

Office Locations  
 3000 West 10th Street  
 Tallahassee, FL 32310  
 904.437.7000  
 3000 West 10th Street  
 Tallahassee, FL 32310  
 904.437.7000  
 3000 West 10th Street  
 Tallahassee, FL 32310  
 904.437.7000

Design Associates, P.C.  
 Civil Engineering  
 Transportation - Environmental  
 Right-of-Way Services



PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
 SURVEYED BY, DATE: RDA: Ryan Dreelin LS (703) 334-9302; March 2019  
 DESIGN BY: RDA: Rick DeLong, PE (571) 719-6471  
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; April 2019

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).  
 GEOPAK Computer Identification No. 113198



# PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

## UNIVERSITY BOULEVARD EXTENSION

From: Edmonston Dr.  
 To: Sudley Manor Dr. (Route 1566)

PRELIMINARY PLAN SUBMISSION  
 MAY 2019

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

DESCRIPTION REFERENCE  
 Begin Proj. 0.002 mile east of the intersection of Edmonston Dr. and University Blvd.

DESCRIPTION REFERENCE  
 End of Proj. 0.013 mile west of intersection of Sudley Manor Dr. at University Blvd.

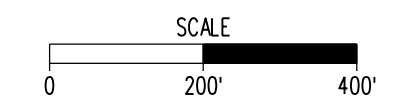
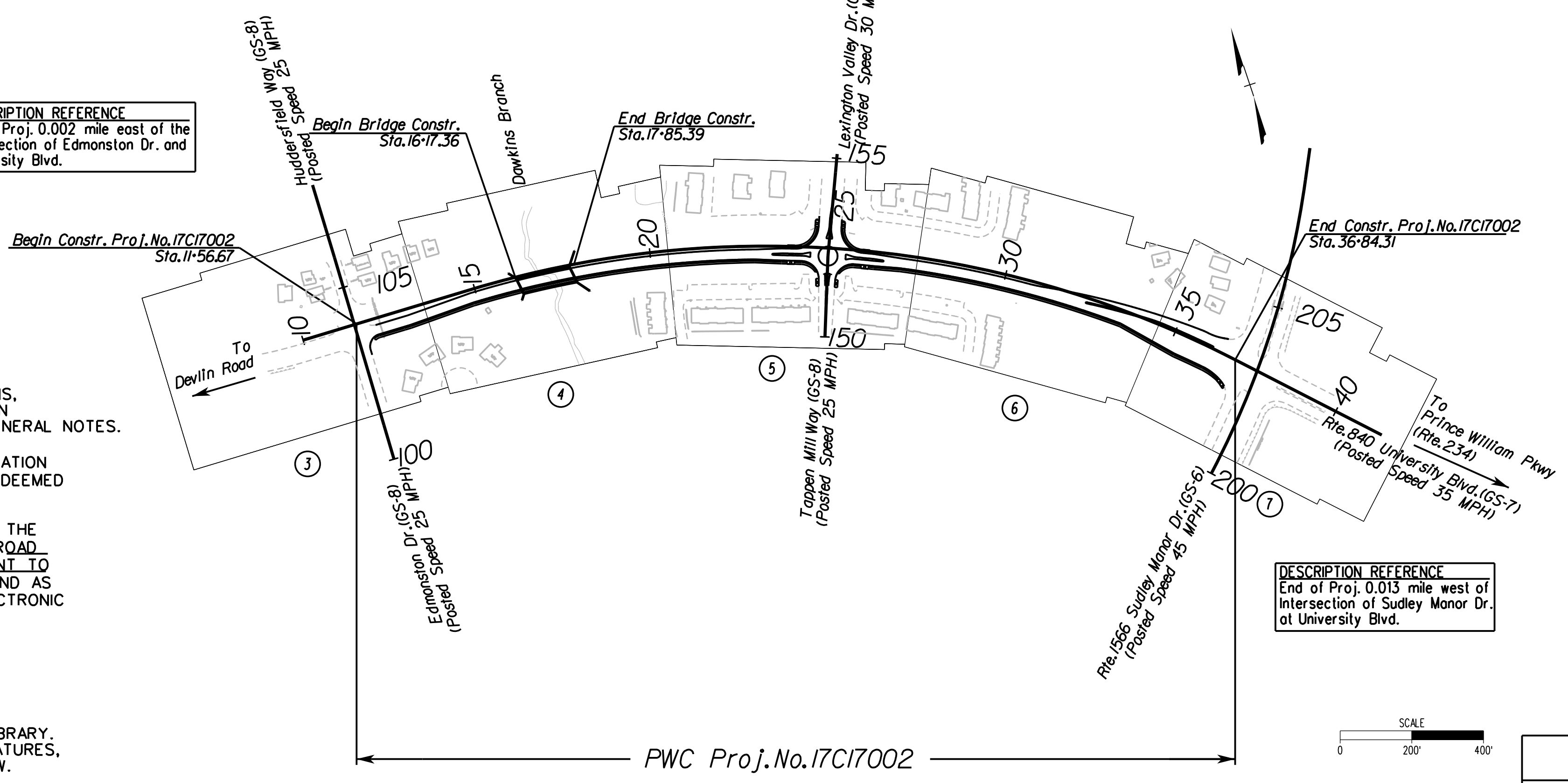
THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE GENERAL NOTES.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2015 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11U, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, IS FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.



CONVENTIONAL SIGNS

STATE LINE	LEVEE OR EMBANKMENT
COUNTY LINE	BRIDGES
CITY/TOWN OR VILLAGE	CULVERTS
RIGHT OF WAY LINE	DROP INLET
FENCE LINE	POWER POLES
UNFENCED PROPERTY LINE	TELEPHONE OR TELEGRAPH POLES
FENCED PROPERTY LINE	TELEPHONE OR TELEGRAPH LINES
WATER LINE	HEDGE
SANITARY SEWER LINE	TREES
GAS LINE	HEAVY WOODS
ELECTRIC UNDERGROUND CABLE	GROUND ELEVATION
TRAVELED WAY	GRADE ELEVATION
GUARD RAIL	
RETAINING WALL	
RAILROADS	
BASE OR SURVEY LINE	

POPULATION 468,011 (2018 Est. CENSUS)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	PPMS NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES		
	C-501	-	F000	-	2527.64	0.479	2359.61	0.447	Construction	From Edmonston Drive to Sudley Manor Drive (Rte.1566)
	B-001	-	-	-	168.03	0.032	-	-	Bridge	Bridge passing over Dawkins Branch

NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

STATE	FEDERAL AID		STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT		
VA.		840	PWC 17C17002	SEE TABULATIONS BELOW FOR SECTION NUMBERS	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

NON-NHS URBAN MAJOR COLLECTOR STREET SYSTEM - ROLLING - GS-7 (RTE. 840, UNIVERSITY BLVD.)

	Fr: Devlin Road To: University Boulevard
ADT	6,400 (2017)
DHV	630 (2017)
D (%) (design hour)	91 (2017)
T (%) (design hour)	1 (2017)
V (MPH)	35 MPH (Design)

See Plan and Profile Sheets for horizontal and vertical curve design speed data

Rinker Design Associates, P.C.  
 Manassas, Virginia  
 ROADWAY ENGINEER

APPROVED FOR CONSTRUCTION BY PRINCE WILLIAM COUNTY

DATE \_\_\_\_\_ DIRECTOR OF TRANSPORTATION \_\_\_\_\_

COVER SHEET INFORMATION

County Plan Name:	University Boulevard Extension
Magisterial District:	Brentsville
County Contract No.:	5019844, Task 7
VDOT Project No.:	N/A
County Project Manager:	Khatab Shammout, P.E.
Address and Phone:	Prince William Department of Transportation 5 County Complex Court, Suite 290 Prince William, VA 22192. Phone: (703) 792-6826
Consultant Engineer:	Rinker Design Associates, P.C., Mark Gunn, P.E. Rinker Design Associates, P.C., Rick DeLong, P.E.
Address and Phone:	9385 Discovery Blvd, Suite 200 Manassas, VA 20109. Phone: (703) 334-9288

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PRELIMINARY SUBMISSION

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PROJECT MANAGER PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE RDA: Bryan Dreel (703) 334-9302 March 2019  
DESIGN BY RDA: Rick DeLong, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE Accurark (703) 378-0100 April 2019

# Existing Permanent Easement Information

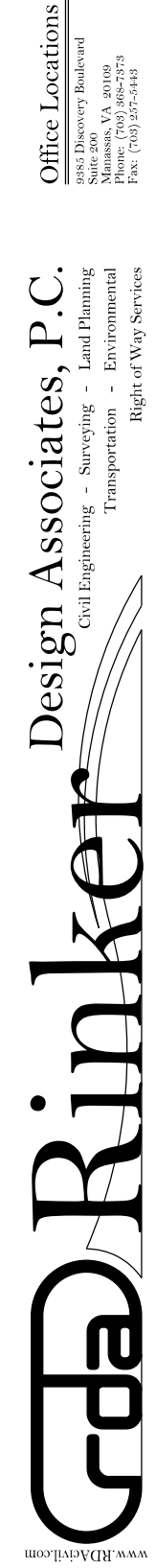
REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	840	PWC 17C17002	IF

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

- E-001 EX. GUARD RAIL ESMT. INSTR. \*20030403006012 & \*20030403006013
- E-002 EX. LANDSCAPE AREA INSTR. \*20030403006012 & \*20030403006013
- E-003 EX. 25' WATERMAIN ESMT. INSTR. \*20030403006012 & \*20030403006013
- E-004 EX. SIGHT DISTANCE ESMT. INSTR. \*20030403006012 & \*20030403006013
- E-005 EX. 10' WATERMAIN ESMT. INSTR. \*20030403006012 & \*20030403006013
- E-006 EX. WATER & SANITARY SEWER ESMT. D.B. 1815, PG. 795
- E-007 EX. 10' WATERMAIN ESMT. INSTR. \*200207020085126
- E-008 EX. BUFFER AREA INSTR. \*200406120080337
- E-009 EX. FLOODPLAIN LIMITS PER INSTR. \*200406120080337
- E-010 EX. FLOODPLAIN LIMITS PER INSTR. \*200406120080337
- E-011 EX. SANITARY SEWER ESMT. INSTR. \*200207020085126
- E-012 EX. BLANKET UTILITY ESMT. INSTR. \*200406120080337
- E-013 EX. INGRESS EGRESS ESMT. INSTR. \*200406120080337
- E-014 EX. STORM DRAIN ESMT. INSTR. \*200406120080337
- E-015 EX. STORM DRAIN ESMT. INSTR. \*200406120080343
- E-016 EX. STORM DRAIN ESMT. INSTR. \*200207020085126
- E-017 EX. INGRESS EGRESS ESMT. INSTR. \*200406120080343
- E-018 EX. 30' BUFFER AREA INSTR. \*200405120080342
- E-019 EX. BLANKET UTILITY ESMT. INSTR. \*200405120080342
- E-020 EX. STORM DRAIN ESMT. INSTR. \*200202140021457
- E-021 EX. 10' WATERMAIN ESMT. INSTR. \*200207020085126
- E-022 EX. BUFFER AREA INSTR. \*201308070080236
- E-023 EX. 10' WATERMAIN ESMT. INSTR. \*200609260138433
- E-024 EX. GUARDRAIL/BARRIER ESMT. INSTR. \*200609260138433
- E-025 EX. SIDEWALK ESMT. INSTR. \*200703300038889
- E-027 EX. WATERLINE ESMT. INSTR. \*200609260138433
- E-028 EX. BUFFER AREA INSTR. \*201308070080236
- E-029 EX. MAINTENANCE ESMT. INSTR. \*200703300038889
- E-030 EX. TEMPORARY CONSTRUCTION ESMT. INSTR. \*201210160099306
- E-031 EX. WATERLINE ESMT. INSTR. \*201210160099306
- E-032 APPROXIMATE LOCATION EX. TRANSCONTINENTAL GAS PIPE LINE CORPORATION ESMT. D.B. 142, PG. 90 AS SUPPLEMENTED IN INSTR. \*200704100043236

- E-033 EX. BRIDGE MAINTENANCE ESMT. INSTR. \*201210160099306
- E-034 APPROXIMATE LOCATION EX. TRANSCONTINENTAL GAS PIPE LINE CORPORATION ESMT. D.B. 360, PG. 621, D.B. 204, PG. 525 & D.B. 145, PG. 306
- E-035 EX. SIDEWALK ESMT. INSTR. \*200703300038889
- E-036 EX. INGRESS-EGRESS ESMT. INSTR. \*201003030018112
- E-037 EX. 20' SANITARY SEWER ESMT. INSTR. \*201003030018101
- E-038 EX. 30' UTILITY AND LANDSCAPE AREA INSTR. \*200207110088958
- E-039 EX. STORM DRAINAGE ESMT. INSTR. \*200207110088958
- E-040 EX. RETAINING WALL MAINTENANCE ESMT. INSTR. \*200207110088958
- E-041 EX. PUBLIC UTILITY, WATERLINE, SANITARY AND INGRESS-EGRESS ESMT. INSTR. \*200207110091586
- E-042 EX. STORM DRAINAGE ESMT. INSTR. \*200207110088958
- E-043 EX. STORM DRAINAGE ESMT. INSTR. \*200207020085126
- E-044 EX. STORM DRAINAGE ESMT. INSTR. \*200207110088958
- E-045 EX. 25' SANITARY SEWER ESMT. INSTR. \*200207020085126
- E-046 EX. 25' UTILITY AND LANDSCAPE AREA INSTR. \*200207020085126
- E-047 EX. 25' UTILITY AND LANDSCAPE AREA INSTR. \*200207020085126
- E-048 EX. 25' SANITARY SEWER ESMT. INSTR. \*200207020085126
- E-049 EX. STORM DRAINAGE ESMT. INSTR. \*200207020085126
- E-050 EX. 30' LANDSCAPE BUFFER AREA INSTR. \*200207110091586
- E-051 EX. PUBLIC UTILITY, WATERLINE, SANITARY AND INGRESS-EGRESS ESMT. INSTR. \*200207110091586
- E-052 EX. SANITARY SEWER ESMT. INSTR. \*200207110091586
- E-053 EX. 25' SANITARY SEWER ESMT. INSTR. \*200207020085126
- E-054 EX. 20' STORM DRAINAGE ESMT. INSTR. \*200207110091586
- E-055 EX. 30' STORM DRAINAGE ESMT. INSTR. \*200207020085126 AND EX. STORM DRAINAGE ESMT. INSTR. \*200207110091586
- E-056 EX. RPA BUFFER LIMIT INSTR. \*200207110091586
- E-057 EX. FLOOD HAZARD AREA INSTR. \*200110230111315
- E-058 EX. RPA BUFFER LIMIT (PLAN \*94-00050)
- E-059 EX. BUFFER AREA INSTR. \*200110230111315
- E-060 EX. STORM DRAIN ESMT. INSTR. \*200110230111315
- E-061 EX. SIGHT DISTANCE ESMT. INSTR. \*200110230111315
- E-062 EX. STORM DRAIN ESMT. INSTR. \*200110230111315
- E-063 EX. SIGHT DISTANCE ESMT. INSTR. \*200110230111315



NOVA DISTRICT

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

PROJECT PWC 17C17002	SHEET NO. IF
-------------------------	-----------------

PROJECT MANAGER: PWCOT: Gladis Arboleda (703) 792-5276  
 SURVEYED BY, DATE: RDA: Bryan Dreelin LS (703) 334-9302 March 2019  
 DESIGN BY: RDA: Rick DeLong PE (521) 719-6471  
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100 April 2019

# Survey Control Traverse Data

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	840	PWC 17C17002	IF(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

10-200 REV. 01-2014

Virginia Department of Transportation Horizontal Control  
Control Station I.D. : 1 Date : 1-24-19

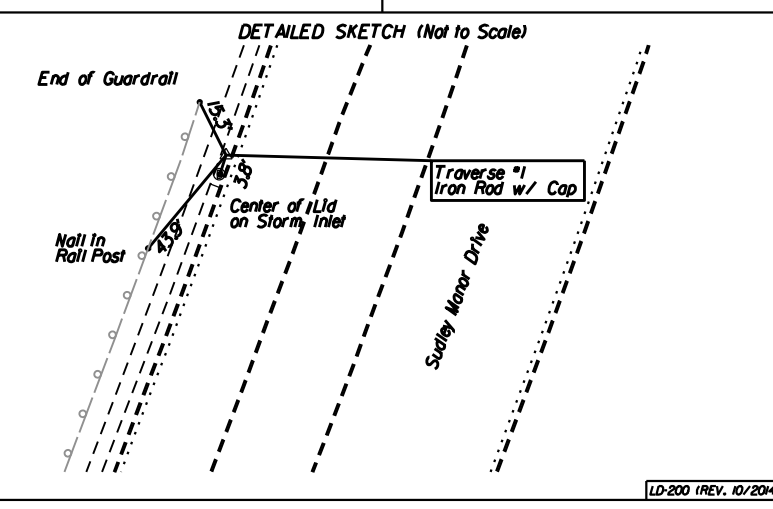
VDOT Project Coordinates (2004)  
East (11) : 1754679.999 Ft.  
North (11) : 6962057.598 Ft.  
Elevation : 265.22 Ft.

VA State Plane Coordinates : NAD 83 U.S. Survey Feet  
East (11) : 1754679.999 Ft.  
North (11) : 6962057.598 Ft.  
Ortho. Elevation (11) : 265.22 Ft.  
Zone : North 2 South - (space on "I" beside one)

Project Specific Combined Scale Factors : 1000055070 (9 Decimal Places)  
Project Number : 17C17002  
Project Information  
Route : 840 City/County : Prince William  
Established By : Rinker Design Associates, P.C.

Latitude : 38° 45' 43.493" N (5 Decimal Places)  
Longitude : 77° 32' 57.26422" W (5 Decimal Places)  
Geoid Separation (11) : 105.03  
Ellipsoid Height (11) : 160.08  
Horizontal Datum : NAD 83 Year : 2019  
Vertical Datum : NAD 1988 Geoid : 2019B  
Azimuth to Station : 12 Is 289.09 32  
Control Based On Station Name/PID : A1822.064550, used 012308

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formulae :  
 \* Multiply the Easting and Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)  
 \* Reverse this Procedure to convert VDOT Project Coordinates (2004) to NAD 83 U.S. Survey Feet

DETAILED SKETCH (Not to Scale)  


10-200 REV. 01-2014

10-200 REV. 01-2014

Virginia Department of Transportation Horizontal Control  
Control Station I.D. : 2 Date : 1-24-19

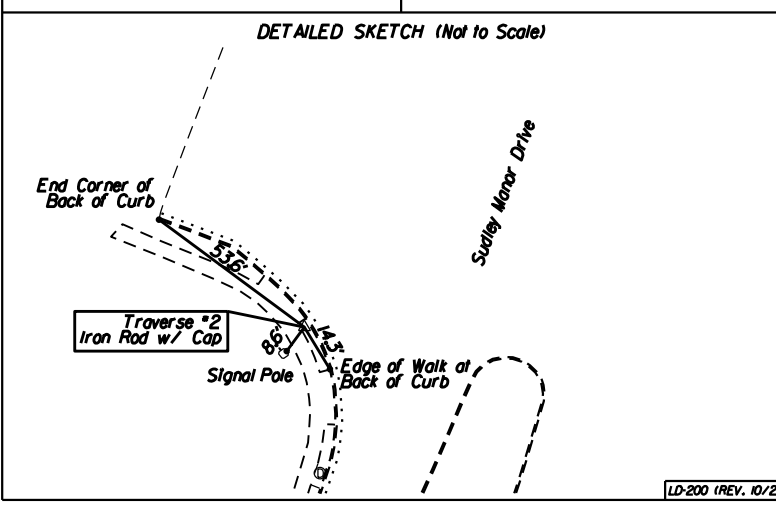
VDOT Project Coordinates (2004)  
East (11) : 1754887.460 Ft.  
North (11) : 6962345.885 Ft.  
Elevation : 262.57 Ft.

VA State Plane Coordinates : NAD 83 U.S. Survey Feet  
East (11) : 1754887.460 Ft.  
North (11) : 6962345.885 Ft.  
Ortho. Elevation (11) : 262.57 Ft.  
Zone : North 2 South - (space on "I" beside one)

Project Specific Combined Scale Factors : 1000055070 (9 Decimal Places)  
Project Number : 17C17002  
Project Information  
Route : 840 City/County : Prince William  
Established By : Rinker Design Associates, P.C.

Latitude : 38° 45' 42.820" N (5 Decimal Places)  
Longitude : 77° 32' 54.46669" W (5 Decimal Places)  
Geoid Separation (11) : 105.03  
Ellipsoid Height (11) : 160.08  
Horizontal Datum : NAD 83 Year : 2019  
Vertical Datum : NAD 1988 Geoid : 2019B  
Azimuth to Station : 12 Is 287.59 48  
Control Based On Station Name/PID : A1822.064550, used 012308

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formulae :  
 \* Multiply the Easting and Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)  
 \* Reverse this Procedure to convert VDOT Project Coordinates (2004) to NAD 83 U.S. Survey Feet

DETAILED SKETCH (Not to Scale)  


10-200 REV. 01-2014

10-200 REV. 01-2014

Virginia Department of Transportation Horizontal Control  
Control Station I.D. : 11 Date : 1-24-19

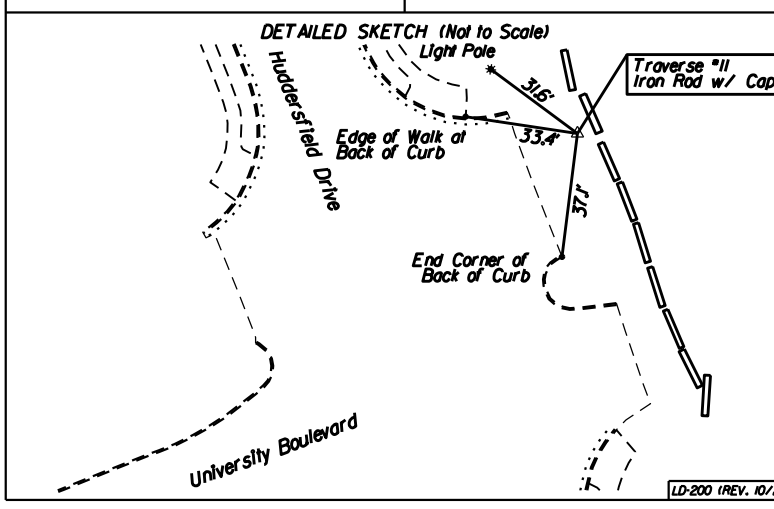
VDOT Project Coordinates (2004)  
East (11) : 1752703.446 Ft.  
North (11) : 6963366.532 Ft.  
Elevation : 225.57 Ft.

VA State Plane Coordinates : NAD 83 U.S. Survey Feet  
East (11) : 1752703.446 Ft.  
North (11) : 6963366.532 Ft.  
Ortho. Elevation (11) : 225.57 Ft.  
Zone : North 2 South - (space on "I" beside one)

Project Specific Combined Scale Factors : 1000055070 (9 Decimal Places)  
Project Number : 17C17002  
Project Information  
Route : 840 City/County : Prince William  
Established By : Rinker Design Associates, P.C.

Latitude : 38° 45' 52.54780" N (5 Decimal Places)  
Longitude : 77° 33' 21.85999" W (5 Decimal Places)  
Geoid Separation (11) : 105.03  
Ellipsoid Height (11) : 160.08  
Horizontal Datum : NAD 83 Year : 2019  
Vertical Datum : NAD 1988 Geoid : 2019B  
Azimuth to Station : 12 Is 127.14 48  
Control Based On Station Name/PID : A1822.064550, used 012308

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formulae :  
 \* Multiply the Easting and Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)  
 \* Reverse this Procedure to convert VDOT Project Coordinates (2004) to NAD 83 U.S. Survey Feet

DETAILED SKETCH (Not to Scale)  


10-200 REV. 01-2014

10-200 REV. 01-2014

Virginia Department of Transportation Horizontal Control  
Control Station I.D. : 12 Date : 1-24-19

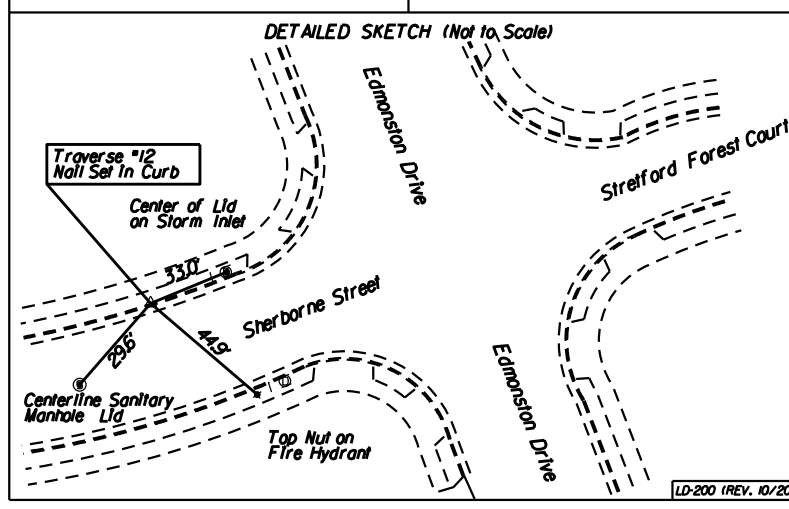
VDOT Project Coordinates (2004)  
East (11) : 1752526.684 Ft.  
North (11) : 6962818.825 Ft.  
Elevation : 225.57 Ft.

VA State Plane Coordinates : NAD 83 U.S. Survey Feet  
East (11) : 1752526.684 Ft.  
North (11) : 6962818.825 Ft.  
Ortho. Elevation (11) : 225.57 Ft.  
Zone : North 2 South - (space on "I" beside one)

Project Specific Combined Scale Factors : 1000055070 (9 Decimal Places)  
Project Number : 17C17002  
Project Information  
Route : 840 City/County : Prince William  
Established By : Rinker Design Associates, P.C.

Latitude : 38° 45' 48.071" N (5 Decimal Places)  
Longitude : 77° 33' 24.5000" W (5 Decimal Places)  
Geoid Separation (11) : 105.03  
Ellipsoid Height (11) : 160.08  
Horizontal Datum : NAD 83 Year : 2019  
Vertical Datum : NAD 1988 Geoid : 2019B  
Azimuth to Station : 12 Is 109.09 32  
Control Based On Station Name/PID : A1822.064550, used 012308

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formulae :  
 \* Multiply the Easting and Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)  
 \* Reverse this Procedure to convert VDOT Project Coordinates (2004) to NAD 83 U.S. Survey Feet

DETAILED SKETCH (Not to Scale)  


10-200 REV. 01-2014

## SURVEY ALIGNMENT

NUMBER	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION	STATION
1			6962067.6980	11754679.9906	265.22	10-00.00
2	N 40°00'03.414" E	322.29	6962314.5846	11754887.1600	262.57	13-22.29
3	N 46°35'50.551" W	186.69	6962442.8613	11754751.5236	249.90	15-08.98
4	N 58°21'00.661" W	178.08	6962536.3057	11754599.9274	245.88	16-87.06
5	N 46°31'56.198" W	321.93	6962757.7776	11754366.2813	245.42	20-08.99
6	N 39°59'40.800" W	318.90	6963002.0858	11754161.3211	250.42	23-27.89
7	N 66°51'41.957" W	258.11	6963103.5115	11753923.9722	244.94	25-86.00
8	N 73°57'53.800" W	250.82	6963172.7947	11753682.9094	237.73	28-36.82
9	N 66°44'36.712" W	268.14	6963278.6709	11753436.5527	226.58	31-04.97
10	N 87°23'37.455" W	398.12	6963296.7743	11753038.8443	215.20	35-03.09
11	S 84°54'55.672" W	336.72	6963266.9320	11752703.4457	225.57	38-39.81
12	S 21°23'50.035" W	484.50	6962815.8252	11752526.6840	223.91	43-24.31

PROJECT PWC 17C17002	SHEET NO. IF(1)
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PRELIMINARY SUBMISSION

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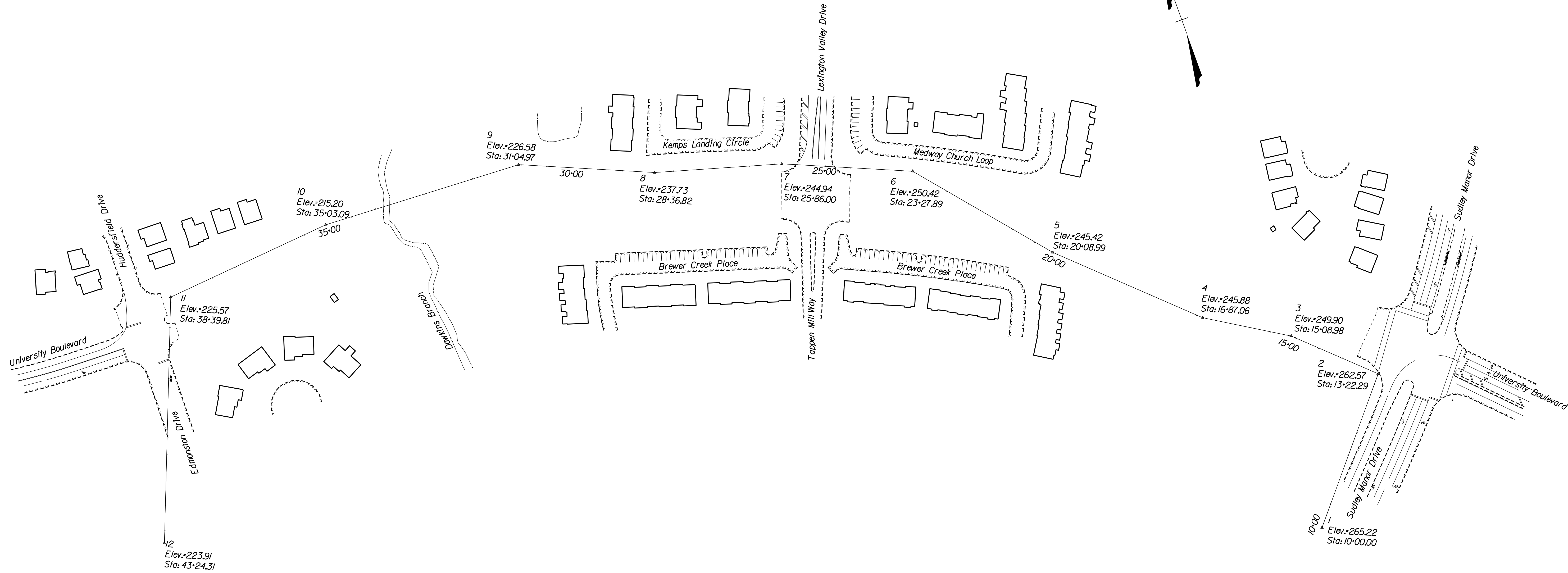
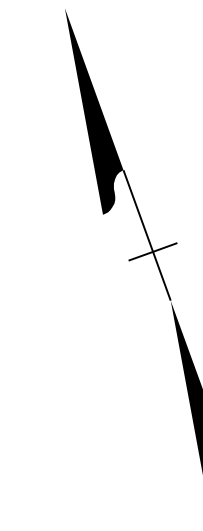
PROJECT MANAGER PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE RDA: Bryan Dreelha LS (703) 334-9302 March 2019  
DESIGN BY RDA: Rick DeLong PE (521) 719-6471  
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 April 2019

# Survey Control Traverse Data

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	840	PWC 17C17002	1F(2)

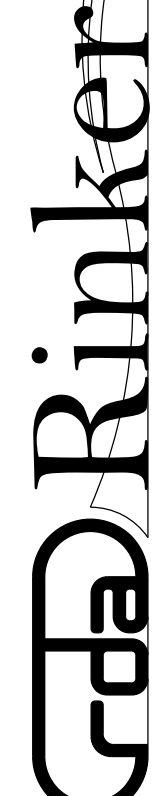
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

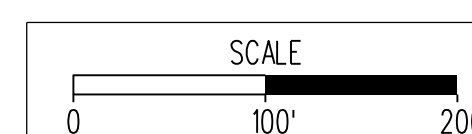


Online Locations  
10000 University Blvd  
Manassas, VA 20108  
Phone: (703) 334-9302  
Fax: (703) 334-9302

Design Associates, P.C.  
Civil Engineering, Surveying, Land Planning,  
Transportation, Environmental,  
Right-of-Way Services



NOVA DISTRICT



PROJECT	SHEET NO.
PWC 17C17002	1F(2)

PRELIMINARY SUBMISSION

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PROJECT MANAGER PWC DOT: Gladis Arboleda (703) 792-5276  
 SURVEYED BY, DATE RDA: Bryan Dreella LS (703) 334-9302 March 2019  
 DESIGN BY RDA: Rick DeLong, PE (571) 719-6471  
 SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 April 2019

# Construction Alignment Data Sheet

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	840	PWC 17C17002	16

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (Roadway)

## University Boulevard (Route 840)

Design Speed 35 MPH  
 From Sta.10+00.00 to Sta.41+44.21

Chain TRIAL04 contains:  
 TRIAL04I CUR TRIAL04\_3 TRIAL045

Beginning chain TRIAL04 description  
 Feature: - 25 Scale Baselines

Point TRIAL04I N 6,963,239.58 E 11,752,489.40 Sta 10+00.00

Course from TRIAL04I to PC TRIAL04\_3 S 88° 29' 07.54" E Dist 486.87

### Curve Data

Curve TRIAL04\_3  
 P.I. Station 26+40.91 N 6,963,196.21 E 11,754,129.74  
 Delta = 43° 56' 56.41" (RT)  
 Degree = 2° 00' 12.06"  
 Tangent = 1,154.03  
 Length = 2,193.78  
 Radius = 2,860.00  
 External = 224.06  
 Long Chord = 2,140.39  
 Mid.Ord. = 207.78  
 P.C. Station 14+86.87 N 6,963,226.72 E 11,752,976.11  
 P.T. Station 36+80.65 N 6,962,373.61 E 11,754,939.14  
 C.C. N 6,960,367.71 E 11,752,900.51  
 Back = S 88° 29' 07.54" E  
 Ahead = S 44° 32' 11.2" E  
 Chord Bear = S 66° 30' 39.33" E

Course from PT TRIAL04\_3 to TRIAL045 S 44° 32' 11.2" E Dist 463.56

Point TRIAL045 N 6,962,043.18 E 11,755,264.26 Sta 41+44.21

Ending chain TRIAL04 description

## Edmonston Drive / Huddersfeld Way

Posted Speed 25 MPH  
 From Sta.100+00.00 to Sta.107+97.75

Beginning chain EDMONSTON description  
 Feature: - 25 Scale Baselines

Point EDMONSTON1 N 6,962,845.06 E 11,752,625.24 Sta 100+00.00

Course from EDMONSTON1 to EDMONSTON3 N 1° 52' 50.87" E Dist 586.70

Point EDMONSTON3 N 6,963,431.44 E 11,752,644.50 Sta 105+86.70

Course from EDMONSTON3 to EDMONSTON4 N 1° 26' 59.06" E Dist 211.05

Point EDMONSTON4 N 6,963,642.43 E 11,752,649.84 Sta 107+97.75

Ending chain EDMONSTON description

## Tappen Mill Way / Lexington Valley Drive

Posted Speed 25 MPH (Tappen Mill Way)  
 Posted Speed 30 MPH (Lexington Valley Dr.)  
 From Sta.150+00.00 to Sta.155+11.08

Beginning chain TAPPENMILL description  
 Feature: - 25 Scale Baselines

Point TAPPENMILL1 N 6,962,791.79 E 11,753,875.08 Sta 150+00.00

Course from TAPPENMILL1 to TAPPENMILL3 N 20° 27' 11.79" E Dist 224.92

Point TAPPENMILL3 N 6,963,002.53 E 11,753,953.68 Sta 152+24.92

Course from TAPPENMILL3 to TAPPENMILL4 N 23° 24' 05.78" E Dist 286.16

Point TAPPENMILL4 N 6,963,265.15 E 11,754,067.33 Sta 155+11.08

Ending chain TAPPENMILL description

## Sudley Manor Drive (Route 1566)

Posted Speed 45 MPH  
 From Sta.200+00.00 to Sta.209+53.72

Beginning chain SUDMANOR description  
 Feature: - 25 Scale Baselines

### Curve Data

Curve SUDMANOR\_1  
 P.I. Station 204+36.37 N 6,962,394.62 E 11,755,093.32  
 Delta = 19° 43' 57.45" (LT)  
 Degree = 2° 17' 01.00"  
 Tangent = 436.37  
 Length = 864.10  
 Radius = 2,509.00  
 External = 37.66  
 Long Chord = 859.83  
 Mid.Ord. = 37.11  
 P.C. Station 200+00.00 N 6,962,091.01 E 11,754,779.88  
 P.T. Station 208+64.10 N 6,962,786.22 E 11,755,285.85  
 C.C. N 6,963,893.18 E 11,753,034.24  
 Back = N 45° 54' 46.07" E  
 Ahead = N 26° 10' 48.62" E  
 Chord Bear = N 36° 02' 47.34" E

Course from PT SUDMANOR\_1 to SUDMANOR3 N 26° 10' 48.62" E Dist 89.63

Point SUDMANOR3 N 6,962,866.65 E 11,755,325.39 Sta 209+53.72

Ending chain SUDMANOR description

Office Locations  
 8000 Dominion Boulevard  
 Suite 1000  
 Manassas, VA 20108  
 Phone: (703) 719-6471  
 Fax: (703) 719-6471

Design Associates, P.C.  
 Civil Engineering, Surveying, Land Planning,  
 Transportation, Environmental,  
 Right of Way Services

NOVA DISTRICT

6/3/2019

PROJECT PWC 17C17002	SHEET NO. 16
-------------------------	-----------------

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: RDA: Bryan Dreel (703) 334-9302 March 2019  
DESIGN BY: RDA: Rick DeLong, PE (521) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100 April 2019

# Typical Sections

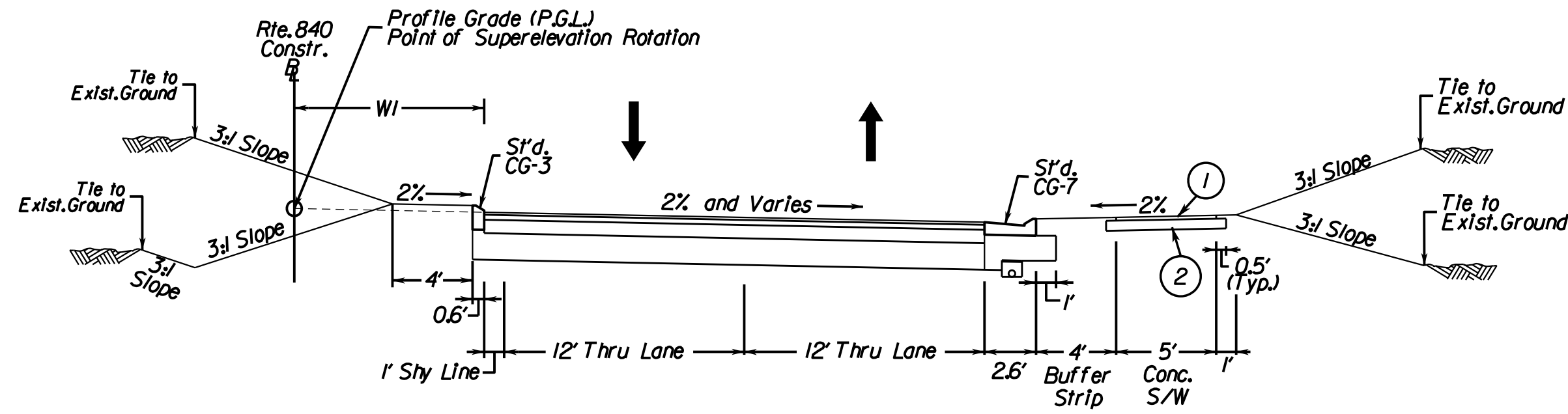
(Not to Scale)

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	840	PWC 17C17002	2A
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Rinker Design Assoc., P.C. Manassas, Virginia (Roadway)				

## University Boulevard, Rte. 840

### 2 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Major Collector Street System (GS-7): V-35 MPH  
(Not to Scale)

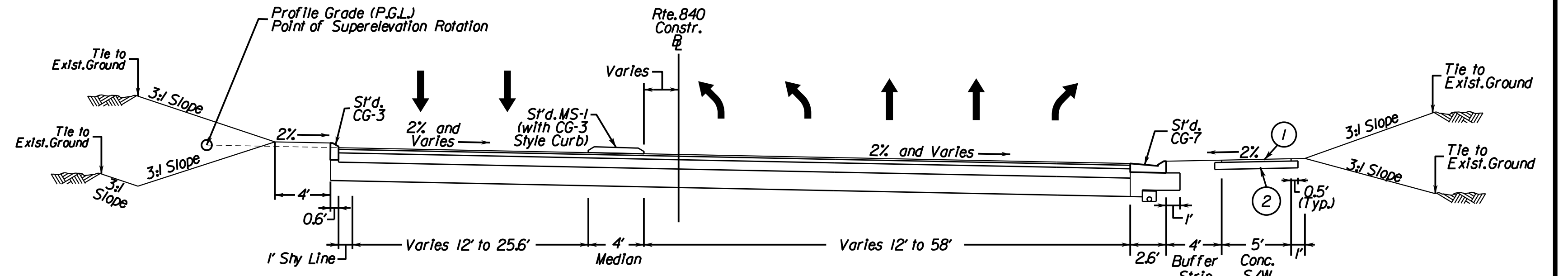


LOCATION	STATION	TO	STATION	WI
University Boulevard	12-05.48		12-98.82	18.5'
	12-98.82		14-83.82	9.5'-18.5'
	14-83.82		16-25.11	9.5'
	17-75.16		22-93.44	9.5'
	27-04.18		30-67.31	9.5'

## University Boulevard, Rte. 840

### 2 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Major Collector Street System (GS-7): V-35 MPH  
(Not to Scale)

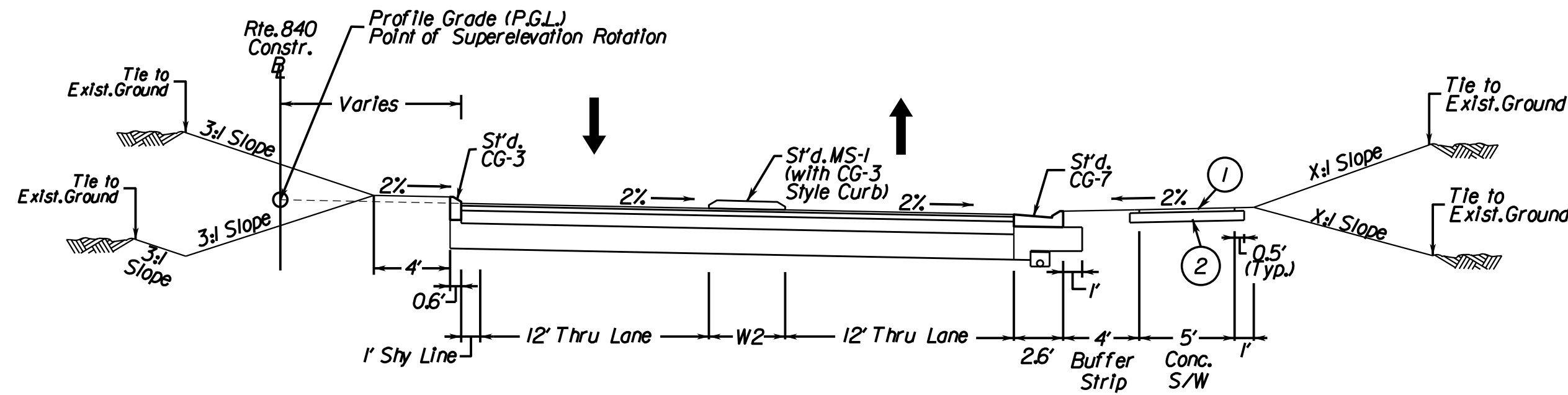


LOCATION	STATION	TO	STATION
University Boulevard	30-67.31		36-84.31

## University Boulevard, Rte. 840

### 2 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Major Collector Street System (GS-7): V-35 MPH  
(Not to Scale)



LOCATION	STATION	TO	STATION	W2
University Boulevard	22-93.44		23-68.78	0'-6"
	23-68.78		26-28.83	6'
	26-28.83		27-04.18	0'-6"

INSET DESIGN LEGEND	
①	4" Class A3 Concrete
②	4" Aggregate Base Material, Type 1 Size 21B Extended 4" beyond concrete.

Rinker Design Associates, P.C.  
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services  
 11011 Discovery Boulevard  
 Manassas, VA 20108  
 Phone: (703) 719-6471  
 Fax: (703) 719-6472  
 www.rinker.com

NOVA DISTRICT

PROJECT MANAGER PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE RDA: Bryan Drea/LS (703) 334-9302-March, 2019  
DESIGN BY RDA: Rick DeLong, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100-April 2019

# Existing Drainage and Sanitary Sewer Descriptions

REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	PROJECT		
	VA.	840	PWC 17C17002		2E

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

1 In Pl. Storm Grate  
Ex. Top=261.17  
Ex. Inv. In=257.92  
Ex. Inv. Out=257.69

16 In Pl. Storm Inlet  
Ex. Rim=246.47  
Ex. Inv. In=234.88  
Ex. Inv. Out=234.66

143  
9 In Pl. Sanitary Manhole  
Ex. Rim=210.48  
Ex. Inv. In=198.77  
Ex. Inv. Out=198.69

2 In Pl. Storm Inlet  
Ex. Rim=261.31  
Ex. Inv. Out=258.37

17 In Pl. Storm Inlet  
Ex. Rim=246.78  
Ex. Inv. In=241.50 (From 18)  
Ex. Inv. In=237.94 (From North)  
Ex. Inv. Out=235.74

143  
10 In Pl. Sanitary Manhole  
Ex. Rim=212.11  
Ex. Inv. In=200.18  
Ex. Inv. Out=200.13

3 In Pl. Storm Inlet  
Ex. Rim=265.06  
Ex. Inv. In=259.80  
Ex. Inv. Out=259.54

18 In Pl. Storm Inlet  
Ex. Rim=247.19  
Ex. Inv. Out=242.35

143  
11 In Pl. Sanitary Manhole  
Ex. Rim=212.46  
Ex. Inv. In=200.50 (From 12)  
Ex. Inv. In=202.76 (From 89)  
Ex. Inv. Out=200.35

4 In Pl. Storm Inlet  
Ex. Rim=263.46  
Ex. Inv. Out=259.93

19 In Pl. End Section  
Ex. Inv.=222.57

143  
176 In Pl. Sanitary Manhole  
Ex. Rim=233.02  
Ex. Inv. In=224.12 (From 164)  
Ex. Inv. In=224.02 (From 175)  
Ex. Inv. Out=223.79

5 In Pl. End Section  
Ex. Inv.=244.50

20 In Pl. Storm Inlet  
Ex. Rim=227.29  
Ex. Inv. In=222.61  
Ex. Inv. Out=222.23

143  
178 In Pl. Sanitary Manhole  
Ex. Rim=234.86  
Ex. Inv. In=222.49 (From 176)  
Ex. Inv. In=222.46 (From 177)  
Ex. Inv. Out=222.19

6 In Pl. Storm Inlet  
Ex. Rim=253.48  
Ex. Inv. Out=248.83

21 In Pl. Storm Inlet  
Ex. Rim=227.34  
Ex. Inv. In=223.49  
Ex. Inv. Out=223.49

7 In Pl. End Wall  
Ex. Top=229.50  
Ex. Inv.=224.59

22 In Pl. Storm Grate  
Ex. Top=227.55  
Ex. Inv. In=223.70 (From 23)  
Ex. Inv. In=223.95 (From West)  
Ex. Inv. Out=223.52

8 In Pl. Storm Inlet  
Ex. Rim=243.19  
Ex. Inv. In=225.25  
Ex. Inv. Out=224.80

23 In Pl. Storm Inlet  
Ex. Rim=229.02  
Ex. Inv. In=224.23  
Ex. Inv. Out=224.18

9 In Pl. Storm Inlet  
Ex. Rim=238.32  
Ex. Inv. In=226.72 (From 10)  
Ex. Inv. In=226.94 (From 15)  
Ex. Inv. Out=226.16

24 In Pl. Storm Inlet  
Ex. Rim=229.33  
Ex. Inv. Out=225.10

10 In Pl. Storm Inlet  
Ex. Rim=245.27  
Ex. Inv. In=233.10 (From 11)  
Ex. Inv. In=234.03 (From 16)  
Ex. Inv. Out=232.79

11 In Pl. Storm Inlet  
Ex. Rim=243.02  
Ex. Inv. In=234.03  
Ex. Inv. Out=233.71

12 In Pl. Storm Inlet  
Ex. Rim=243.22  
Ex. Inv. In=235.24 (From 13)  
Ex. Inv. In=234.79 (From South)  
Ex. Inv. Out=234.23

13 In Pl. Storm Inlet  
Ex. Rim=245.01  
Ex. Inv. In=240.66  
Ex. Inv. Out=237.13

14 In Pl. End Section  
Ex. Inv.=241.81

15 In Pl. Storm Inlet  
Ex. Rim=232.91  
Ex. Inv. In=227.95 (From North)  
Ex. Inv. In=227.96 (From East)  
Ex. Inv. Out=227.17

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Civil Engineering, Surveying, Land Planning,  
Transportation, Environmental,  
Right of Way Services

NOVA DISTRICT



PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: RDA: Bryan Dreelin LS (703) 334-9302 March 2019  
DESIGN BY: RDA: Rick DeLong PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100 April 2019

REVISED	STATE		PROJECT	SHEET NO.
	VA.	ROUTE		
	VA.	840	PWC 17C17002	3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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NOVA DISTRICT

### Roadway Design Legend

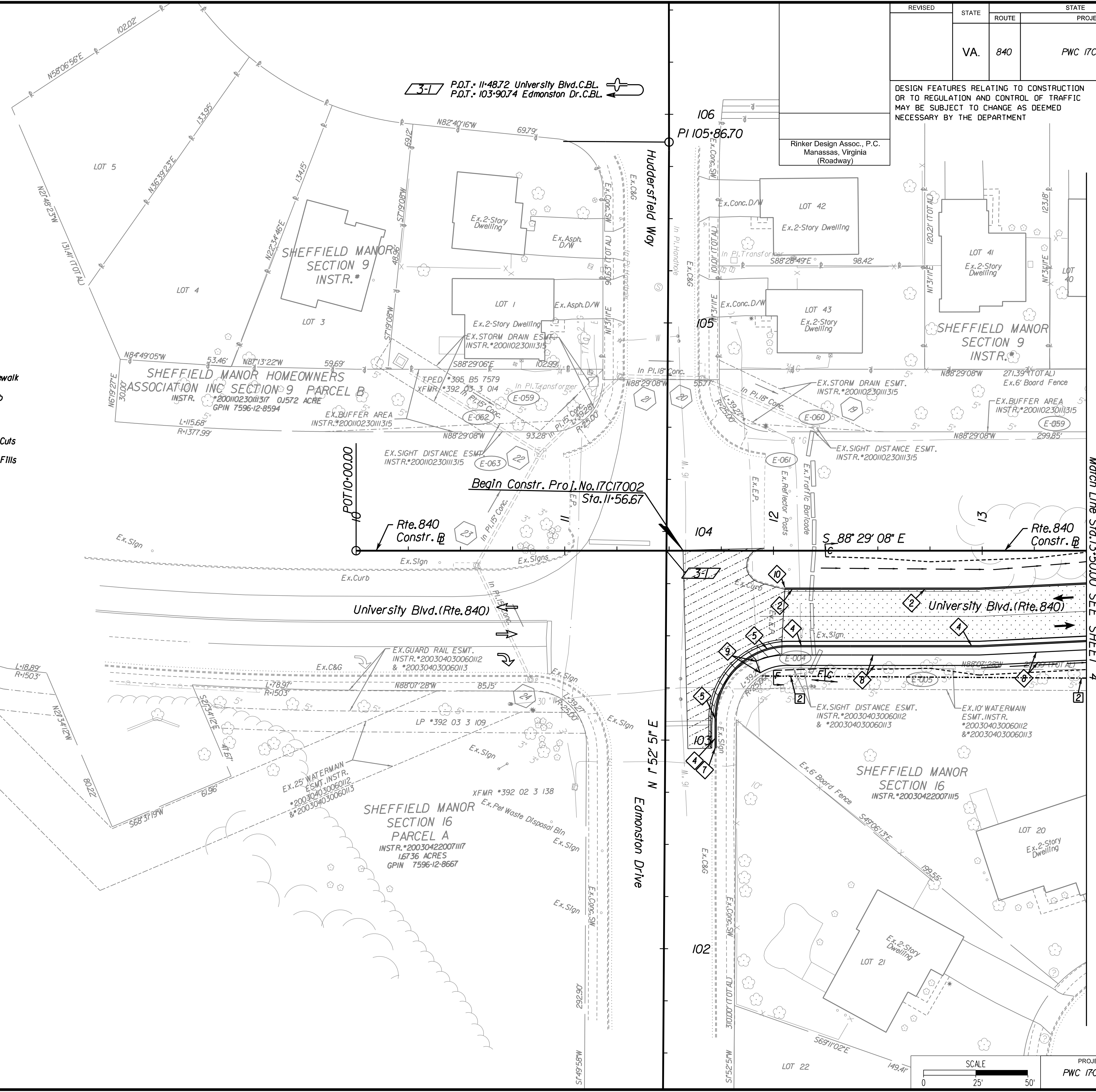
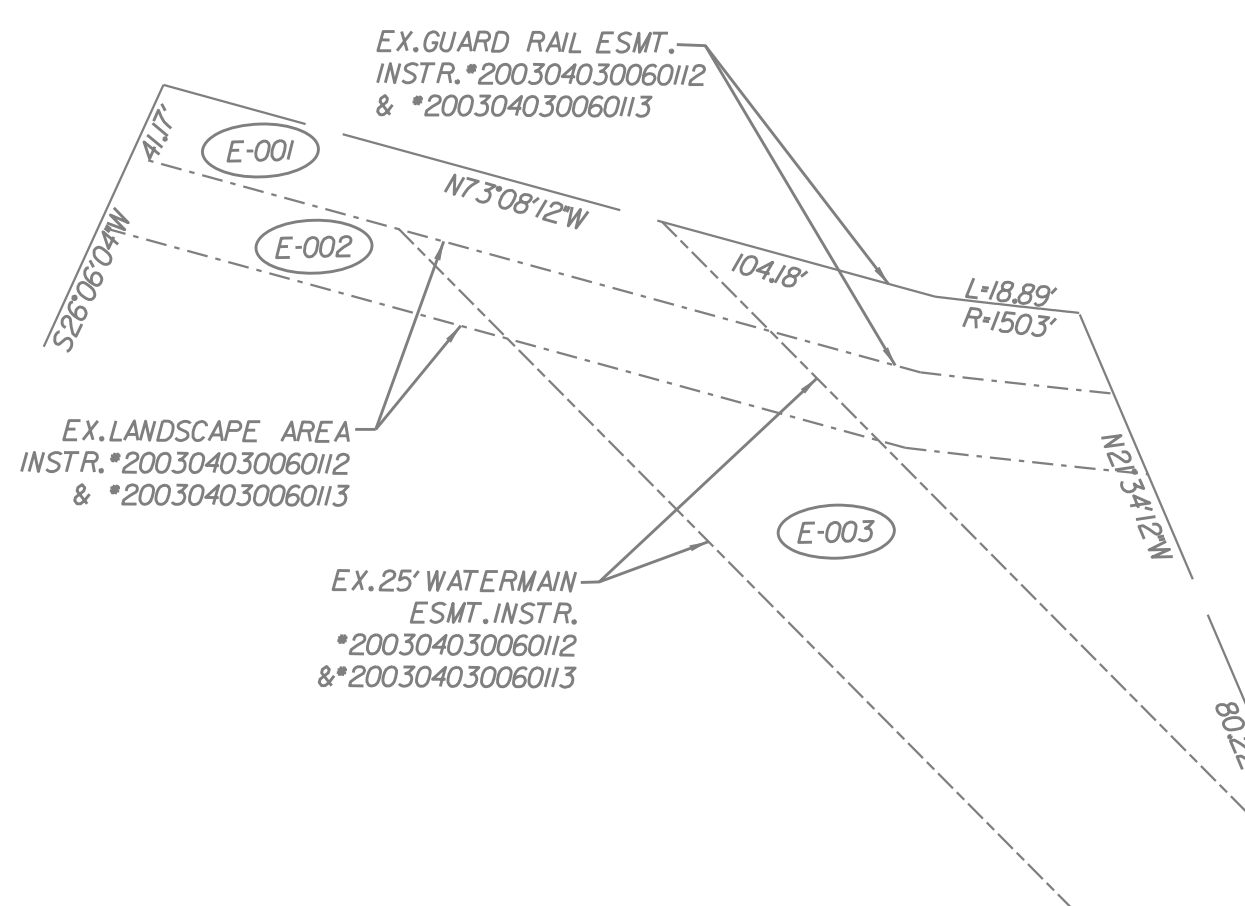
- 1 - Denotes S'd. MS-1 Req'd.
- 2 - Denotes S'd. CG-3 Req'd.
- 3 - Denotes S'd. Radial CG-3 Req'd.
- 4 - Denotes S'd. CG-7 Req'd.
- 5 - Denotes S'd. Radial CG-7 Req'd.
- 6 - Denotes S'd. CG-12, Type B Req'd.
- 7 - Denotes Tie to Existing Curb & Gutter
- 8 - Denotes 5' Sidewalk
- 9 - Denotes Tie to Existing Sidewalk
- 10 - Denotes Tie to Existing Curb
- 11 - Denotes S'd. MS-2 Req'd.
- C - Denotes Construction Limits In Cuts
- F - Denotes Construction Limits In Fills

### PAVEMENT LEGEND

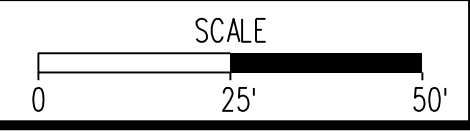
- Full-Depth Pavement
- Demolition of Pavement
- Mill and Variable Depth Overlay

### R/W LEGEND

- Denotes Prop. Permanent Storm Drainage Easement
- Denotes Prop. Temporary Constr. Easement for Roadway



Match Line Sta. 13+5000 SEE SHEET 4



PROJECT	SHEET NO.
PWC 17C17002	3

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

PROJECT MANAGER: PWC001-Gladis Arbolledo (703) 792-5276  
SURVEYED BY, DATE: BDA-Ryan Decell LS (703) 334-9302; March 2019  
DESIGN BY: BDA-Blck DeLoag, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accunark (703) 378-0100; April 2019

# Profile, Rte. 840 (Sta. 10+00 to Sta. 13+50)

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	840	PWC 17C17002	3A

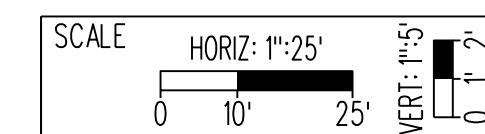
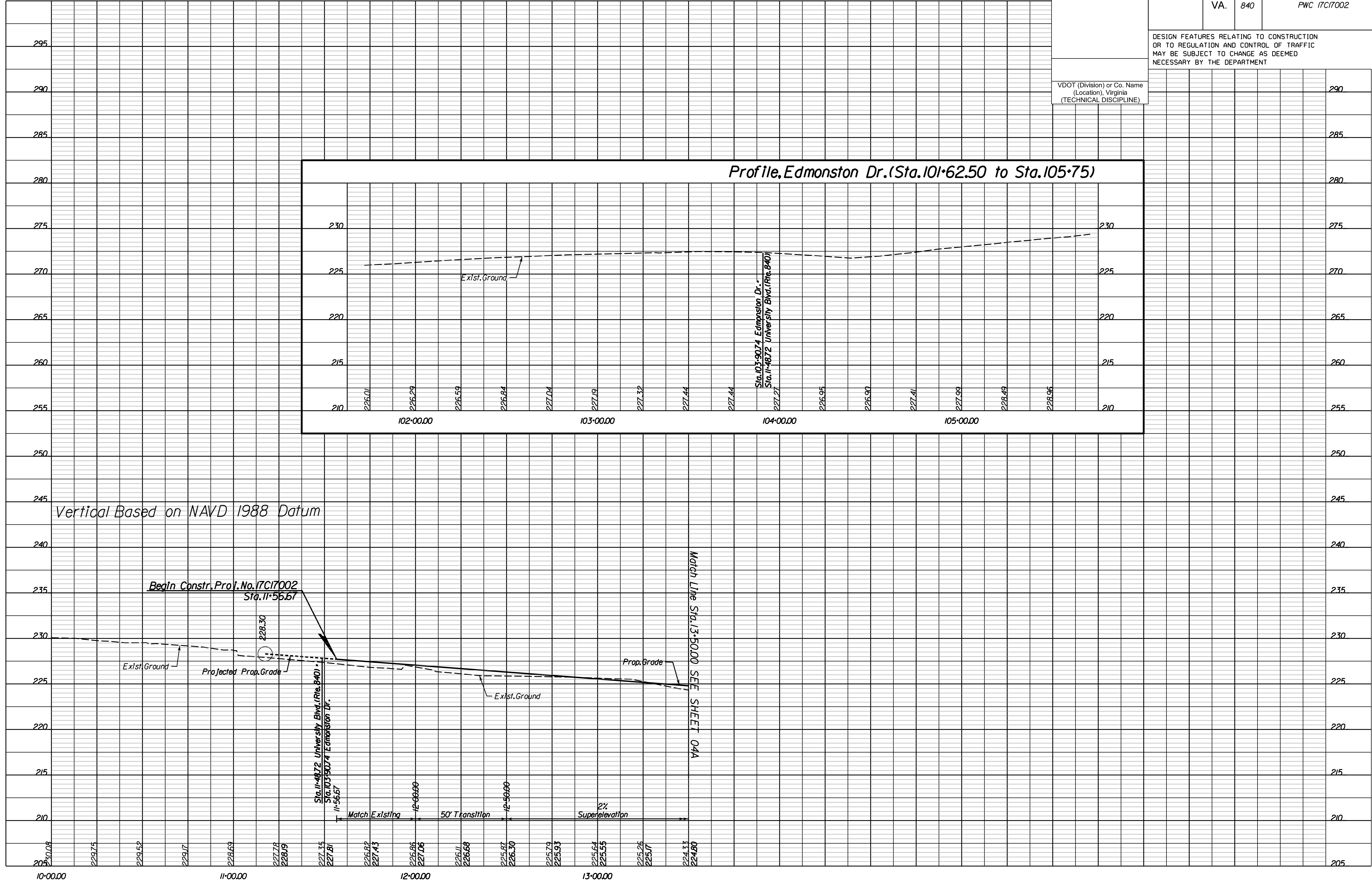
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE))

NOVA DISTRICT  
Cada Rinker  
Design Associates, P.C.  
Civil Engineering, Surveying, Land Planning, Transportation, Environmental

NOVA DISTRICT

6/3/2019



PROJECT  
PWC 17C17002

SHEET NO.  
3A

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

PROJECT MANAGER: *PWC DOT: Gladis Arboleda (703) 792-5276*  
SURVEYED BY, DATE: *RDA: Bryan Dreel (703) 334-9302 March 2019*  
DESIGN BY: *RDA: Rick DeLong, PE (571) 719-6471*  
SUBSURFACE UTILITY BY, DATE: *Accurmark (703) 378-0100 April 2019*

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	4

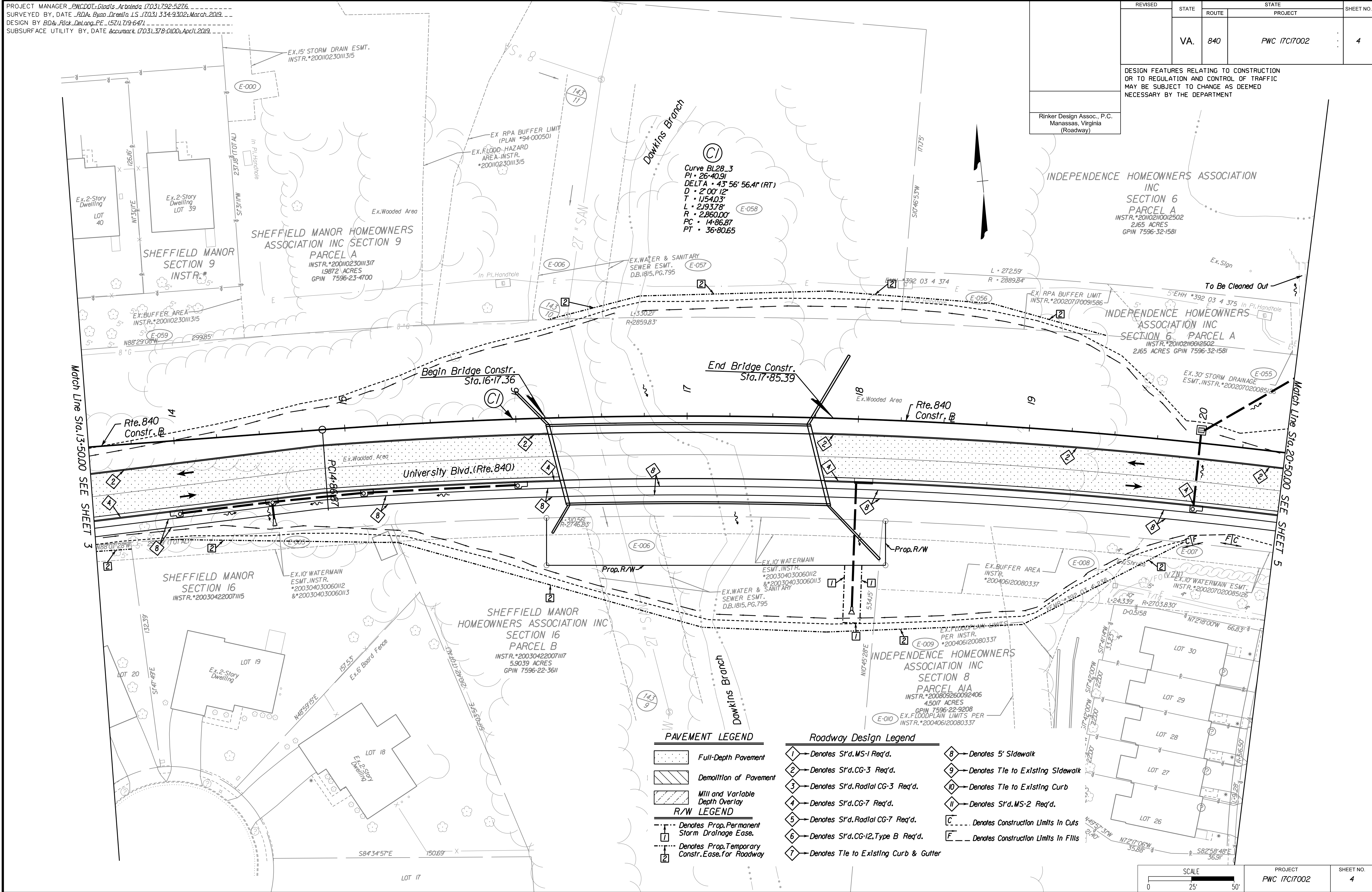
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

Office Locations  
Rinker Design Associates, P.C.  
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, and Construction Management  
11000 Sunrise Valley Drive, Suite 200  
Manassas, VA 20108  
Tel: (703) 719-6471  
Fax: (703) 719-6472  
www.rinker.com

NOVA DISTRICT

6/3/2019



PAVEMENT LEGEND

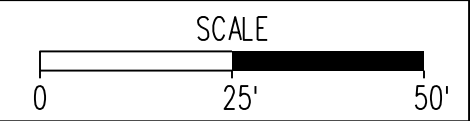
- Full-Depth Pavement
- Demolition of Pavement
- Mill and Variable Depth Overlay

R/W LEGEND

- Denotes Prop. Permanent Storm Drainage Easement.
- Denotes Prop. Temporary Constr. Easement for Roadway

Roadway Design Legend

- Denotes S1'd. MS-1 Req'd.
- Denotes S1'd. CG-3 Req'd.
- Denotes S1'd. Radial CG-3 Req'd.
- Denotes S1'd. CG-7 Req'd.
- Denotes S1'd. Radial CG-7 Req'd.
- Denotes S1'd. CG-12, Type B Req'd.
- Denotes Tie to Existing Curb & Gutter
- Denotes 5' Sidewalk
- Denotes Tie to Existing Sidewalk
- Denotes Tie to Existing Curb
- Denotes S1'd. MS-2 Req'd.
- Denotes Construction Limits in Cuts
- Denotes Construction Limits in Fills



PROJECT	PWC 17C17002	SHEET NO.	4
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PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.



PROJECT MANAGER: PWC DOT, Gladis Arbolledo (703) 792-5276  
SURVEYED BY, DATE: BDA, Ryan Decella, LS (703) 334-9302, March 2019  
DESIGN BY: BDA, Blck DeLoag, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accurark (703) 378-0100, April 2019

# Profile, Rte. 840 (Sta. 13+50 to Sta. 20+50)

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
	VA.	840		PWC 17C17002	4A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE))

265

260

255

250

245

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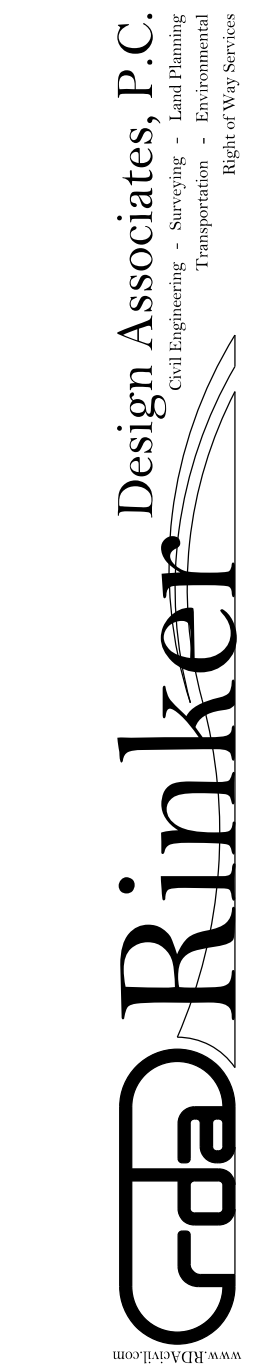
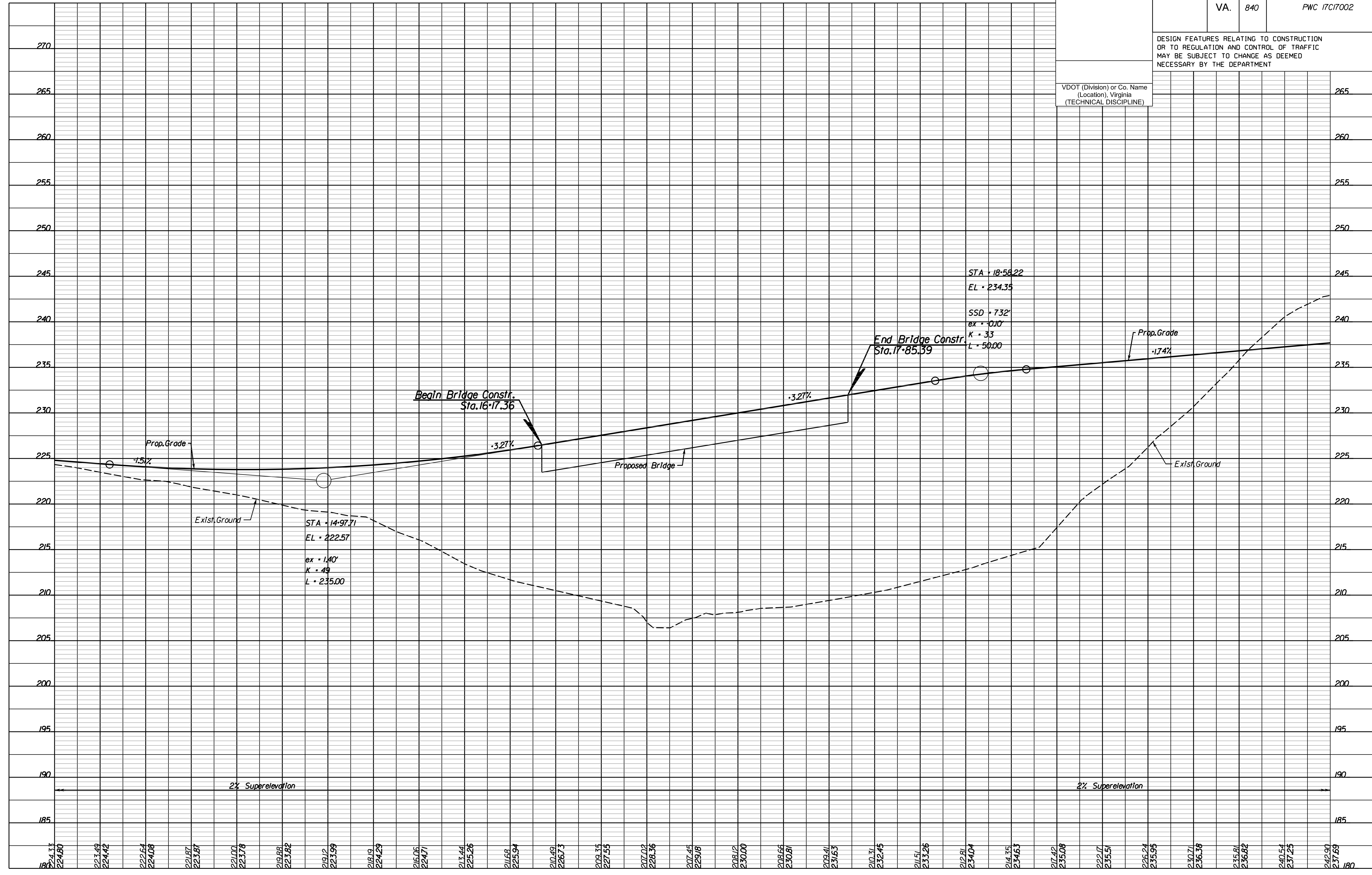
205

200

195

190

185



NOVA DISTRICT

SCALE: HORIZ: 1"=25' VERT: 1"=5'

PROJECT: PWC 17C17002 SHEET NO. 4A

PRELIMINARY SUBMISSION THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

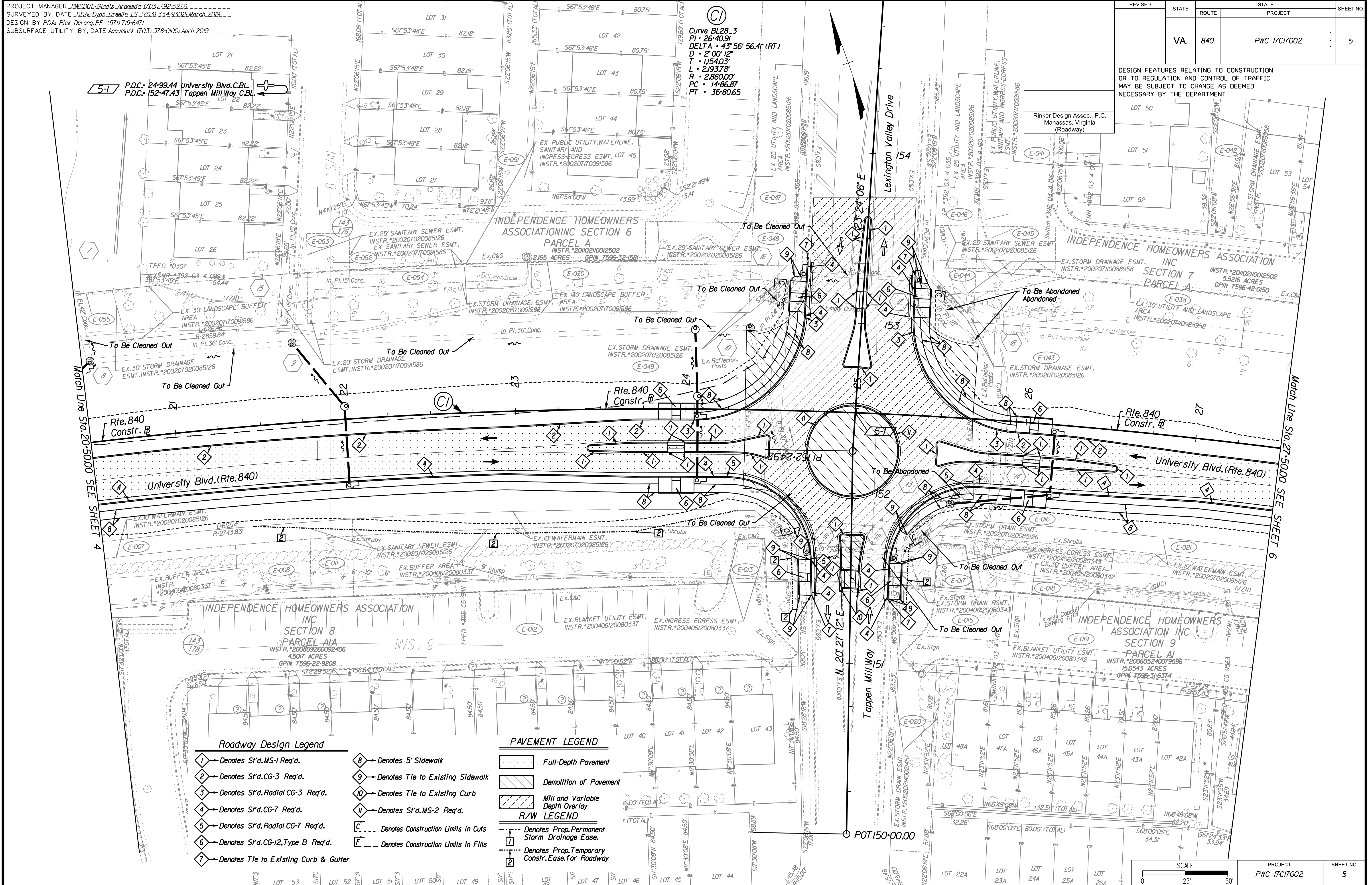


PROJECT MANAGER: ENCDOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: RDA: Bryan Dreelin LS (703) 334-9302; March, 2019  
DESIGN BY: RDA: Rick DeLong, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; April, 2019

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	5

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)



P.O.C.: 24-99.44 University Blvd.C.B.L.  
P.O.C.: 152-47.43 Tappen Mill Way C.B.L.

Curve BL28.3  
PI = 26+40.91  
DELTA = 43° 56' 56.4" (RT)  
D = 2' 00" 12"  
T = 1154.03'  
L = 2193.78'  
R = 2.860.00'  
PC = 14+86.87  
PT = 36+80.65

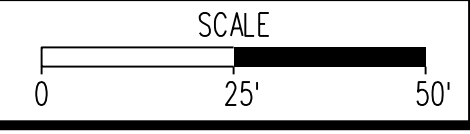
- Roadway Design Legend**
- ① Denotes S'r.d.MS-1 Req'd.
  - ② Denotes S'r.d.CG-3 Req'd.
  - ③ Denotes S'r.d.Radial CG-3 Req'd.
  - ④ Denotes S'r.d.CG-7 Req'd.
  - ⑤ Denotes S'r.d.Radial CG-7 Req'd.
  - ⑥ Denotes S'r.d.CG-12, Type B Req'd.
  - ⑦ Denotes Tile to Existing Curb & Gutter
  - ⑧ Denotes 5' Sidewalk
  - ⑨ Denotes Tile to Existing Sidewalk
  - ⑩ Denotes Tile to Existing Curb
  - ⑪ Denotes S'r.d.MS-2 Req'd.
  - Ⓒ Denotes Construction Limits In Cuts
  - Ⓕ Denotes Construction Limits In Fills

- PAVEMENT LEGEND**
- Full-Depth Pavement
  - Demolition of Pavement
  - Mill and Variable Depth Overlay

- R/W LEGEND**
- Denotes Prop. Permanent Storm Drainage Easement
  - Denotes Prop. Temporary Constr. Easement for Roadway

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.



PROJECT	SHEET NO.
PWC 17C17002	5

NOVA DISTRICT  
Cda Rinker  
Design Associates, P.C.  
Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Tyngsboro, VA; Washington, DC  
Services: Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Planning, and Construction Management  
Right of Way Services

PROJECT MANAGER: PWC001, Gladis Arbolledo (703) 792-5276  
SURVEYED BY, DATE: BDA, Ryan Decell, LS (703) 334-9302, March 2019  
DESIGN BY: BDA, Bick DeLoag, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accumar, (703) 378-0100, April 2019

# Profile, Rte. 840 (Sta. 20+50 to Sta. 27+50)

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	840	PWC 17C17002	5A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE))

305

300

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255

250

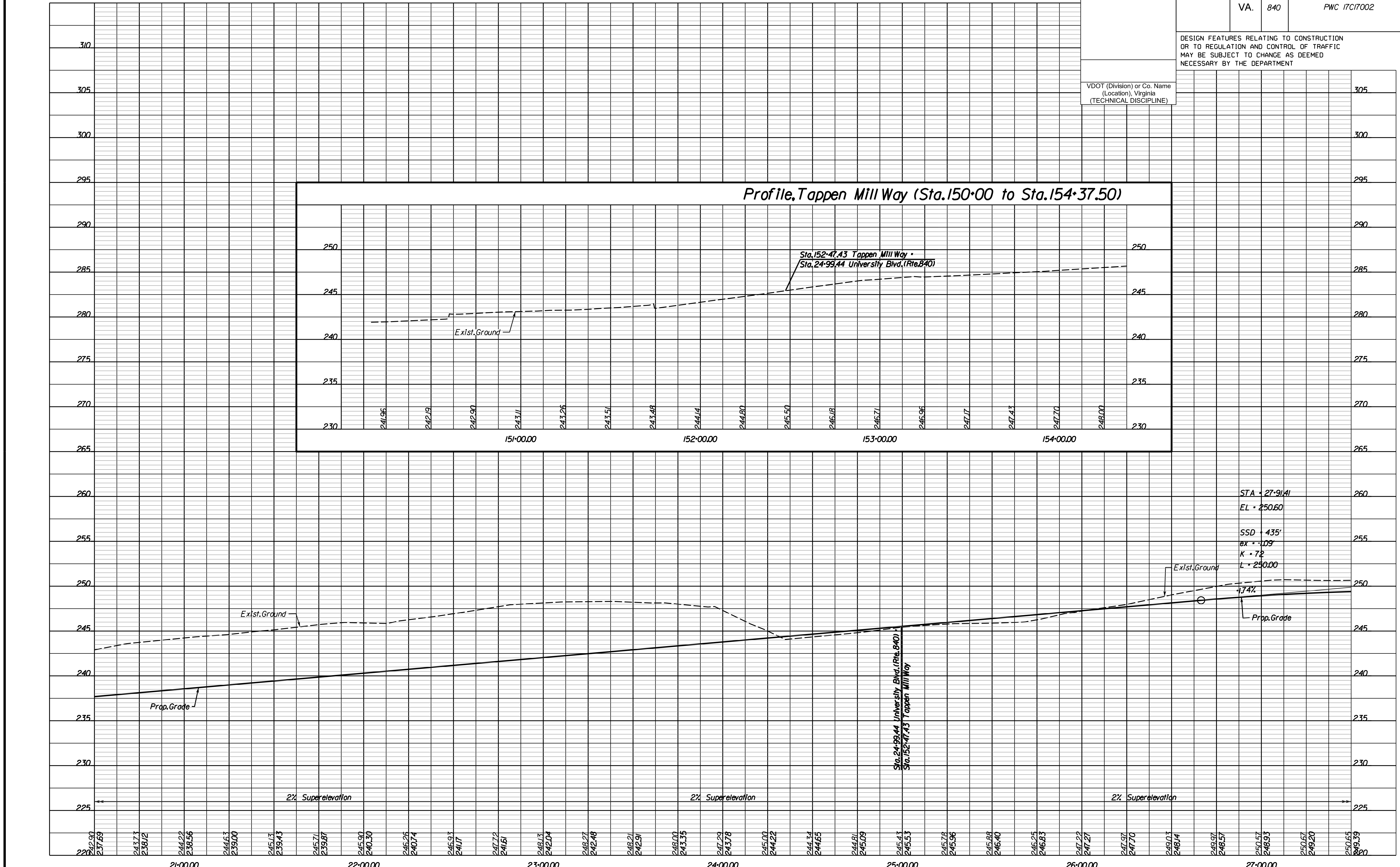
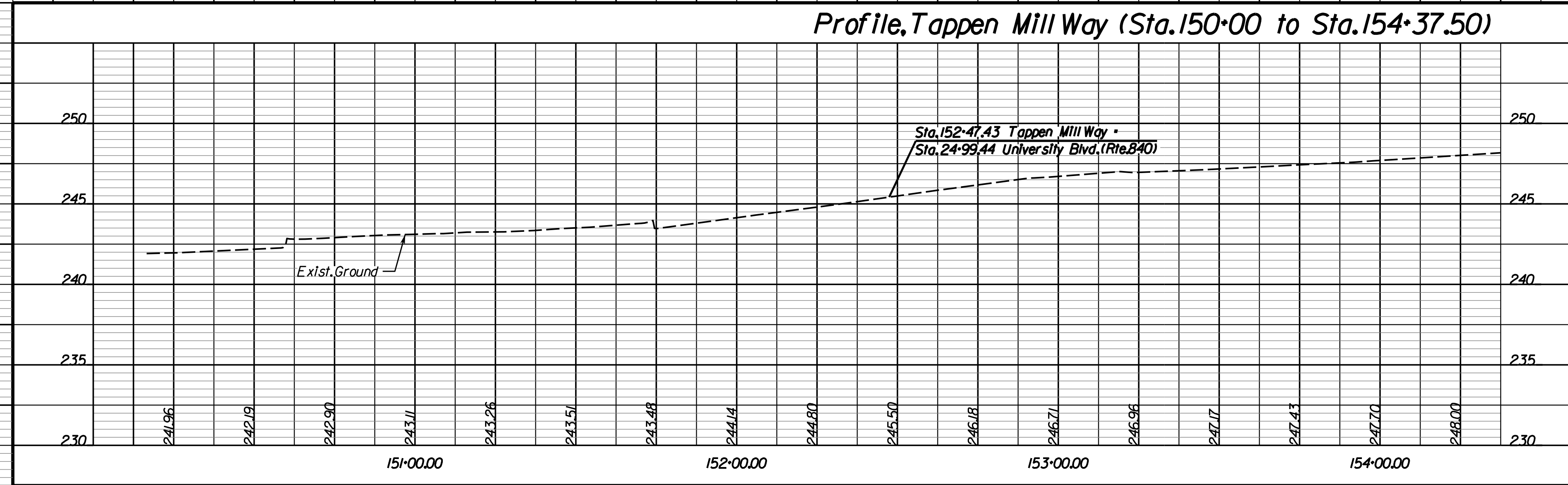
245

240

235

230

225



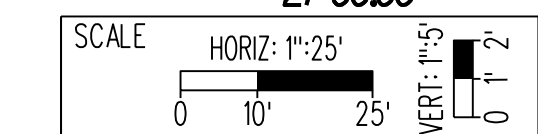
STA + 27+91.41  
EL + 250.60  
SSD + 435'  
ex + 1.09  
K + 72  
L + 240.00

1.74%  
Prop. Grade

2% Super-elevation

2% Super-elevation

2% Super-elevation

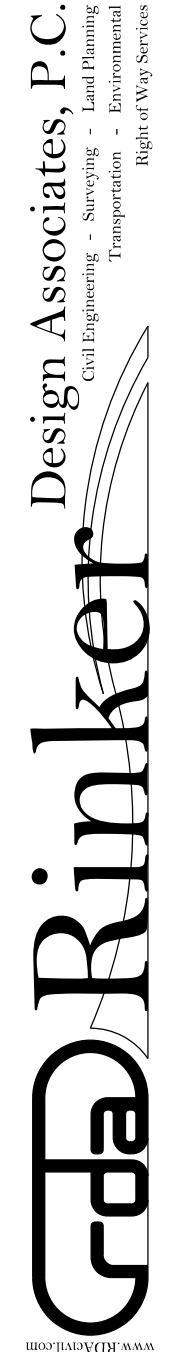


PROJECT PWC 17C17002

SHEET NO. 5A

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.



NOVA DISTRICT



PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: RDA: Bryan Drea (703) 334-9302, March 2019  
DESIGN BY: RDA: Rick DeLong, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, April 2019

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	6

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

(C1)  
Curve BL28.3  
PI = 26+40.91  
DELTA = 43° 56' 56.4" (RT)  
D = 2' 00" 12"  
T = 1154.03'  
L = 2193.78'  
R = 2860.00'  
PC = 14+86.87  
PT = 36+80.65

INDEPENDENCE HOMEOWNERS ASSOCIATION  
INC  
SECTION 7  
PARCEL A  
INSTR. #20102110012502  
5.5216 ACRES  
GPIN 7596-42-0150

UNIVERSITY VILLAGE COMMUNITY ASSOCIATION  
UNIV. VILL. LANDBAY A PARCEL 1  
INSTR. #201301170006436  
0.8422 ACRE GPIN 7596-42-3612

INDEPENDENCE HOMEOWNERS ASSOCIATION  
INC  
SECTION 9  
PARCEL A1  
INSTR. #200605240079596  
15.0543 ACRES  
GPIN 7596-31-6374

**Roadway Design Legend**

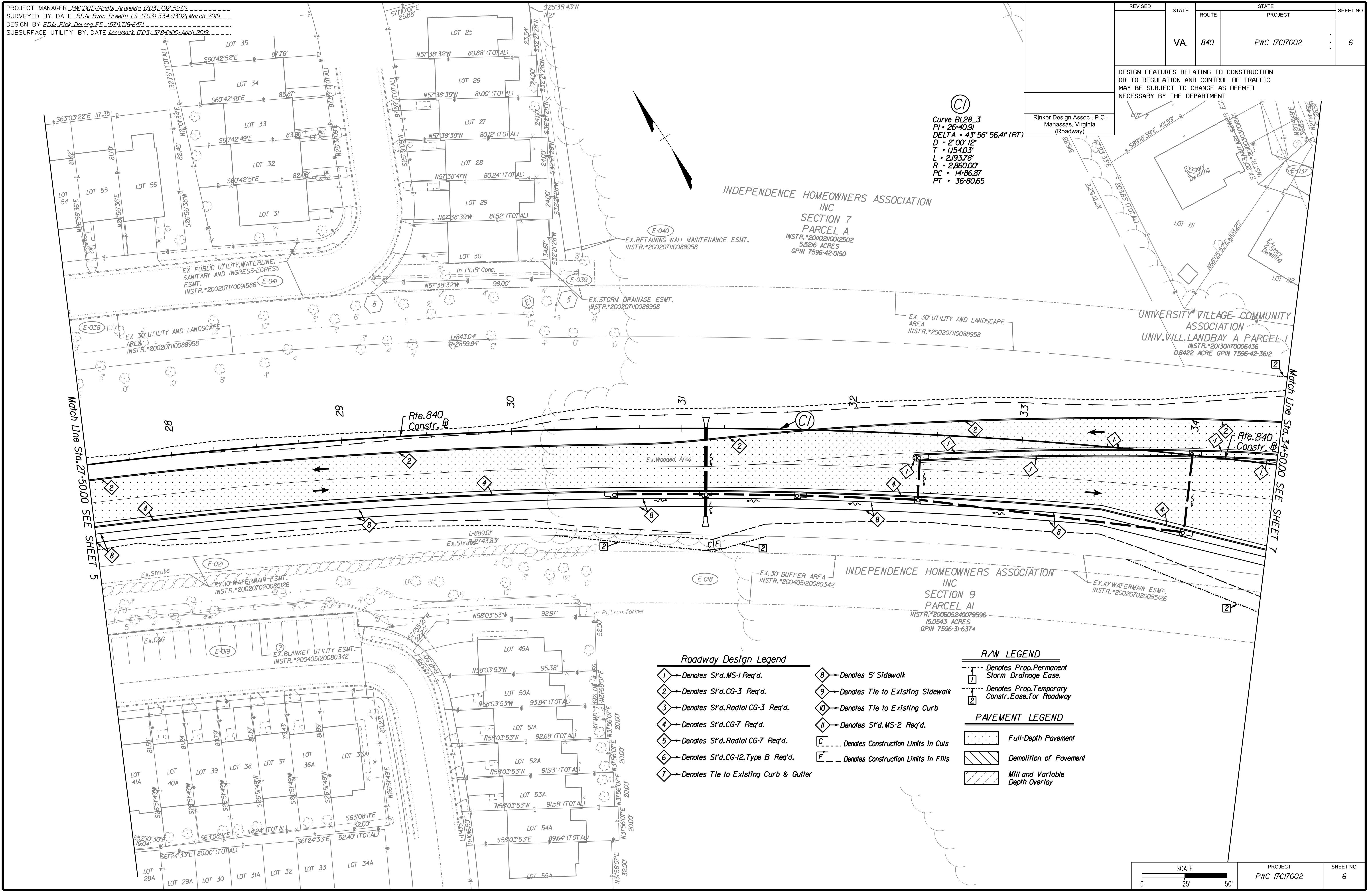
- 1 - Denotes St'd. MS-1 Req'd.
- 2 - Denotes St'd. CG-3 Req'd.
- 3 - Denotes St'd. Radial CG-3 Req'd.
- 4 - Denotes St'd. CG-7 Req'd.
- 5 - Denotes St'd. Radial CG-7 Req'd.
- 6 - Denotes St'd. CG-12, Type B Req'd.
- 7 - Denotes Tie to Existing Curb & Gutter
- 8 - Denotes 5' Sidewalk
- 9 - Denotes Tie to Existing Sidewalk
- 10 - Denotes Tie to Existing Curb
- 11 - Denotes St'd. MS-2 Req'd.

**R/W LEGEND**

- 1 - Denotes Prop. Permanent Storm Drainage Ease.
- 2 - Denotes Prop. Temporary Constr. Ease for Roadway

**PAVEMENT LEGEND**

- Full-Depth Pavement
- Demolition of Pavement
- M11 and Variable Depth Overlay



SCALE 0 25' 50'	PROJECT PWC 17C17002	SHEET NO. 6
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PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

Cda Rinker  
Design Associates, P.C.  
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right-of-Way Services

NOVA DISTRICT

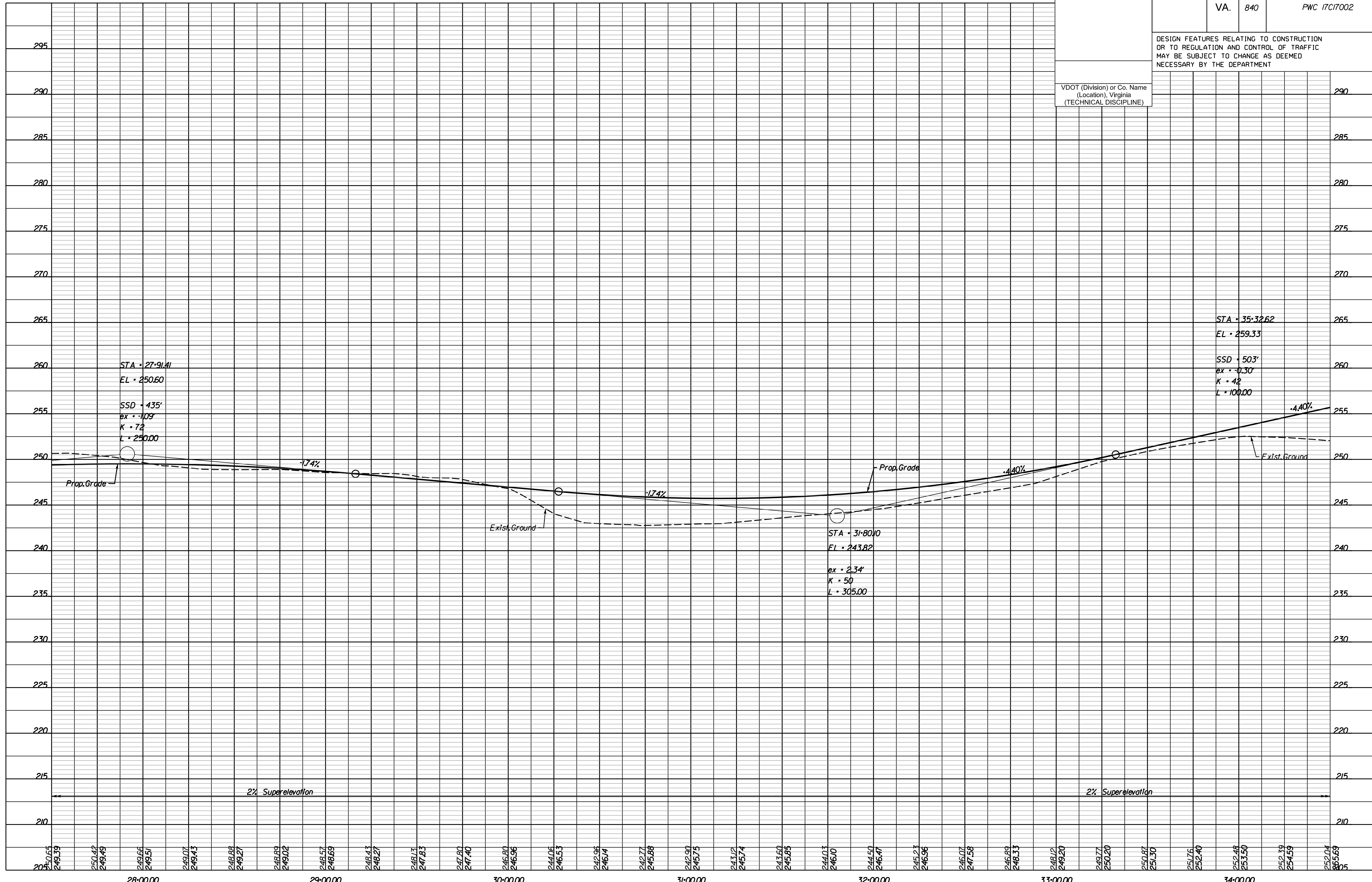
PROJECT MANAGER: PWC001-Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: BD& Ryan Decell LS (703) 334-9302; March 2019  
DESIGN BY: RDA: Bick DeLoag PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accumar (703) 378-0100; April 2019

# Profile, Rte. 840 (Sta. 27+50 to Sta. 34+50)

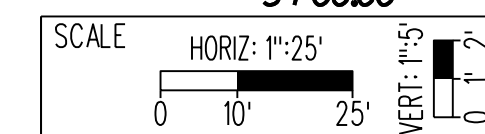
REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	840	PWC 17C17002	6A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE))



NOVA DISTRICT



PROJECT: PWC 17C17002

SHEET NO.: 6A

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.



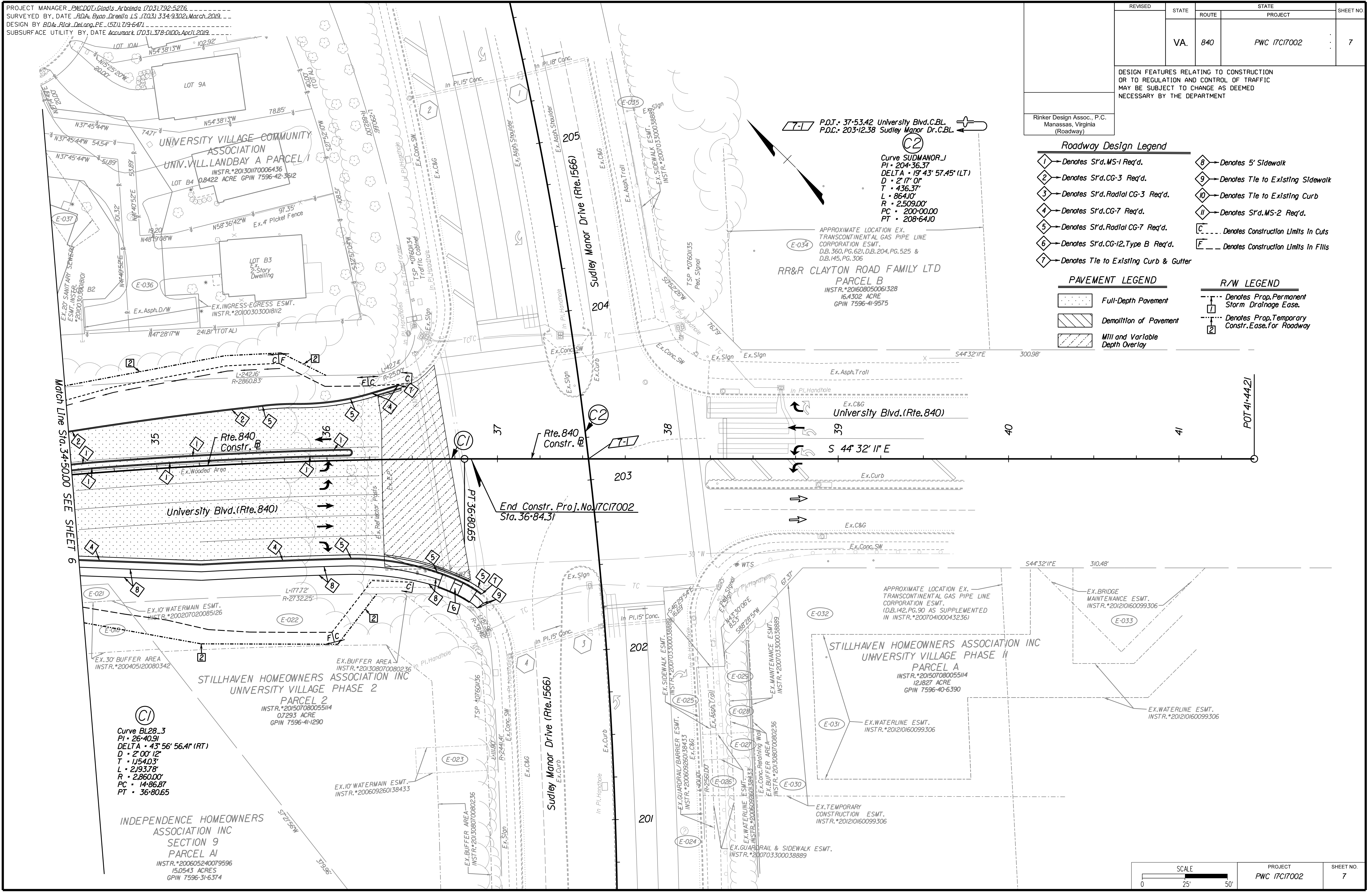
PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: RDA: Ryan Drealla LS (703) 334-9302 March 2019  
DESIGN BY: RDA: Rick DeLong PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100 April 2019

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
	VA.	840		PWC 17C17002	7

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

- Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)
- Roadway Design Legend**
- 1 - Denotes S'd. MS-1 Req'd.
  - 2 - Denotes S'd. CG-3 Req'd.
  - 3 - Denotes S'd. Radial CG-3 Req'd.
  - 4 - Denotes S'd. CG-7 Req'd.
  - 5 - Denotes S'd. Radial CG-7 Req'd.
  - 6 - Denotes S'd. CG-12, Type B Req'd.
  - 7 - Denotes Tie to Existing Curb & Gutter
  - 8 - Denotes 5' Sidewalk
  - 9 - Denotes Tie to Existing Sidewalk
  - 10 - Denotes Tie to Existing Curb
  - 11 - Denotes S'd. MS-2 Req'd.
  - C - Denotes Construction Limits In Cuts
  - F - Denotes Construction Limits In Fills

- PAVEMENT LEGEND**
- [Pattern] Full-Depth Pavement
  - [Pattern] Demolition of Pavement
  - [Pattern] Mill and Variable Depth Overlay
- R/W LEGEND**
- [Symbol] Denotes Prop. Permanent Storm Drainage EASE.
  - [Symbol] Denotes Prop. Temporary Constr. EASE for Roadway



Cda Rinker Design Associates, P.C.

NOVA DISTRICT

6/3/2019

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

SCALE 0 25' 50'	PROJECT PWC 17C17002	SHEET NO. 7
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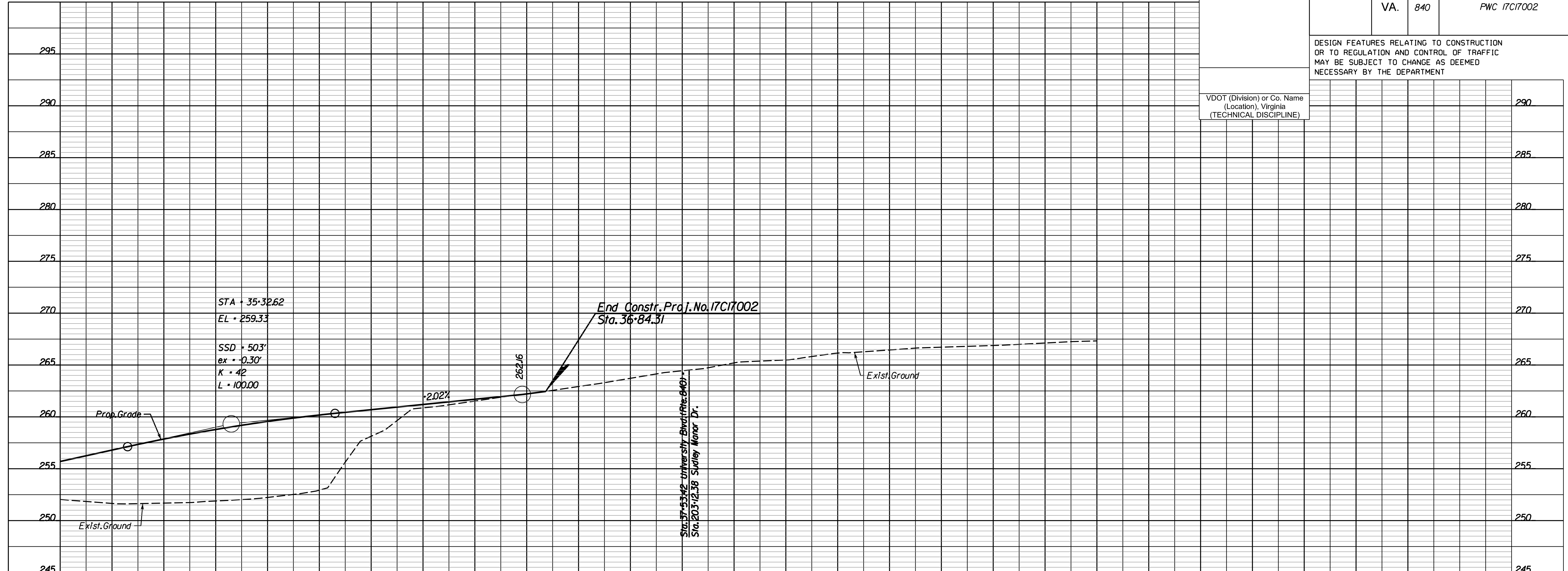
PROJECT MANAGER: PWC001, Gladis, Arboleda (703) 792-5276  
SURVEYED BY, DATE: BDA, Ryan, Decell (LS (703) 334-9302; March, 2019  
DESIGN BY: BDA, Blck, DeLoag, PE (571) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; April 2019

# Profile, Rte. 840 (Sta. 34+50 to Sta. 41+44.21)

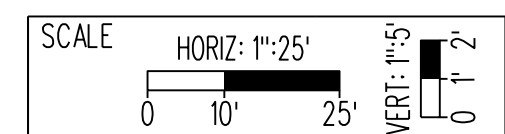
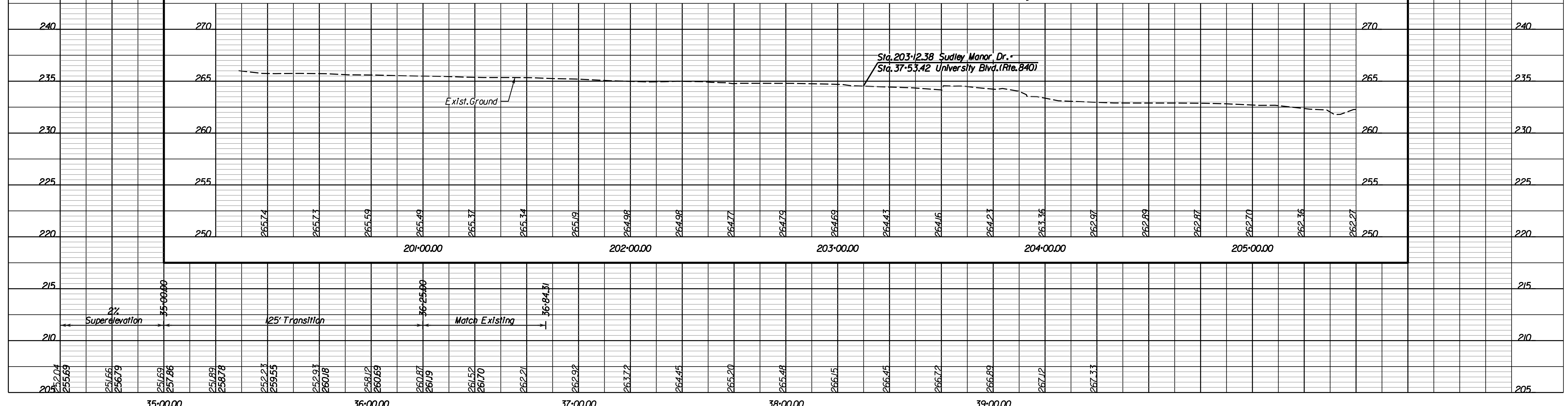
REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	840	PWC 17C17002	7A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE))



## Profile, Sudley Manor Dr. (Sta. 200+00 to Sta. 205+50)



PROJECT: PWC 17C17002 SHEET NO.: 7A

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.



NOVA DISTRICT

PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: RDA: Bryan Drea (703) 334-9302 March 2019  
DESIGN BY: RDA: Rick DeLong, PE (521) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100 April 2019

# Signage and Pavement Marking Plan

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	840	PWC 17C17002	911

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

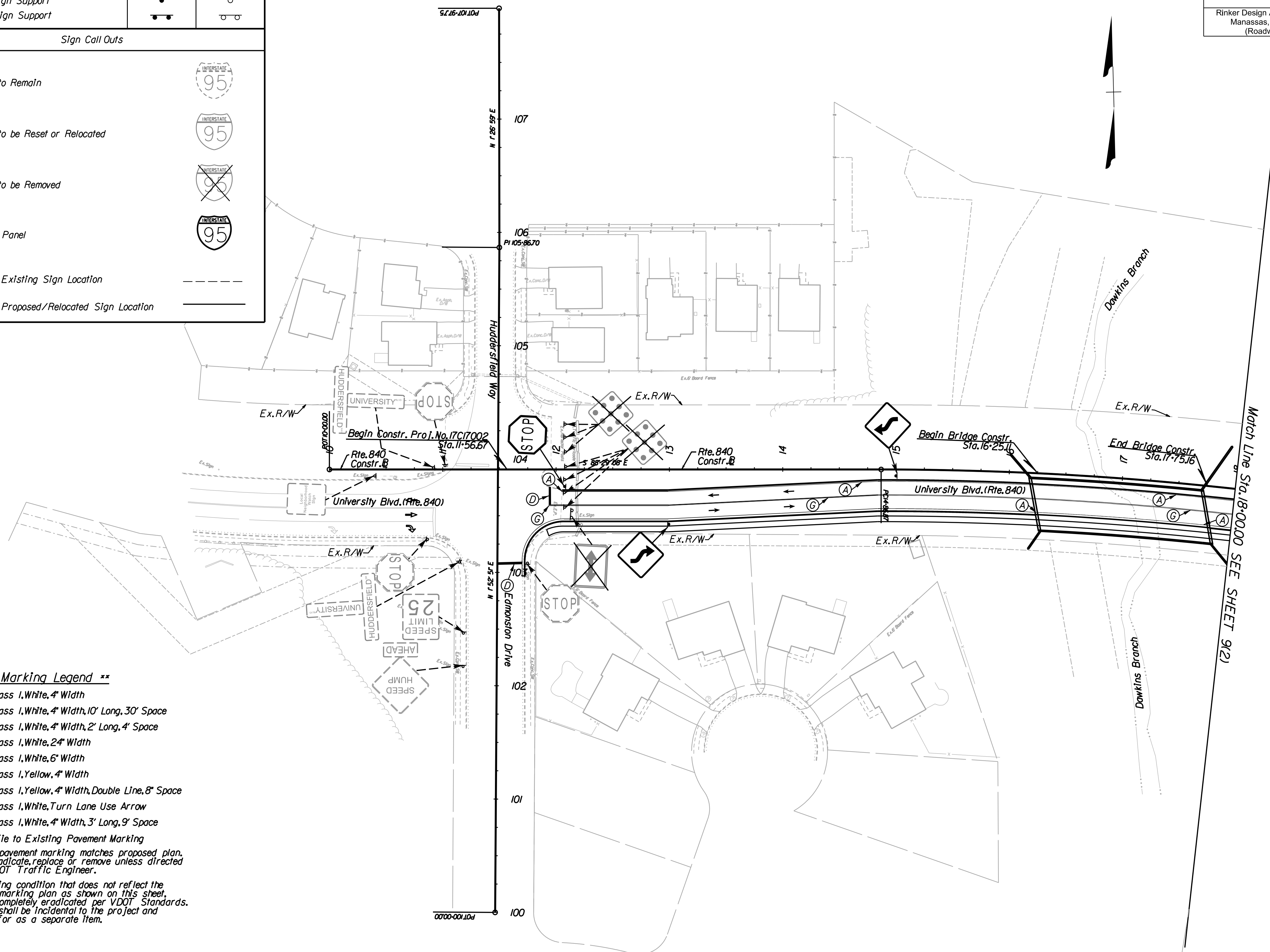
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

Plan Item	Plan Symbol	
	Proposed	Existing
Single Post Sign Support		
Double Post Sign Support		
Sign Call Outs		
Existing Sign to Remain		
Existing Sign to be Reset or Relocated		
Existing Sign to be Removed		
Proposed Sign Panel		
Line Indicating Existing Sign Location	- - - - -	
Line Indicating Proposed/Relocated Sign Location	—————	

NOVA DISTRICT  
Rinker Design Associates, P.C.  
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

NOVA DISTRICT

6/3/2019



- \*\* Pavement Marking Legend \*\***
- (A) Type B, Class 1, White, 4" Width
  - (B) Type B, Class 1, White, 4" Width, 10' Long, 30' Space
  - (C) Type B, Class 1, White, 4" Width, 2' Long, 4' Space
  - (D) Type B, Class 1, White, 2" Width
  - (E) Type B, Class 1, White, 6" Width
  - (F) Type B, Class 1, Yellow, 4" Width
  - (G) Type B, Class 1, Yellow, 4" Width, Double Line, 8" Space
  - (H) Type B, Class 1, White, Turn Lane Use Arrow
  - (I) Type B, Class 1, White, 4" Width, 3' Long, 9' Space
  - (TE) Denotes Tie to Existing Pavement Marking
  - (Ex) Existing pavement marking matches proposed plan. Do not eradicate, replace or remove unless directed by the VDOT Traffic Engineer.
- Note: Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

SCALE 0 50' 100'	PROJECT PWC 17C17002	SHEET NO. 911
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PRELIMINARY SUBMISSION THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.



PROJECT MANAGER\_PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE\_RDA: Bryan Dreelin LS (703) 334-9302-March 2019  
DESIGN BY RDA: Rick DeLong PE (521) 719-6471  
SUBSURFACE UTILITY BY, DATE\_Accumark (703) 378-0100-April 2019

# Signage and Pavement Marking Plan

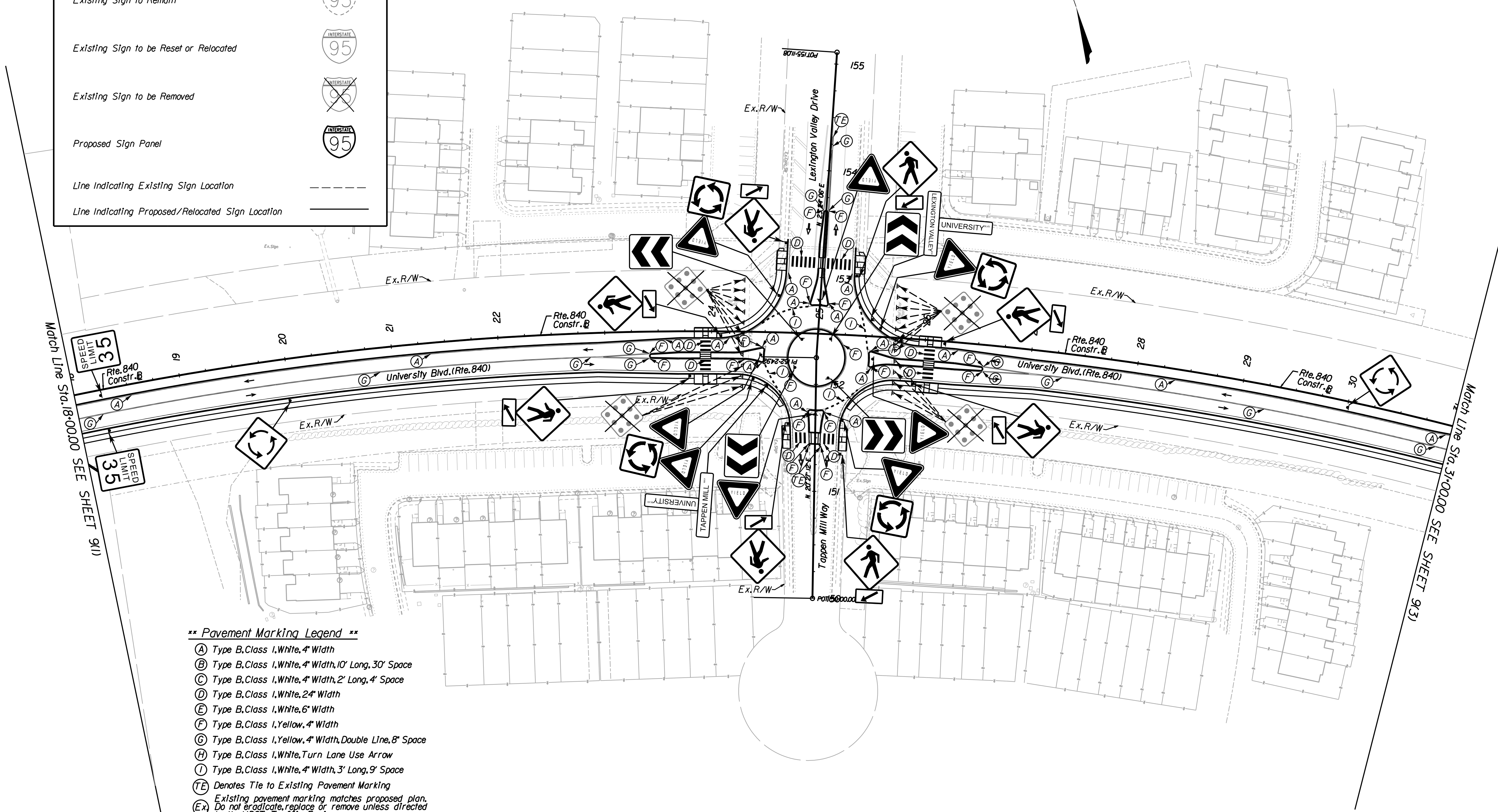
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	9(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)

**Standard Sign Legend**

Plan Item	Plan Symbol	
	Proposed	Existing
Single Post Sign Support		
Double Post Sign Support		
Sign Call Outs		
Existing Sign to Remain		
Existing Sign to be Reset or Relocated		
Existing Sign to be Removed		
Proposed Sign Panel		
Line Indicating Existing Sign Location		
Line Indicating Proposed/Relocated Sign Location		



- \*\* Pavement Marking Legend \*\***
- (A) Type B, Class 1, White, 4" Width
  - (B) Type B, Class 1, White, 4" Width, 10' Long, 30' Space
  - (C) Type B, Class 1, White, 4" Width, 2' Long, 4' Space
  - (D) Type B, Class 1, White, 24" Width
  - (E) Type B, Class 1, White, 6" Width
  - (F) Type B, Class 1, Yellow, 4" Width
  - (G) Type B, Class 1, Yellow, 4" Width, Double Line, 8" Space
  - (H) Type B, Class 1, White, Turn Lane Use Arrow
  - (I) Type B, Class 1, White, 4" Width, 3' Long, 9' Space
  - (TE) Denotes Tie to Existing Pavement Marking
  - (Ex) Existing pavement marking matches proposed plan. Do not eradicate, replace or remove unless directed by the VDOT Traffic Engineer.
- Note: Any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

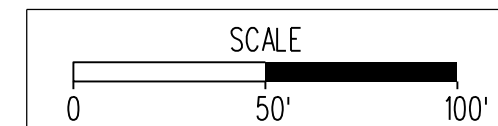
Rinker Design Associates, P.C.  
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

NOVA DISTRICT

6/3/2019

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.



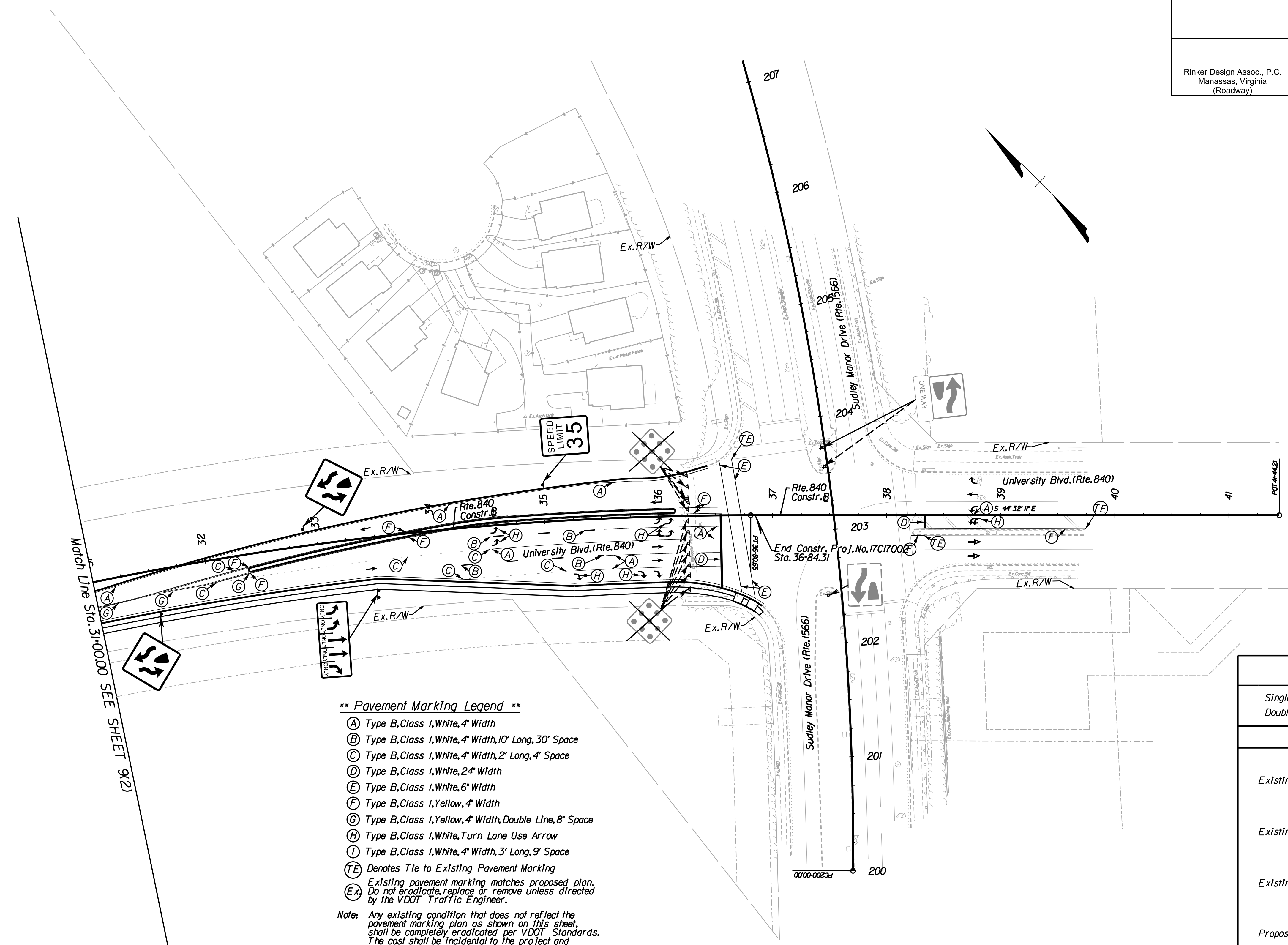
PROJECT	SHEET NO.
PWC 17C17002	9(2)



PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
 SURVEYED BY, DATE: RDA: Bryan Dreelin LS (703) 334-9302 March 2019  
 DESIGN BY: RDA: Rick DeLong PE (521) 719-6471  
 SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100 April 2019

# Signage and Pavement Marking Plan

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	840	PWC 17C17002	9(3)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Rinker Design Assoc., P.C. Manassas, Virginia (Roadway)				



- \*\* Pavement Marking Legend \*\***
- (A) Type B, Class 1, White, 4" Width
  - (B) Type B, Class 1, White, 4" Width, 10' Long, 30' Space
  - (C) Type B, Class 1, White, 4" Width, 2' Long, 4' Space
  - (D) Type B, Class 1, White, 24" Width
  - (E) Type B, Class 1, White, 6" Width
  - (F) Type B, Class 1, Yellow, 4" Width
  - (G) Type B, Class 1, Yellow, 4" Width, Double Line, 8' Space
  - (H) Type B, Class 1, White, Turn Lane Use Arrow
  - (I) Type B, Class 1, White, 4" Width, 3' Long, 9' Space
  - (TE) Denotes Tie to Existing Pavement Marking
  - (Ex) Existing pavement marking matches proposed plan. Do not eradicate, replace or remove unless directed by the VDOT Traffic Engineer.
- Note: Any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

Standard Sign Legend

Plan Item	Plan Symbol	
	Proposed	Existing
Single Post Sign Support		
Double Post Sign Support		
Sign Call Outs		
Existing Sign to Remain		
Existing Sign to be Reset or Relocated		
Existing Sign to be Removed		
Proposed Sign Panel		
Line Indicating Existing Sign Location	-----	
Line Indicating Proposed/Relocated Sign Location	—————	

SCALE 0 50' 100'	PROJECT PWC 17C17002	SHEET NO. 9(3)
---------------------	-------------------------	-------------------

PRELIMINARY SUBMISSION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY NOT BE USED FOR RIGHT OF WAY OR CONSTRUCTION.

6/3/2019  
 NOVA DISTRICT  
 Rinker Design Associates, P.C.  
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services  
 10000 Dominion Boulevard, Suite 1000, Manassas, VA 20108  
 Phone: (703) 719-6471  
 Fax: (703) 719-6471  
 www.rinker.com

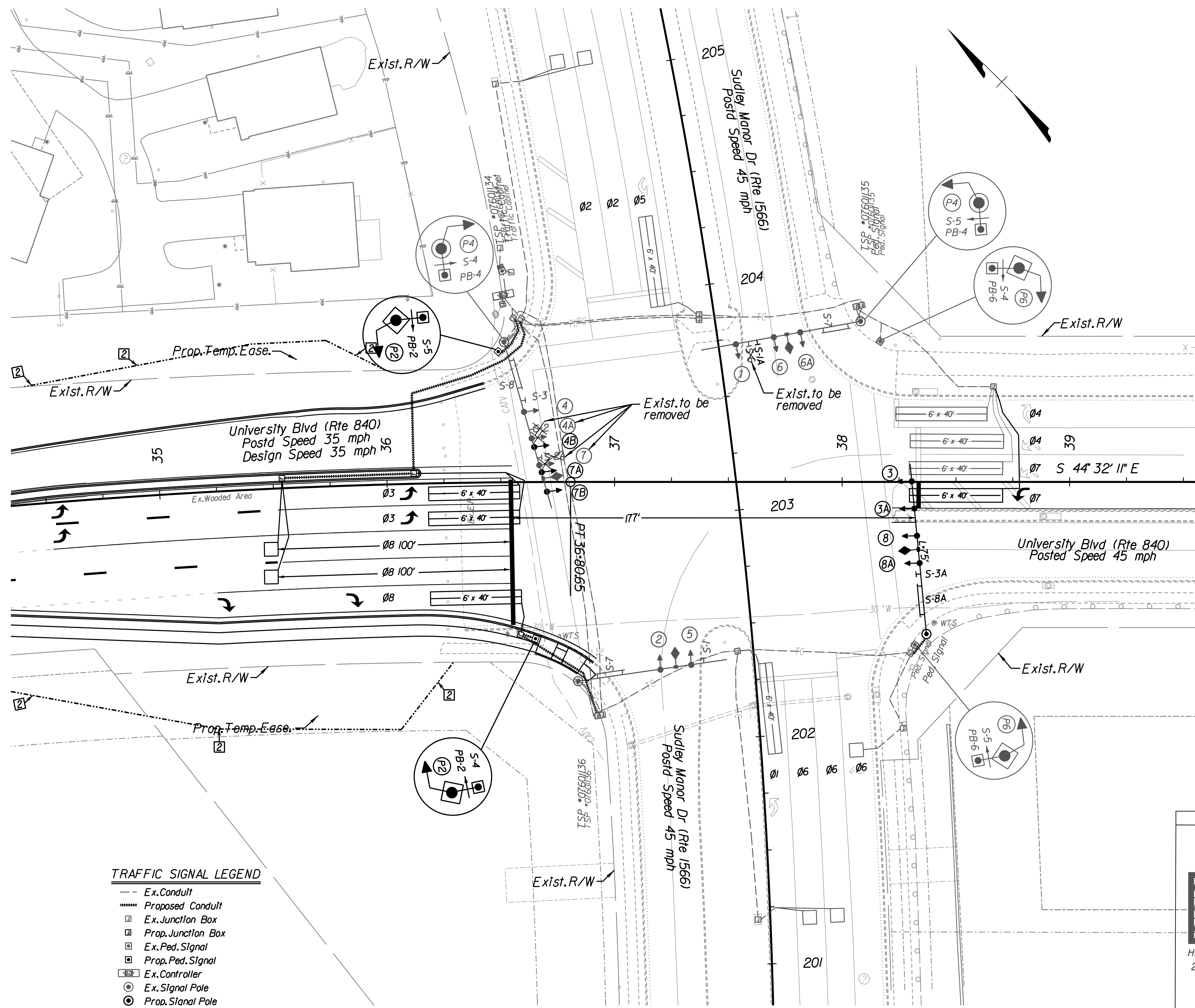
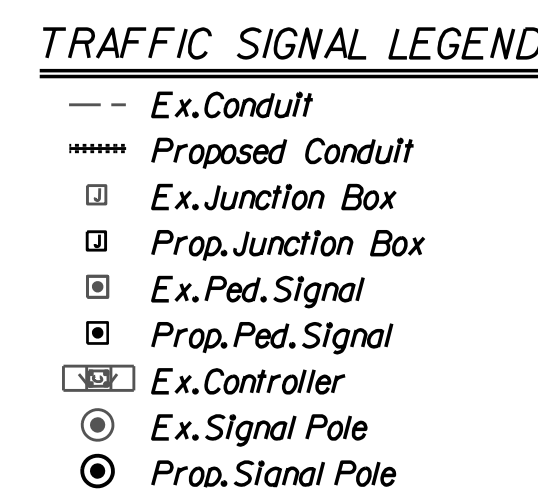
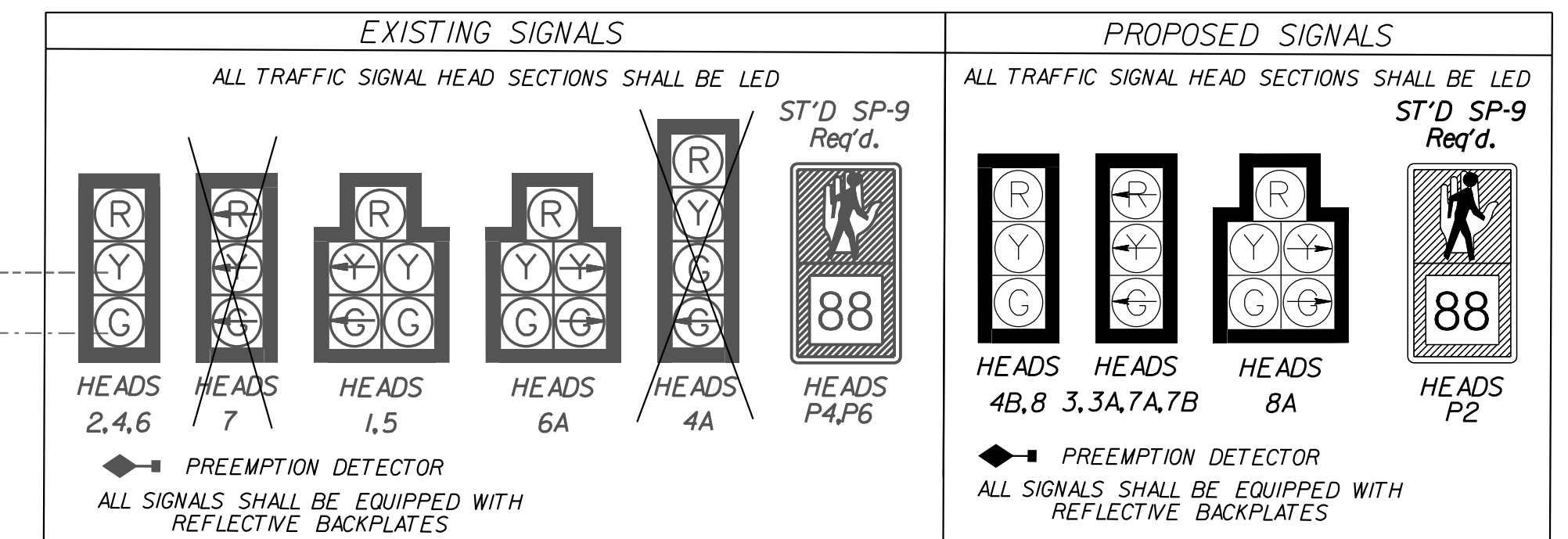
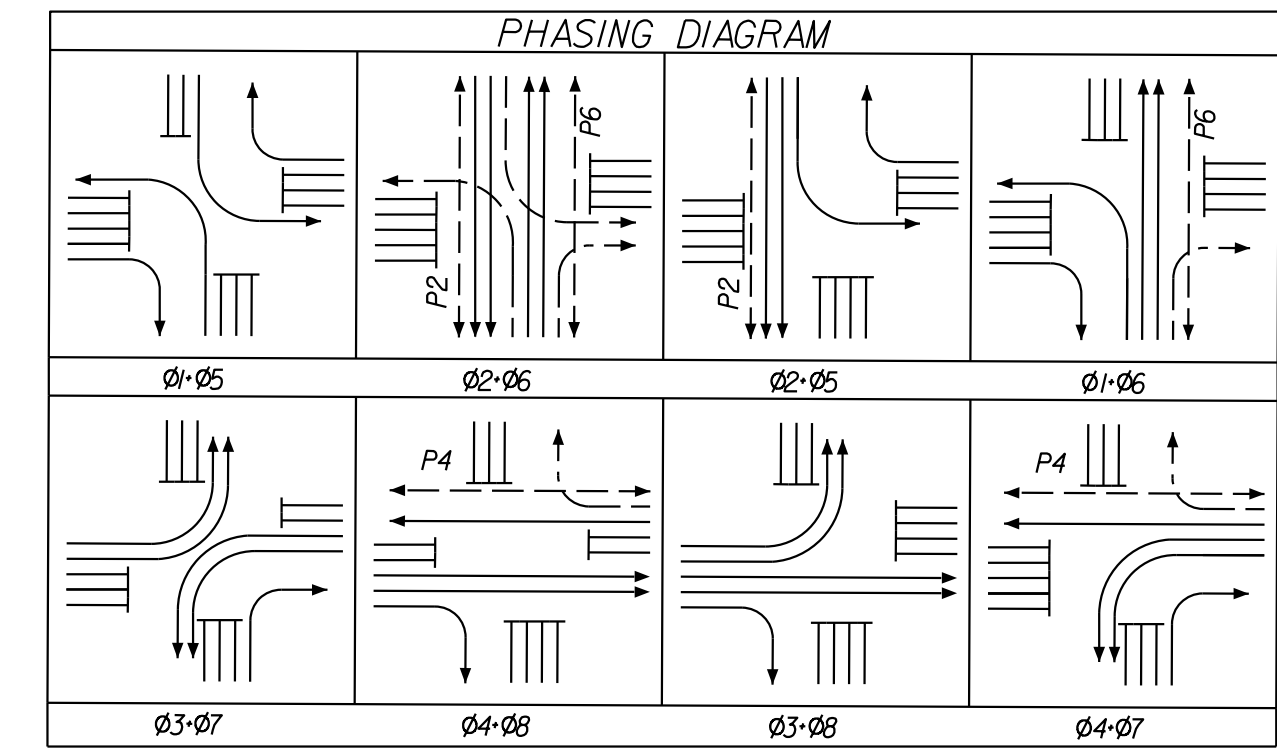
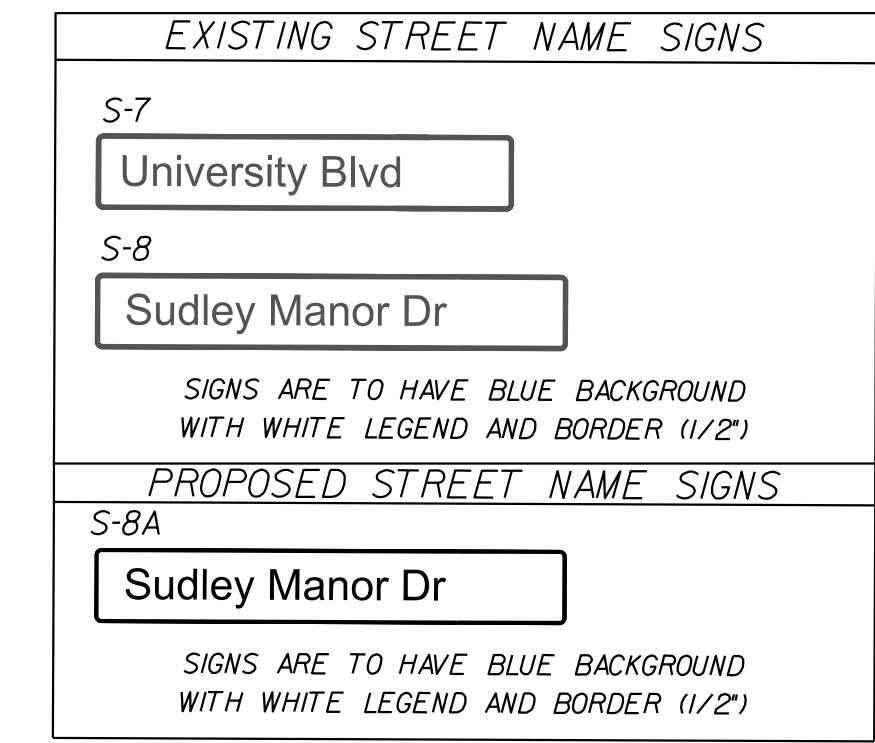
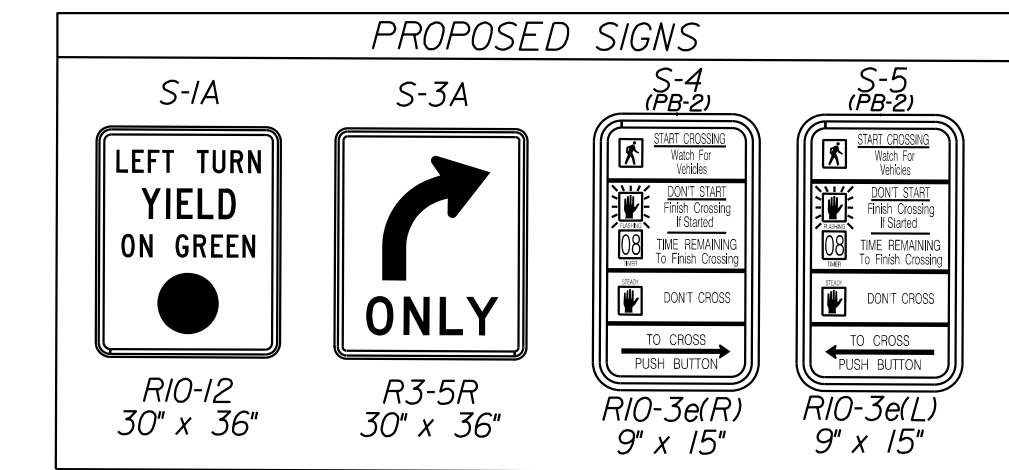
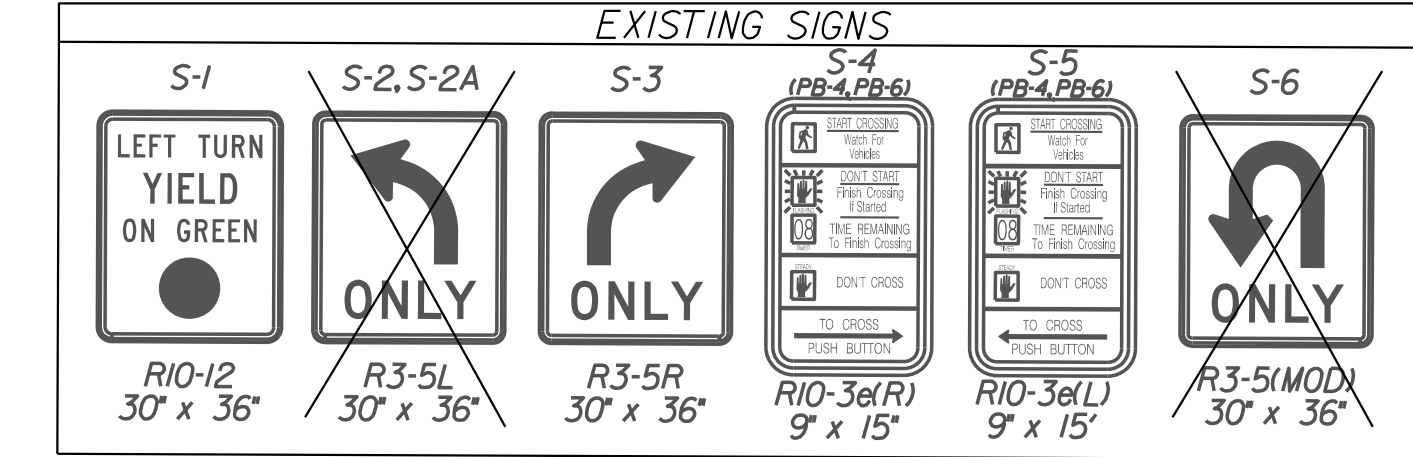
PROJECT MANAGER: PWC DOT: Gladis Arboleda (703) 792-5276  
SURVEYED BY, DATE: RDA: Bryan Drealla LS (703) 334-9302 March 2019  
DESIGN BY: RDA: Rick DeLong PE (521) 719-6471  
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100 April 2019

# Preliminary Traffic Signal Plan

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840	PWC	ITC17002	10

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.  
Manassas, Virginia  
(Roadway)



6/3/2019  
 NOVA DISTRICT  
 Rinker Design Associates, P.C.  
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, and Construction Services  
 10000 Westhampton Road, Suite 200, Manassas, VA 20108  
 Phone: (703) 719-6471  
 Fax: (703) 719-6472  
 Website: www.rinker.com



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

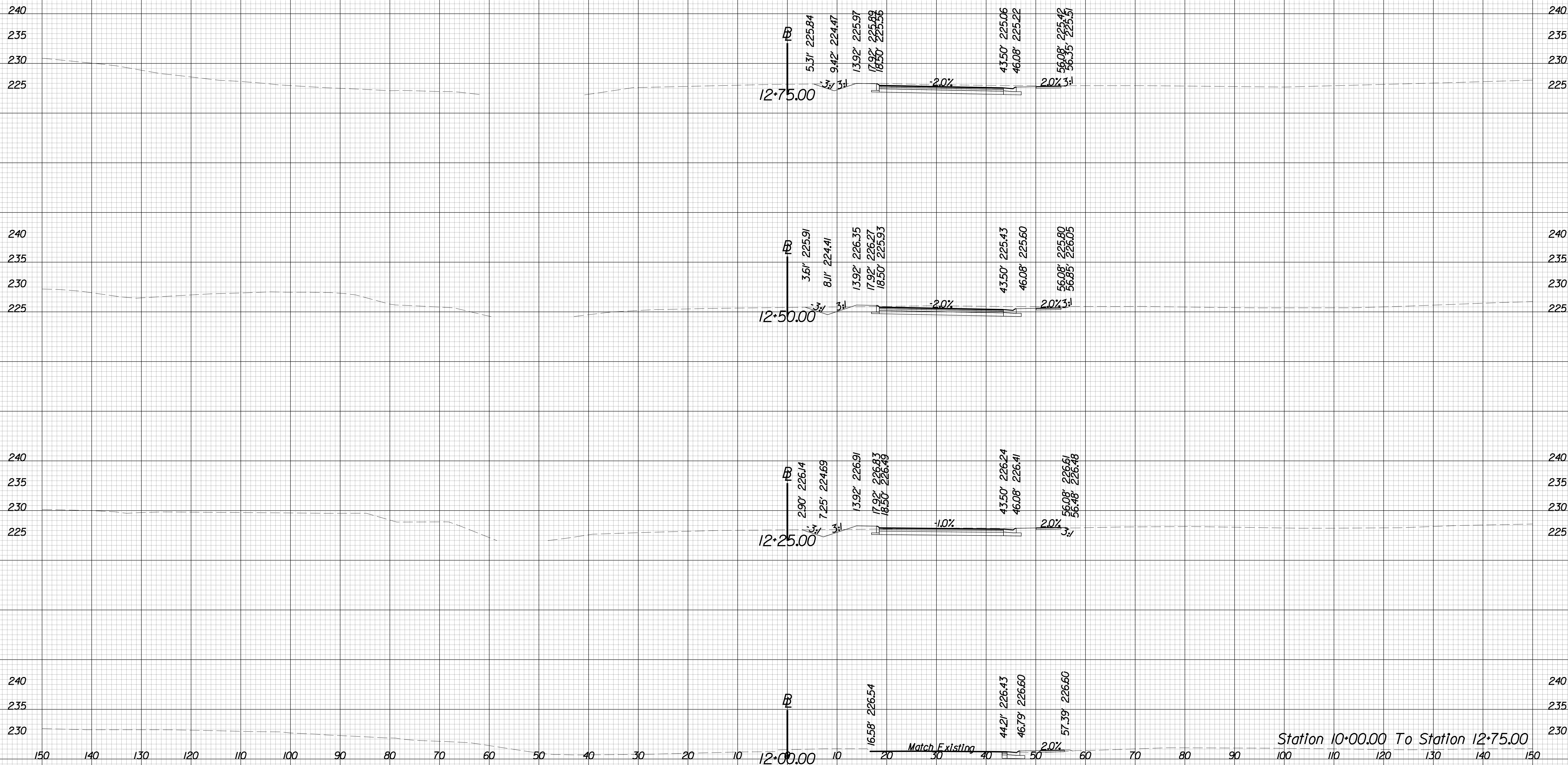
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-1

## University Blvd



Station 10+00.00 To Station 12+75.00

8 TIME \$ST AMPS



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

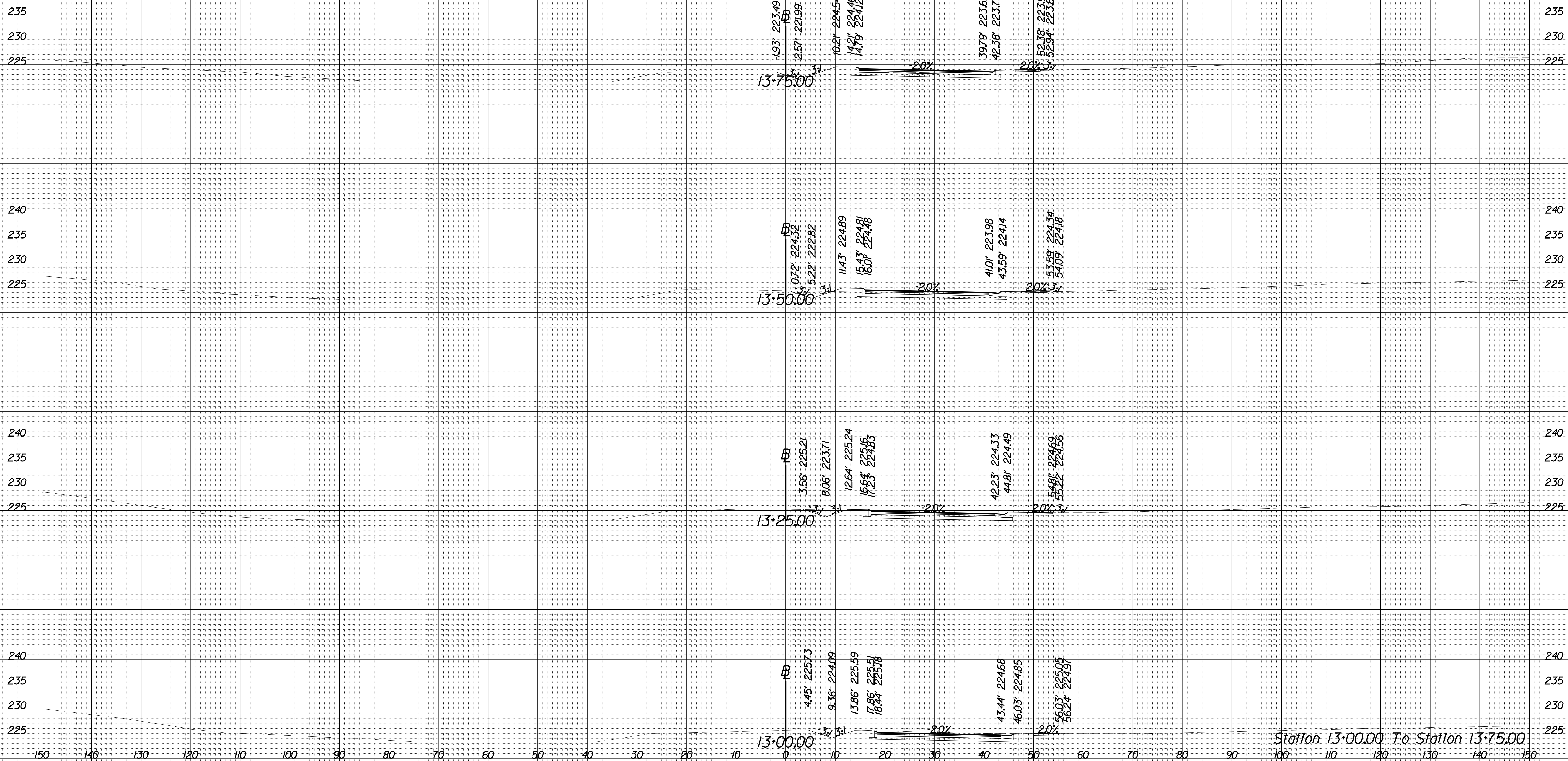
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-2

## University Blvd



Station 13:00.00 To Station 13:75.00

8 TIME \$T AMP\$

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

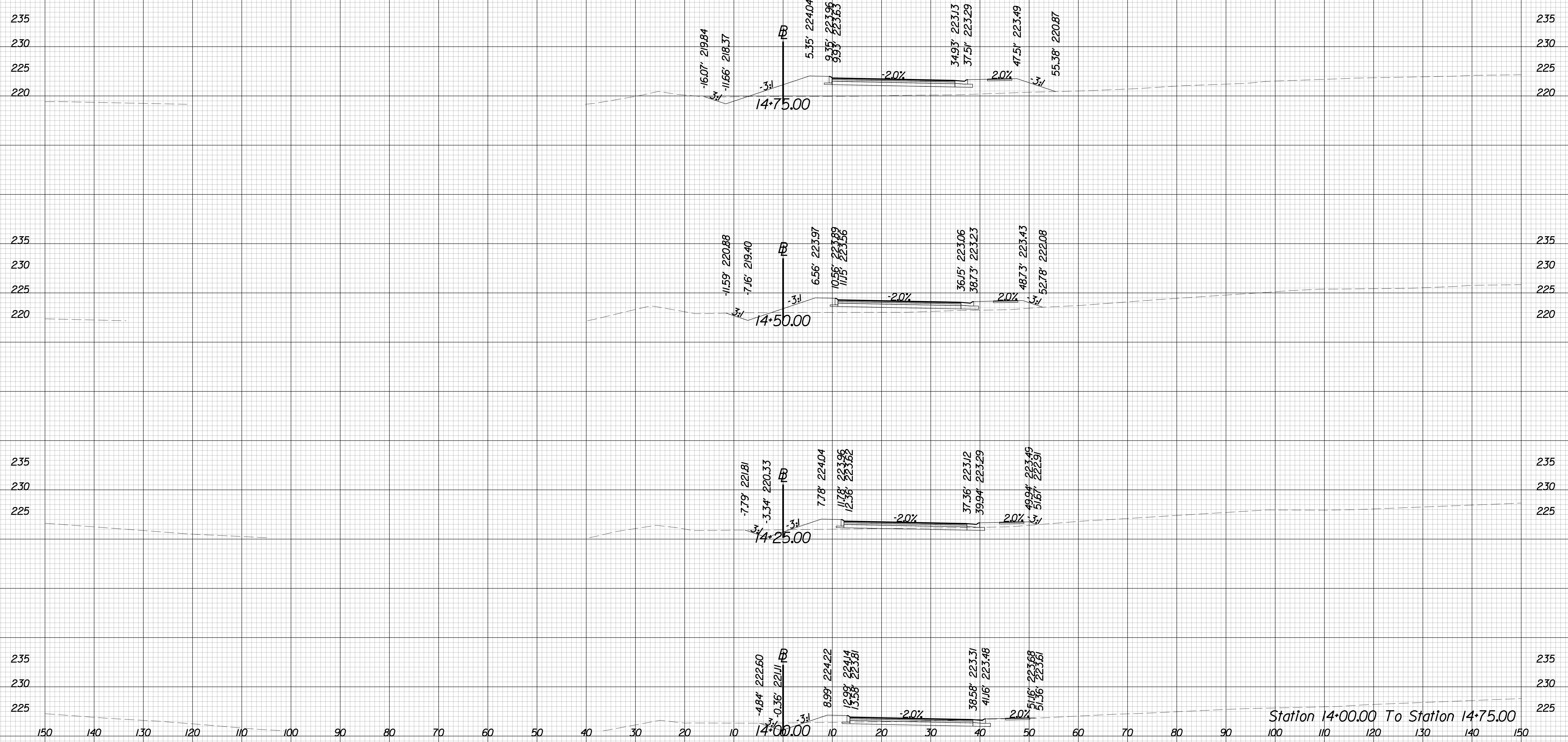
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-3

## University Blvd



Station 14+00.00 To Station 14+75.00

8 TIME STAMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

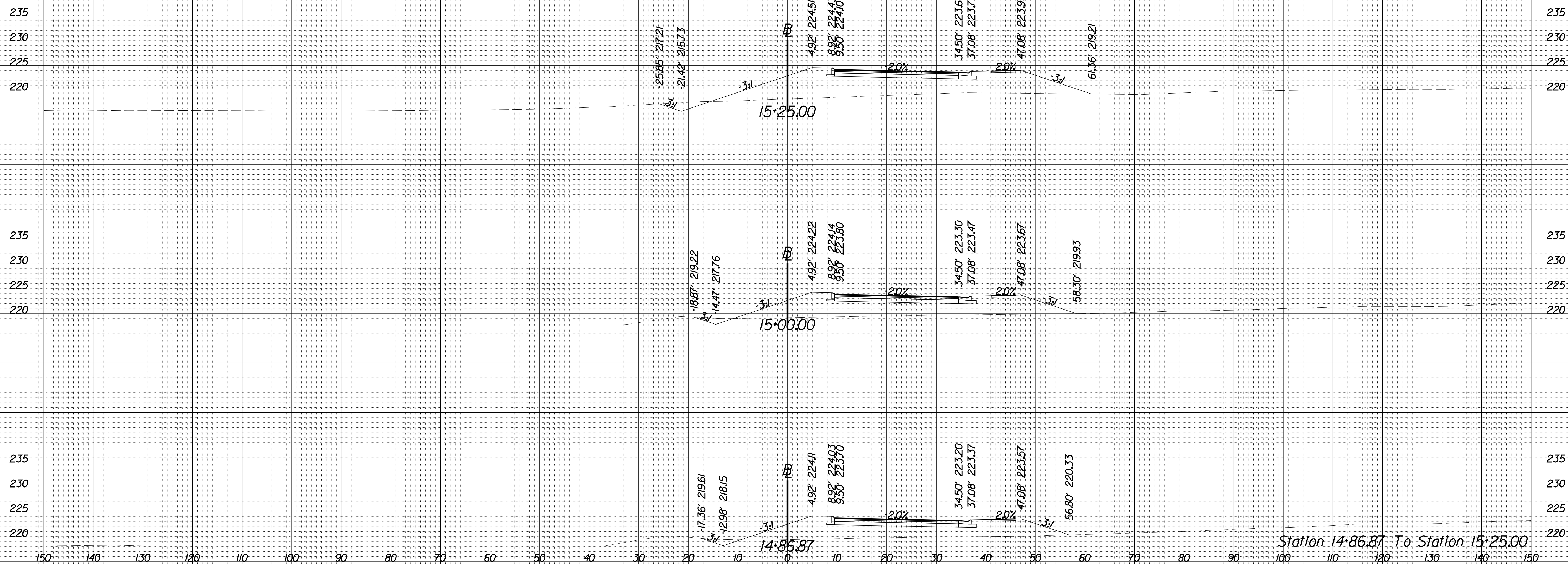
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-4

## University Blvd



Station 14+86.87 To Station 15+25.00

8 TIME \$ST AMPS



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

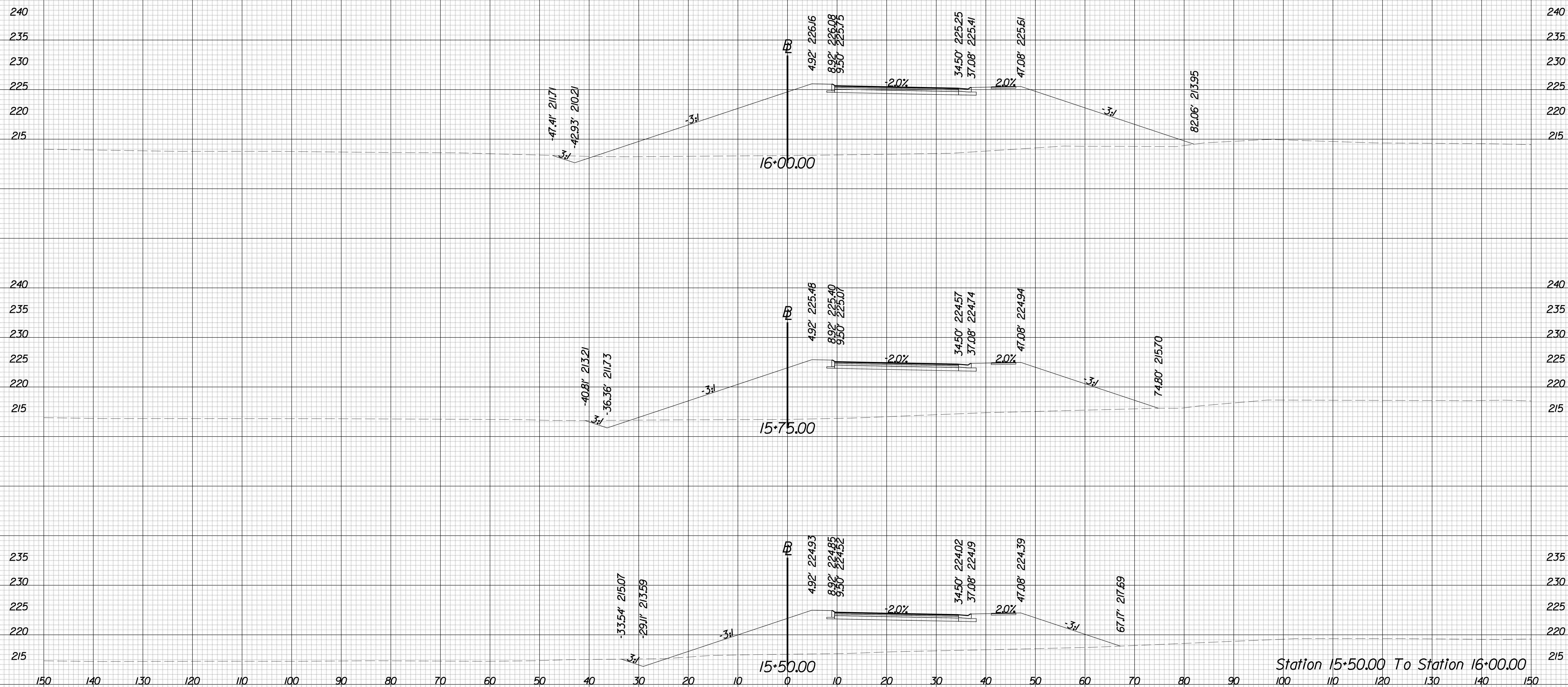
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-5

## University Blvd



Station 15+50.00 To Station 16+00.00

8 TIME \$ST AMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

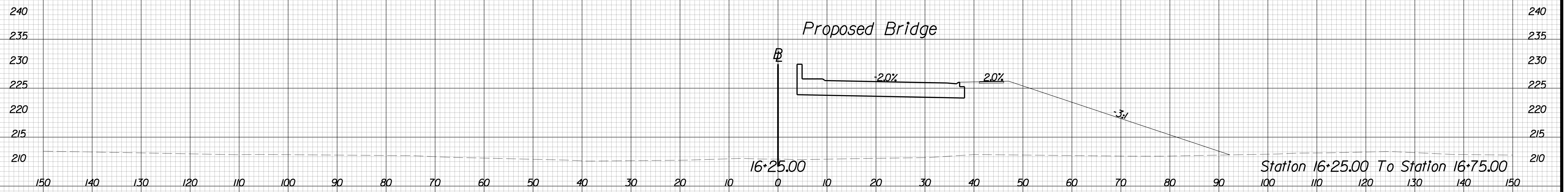
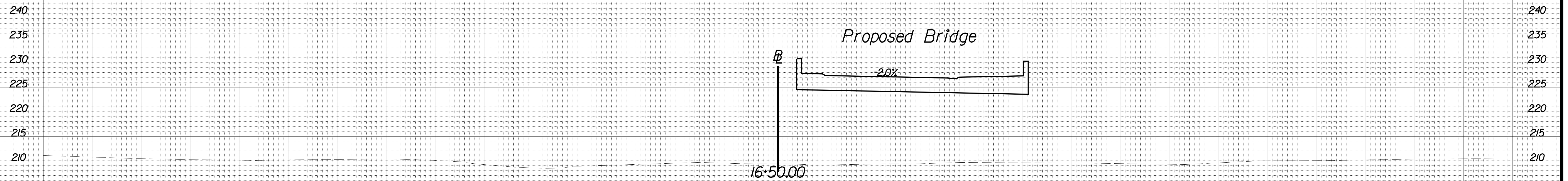
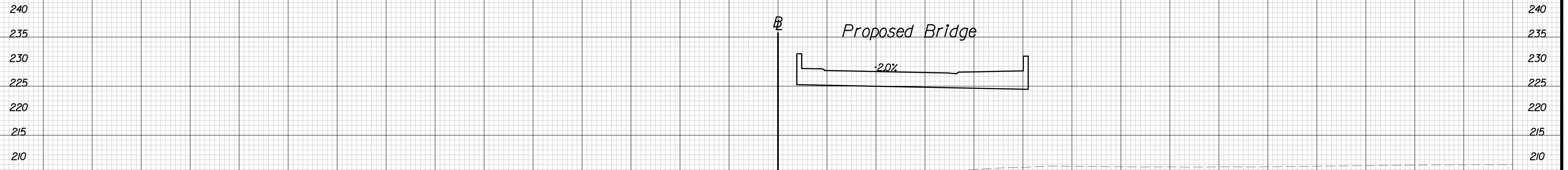
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-6

## University Blvd



8 TIME \$T AMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

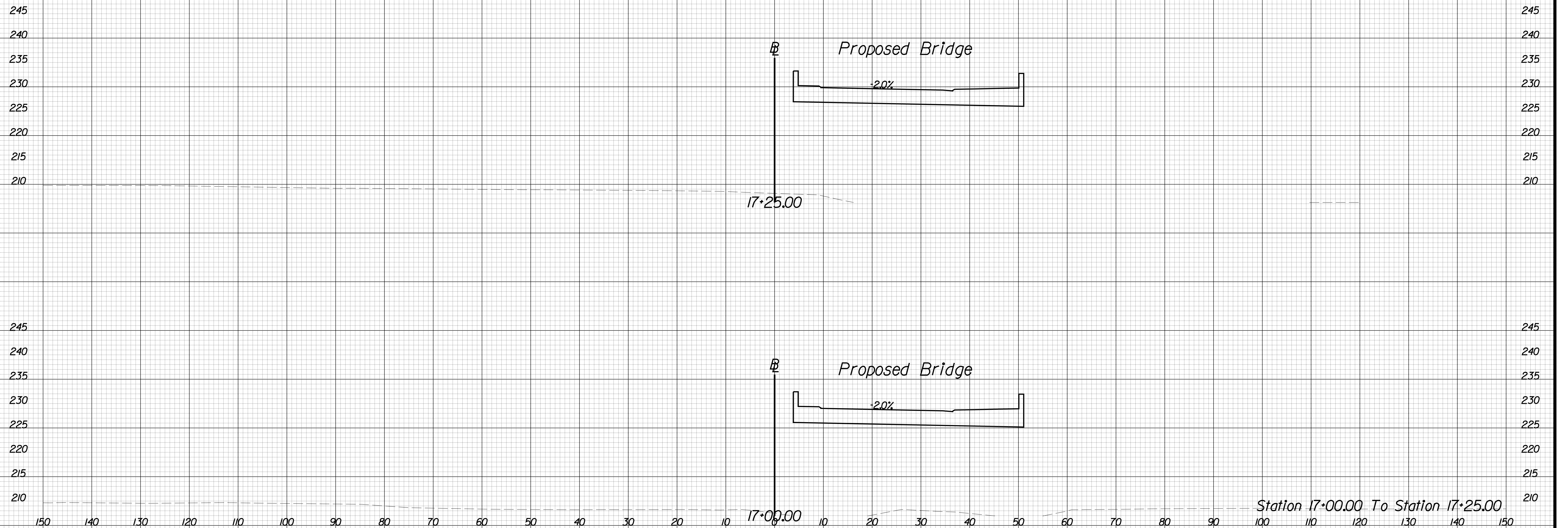
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-7

## University Blvd



8 TIME \$T AMPS



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

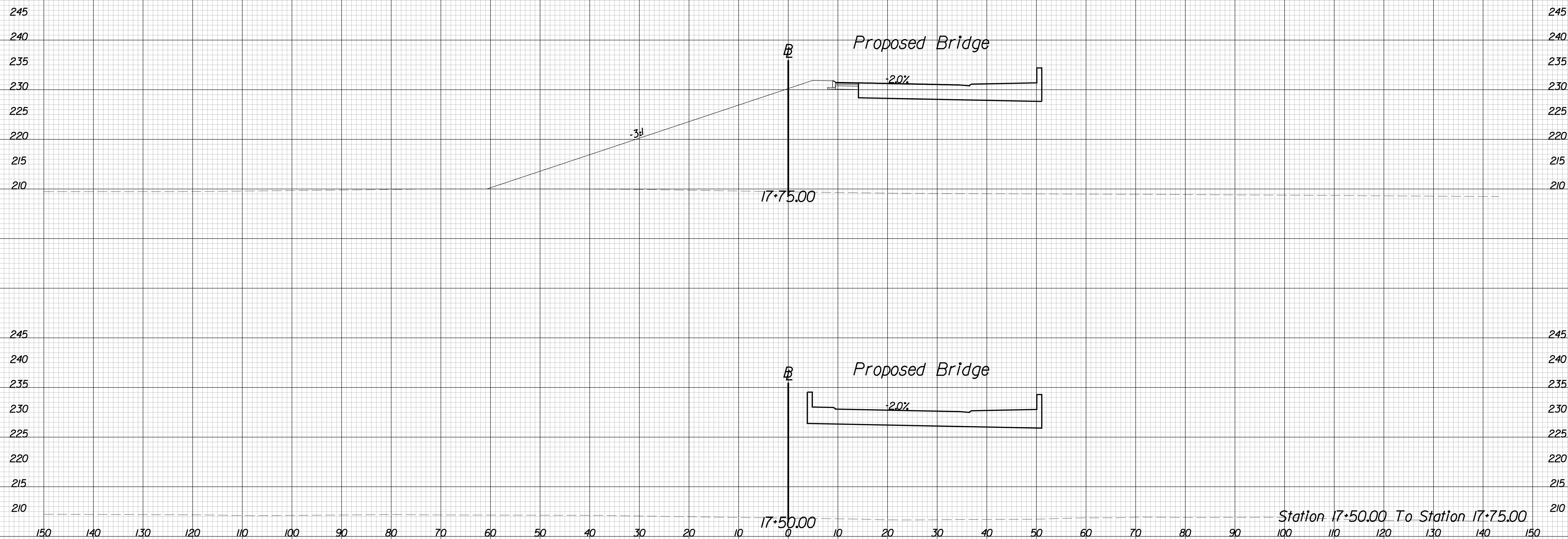
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-8

## University Blvd



Station 17+50.00 To Station 17+75.00

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

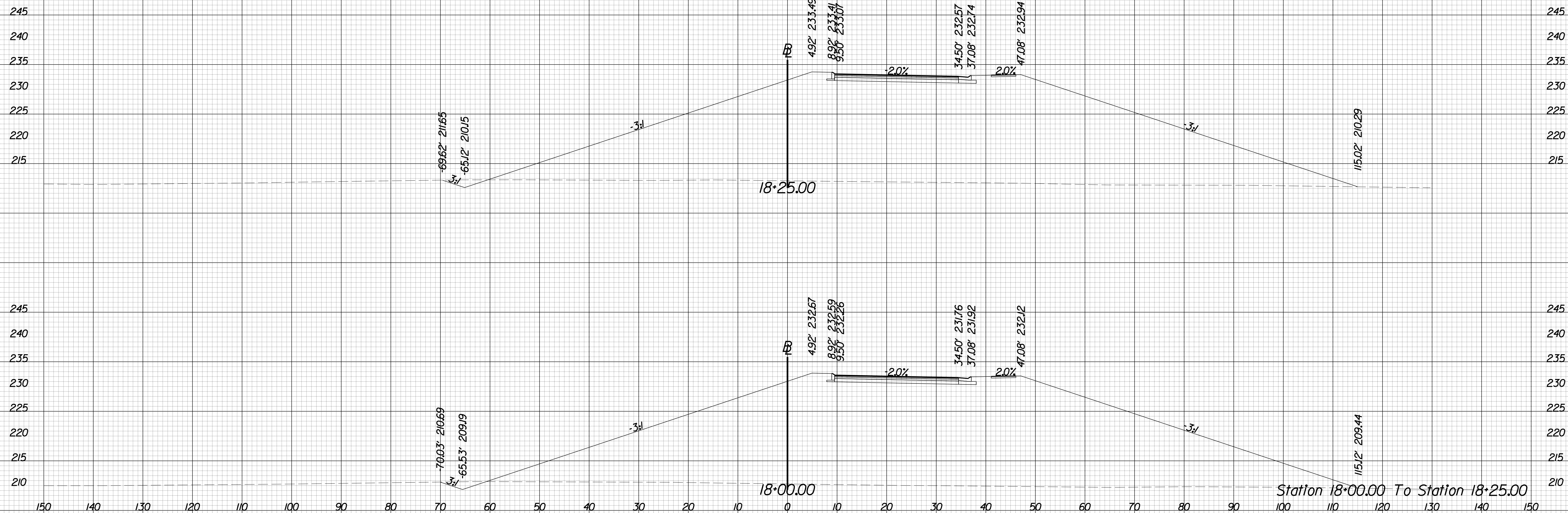
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-9

## University Blvd



8 TIME \$ST AMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

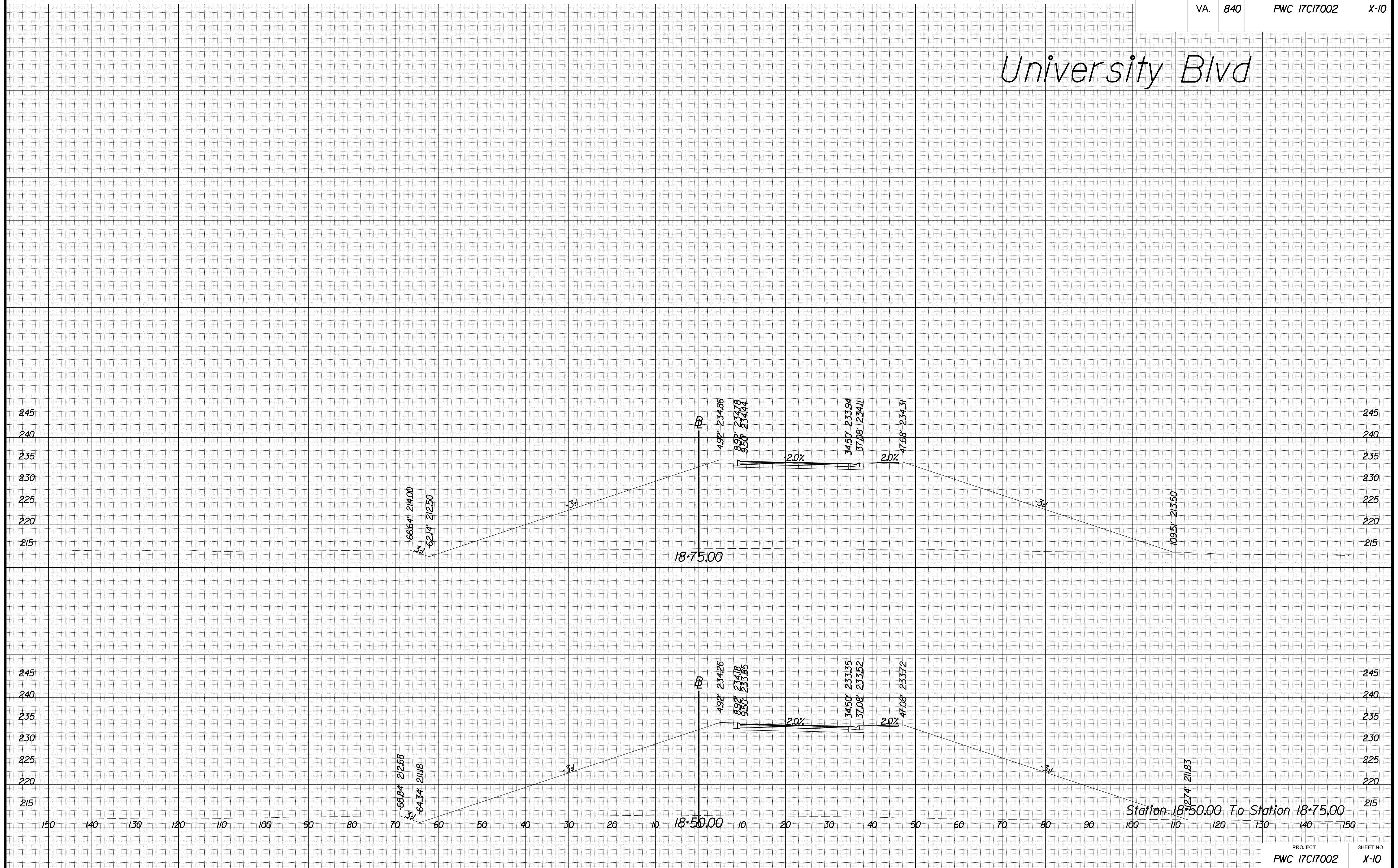
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-10

## University Blvd



8 TIME \$T AMPS



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

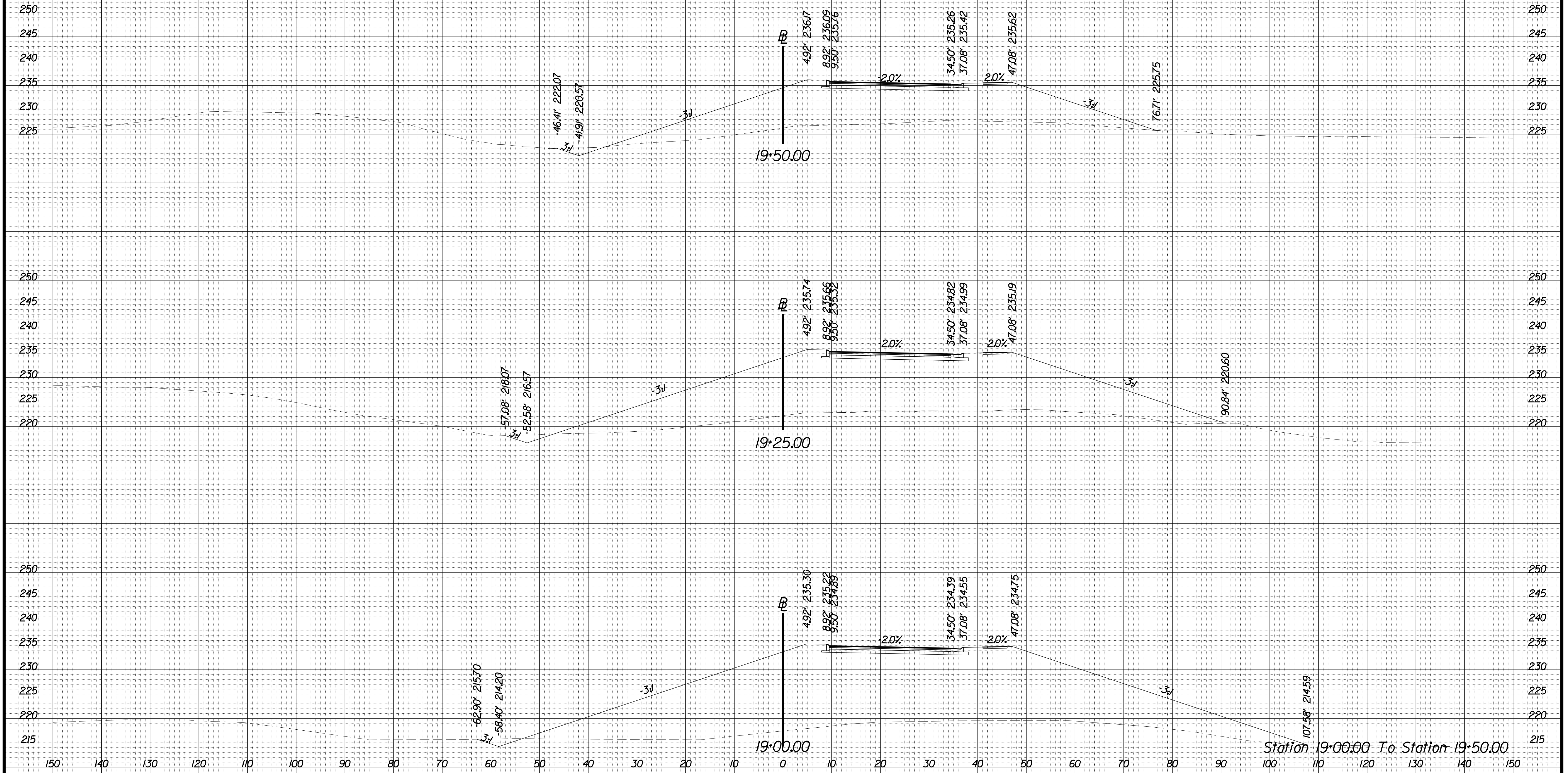
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-11

## University Blvd



Station 19+00.00 To Station 19+50.00

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

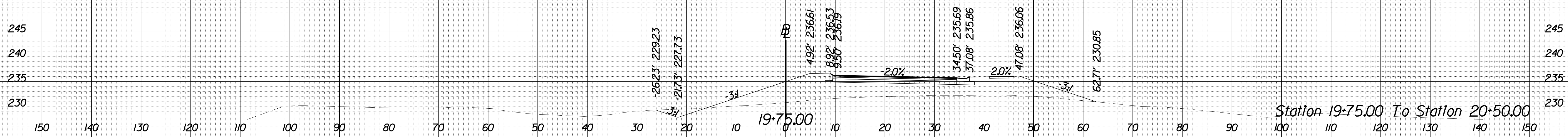
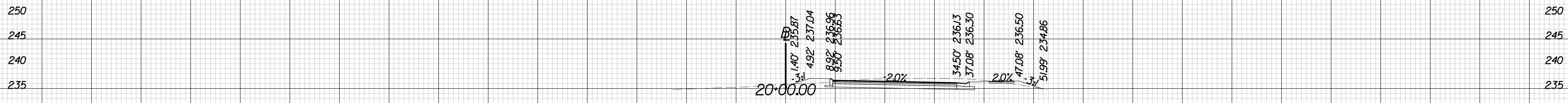
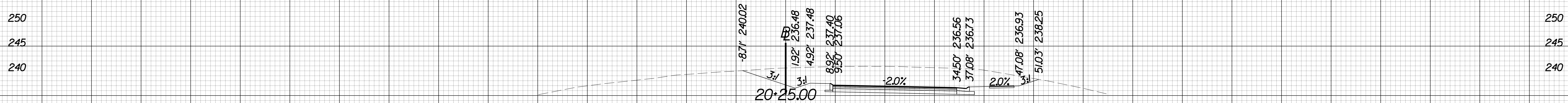
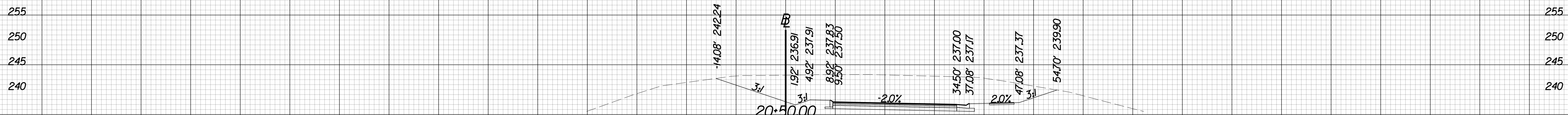
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-12

## University Blvd



Station 19+75.00 To Station 20+50.00

8/26/16

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

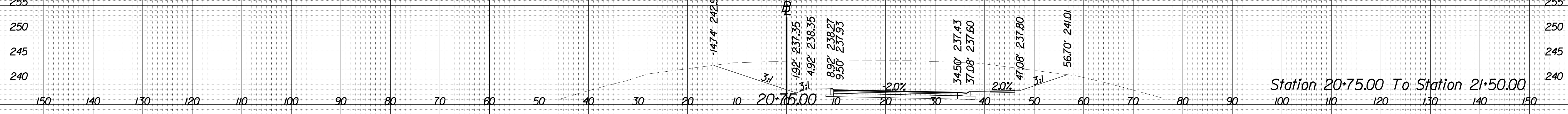
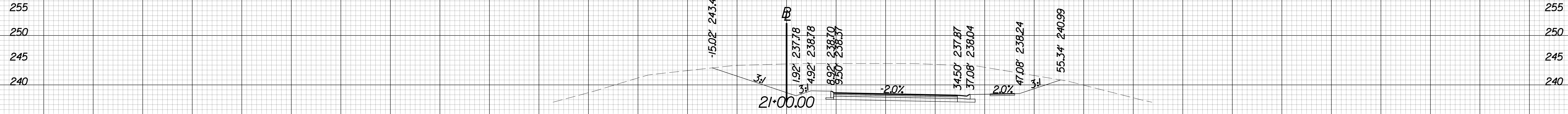
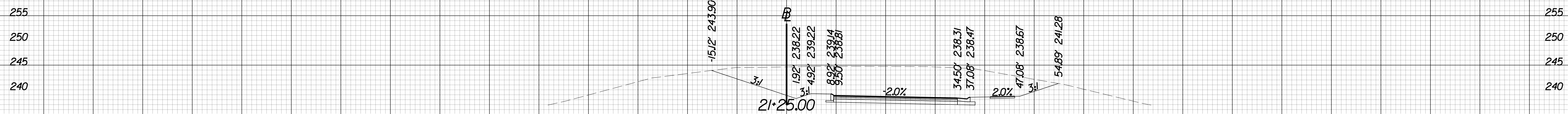
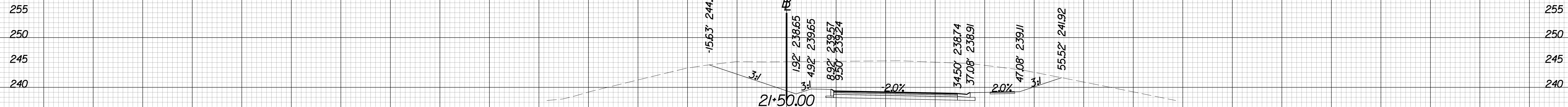
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-13

## University Blvd



Station 20+75.00 To Station 21+50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 20+75.00 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

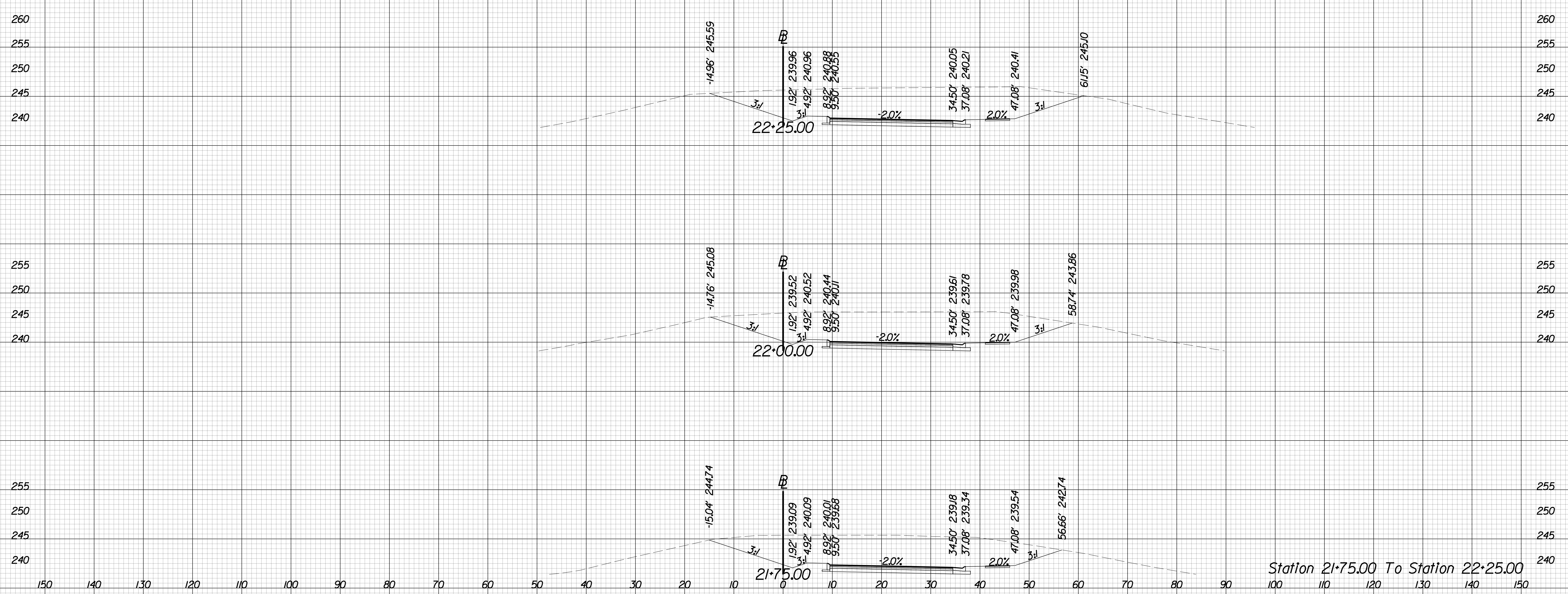
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-14

## University Blvd



Station 21+75.00 To Station 22+25.00

8 TIME STAMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

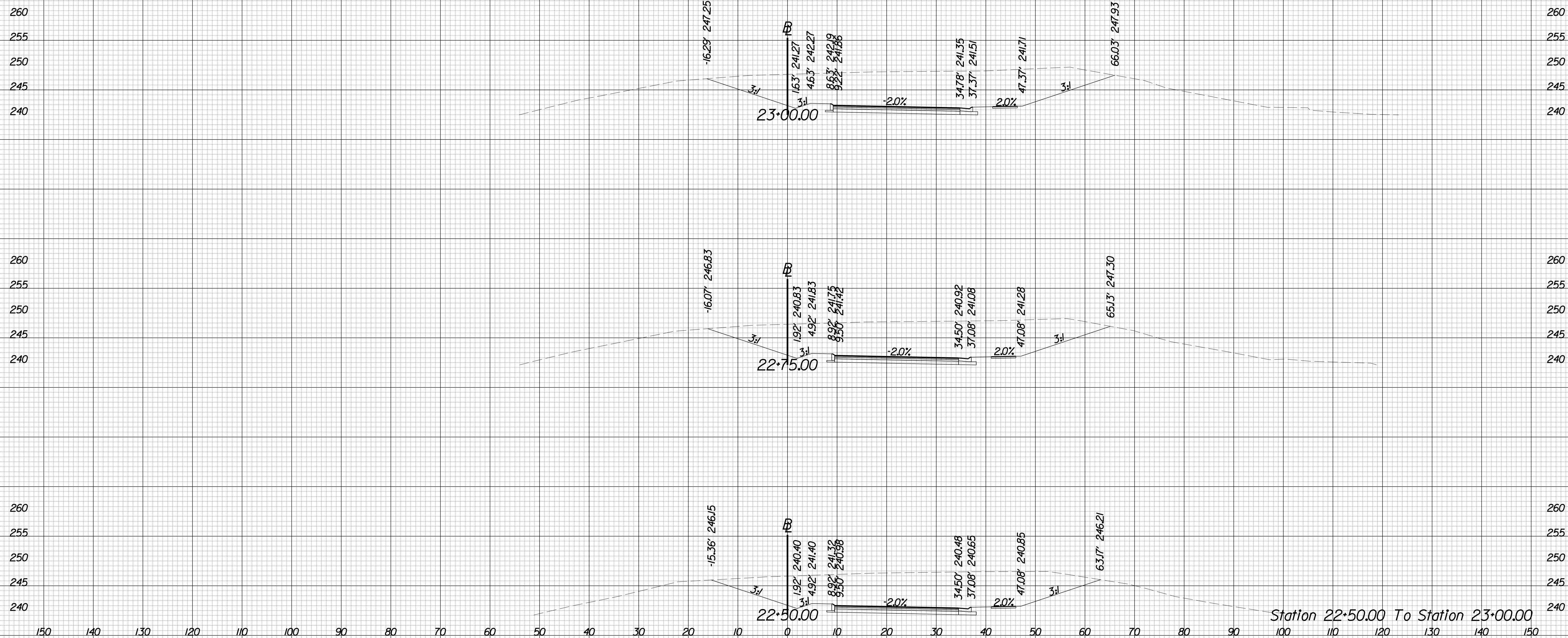
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-15

## University Blvd



Station 22+50.00 To Station 23+00.00

8 TIME STAMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

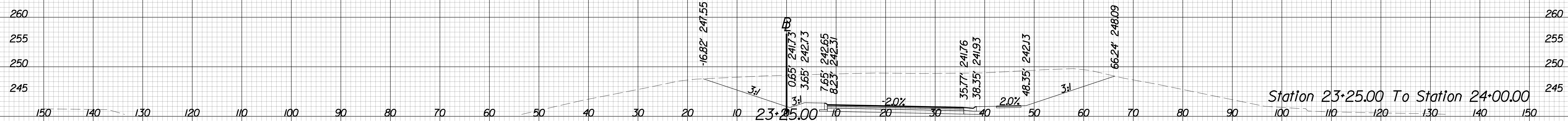
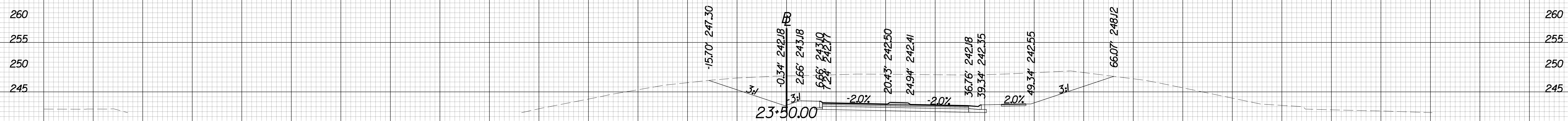
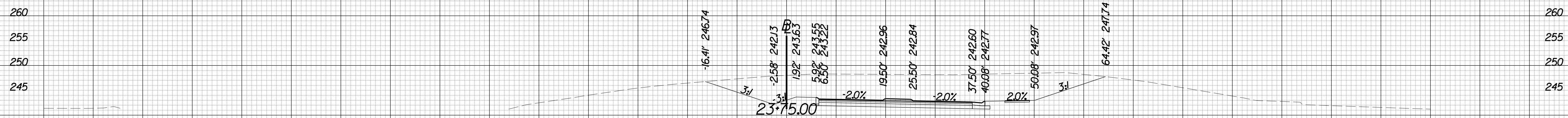
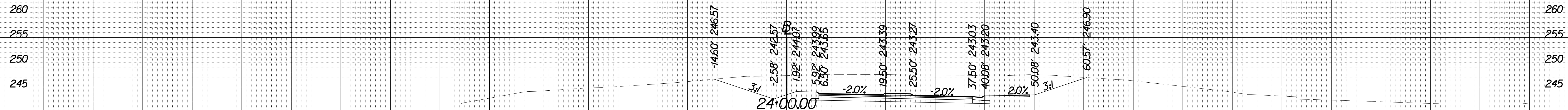
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-16

## University Blvd



Station 23+25.00 To Station 24+00.00

8 TIME \$ST AMPS



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

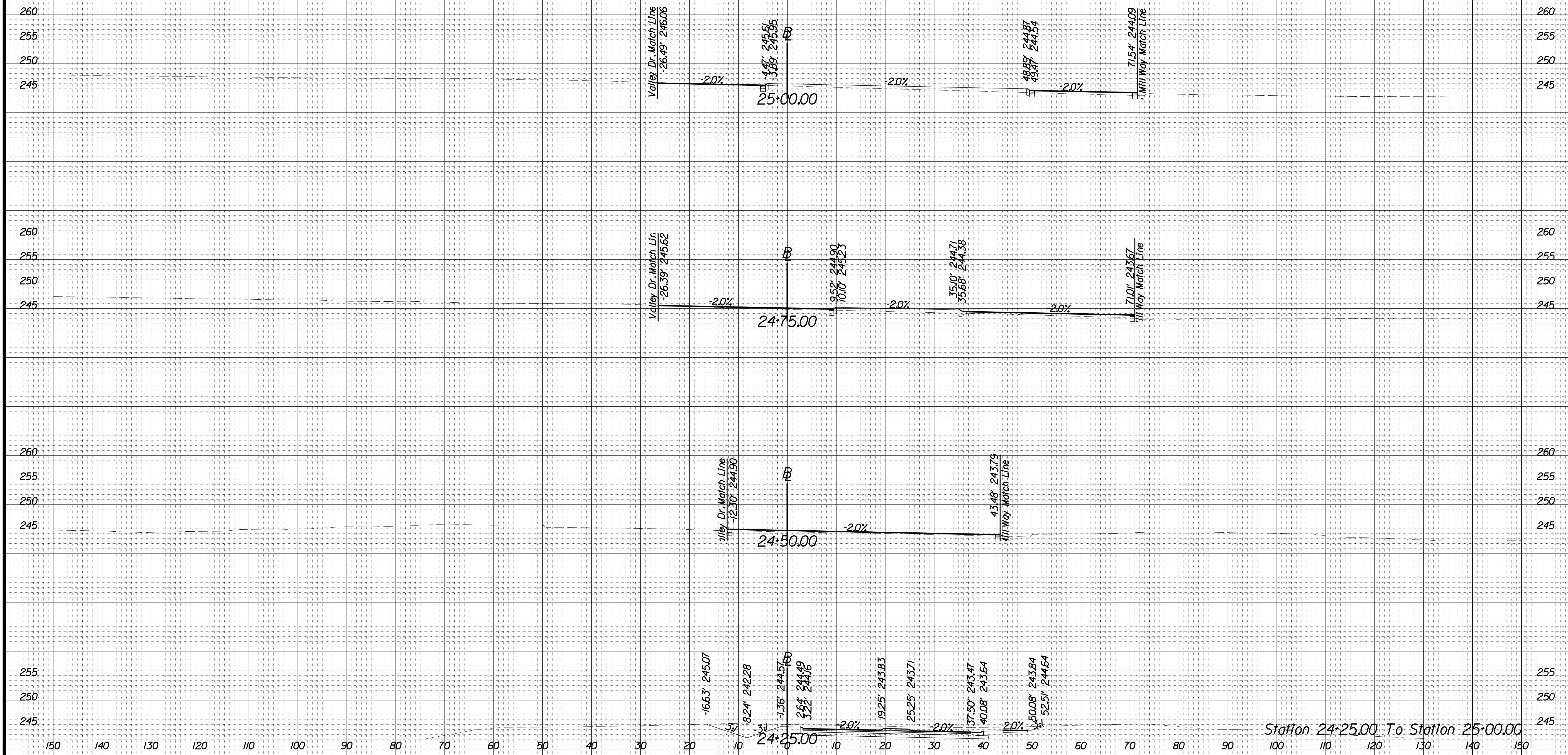
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-17

## University Blvd



8/26/16

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

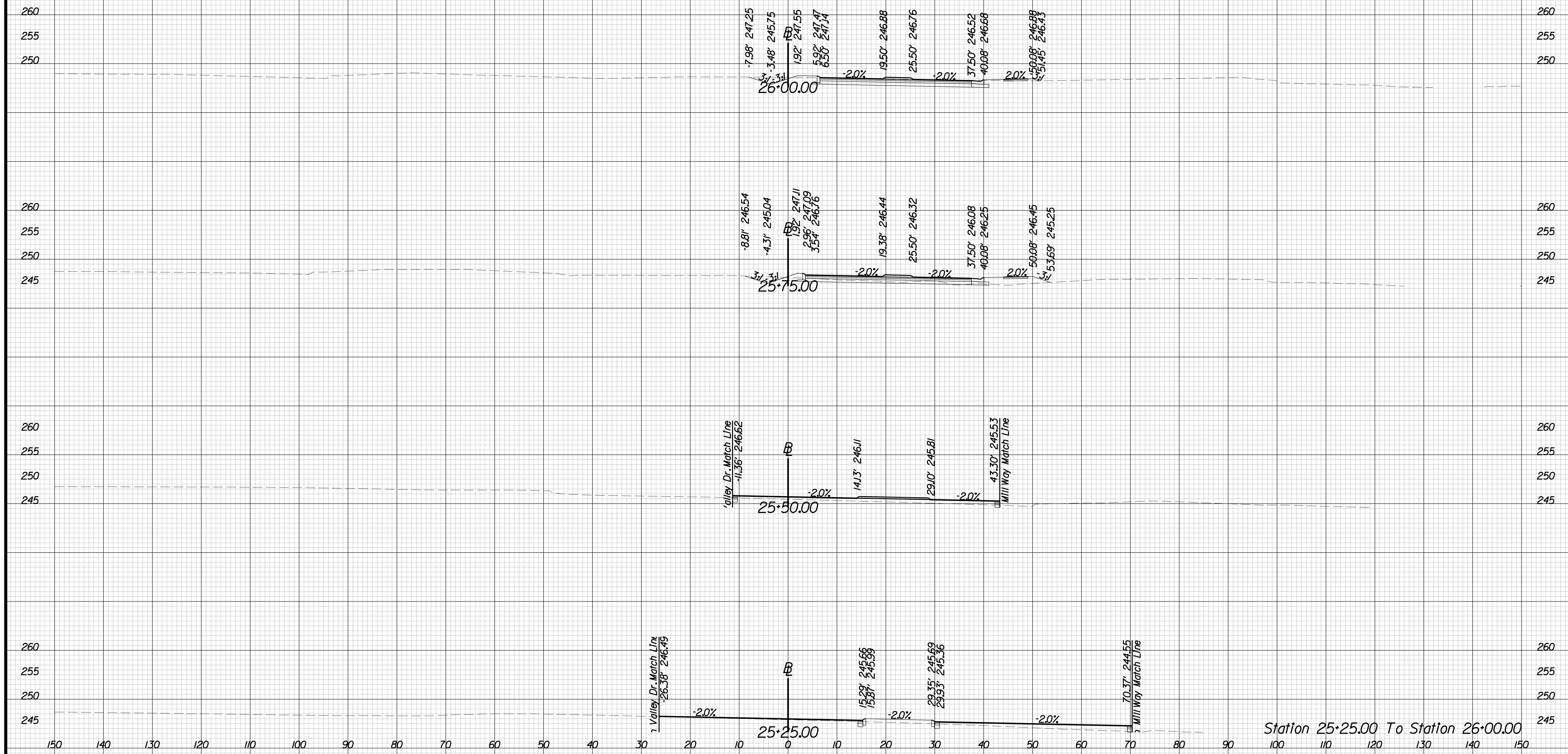
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-18

## University Blvd



Station 25:25.00 To Station 26:00.00

8/20/16

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

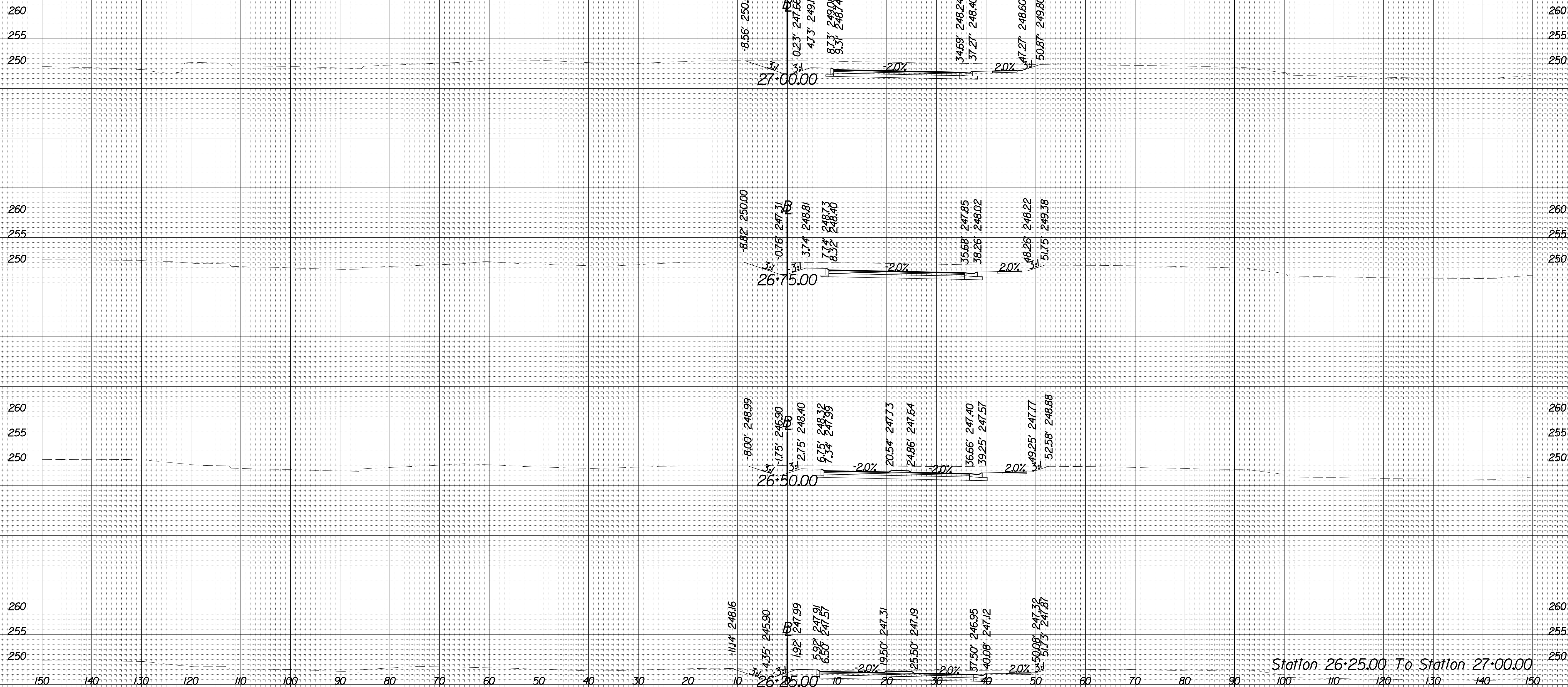
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-19

## University Blvd



Station 26+25.00 To Station 27+00.00



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

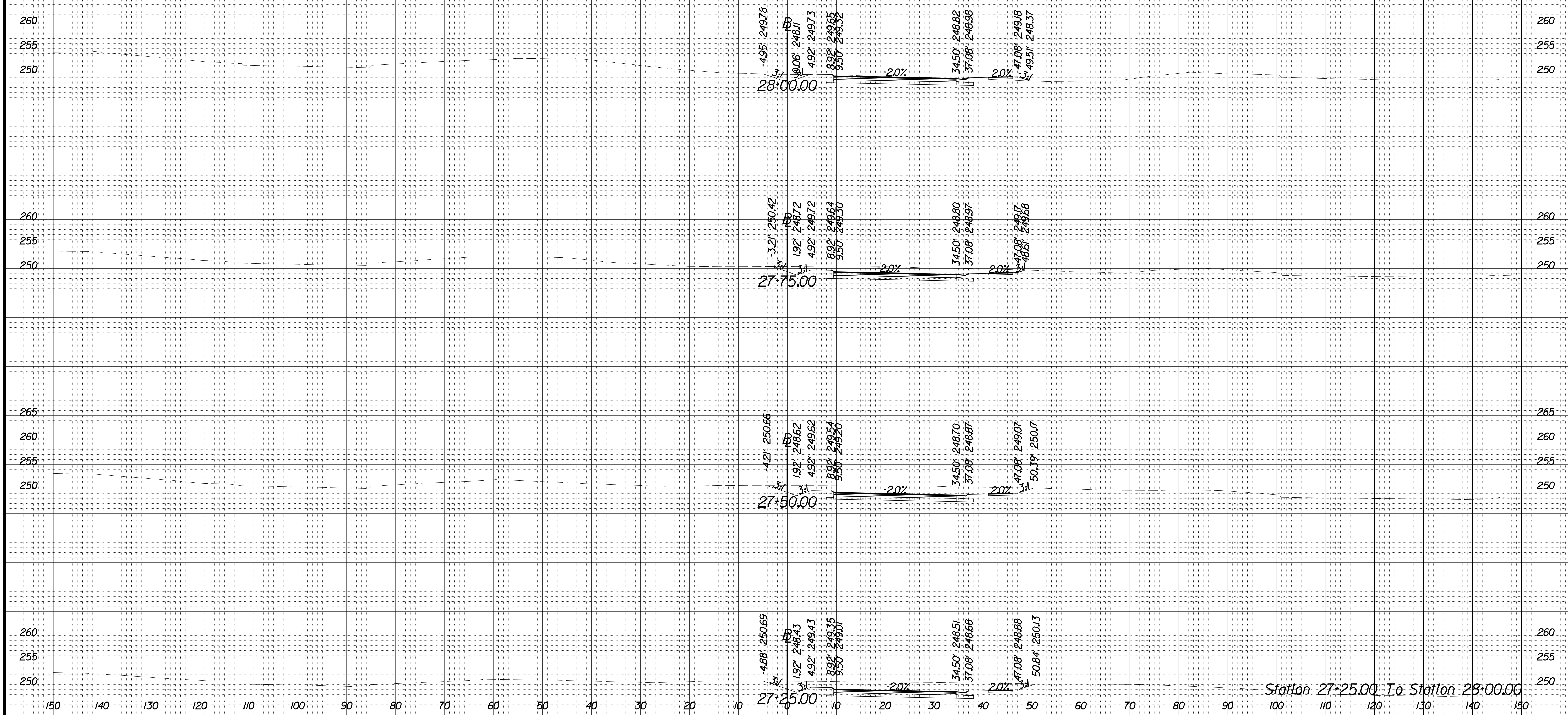
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-20

## University Blvd



Station 27+25.00 To Station 28+00.00

8 TIME \$T AMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

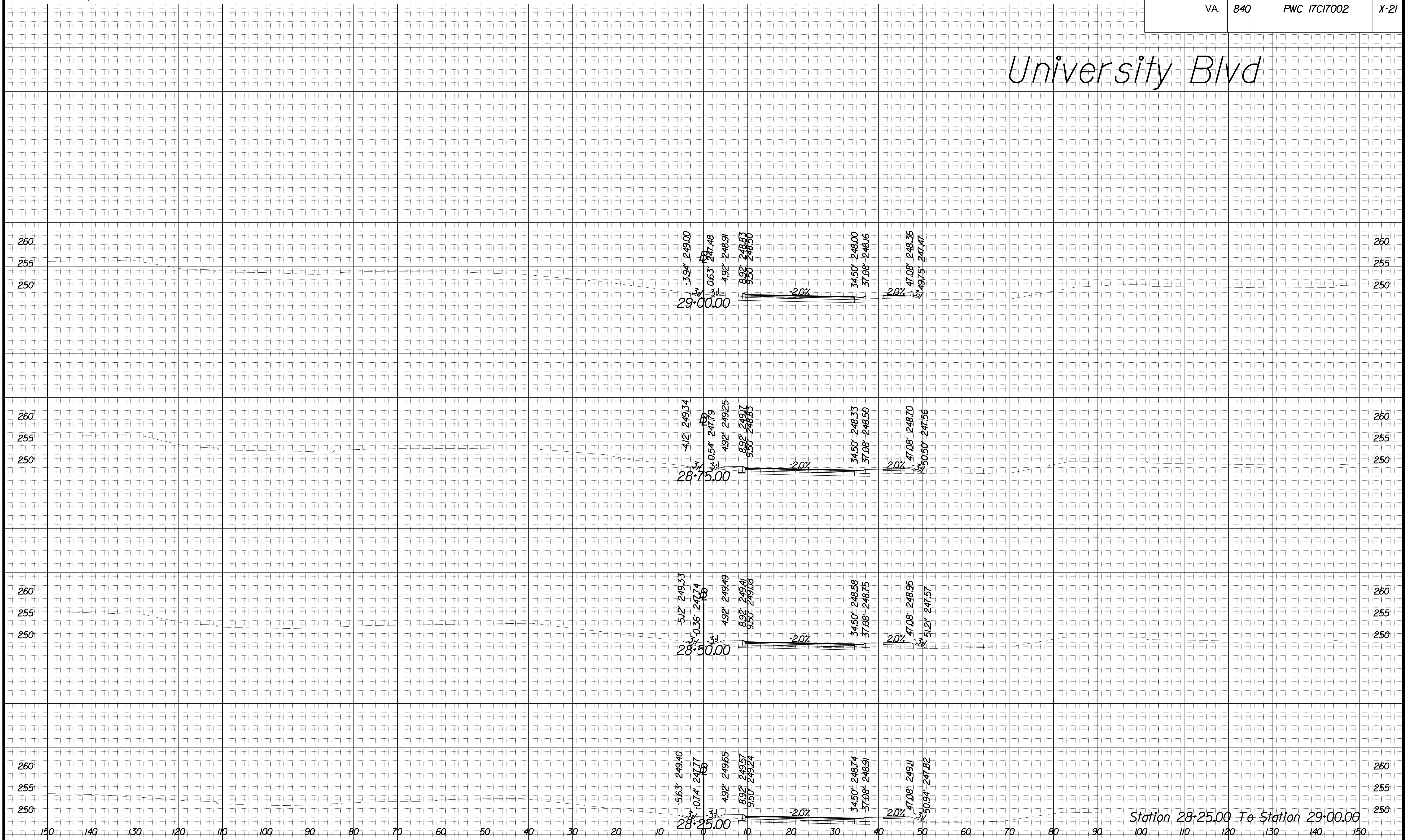
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-21

## University Blvd



Station 28+25.00 To Station 29+00.00

8 TIME \$T AMP\$

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

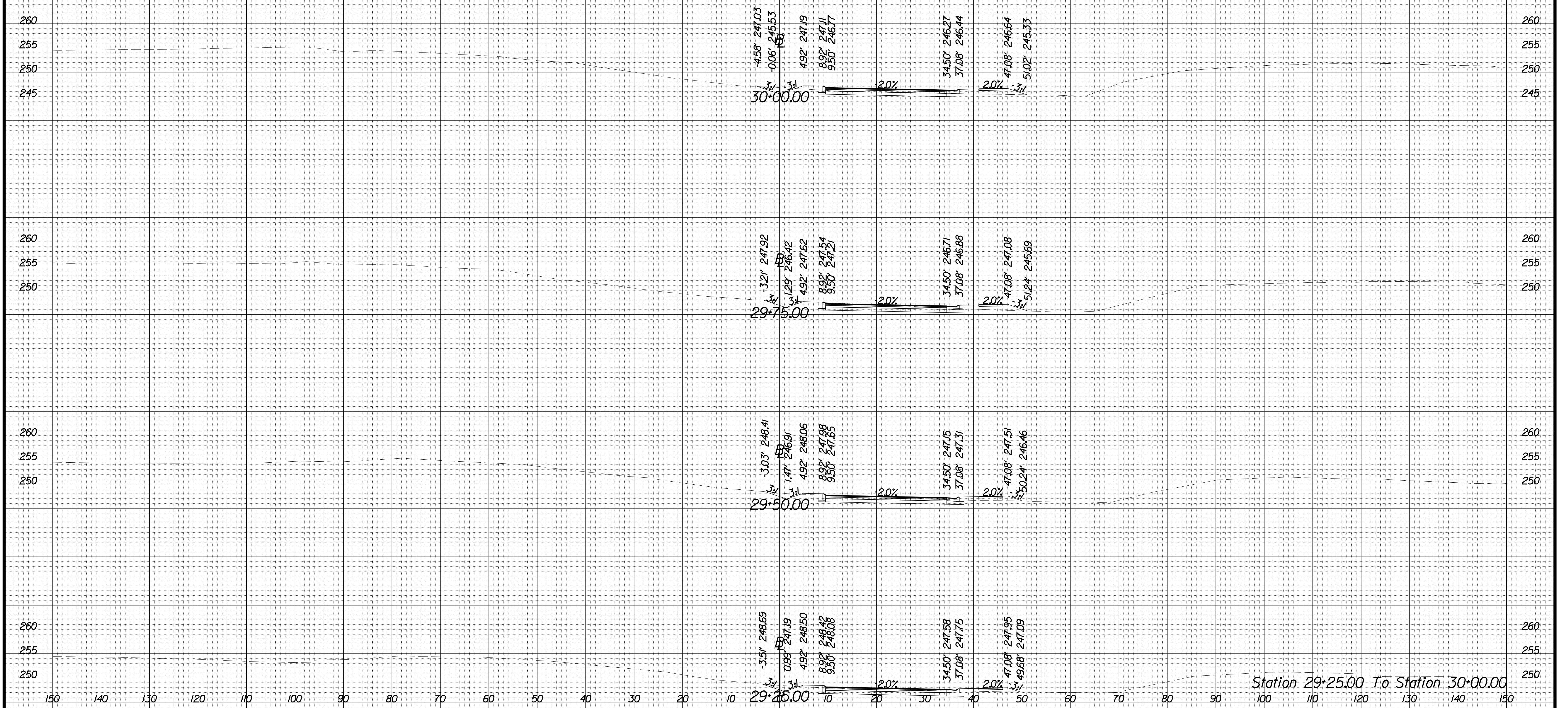
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-22

## University Blvd



Station 29+25.00 To Station 30+00.00

8 TIME \$T AMPS



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

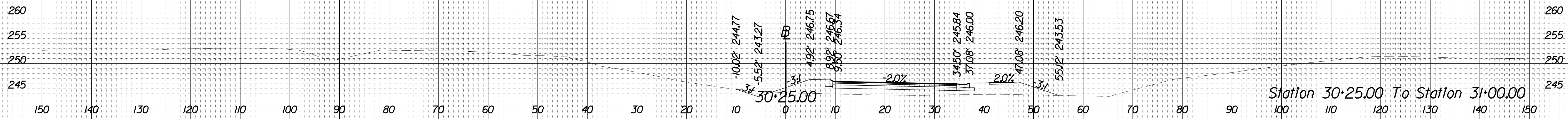
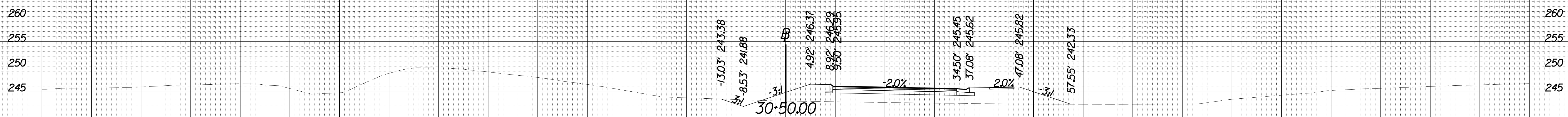
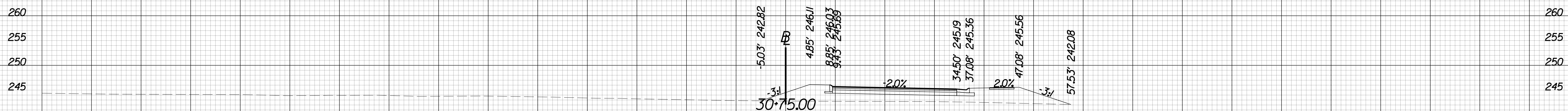
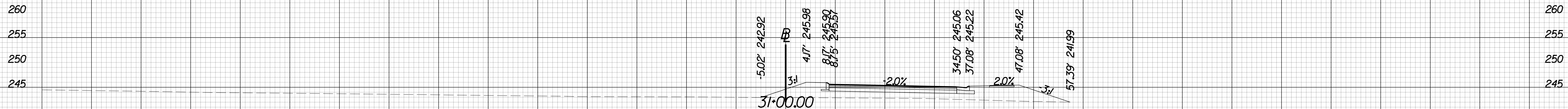
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-23

## University Blvd



Station 30+25.00 To Station 31+00.00

8 TIME \$ST AMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

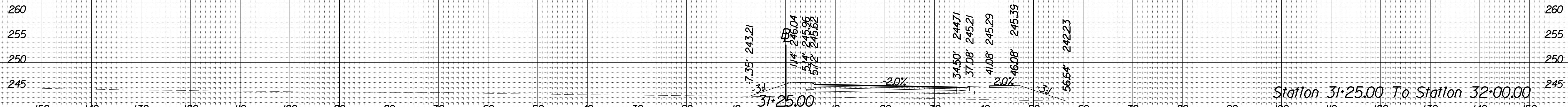
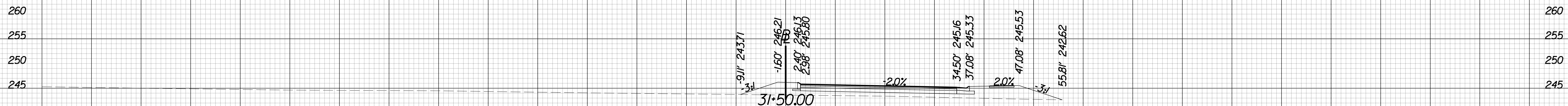
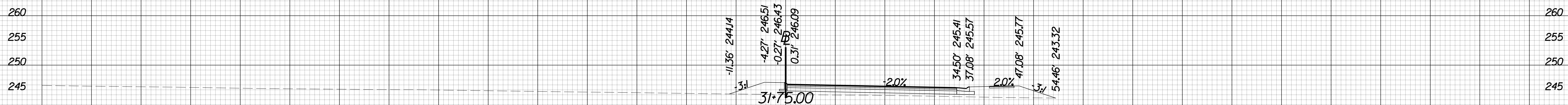
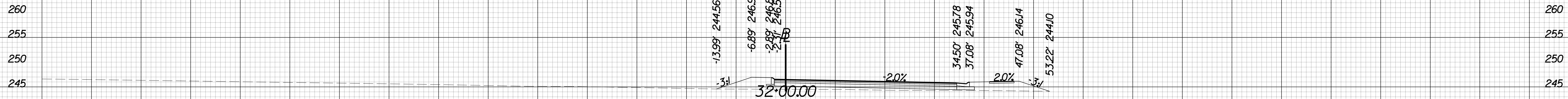
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-24

## University Blvd



Station 31+25.00 To Station 32+00.00

8 TIME \$ST AMPS





PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

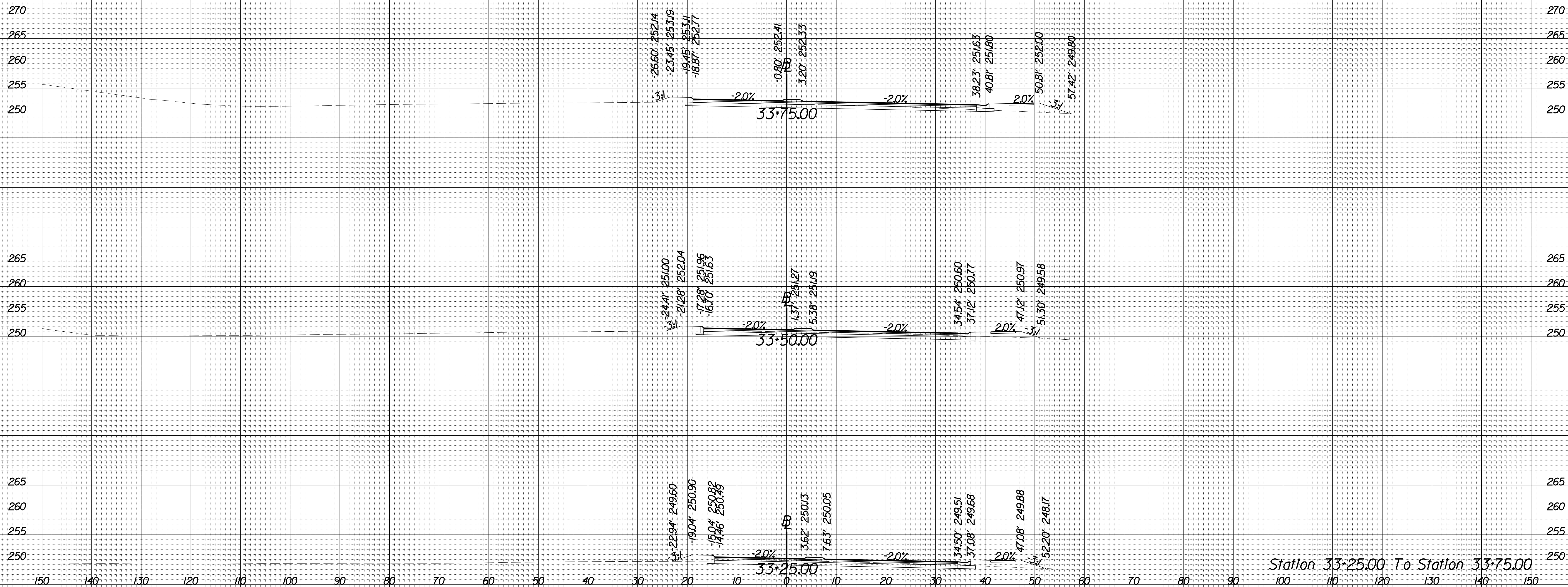
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-26

## University Blvd



Station 33+25.00 To Station 33+75.00



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

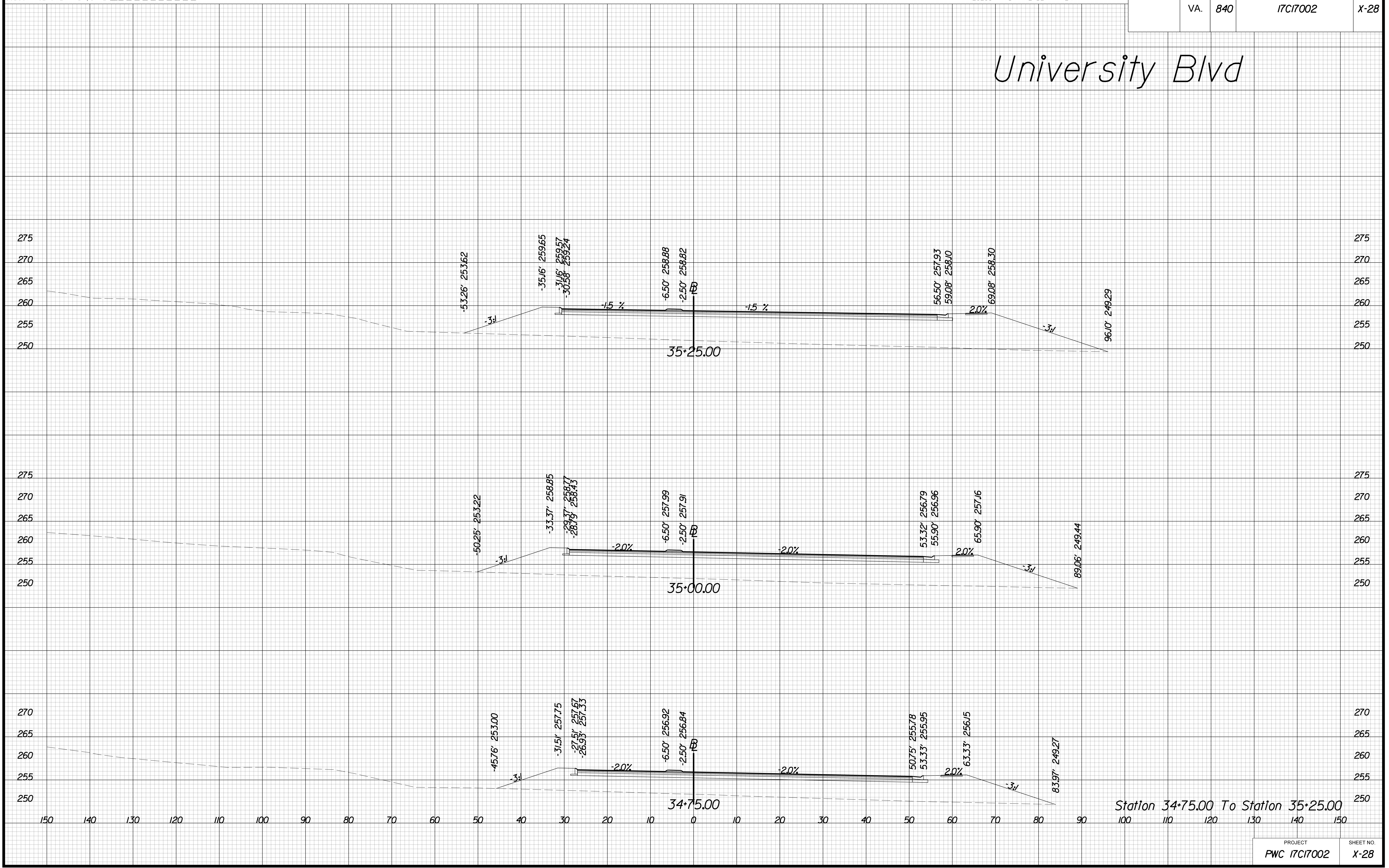
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		17C17002	X-28

## University Blvd



Station 34+75.00 To Station 35+25.00

8/20/16



PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

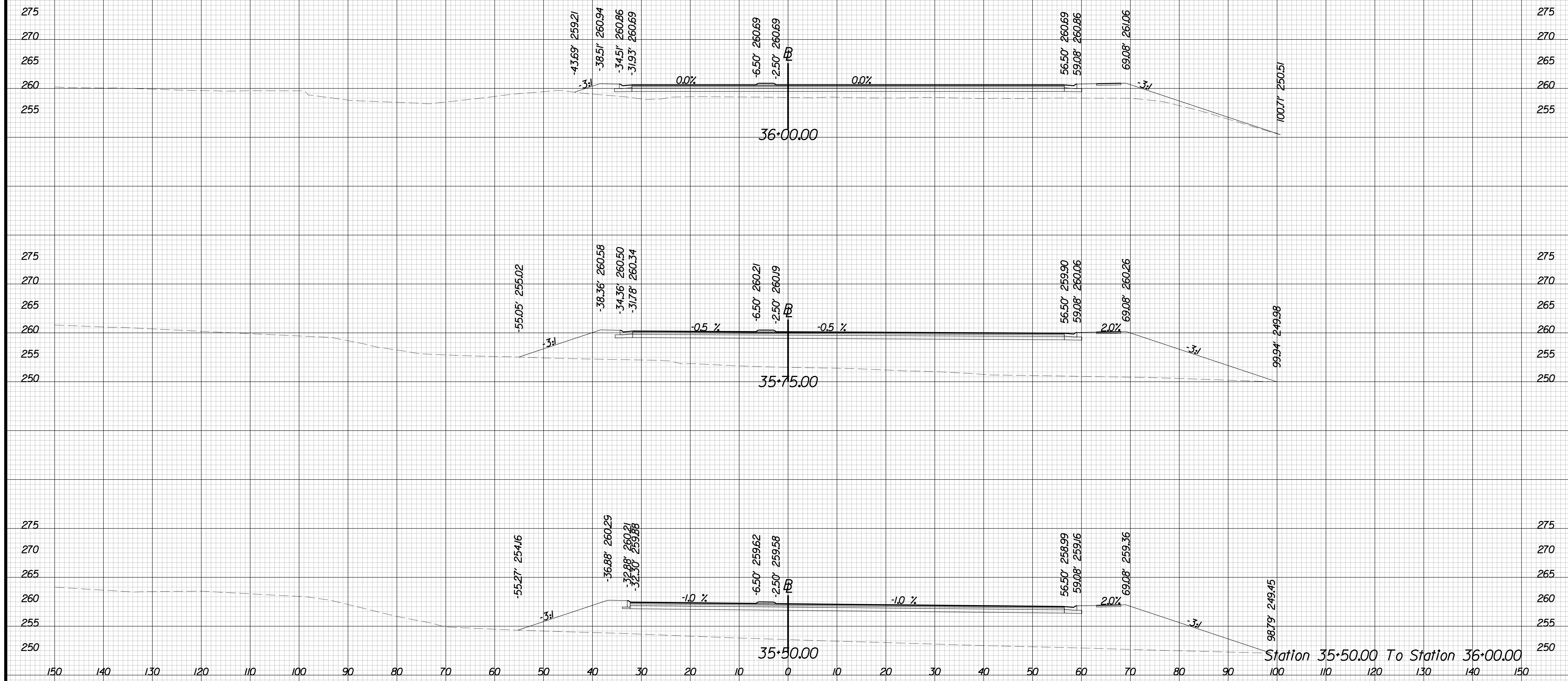
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-29

## University Blvd



8 TIME \$T AMPS

PROJECT MANAGER WWW  
SURVEYED BY, DATE XXX  
DESIGN BY YY  
SUBSURFACE UTILITY BY, DATE ZZZ

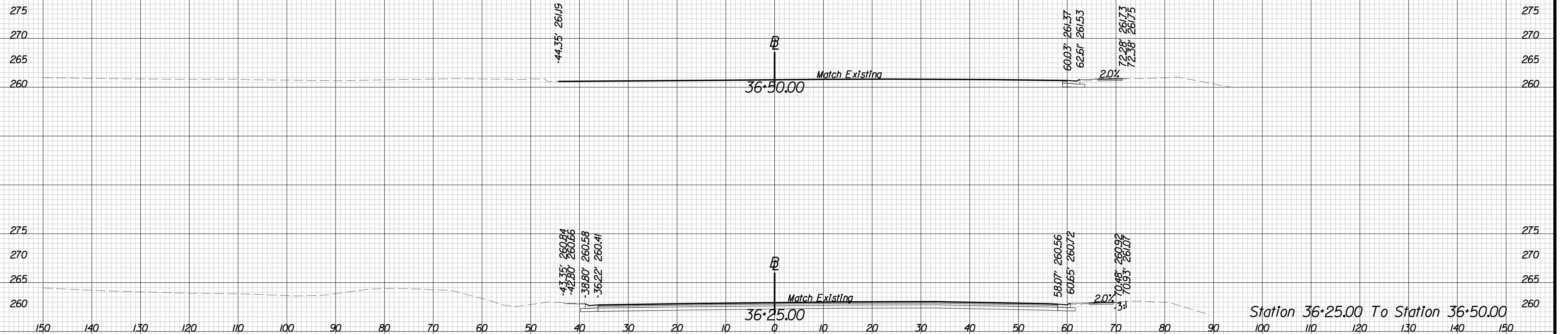
# CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	840		PWC 17C17002	X-30

## University Blvd



Station 36+25.00 To Station 36+50.00