HAMPTON ROADS TRANSIT

U.S. Department of Transportation
Federal Transit Administration

Draft Environmental Impact Statement

VIRGINIA BEACH TRANSIT EXTENSION STUDY

Appendix G-4

Draft Conceptual Drawings

Bus Rapid Transit

Alternative 3 (Hilltop)

London Bridge Creek to the Proposed Oceanfront Station

February 2015

Cover image: courtesy of the City of Virginia Beach

DRAWING NUMBER	DRAWING TITLE
GENERAL DRAWINGS	
VB-COVER	COVER SHEET
VB-IN-3002	INDEX OF DRAWINGS
VB-GP-3003	HILLTOP ALTERNATIVE BRT SHEET LAYOUT PLAN
BRT GUIDEWAY DRAWINGS	
VB-CV-3101	HILLTOP ALTERNATIVE BRT TYPICAL SECTIONS - SHEET 1 OF 2
VB-CV-3102	HILLTOP ALTERNATIVE BRT TYPICAL SECTIONS - SHEET 2 OF 2
VB-CV-3001	HILLTOP ALTERNATIVE BRT - NSRR TO PARKER LANE
VB-CV-3007	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 1
VB-CV-3008	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 2
VB-CV-3009	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 3
VB-CV-3010	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 4
VB-CV-3011	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 5
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VB-CV-3013	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 7
VB-CV-3014	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 8
VB-CV-3015	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 9
VB-CV-3016	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 10
VB-CV-3017	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 11
VB-CV-3018	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 12
VB-CV-3019	HILLTOP ALTERNATIVE BRT - LASKIN ROAD GUIDEWAY SHEET 13

GENERAL NOTES

1. EXISTING UTILITIES ARE BASED ON SURVEY PROVIDED BY THE CITY OF VIRGINIA BEACH AND DESIGN DRAWINGS PROVIDED BY UTILITY AGENCIES, WITH SUPPLEMENTAL SURVEY COLLECTED FOR THIS PROJECT.
2. EXISTING RIGHT-OF-WAY LINES ARE BASED ON SURVEY PROVIDED BY THE CITY OF VIRGINIA BEACH AND SUPPLEMENTAL SURVEY COLLECTED FOR THIS PROJECT.

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CONTRACT NO.
DRAWING NO. VB-IN-3002
OF

INDEX OF DRAWINGS

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DATE	DATE	DATE	DATE

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY

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HAMPTON ROADS TRANSIT	PLANS PREPARED BY: HDR				DESIGN	CEC	DATE	HILLTOP ALTERNATIVE BUS RAPID TRANSIT	CONTRACT NO.
					DRWN	CEC	DATE	SHEET LAYOUT PLAN	DRAWING NO. VB-GP-3003
VIRGINIA BEACH TRANSIT EXTENSION STUDY					CKDK	KVL	DATE		
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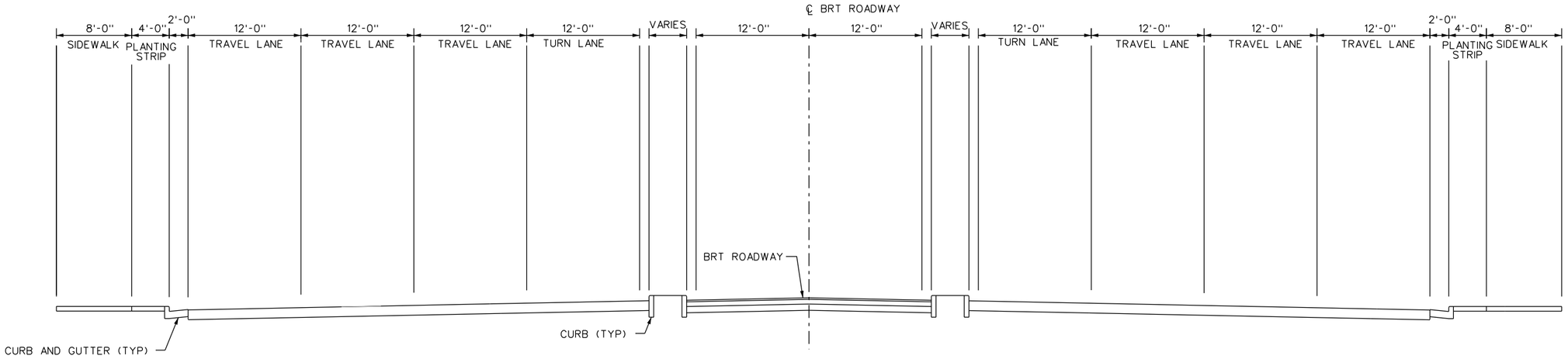

BUS RAPID TRANSIT TYPICAL SECTION

LASKIN ROAD

CENTER GUIDEWAY, SIX TRAVEL LANES WITH TURN LANES

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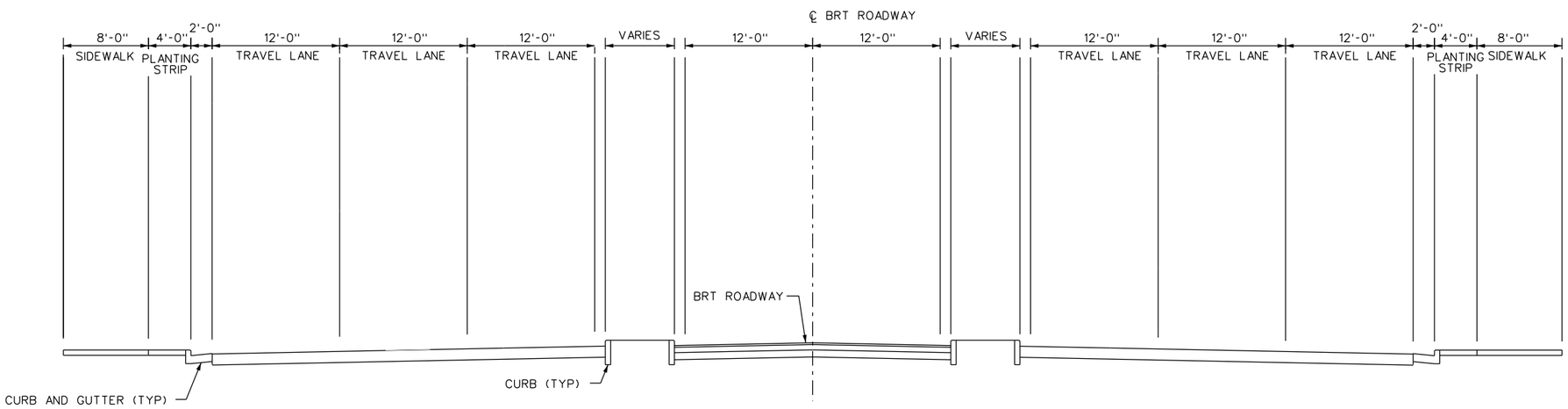

BUS RAPID TRANSIT TYPICAL SECTION

LASKIN ROAD

CENTER GUIDEWAY WITH SIX TRAVEL LANES

5 0 5 10
SCALE IN FEET

CONTRACT NO.

DRAWING NO. VB-CV-3101

OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
TYPICAL SECTIONS

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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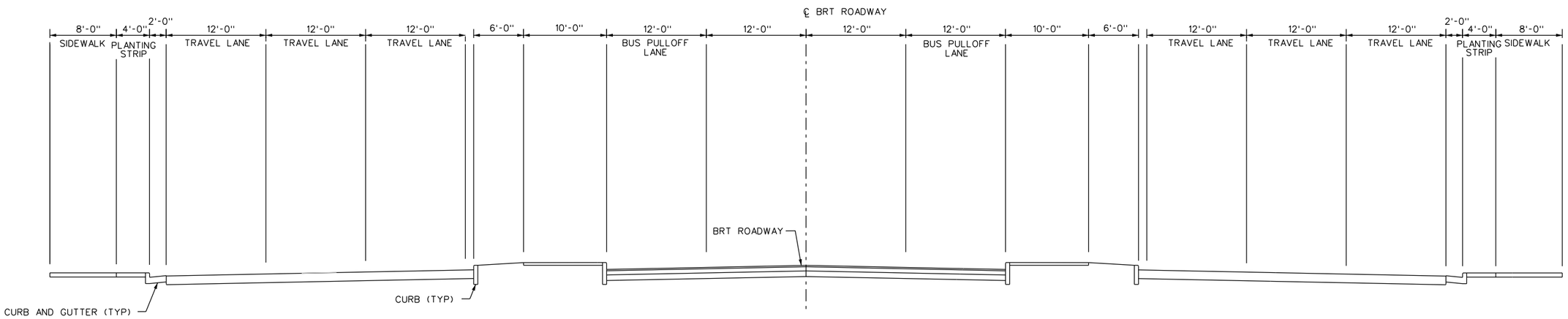

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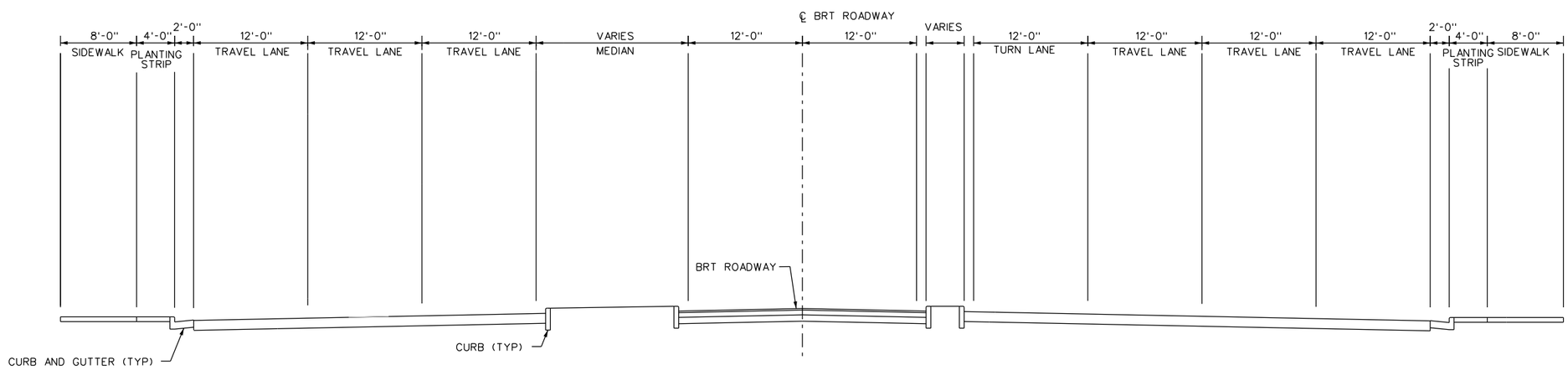
BUS RAPID TRANSIT TYPICAL SECTION

LASKIN ROAD

CENTER GUIDEWAY AT STATION



BUS RAPID TRANSIT TYPICAL SECTION

LASKIN ROAD

CENTER GUIDEWAY WITH TURN LANE

5 0 5 10
SCALE IN FEET

CONTRACT NO.

DRAWING NO. VB-CV-3102

OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
TYPICAL SECTIONS

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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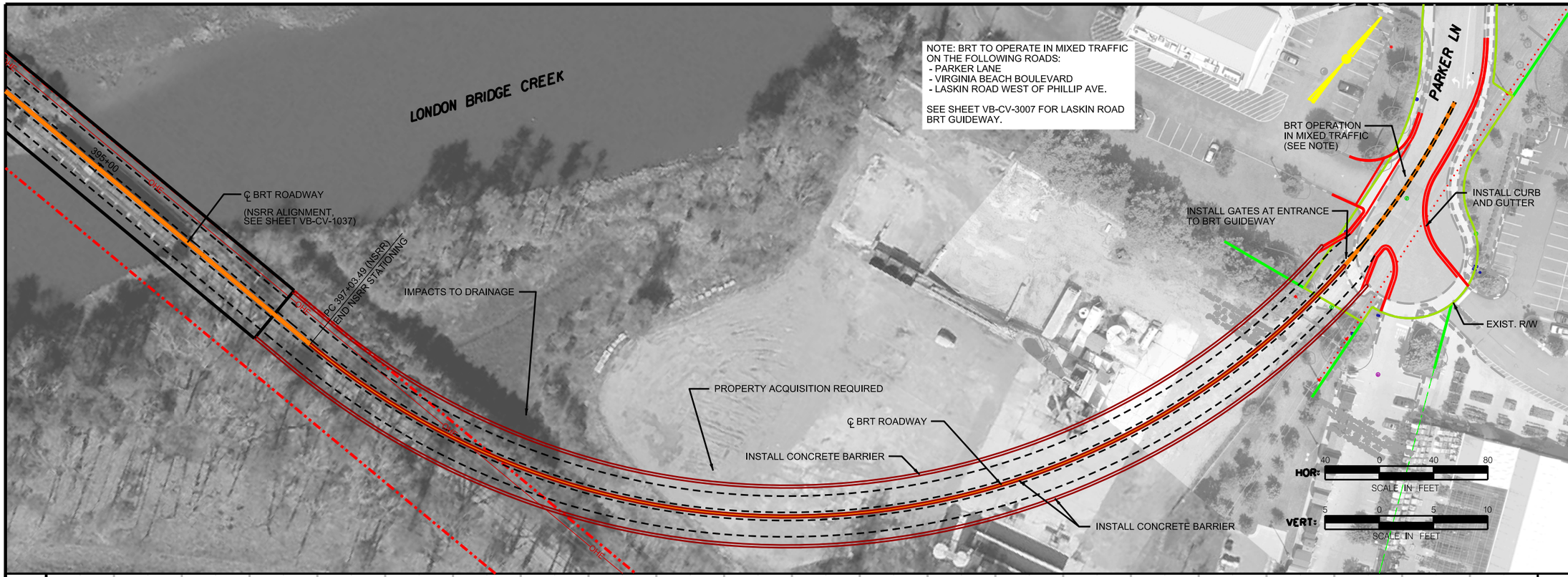

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DRAWING NO. VB-CV-3001

OF

HILLTOP ALTERNATIVE BUS RAPID TRANSIT

NSRR-PARKER LANE

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KVL	CEC	CEC	CEC

DATE DATE DATE DATE

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT EXTENSION STUDY

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NOTE: BRT TO OPERATE IN MIXED TRAFFIC ON THE FOLLOWING ROADS:
- PARKER LANE
- VIRGINIA BEACH BOULEVARD
- LASKIN ROAD WEST OF PHILLIP AVENUE

SEE SHEET VB-CV-3001 FOR BRT GUIDEWAY CONNECTION TO NSRR RIGHT OF WAY

LASKIN RD WB

LASKIN RD EB

SAWYER LN

PHILLIP AVE

BRT TRANSITION TO MIXED TRAFFIC WB LASKIN ROAD SEE NOTE

BRT ENTRANCE TO EXCLUSIVE GUIDEWAY FROM EB LASKIN ROAD SEE NOTE

INSTALL CURB

INSTALL CURB AND GUTTER

RECONFIGURE DRIVEWAY ACCESS

CLOSE DRIVEWAY RECONFIGURE ACCESS TO PROPERTY VIA PHILLIP AVE.

EXIST. R/W

MAINTAIN TWO WAY TRAFFIC ON SERVICE ROAD

INSTALL CURB AND GUTTER

INSTALL CURB

℄ BRT ROADWAY

INSTALL NEW TRAFFIC SIGNAL

INSTALL CURB AND GUTTER

MATCH LINE VB-CV-3103

1000+00

POB 1000+00.00

HOR: 40 0 40 80 SCALE IN FEET

VERT: 5 0 5 10 SCALE IN FEET

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40
30
20
10
0

L = 100'
k = 1785.10

PVC 1001+36.67
EL = 13.75

PVT 1002+36.67
EL = 14.18

PVI 1001+86.67
EL = 13.98

0.45%

0.39%

L = 100'
k = 400.98

PVC 1003+49.57
EL = 14.62

PVT 1004+49.57
EL = 15.14

PVI 1003+99.57
EL = 14.82

1000+00

1002+00

1004+00

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CONTRACT NO.	DRAWING NO.	OF
	VB-CV-3007	

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

$TIME$

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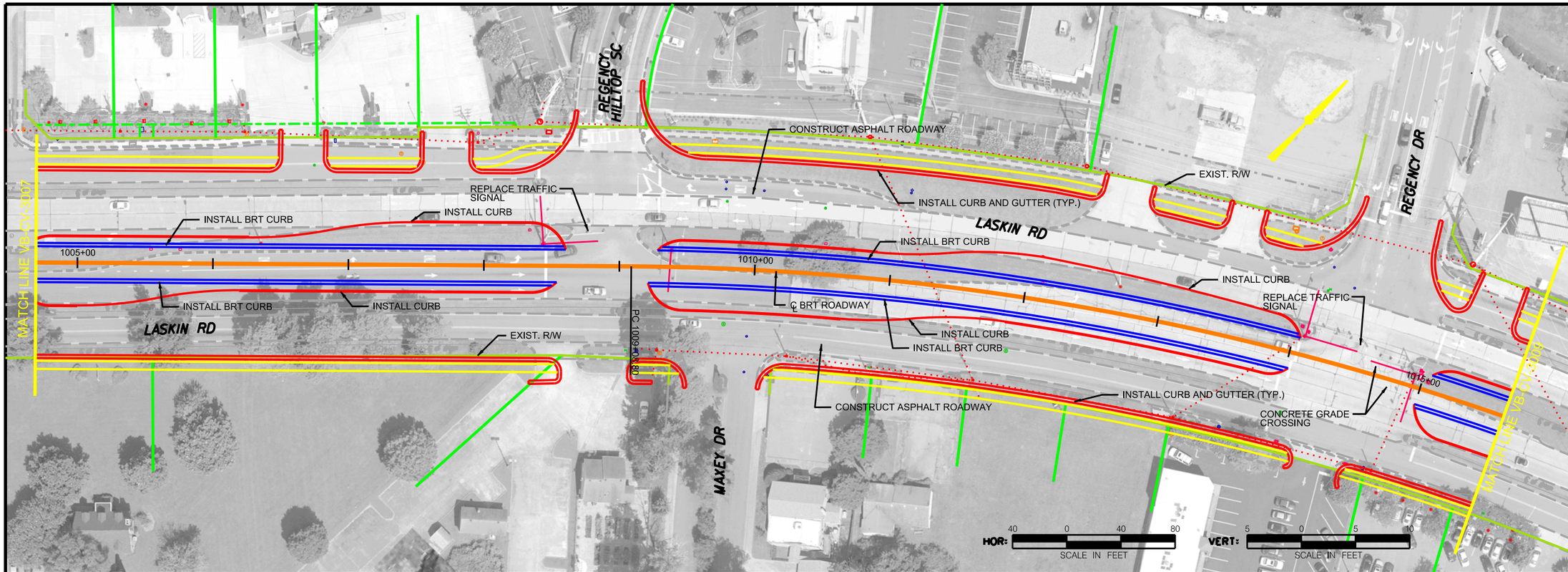

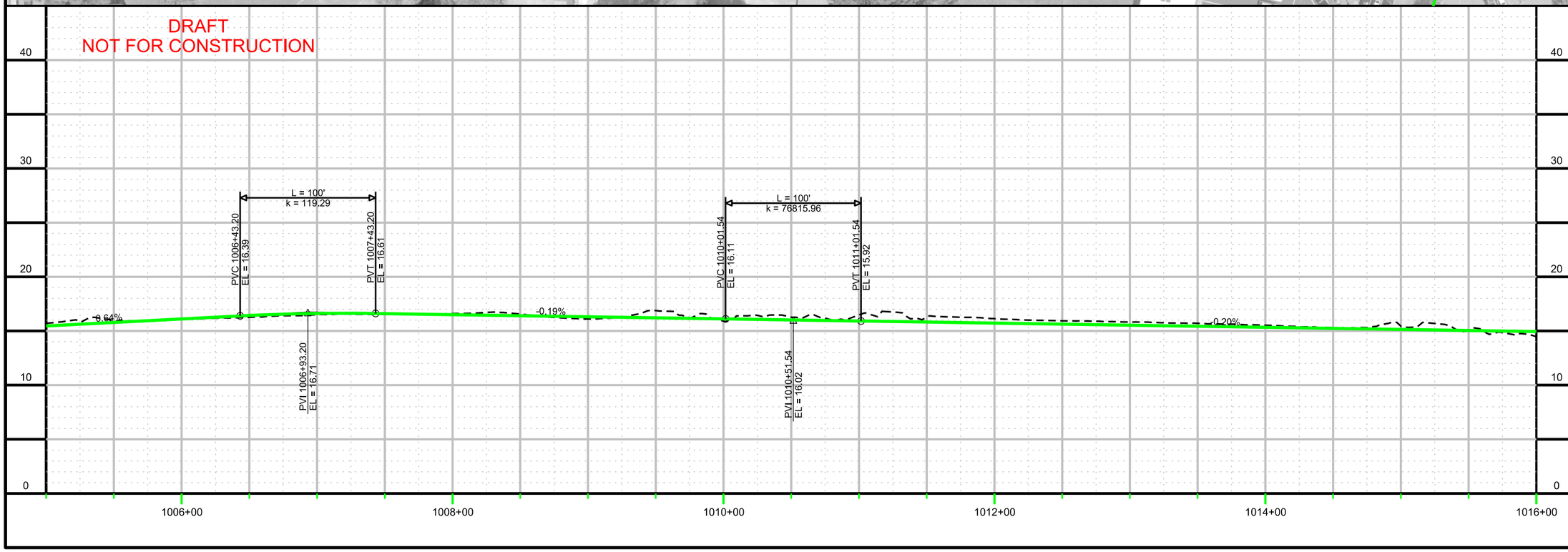

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	VB-CV-3008	

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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DESIGN	DRAWN	CHCK	APPR
CEC	CEC	KVL	
DATE	DATE	DATE	DATE

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:
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VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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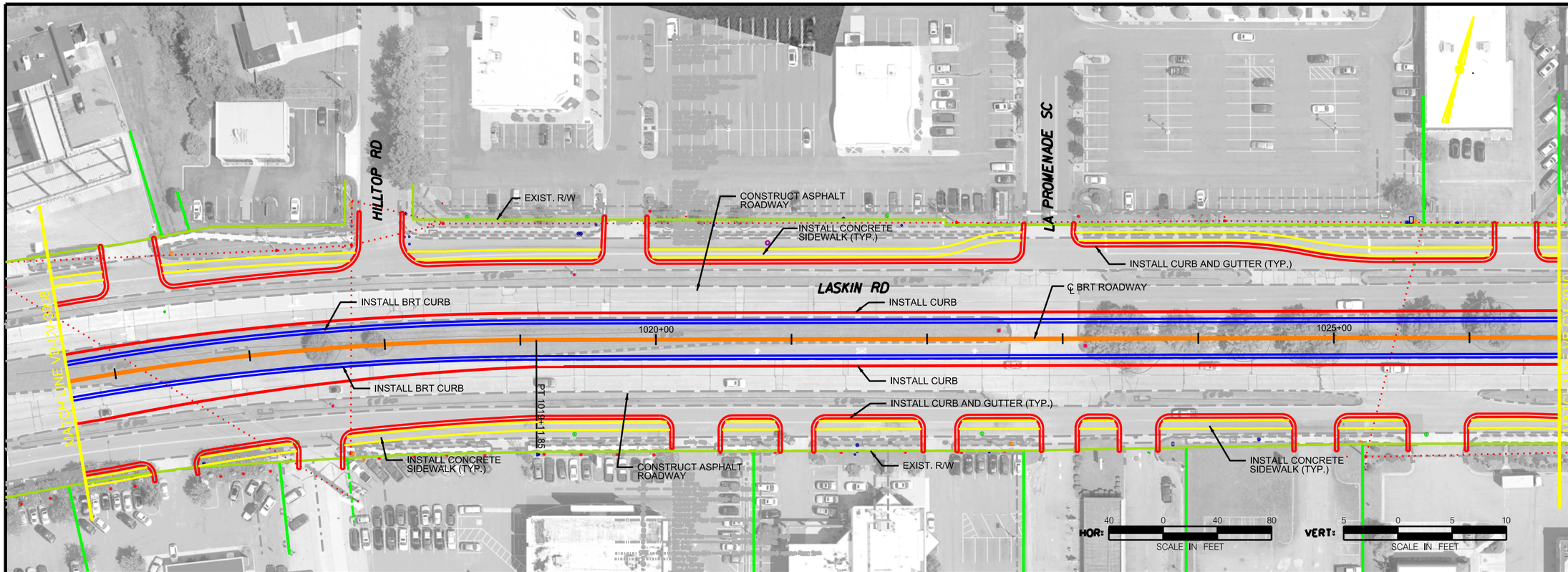

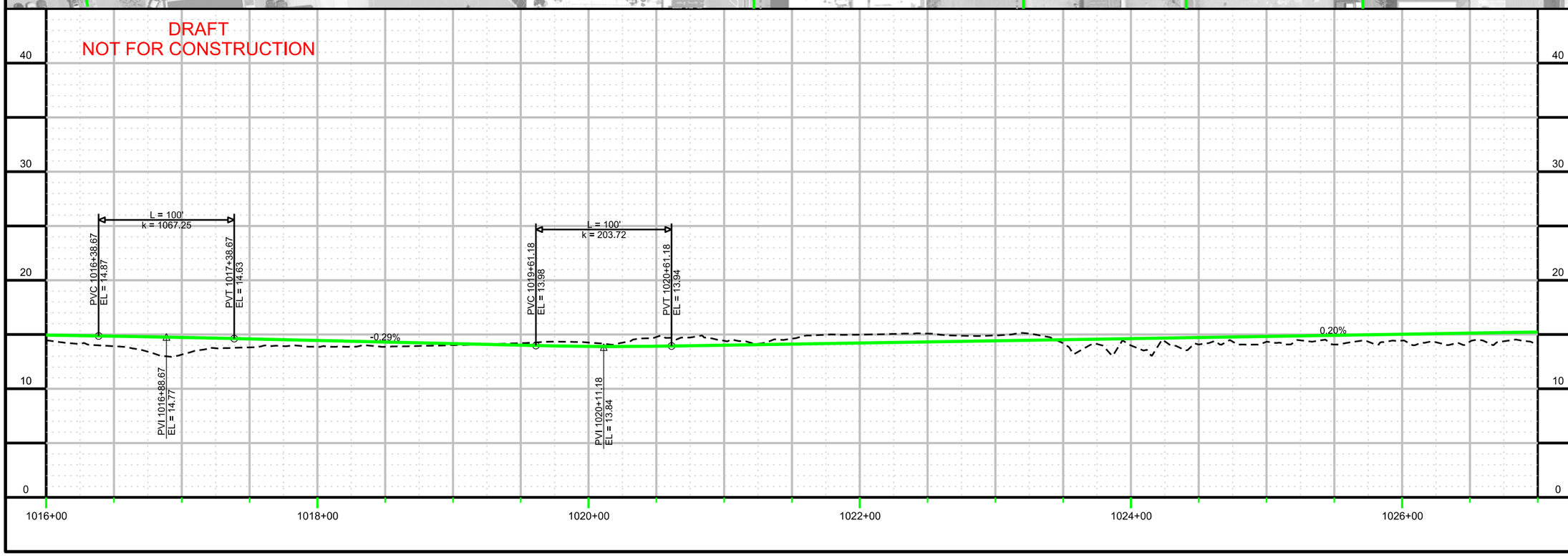

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OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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DATE	DATE	DATE	DATE

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VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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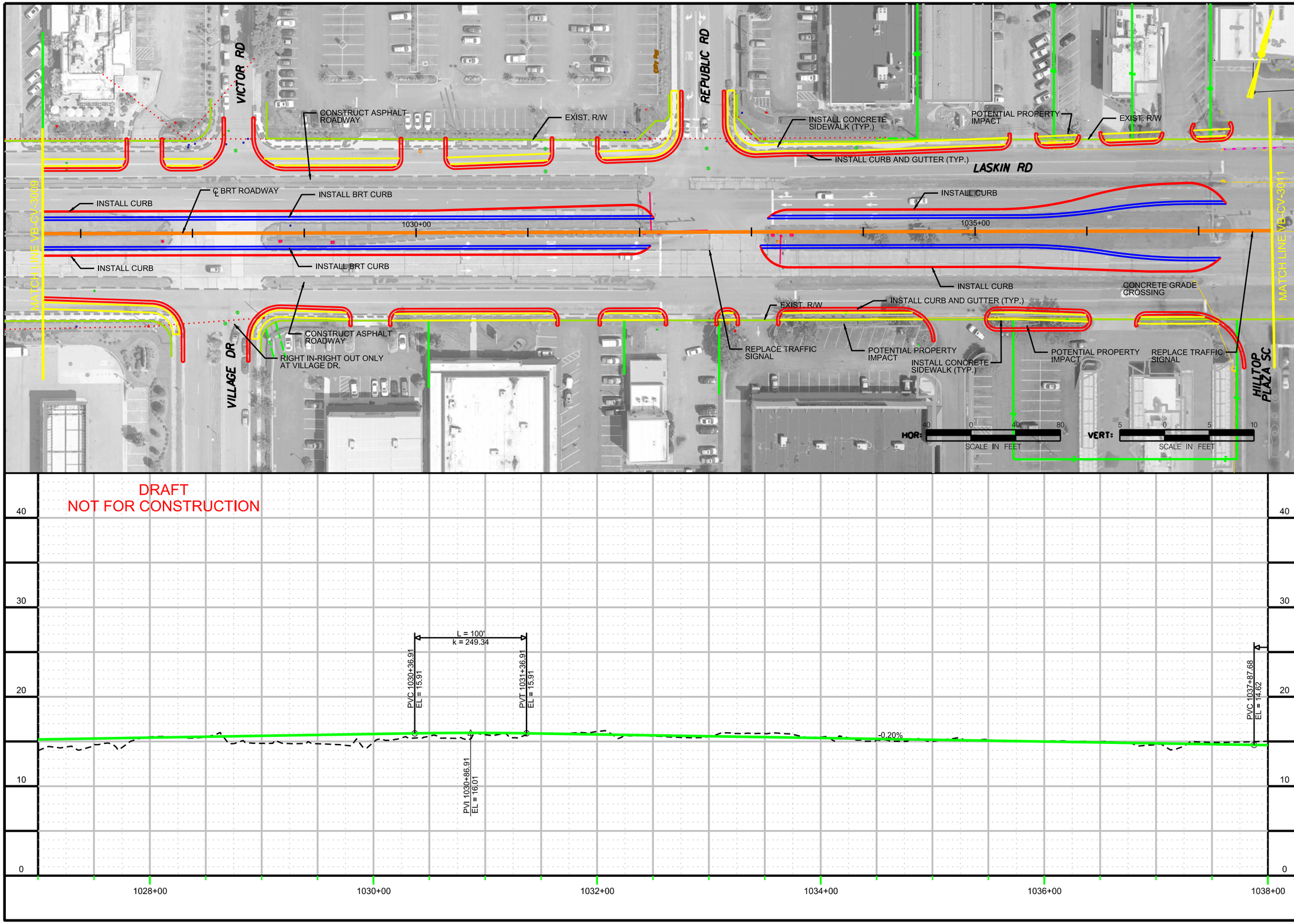

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OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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DATE	DATE	DATE	DATE	

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PLANS PREPARED BY:

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VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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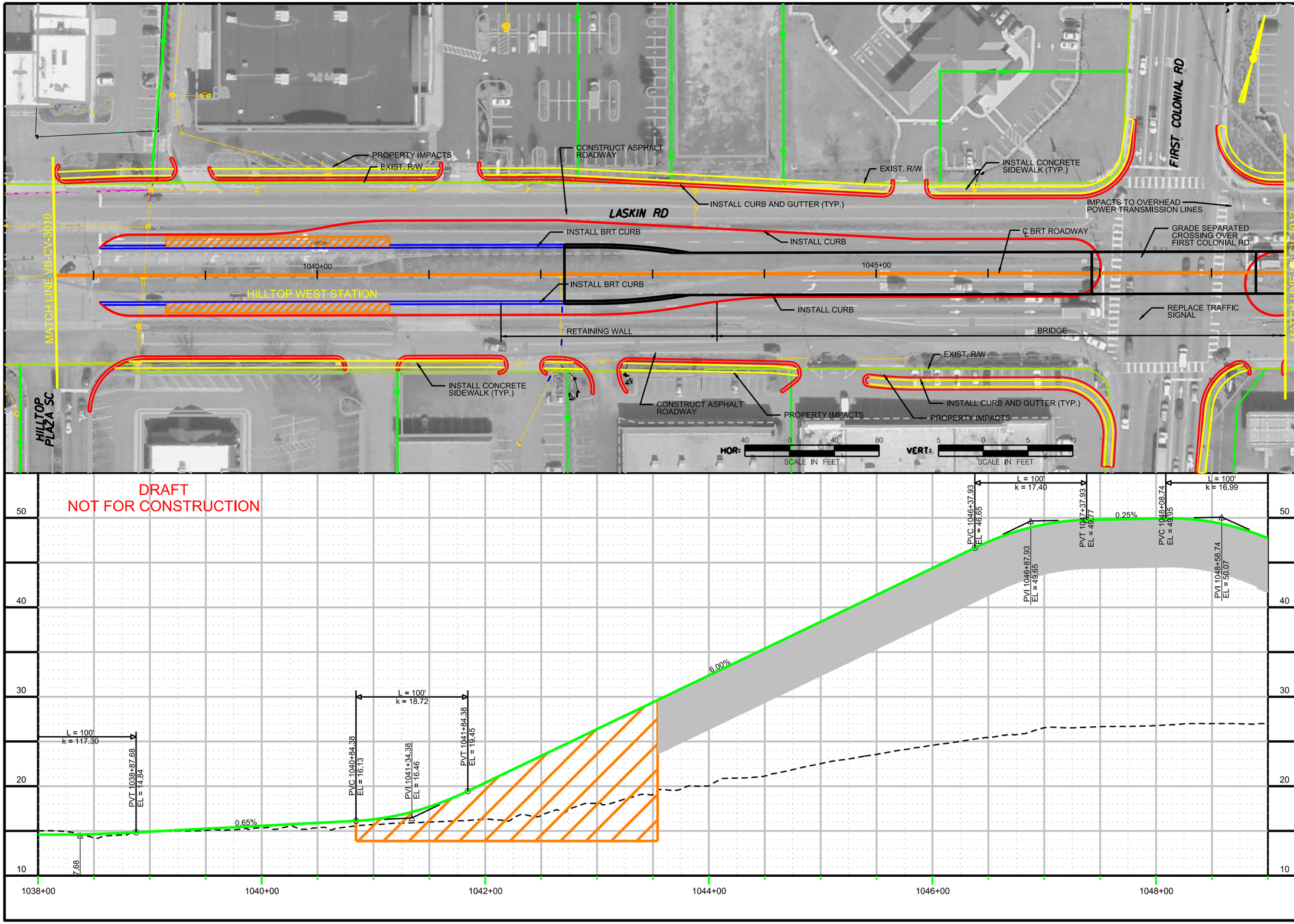

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OF

HILLTOP ALTERNATIVE BUS RAPID TRANSIT

LASKIN ROAD GUIDEWAY

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VIRGINIA BEACH TRANSIT EXTENSION STUDY

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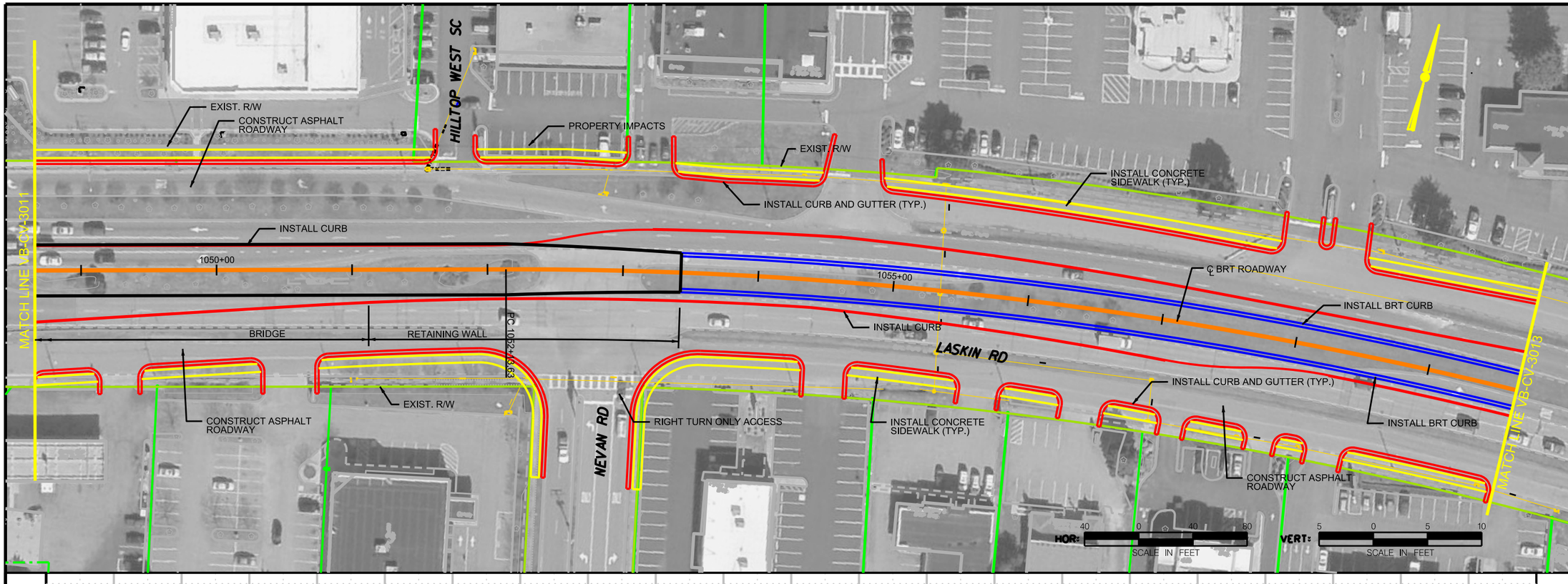

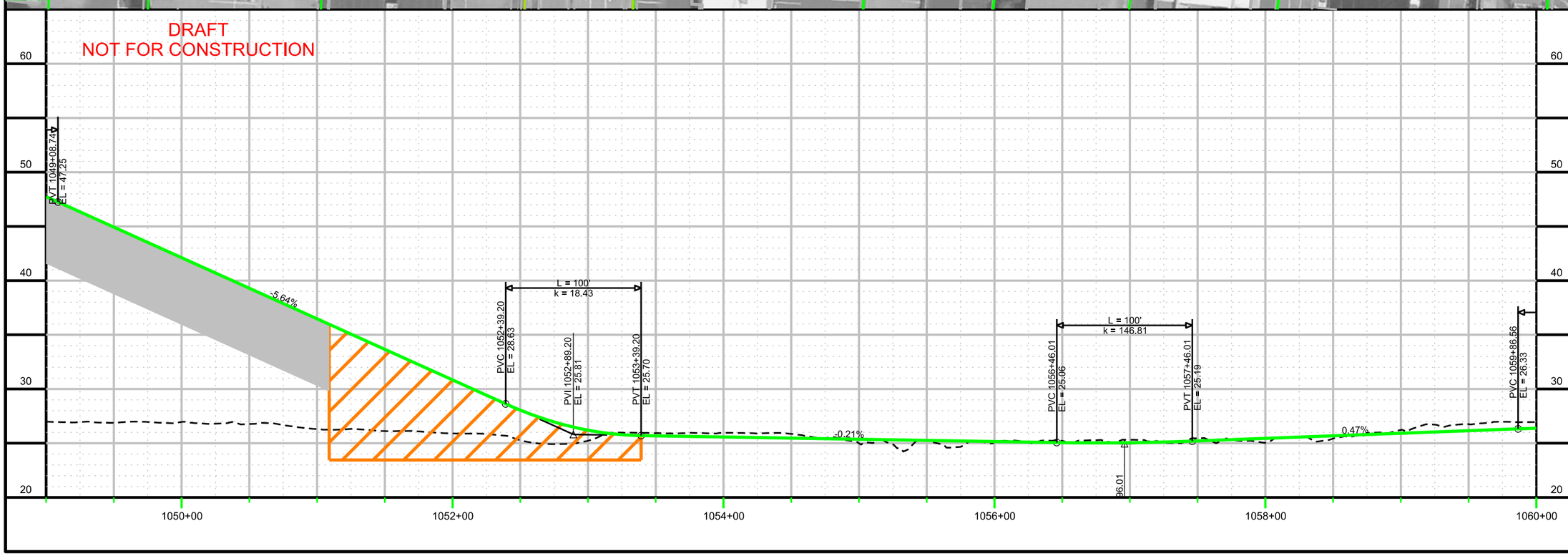

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HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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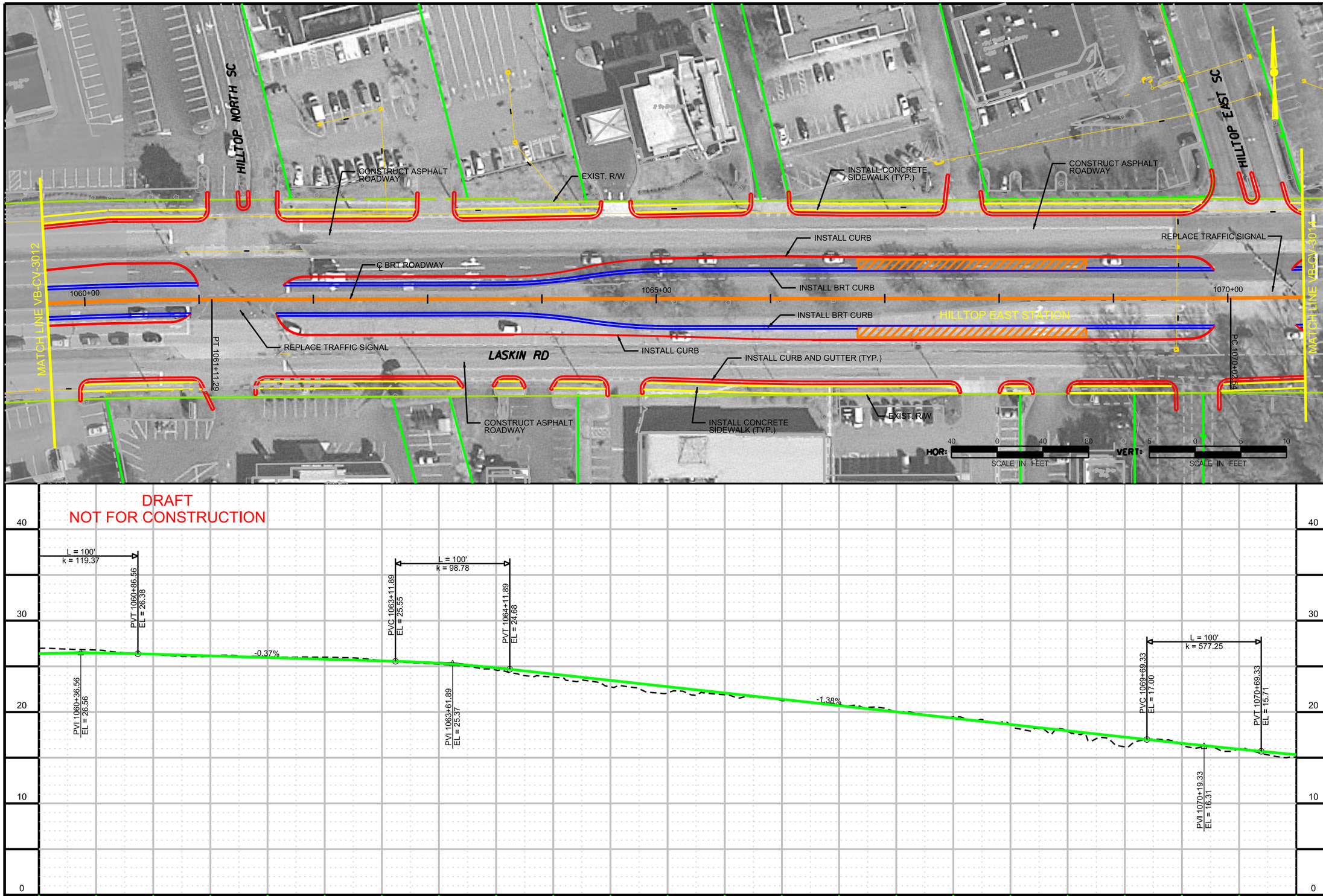

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OF

HILLTOP ALTERNATIVE BUS RAPID TRANSIT

LASKIN ROAD GUIDEWAY

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CKCK KVL DATE

APPR DATE

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VIRGINIA BEACH TRANSIT EXTENSION STUDY

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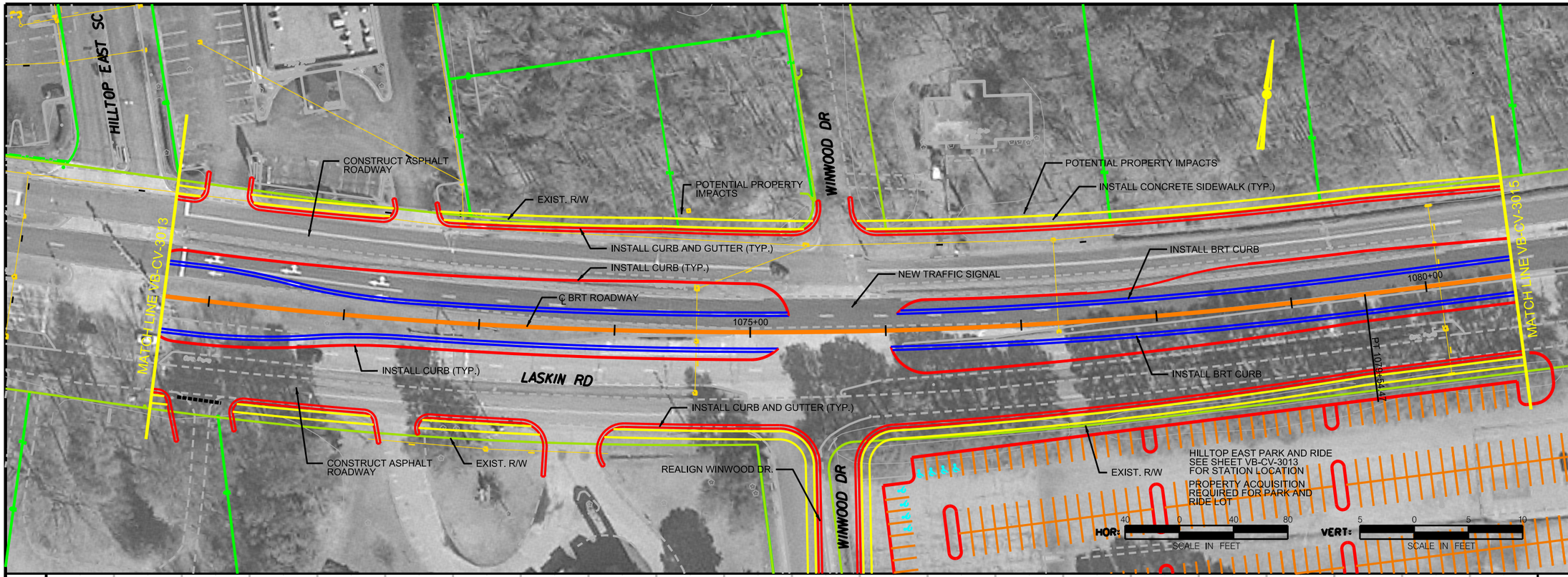

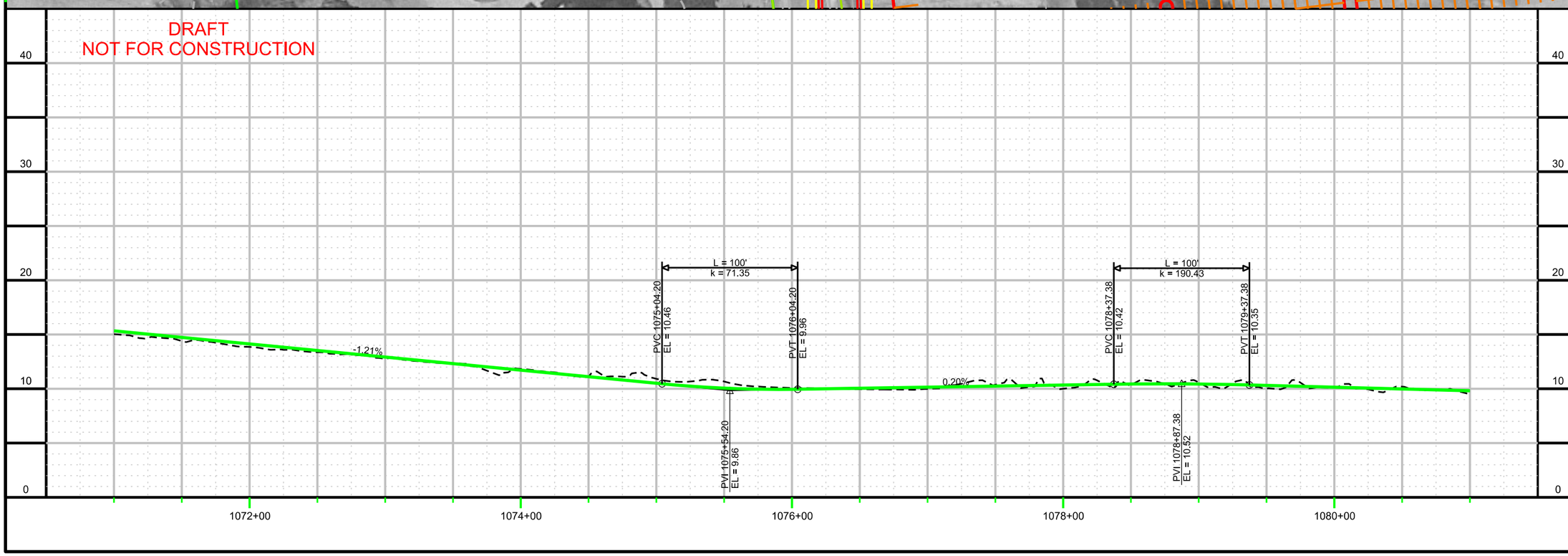

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OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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PLANS PREPARED BY:

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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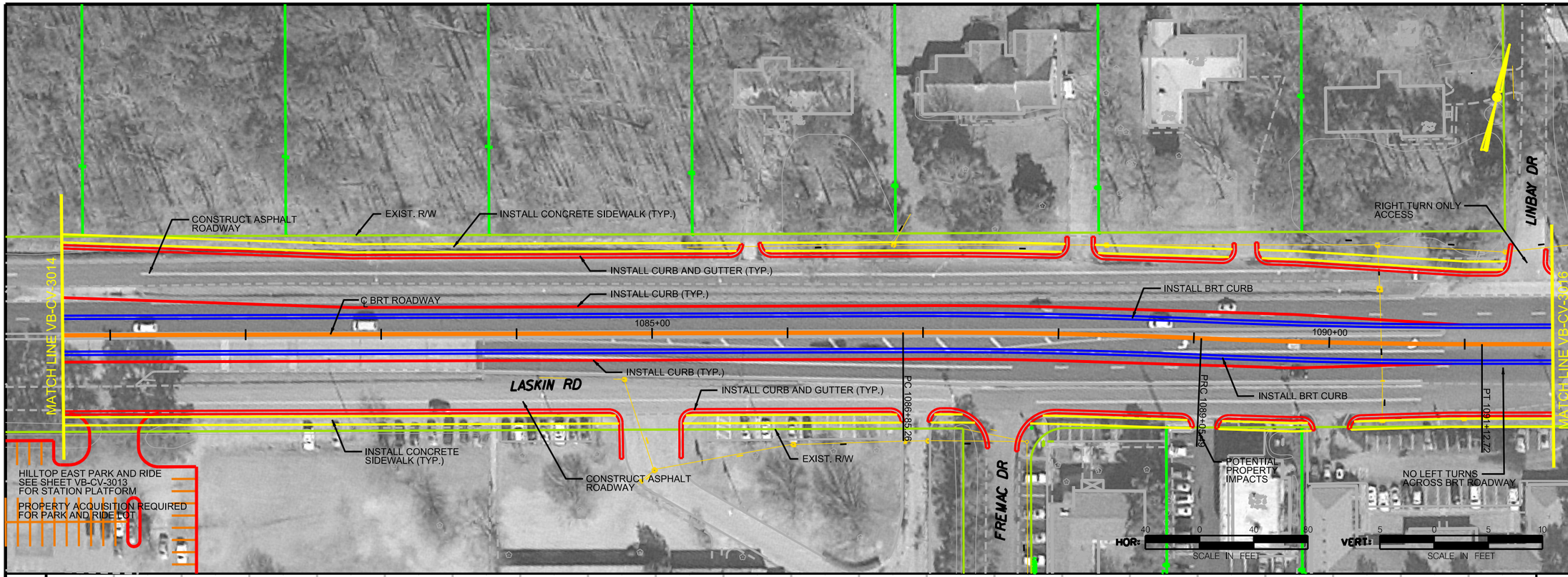

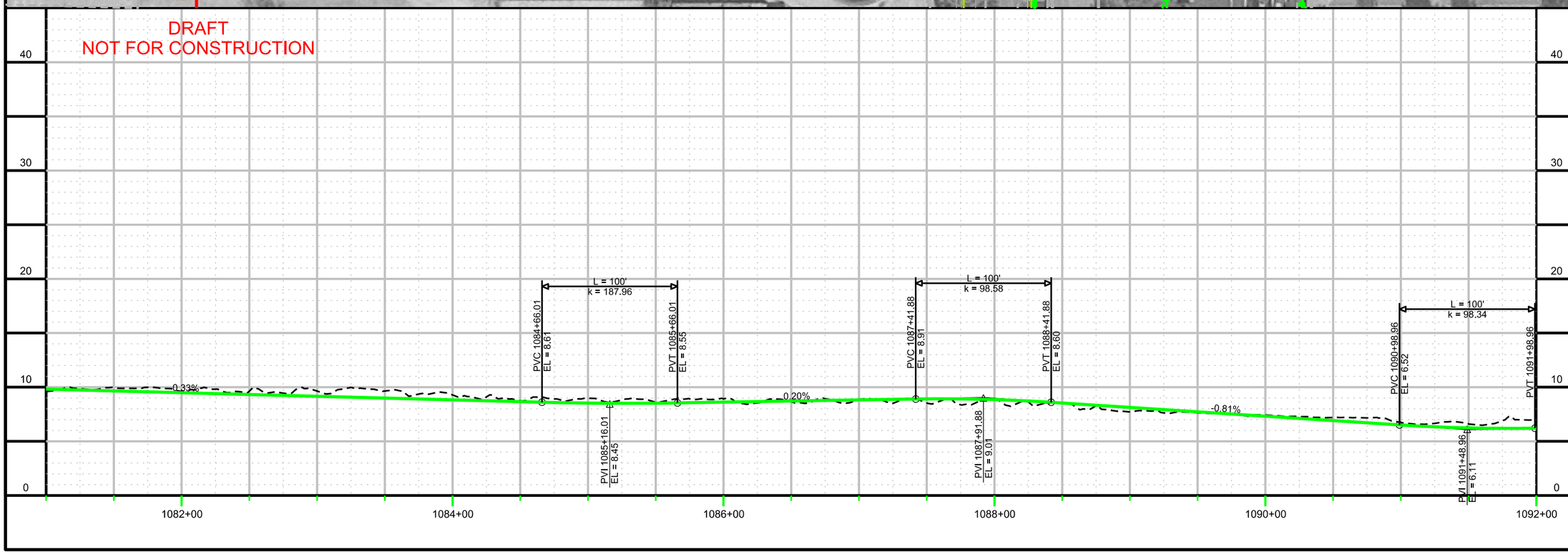

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OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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VIRGINIA BEACH TRANSIT
EXTENSION STUDY

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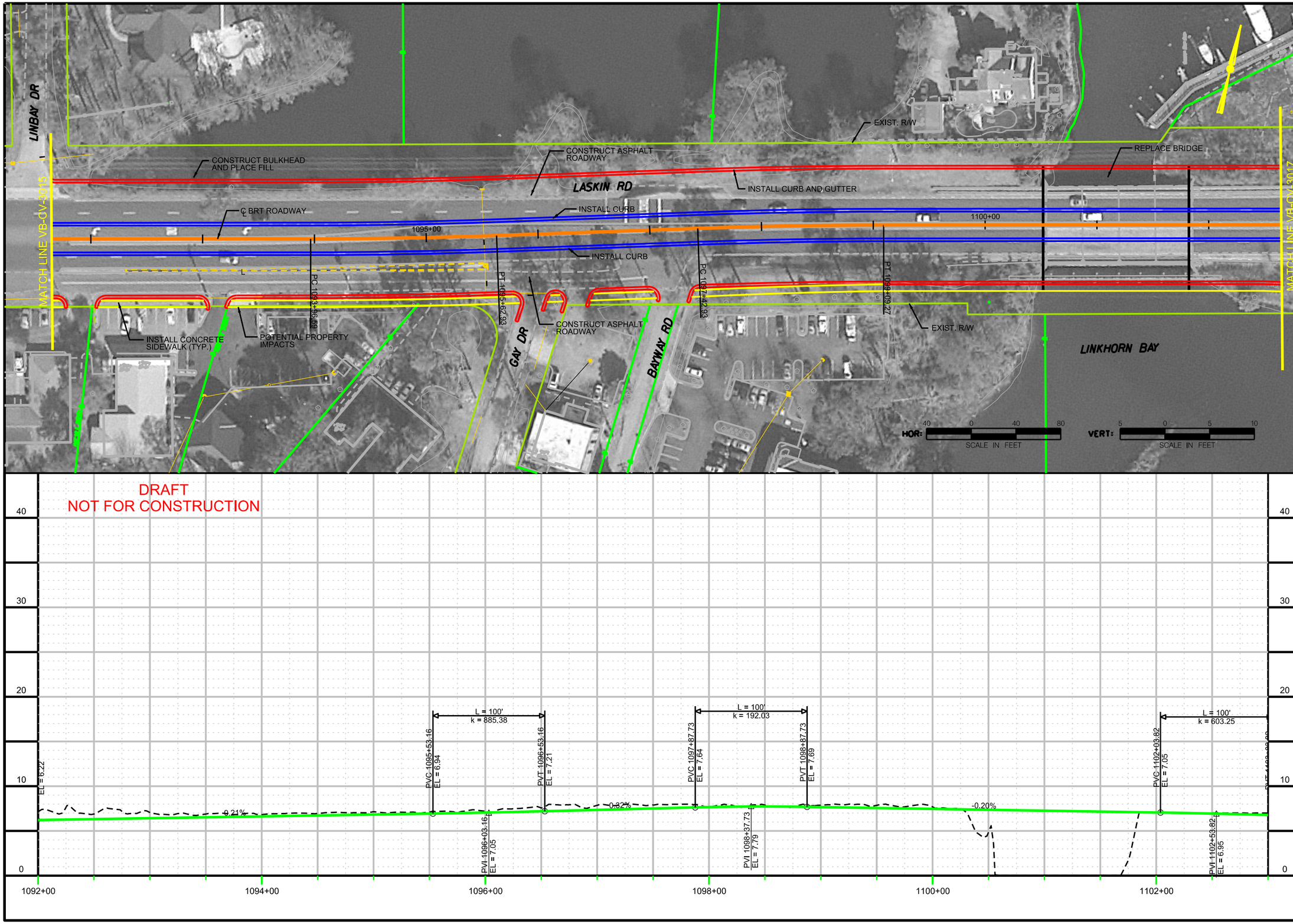

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OF

HILLTOP ALTERNATIVE BUS RAPID TRANSIT

LASKIN ROAD GUIDEWAY

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PLANS PREPARED BY:

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VIRGINIA BEACH TRANSIT EXTENSION STUDY

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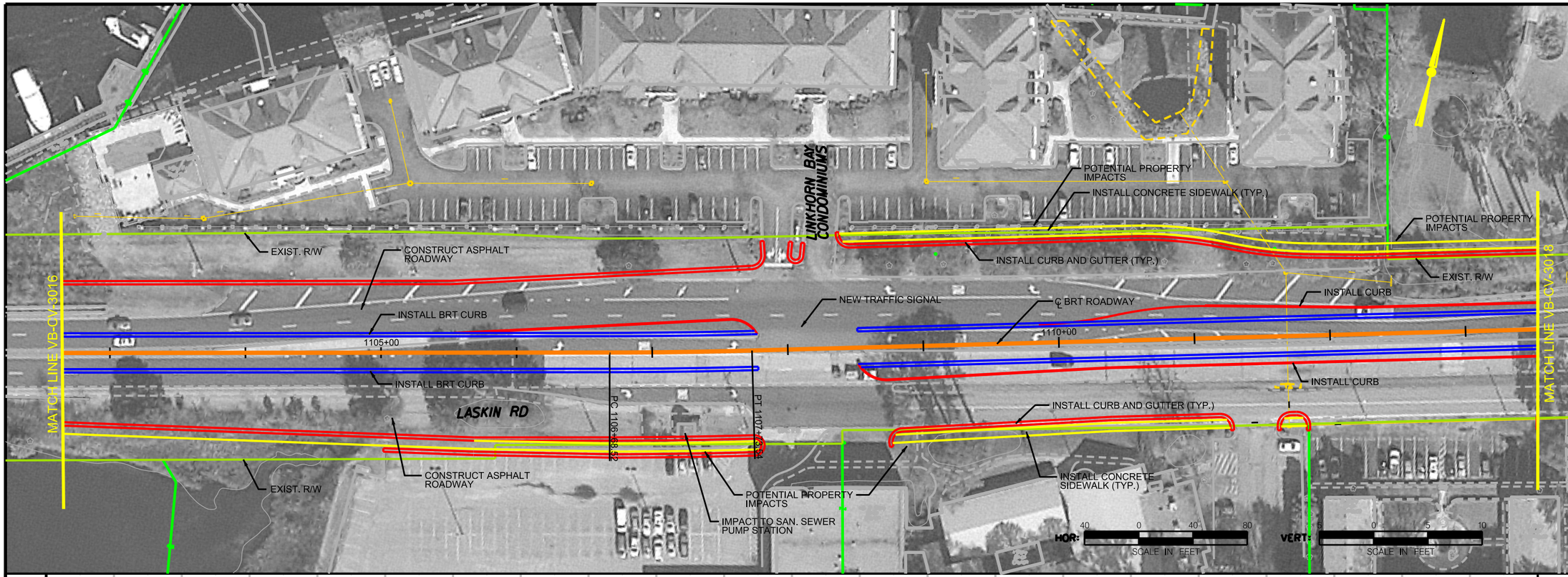

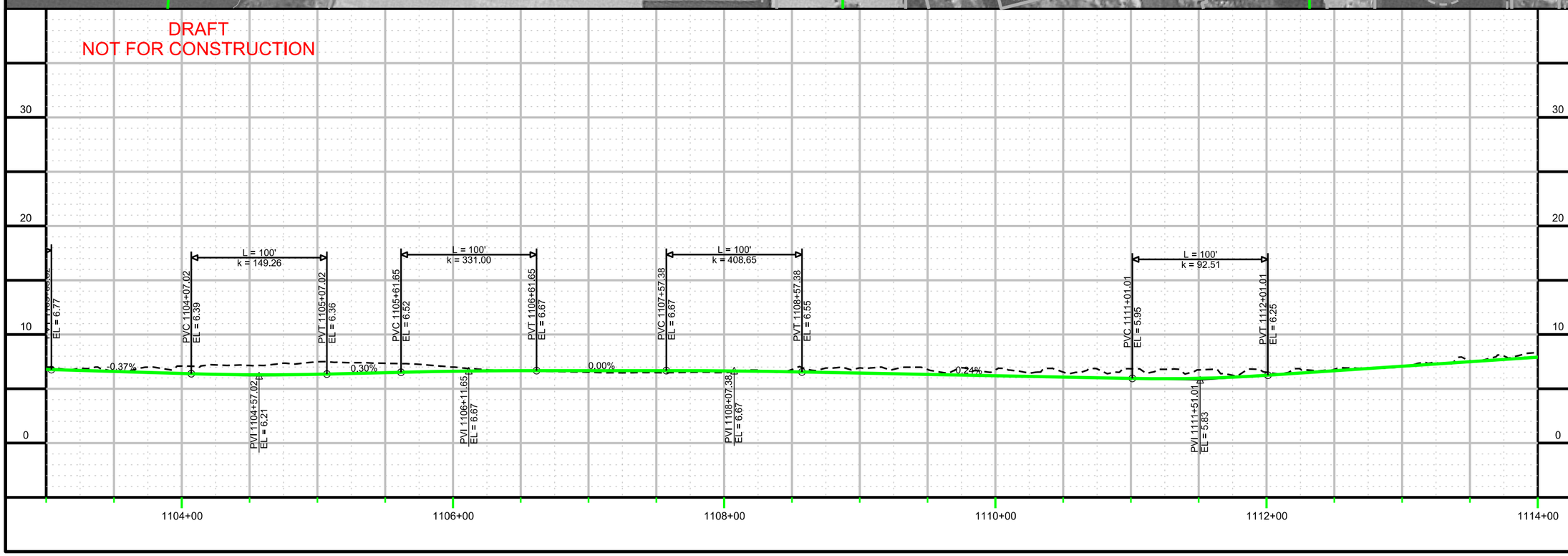

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OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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	KVL	CEC	CEC

NO.	REVISION DESCRIPTION	BY	DATE

PLANS PREPARED BY:

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
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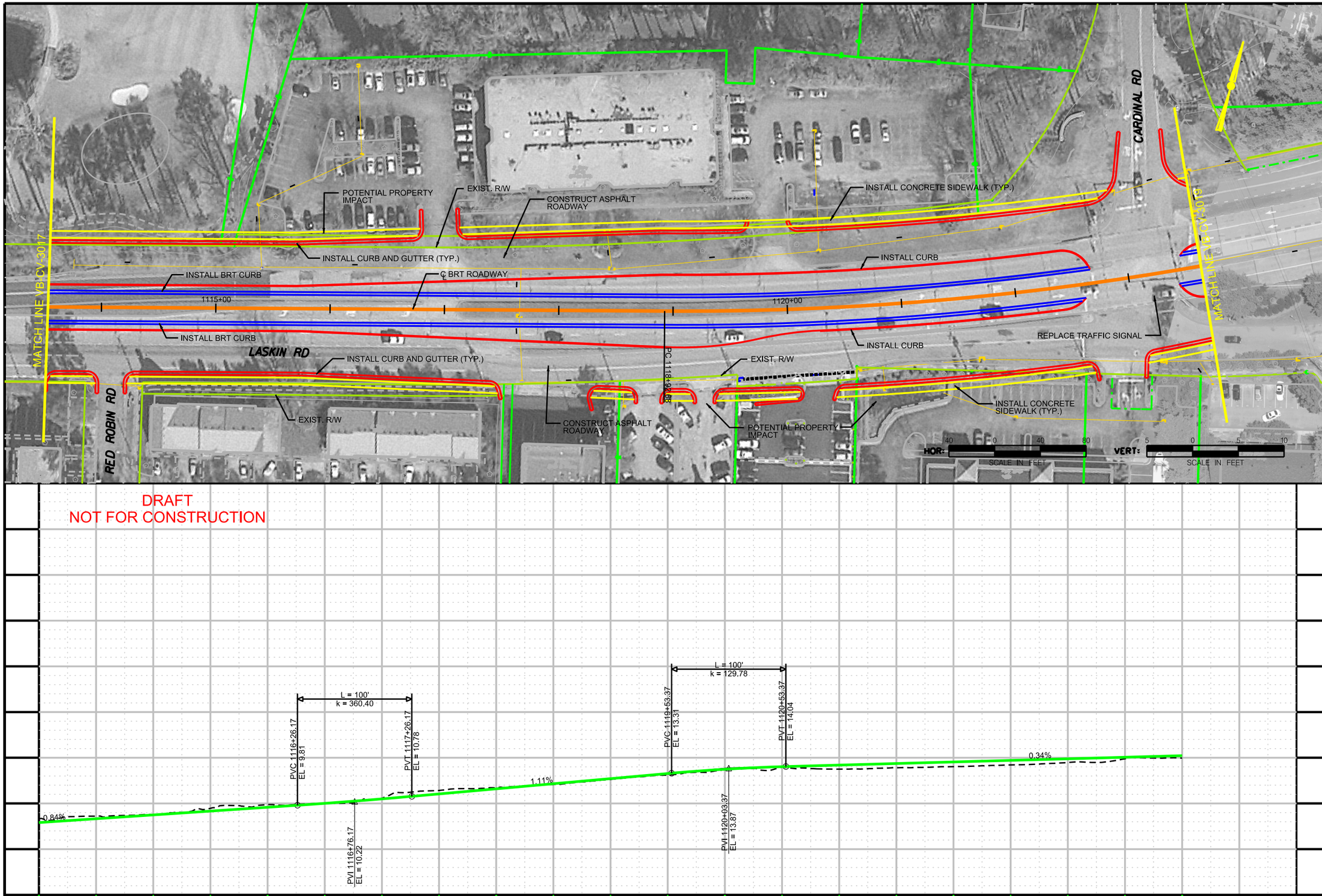

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OF

HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
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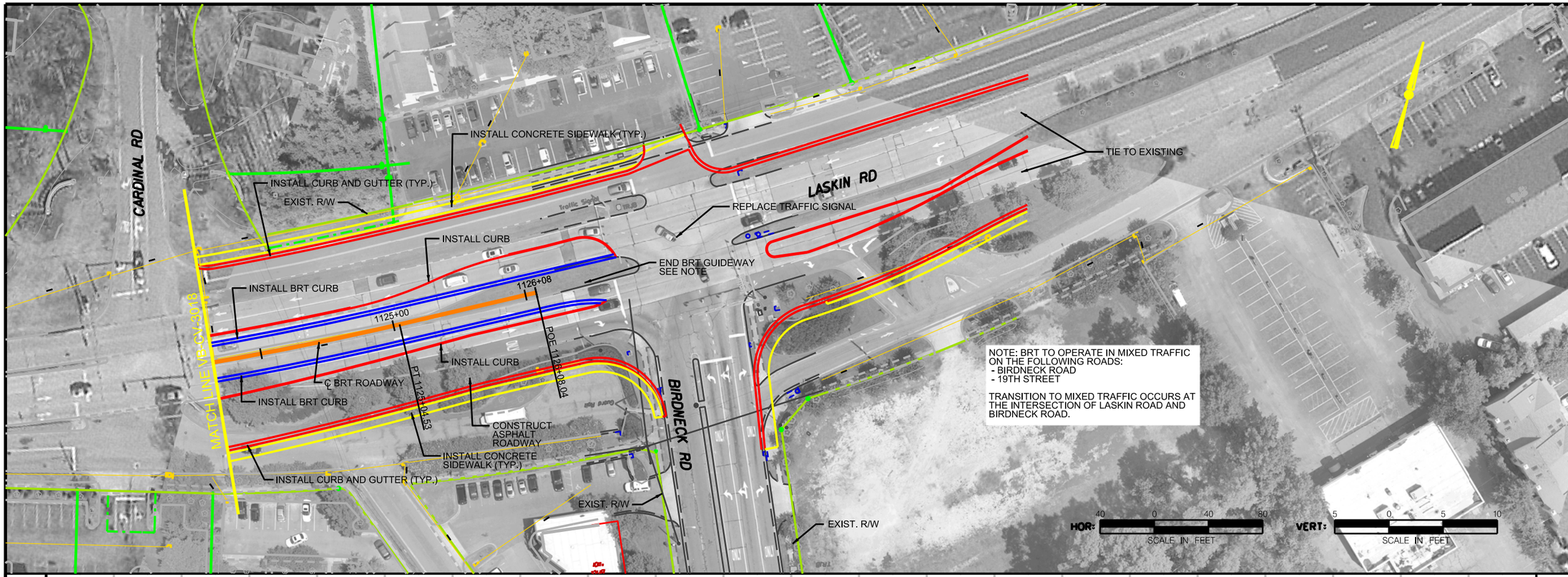

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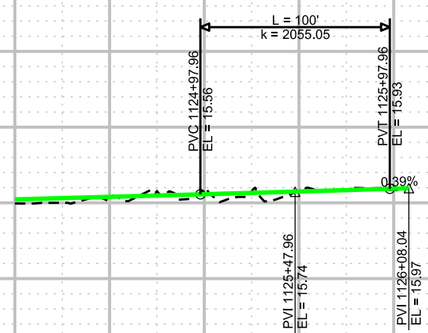

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HILLTOP ALTERNATIVE
BUS RAPID TRANSIT
LASKIN ROAD GUIDEWAY

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PLANS PREPARED BY:
HDR
HAMPTON ROADS TRANSIT

VIRGINIA BEACH TRANSIT
EXTENSION STUDY