HAMPTON ROADS TRANSIT

U.S. Department of Transportation
Federal Transit Administration

Draft Environmental Impact Statement

VIRGINIA BEACH TRANSIT EXTENSION STUDY

Appendix G-3

Draft Conceptual Drawings

Bus Rapid Transit

Alternative 1A (Town Center)

Alternative 1B (Rosemont)

Alternative 2 (NSRR)

Newtown Road Station to the Proposed Oceanfront Station

February 2015

Cover image: courtesy of the City of Virginia Beach

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DRAWING NUMBER	DRAWING TITLE
GENERAL DRAWINGS	
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GENERAL NOTES

1. EXISTING UTILITIES ARE BASED ON SURVEY PROVIDED BY THE CITY OF VIRGINIA BEACH AND DESIGN DRAWINGS PROVIDED BY UTILITY AGENCIES.
2. EXISTING NORFOLK SOUTHERN RAILWAY RIGHT-OF-WAY LINES ARE BASED ON SURVEY PROVIDED BY THE CITY OF VIRGINIA BEACH.

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CONTRACT NO.

DRAWING NO. VB-IN-0002

OF

INDEX OF DRAWINGS

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NO.	REVISION DESCRIPTION	BY	DATE

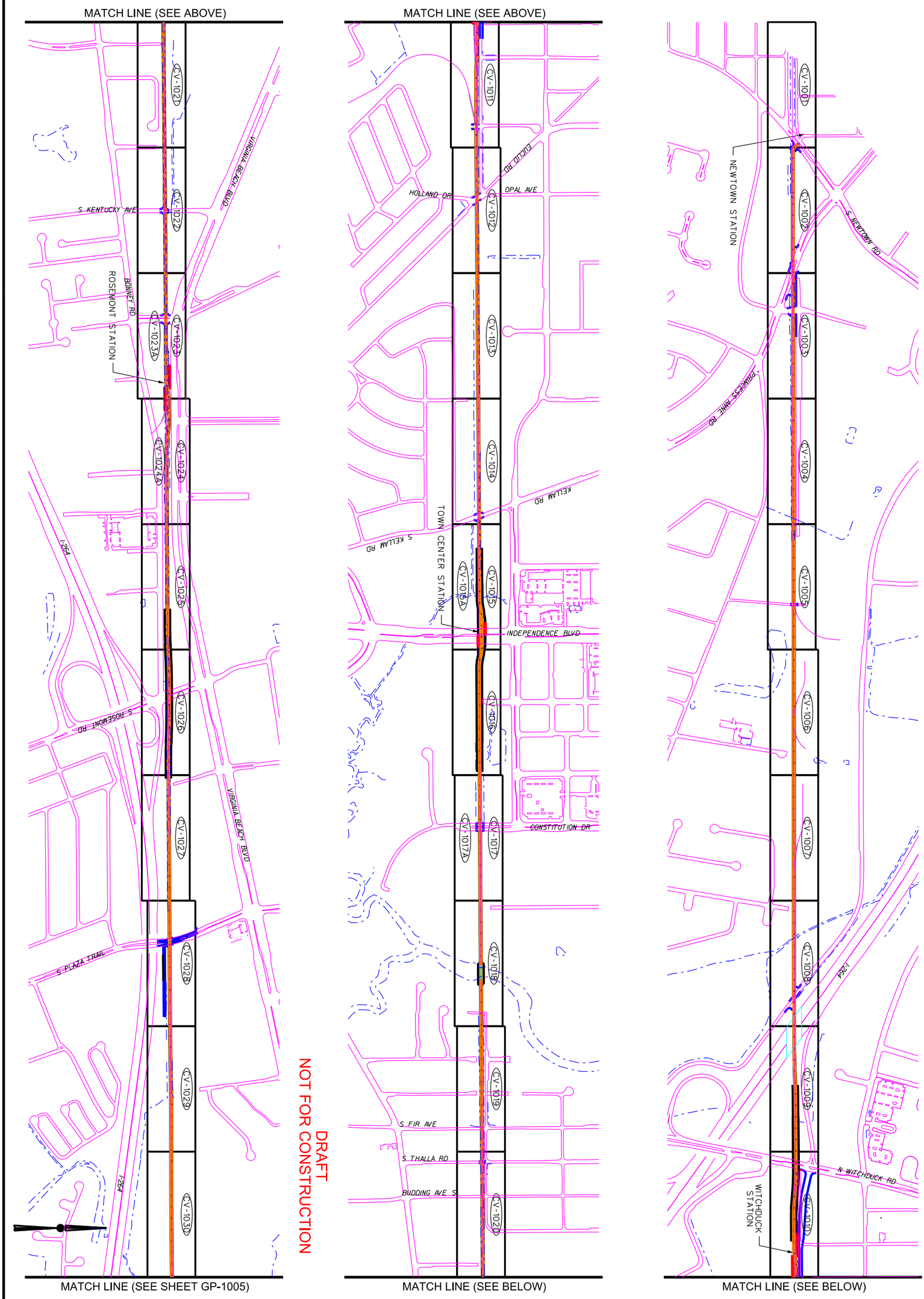
APPR.	CHCK.	DRWN.	DESIGN.
DATE	KVL	RWB	RWB
DATE	DATE	DATE	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY



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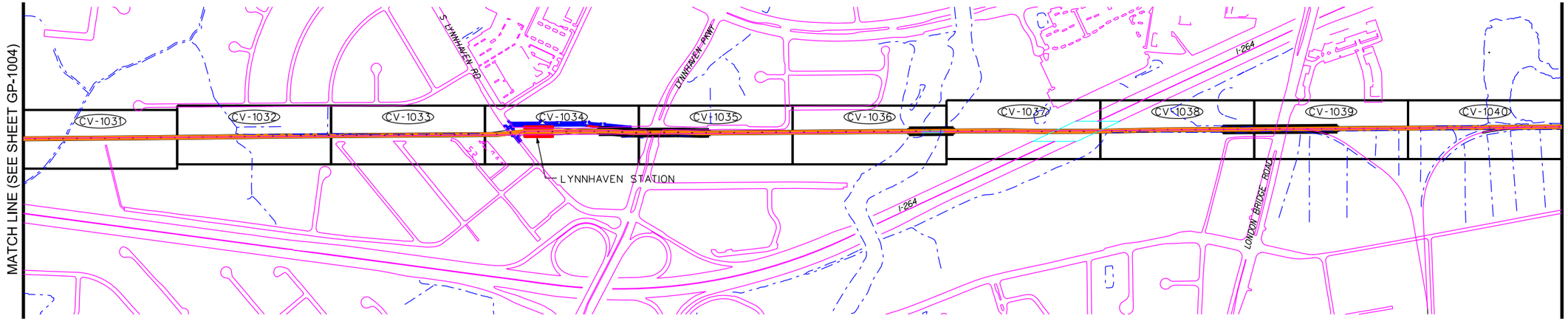

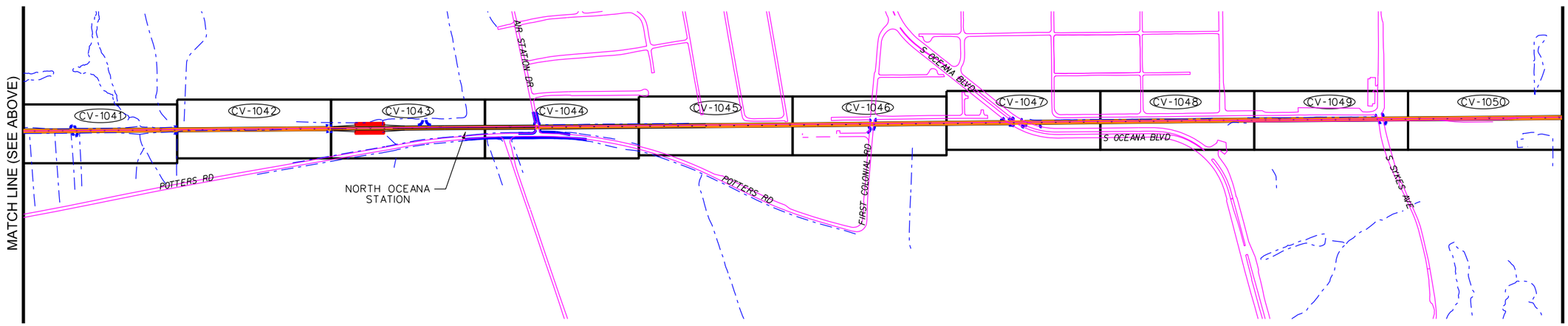

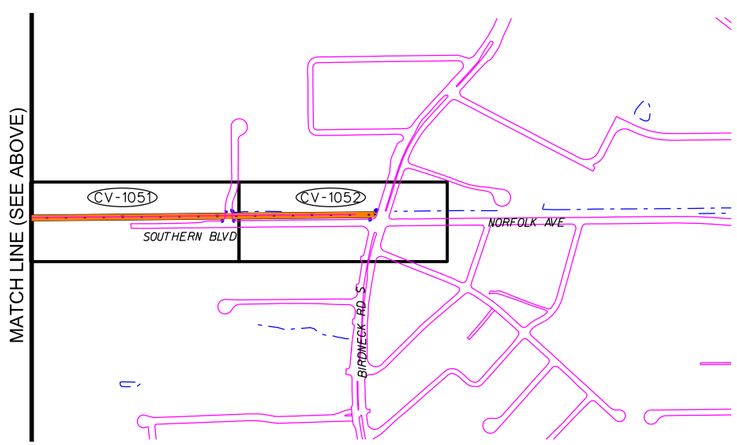

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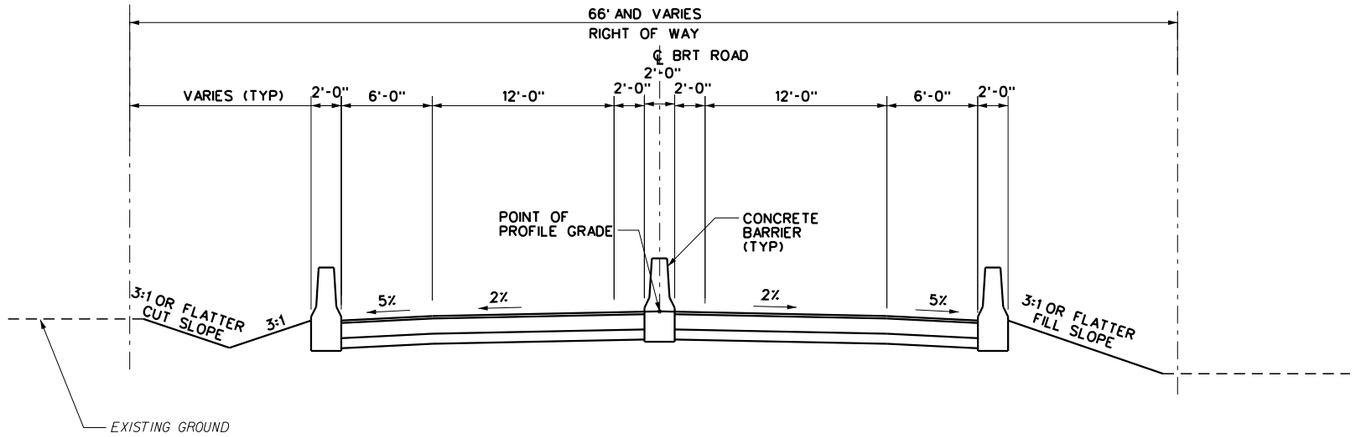

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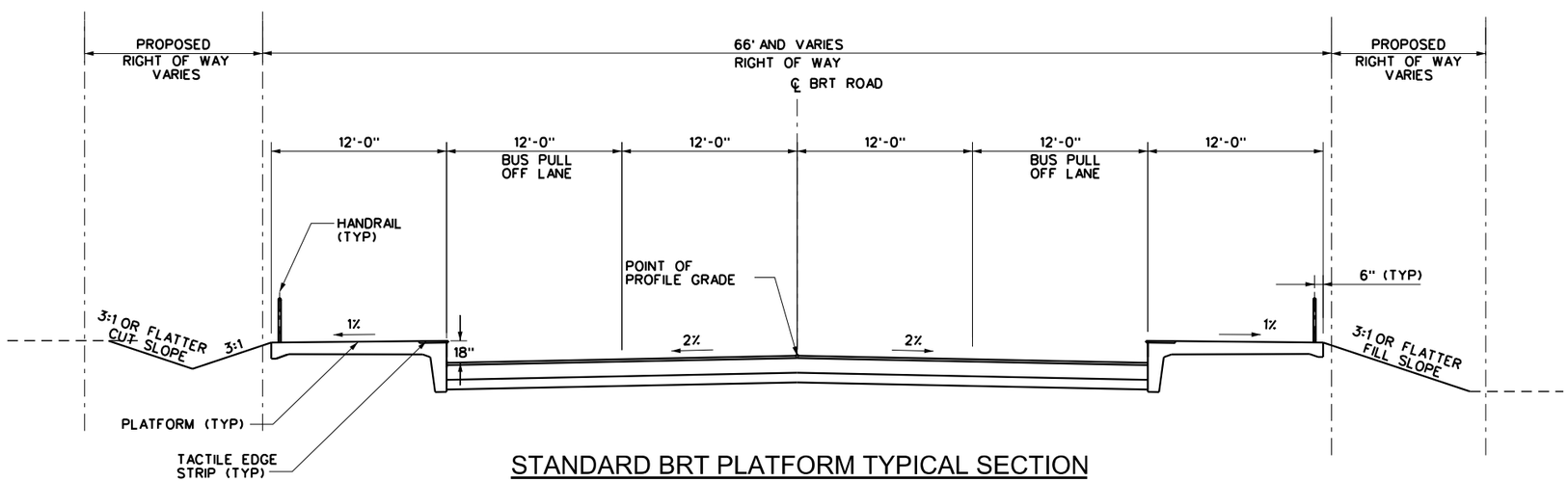

STANDARD BRT PLATFORM TYPICAL SECTION

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HDR
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VIRGINIA BEACH TRANSIT
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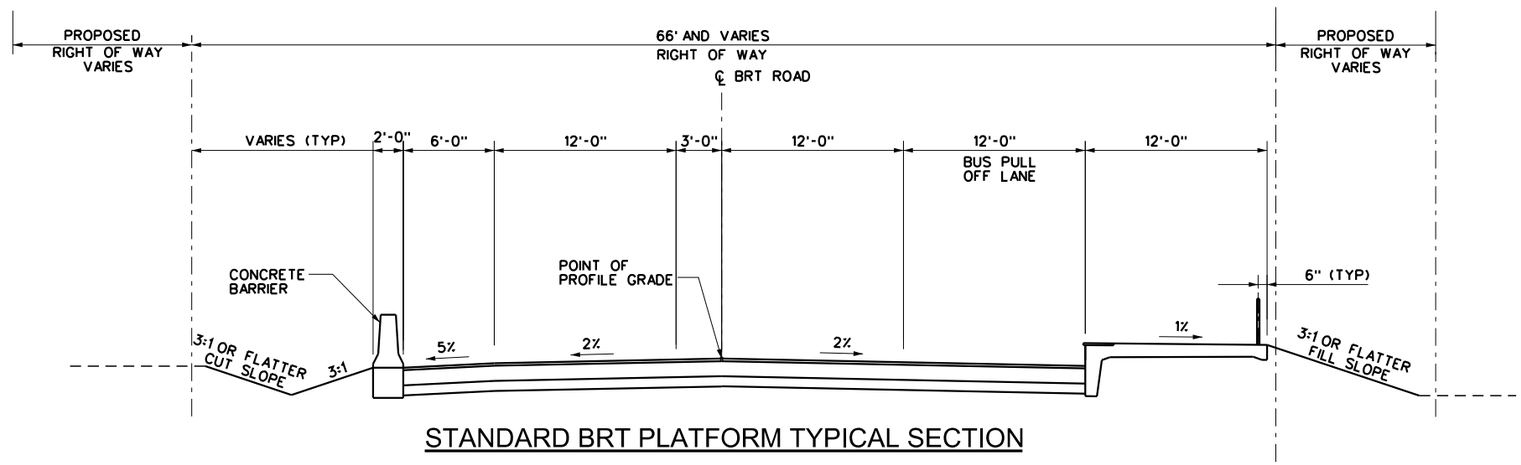

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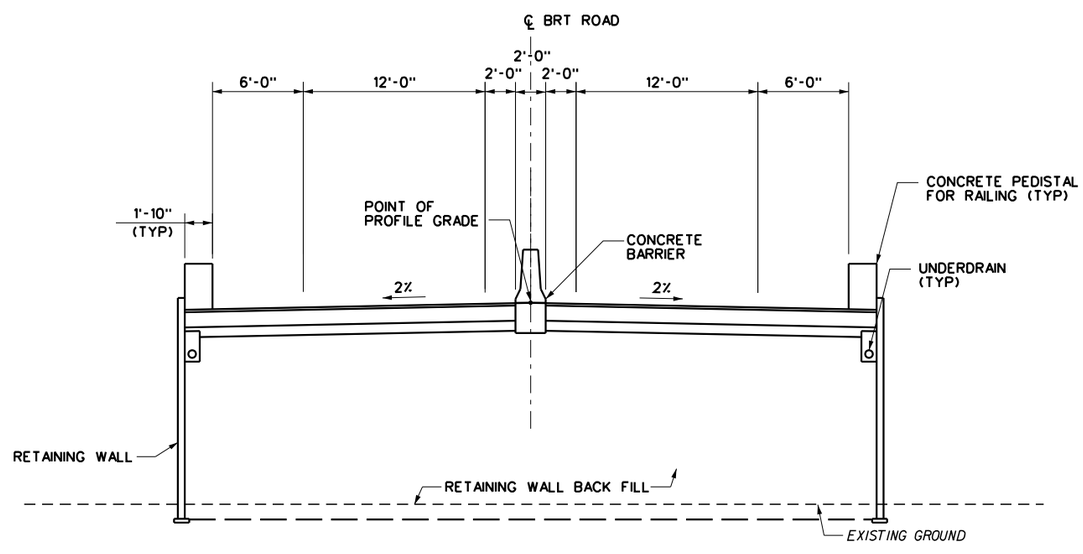

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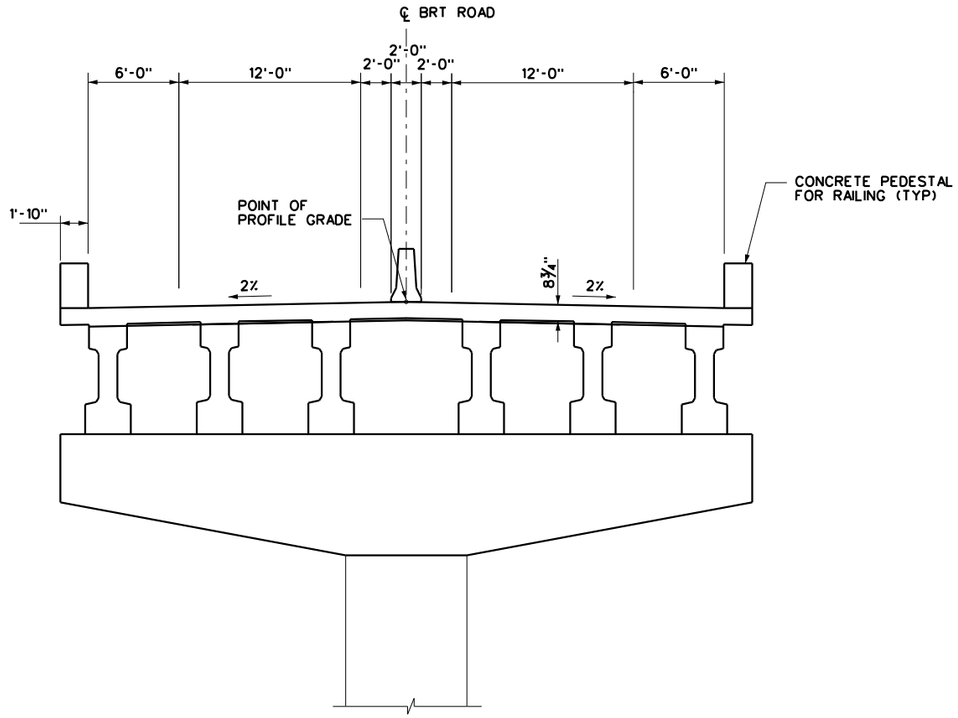

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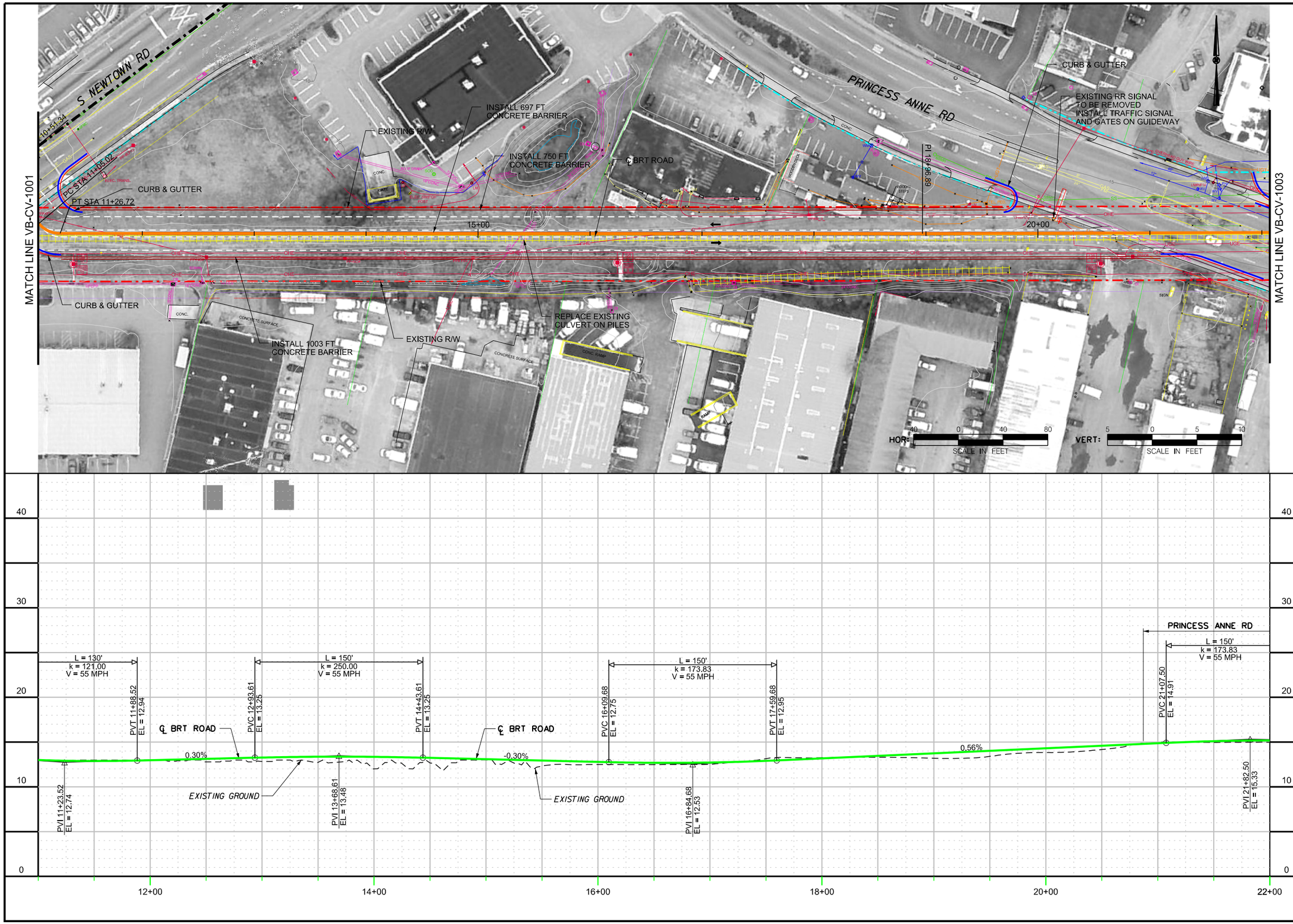

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DESIGN SAB	DATE

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HDR

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VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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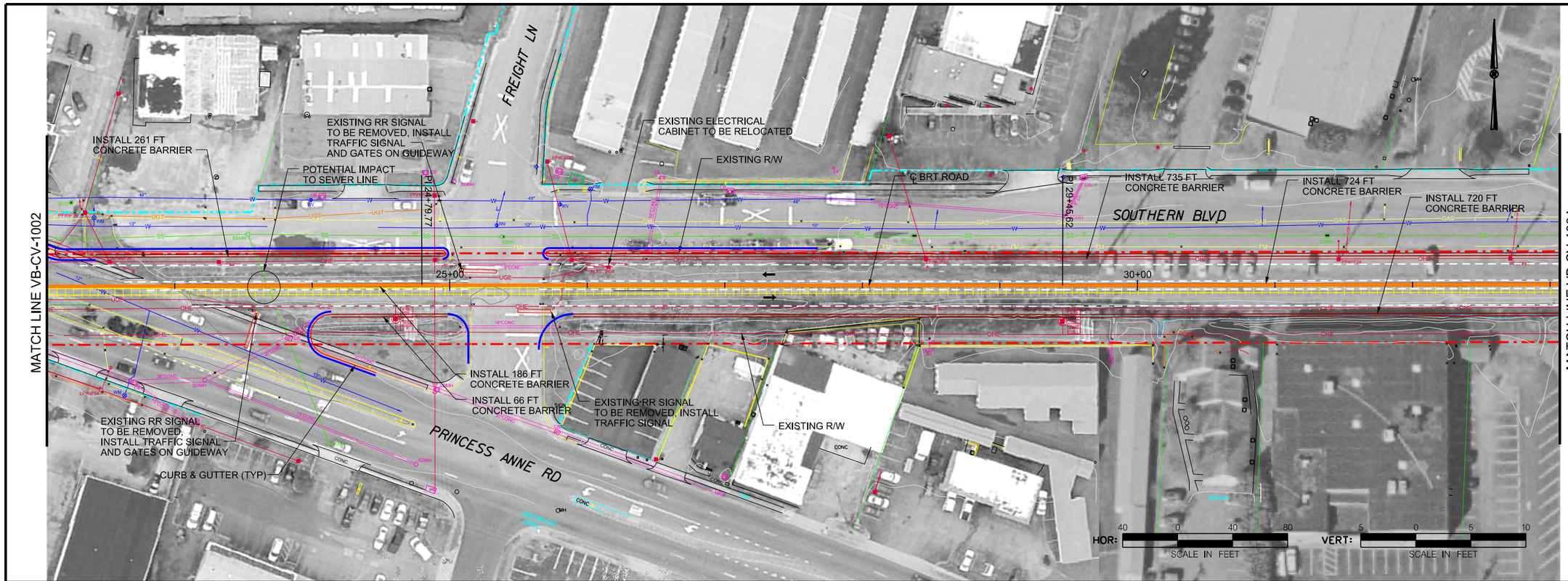

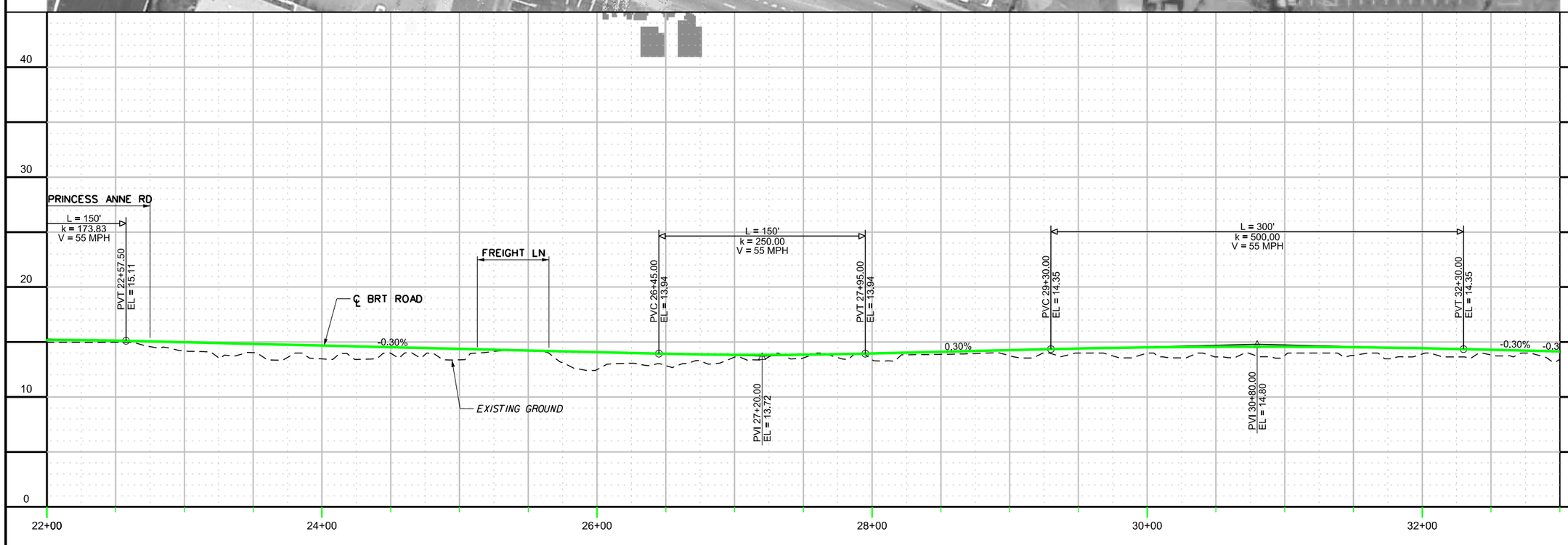

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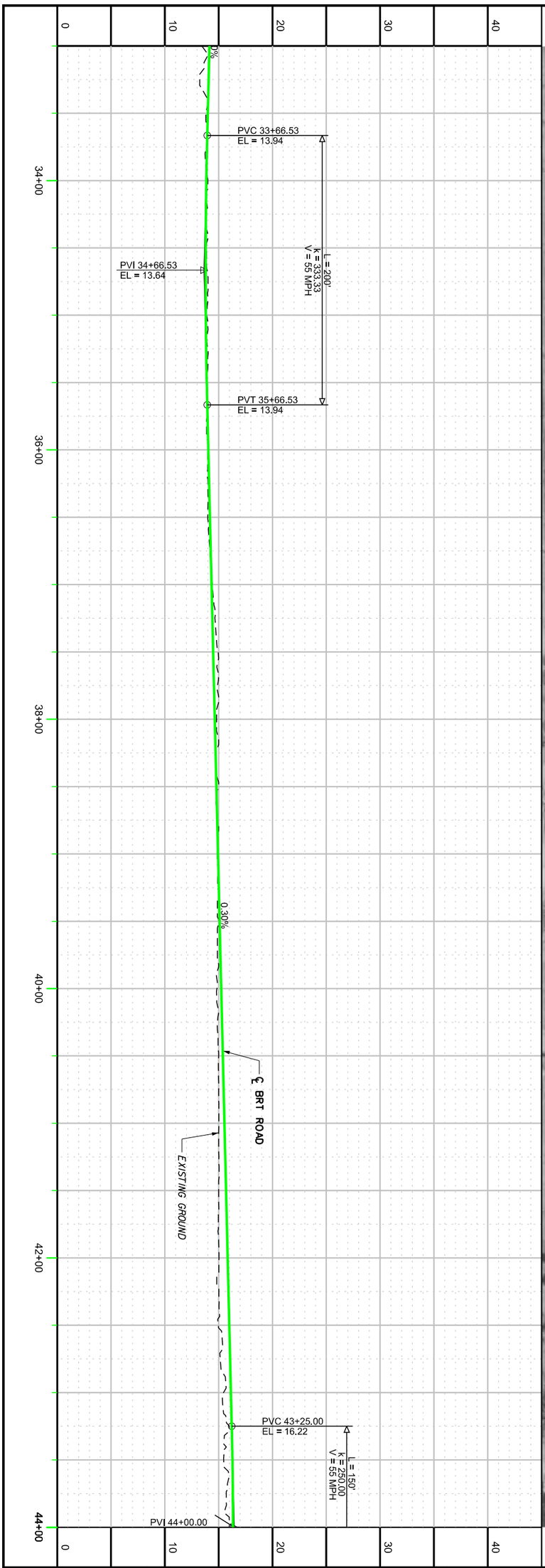
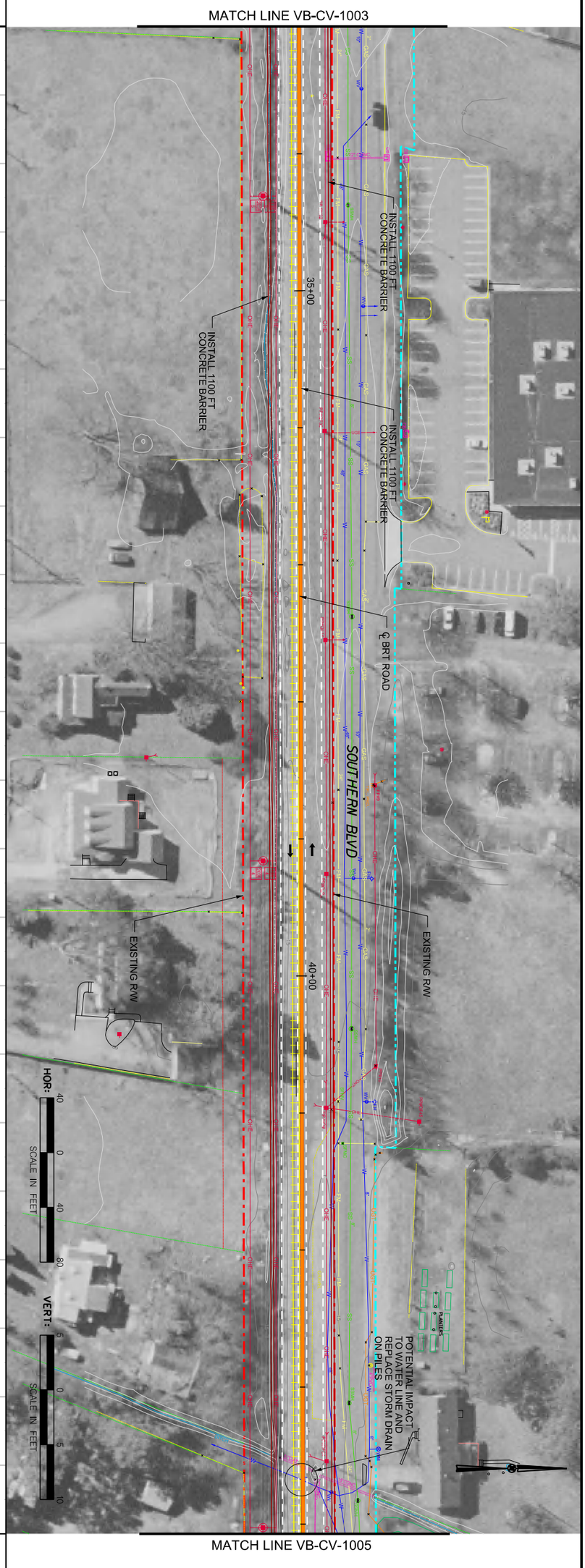
HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY





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VIRGINIA BEACH TRANSIT EXTENSION STUDY

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BUS TRANSIT
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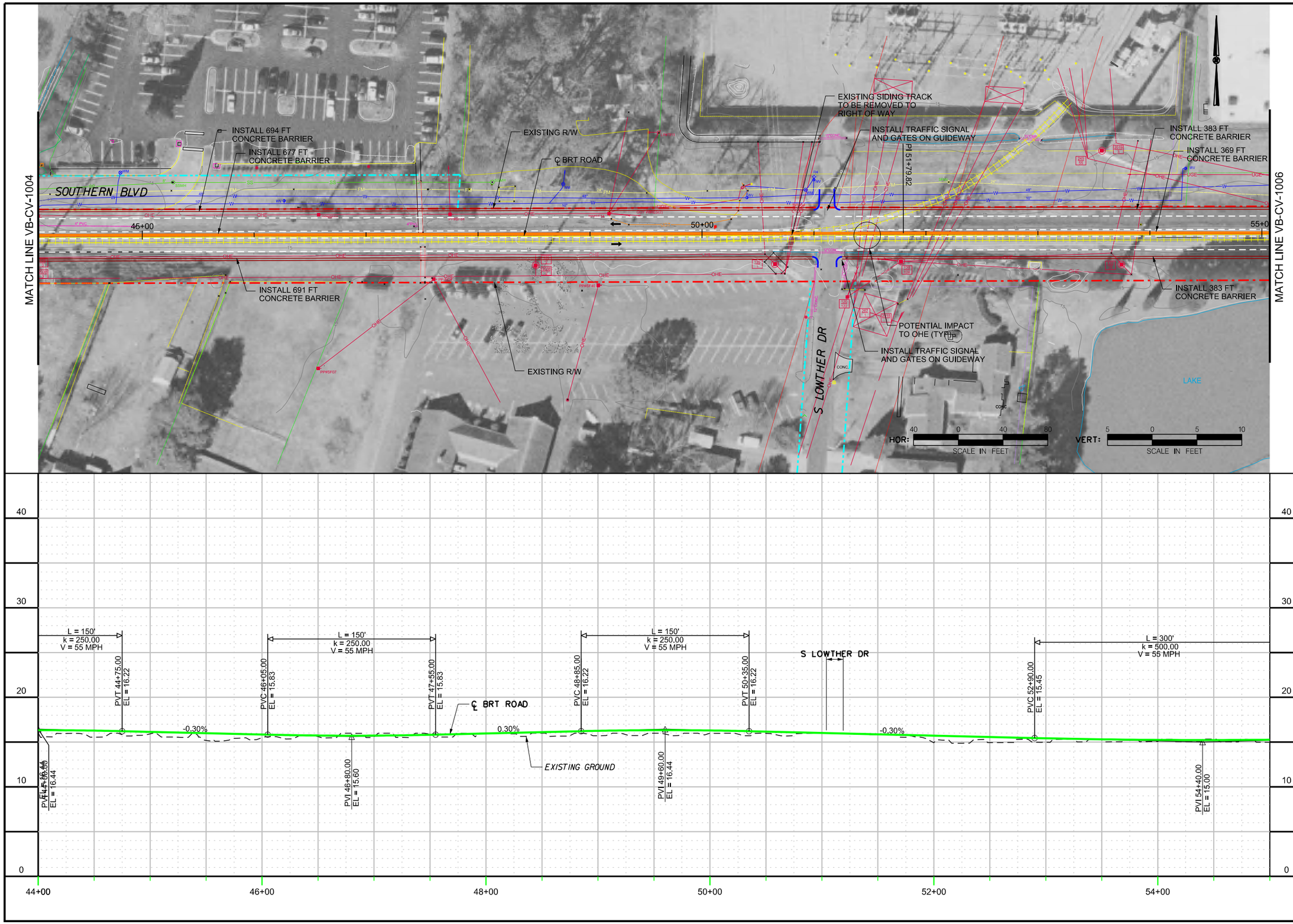

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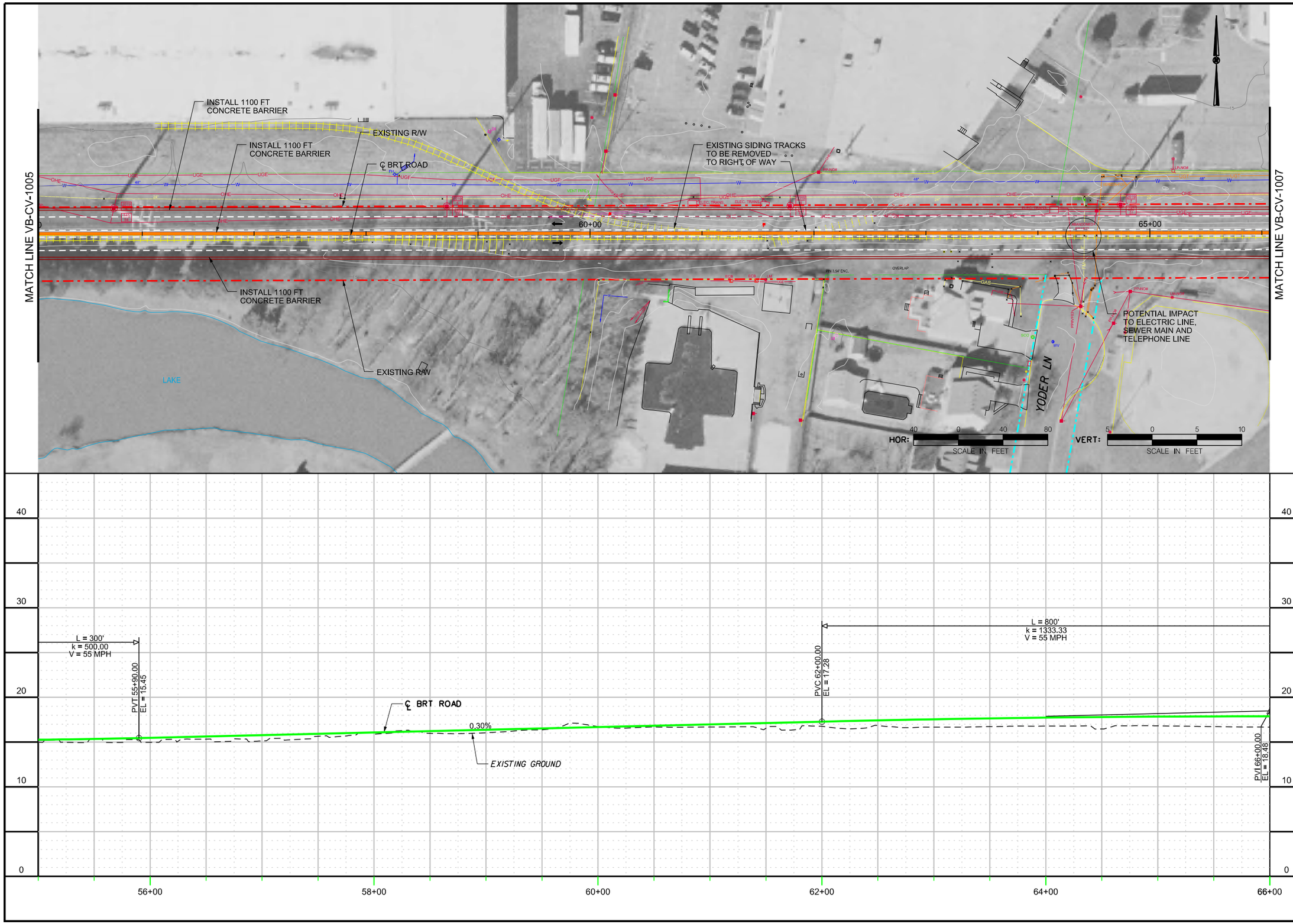

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HAMPTON ROADS TRANSIT

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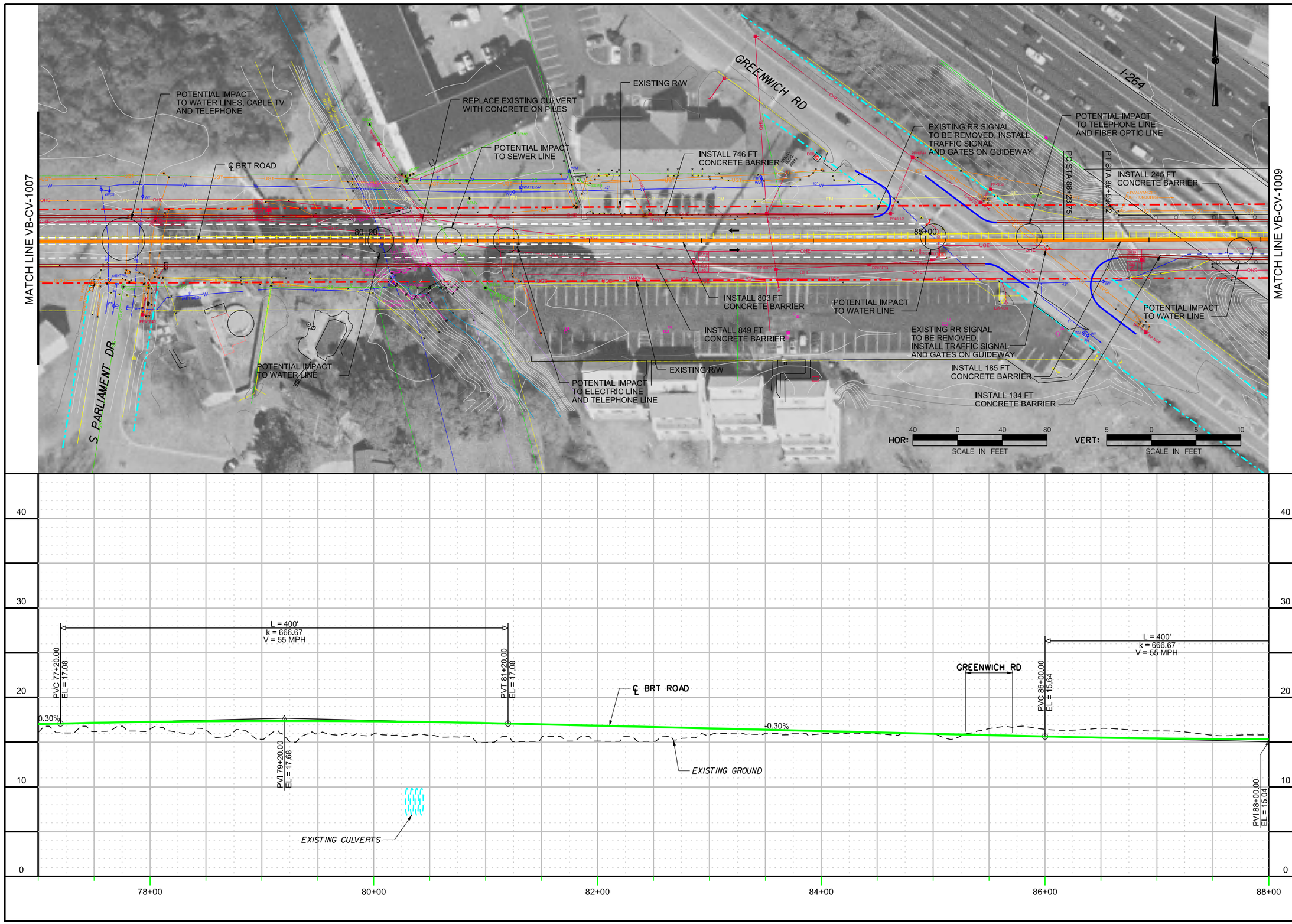

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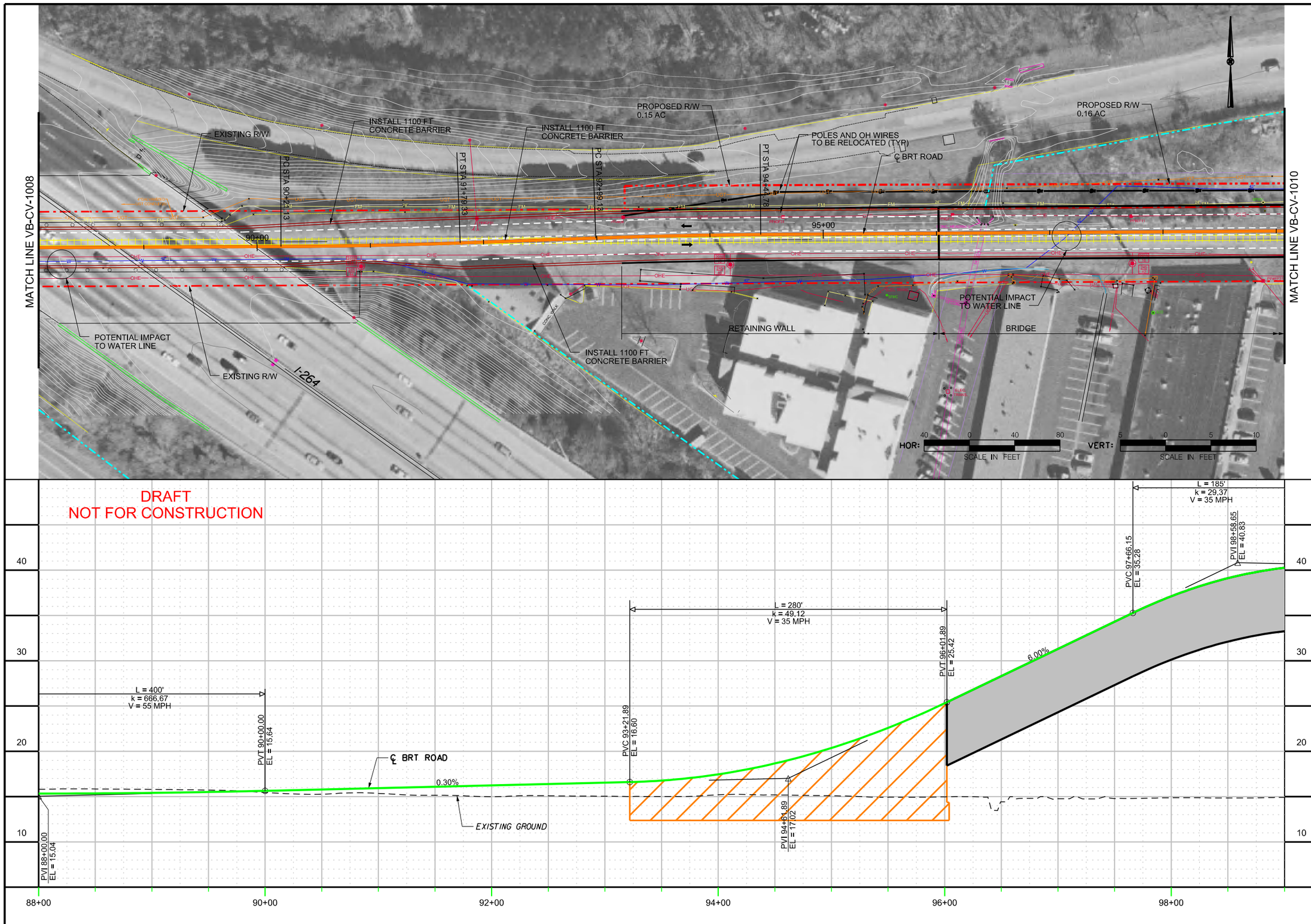

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
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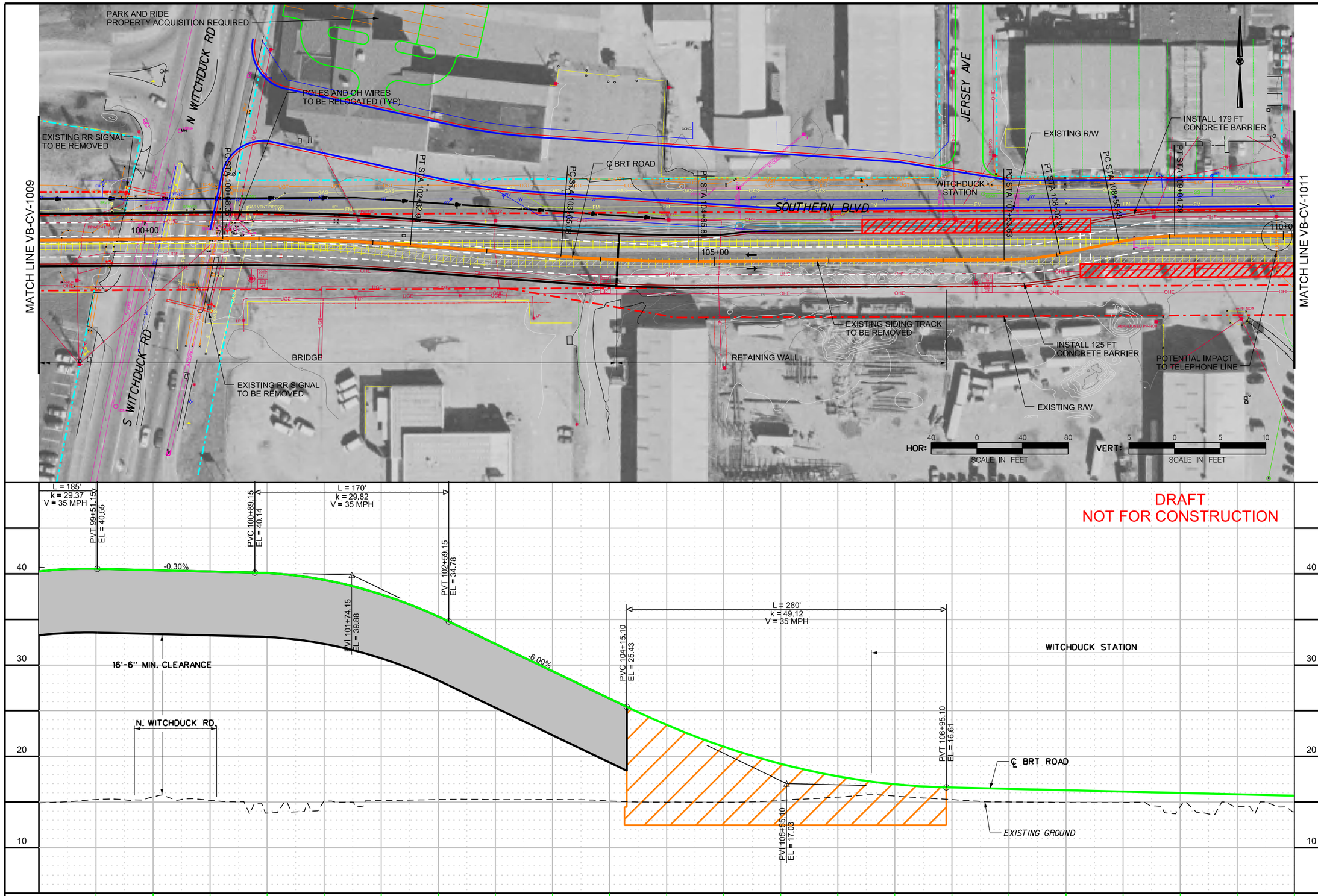

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VIRGINIA BEACH TRANSIT
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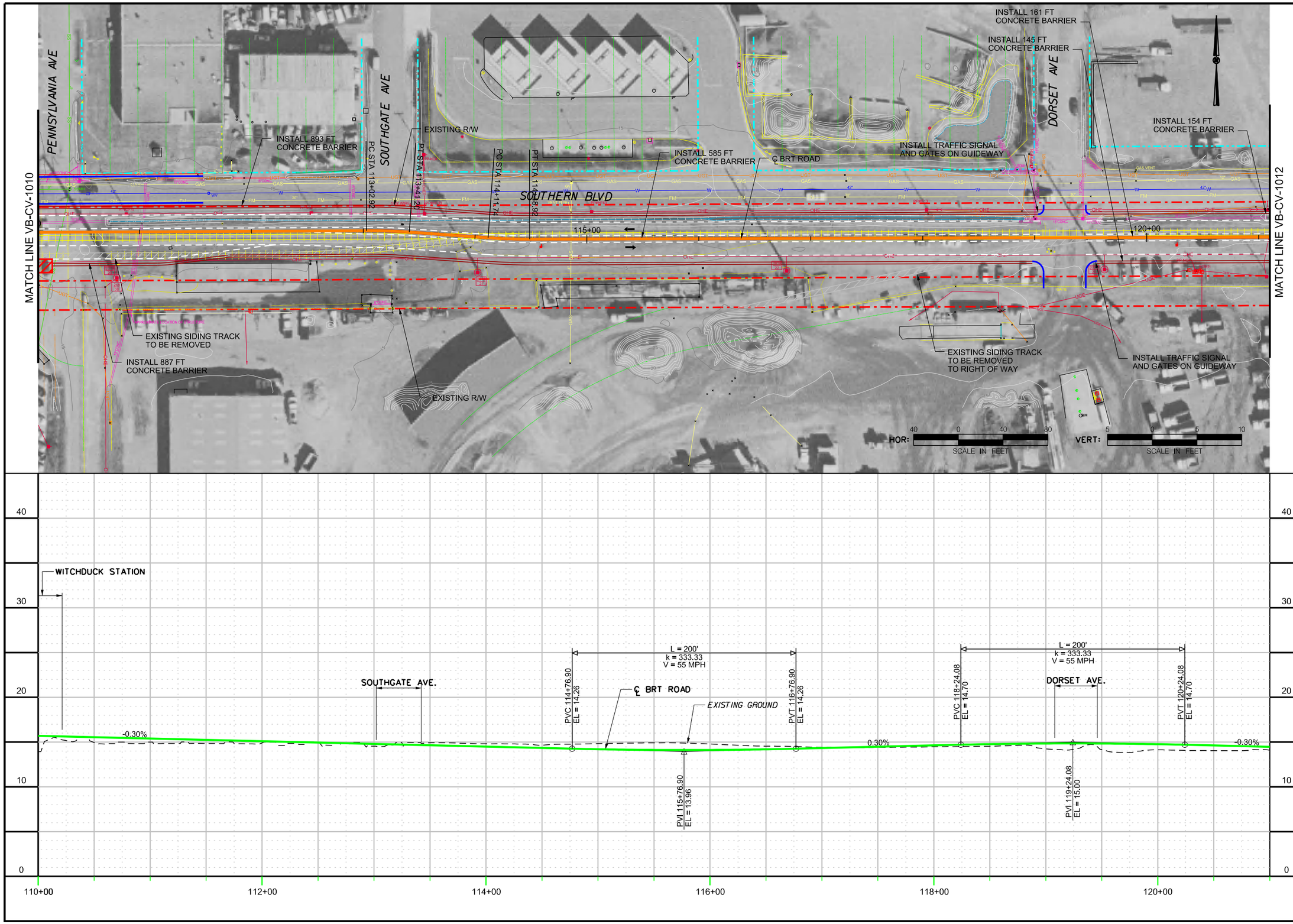

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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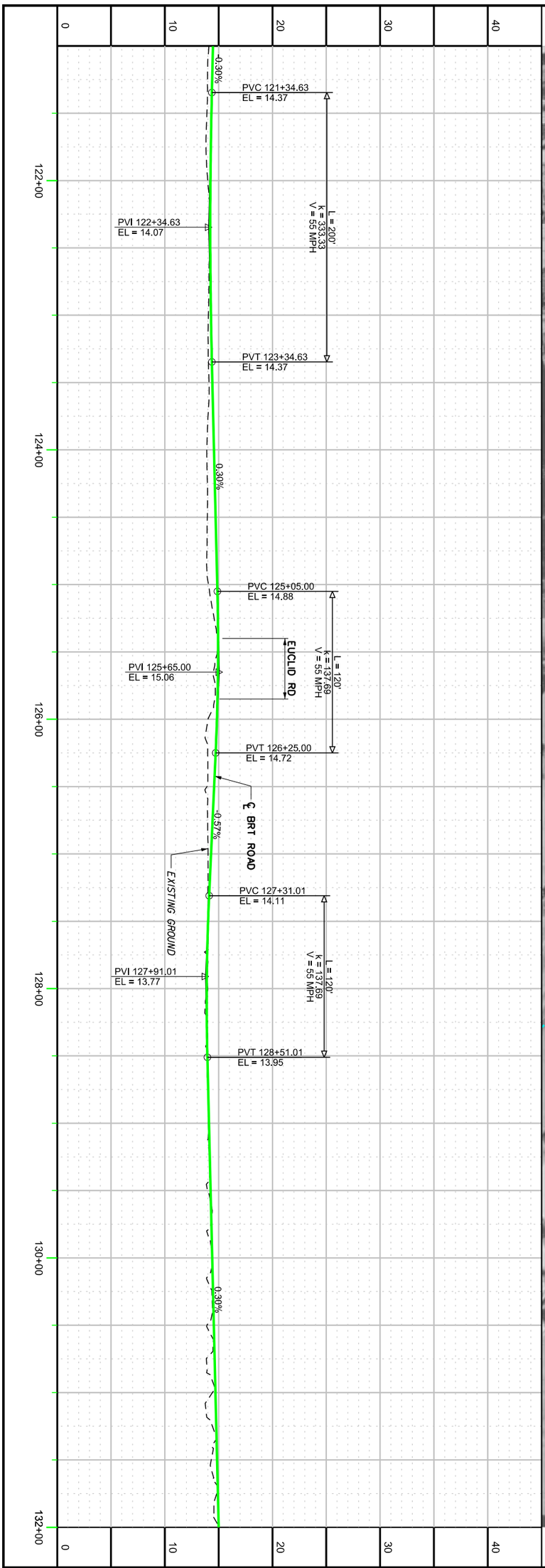

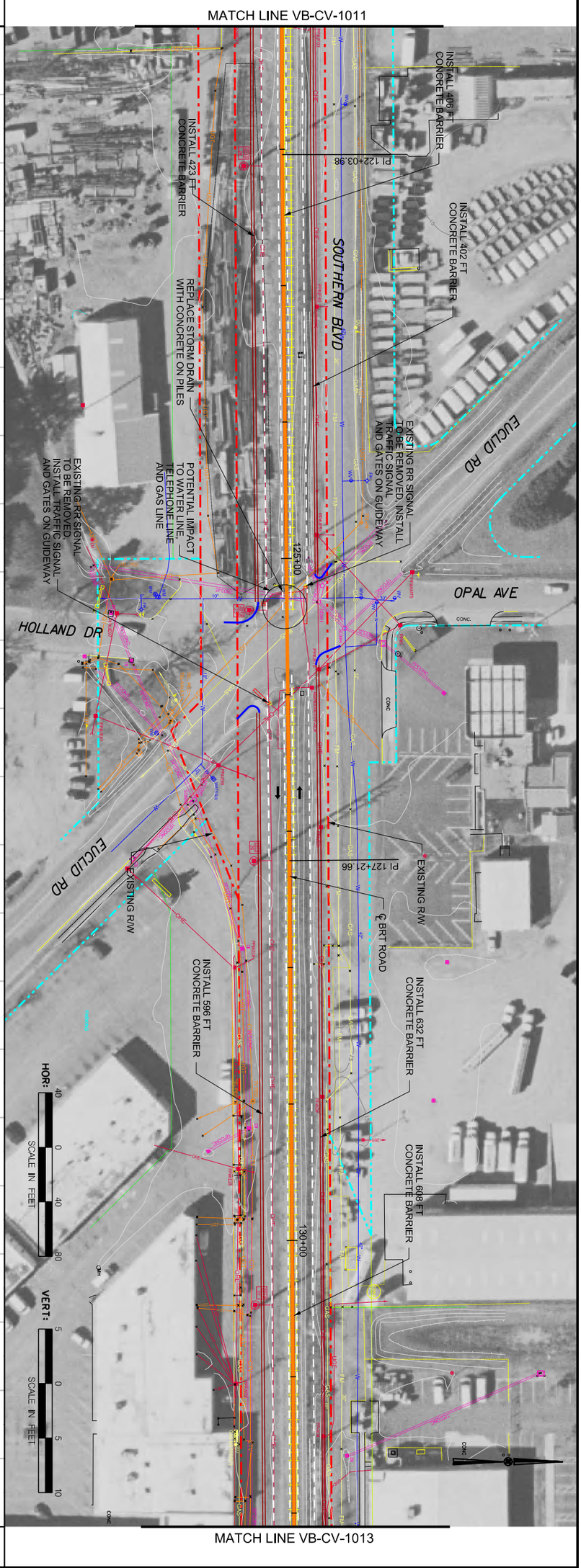

HAMPTON ROADS TRANSIT

PLANS PREPARED BY: HDR

VIRGINIA BEACH TRANSIT EXTENSION STUDY

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BUS TRANSIT
PLAN / PROFILE
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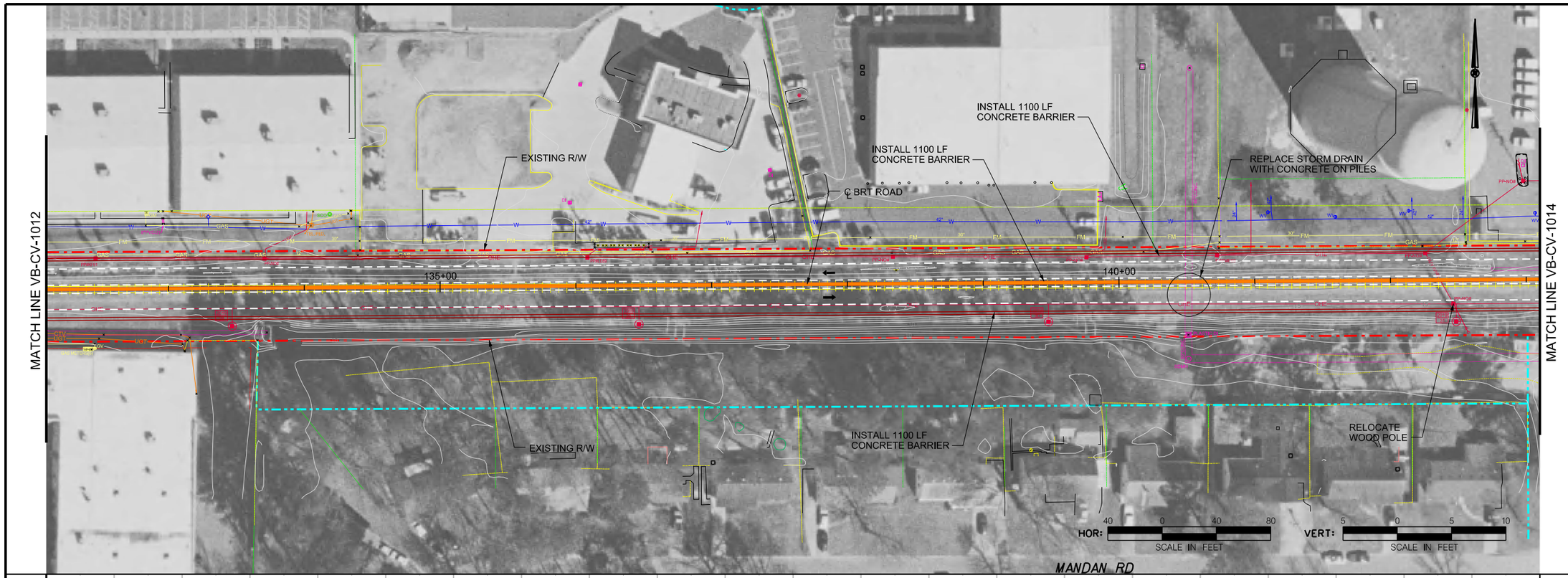

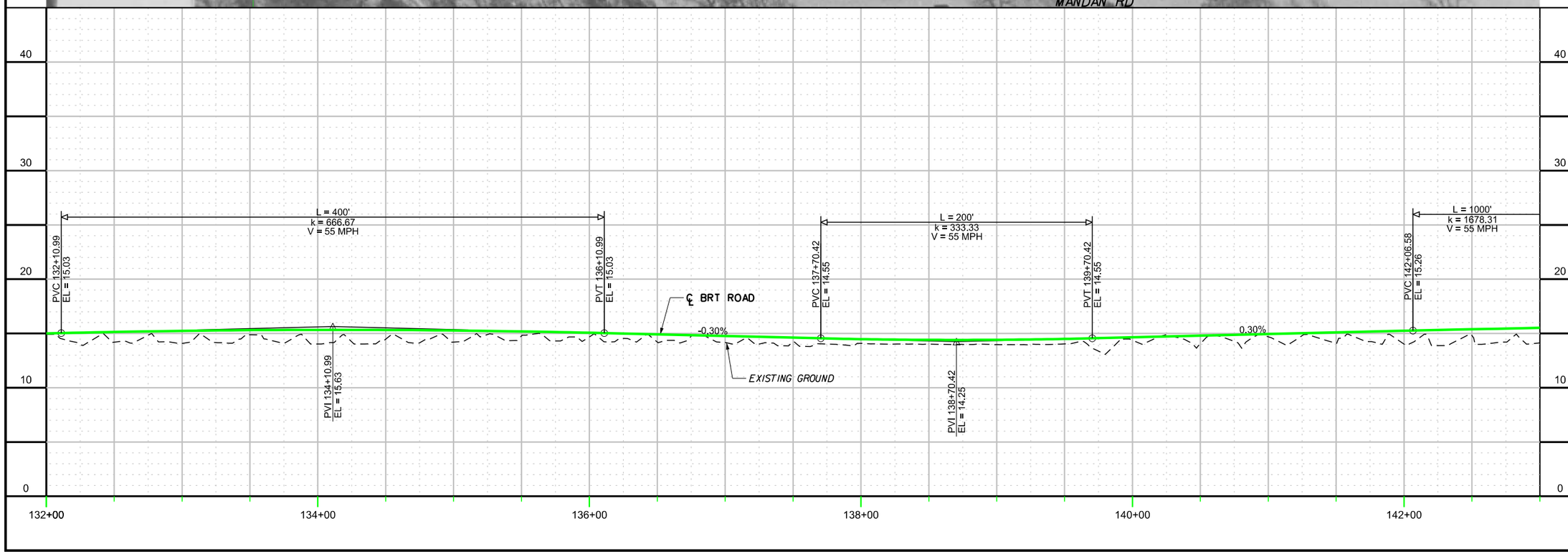

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NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY

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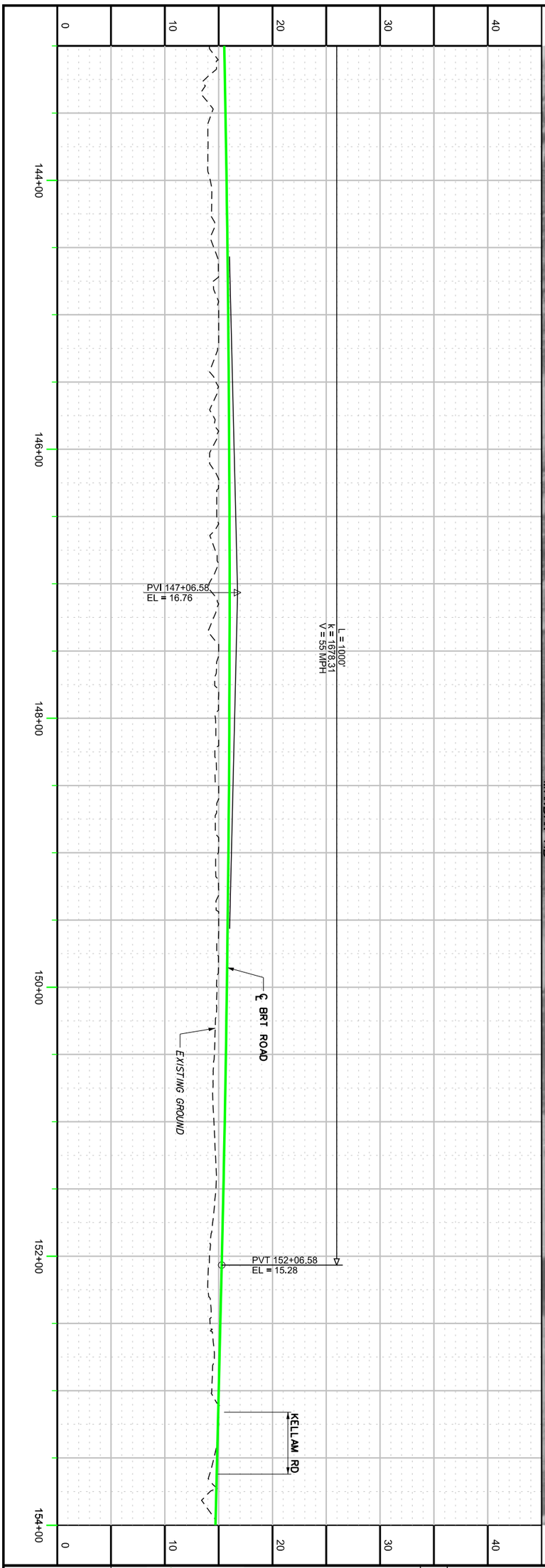

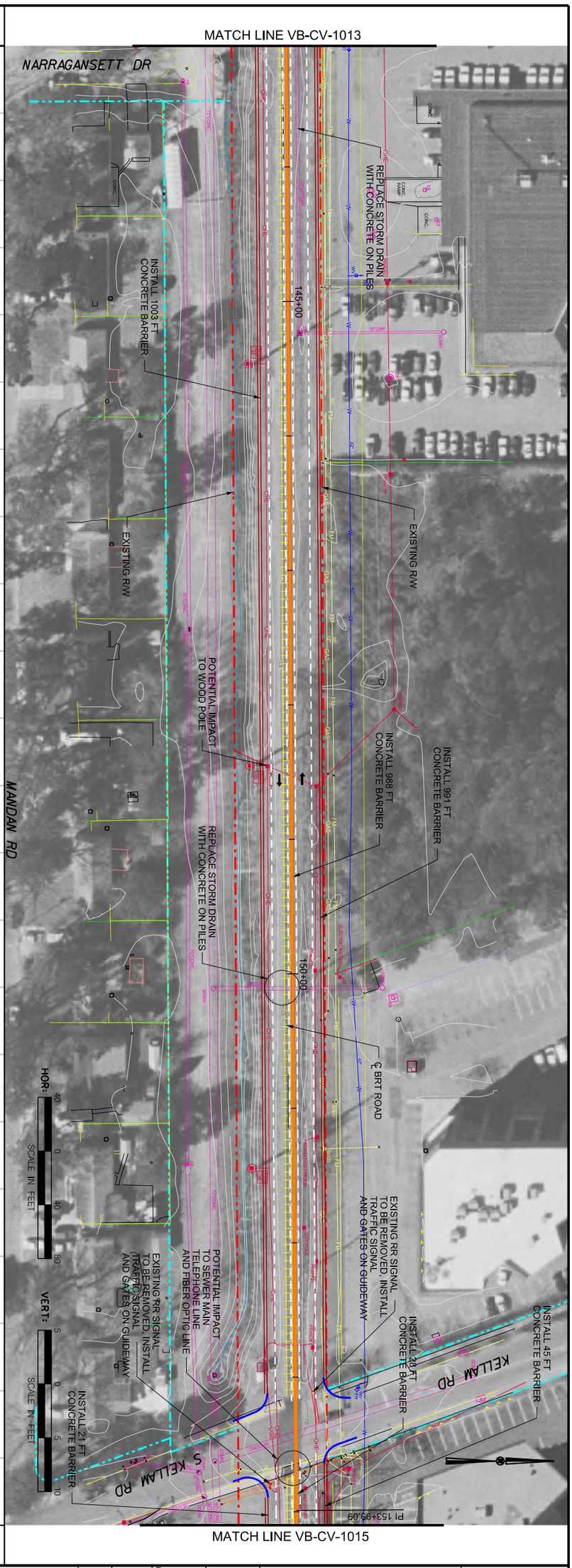

HAMPTON ROADS TRANSIT

PLANS PREPARED BY: HDR

VIRGINIA BEACH TRANSIT EXTENSION STUDY

NO.	REVISION DESCRIPTION	BY	DATE

DESIGN	SAB	DATE
DRWN	SAB	DATE
CKCK	KVL	DATE
APPR		DATE

BUS TRANSIT
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DRAFT

CONTRACT NO.

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VB-CV-1014

OF

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9/20/2013

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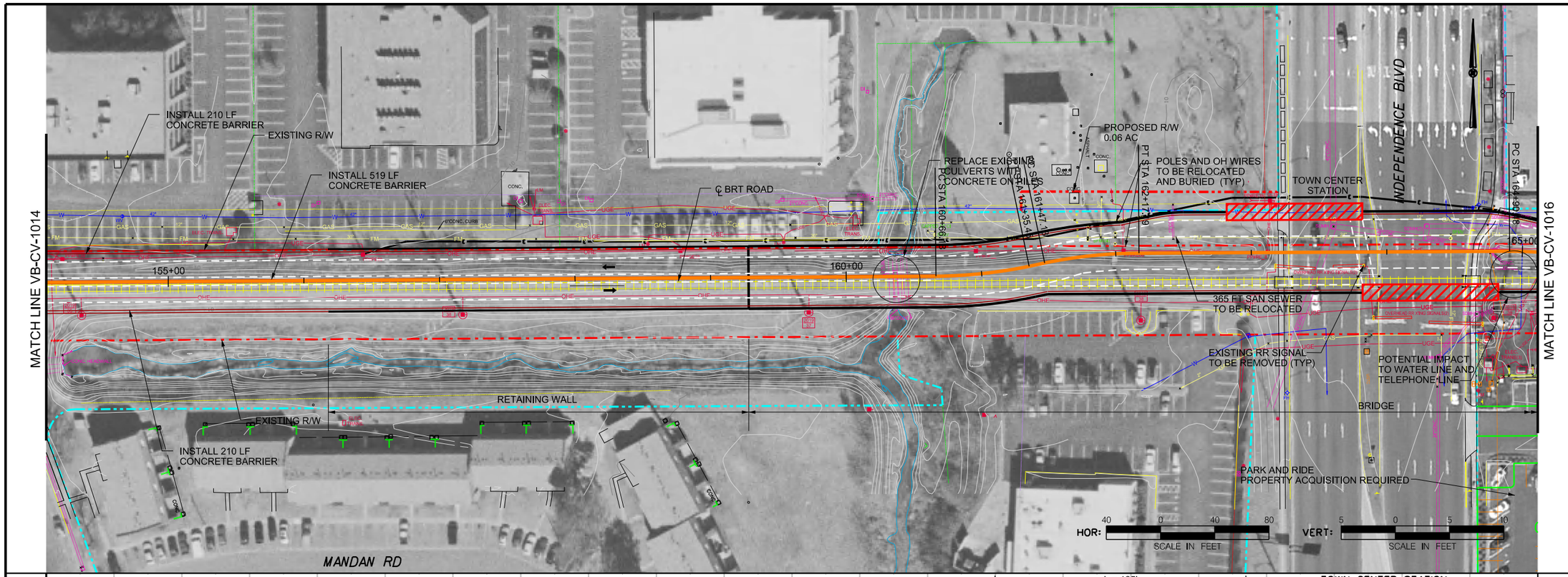

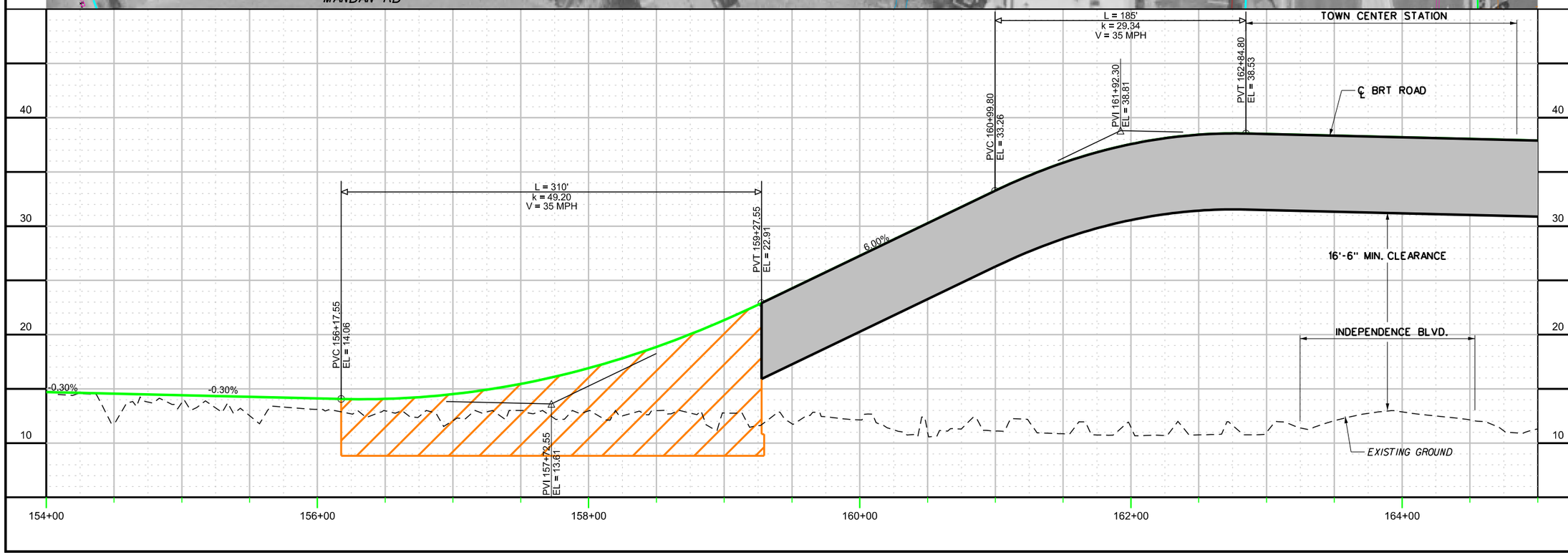

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DRAWING NO. VB-CV-1015

OF

BUS TRANSIT
PLAN / PROFILE
SHEET 15 OF 52

DRAFT

DESIGN	SAB	DATE	
DRAWN	SAB	DATE	
CHCK	KVL	DATE	
APPR		DATE	

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY: HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY

$TIME$

$DATE$

$FILE$

MATCH LINE VB-CV-1014

COLUMBUS ST

KISS AND RIDE AREA

CONCRETE BUS TURNAROUND

OPERATOR RELIEF STATION

CONC. SIDEWALK

INSTALL 387 LF CONCRETE BARRIER

EXISTING R/W

INSTALL 353 LF CONCRETE BARRIER

POLES AND OH WIRES TO BE RELOCATED AND BURIED (TYP)

REPLACE EXISTING CULVERTS WITH CONCRETE ON PILES

PEDESTRIAN WALKWAY OVER INDEPENDENCE BLVD.

STAIR TOWER WITH 2 ELEVATORS

INDEPENDENCE BLVD

℄ BRT ROAD

155+00

160+00

POE 160+04.12

CONC. SIDEWALK

PARK AND RIDE EAST OF INDEPENDENCE BLVD. PROPERTY ACQUISITION REQUIRED

TOWN CENTER STATION (WEST OF INDEPENDENCE OPTION)

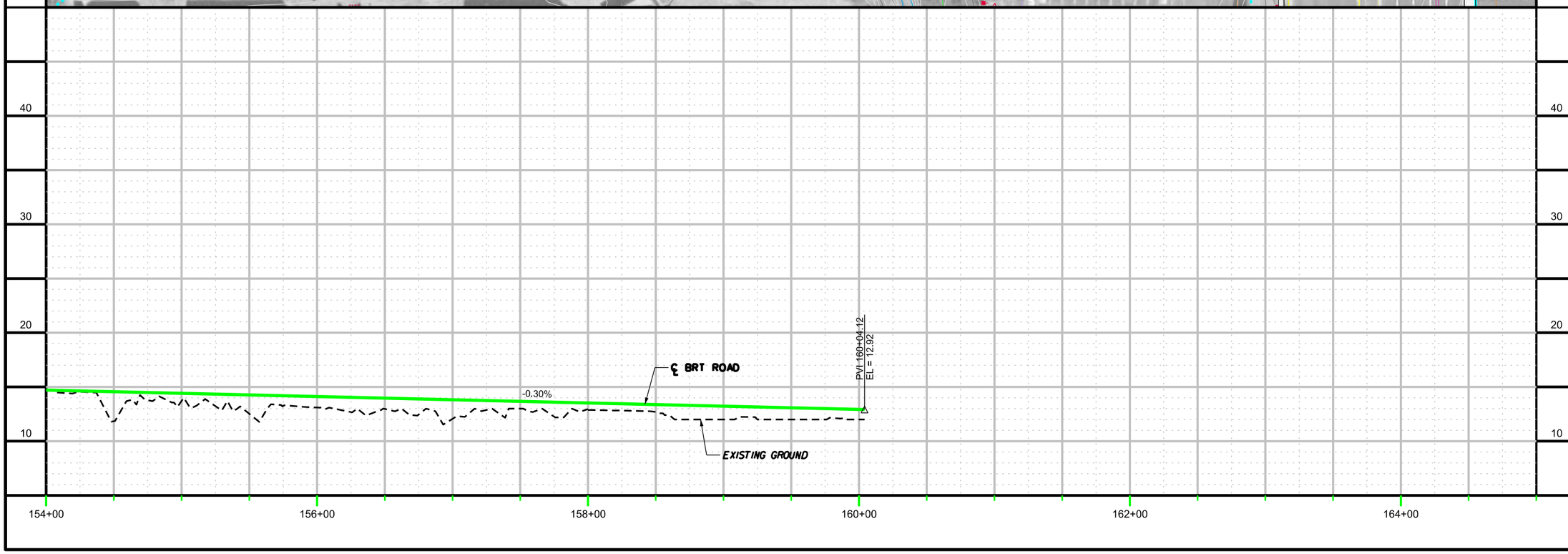
EXISTING RR SIGNAL TO BE REMOVED (TYP)

INSTALL 390 LF CONCRETE BARRIER

EXISTING R/W

HOR: 40 0 SCALE IN FEET

VERT: 5 0 5 10 SCALE IN FEET



CONTRACT NO.

DRAWING NO. VB-CV-1015A

OF

BUSWAY PLAN/PROFILE
TOWN CENTER ALT.
WEST OF INDEPENDENCE
STATION OPTION

DRAFT

DESIGN	DRAWN	CHCK	APPR	DATE
SAB	SAB	KVL		
DATE	DATE	DATE	DATE	

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY

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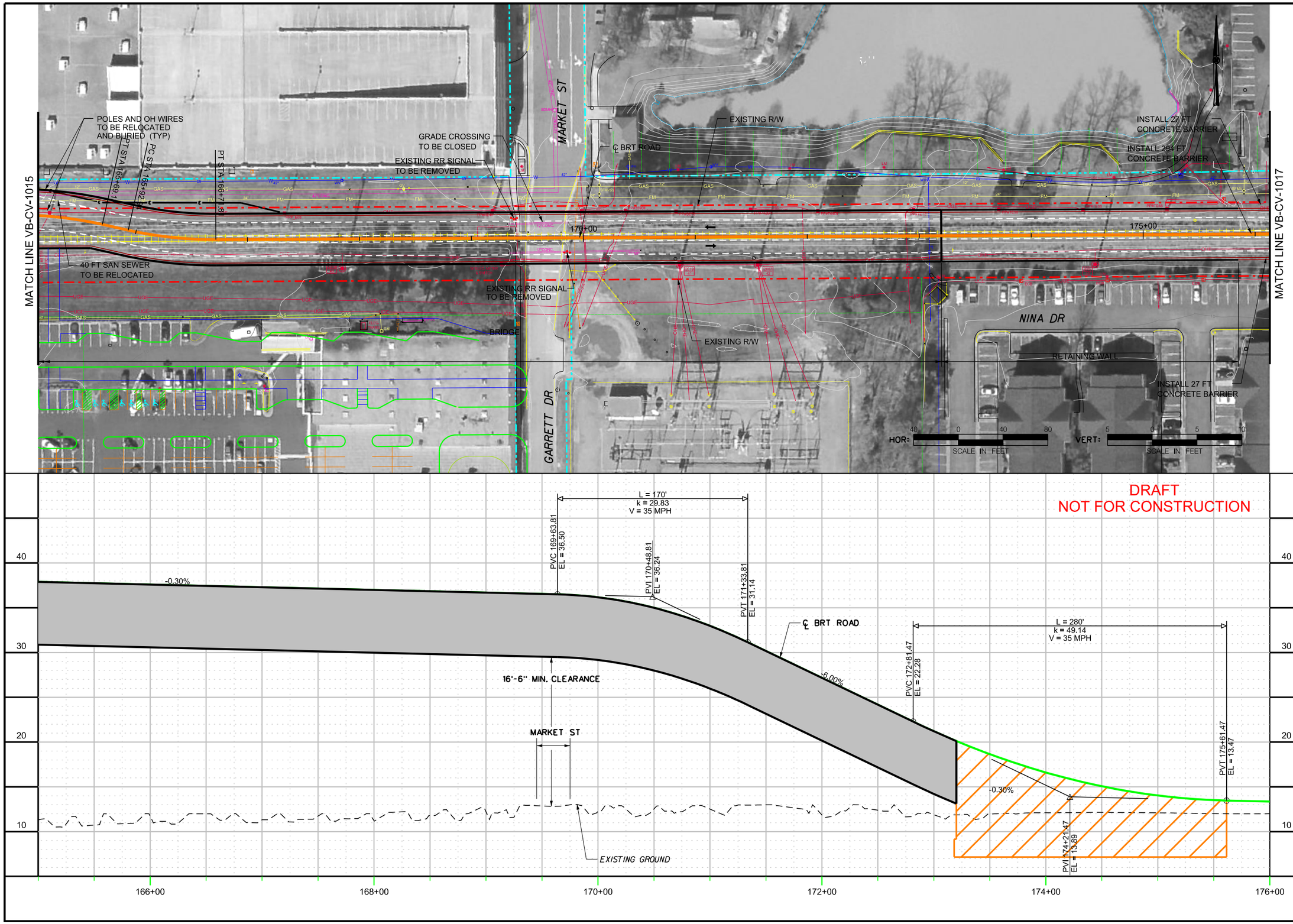

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	VB-CV-1016	

BUS TRANSIT
PLAN / PROFILE
SHEET 16 OF 52

DRAFT

	DATE	DATE	DATE	DATE
	SAB	SAB	CKCK	KVL
	DESIGN	DRWN	CKCK	APPR

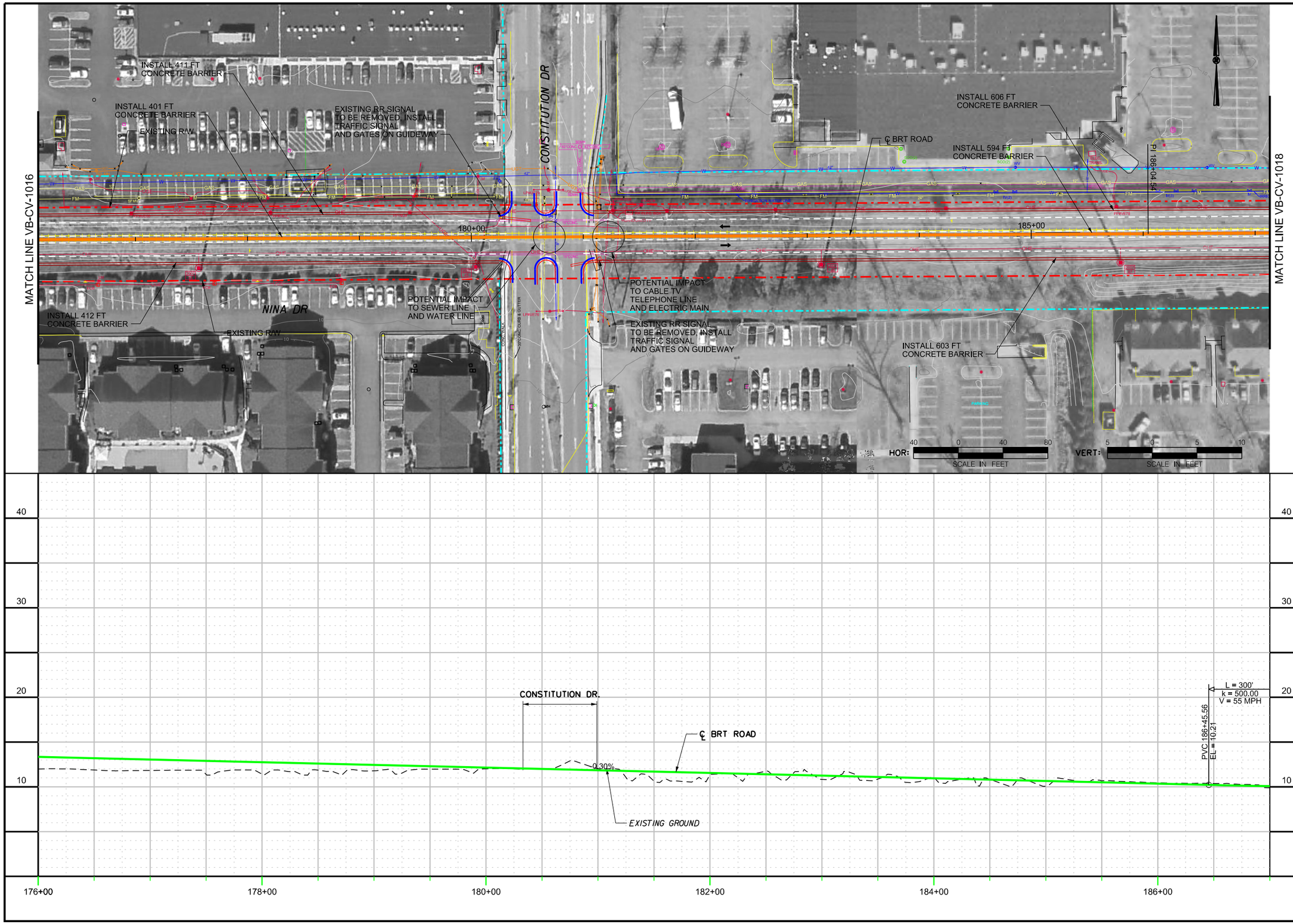
NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY



CONTRACT NO.

DRAWING NO. VB-CV-1017

OF

BUS TRANSIT
PLAN / PROFILE
SHEET 17 OF 52

DRAFT

NO.	REVISION DESCRIPTION	BY	DATE

APPR	CKCK	DRWN	DESIGN
KVL	SAB	SAB	SAB

DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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$TIME$

$DATE$

$FILE$

MATCH LINE VB-CV-1016

INSTALL 411 FT CONCRETE BARRIER

INSTALL 401 FT CONCRETE BARRIER

EXISTING R/W

EXISTING RR SIGNAL TO BE REMOVED, INSTALL TRAFFIC SIGNAL AND GATES ON GUIDEWAY

CONSTITUTION DR

POT 180+10.00

EASTBOUND BRT VEHICLES AT END OF LINE TO TURN AROUND USING EXISTING STREETS, THEN RETURN TO BRT GUIDEWAY FOR WESTBOUND TRIP.

(SEE SHEET VB-CV-1015 FOR STATION LOCATION)

180+00

℄ BRT ROAD

NINA DR

POTENTIAL IMPACT TO SEWER LINE AND WATER LINE

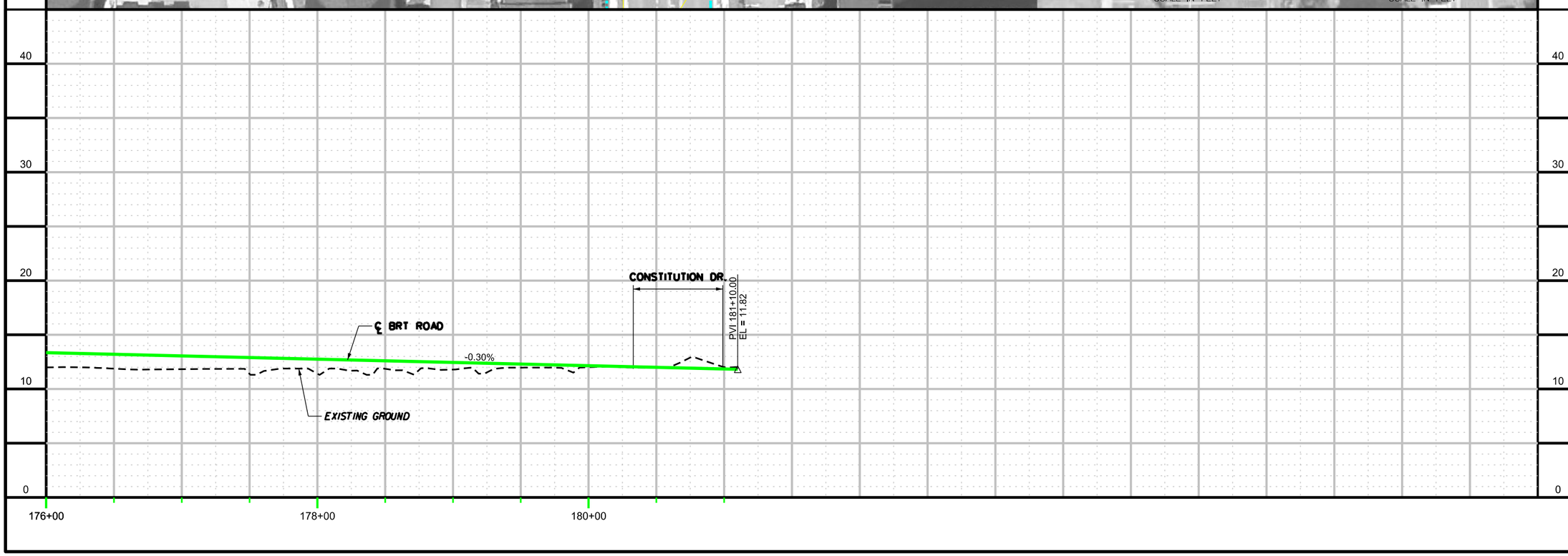
INSTALL 412 FT CONCRETE BARRIER

EXISTING R/W

EXISTING RR SIGNAL TO BE REMOVED

HOR: 40 0 40 80 SCALE IN FEET

VERT: 5 0 5 10 SCALE IN FEET



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DRAWING NO. VB-CV-1017A

OF

BUSWAY PLAN/PROFILE
TOWN CENTER ALT.
EAST OF INDEPENDENCE
STATION OPTION

DRAFT

DESIGN	SAB	DATE	
DRAWN	SAB	DATE	
CHCK	KVL	DATE	
APPR		DATE	

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY

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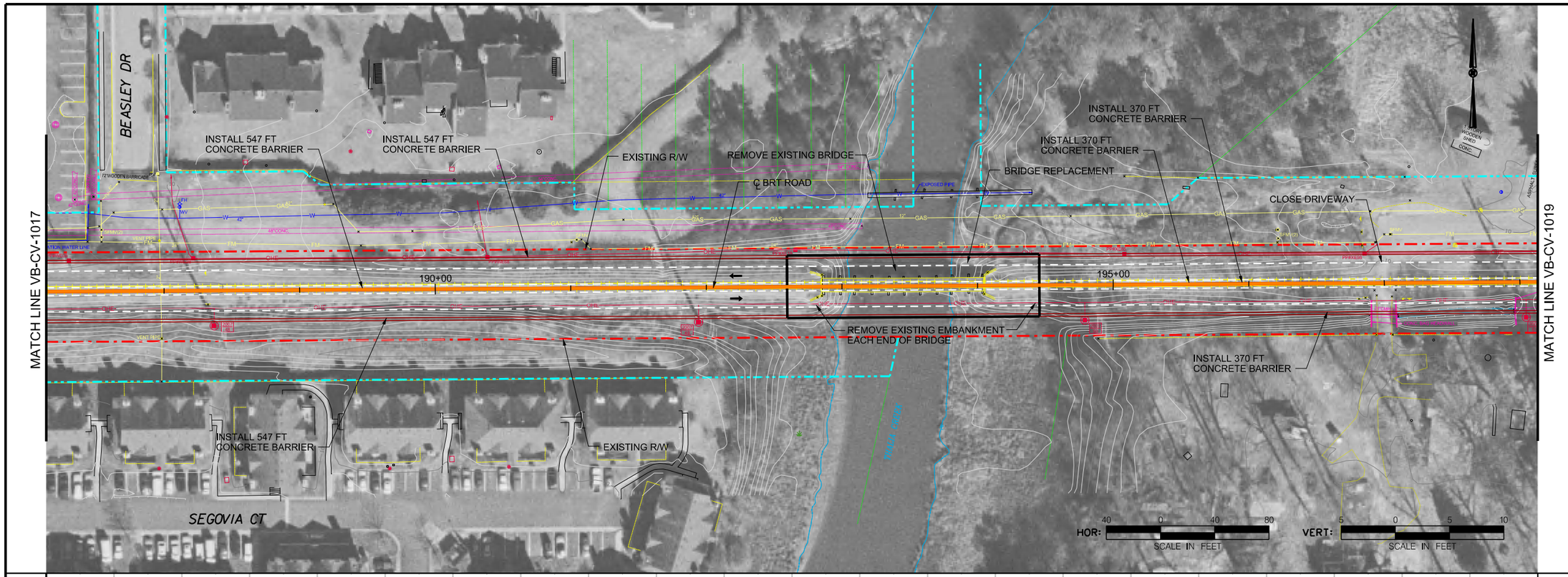

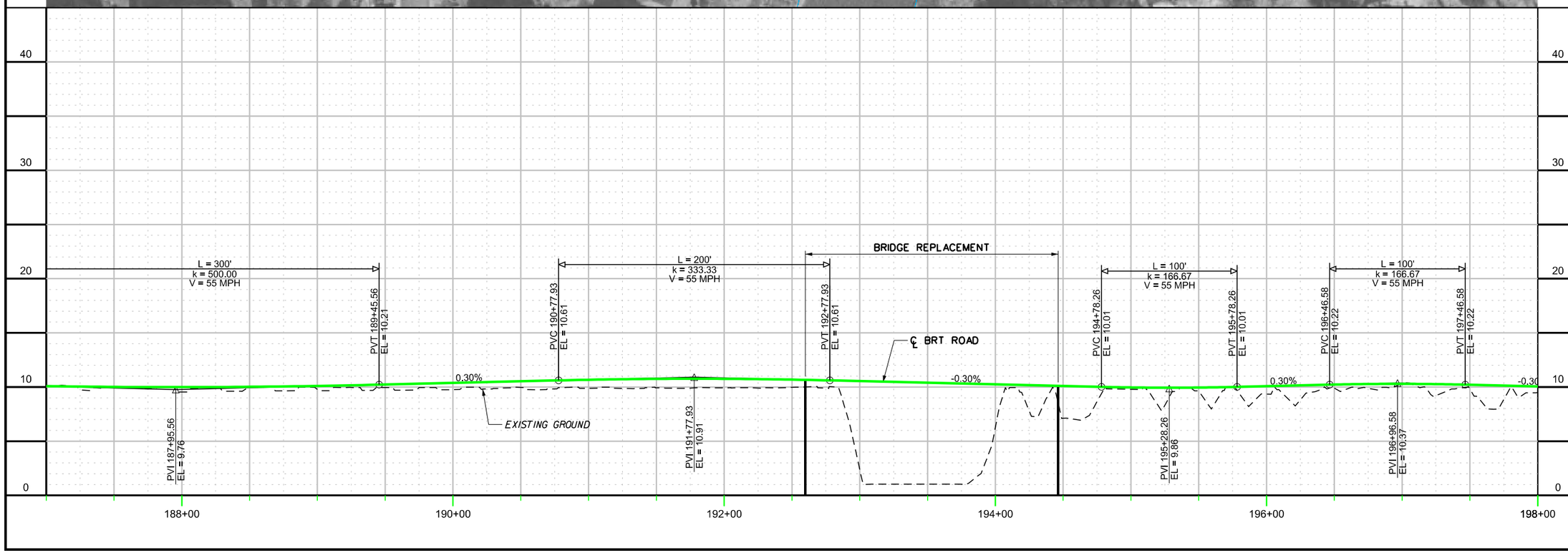

CONTRACT NO.

DRAWING NO. VB-CV-1018

OF

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SHEET 18 OF 52

DRAFT

APPR	DATE
CKCK KVL	DATE
DRWN SAB	DATE
DESIGN SAB	DATE

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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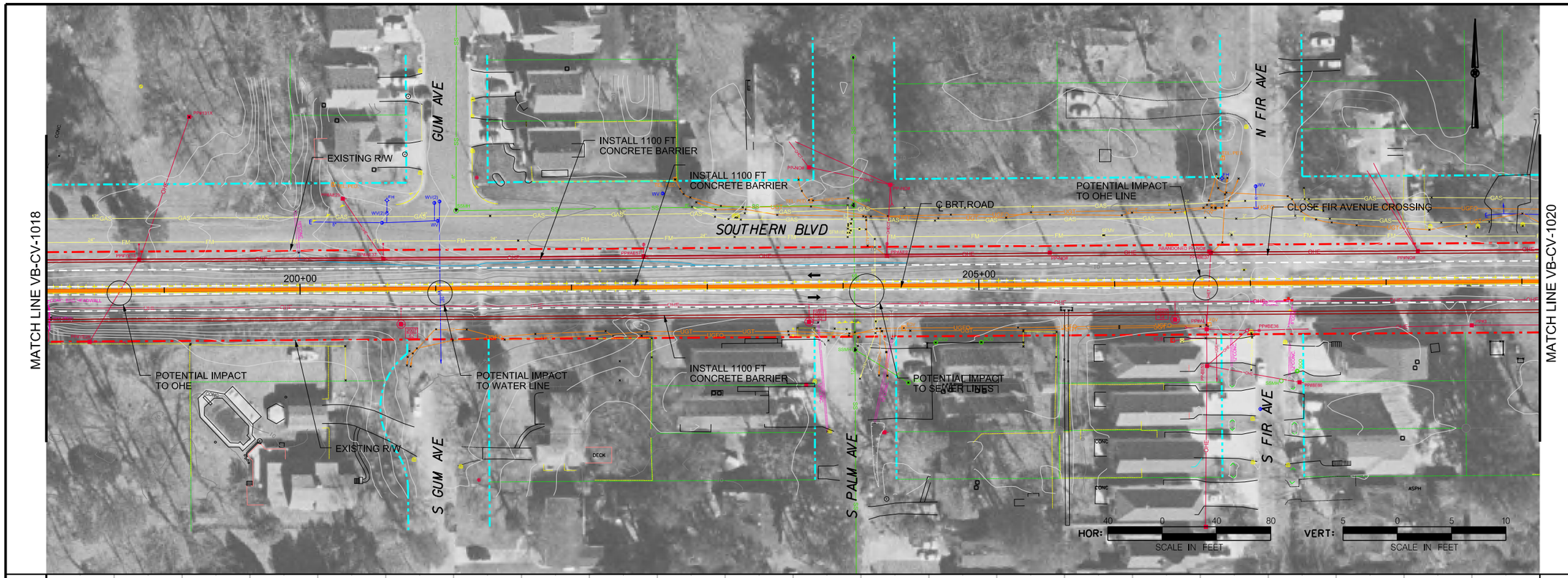

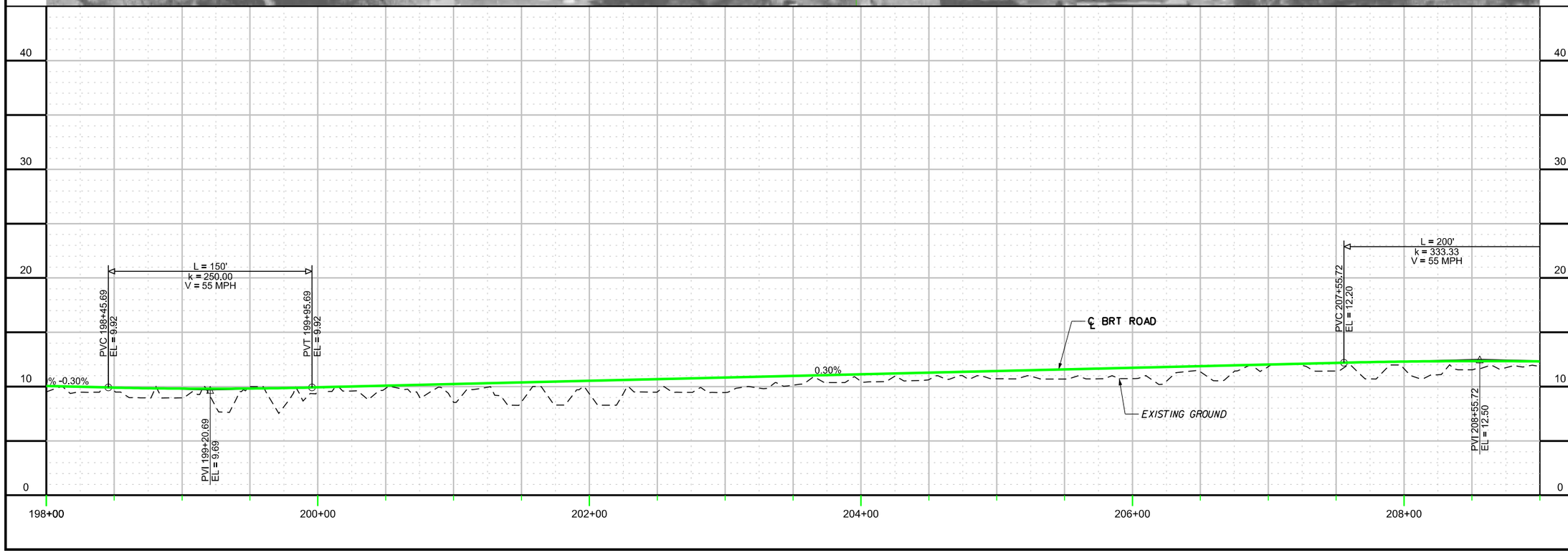

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SHEET 19 OF 52

DRAFT

APPR	DATE
SAB DESIGN	DATE
SAB DRWN	DATE
KVL CKCK	DATE

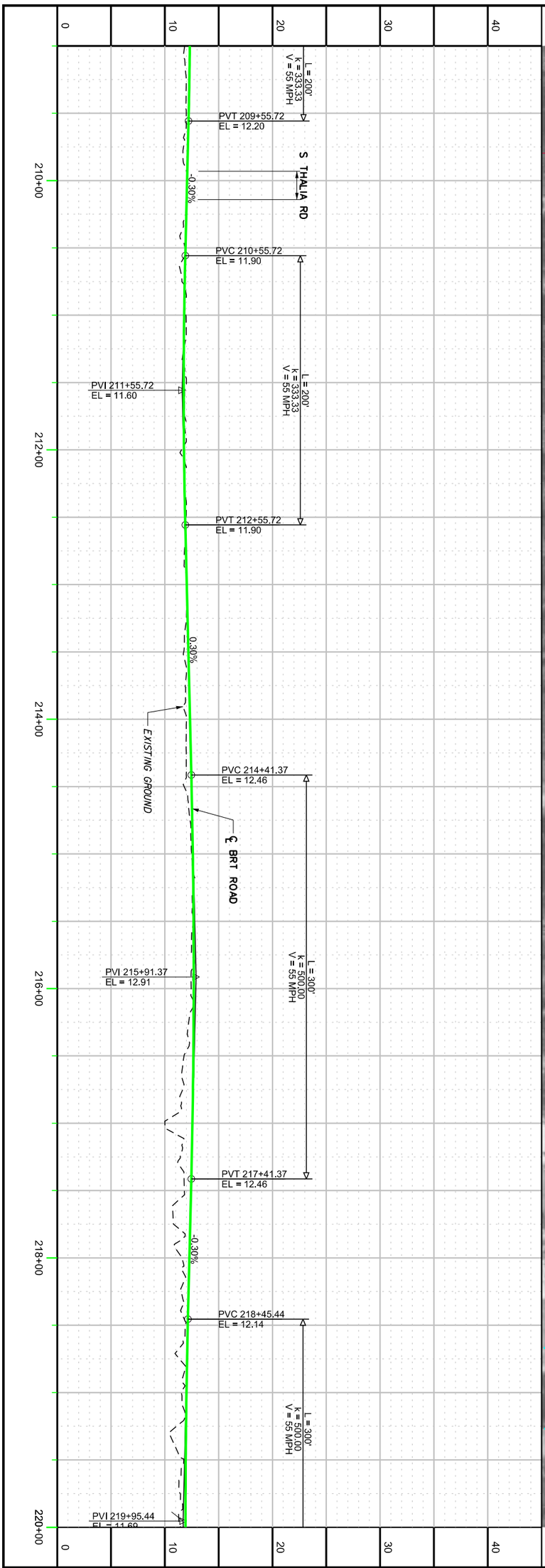
NO.	REVISION DESCRIPTION	BY	DATE

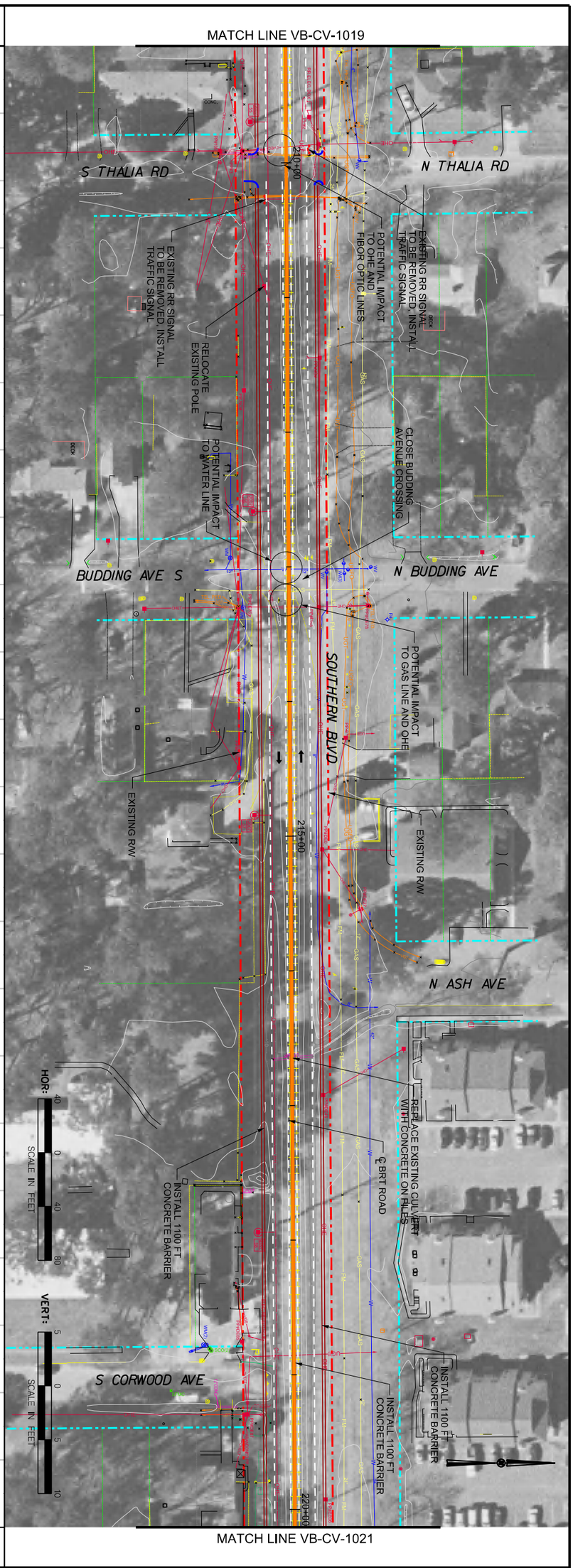
PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY





HAMPTON ROADS TRANSIT

PLANS PREPARED BY: HDR

VIRGINIA BEACH TRANSIT EXTENSION STUDY

NO.	REVISION DESCRIPTION	BY	DATE

DESIGN	SAB	DATE
DRWN	SAB	DATE
CKCK	KVL	DATE
APPR		DATE

BUS TRANSIT
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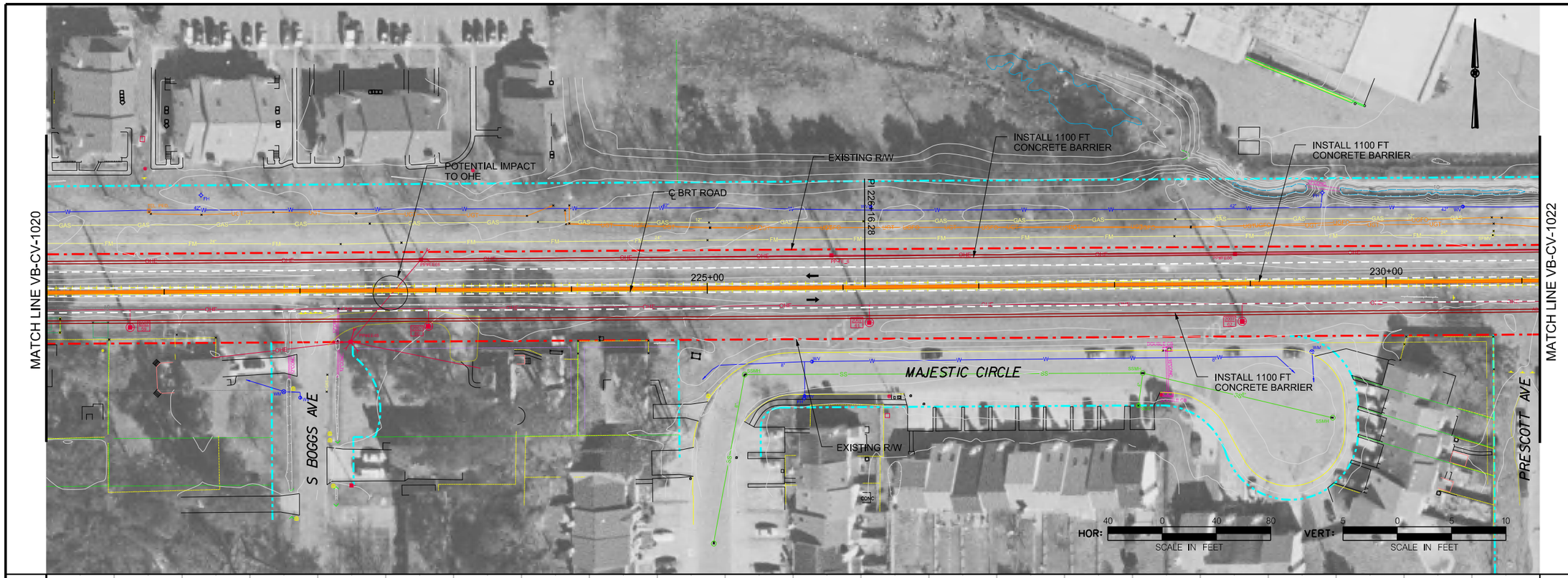
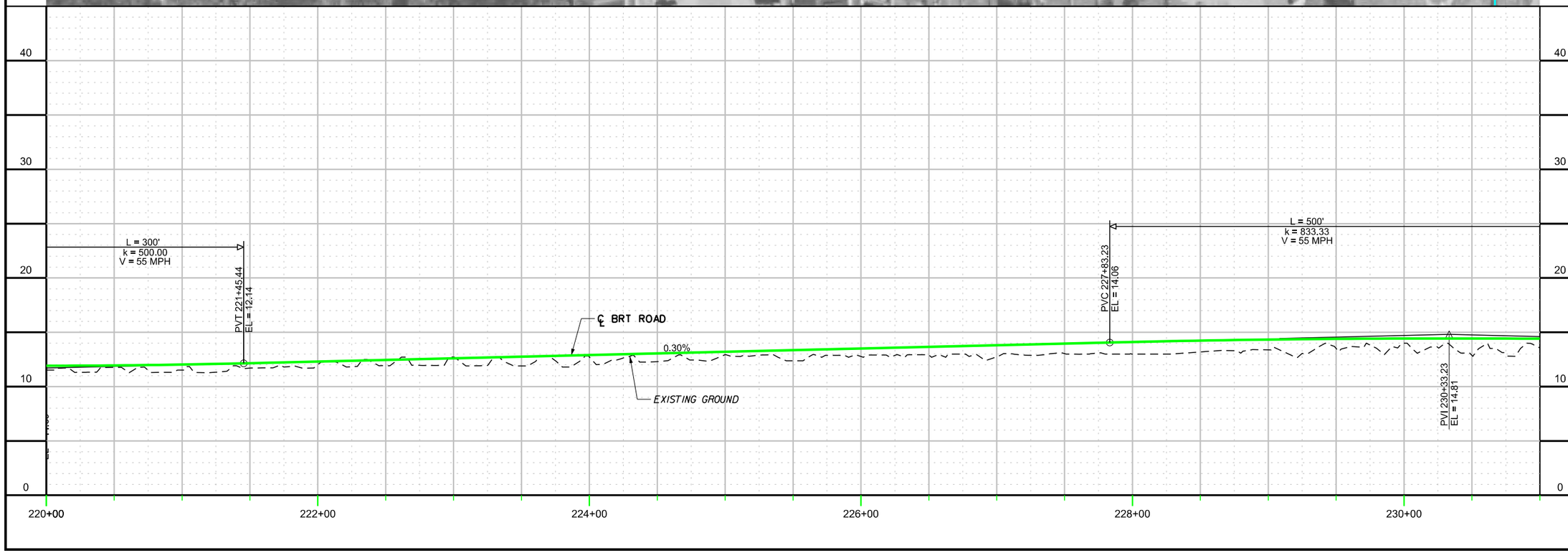
VB-CV-1020

OF





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OF

BUS TRANSIT
PLAN / PROFILE
SHEET 21 OF 52

DRAFT

APPR	DATE
CKCK KVL	DATE
DRWN SAB	DATE
DESIGN SAB	DATE

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:
HDR
HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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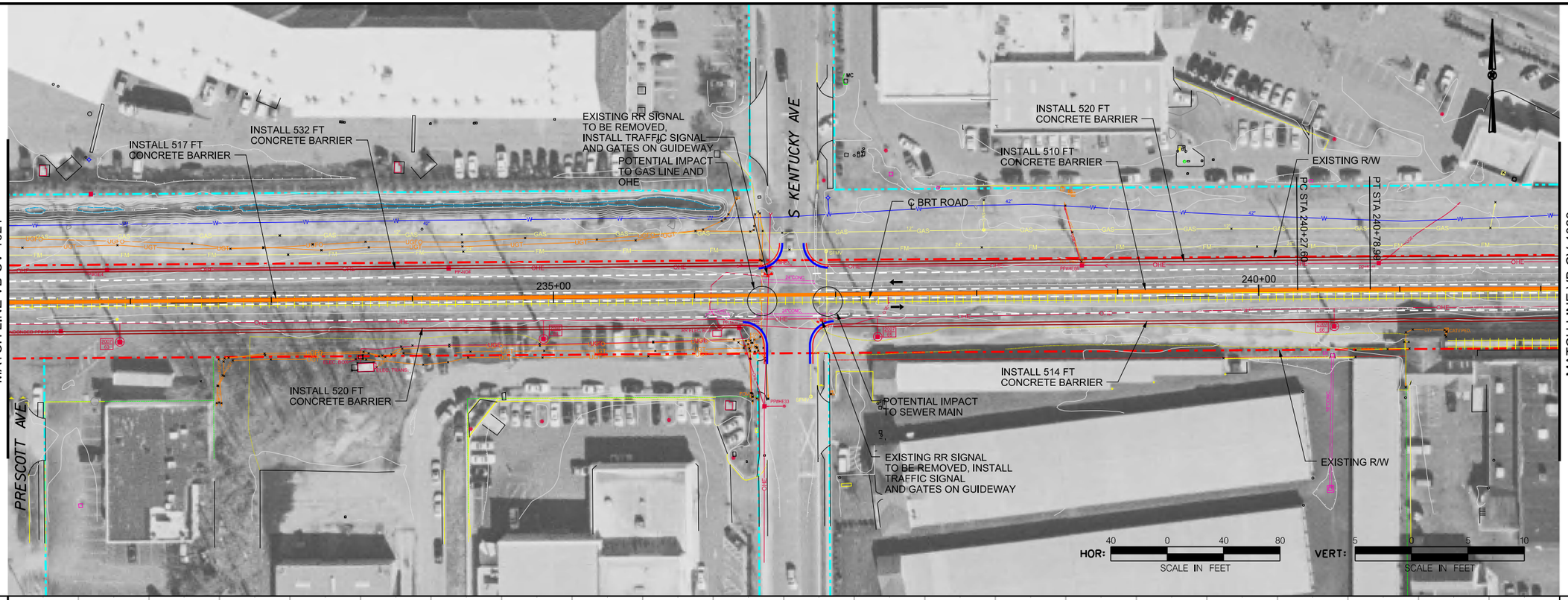

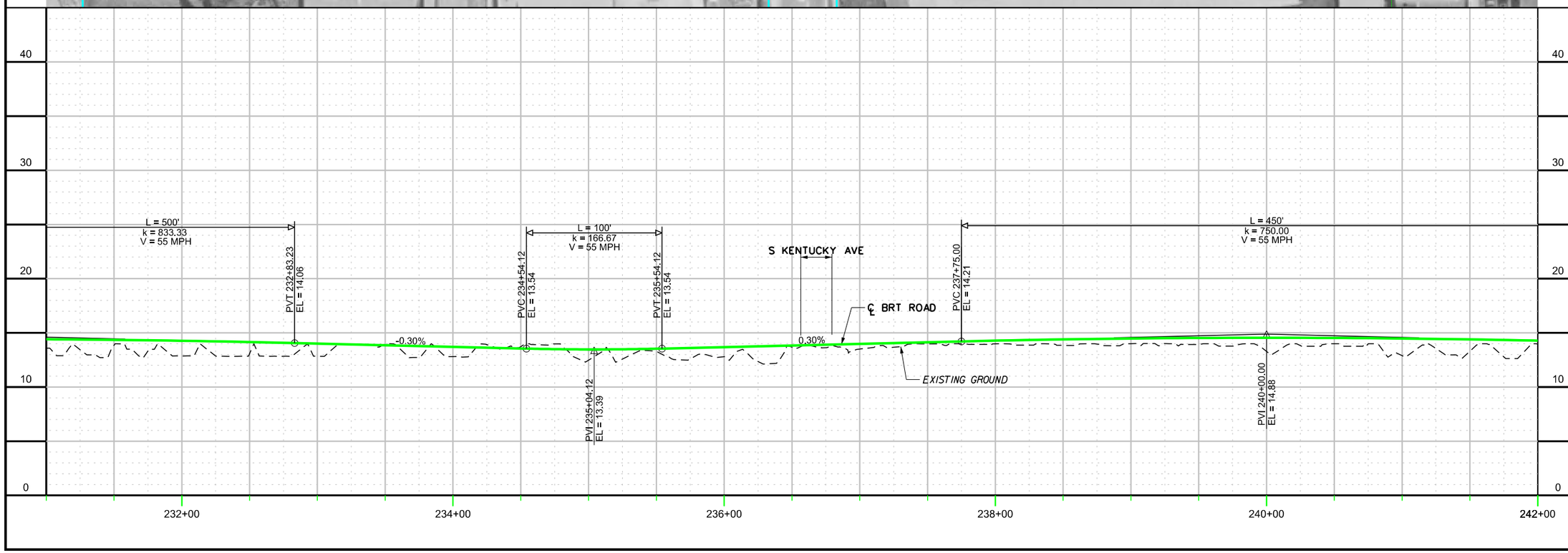

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	VB-CV-1022	

BUS TRANSIT
PLAN / PROFILE
SHEET 22 OF 52

DRAFT

APPR	DATE	DESIGN	SAB	DATE
CKCK	KVL	DRWN	SAB	DATE

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY

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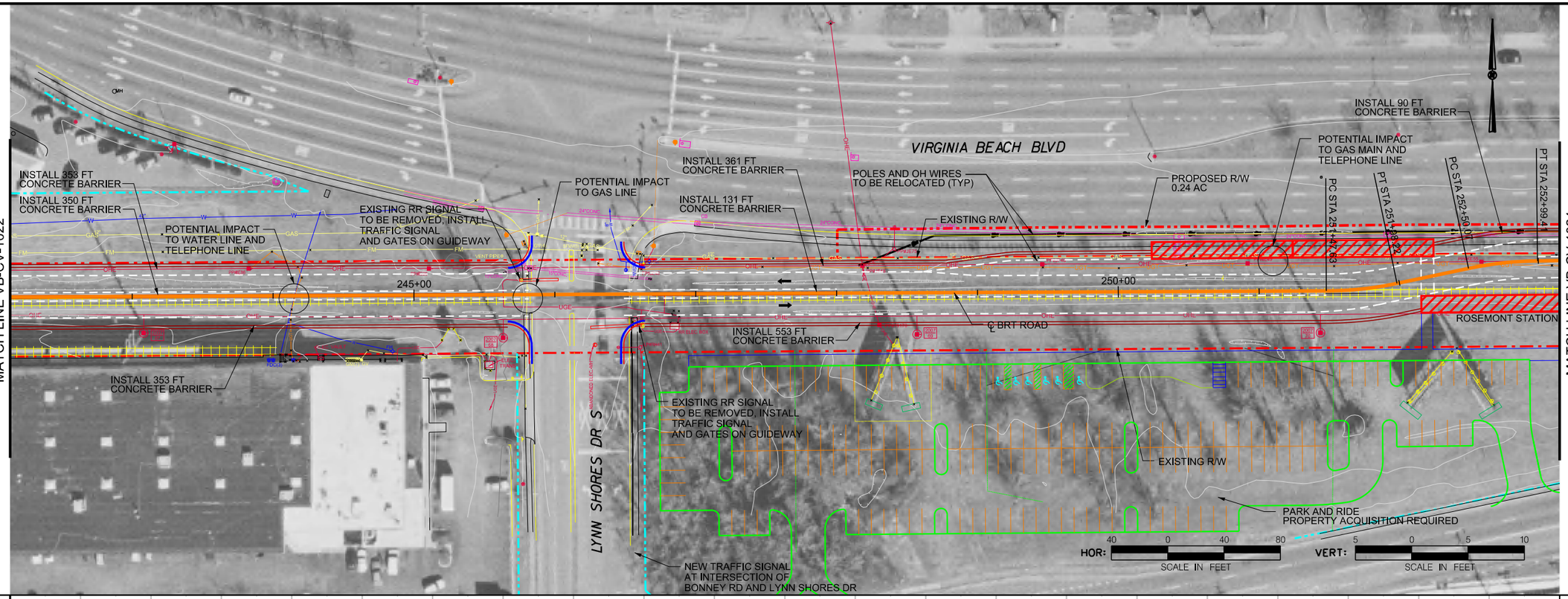

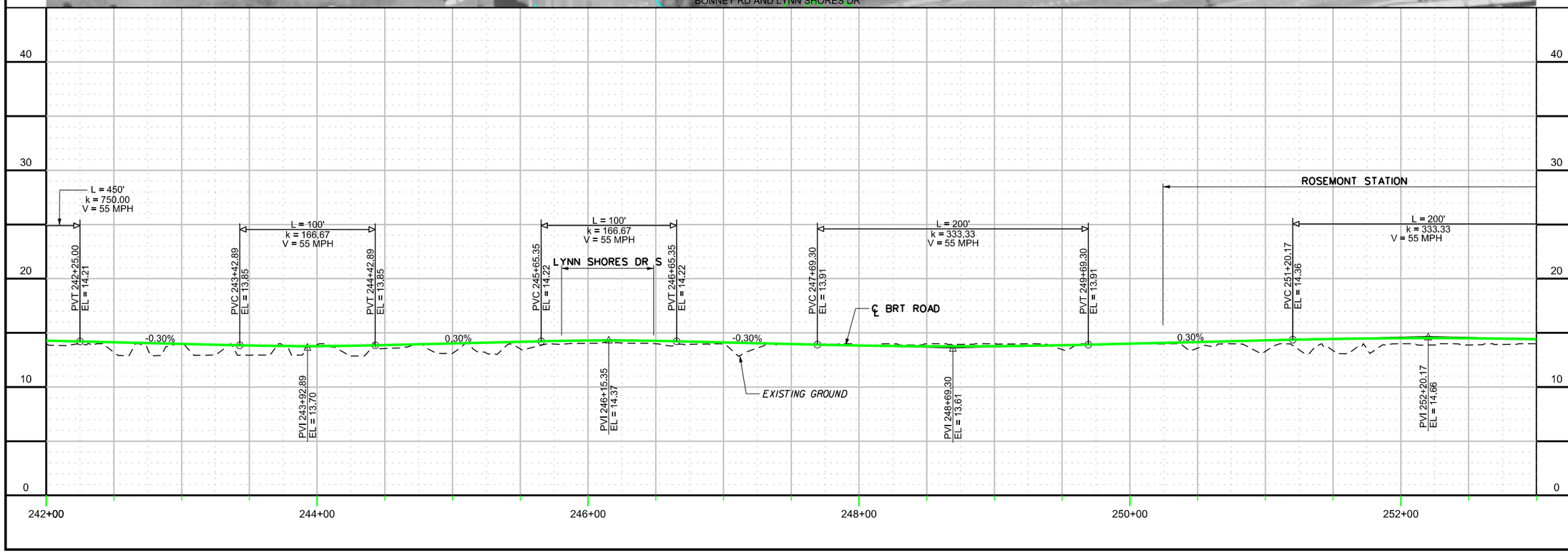

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OF

BUS TRANSIT
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DRAFT

APPR.	DATE	CHCK.	DATE	DRWN.	DATE	DESIGN	DATE
		KVL		SAB		SAB	

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

HDR

HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY