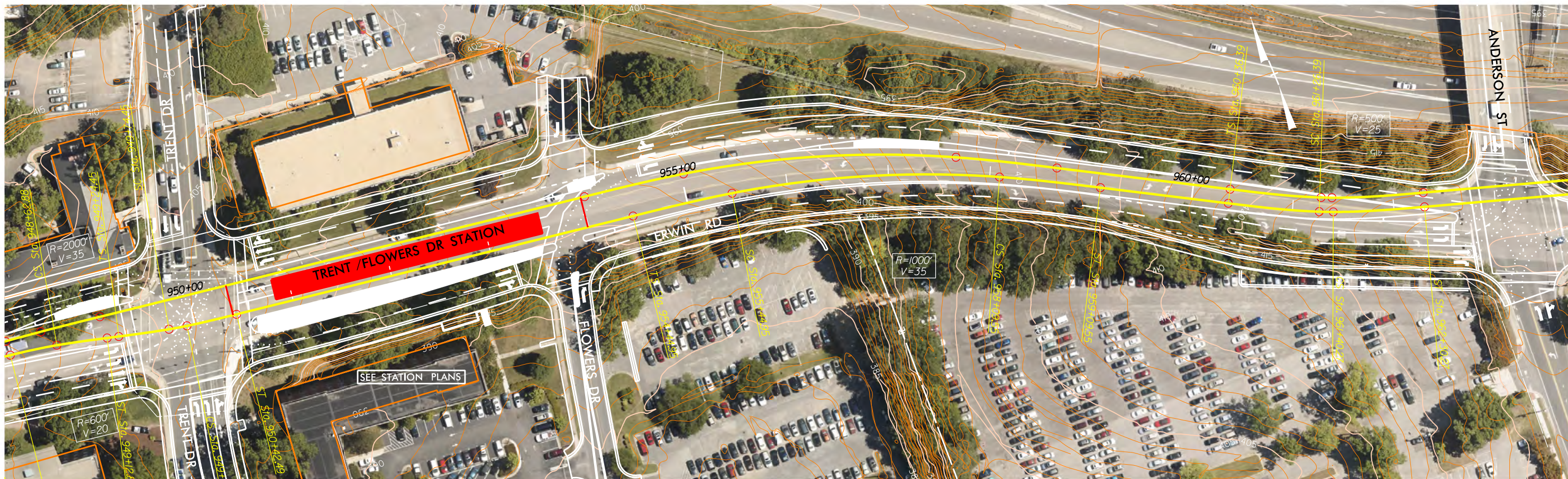
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PLAN &  
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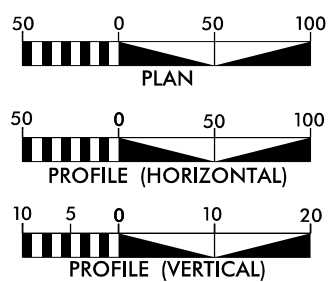
SHEET:  
E - 06



# TRENT /FLOWERS STATION - TRENT /FLOWERS DRIVE ALTERNATIVE



### 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 AND PROFILE

SEGMENT E

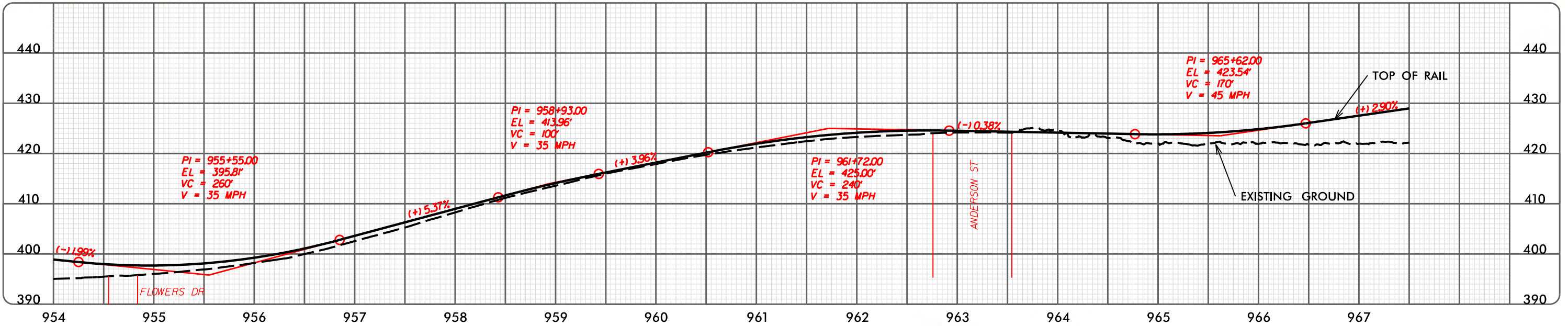
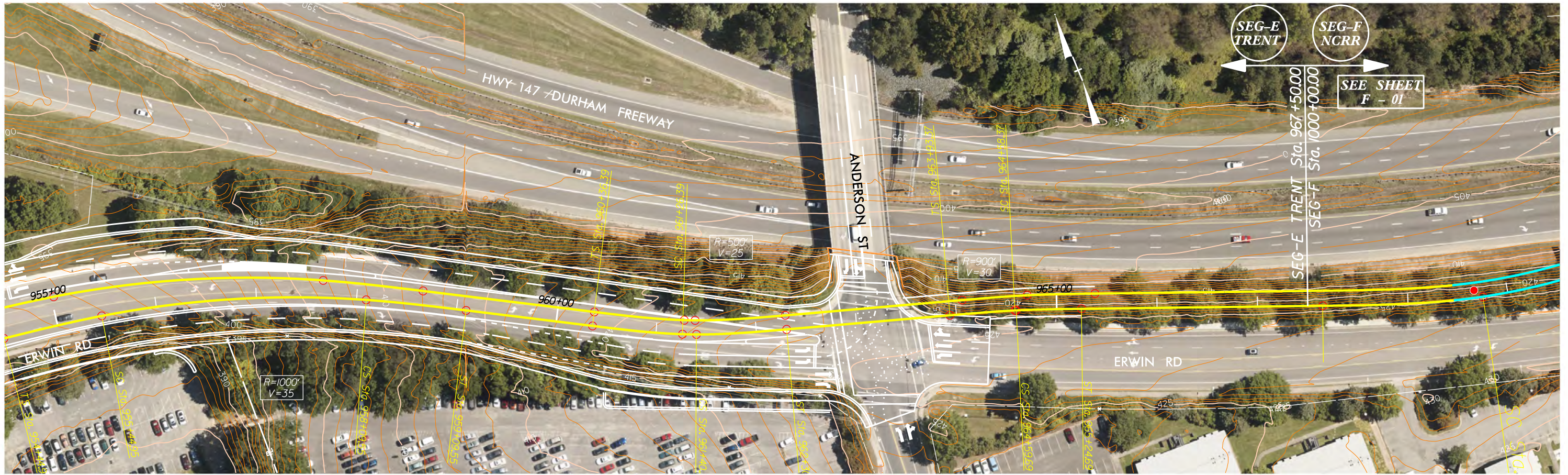
PLAN &  
PROFILE

SHEET:  
E - 07

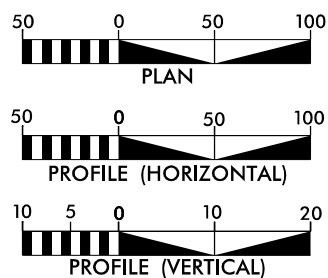
4/8/2015



# ERWIN ROAD - TRENT / FLOWERS DRIVE ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

SEGMENT E

PLAN &  
PROFILE

SHEET:  
E - 08

4/8/2015



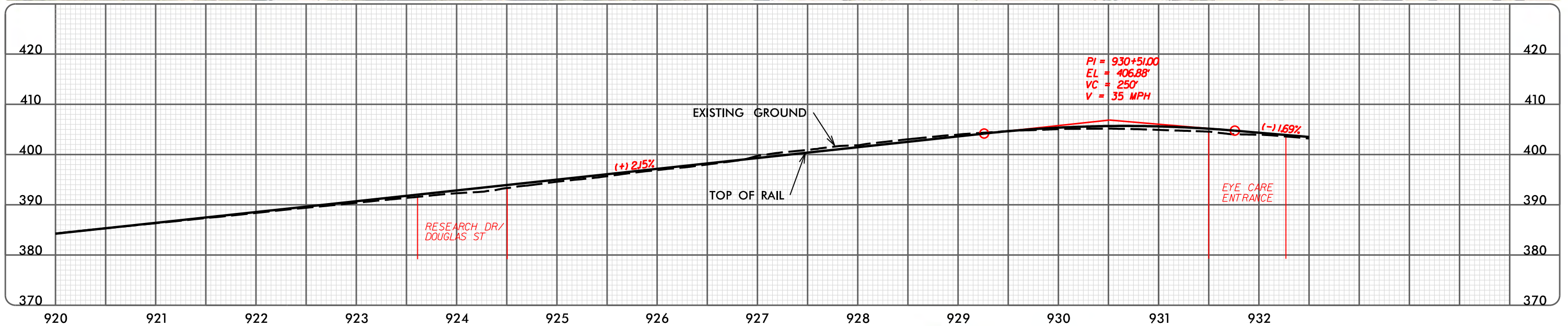
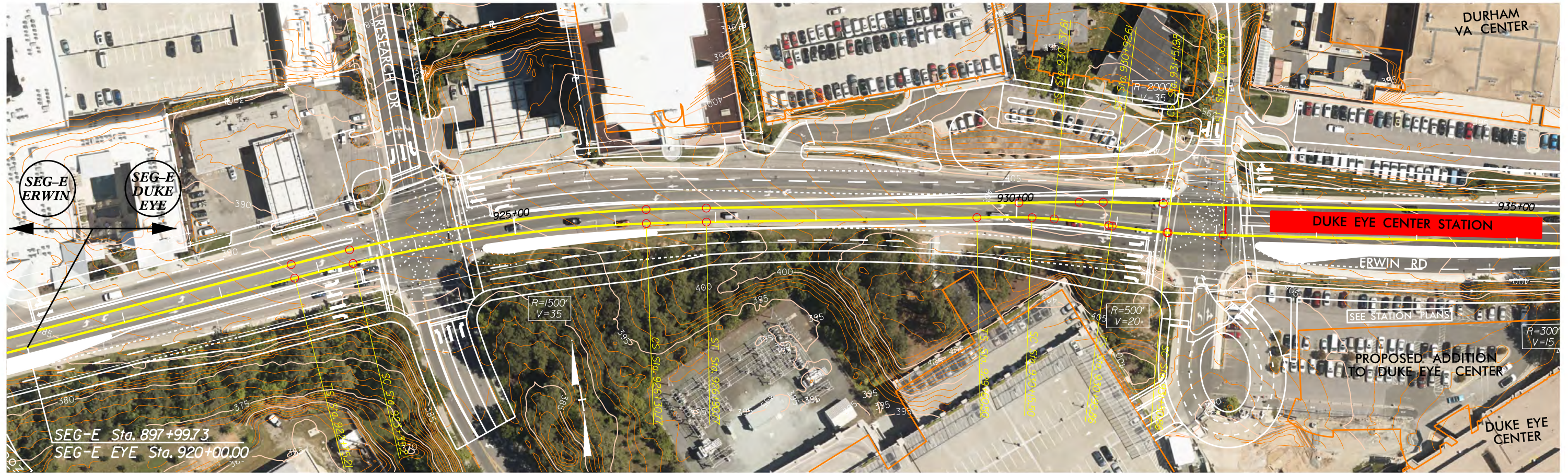
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PLAN AND PROFILE SHEETS

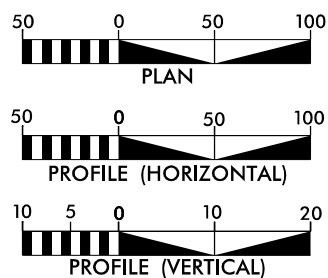




# DUKE EYE CENTER STATION - DUKE EYE CENTER ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

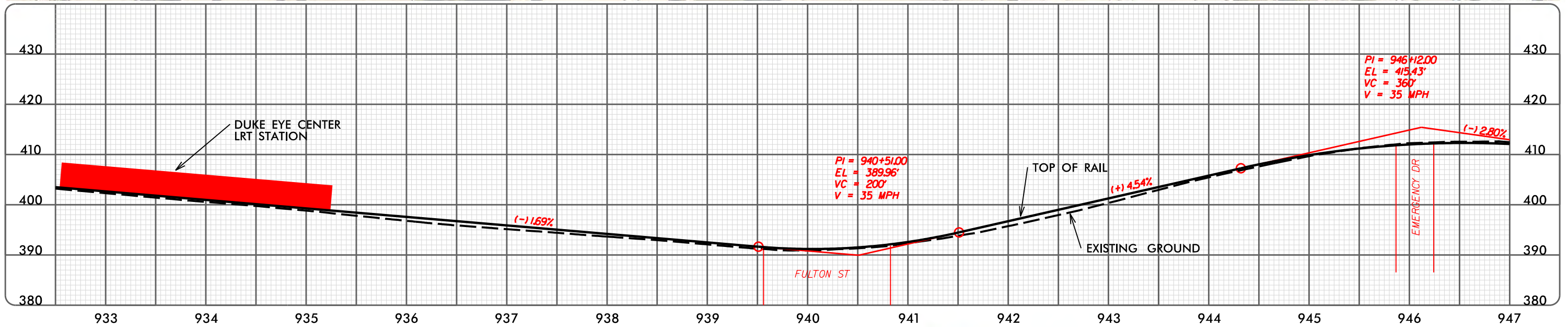
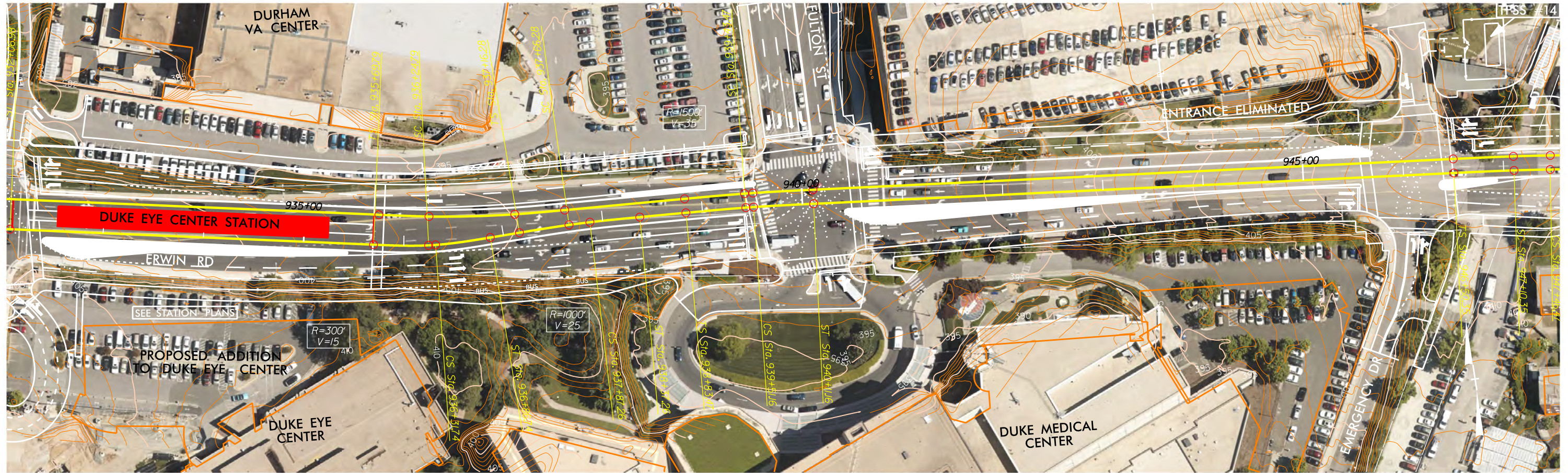
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PLAN &  
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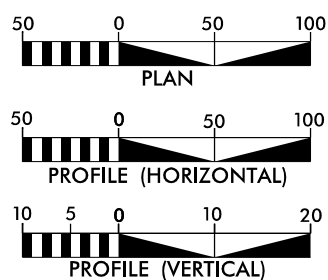
SHEET:  
E1 - 05



# DUKE EYE CENTER STATION - DUKE EYE CENTER ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

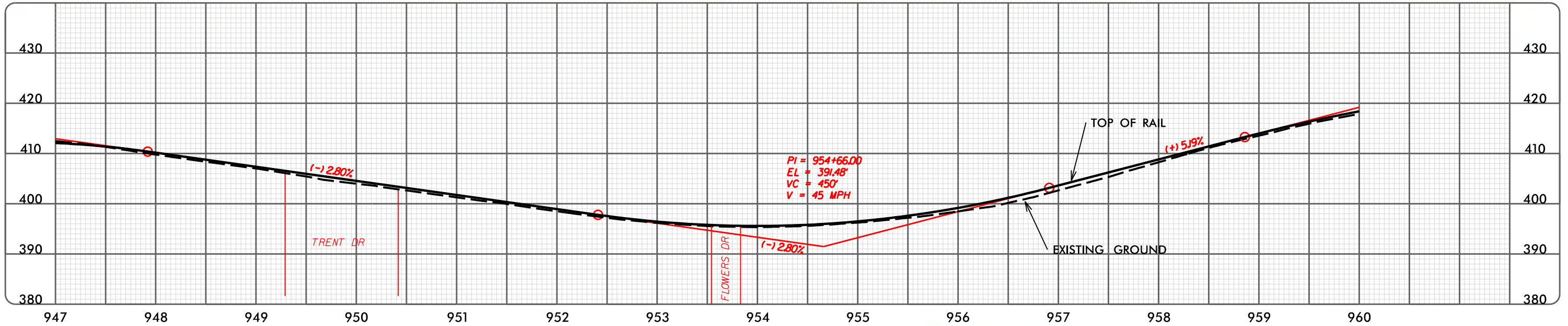
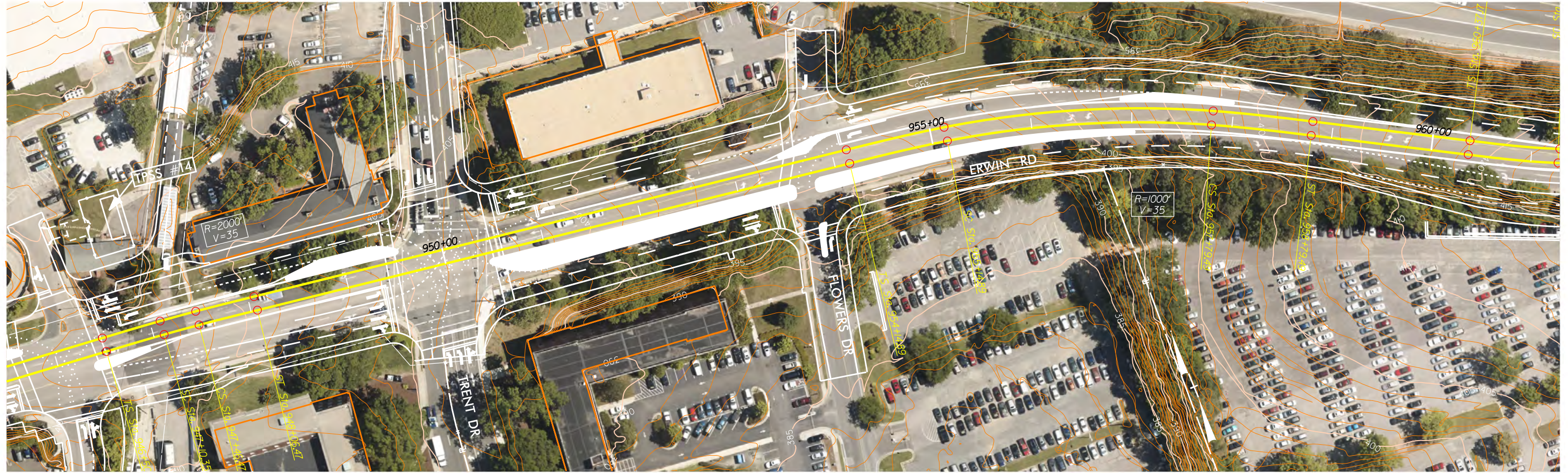
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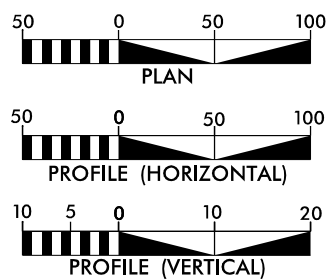
SHEET:  
E1 - 06



# ERWIN ROAD - DUKE EYE CENTER ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

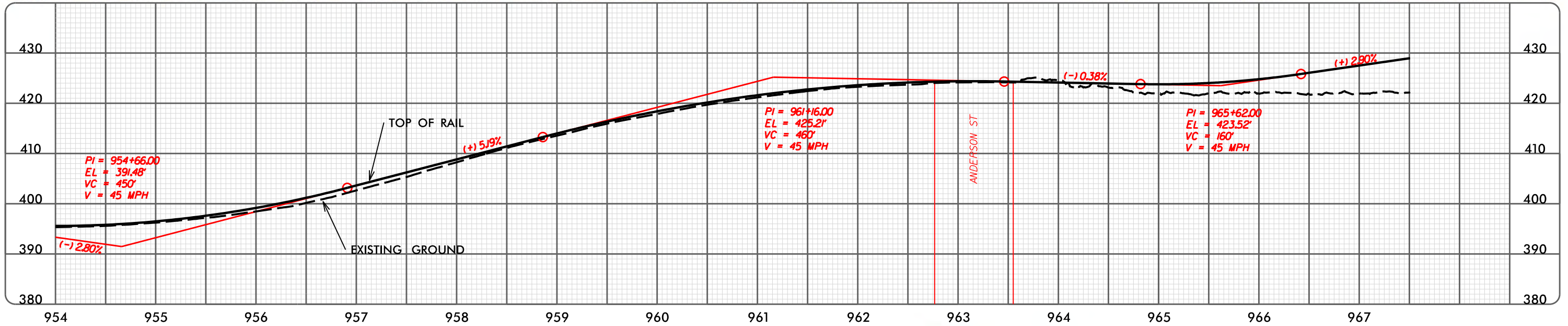
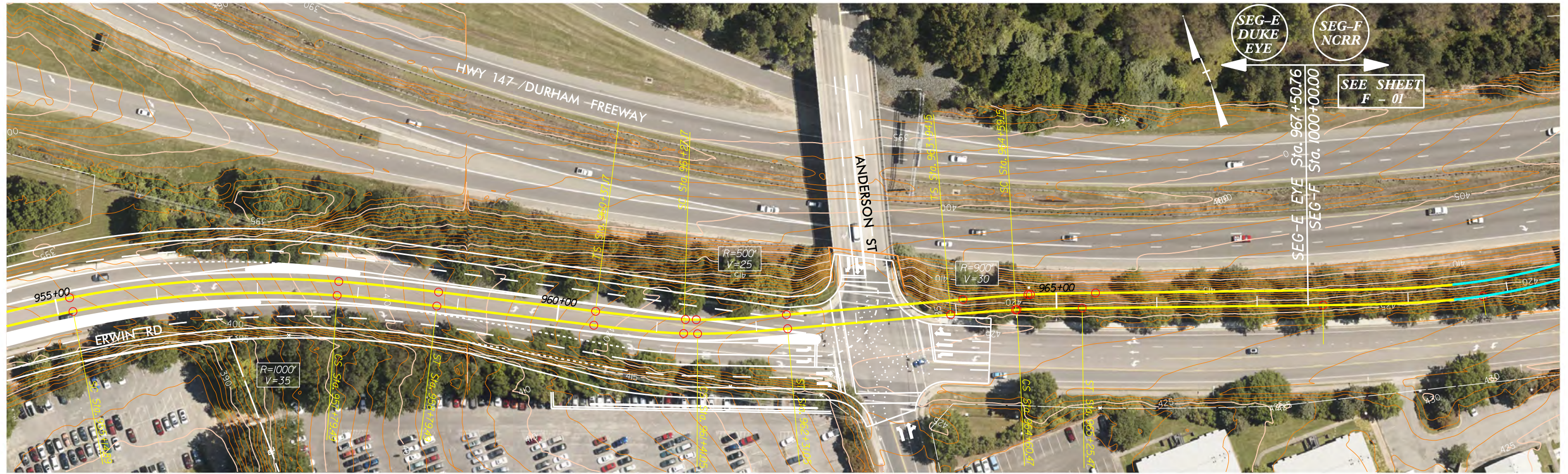
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PLAN &  
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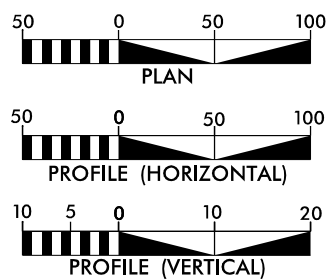
SHEET:  
E1 - 07



# ERWIN ROAD - DUKE EYE CENTER ALTERNATIVE



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

#### SEGMENT E

PLAN &  
PROFILE

SHEET:  
E1 - 08



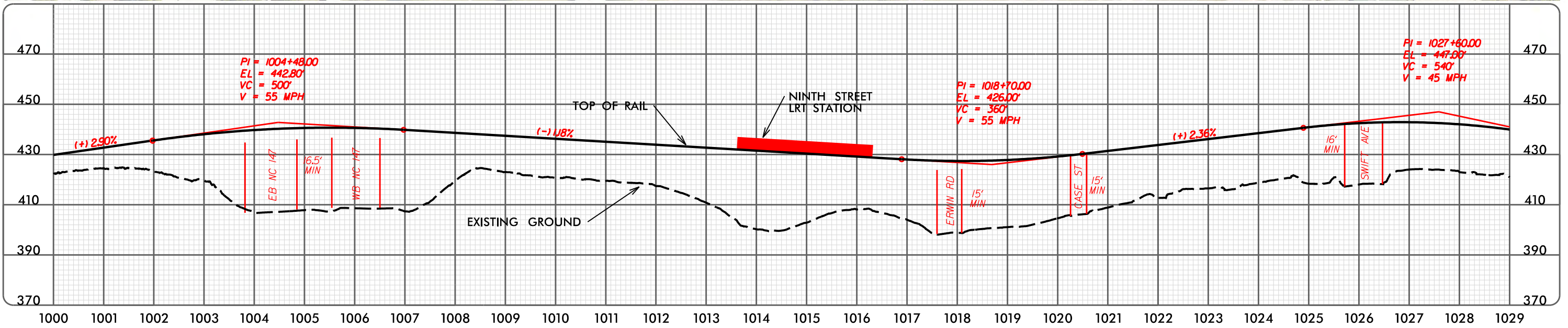
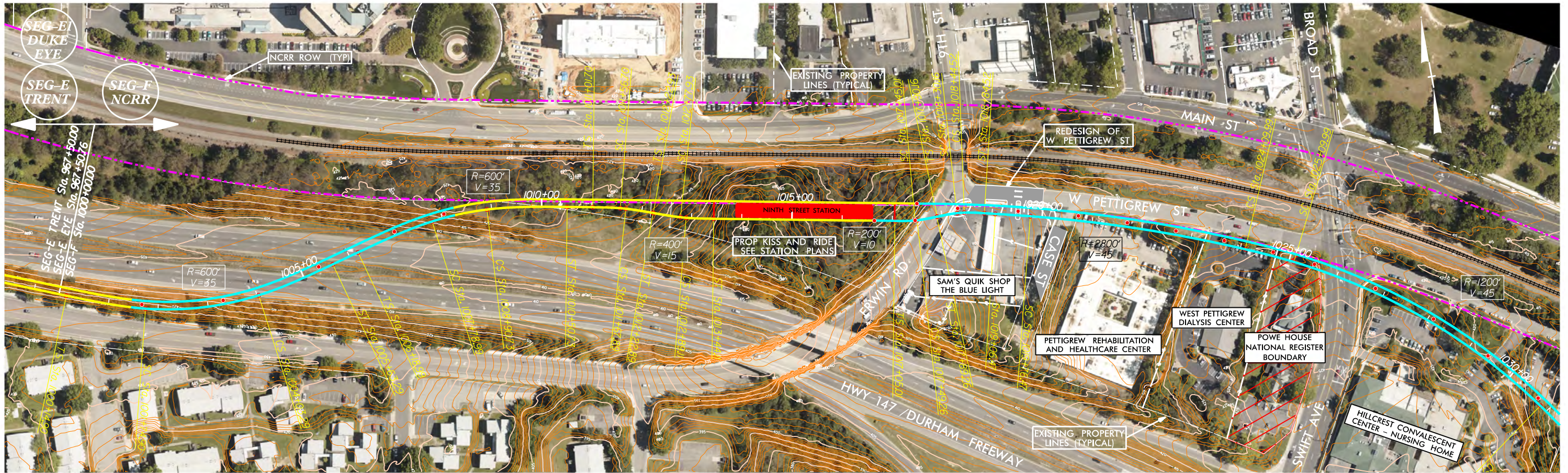
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## PLAN AND PROFILE SHEETS

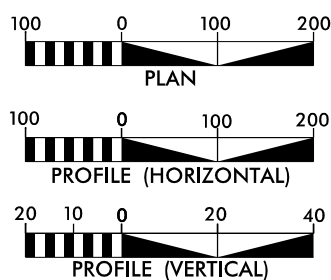




# NCRR CORRIDOR - NINTH STREET STATION



### GRAPHIC SCALES



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### LEGEND

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- ELEVATED TRK
- EXIST NCRR
- WETLANDS
- STATION



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### PLAN AND PROFILE

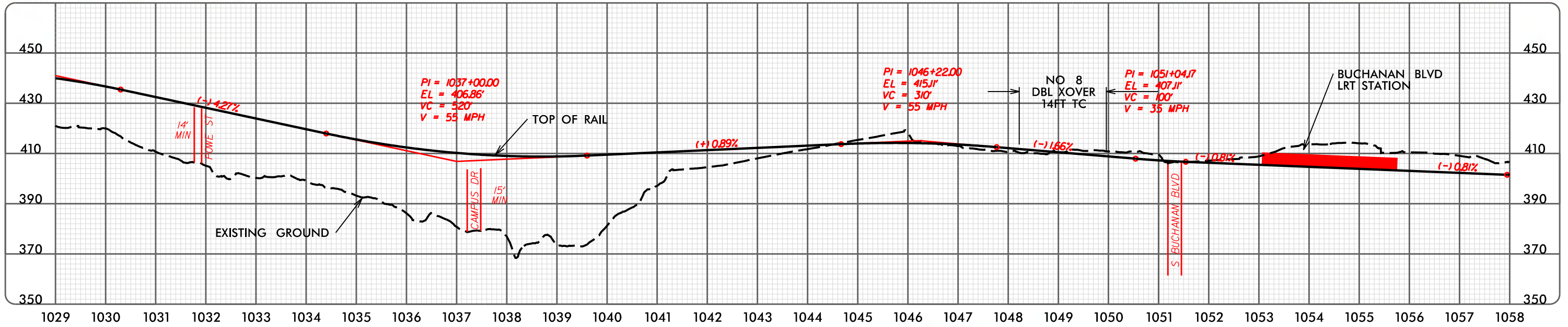
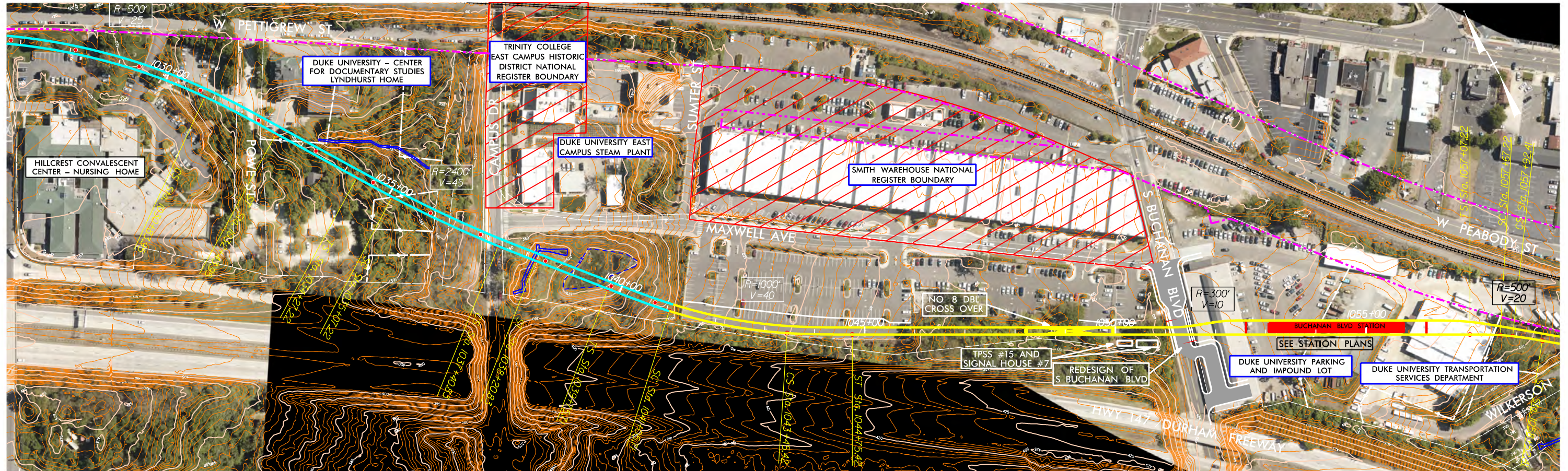
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PLAN & PROFILE

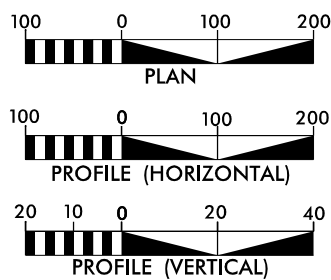
SHEET:  
F - 01



# NCRR CORRIDOR - BUCHANAN BOULEVARD STATION



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

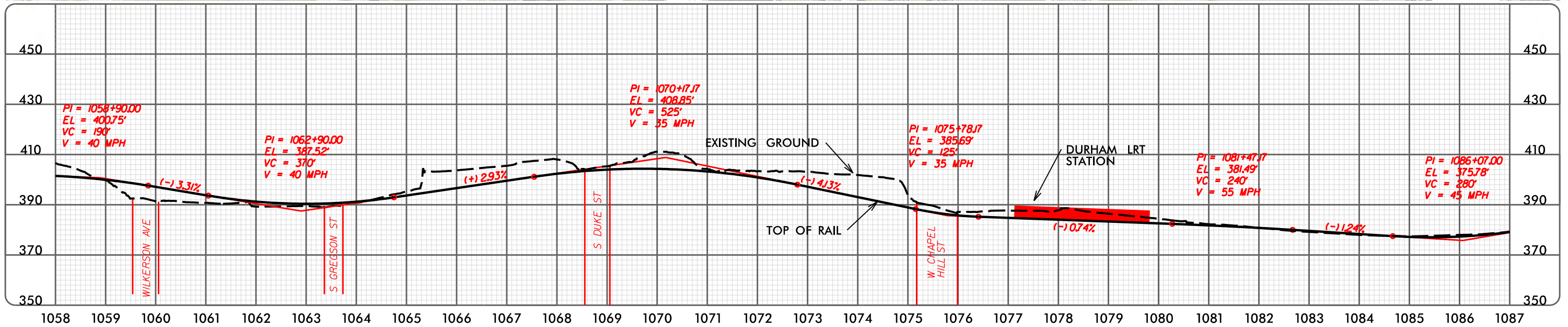
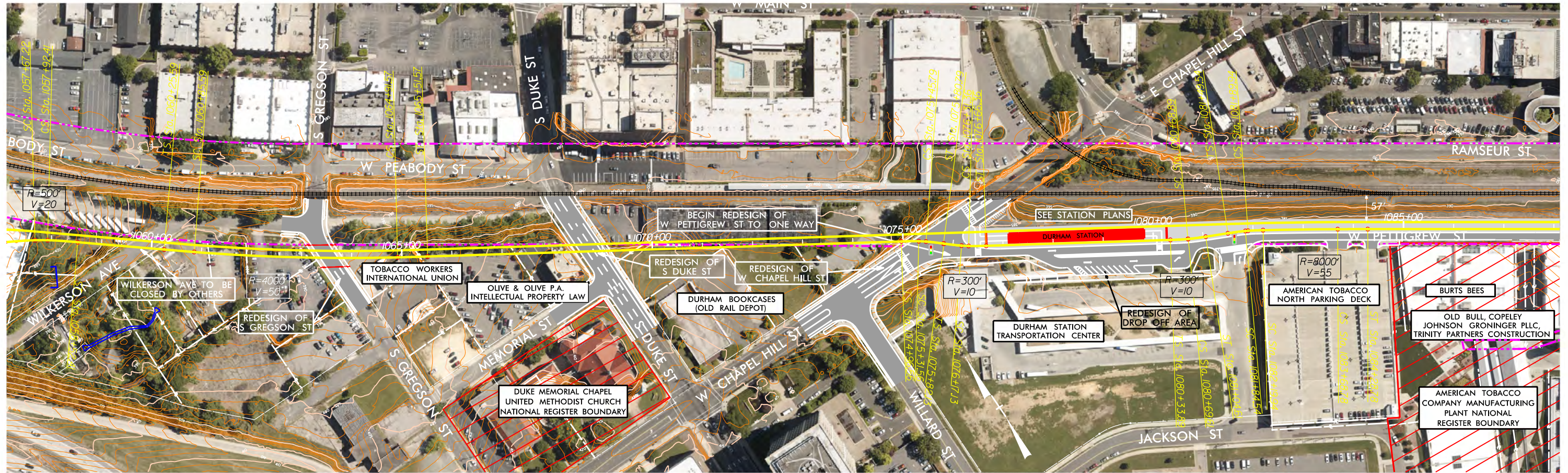
SEGMENT F

PLAN &  
PROFILE

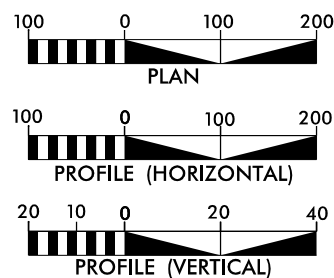
SHEET:  
F - 02



# NCRR CORRIDOR - DURHAM STATION



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

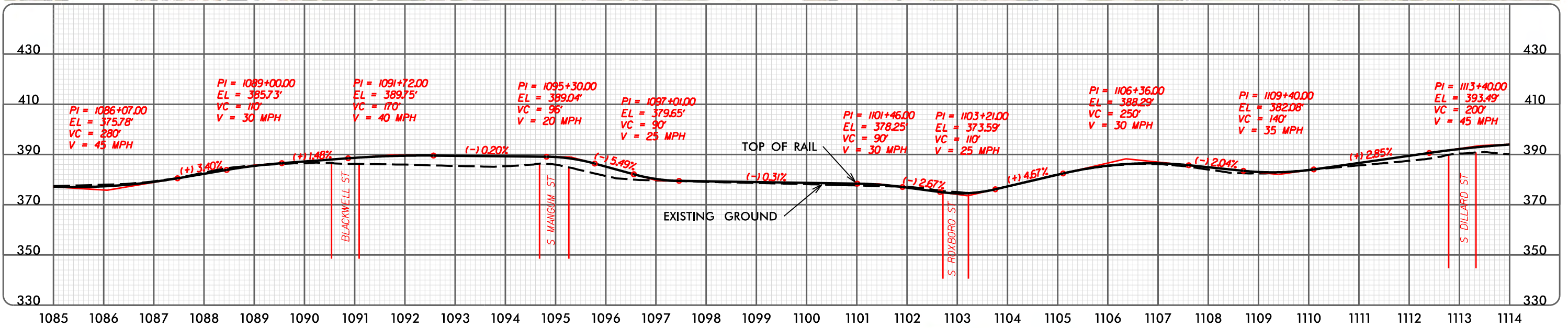
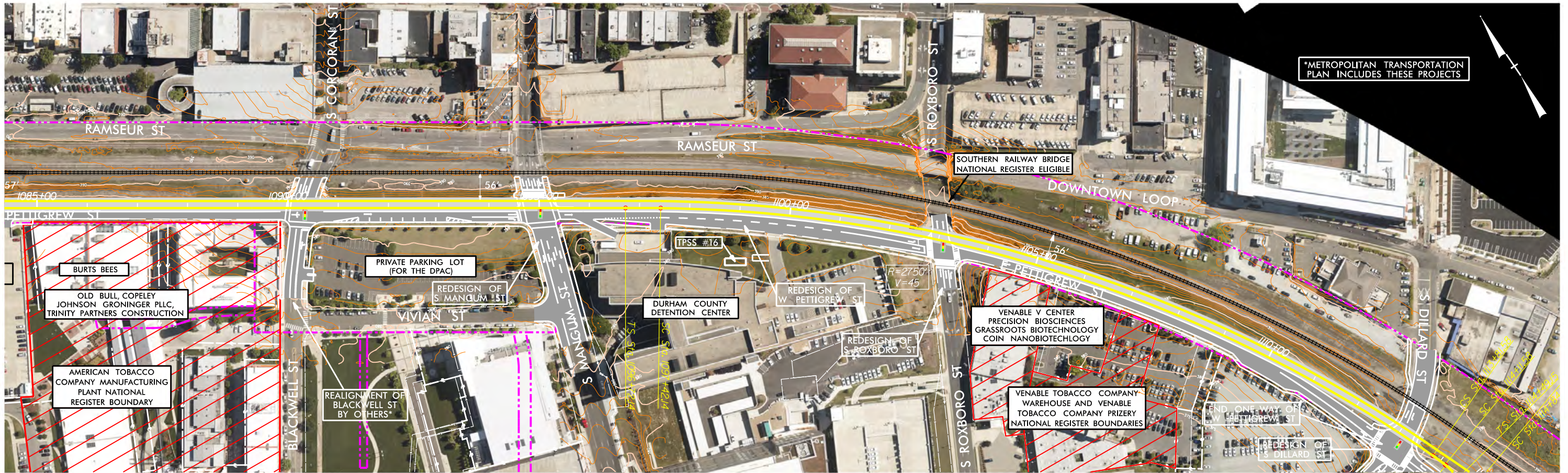
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**PLAN &  
PROFILE**

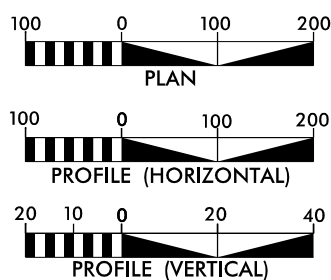
SHEET:  
F - 03



# NCRR CORRIDOR - ALONG PETTIGREW STREET



### GRAPHIC SCALES



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### LEGEND

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### PLAN AND PROFILE

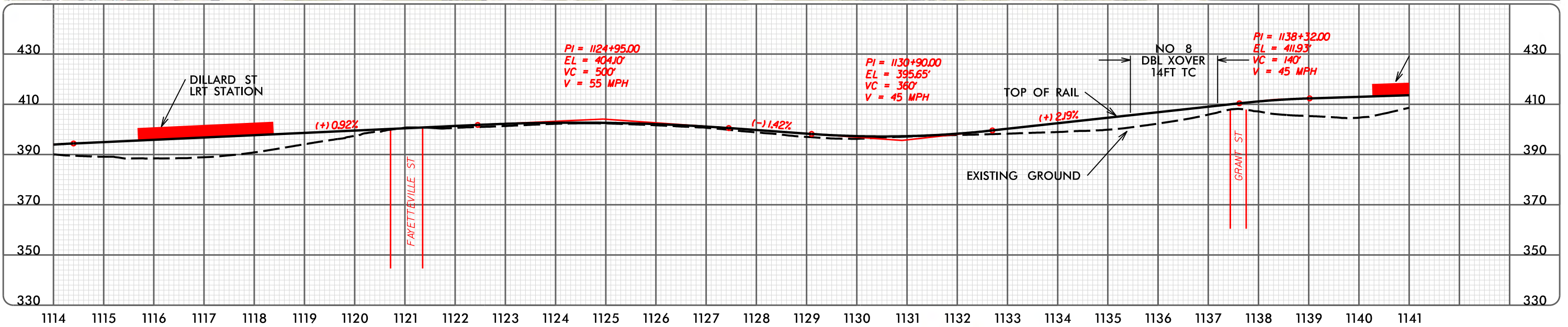
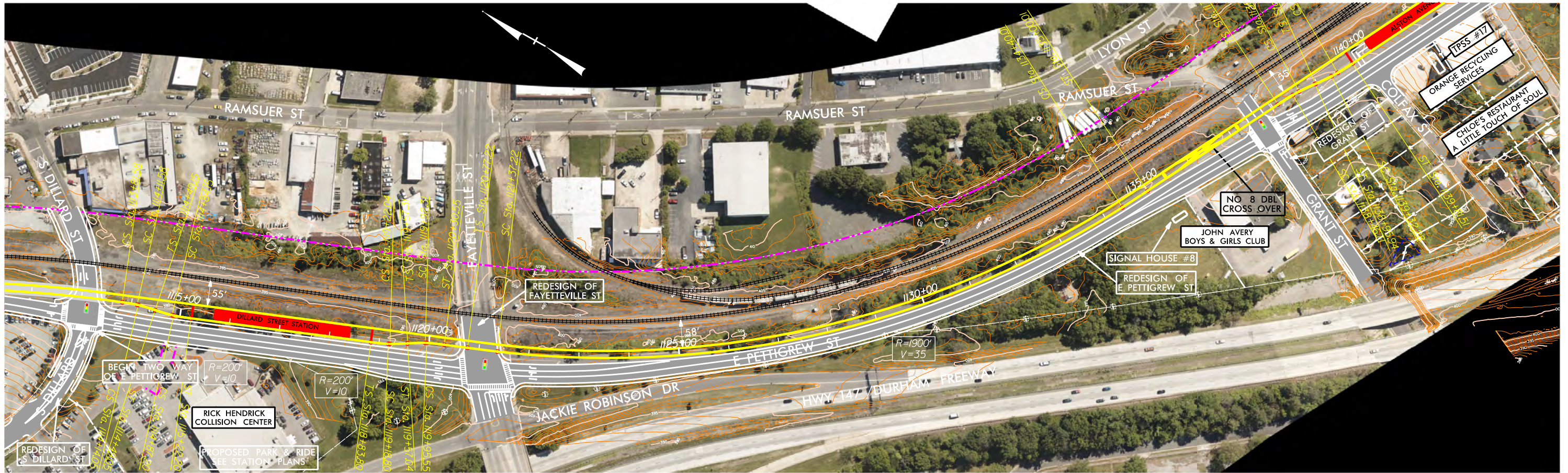
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PLAN &  
PROFILE

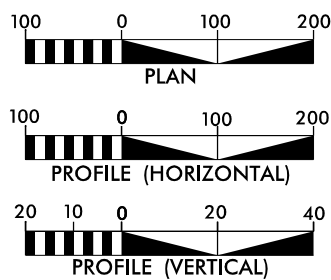
SHEET:  
F - 04



# NCRR CORRIDOR - DILLARD STREET STATION



### GRAPHIC SCALES



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### LEGEND

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- STATION



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### PLAN AND PROFILE

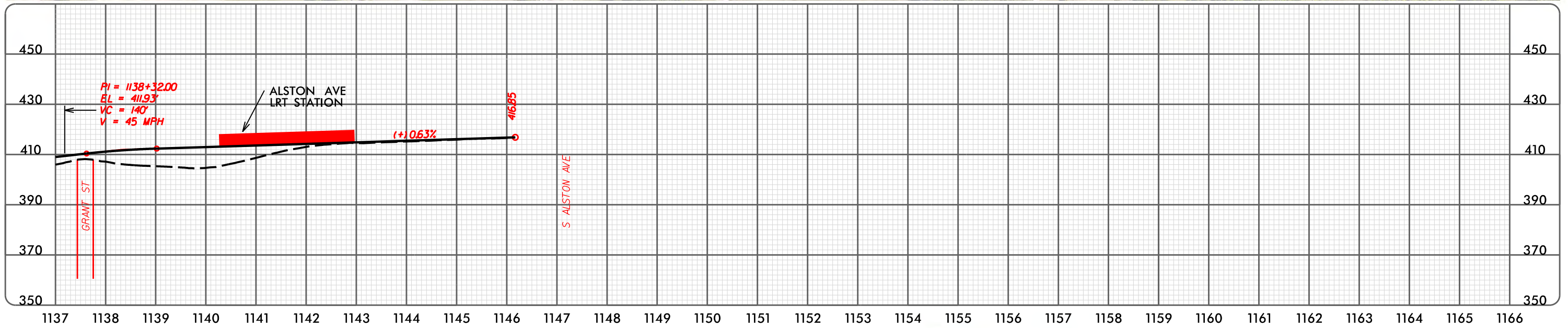
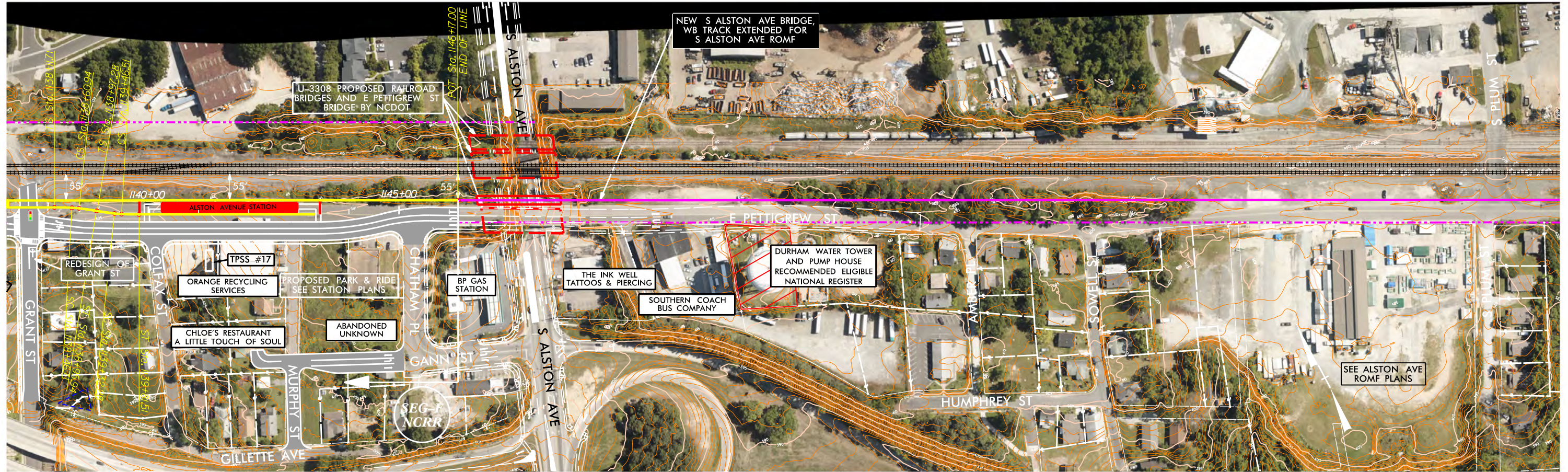
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PLAN &  
PROFILE

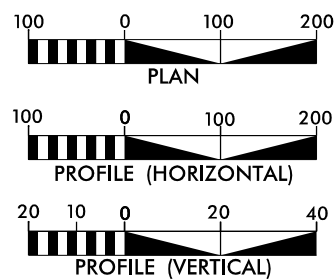
SHEET:  
F - 05



# NCRR CORRIDOR - ALSTON AVENUE STATION



### GRAPHIC SCALES



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### LEGEND

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- EXIST NCRR
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### PLAN AND PROFILE

**SEGMENT F**

**PLAN &  
PROFILE**

**SHEET:  
F - 06**