

CULPEPER DISTRICT DESIGN UNIT

FOR INDEX OF SHEETS SEE SHEET 1B

FHWA-534 DATA 14004

STATE	FEDERAL AID	STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT	
VA.	STP-06871) (SEE TABULATION BELOW FOR SECTION NUMBERS)	33	(NFO) 0033-068-626 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN OPENROADS AND GEOPAK PACKAGES.
GEOPAK Computer Identification No. 115475

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
ORANGE COUNTY
US-33 - ROUTE 20 EAST ROUNDABOUT

FROM: 0.191 MILE WEST OF ROUTE 20 EAST
TO: 0.131 MILE EAST OF ROUTE 20 EAST

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA			
Spotswood Hwy. (US-33) - Rural Minor Arterial (GS-2) - Rolling Undivided			
	Fr: Route 20 West To: Route 20 East	Fr: Route 20 East To: WCL Gordonsville	
ADT (2019)	7,825	6,115	
ADT (2045)	9,123	7,113	
DHV	909	653	
D (%) (design hour)	58	55	
T (%) (design hour)	5%	5%	
V (MPH)	⊗ 45 MPH (Design)	⊗ 45 MPH (Design)	
Constitution Hwy. (Rte. 20 E.) - Rural Major Collector (GS-3) - Rolling Undivided [Urban Collector Street (GS-7) Used]			
	Fr: Albemarle County Line To: US-33		
ADT (2018)	2,813		
ADT (2044)	3,312		
DHV	325		
D (%) (design hour)	62		
T (%) (design hour)	4%		
V (MPH)	⊗ 50 MPH (Design)		

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

DESCRIPTION REFERENCE
INTERSECTION OF US-33 & RTE. 20
(US-33 C.B.L. STA. 109+56.46;
RTE. 20 C.B.L. STA. 208+06.78)

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

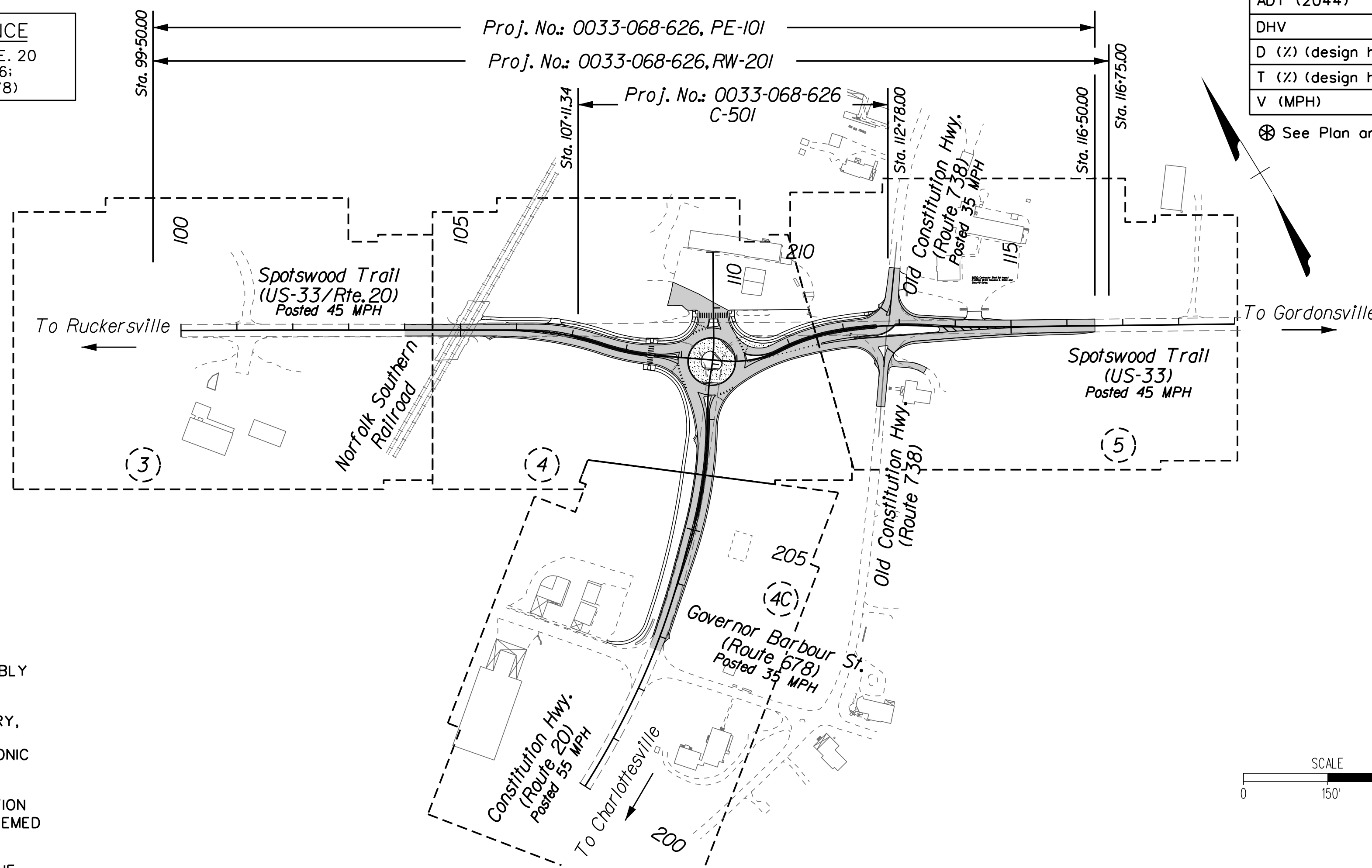
THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE 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 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 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-5.11ULS, EXCEPT WHERE OTHERWISE NOTED.

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Orange County Population 36,254 (2020 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
0033-068-626	PE-101	STP-06871(049)		115475	N/A	1,700.00	0.322	1,700.00	0.322	N/A	Prelim. Eng.	From: - 0.191 MI. WEST OF RTE. 20 To: - 0.131 MI. EAST OF RTE. 20
	RW-201	STP-06871)		115475	N/A	1,725.00	0.327	1,725.00	0.327	N/A	Right of Way	From: - 0.191 MI. WEST OF RTE. 20 To: - 0.136 MI. EAST OF RTE. 20
	C-501	STP-06871)	1000	115475	N/A	566.66	0.107	566.66	0.107	N/A	Construction	From: - 0.046 MI. WEST OF RTE. 20 To: - 0.037 MI. EAST OF RTE. 20

Project Lengths are based on US-33 Construction Baseline

TIER 1 PROJECT	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT ENGINEER/ADMINISTRATOR
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR CONSTRUCTION	
DATE	DISTRICT ENGINEER/ADMINISTRATOR

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PROJECT SHEET NO.
0033-068-626 1

PH PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

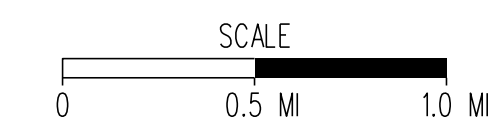
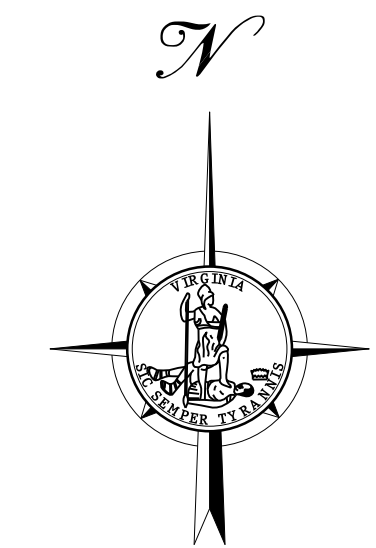
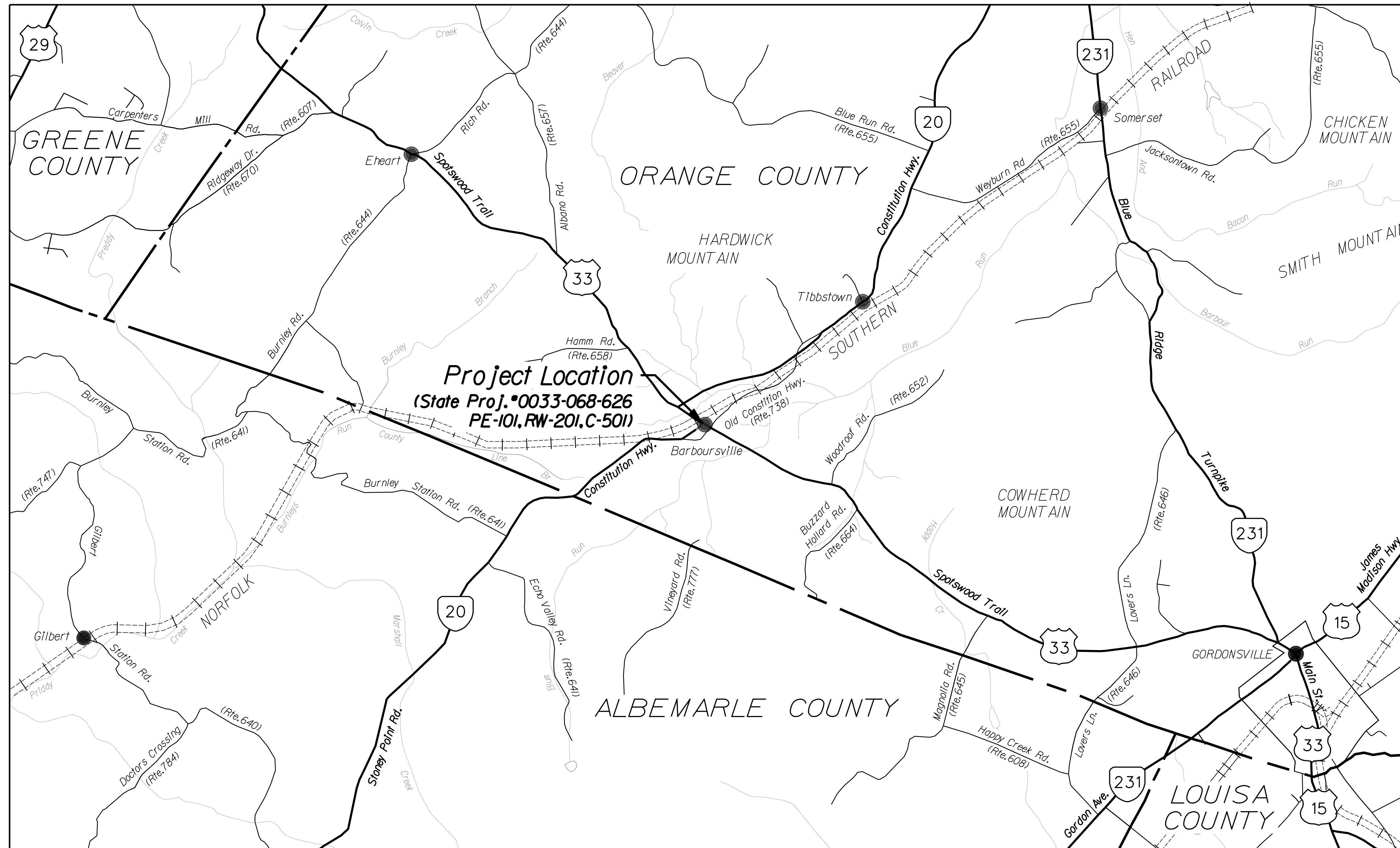
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

PROJECT LOCATION MAP

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-20I, C-50I	1A

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



PROJECT	SHEET NO.
0033-068-626	1A

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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER: Justin D. Worfield, PE (540) 829-7599 (Culpeper District)
 SURVEYED BY, DATE: Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)
 DESIGN BY: Trieu D. Nguyen, PE (540) 829-7524 (Culpeper District)
 SUBSURFACE UTILITY BY, DATE: Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)

SURVEY CONTROL DATA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	IF

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

LD-200 (REV. 10/2014)
Virginia Department of Transportation Horizontal Control
 Control Station I.D.: I- Rod&Cap Date: 01-29-2020

VDOT Project Coordinates (2014) East (X): 11546803.295 ft. North (Y): 6745820.859 ft. Elevation: 498.165 ft.	VA State Plane Coordinates: NAD 83- U.S. Survey Feet East (X): 11546335.7375 ft. North (Y): 6745547.5292 ft. Ortho. Elevation (H): 498.165 ft. Zone: North & South (place an 'X' beside one)
Project Specific Combined Scale Factor: 1.00004052 (9 Decimal Places)	Project Information Project Number: 0033-068-626 Route: 20&33 City/County: Orange Established By: VDOT
Latitude: 38° 10' 17.02399" N (5 Decimal Places) Longitude: 78° 16' 45.84592" W (5 Decimal Places) Geoid Separation (N): -32.540m Ellipsoid Height (h): 119.301m Horizontal Datum: NAD83 Year: 2020 Vertical Datum: NAVD88 Geoid: 18 Azimuth to Station: ___ is ___ Control Based On: Station (Name/PID) _____ or Project (Monument No.): _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula: • 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 (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)

LD-200 (REV. 10/2014)
Virginia Department of Transportation Horizontal Control
 Control Station I.D.: 2- Rod&Cap Date: 01-29-2020

VDOT Project Coordinates (2014) East (X): 11547381.933 ft. North (Y): 6745390.855 ft. Elevation: 511.24 ft.	VA State Plane Coordinates: NAD 83- U.S. Survey Feet East (X): 11546914.0518 ft. North (Y): 6745117.5432 ft. Ortho. Elevation (H): 511.24 ft. Zone: North & South (place an 'X' beside one)
Project Specific Combined Scale Factor: 1.00004052 (9 Decimal Places)	Project Information Project Number: 0033-068-626 Route: 20&33 City/County: Orange Established By: VDOT
Latitude: 38° 10' 12.75948" N (5 Decimal Places) Longitude: 78° 16' 38.61337" W (5 Decimal Places) Geoid Separation (N): -32.534m Ellipsoid Height (h): 123.257m Horizontal Datum: NAD83 Year: 2020 Vertical Datum: NAVD88 Geoid: 18 Azimuth to Station: ___ is ___ Control Based On: Station (Name/PID) _____ or Project (Monument No.): _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula: • 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 (2014) to NAD 83 - U.S. Survey Feet

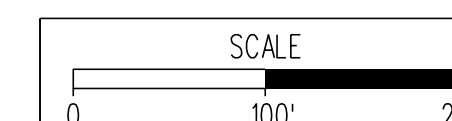
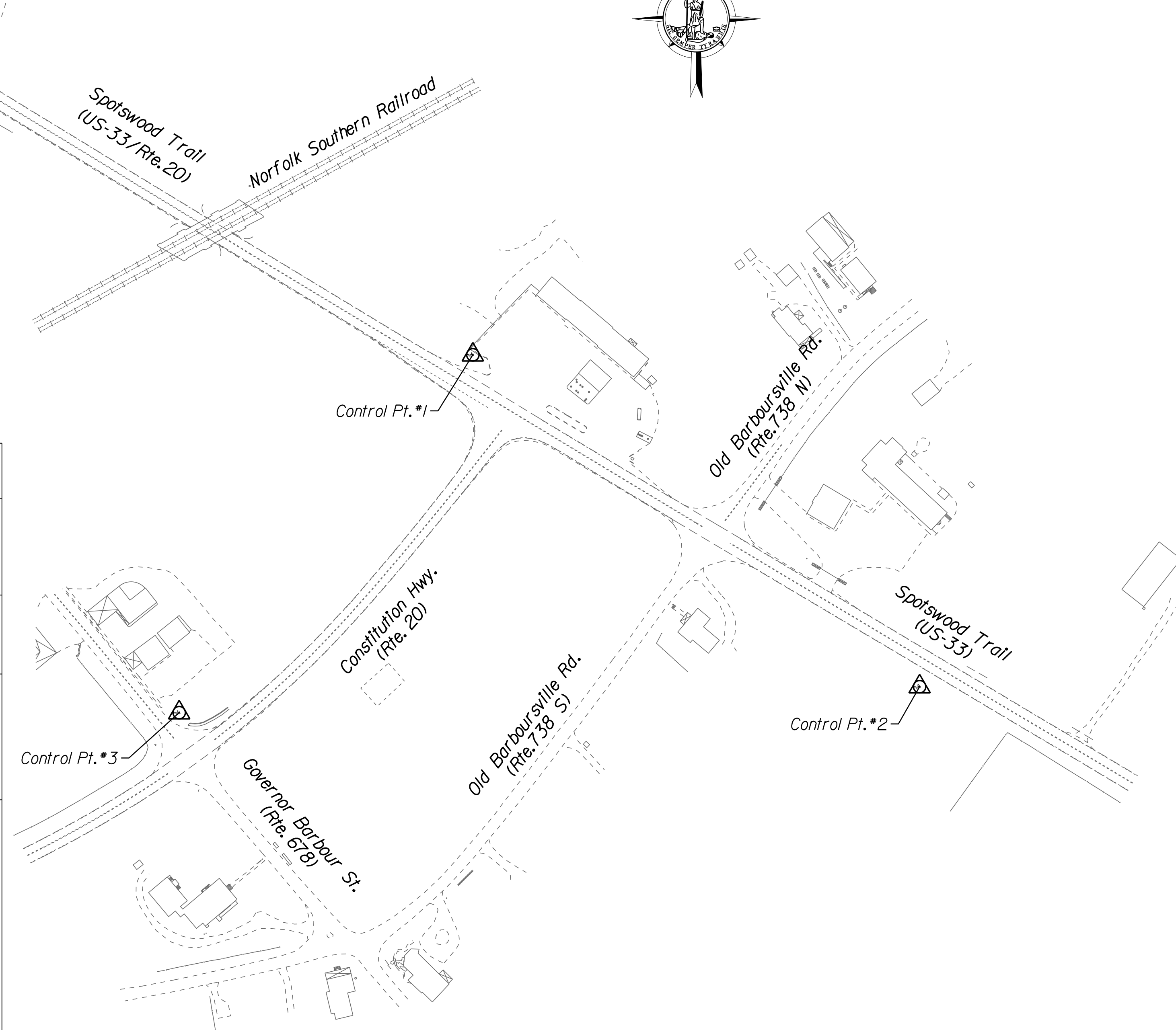
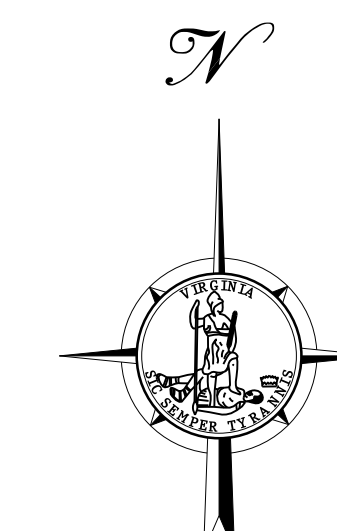
DETAILED SKETCH (Not to Scale)

TAX MAP# 54-187

LD-200 (REV. 10/2014)
Virginia Department of Transportation Horizontal Control
 Control Station I.D.: 3- Rod&Cap Date: 01-29-2020

VDOT Project Coordinates (2014) East (X): 11546422.932 ft. North (Y): 6745357.219 ft. Elevation: 511.3 ft.	VA State Plane Coordinates: NAD 83- U.S. Survey Feet East (X): 11545955.0675 ft. North (Y): 6745083.9778 ft. Ortho. Elevation (H): 511.67 ft. Zone: North & South (place an 'X' beside one)
Project Specific Combined Scale Factor: 1.00004052 (9 Decimal Places)	Project Information Project Number: 0033-068-626 Route: 20&33 City/County: Orange Established By: VDOT
Latitude: 38° 10' 12.45048" N (5 Decimal Places) Longitude: 78° 16' 50.62291" W (5 Decimal Places) Geoid Separation (N): -32.540m Ellipsoid Height (h): 123.264m Horizontal Datum: NAD83 Year: 2020 Vertical Datum: NAVD88 Geoid: 18 Azimuth to Station: ___ is ___ Control Based On: Station (Name/PID) _____ or Project (Monument No.): _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula: • 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 (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



PROJECT
0033-068-626

SHEET NO.
IF

PH PLANS

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SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

CONSTRUCTION ALIGNMENT DATA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	16

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

US-33 (SPOTSWOOD TRAIL) ALIGNMENT DATA

1 CUR RTE_33.3 CUR RTE_33.6 CUR RTE_33.7 CUR RTE_33.10
CUR RTE_33.11 CUR RTE_33.12 CUR RTE_33.13 2

Beginning chain US-33 description
=====

Point 1 N 6,746,244.61 E 11,546,034.35 Est 100+00.00
Course from 1 to PC RTE_33.3 S 58° 49' 04.64" E Dist 152.6616

Curve Data S-1

Curve RTE_33.3
P.I. Station 101+75.00 N 6,746,154.0044 E 11,546,184.0744
Delta = 0° 15' 21.49" (RT)
Degree = 0° 34' 22.65"
Tangent = 22.3376
Length = 44.6752
Radius = 10,000.0000
External = 0.0249
Long Chord = 44.6752
Mid. Ord. = 0.0249
P.C. Station 101+52.66 N 6,746,165.5700 E 11,546,164.9639
P.T. Station 101+97.34 N 6,746,142.3537 E 11,546,203.1330
C.C. N 6,737,610.3042 E 11,540,987.3749
Back = S 58° 49' 04.65" E
Ahead = S 58° 33' 43.15" E
Chord Bear S 58° 41' 23.90" E

Course from PT RTE_33.3 to PC RTE_33.6 S 58° 49' 04.65" E Dist 397.6633

Curve Data S-2

Curve RTE_33.6
P.I. Station 106+76.72 N 6,745,892.3210 E 11,546,612.1418
Delta = 18° 33' 49.79" (RT)
Degree = 11° 27' 32.96"
Tangent = 81.7161
Length = 162.0000
Radius = 500.0000
External = 6.6335
Long Chord = 161.2923
Mid. Ord. = 6.5467
P.C. Station 105+95.00 N 6,745,934.9421 E 11,546,542.4212
P.T. Station 107+57.00 N 6,745,829.7211 E 11,546,664.6659
C.C. N 6,745,508.3397 E 11,546,281.6333
Back = S 58° 33' 43.15" E
Ahead = S 39° 59' 53.36" E
Chord Bear S 49° 16' 48.26" E

Curve Data S-3

Curve RTE_33.7
P.I. Station 108+06.31 N 6,745,791.9503 E 11,546,696.3573
Delta = 14° 03' 14.28" (LT)
Degree = 14° 19' 26.20"
Tangent = 49.3051
Length = 98.1152
Radius = 400.0000
External = 3.0273
Long Chord = 97.8694
Mid. Ord. = 3.0045
P.C. Station 107+57.00 N 6,745,829.7211 E 11,546,664.6659
P.T. Station 108+55.12 N 6,745,763.0058 E 11,546,736.2723
C.C. N 6,746,086.8263 E 11,546,971.0919
Back = S 39° 59' 53.36" E
Ahead = S 54° 03' 07.64" E
Chord Bear S 47° 01' 30.50" E

Course from PT RTE_33.7 to PC RTE_33.10 S 54° 03' 07.64" E Dist 124.8196

Curve Data S-4

Curve RTE_33.10
P.I. Station 110+31.12 N 6,745,659.6846 E 11,546,878.7541
Delta = 31° 44' 42.83" (LT)
Degree = 31° 49' 51.56"
Tangent = 51.1814
Length = 93.7306
Radius = 180.0000
External = 7.1351
Long Chord = 98.4598
Mid. Ord. = 6.8630
P.C. Station 109+79.93 N 6,745,689.7305 E 11,546,837.3202
P.T. Station 110+79.67 N 6,745,655.9338 E 11,546,929.7979
C.C. N 6,745,835.4498 E 11,546,942.9890
Back = S 54° 03' 07.64" E
Ahead = S 85° 47' 50.47" E
Chord Bear S 69° 55' 29.06" E

US-33 (SPOTSWOOD TRAIL) ALIGNMENT DATA CONTINUED

Curve Data S-5

Curve RTE_33.11
P.I. Station 111+31.87 N 6,745,652.1082 E 11,546,981.8594
Delta = 16° 57' 57.86" (RT)
Degree = 16° 22' 12.80"
Tangent = 52.2019
Length = 103.6398
Radius = 350.0000
External = 3.8715
Long Chord = 103.2616
Mid. Ord. = 3.8291
P.C. Station 110+79.67 N 6,745,655.9338 E 11,546,929.7979
P.T. Station 111+83.31 N 6,745,633.2573 E 11,547,030.5388
C.C. N 6,745,306.8749 E 11,546,904.1484
Back = S 85° 47' 50.47" E
Ahead = S 68° 49' 52.61" E
Chord Bear S 77° 18' 51.54" E

Curve Data S-6

Curve RTE_33.12
P.I. Station 112+63.07 N 6,745,604.4542 E 11,547,104.9180
Delta = 13° 00' 30.77" (RT)
Degree = 8° 11' 06.40"
Tangent = 79.7614
Length = 158.8378
Radius = 700.0000
External = 4.5295
Long Chord = 158.4972
Mid. Ord. = 4.5004
P.C. Station 111+83.31 N 6,745,633.2573 E 11,547,030.5388
P.T. Station 113+42.14 N 6,745,559.6565 E 11,547,170.9108
C.C. N 6,744,980.4925 E 11,546,777.7579
Back = S 68° 49' 52.61" E
Ahead = S 55° 49' 48.84" E
Chord Bear S 62° 19' 50.73" E

Curve Data S-7

Curve RTE_33.13
P.I. Station 114+02.00 N 6,745,526.0386 E 11,547,220.4341
Delta = 3° 25' 42.47" (LT)
Degree = 2° 51' 53.24"
Tangent = 59.8559
Length = 119.6760
Radius = 2,000.0000
External = 0.8955
Long Chord = 119.6581
Mid. Ord. = 0.8951
P.C. Station 113+42.14 N 6,745,559.6565 E 11,547,170.9108
P.T. Station 114+61.82 N 6,745,495.4425 E 11,547,271.8793
C.C. N 6,747,214.4106 E 11,548,294.2045
Back = S 55° 49' 48.84" E
Ahead = S 59° 15' 31.31" E
Chord Bear S 57° 32' 40.08" E

Course from PT RTE_33.13 to PC RTE_33.16 S 59° 15' 31.31" E Dist 438.1810
Point 2 N 6,745,271.4608 E 11,547,648.4008 Est 119+00.00

Ending chain US-33 description
=====

ROUTE 20 (CONSTITUTION HWY.) ALIGNMENT DATA

Chain RTE_20 Alignment contains:
CUR RTE_20.1 CUR RTE_20.2 CUR RTE_20.5 CUR RTE_20.6 CUR RTE_20.7 6

Beginning chain RTE_20 description
=====

Curve Data C-1

Curve RTE_20.1
P.I. Station 200+93.16 N 6,745,213.1722 E 11,546,309.2391
Delta = 6° 54' 05.33" (LT)
Degree = 3° 42' 30.47"
Tangent = 93.1630
Length = 186.1008
Radius = 1,545.0000
External = 2.8063
Long Chord = 185.9883
Mid. Ord. = 2.8012
P.C. Station 200+00.00 N 6,745,171.8919 E 11,546,225.7209
P.T. Station 201+86.10 N 6,745,264.1891 E 11,546,387.1919
C.C. N 6,746,556.9436 E 11,545,541.1358
Back = N 63° 41' 54.03" E
Ahead = N 56° 47' 48.69" E
Chord Bear N 60° 14' 51.36" E

ROUTE 20 (CONSTITUTION HWY.) ALIGNMENT DATA CONTINUED

Curve Data C-2

Curve RTE_20.2
P.I. Station 202+81.82 N 6,745,316.6083 E 11,546,467.2872
Delta = 8° 27' 17.99" (LT)
Degree = 4° 25' 27.78"
Tangent = 95.7238
Length = 191.0000
Radius = 1,295.0000
External = 3.5330
Long Chord = 190.9266
Mid. Ord. = 3.5234
P.C. Station 201+86.10 N 6,745,264.1891 E 11,546,387.1919
P.T. Station 203+77.20 N 6,745,380.2344 E 11,546,538.8047
C.C. N 6,746,347.7600 E 11,545,678.0381
Back = N 56° 47' 48.69" E
Ahead = N 48° 20' 30.70" E
Chord Bear N 52° 34' 09.70" E

Course from PT RTE_20.2 to PC RTE_20.5 S 48° 20' 30.70" E Dist 95.3388

Curve Data C-3

Curve RTE_20.5
P.I. Station 205+92.62 N 6,745,523.4233 E 11,546,699.7530
Delta = 17° 43' 41.80" (LT)
Degree = 7° 26' 27.64"
Tangent = 120.0851
Length = 238.2510
Radius = 770.0000
External = 9.3077
Long Chord = 237.3017
Mid. Ord. = 9.1965
P.C. Station 204+72.54 N 6,745,443.6046 E 11,546,610.0346
P.T. Station 207+10.79 N 6,745,626.7711 E 11,546,760.9058
C.C. N 6,746,018.8901 E 11,546,098.2274
Back = N 48° 20' 30.70" E
Ahead = N 30° 36' 48.90" E
Chord Bear N 39° 28' 39.80" E

Curve Data C-4

Curve RTE_20.6
P.I. Station 207+48.95 N 6,745,659.6145 E 11,546,780.3399
Delta = 10° 53' 59.10" (RT)
Degree = 14° 19' 26.20"
Tangent = 38.1625
Length = 76.0946
Radius = 400.0000
External = 1.8163
Long Chord = 75.9799
Mid. Ord. = 1.8081
P.C. Station 207+10.79 N 6,745,626.7711 E 11,546,760.9058
P.T. Station 207+86.89 N 6,745,688.1906 E 11,546,805.6338
C.C. N 6,745,423.0729 E 11,547,105.1544
Back = N 30° 36' 48.90" E
Ahead = N 41° 30' 48.00" E
Chord Bear N 36° 03' 48.45" E

Curve Data C-5

Curve RTE_20.7
P.I. Station 208+14.56 N 6,745,708.9171 E 11,546,823.9796
Delta = 10° 32' 34.64" (LT)
Degree = 19° 05' 54.94"
Tangent = 27.6795
Length = 55.2028
Radius = 300.0000
External = 1.2742
Long Chord = 55.1249
Mid. Ord. = 1.2688
P.C. Station 207+86.89 N 6,745,688.1906 E 11,546,805.6338
P.T. Station 208+42.09 N 6,745,732.6505 E 11,546,838.2233
C.C. N 6,745,887.0289 E 11,546,580.9933
Back = N 41° 30' 48.00" E
Ahead = N 30° 58' 13.36" E
Chord Bear N 36° 14' 30.68" E

Course from PT RTE_20.7 to PC RTE_20.8 S 36° 14' 30.68" E Dist 157.9122
Point 6 N 6,745,868.0407 E 11,546,919.4004 Est 210+00.00

Ending chain RTE_20 description
=====

ROTARY ALIGNMENT DATA

Chain Roundabout contains:
CUR ROUNDABOUT

Beginning chain ROUNDABOUT description
=====

Curve Data R

Curve ROUNDABOUT
P.I. Station 10+00.00 N 6,745,737.4781 E 11,546,792.6730
Delta = 359° 59' 59.40" (LT)
Degree = 136° 25' 06.68"
Tangent = 0.0001
Length = 263.8937
Radius = 42.0000
External = 84.0000
Long Chord = 0.0001
Mid. Ord. = 84.0000
P.C. Station 10+00.00 N 6,745,737.4781 E 11,546,792.6730
P.T. Station 12+63.89 N 6,745,737.4781 E 11,546,792.6730
C.C. N 6,745,702.1489 E 11,546,815.3702
Back = S 57° 17' 18.42" W
Ahead = S 57° 17' 19.01" W
Chord Bear N 57° 17' 18.38" E

Ending chain ROUNDABOUT description
=====

ROUTE 738 N (OLD BARBOURSVILLE RD.) ALIGNMENT DATA

Chain RTE_738N contains:
4 5

Beginning chain RTE_738N description
=====

Point 4 N 6,745,591.7456 E 11,547,118.8889 Est 1+00.00
Course from 4 to PC RTE_738.1 S 37° 00' 17.94" E Dist 150.0000

Point 5 N 6,745,711.5311 E 11,547,209.1706 Est 2+50.00
Ending chain RTE_738N description
=====

ROUTE 738 S (OLD BARBOURSVILLE RD.) ALIGNMENT DATA

Chain RTE_738S contains:
7 8

Beginning chain RTE_738S description
=====

Point 7 N 6,745,593.2020 E 11,547,116.2656 Est 1+00.00
Course from 7 to PC RTE_738.2 S 35° 42' 06.29" E Dist 200.0000

Point 8 N 6,745,430.7809 E 11,546,999.5566 Est 3+00.00
Ending chain RTE_738S description
=====

PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: SUGGESTED SEQUENCE OF CONSTRUCTION

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	33	(NFO) 0033-068-626 RW-201, C-50i	1K(1)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				

PHASE 1:

PROPOSED PHASE 1 CONSTRUCTION SEQUENCE:

1. WORK AREA 1A-1, WORK AREA 1A-2, WORK AREA 1A-3, WORK AREA 1A
2. WORK AREA 1B-1, WORK AREA 1B-2, WORK AREA 1B-3, WORK AREA 1B
3. WORK AREA 1C-1, WORK AREA 1C
4. WORK AREA 1D, WORK AREA 1E

WORK AREA TRAFFIC CONTROL IMPLEMENTATION:

1. WORK AREA 1A-1, WORK AREA 1A-2, WORK AREA 1A-3, WORK AREA 1B-1
 - A. The Contractor shall implement TTC-23.2 "Lane Closure on a Two-Lane Roadway Using Flaggers" to install proposed storm sewer pipe across US-33.
 - B. The Contractor shall perform lane closure in alternating side of US-33 to complete storm sewer pipe installation when the pipe extend across both EB and WB lane.
2. WORK AREA 1B-2, WORK AREA 1C-1
 - A. The Contractor shall implement TTC-28.2 "Lane Closure Operation in an Intersection" in alternating side of the US-33/Rte. 20 for storm sewer pipe installation across the roadway.
3. WORK AREA 1A, WORK AREA 1B, WORK AREA 1C, WORK AREA 1E:
 - A. The Contractor shall implement TTC-23.2 "Lane Closure on a Two-Lane Roadway Using Flaggers" or TTC-28.2 "Lane Closure Operation in an Intersection" when construction activities are located within the clear zone (as detailed in the VWAPM Appendix A Figure 2).
 - B. The Contractor shall implement TTC-4J "Stationary Operation on a Shoulder" on the adjacent roadway when construction activities are outside of the clear zone.
4. WORK AREA 1B-3:
 - A. When installing the storm structure and sewer pipe across D's Market western entrance, the Contractor shall temporarily close the entrance and direct store's traffic onto the eastern entrance. Contractor shall not impact the operation of the store and the gas pumps.
 - B. The Contractor shall implement TTC-28.2 "Lane Closure Operation in an Intersection" for the construction activities.
5. WORK AREA 1D:
 - A. For the reconstruction of Old Barboursville Rd. (South) connection to US-33, the Contractor shall detour local traffic onto Constitution Hwy. (Rte. 20)
 - B. The Contractor shall implement TTC-28.2 "Lane Closure Operation in an Intersection" when construction activities are located within the clear zone of EB US-33 (as detailed in the VWAPM Appendix A Figure 2).

END OF PHASE 1 ACTIVITIES

- A. At the end of Phase 1 construction, the Contractor shall implement TTC-28.2 "Lane Closure Operation in an Intersection" (in stages) for asphalt milling operation and variable pavement build-up (to top of 1M Course) activities on US-33, Rte. 20, and D's Market western entrance. Contractor to ensure smooth transition among the various pavement surfaces (existing, proposed, and temporary pavements) and ensure no abrupt change of grade for Phase 2 travel way.
- B. The Contractor shall then apply pavement markings and install temporary signage as layout in Phase 2 (IM Sheet Series). Any existing pavement markings that are in conflict with the new pavement marking pattern shall be eradicated.
- C. Any drainage structure that will be exposed to traffic will have traffic rated temporary manhole top.

PHASE 2:

PROPOSED PHASE 2 CONSTRUCTION SEQUENCE:

1. WORK AREA 2A
2. WORK AREA 2B
3. WORK AREA 2C, WORK AREA 2D
4. WORK AREA 2E

WORK AREA TRAFFIC CONTROL IMPLEMENTATION:

1. WORK AREA 2A:
 - A. The Contractor shall implement TTC-3I.2 "Flagging Operation on a Single Lane Roundabout" when construction activities are located within the clear zone (as detailed in the VWAPM Appendix A Figure 2).
 - B. The Contractor to construct central island, central island truck apron, and associated drainage.
2. WORK AREAS 2B:
 - A. The Contractor shall implement TTC-4J "Stationary Operation on a Shoulder" and TTC-5.2 "Shoulder Operation with Minor Encroachment" on WB US-33. Contractor shall also implement TTC-5.2 "Shoulder Operation with Minor Encroachment" on SB Rte. 738 N.
 - B. The Contractor shall implement TTC-3I.2 "Flagging Operation on a Single Lane Roundabout" when construction activities are located within the clear zone of WB US-33 (as detailed in the VWAPM Appendix A Figure 2).
3. WORK AREA 2C, WORK AREA 2D:
 - A. The Contractor shall implement TTC-28.2 "Lane Closure Operation in an Intersection" in alternating side of the US-33/Rte. 738 for storm sewer pipe installation across the roadway.
4. WORK AREA 2E:
 - A. The Contractor shall implement TTC-28.2 "Lane Closure Operation in an Intersection" for the construction of pavement and drainage features.

END OF PHASE 2 ACTIVITIES

- A. At the end of Phase 2 construction, the Contractor shall implement TTC-3I.2 "Flagging Operation on a Single Lane Roundabout" (in stages) to apply pavement markings as layout in Phase 3 (IM sheet series). Any pavement markings that are in conflict with the new pavement marking pattern shall be eradicated.

PHASE 3:

PROPOSED PHASE 3 CONSTRUCTION SEQUENCE:

1. WORK AREA 3A
2. WORK AREA 3B
3. WORK AREA 3C
4. WORK AREA 3D

WORK AREA TRAFFIC CONTROL IMPLEMENTATION:

1. WORK AREAS 3A, 3B, 3C, 3D:
 - A. The Contractor shall implement TTC-3I.2 "Flagging Operation on a Single Lane Roundabout" to perform construction activities within the Work Areas. Only one Work Area may be active at any time.
 - B. The Contractor to install drainage elements, construct roadway design elements, and perform grading activities as depicted on IM sheet series.

PHASE 4:

PROPOSED PHASE 4 CONSTRUCTION SEQUENCE:

1. WORK AREA 4A
2. WORK AREA 4B
(Only one WORK AREA shall be active at any time.)

WORK AREA TRAFFIC CONTROL IMPLEMENTATION:

1. WORK AREAS 4A:
 - A. The Contractor shall implement TTC-3I.2 "Flagging Operation on a Single Lane Roundabout" to perform construction activities within the Work Area.
 - B. Contractor to construct proposed MS-1.
2. WORK AREAS 4B:
 - A. The Contractor shall implement TTC-3I.2 "Flagging Operation on a Single Lane Roundabout" at the US-33/Rte. 20 Intersection and implement TTC-34.2 "Street Closure Operation with Detour" for Rte. 738. Both Rte. 738 N and Rte. 738 S traffic will be detoured onto Rte. 20.
 - B. Contractor to construct proposed MS-1.

PHASE 5:

1. NOT DEPICTED

- A. The Contractor shall implement TTC-3I.2 "Flagging Operation on a Single Lane Roundabout" to perform final paving and striping activities on US-33, Rte. 20, and Rte. 738.

PROJECT	SHEET NO.
0033-068-626	1K(1)

PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

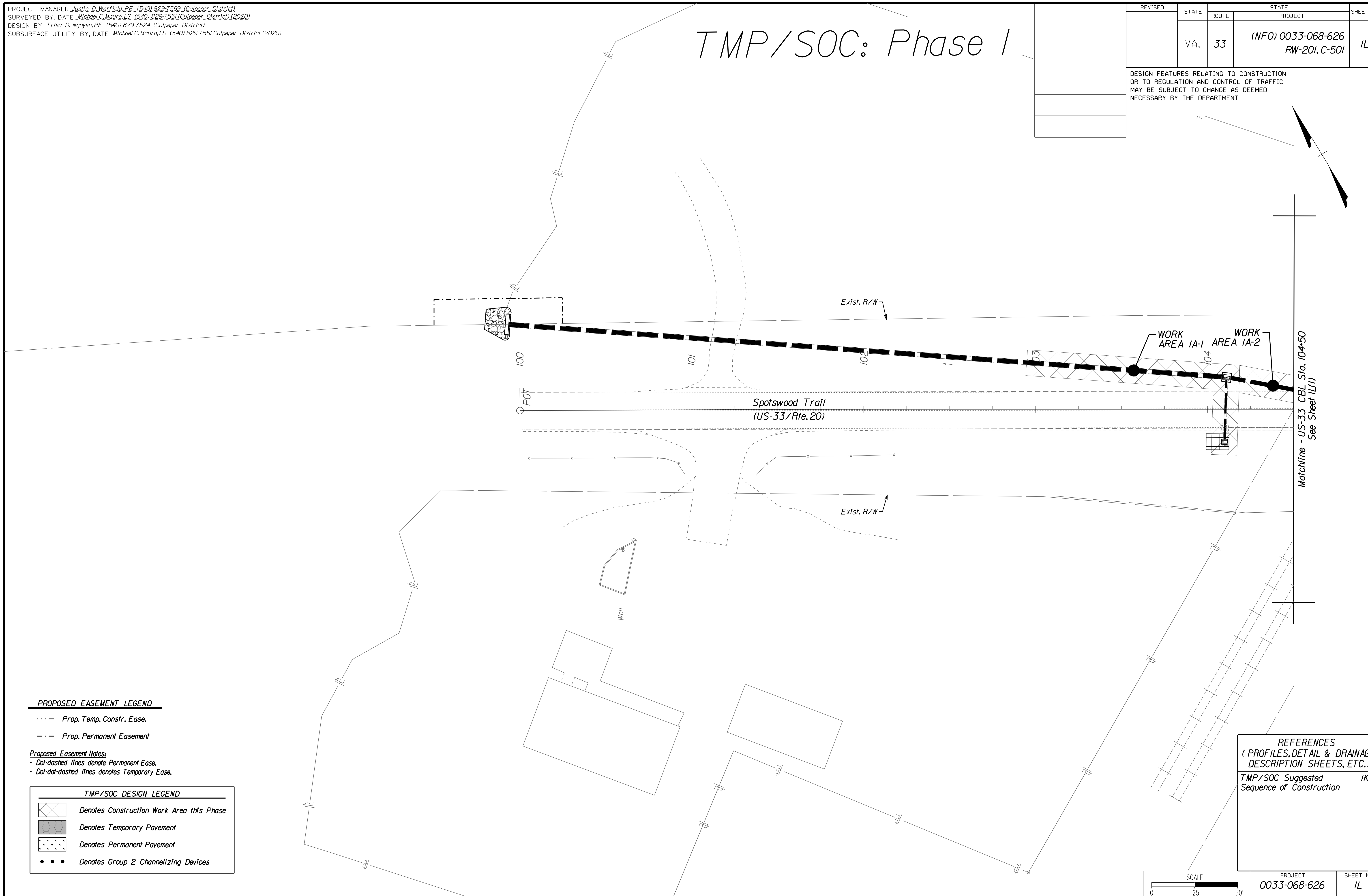
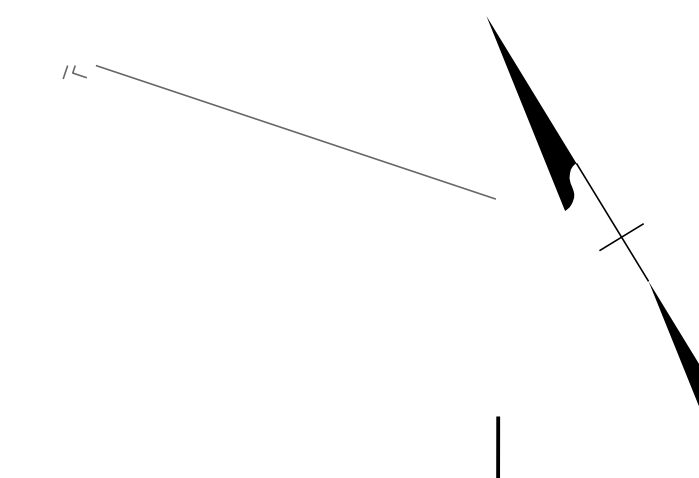
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase I

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	1L

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



PROPOSED EASEMENT LEGEND

- - - Prop. Temp. Constr. Ease.
- - - Prop. Permanent Easement

Proposed Easement Notes:

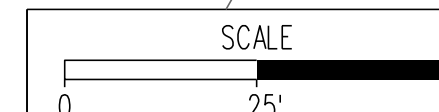
- Dot-dashed lines denote Permanent Ease.
- Dot-dot-dashed lines denotes Temporary Ease.

TMP/SOC DESIGN LEGEND

- Denotes Construction Work Area this Phase
- Denotes Temporary Pavement
- Denotes Permanent Pavement
- Denotes Group 2 Channelling Devices

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1L

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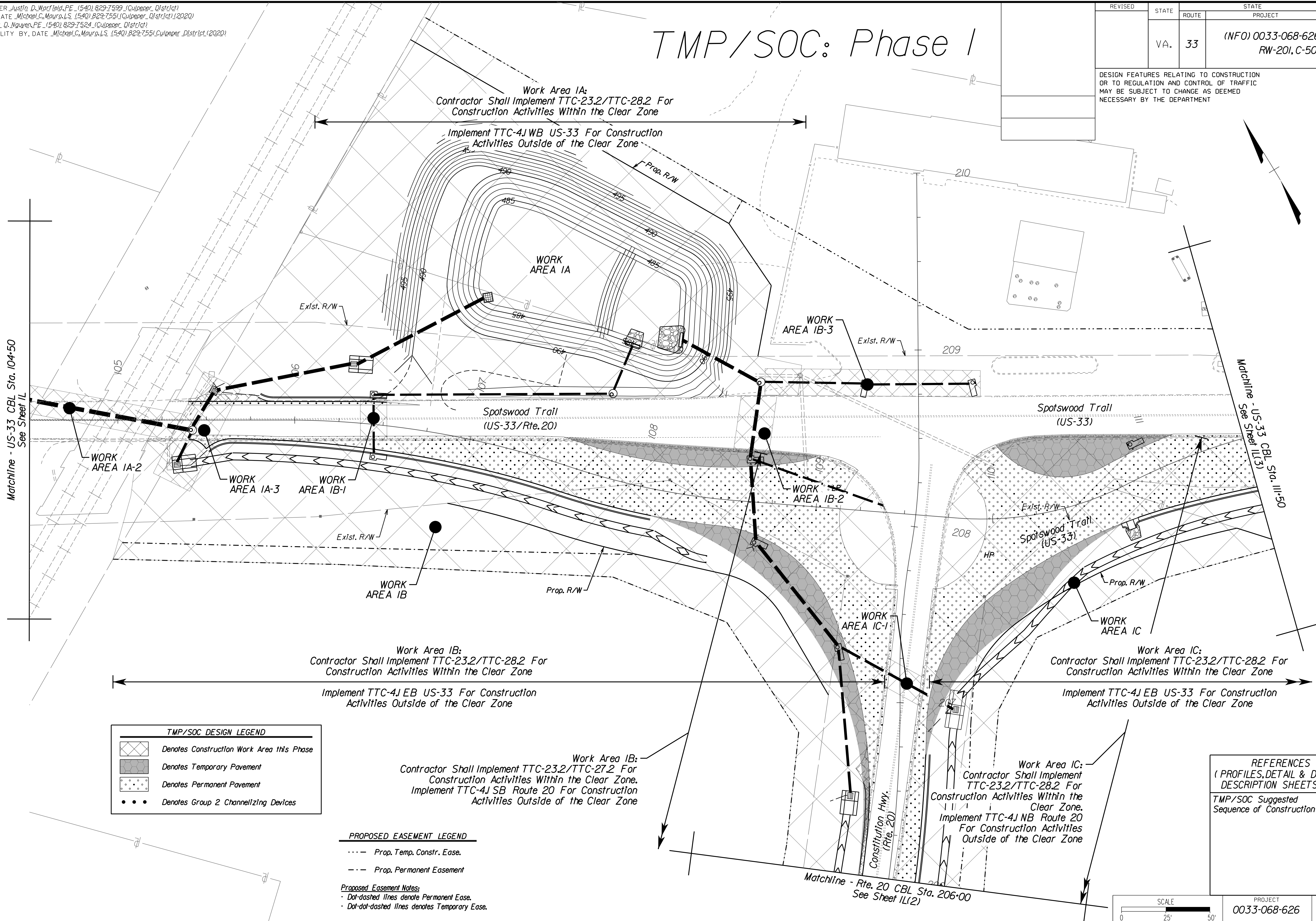
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase I

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	1L(1)

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



TMP/SOC DESIGN LEGEND

	Denotes Construction Work Area this Phase
	Denotes Temporary Pavement
	Denotes Permanent Pavement
	Denotes Group 2 Channelizing Devices

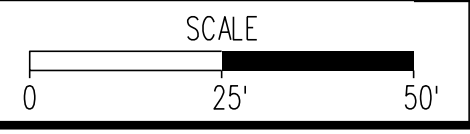
PROPOSED EASEMENT LEGEND

	Prop. Temp. Constr. Ease.
	Prop. Permanent Easement

Proposed Easement Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

TMP/SOC Suggested Sequence of Construction	1K(1)
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PROJECT	SHEET NO.
0033-068-626	1L(1)

PH PLANS

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CULPEPER DISTRICT DESIGN UNIT

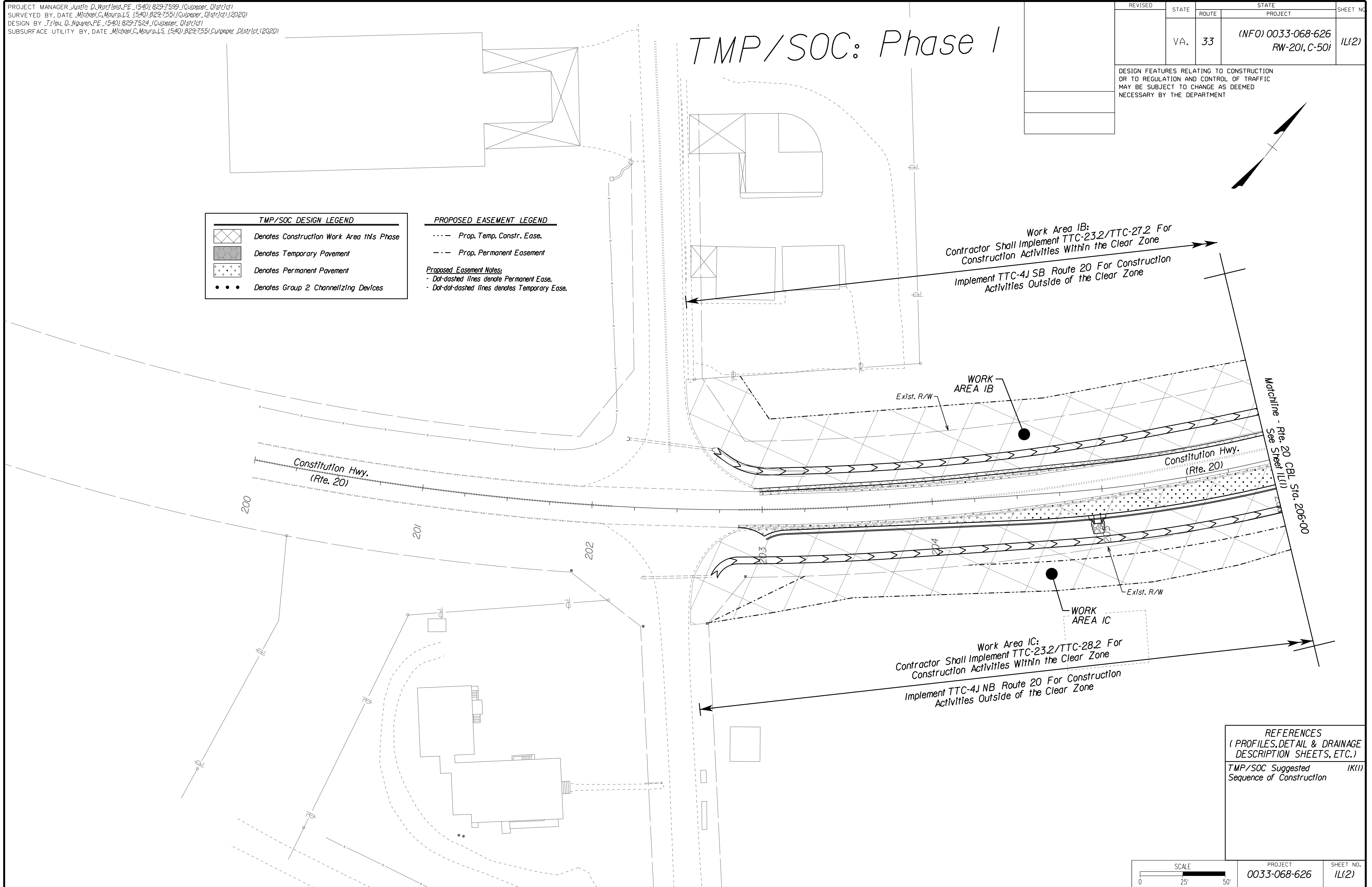
PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

REVISED	STATE		PROJECT		SHEET NO.
	STATE	ROUTE	PROJECT	PROJECT	
	VA.	33	(INFO) 0033-068-626 RW-20I, C-50I		1L(2)

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

TMP/SOC: Phase I

TMP/SOC DESIGN LEGEND		PROPOSED EASEMENT LEGEND	
	Denotes Construction Work Area this Phase		Prop. Temp. Constr. Ease.
	Denotes Temporary Pavement		Prop. Permanent Easement
	Denotes Permanent Pavement	Proposed Easement Notes:	
	Denotes Group 2 Channelizing Devices	- Dot-dashed lines denote Permanent Ease.	
		- Dot-dot-dashed lines denotes Temporary Ease.	



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 TMP/SOC Suggested Sequence of Construction 1K(1)

SCALE 0 25' 50'	PROJECT 0033-068-626	SHEET NO. 1L(2)
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PH PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

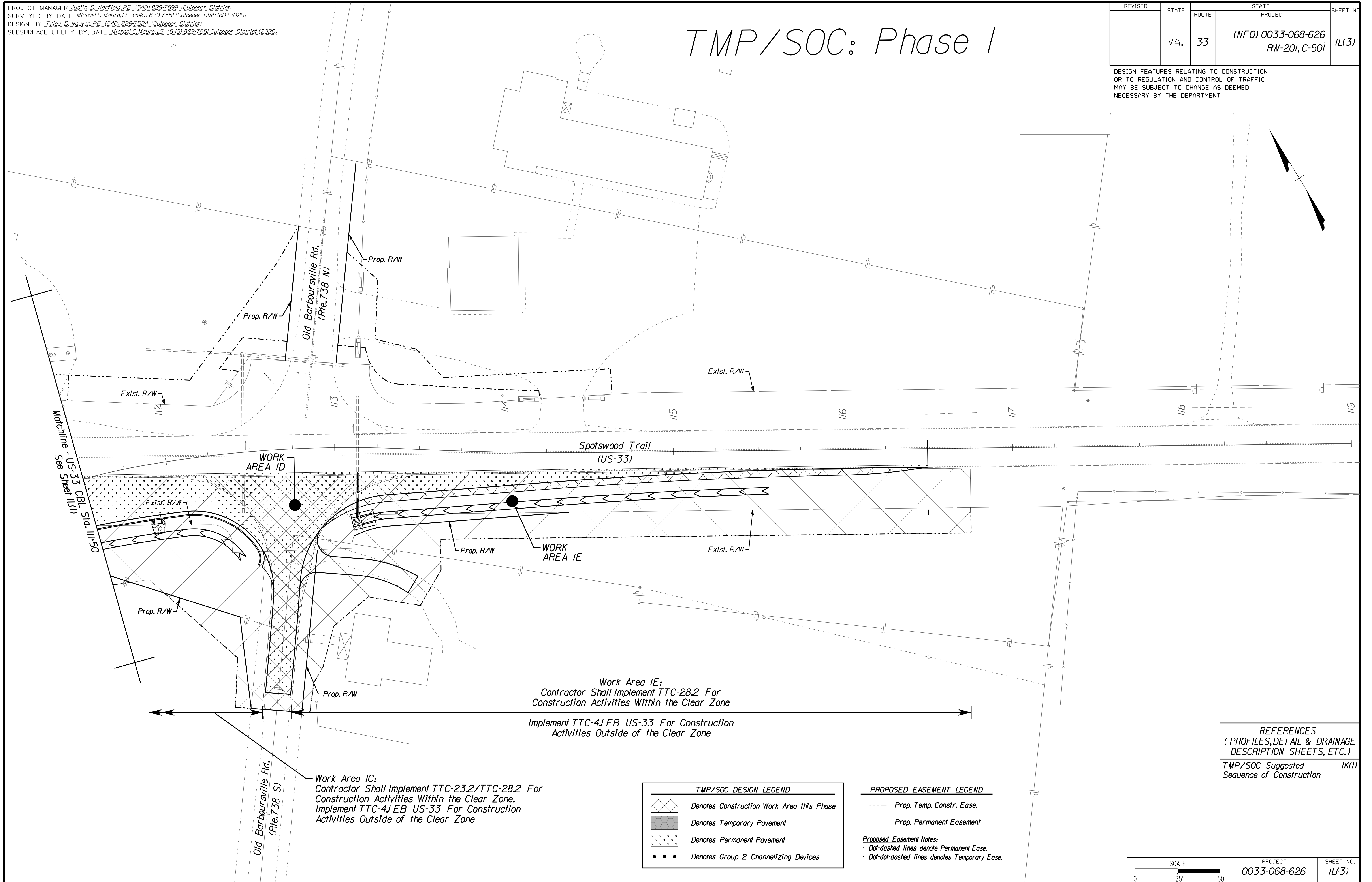
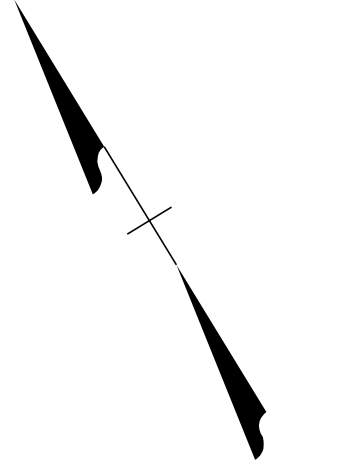
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase I

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	1L(3)

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



WORK AREA ID

WORK AREA IE

Work Area IC:
Contractor Shall Implement TTC-23.2/TTC-28.2 For Construction Activities Within the Clear Zone.
Implement TTC-4J EB US-33 For Construction Activities Outside of the Clear Zone

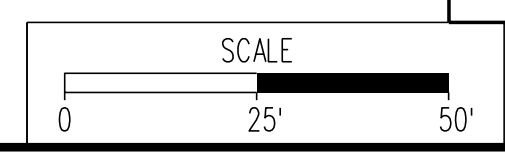
Work Area IE:
Contractor Shall Implement TTC-28.2 For Construction Activities Within the Clear Zone
Implement TTC-4J EB US-33 For Construction Activities Outside of the Clear Zone

TMP/SOC DESIGN LEGEND	
	Denotes Construction Work Area this Phase
	Denotes Temporary Pavement
	Denotes Permanent Pavement
	Denotes Group 2 Channelizing Devices

PROPOSED EASEMENT LEGEND	
	Prop. Temp. Constr. Ease.
	Prop. Permanent Easement

Proposed Easement Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1L(3)

PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

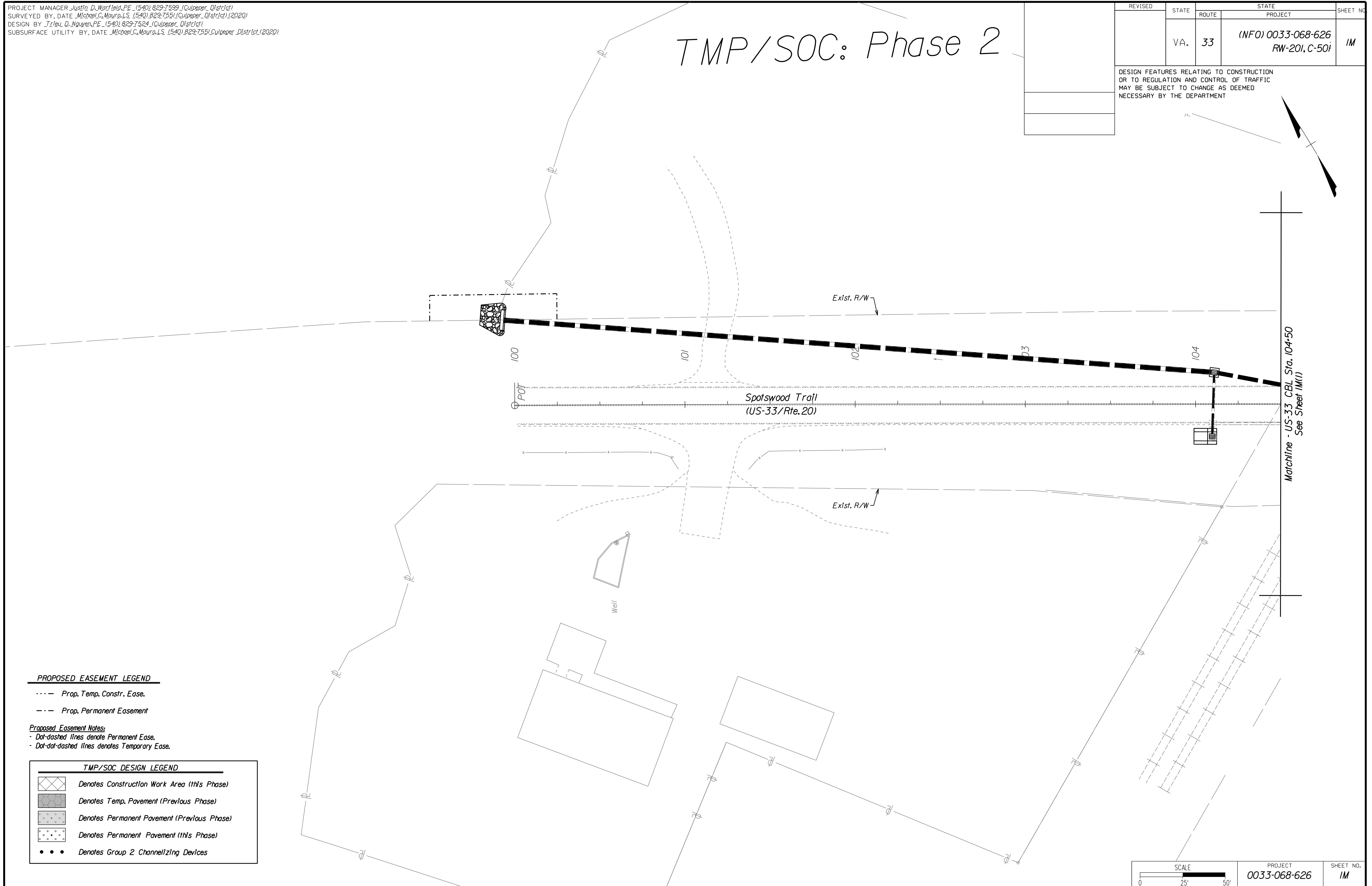
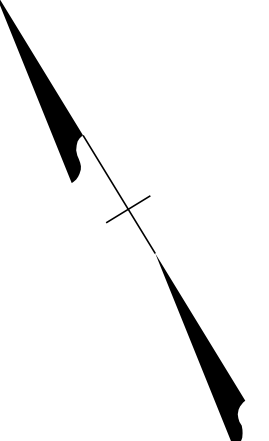
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 2

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO)	0033-068-626 RW-201, C-50i	IM

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



PROPOSED EASEMENT LEGEND

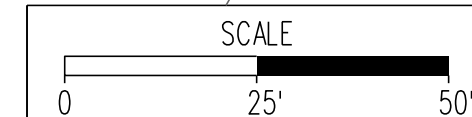
- - - Prop. Temp. Constr. Ease.
- - - Prop. Permanent Easement

Proposed Easement Notes:

- Dot-dashed lines denote Permanent Ease.
- Dot-dot-dashed lines denotes Temporary Ease.

TMP/SOC DESIGN LEGEND

- Denotes Construction Work Area (this Phase)
- Denotes Temp. Pavement (Previous Phase)
- Denotes Permanent Pavement (Previous Phase)
- Denotes Permanent Pavement (this Phase)
- Denotes Group 2 Channelizing Devices



PROJECT 0033-068-626 SHEET NO. IM

PH PLANS

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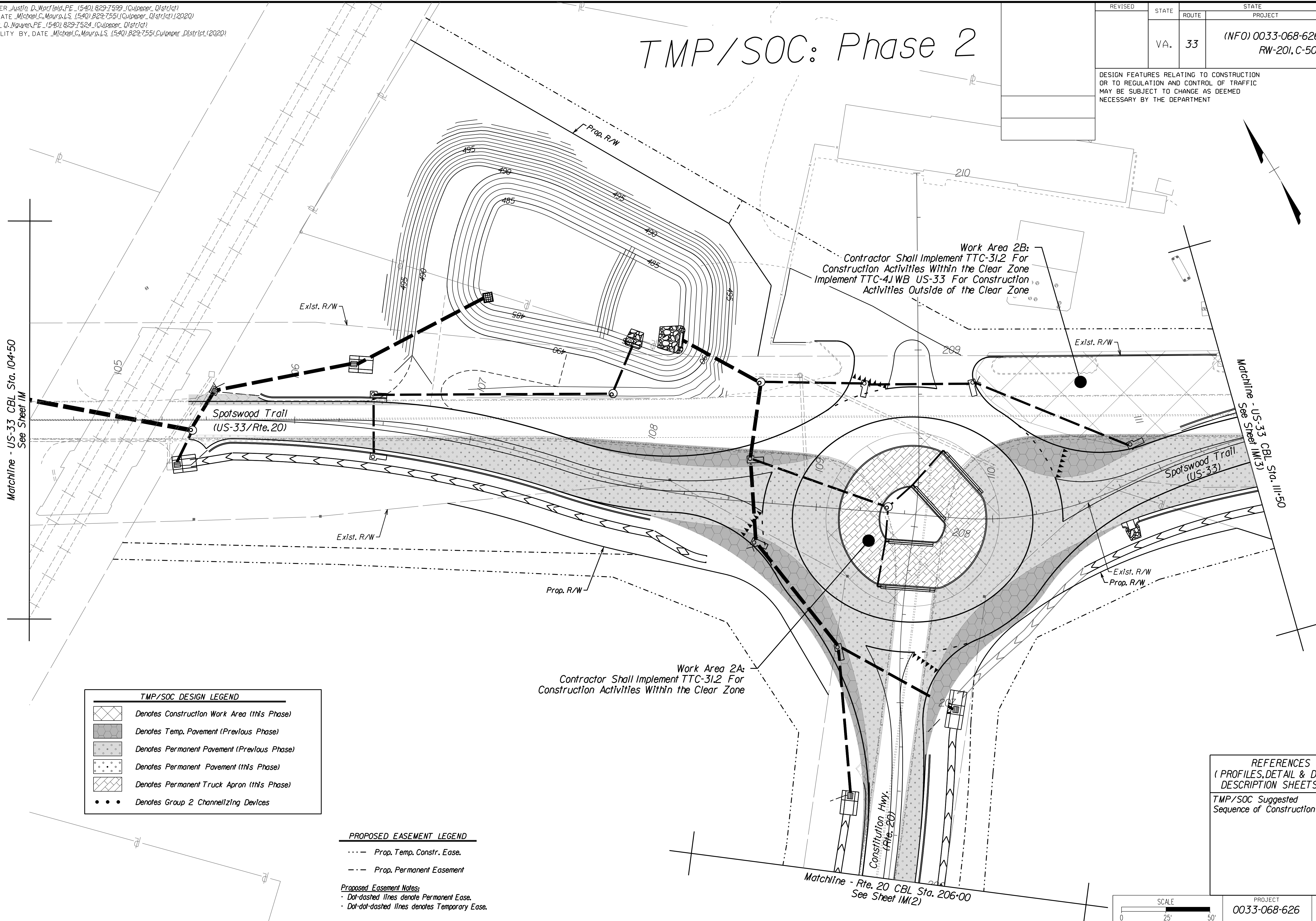
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 2

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	1M(1)

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



TMP/SOC DESIGN LEGEND

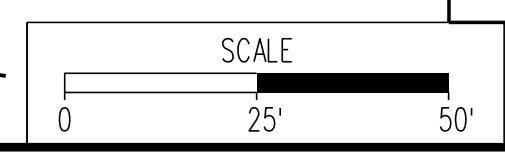
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	Denotes Permanent Pavement (this Phase)
	Denotes Permanent Truck Apron (this Phase)
	Denotes Group 2 Channelling Devices

PROPOSED EASEMENT LEGEND

	Prop. Temp. Constr. Ease.
	Prop. Permanent Easement

Proposed Easement Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1M(1)

PH PLANS

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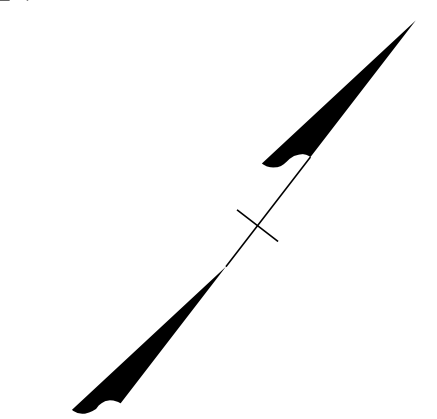
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	1M(2)

TMP/SOC: Phase 2

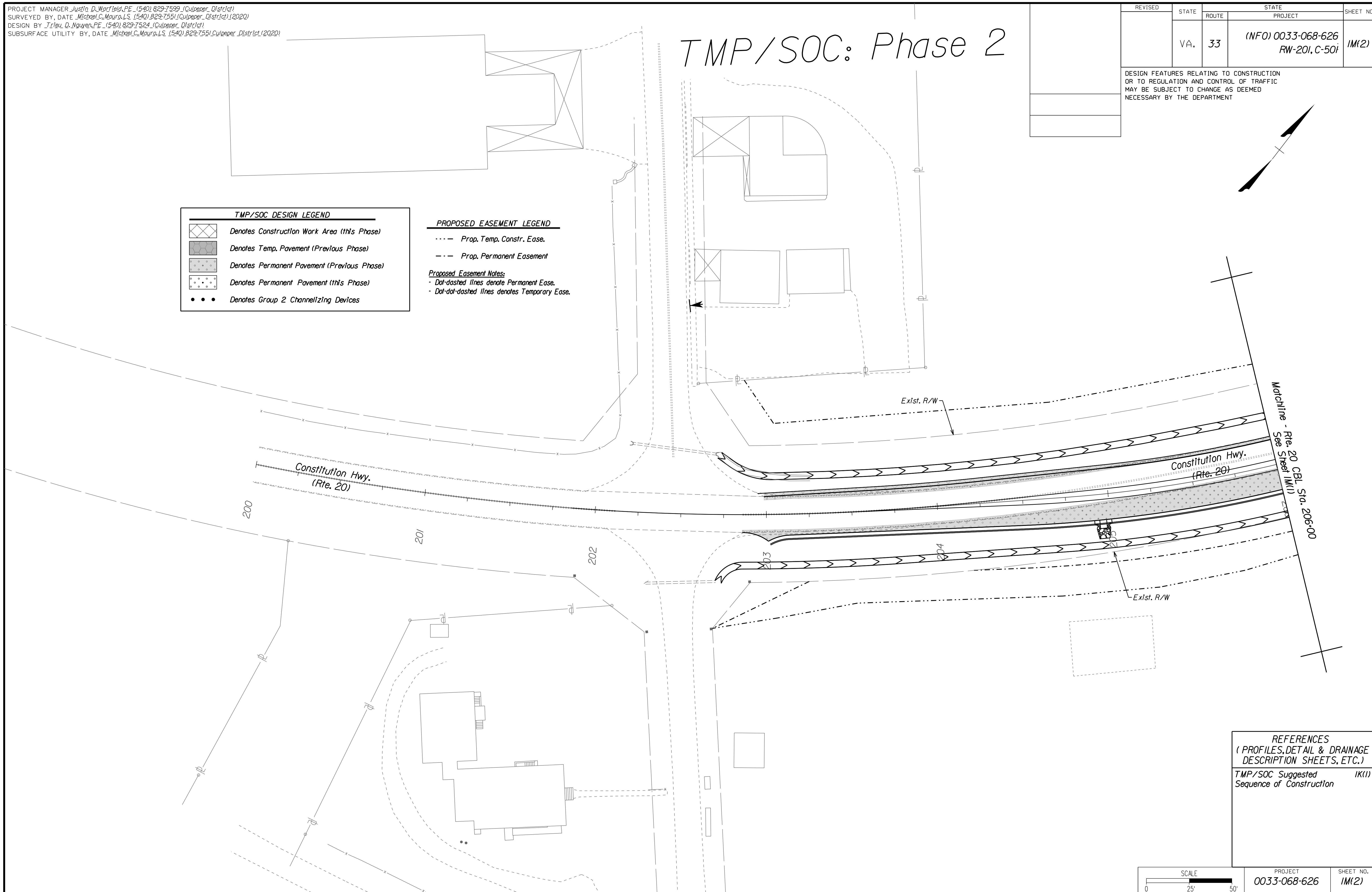
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



TMP/SOC DESIGN LEGEND	
	Denotes Construction Work Area (this Phase)
	Denotes Temp. Pavement (Previous Phase)
	Denotes Permanent Pavement (Previous Phase)
	Denotes Permanent Pavement (this Phase)
	Denotes Group 2 Channelizing Devices

PROPOSED EASEMENT LEGEND

- Prop. Temp. Constr. Ease.
 - - - Prop. Permanent Easement
- Proposed Easement Notes:**
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.



Matchline - Rte. 20 CBL Sta. 206+00
See Sheet 1M(1)

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 TMP/SOC Suggested Sequence of Construction 1K(1)

SCALE 0 25' 50'	PROJECT 0033-068-626	SHEET NO. 1M(2)
--------------------	-------------------------	--------------------

PH PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

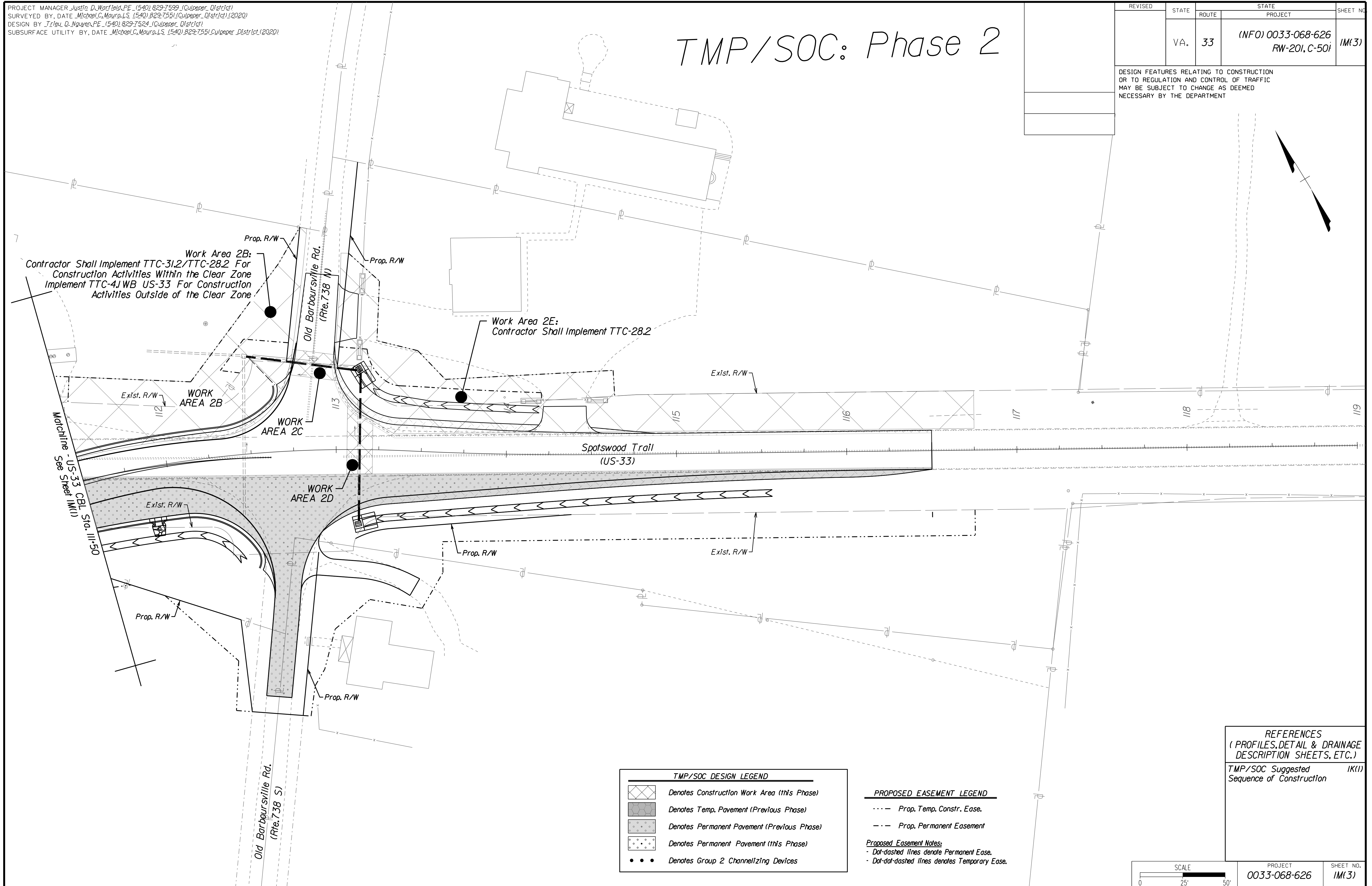
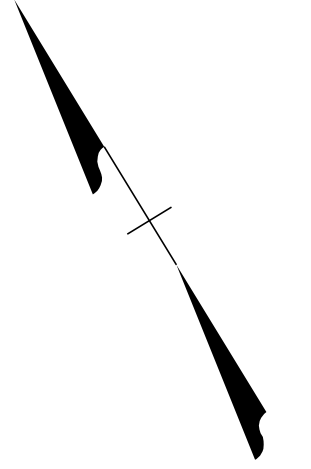
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trieu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 2

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	1M(3)

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



Work Area 2B:
Contractor Shall Implement TTC-31.2/TTC-28.2 For Construction Activities Within the Clear Zone
Implement TTC-4JWB US-33 For Construction Activities Outside of the Clear Zone

Work Area 2E:
Contractor Shall Implement TTC-28.2

TMP/SOC DESIGN LEGEND

- Denotes Construction Work Area (this Phase)
- Denotes Temp. Pavement (Previous Phase)
- Denotes Permanent Pavement (Previous Phase)
- Denotes Permanent Pavement (this Phase)
- Denotes Group 2 Channelizing Devices

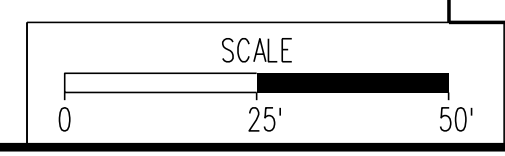
PROPOSED EASEMENT LEGEND

- Prop. Temp. Constr. Ease.
- Prop. Permanent Easement

Proposed Easement Notes:

- Denote Permanent Ease.
- Denotes Temporary Ease.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1M(3)

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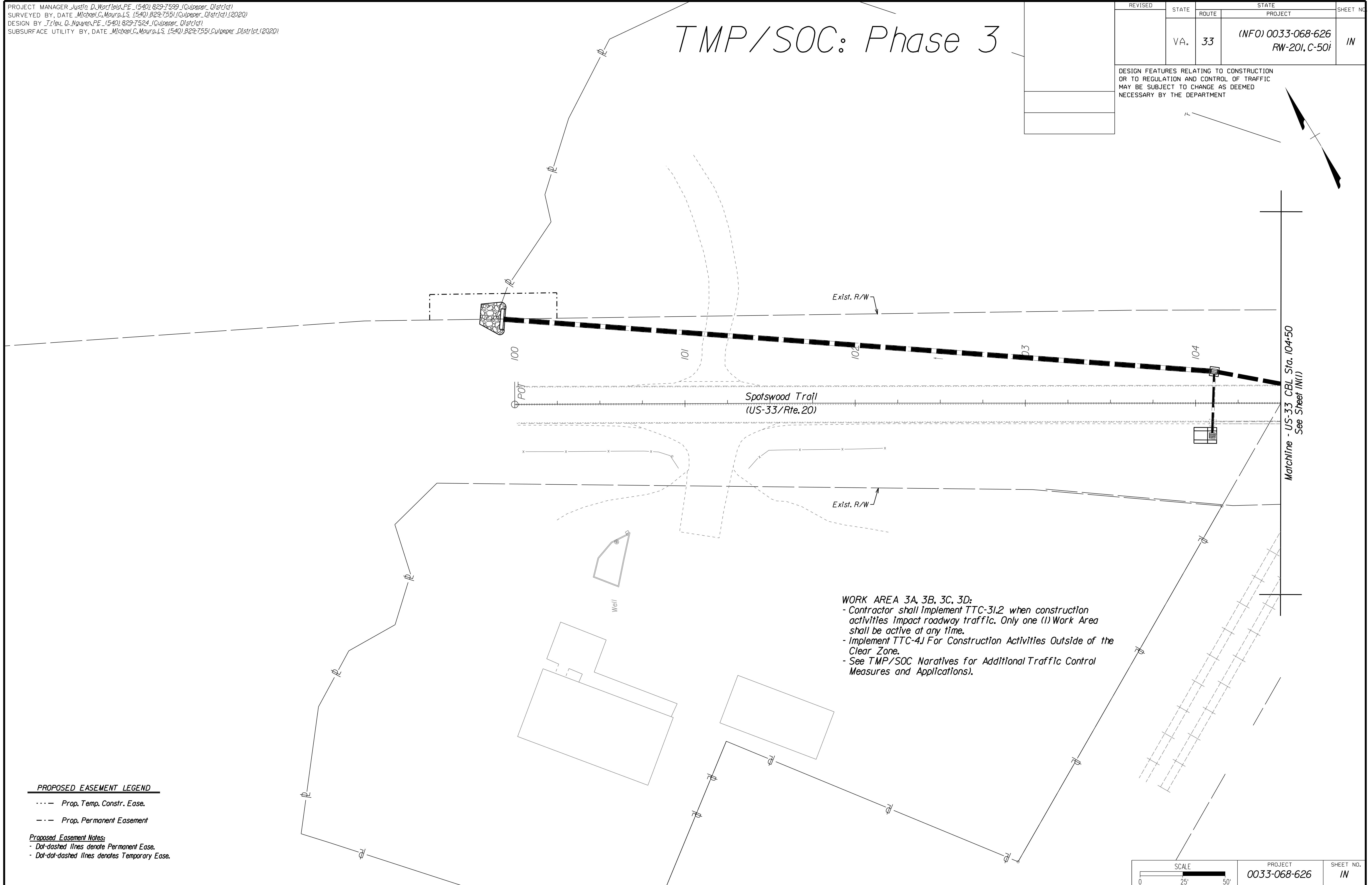
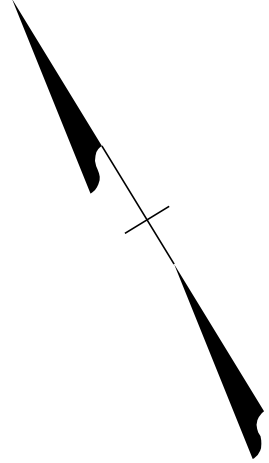
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 3

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	IN

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



WORK AREA 3A, 3B, 3C, 3D:
 - Contractor shall implement TTC-3I.2 when construction activities impact roadway traffic. Only one (1) Work Area shall be active at any time.
 - Implement TTC-4J For Construction Activities Outside of the Clear Zone.
 - See TMP/SOC Narratives for Additional Traffic Control Measures and Applications.

PROPOSED EASEMENT LEGEND

- - - Prop. Temp. Constr. Ease.
- - - Prop. Permanent Easement

Proposed Easement Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.

SCALE 0 25' 50'	PROJECT 0033-068-626	SHEET NO. IN
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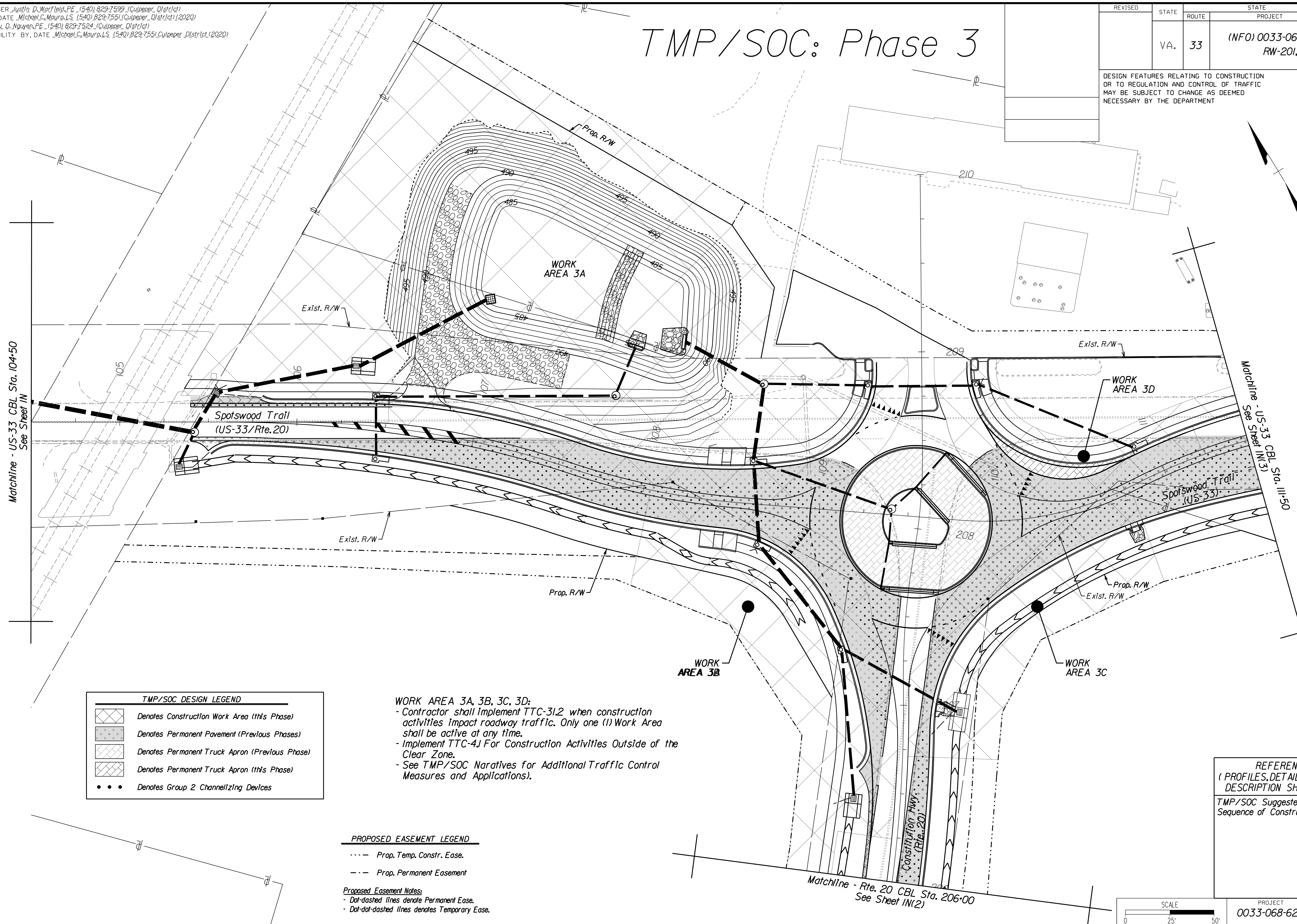
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trieu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 3

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-20I, C-50I	1N(1)

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



TMP/SOC DESIGN LEGEND

	Denotes Construction Work Area (this Phase)
	Denotes Permanent Pavement (Previous Phases)
	Denotes Permanent Truck Apron (Previous Phase)
	Denotes Permanent Truck Apron (this Phase)
	Denotes Group 2 Channelizing Devices

WORK AREA 3A, 3B, 3C, 3D:
 - Contractor shall implement TTC-31.2 when construction activities impact roadway traffic. Only one (1) Work Area shall be active at any time.
 - Implement TTC-4J For Construction Activities Outside of the Clear Zone.
 - See TMP/SOC Narratives for Additional Traffic Control Measures and Applications.

PROPOSED EASEMENT LEGEND

	Prop. Temp. Constr. Ease.
	Prop. Permanent Easement

Proposed Easement Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1N(1)

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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 3

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	IN(2)

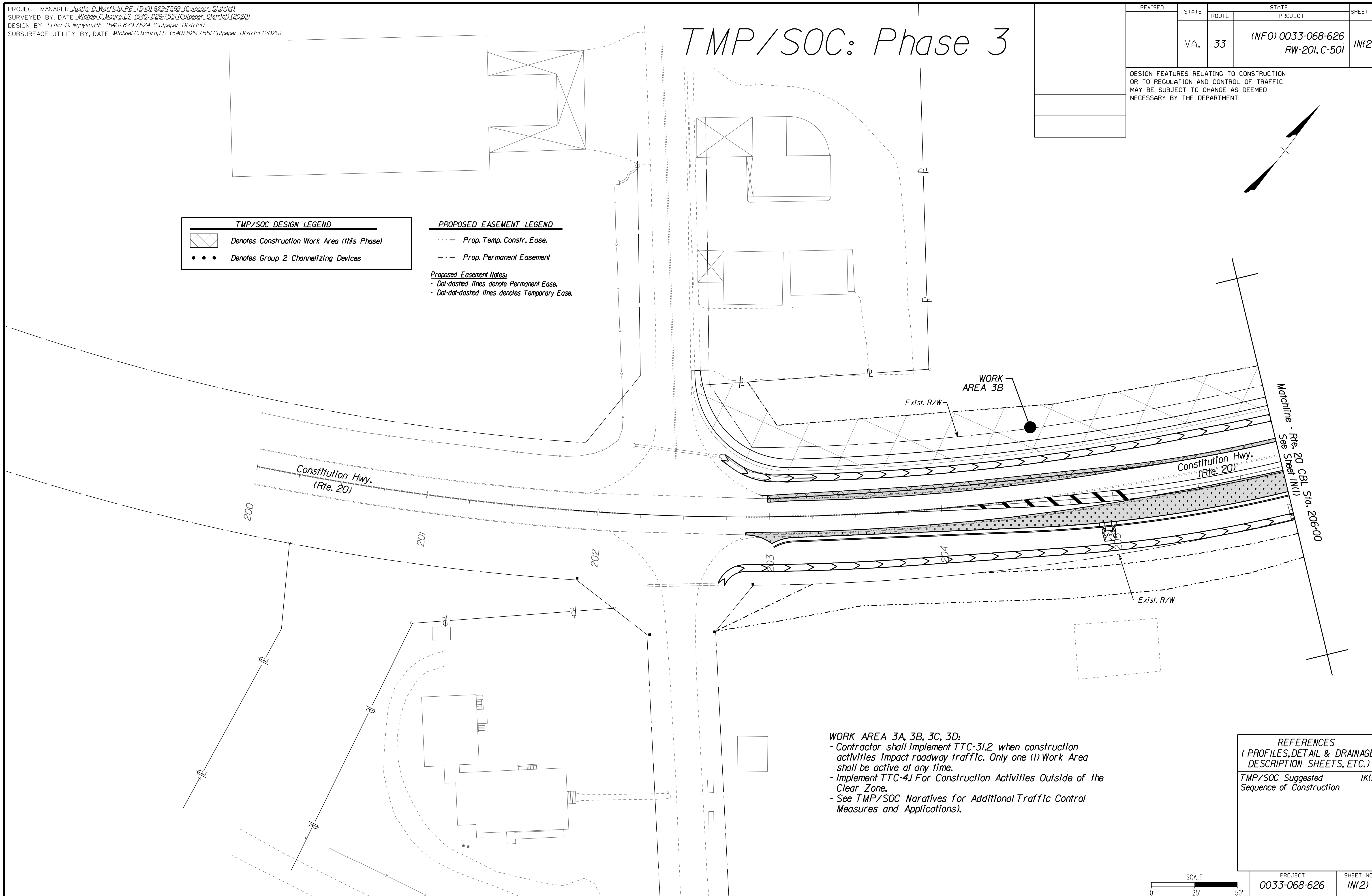
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TMP/SOC DESIGN LEGEND	
	Denotes Construction Work Area (this Phase)
	Denotes Group 2 Channelizing Devices

PROPOSED EASEMENT LEGEND

- Prop. Temp. Constr. Ease.
- - - Prop. Permanent Easement

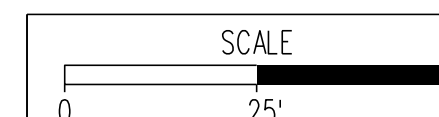
Proposed Easement Notes:
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WORK AREA 3A, 3B, 3C, 3D:
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 - Implement TTC-4J For Construction Activities Outside of the Clear Zone.
 - See TMP/SOC Narratives for Additional Traffic Control Measures and Applications.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

TMP/SOC Suggested Sequence of Construction IK(1)



PROJECT	SHEET NO.
0033-068-626	IN(2)

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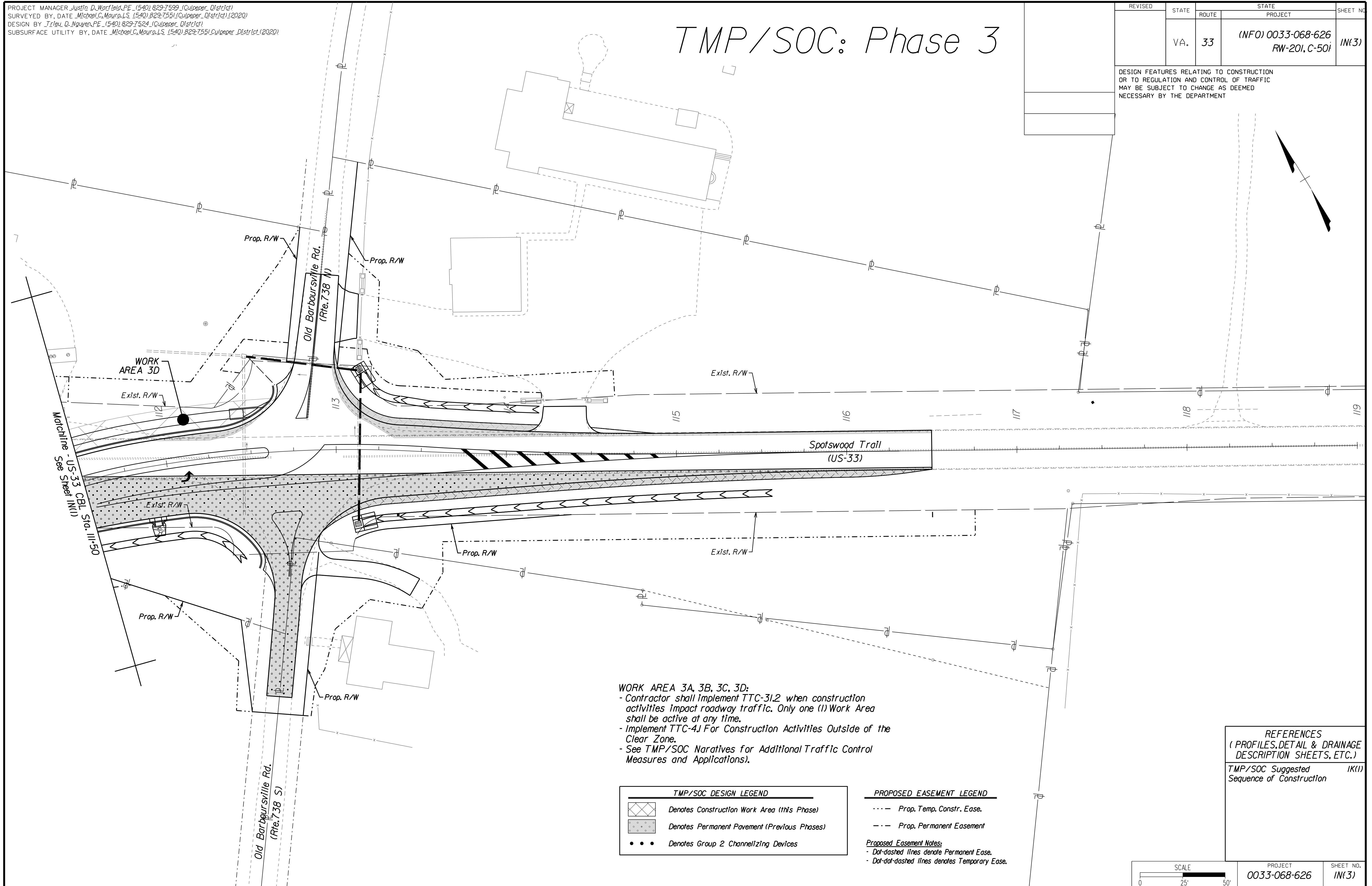
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 3

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	1N(3)

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



WORK AREA 3D

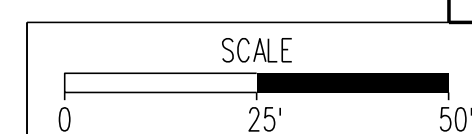
WORK AREA 3A, 3B, 3C, 3D:
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 - Implement TTC-4J For Construction Activities Outside of the Clear Zone.
 - See TMP/SOC Narratives for Additional Traffic Control Measures and Applications).

TMP/SOC DESIGN LEGEND	
	Denotes Construction Work Area (this Phase)
	Denotes Permanent Pavement (Previous Phases)
	Denotes Group 2 Channelizing Devices

PROPOSED EASEMENT LEGEND	
	Prop. Temp. Constr. Ease.
	Prop. Permanent Easement

Proposed Easement Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1N(3)

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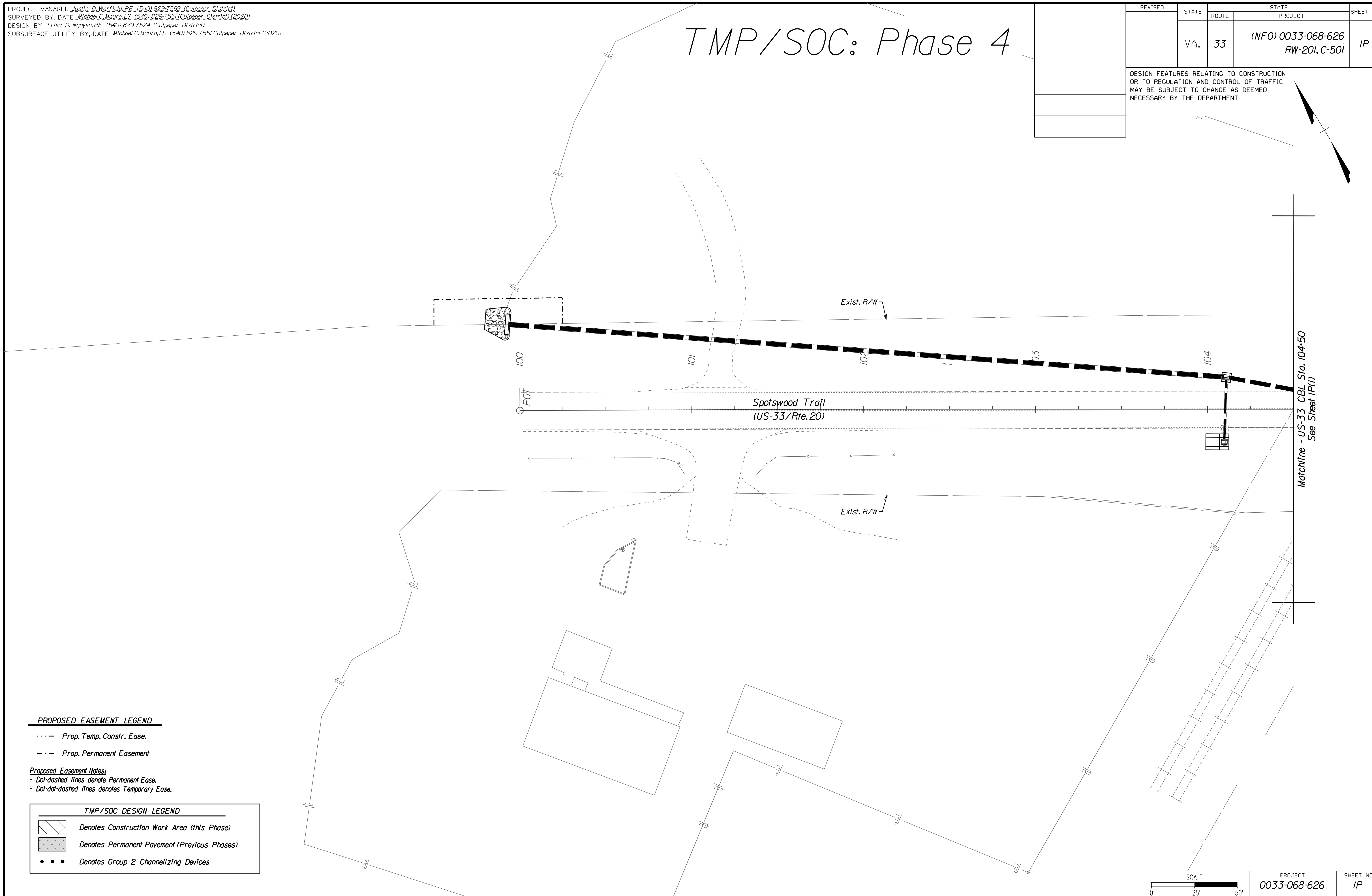
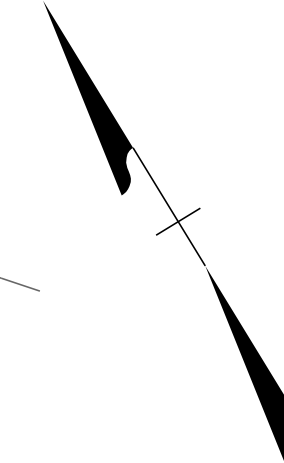
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 4

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO)	0033-068-626 RW-201, C-50i	IP

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



PROPOSED EASEMENT LEGEND

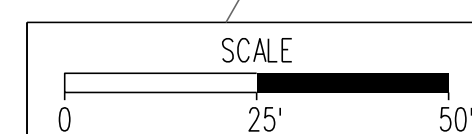
- - - Prop. Temp. Constr. Ease.
- - - Prop. Permanent Easement

Proposed Easement Notes:

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- Dot-dot-dashed lines denotes Temporary Ease.

TMP/SOC DESIGN LEGEND

- Denotes Construction Work Area (this Phase)
- Denotes Permanent Pavement (Previous Phases)
- • • Denotes Group 2 Channelizing Devices



PROJECT	SHEET NO.
0033-068-626	IP

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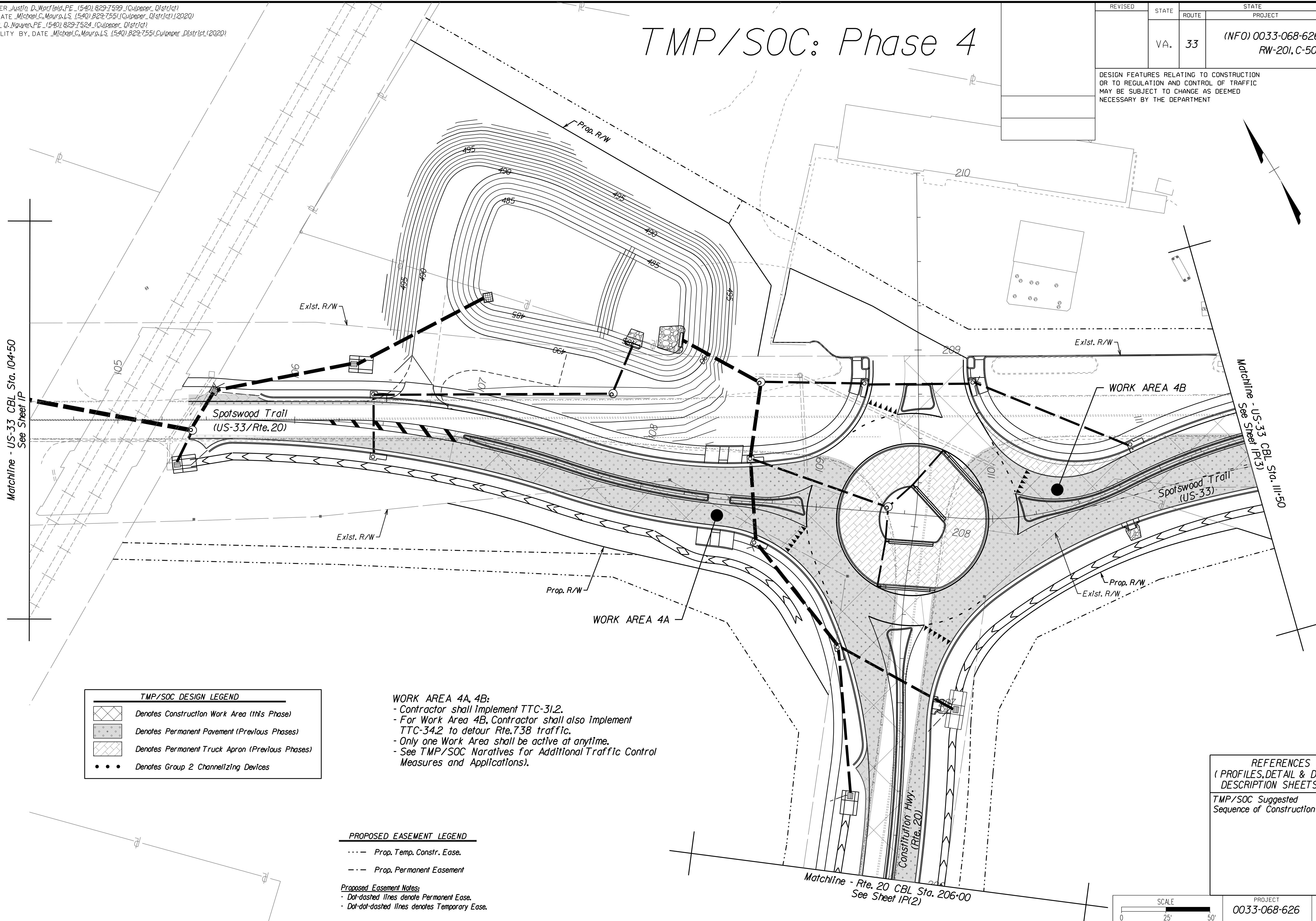
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 4

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-20I, C-50I	IP(1)

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



TMP/SOC DESIGN LEGEND

	Denotes Construction Work Area (this Phase)
	Denotes Permanent Pavement (Previous Phases)
	Denotes Permanent Truck Apron (Previous Phases)
	Denotes Group 2 Channelling Devices

WORK AREA 4A, 4B:
 - Contractor shall implement TTC-31.2.
 - For Work Area 4B, Contractor shall also implement TTC-34.2 to detour Rte. 738 traffic.
 - Only one Work Area shall be active at anytime.
 - See TMP/SOC Narratives for Additional Traffic Control Measures and Applications.

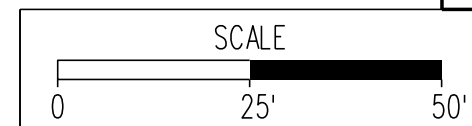
PROPOSED EASEMENT LEGEND

- - - Prop. Temp. Constr. Ease.
- - - Prop. Permanent Easement

Proposed Easement Notes:
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REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

TMP/SOC Suggested Sequence of Construction IP(1)



PROJECT	SHEET NO.
0033-068-626	IP(1)

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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 4

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-20I, C-50I	1P(2)

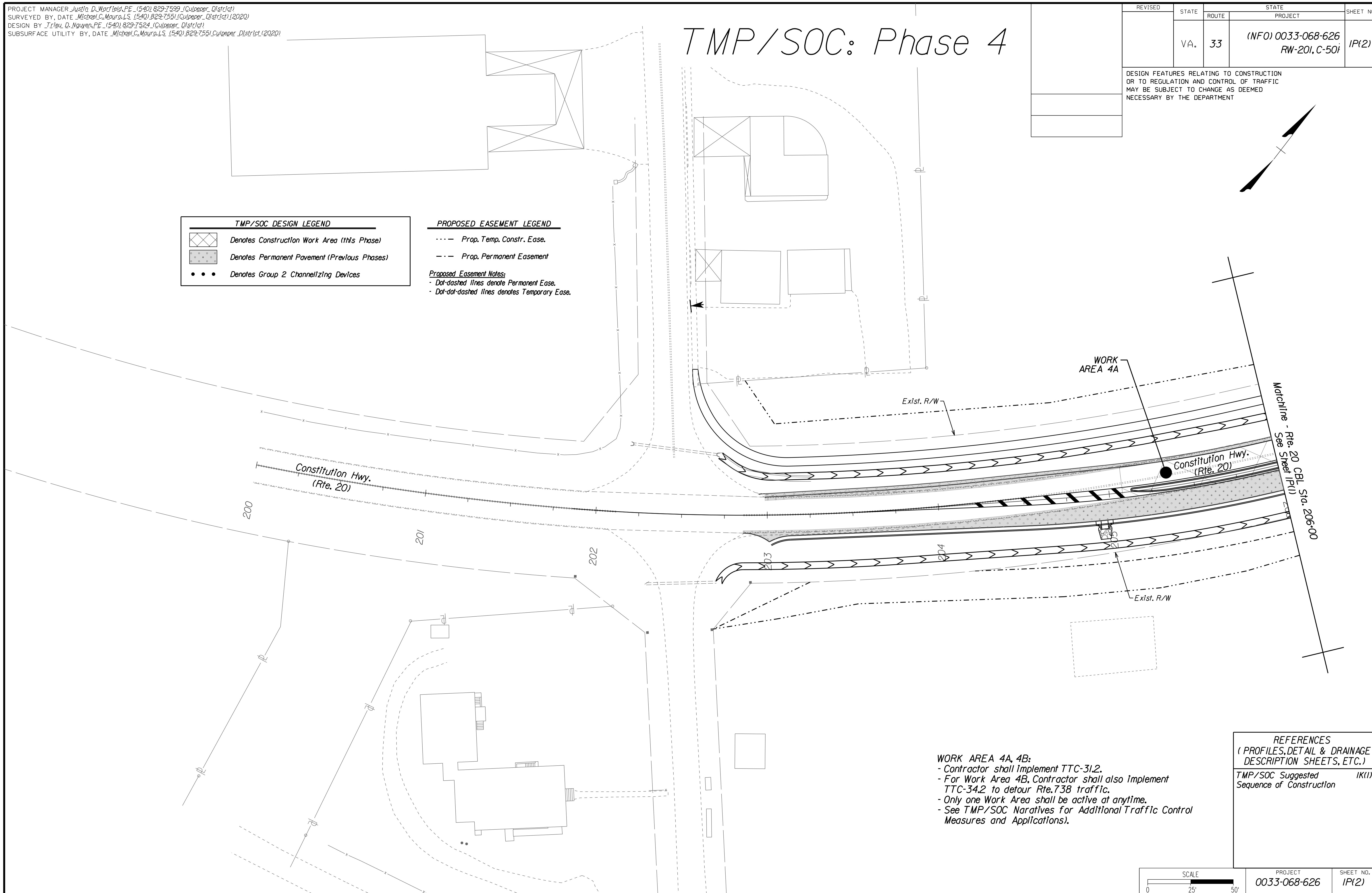
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TMP/SOC DESIGN LEGEND	
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	Denotes Group 2 Channelizing Devices

PROPOSED EASEMENT LEGEND

- Prop. Temp. Constr. Ease.
- - - Prop. Permanent Easement

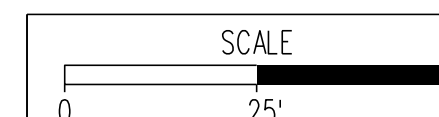
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 - Only one Work Area shall be active at anytime.
 - See TMP/SOC Narratives for Additional Traffic Control Measures and Applications).

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1P(2)

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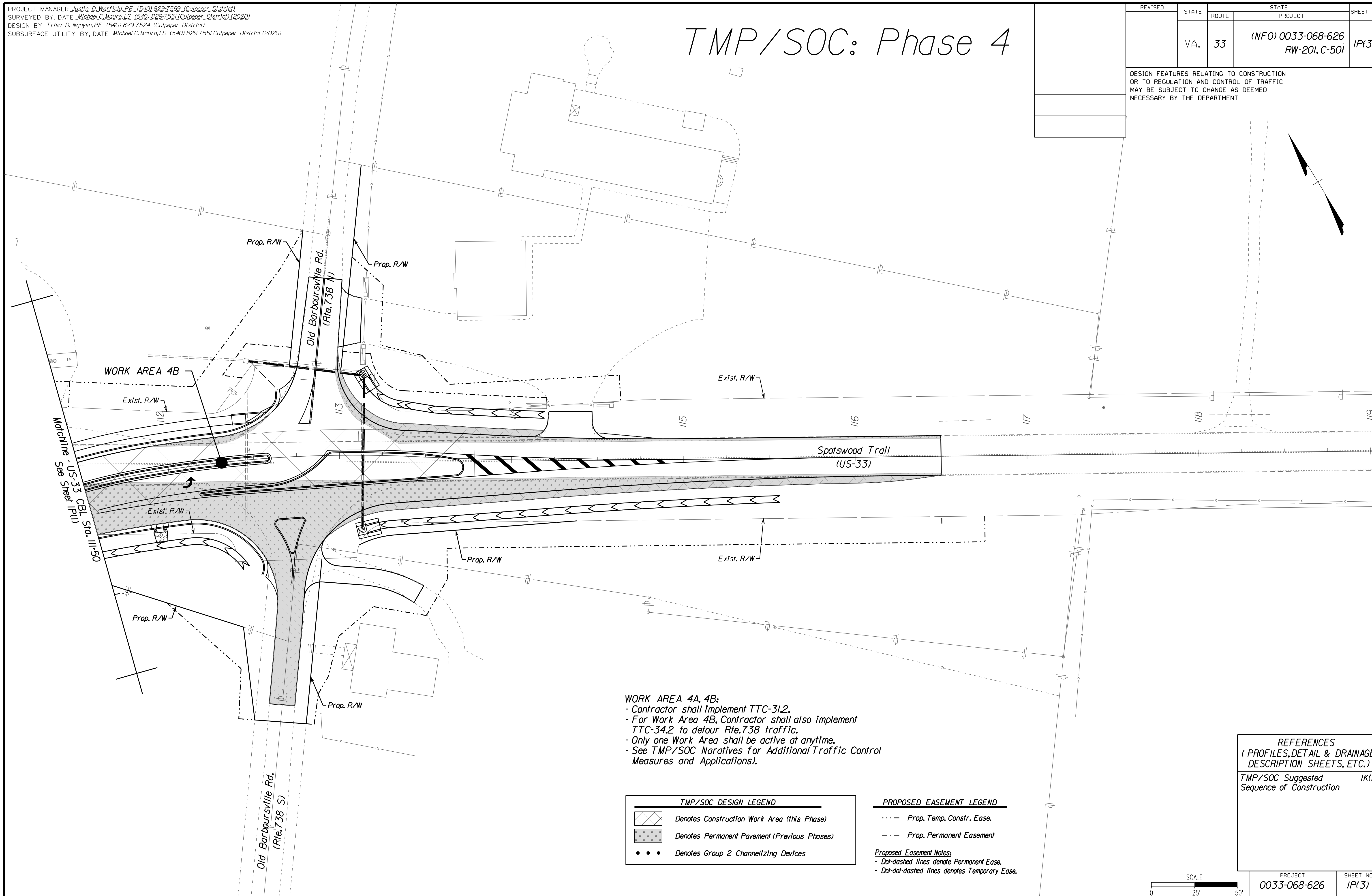
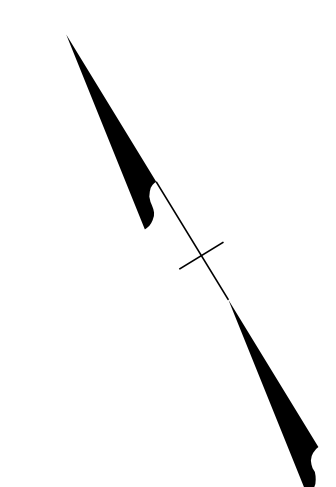
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TMP/SOC: Phase 4

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	1P(3)

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



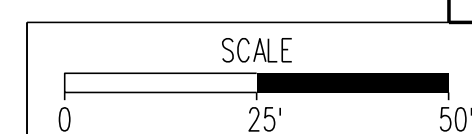
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TMP/SOC DESIGN LEGEND	
	Denotes Construction Work Area (this Phase)
	Denotes Permanent Pavement (Previous Phases)
	Denotes Group 2 Channelizing Devices

PROPOSED EASEMENT LEGEND	
	Prop. Temp. Constr. Ease.
	Prop. Permanent Easement

Proposed Easement Notes:
 - Dot-dashed lines denote Permanent Ease.
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REFERENCES
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 TMP/SOC Suggested Sequence of Construction 1K(1)



PROJECT	SHEET NO.
0033-068-626	1P(3)

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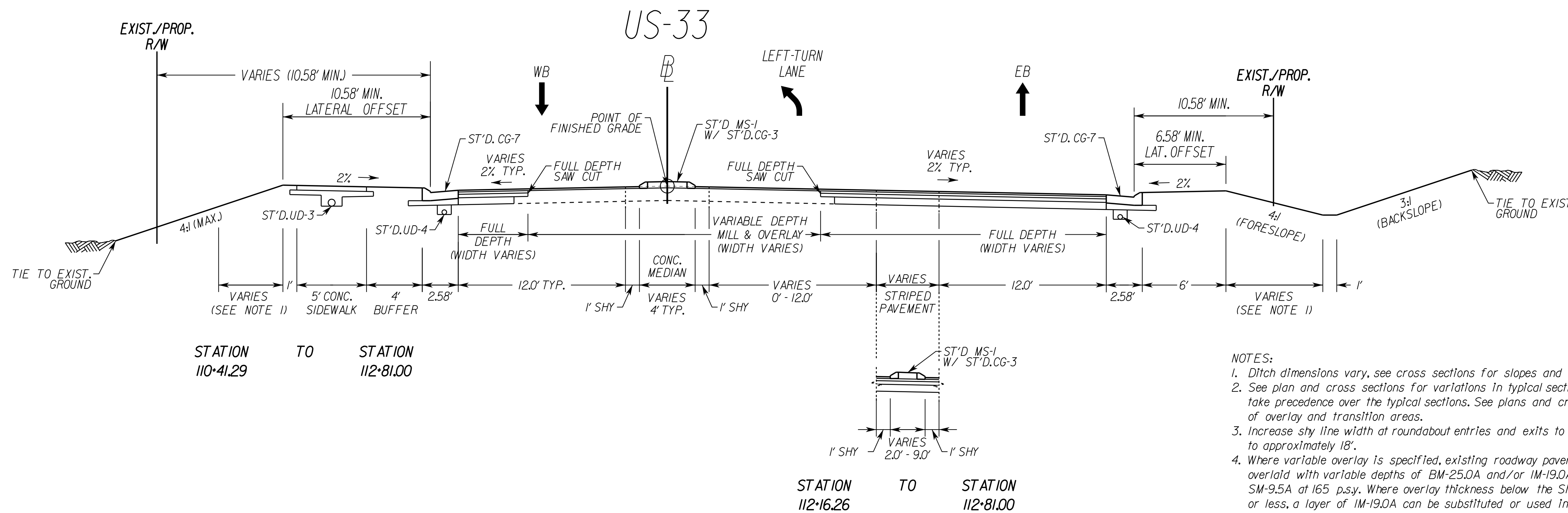
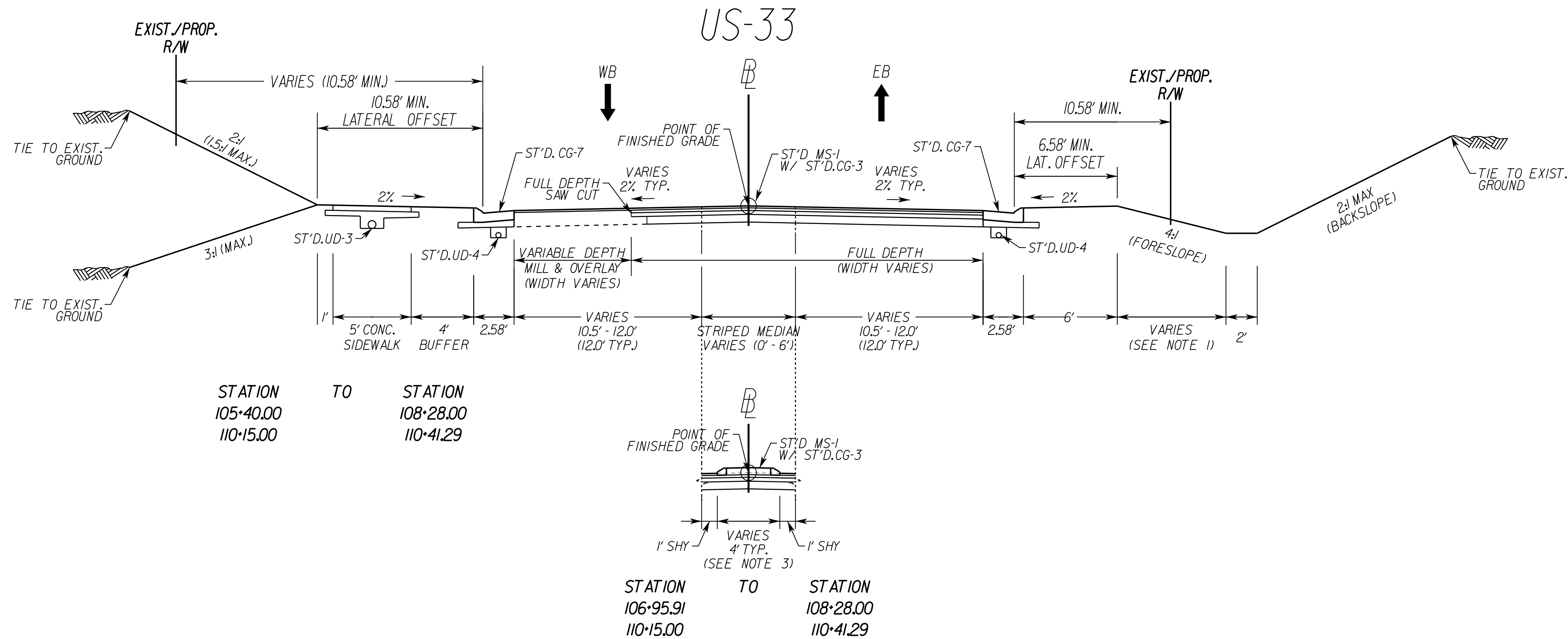
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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	2A
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
VDOT Materials Culpeper, Virginia MATERIALS ENGINEER				



- NOTES:
- Ditch dimensions vary, see cross sections for slopes and elevations.
 - See plan and cross sections for variations in typical section. The cross sections shall take precedence over the typical sections. See plans and cross sections for construction of overlay and transition areas.
 - Increase shy line width at roundabout entries and exits to limit marked travelway width to approximately 18'.
 - Where variable overlay is specified, existing roadway pavement is to be milled 1.5' and overlaid with variable depths of BM-25.0A and/or IM-19.0A and then surfaced with 1.5' SM-9.5A at 165 p.s.y. Where overlay thickness below the SM-9.5A surface is 3.0 inches or less, a layer of IM-19.0A can be substituted or used in lieu of BM-25.0A. Provide milling, as needed, to place asphalt concrete mixes at minimum and maximum layer thicknesses per Chapter 6 of VDOT Manual of Instructions (MOI-Materials). In areas where it will be subjected to mainline traffic for more than 30 days prior to placement of the SM-9.5A surface, the topmost lift of the overlay shall be IM-19.0A.
 - Other areas specified as Mill & Overlay are to be milled a minimum depth of 1.5' and overlaid with a minimum of 1.5' of SM-9.5A to return to existing grade. See the plans for full limits of paving.
 - See plans for underdrain locations.

PH PLANS

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CULPEPER DISTRICT DESIGN UNIT

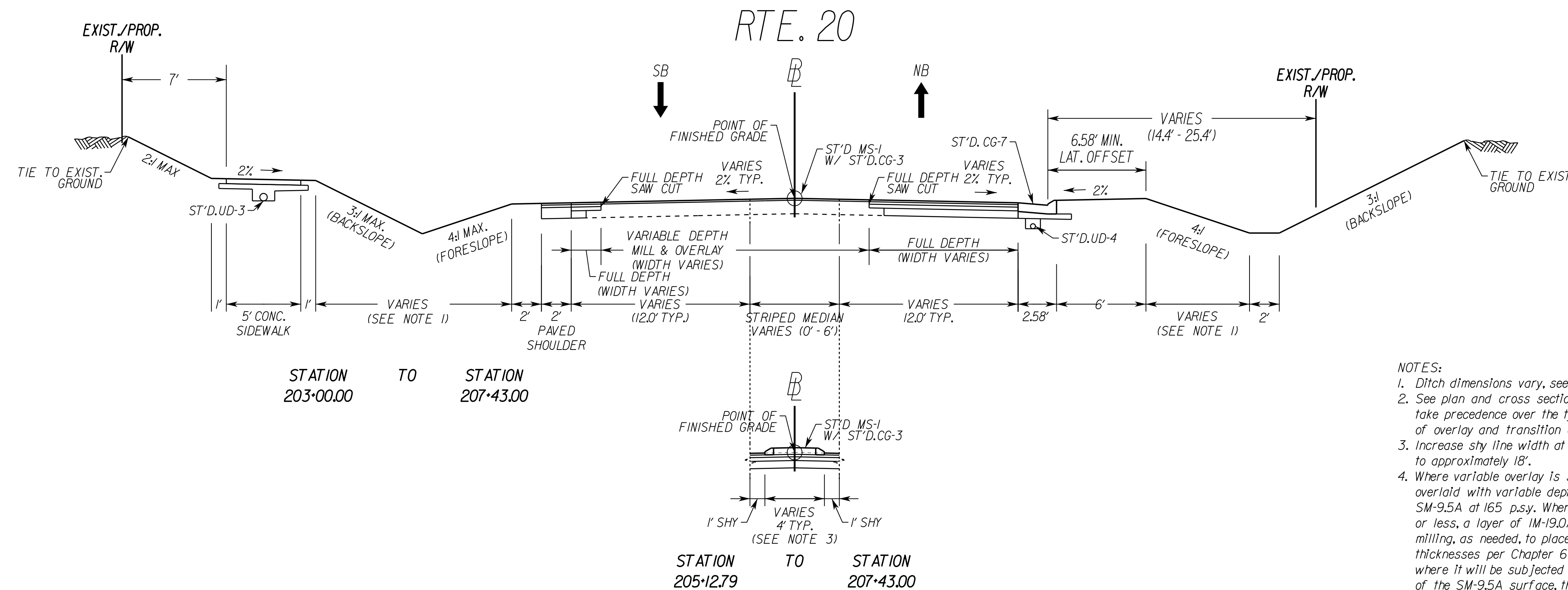
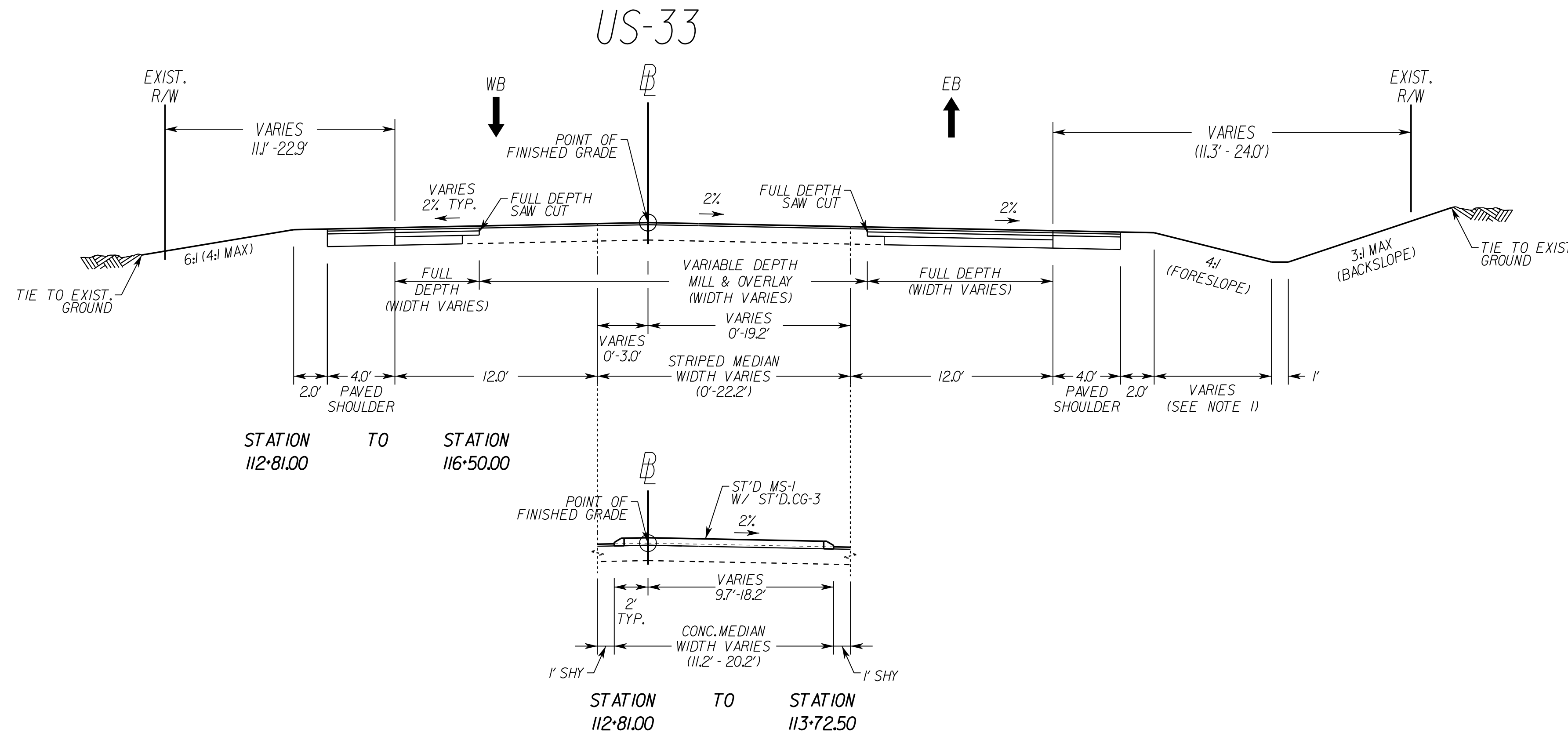
PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	2A(1)

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

VDOT Materials
Culpeper, Virginia
MATERIALS ENGINEER



- NOTES:
- Ditch dimensions vary, see cross sections for slopes and elevations.
 - See plan and cross sections for variations in typical section. The cross sections shall take precedence over the typical sections. See plans and cross sections for construction of overlay and transition areas.
 - Increase shy line width at roundabout entries and exits to limit marked travelway width to approximately 18'.
 - Where variable overlay is specified, existing roadway pavement is to be milled 1.5" and overlaid with variable depths of BM-25.0A and/or IM-19.0A and then surfaced with 1.5" SM-9.5A at 165 p.s.y. Where overlay thickness below the SM-9.5A surface is 3.0 inches or less, a layer of IM-19.0A can be substituted or used in lieu of BM-25.0A. Provide milling, as needed, to place asphalt concrete mixes at minimum and maximum layer thicknesses per Chapter 6 of VDOT Manual of Instructions (MOI-Materials). In areas where it will be subjected to mainline traffic for more than 30 days prior to placement of the SM-9.5A surface, the topmost lift of the overlay shall be IM-19.0A.
 - Other areas specified as Mill & Overlay are to be milled a minimum depth of 1.5" and overlaid with a minimum of 1.5" of SM-9.5A to return to existing grade. See the plans for full limits of paving.
 - See plans for underdrain locations.

PROJECT	SHEET NO.
0033-068-626	2A(1)

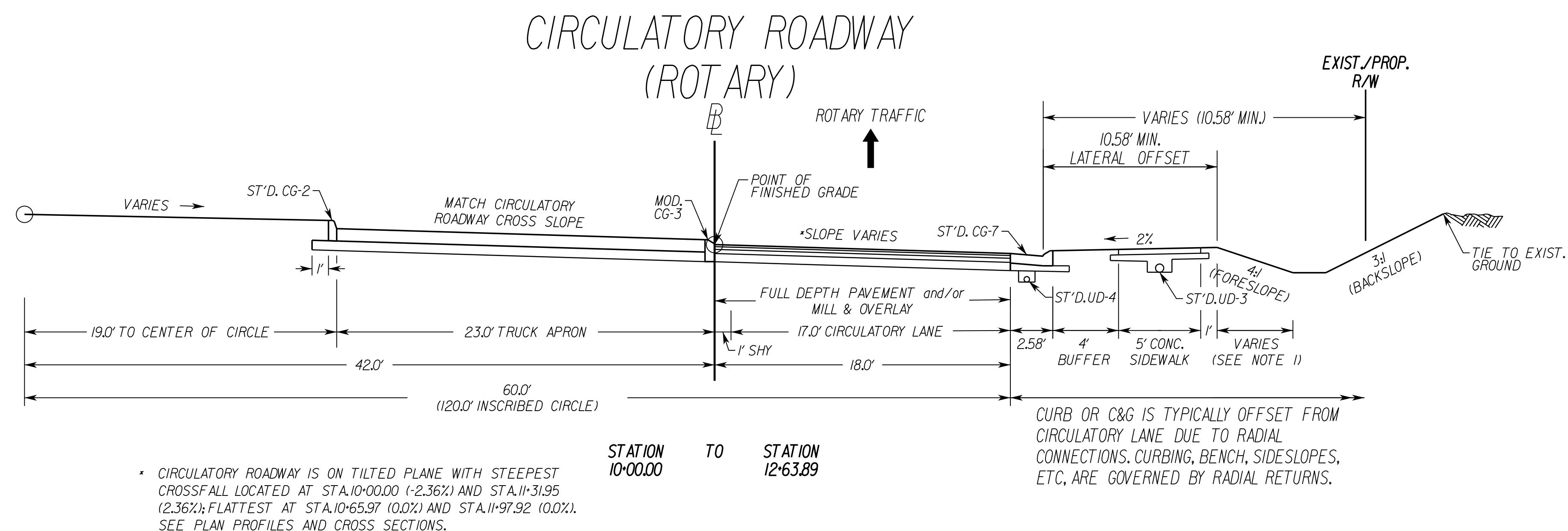
PH PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TYPICAL SECTIONS

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	2A(2)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
VDOT Materials Culpeper, Virginia MATERIALS ENGINEER				



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 - See plans for underdrain locations.

PH PLANS

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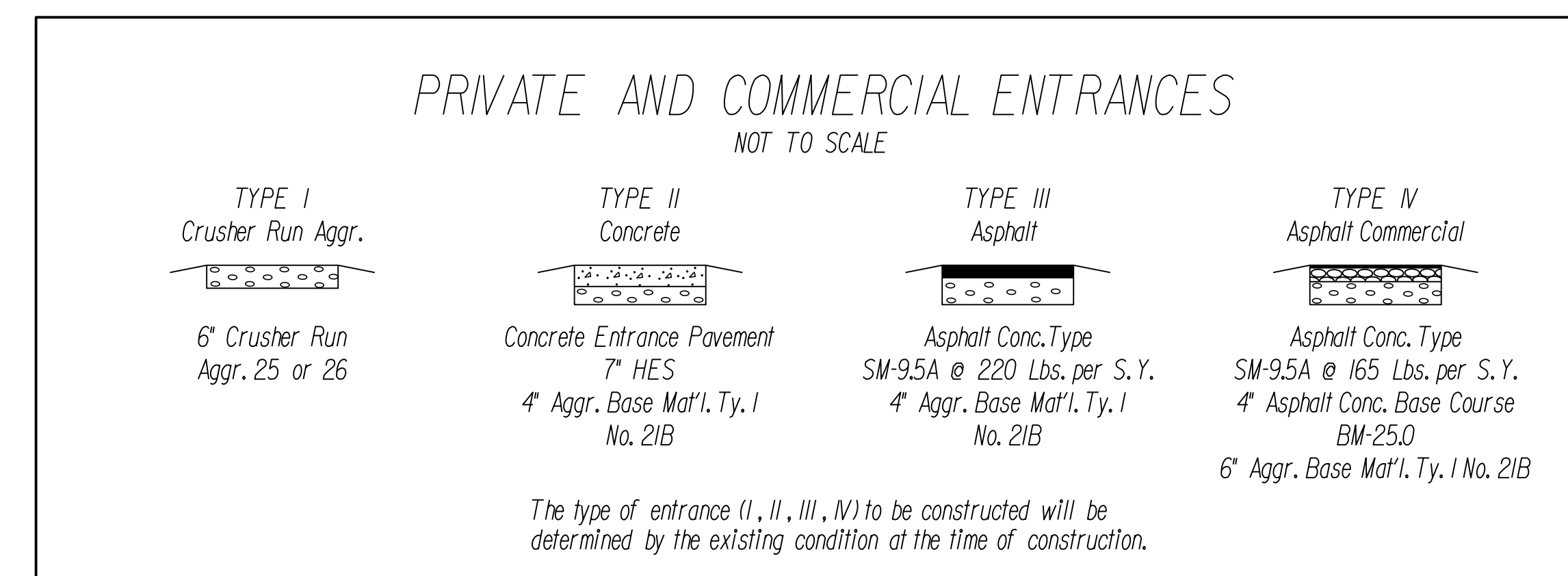
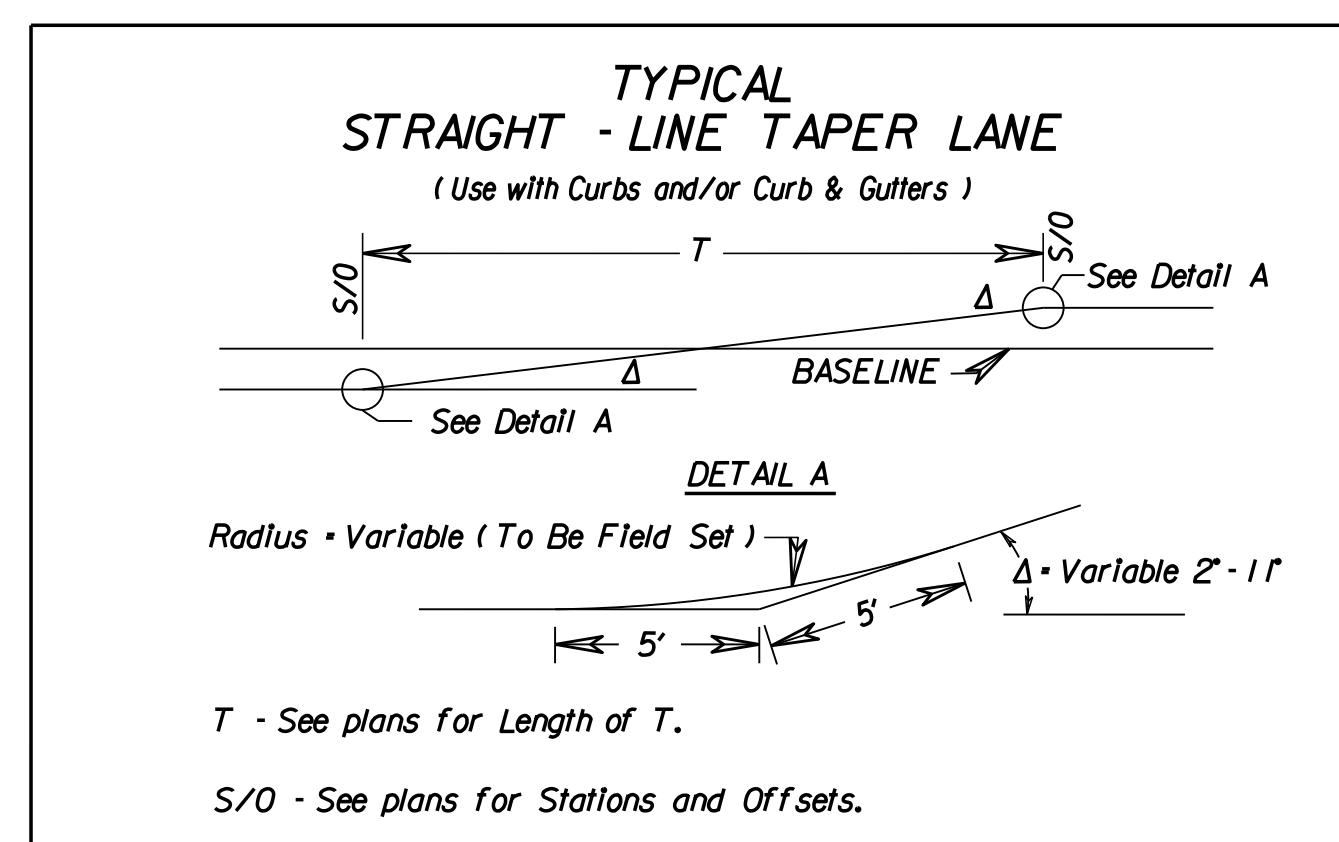
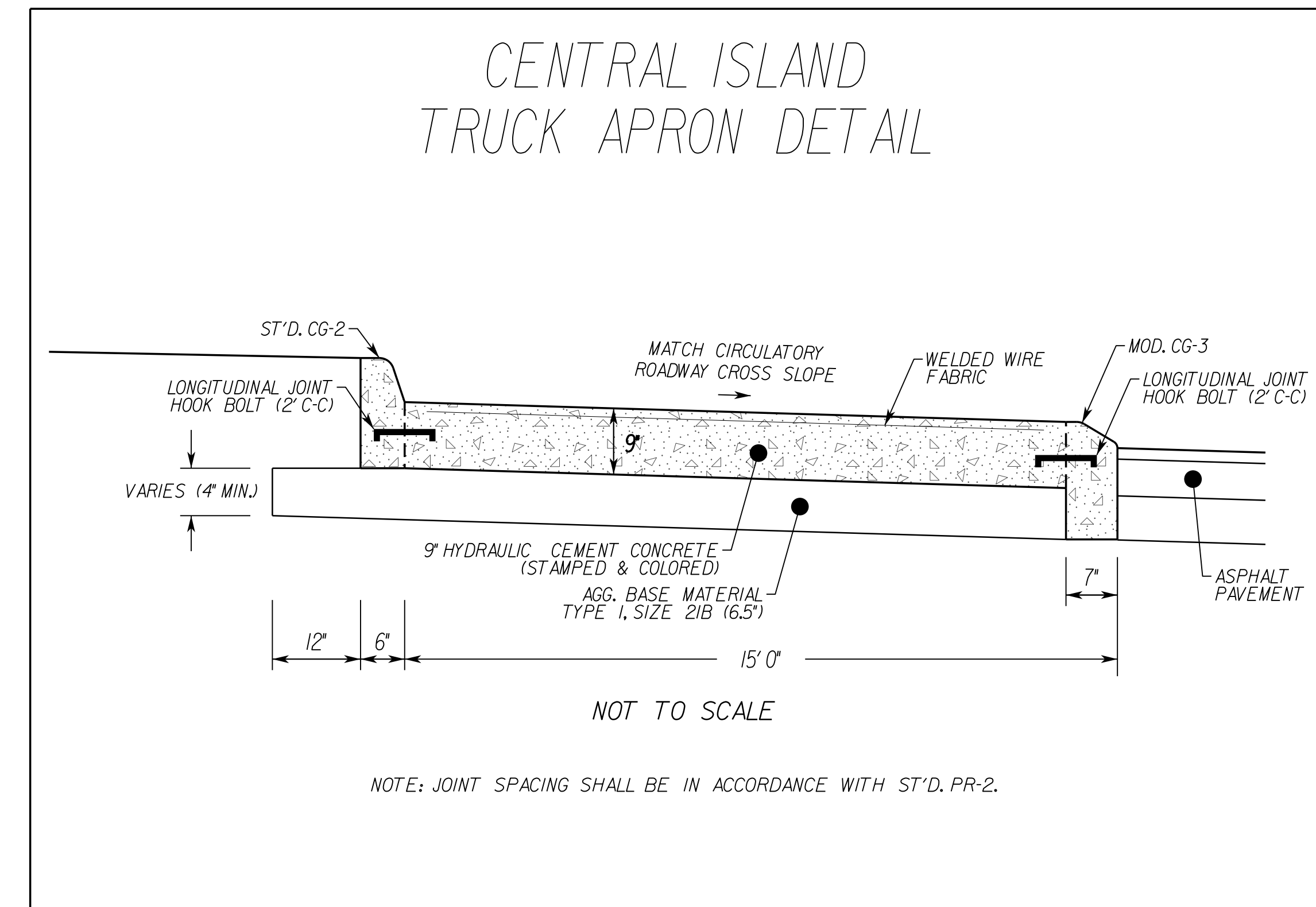
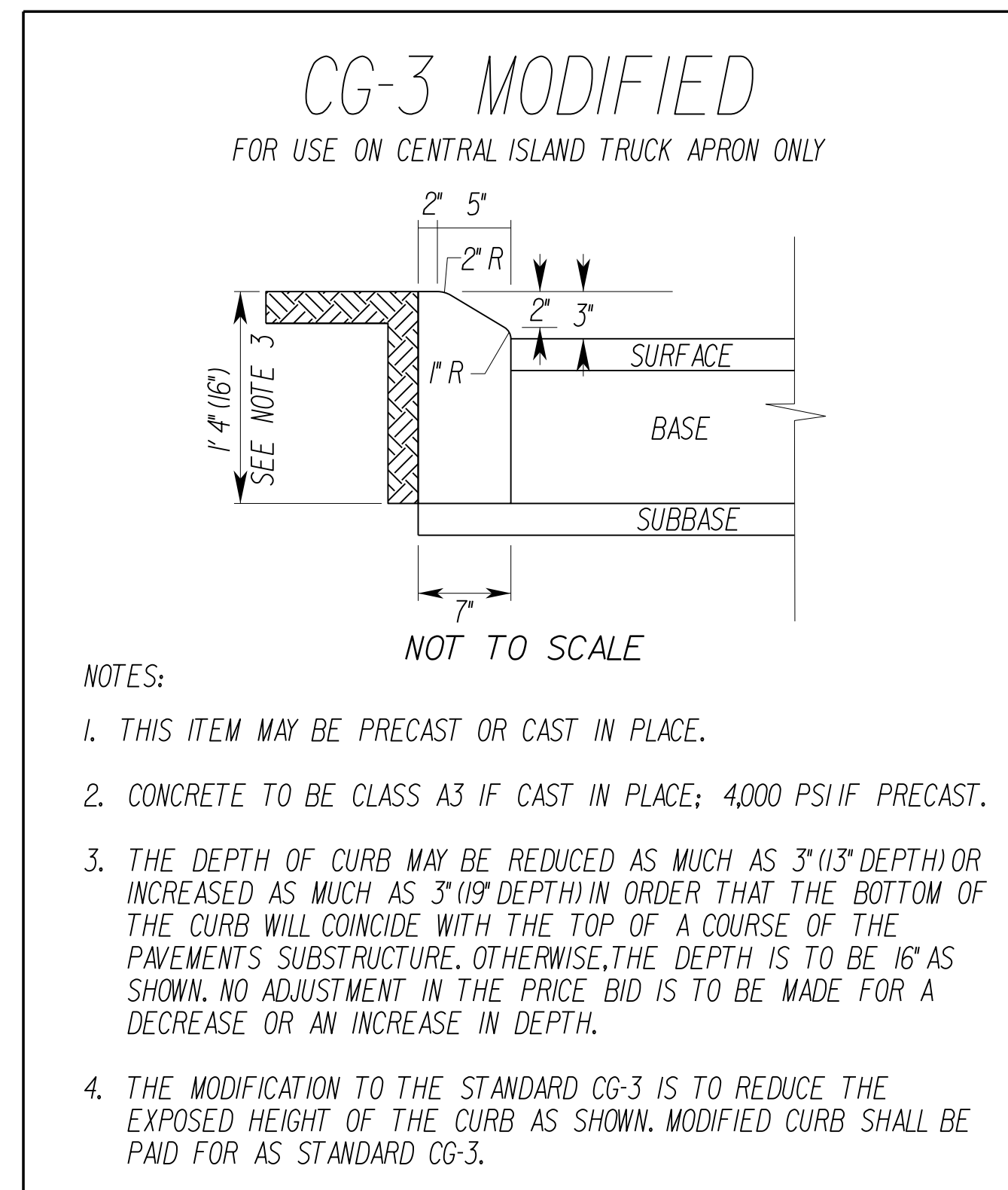
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

TYPICAL SECTIONS

REVISED	STATE	STATE	SHEET NO.
	ROUTE	PROJECT	
	VA.	(INFO) 0033-068-626 RW-201, C-50i	2A(3)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT			
VDOT Materials Culpeper, Virginia MATERIALS ENGINEER			



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CULPEPER DISTRICT DESIGN UNIT












PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

EXISTING DRAINAGE DESCRIPTIONS

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	2E

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

EXISTING DRAINAGE DESCRIPTION

 1	Inv. Out-473.09	 12	Outlet pipe approximate direction, Outfall could not be determined.
 2	In Pl. Conc. DI Inv. In-479.24' INV. OUT- 479.35	 13	In Pl. Metal Grate Inv. Out- 501.94' In. Pl. 15' CMP
 3	In Pl. Conc. DI Under Pymt. See Project# 0033-068-000J35e sheet 8	 14	Conc. Headwall Inv. In- 504.35'
 4	INV. IN- 479.46 In Pl. Metal Grate	 15	Conc. Headwall Inv. In-503.33'
 5	In Pl. Conc. DI Under Pymt. See Project# 0033-068-000J35e sheet 8	 16	Conc. Headwall Inv. Out-504.84'
 6	Inv. In-481.47' In Pl. Conc. DI	 17	Conc. Headwall Inv. In-505.49'
 7	In Pl. Conc. DI Covered with stone Invert could not be read.	 18	INV. IN- 507.49
 8	INV. OUT- 493.61	 19	INV. OUT- 507.31
 9	In. Pl. Metal Grate (ground) INV. OUT- 494.19 (SW) INV. IN- 494.21 (SE) RIM-497.46	 20	INV. OUT- 508.66
 10	Conc. Headwall INV. IN- 495.10	 21	INV. IN- 509.03
 11	Conc. Headwall Inv. In-498.37'		

PROJECT	SHEET NO.
0033-068-626	2E

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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trieu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

REVISED	STATE		PROJECT	SHEET NO.
	ROUTE			
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	3

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

UTILITY OWNERS

Power:
 Rappahannock Electric Coop.
 530 Madison Rd.
 Culpeper, Va. 22701
 800-572-2264

Telecomm:
 Verizon
 William C. Swann Jr.
 Verizon Virginia Inc.
 Outside Plant Engineering
 Highway Department
 2600 Brittons Hill Rd
 2nd Floor
 Richmond, VA 23230
 804.772.4409
 804.772.5978
 William.C.Swann.Jr@Verizon.com

Orange County Broadband
 Wes Thurston
 703-999-0188
 Lewis Foster
 540-920-7623

Sprint
 Call Center
 800-521-0579

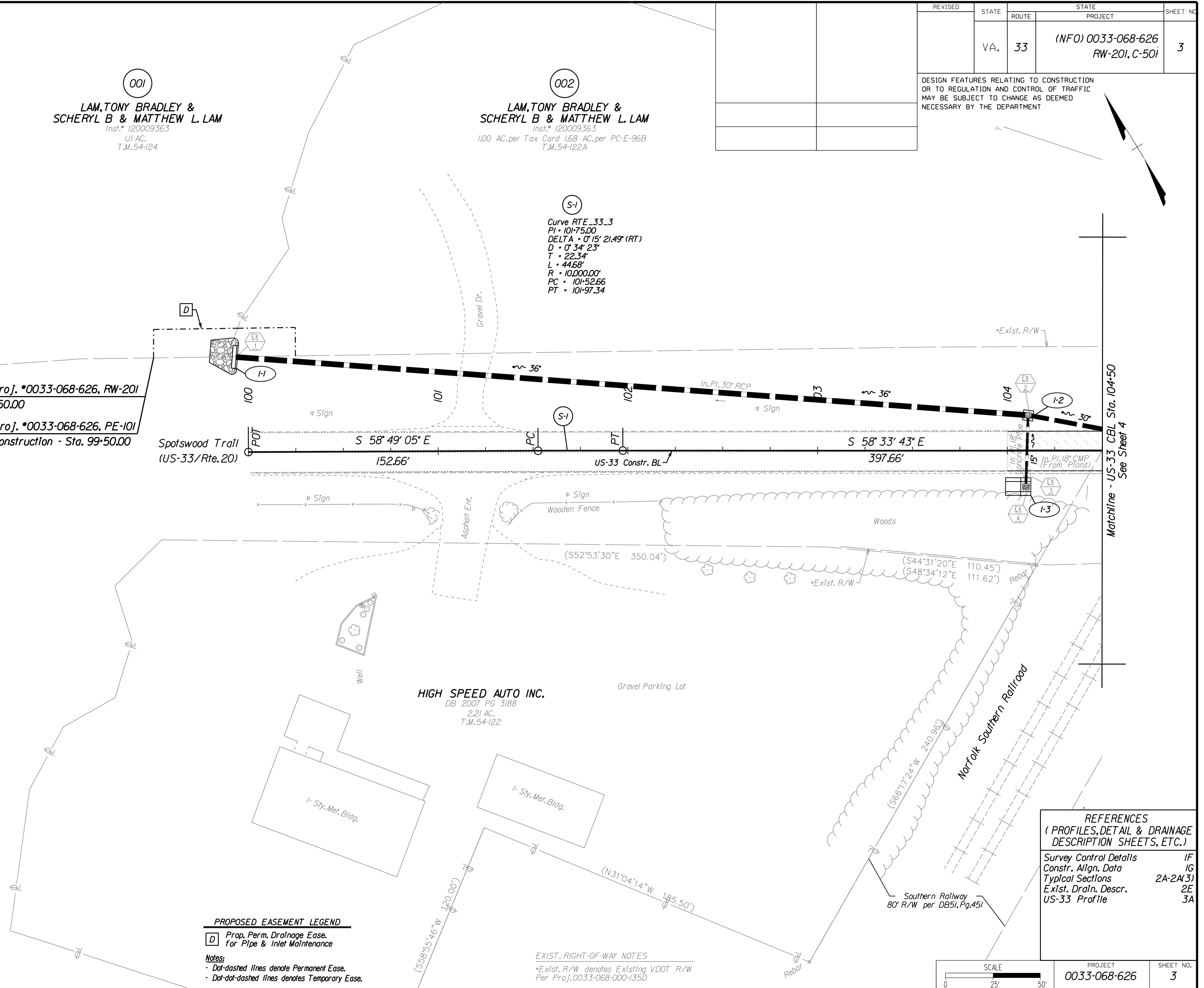
001
LAM, TONY BRADLEY & SCHERYL B & MATTHEW L. LAM
 Inst.# 120009363
 1/1 AC.
 T.M. 54-124

002
LAM, TONY BRADLEY & SCHERYL B & MATTHEW L. LAM
 Inst.# 120009363
 1.00 AC. per Tax Card 1.68 AC. per PC-E-96B
 T.M. 54-122A

S-1
 Curve RTE_33_3
 PI = 101+75.00
 DELTA = 0°15'21.49" (RT)
 D = 0°34'23"
 T = 22.34'
 L = 44.68'
 R = 10,000.00'
 PC = 101+52.66
 PT = 101+97.34

Begin Proj. *0033-068-626, RW-201
 Sta. 99+50.00

Begin Proj. *0033-068-626, PE-101
 Begin Construction - Sta. 99+50.00



PROPOSED EASEMENT LEGEND
 [D] Prop. Perm. Drainage Ease. for Pipe & Inlet Maintenance
Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denotes Temporary Ease.

EXIST. RIGHT-OF-WAY NOTES
 *Exist. R/W denotes Existing VDOT R/W Per Proj. 0033-068-000-135D

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

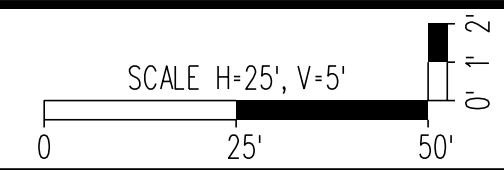
Survey Control Details	1F
Constr. Align. Data	1G
Typical Sections	2A-2A(3)
Exist. Drain. Descr.	2E
US-33 Profile	3A

SCALE	PROJECT	SHEET NO.
0 25' 50'	0033-068-626	3

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CULPEPER DISTRICT DESIGN UNIT

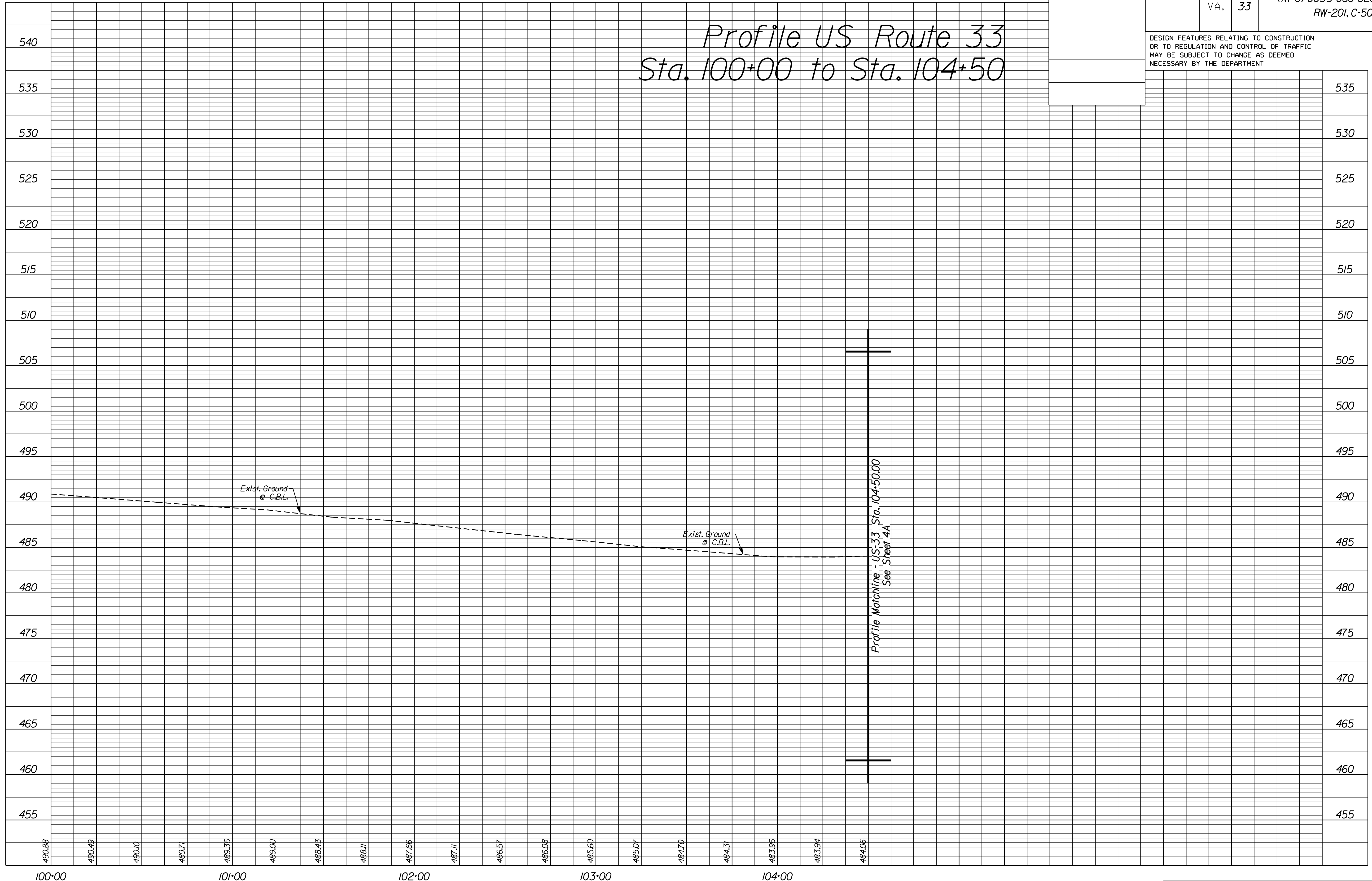
PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trieu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	3A

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

*Profile US Route 33
Sta. 100+00 to Sta. 104+50*



PROJECT	SHEET NO.
0033-068-626	3A

PH PLANS

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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-20I, C-50I	4

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

PAVEMENT DESIGN LEGEND

- Denotes Variable-Depth Mill & Overlay (See Cross Sections)
- Denotes Full Depth Pavement
- Denotes Paved Shoulder
- Denotes Truck Apron
- Denotes Demolition of Pavement

PROPOSED EASEMENT LEGEND

- A** Prop. Temp. Constr. Ease.
- B** Prop. Temp. Constr. Ease. for Entrance Construction
- C** Prop. Perm. Drainage Ease. for Ditch Maintenance
- D** Prop. Perm. Drainage Ease. for Pipe & Inlet Maintenance
- E** Prop. Perm. Ease. for Slope Maintenance
- F** Prop. 15' Perm. Utility Ease.

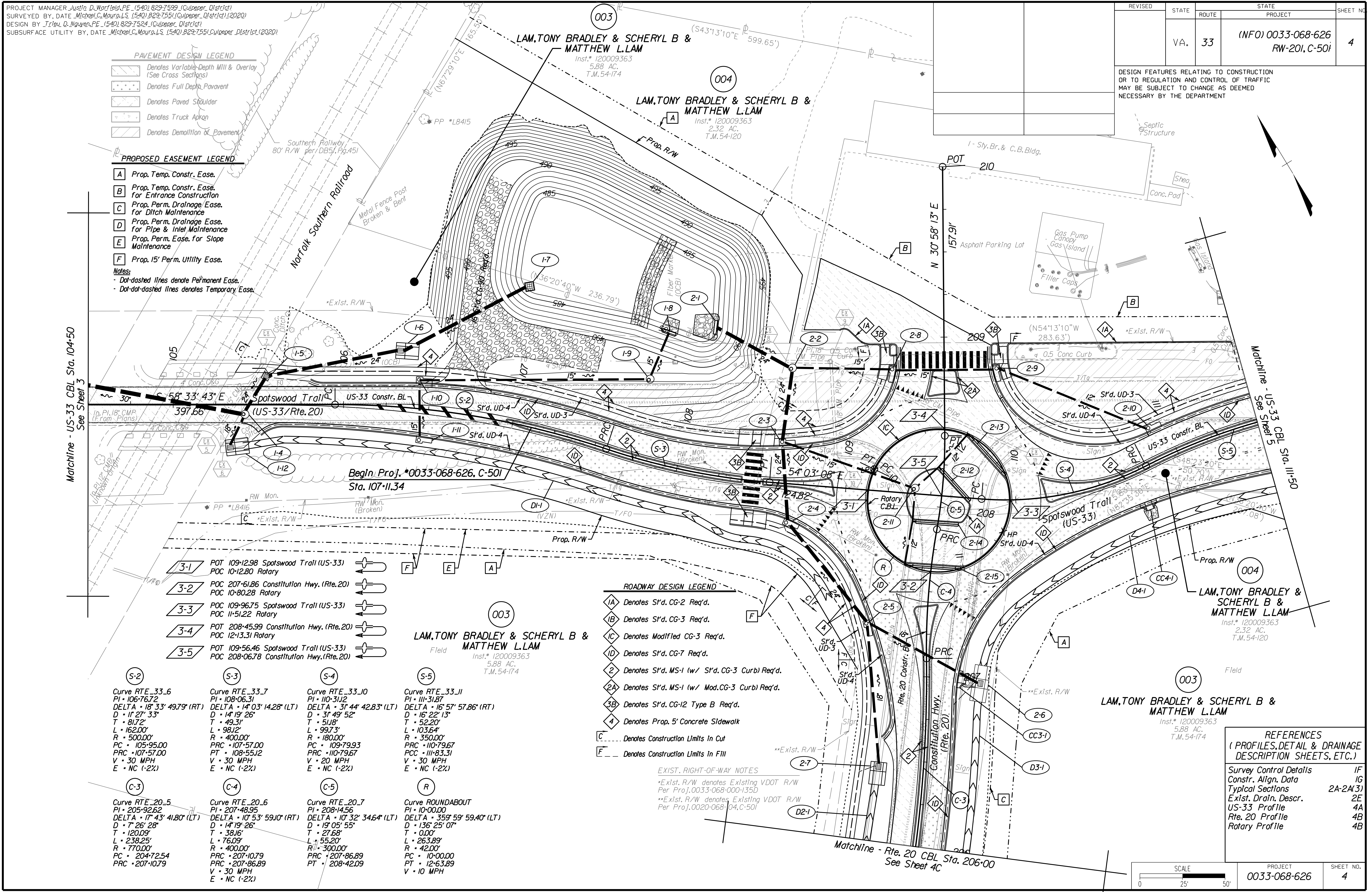
Notes:
 - Dot-dashed lines denote Permanent Easement.
 - Dot-dot-dashed lines denote Temporary Easement.

ROADWAY DESIGN LEGEND

- 1A** Denotes S'r'd. CG-2 Req'd.
- 1B** Denotes S'r'd. CG-3 Req'd.
- 1C** Denotes Modified CG-3 Req'd.
- 1D** Denotes S'r'd. CG-7 Req'd.
- 2** Denotes S'r'd. MS-1 (w/ S'r'd. CG-3 Curb) Req'd.
- 2A** Denotes S'r'd. MS-1 (w/ Mod. CG-3 Curb) Req'd.
- 3B** Denotes S'r'd. CG-12 Type B Req'd.
- 4** Denotes Prop. 5' Concrete Sidewalk
- C** Denotes Construction Limits in Cut
- F** Denotes Construction Limits in Fill

EXIST. RIGHT-OF-WAY NOTES

*Exist. R/W denotes Existing VDOT R/W Per Proj. 0033-068-000-135D
 **Exist. R/W denotes Existing VDOT R/W Per Proj. 0020-068-04, C-50I



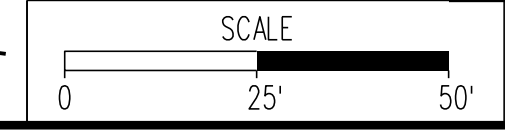
- 3-1** POT 109-12.98 Spotswood Trail (US-33)
POC 10-12.80 Rotary
- 3-2** POC 207-61.86 Constitution Hwy. (Rte. 20)
POC 10-80.28 Rotary
- 3-3** POC 109-96.75 Spotswood Trail (US-33)
POC 11-51.22 Rotary
- 3-4** POT 208-45.99 Constitution Hwy. (Rte. 20)
POC 12-13.31 Rotary
- 3-5** POT 109-56.46 Spotswood Trail (US-33)
POC 208-06.78 Constitution Hwy. (Rte. 20)

- S-2** Curve RTE_33_3.6
PI = 106-76.72
DELTA = 18° 33' 49.79" (RT)
D = 11' 27' 33"
T = 81.72'
L = 162.00'
R = 500.00'
PC = 105-95.00
PRC = 107-57.00
V = 30 MPH
E = NC (-2%)
- S-3** Curve RTE_33_7
PI = 108-06.31
DELTA = 14° 03' 14.28" (LT)
D = 14' 19' 26"
T = 49.31'
L = 98.12'
R = 400.00'
PC = 107-57.00
PT = 108-55.12
V = 30 MPH
E = NC (-2%)
- S-4** Curve RTE_33_10
PI = 110-31.12
DELTA = 31° 44' 42.83" (LT)
D = 31' 49' 52"
T = 51.18'
L = 99.73'
R = 180.00'
PC = 109-79.93
PRC = 110-79.67
V = 30 MPH
E = NC (-2%)
- S-5** Curve RTE_33_11
PI = 111-31.87
DELTA = 16° 57' 57.86" (RT)
D = 16' 22' 13"
T = 52.20'
L = 103.64'
R = 350.00'
PC = 110-79.67
PCC = 111-83.31
V = 20 MPH
E = NC (-2%)

- C-3** Curve RTE_20_5
PI = 205-92.62
DELTA = 17° 43' 41.80" (LT)
D = 7' 26' 28"
T = 120.09'
L = 238.25'
R = 770.00'
PC = 204-72.54
PRC = 207-10.79
- C-4** Curve RTE_20_6
PI = 207-48.95
DELTA = 10° 53' 59.10" (RT)
D = 14' 19' 26"
T = 38.16'
L = 76.09'
R = 400.00'
PC = 207-10.79
PRC = 207-86.89
V = 30 MPH
E = NC (-2%)
- C-5** Curve RTE_20_7
PI = 208-14.56
DELTA = 10° 32' 34.64" (LT)
D = 19' 05' 55"
T = 27.68'
L = 55.20'
R = 300.00'
PRC = 207-86.89
PT = 208-42.09
- R** Curve ROUNDABOUT
PI = 10-00.00
DELTA = 359° 59' 59.40" (RT)
D = 136' 25' 07"
T = 0.00'
L = 263.89'
R = 42.00'
PC = 10-00.00
PT = 12-63.89
V = 10 MPH

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Details	1F
Constr. Align. Data	1G
Typical Sections	2A-2A(3)
Exist. Drain. Descr.	2E
US-33 Profile	4A
Rte. 20 Profile	4B
Rotary Profile	4B



PROJECT	0033-068-626	SHEET NO.	4
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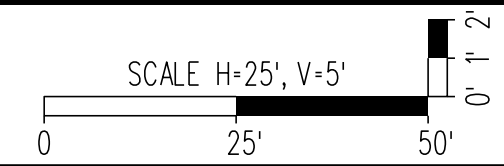
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CULPEPER DISTRICT DESIGN UNIT

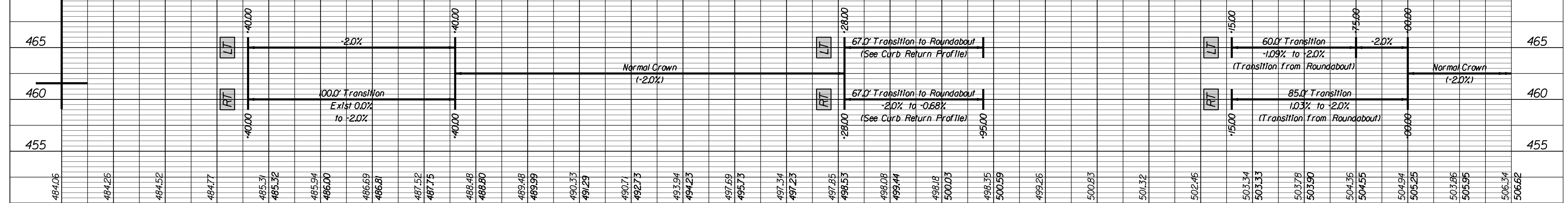
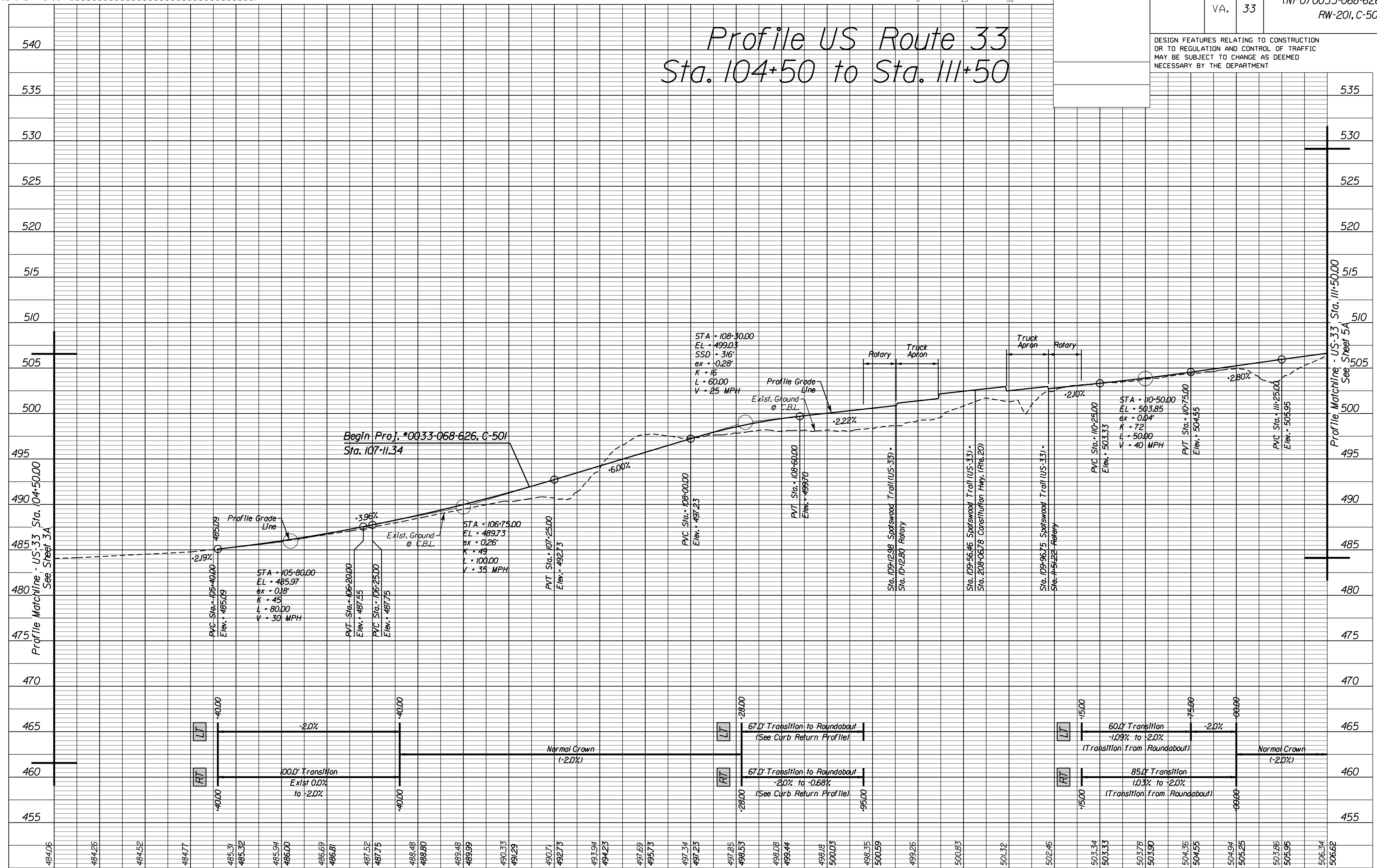
PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*



REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO)	0033-068-626 RW-201, C-501	4A

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

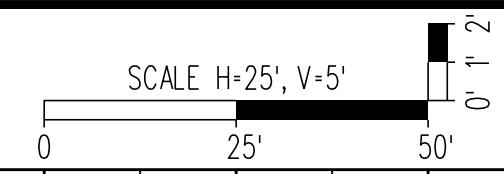
Profile US Route 33 Sta. 104+50 to Sta. 111+50



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CULPEPER DISTRICT DESIGN UNIT

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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

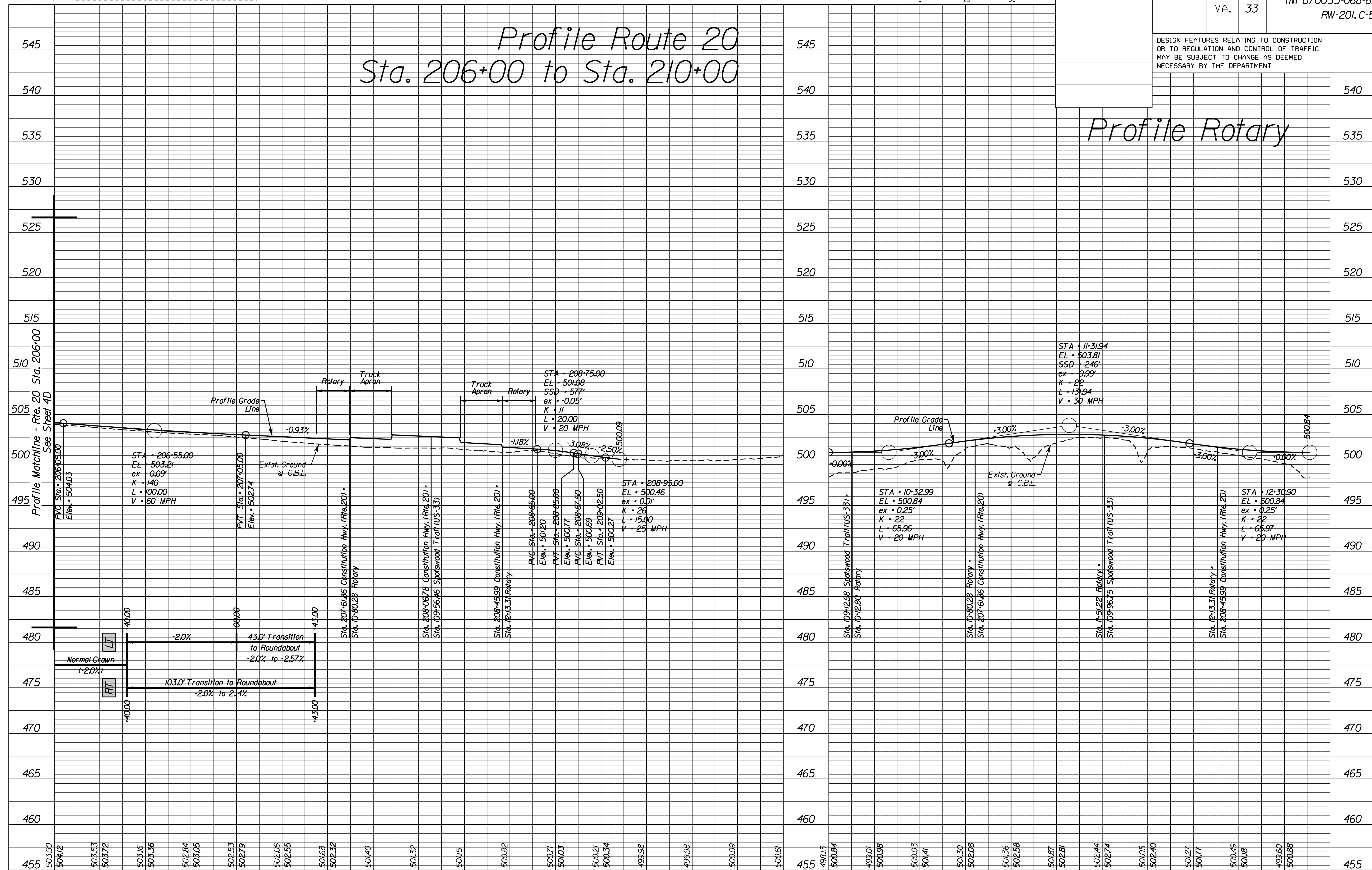


REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	4B

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

Profile Route 20 Sta. 206+00 to Sta. 210+00

Profile Rotary



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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	4C

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

PROPOSED EASEMENT LEGEND

- A** Prop. Temp. Constr. Ease.
- B** Prop. Temp. Constr. Ease. for Entrance Construction
- C** Prop. Perm. Drainage Ease. for Ditch Maintenance
- D** Prop. Perm. Drainage Ease. for Pipe & Inlet Maintenance
- E** Prop. Utility Ease. for Verizon

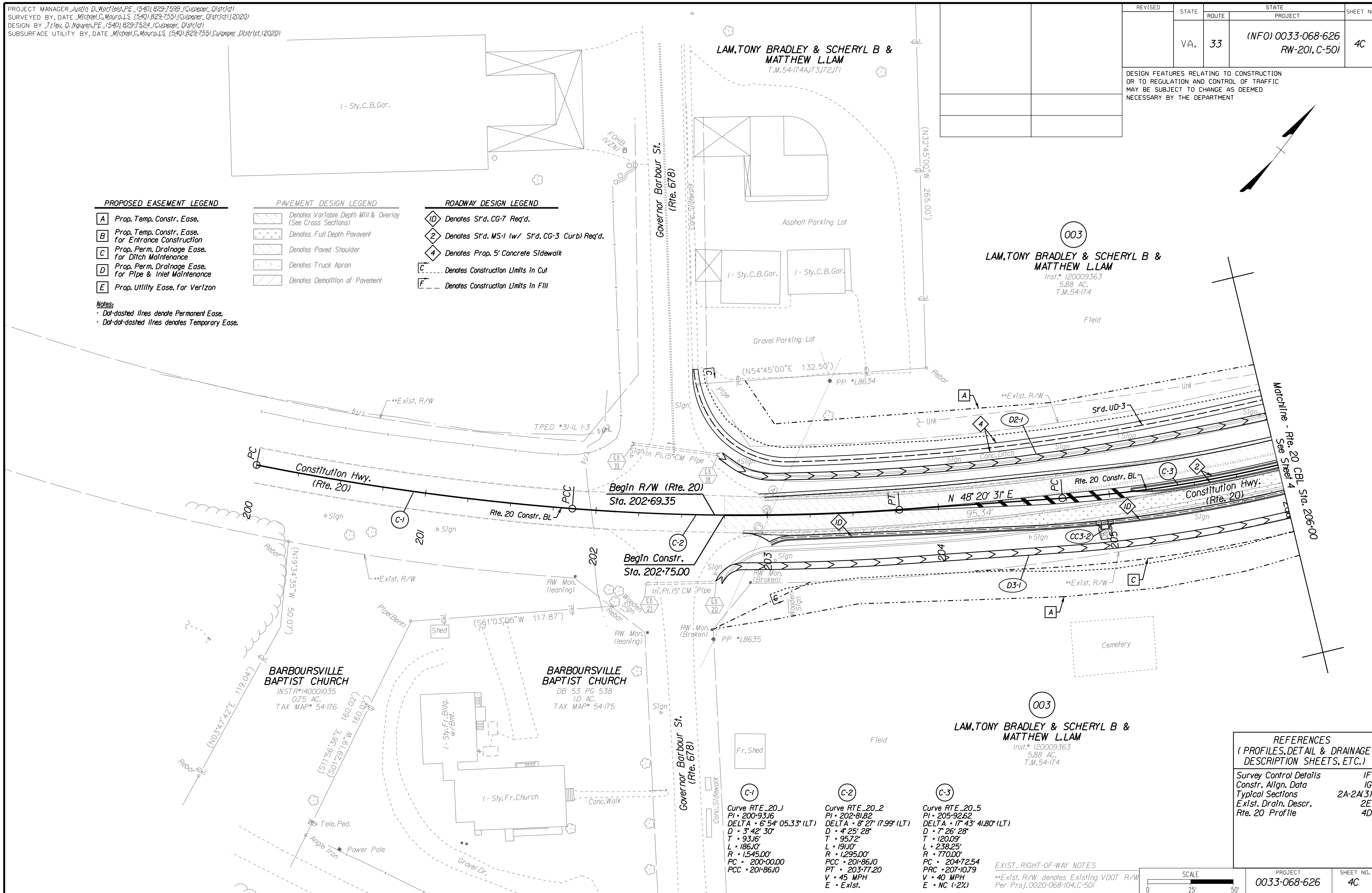
Notes:
 - Dot-dashed lines denote Permanent Ease.
 - Dot-dot-dashed lines denote Temporary Ease.

PAVEMENT DESIGN LEGEND

- Denotes Variable Depth Mill & Overlay (See Cross Sections)
- Denotes Full Depth Pavement
- Denotes Paved Shoulder
- Denotes Truck Apron
- Denotes Demolition of Pavement

ROADWAY DESIGN LEGEND

- 1D** Denotes S't.d. CG-7 Req'd.
- 2** Denotes S't.d. MS-1 (w/ S't.d. CG-3 Curb) Req'd.
- 4** Denotes Prop. 5' Concrete Sidewalk
- C** Denotes Construction Limits In Cut
- E** Denotes Construction Limits In Fill

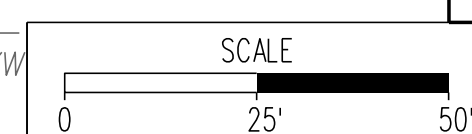


REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Details	1F
Constr. Align. Data	1G
Typical Sections	2A-2A(3)
Exist. Drain. Descr.	2E
Rte. 20 Profile	4D

Curve	RTE_20_1	RTE_20_2	RTE_20_5
PI	200-93.16	202-81.82	205-92.62
DELTA	6° 54' 05.33" (LT)	8° 27' 17.99" (LT)	17° 43' 41.80" (LT)
D	3' 42' 30"	4' 25' 28"	7' 26' 28"
T	93.16'	95.72'	120.09'
L	186.10'	191.10'	238.25'
R	1,545.00'	1,295.00'	770.00'
PCC	200-00.00	201-86.10	204-72.54
PT	203-77.20	207-10.79	207-10.79
V	45 MPH	45 MPH	45 MPH
E	Exist.	Exist.	NC (-2%)

EXIST. RIGHT-OF-WAY NOTES
 **Exist. R/W denotes Existing VDOT R/W
 Per Proj. 0020-068-104, C-501



PH PLANS

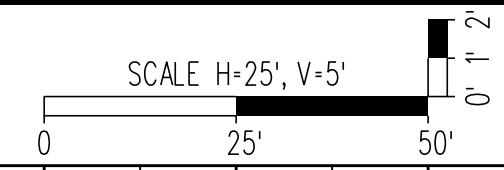
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

PROJECT	0033-068-626	SHEET NO.	4C
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CULPEPER DISTRICT DESIGN UNIT

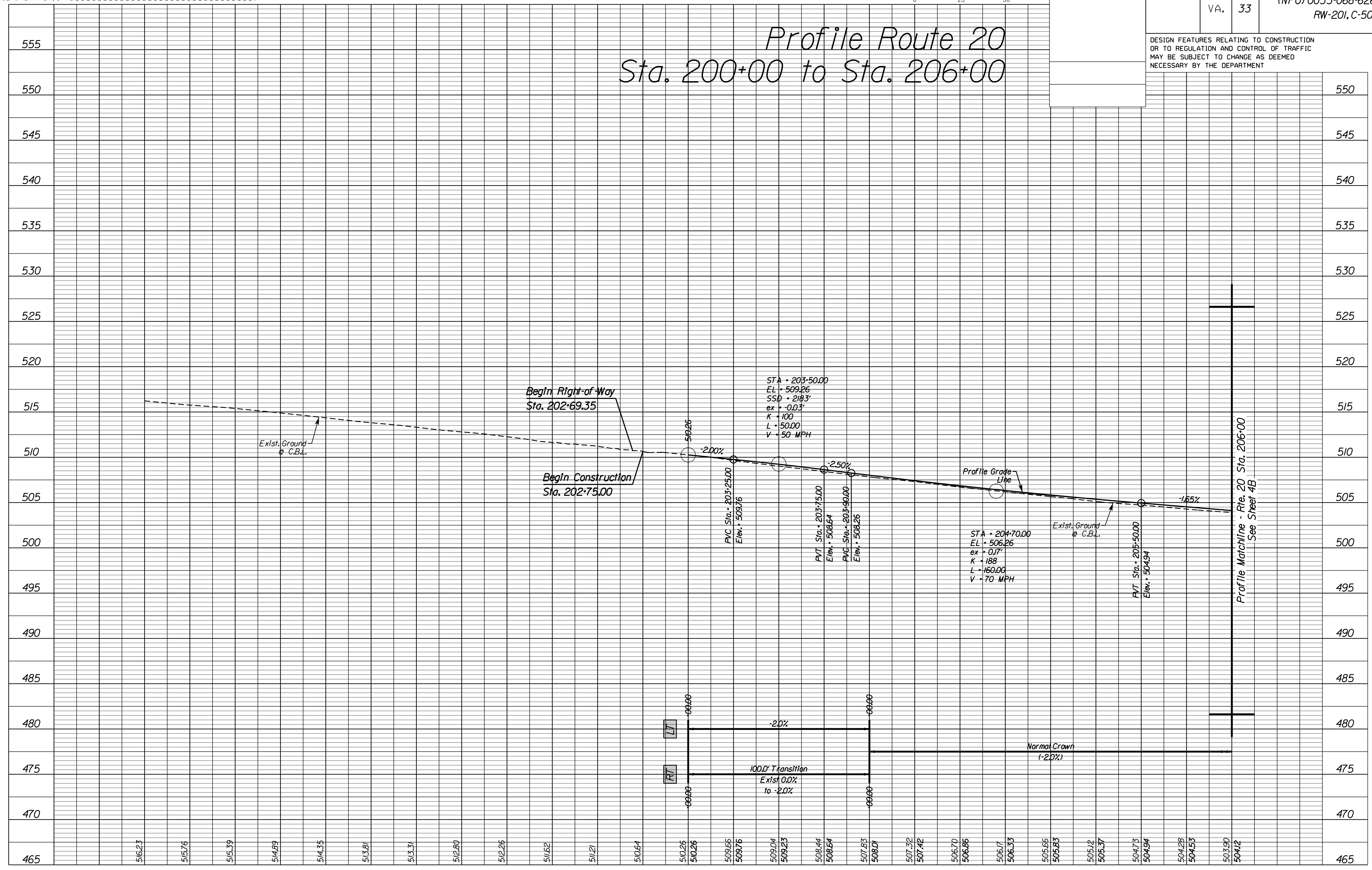
PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trieu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*



REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO)	0033-068-626 RW-201, C-501	4D

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

Profile Route 20 Sta. 200+00 to Sta. 206+00



Profile Matchline - Rte. 20 Sta. 206+00
See Sheet 4B

200+00 201+00 202+00 203+00 204+00 205+00 206+00

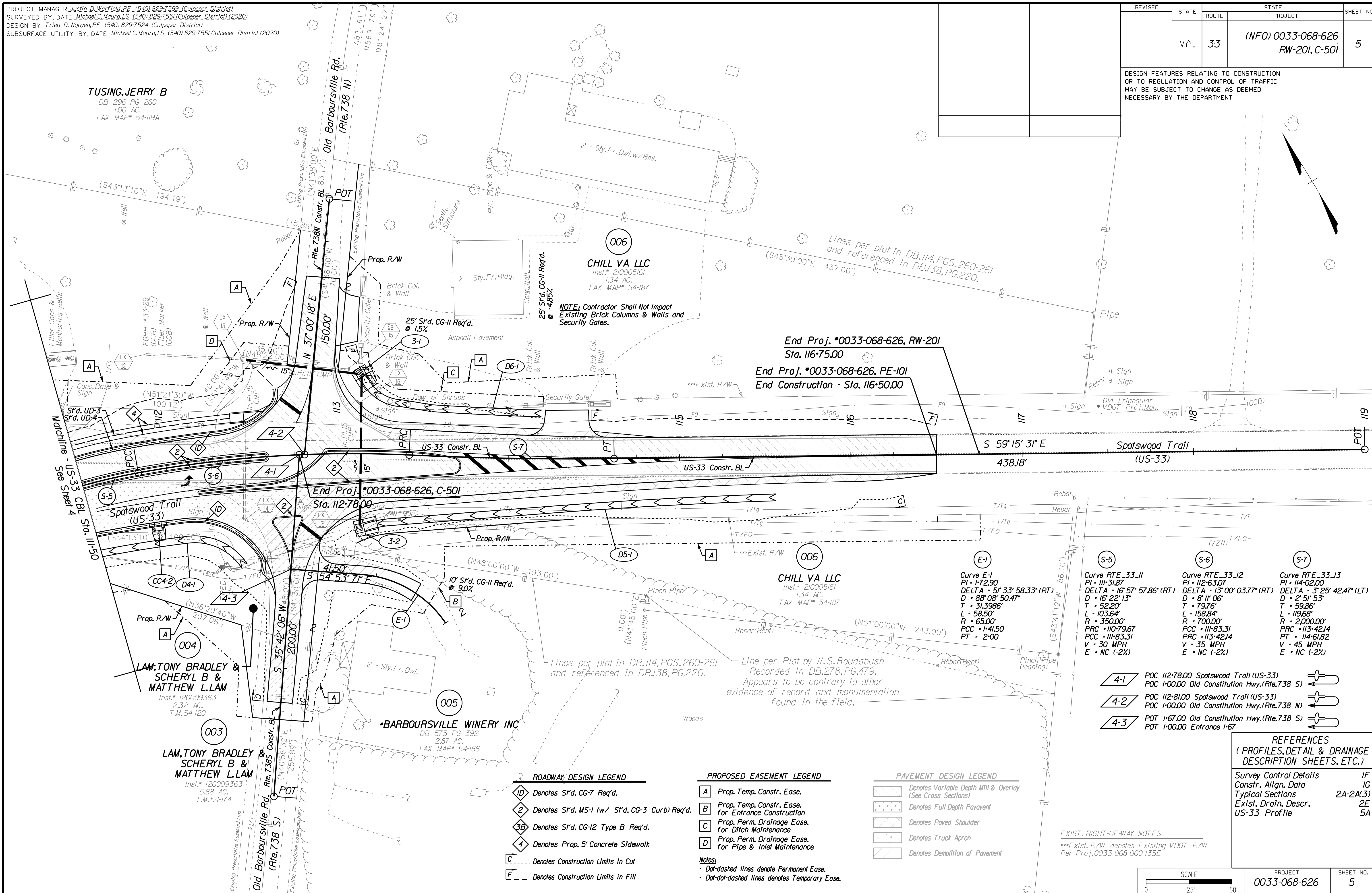
PH PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
 DESIGN BY *Trileu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	5

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



PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

Symbol	Description
4-1	POC 112-78.00 Spotswood Trail (US-33) POC 1-00.00 Old Constitution Hwy. (Rte. 738 S)
4-2	POC 112-81.00 Spotswood Trail (US-33) POC 1-00.00 Old Constitution Hwy. (Rte. 738 N)
4-3	POT 1-67.00 Old Constitution Hwy. (Rte. 738 S) POT 1-00.00 Entrance 1-67

Symbol	Description
A	Prop. Temp. Constr. Ease.
B	Prop. Temp. Constr. Ease. for Entrance Construction
C	Prop. Perm. Drainage Ease. for Ditch Maintenance
D	Prop. Perm. Drainage Ease. for Pipe & Inlet Maintenance

Symbol	Description
1/4" (hatched)	Denotes Variable Depth Mill & Overlay (See Cross Sections)
1/4" (dots)	Denotes Full Depth Pavement
1/4" (diagonal lines)	Denotes Paved Shoulder
1/4" (cross-hatch)	Denotes Truck Apron
1/4" (diagonal lines)	Denotes Demolition of Pavement

Symbol	Description
1/4" (dashed)	Denotes Construction Limits In Cut
1/4" (dot-dashed)	Denotes Construction Limits In Fill

Symbol	Description
IF	Survey Control Details
1G	Constr., Align, Data
2A-2A(3)	Typical Sections
2E	Exst. Drain. Descr.
5A	US-33 Profile

EXIST. RIGHT-OF-WAY NOTES
 ***Exst. R/W denotes Existing VDOT R/W Per Proj. 0033-068-000-135E

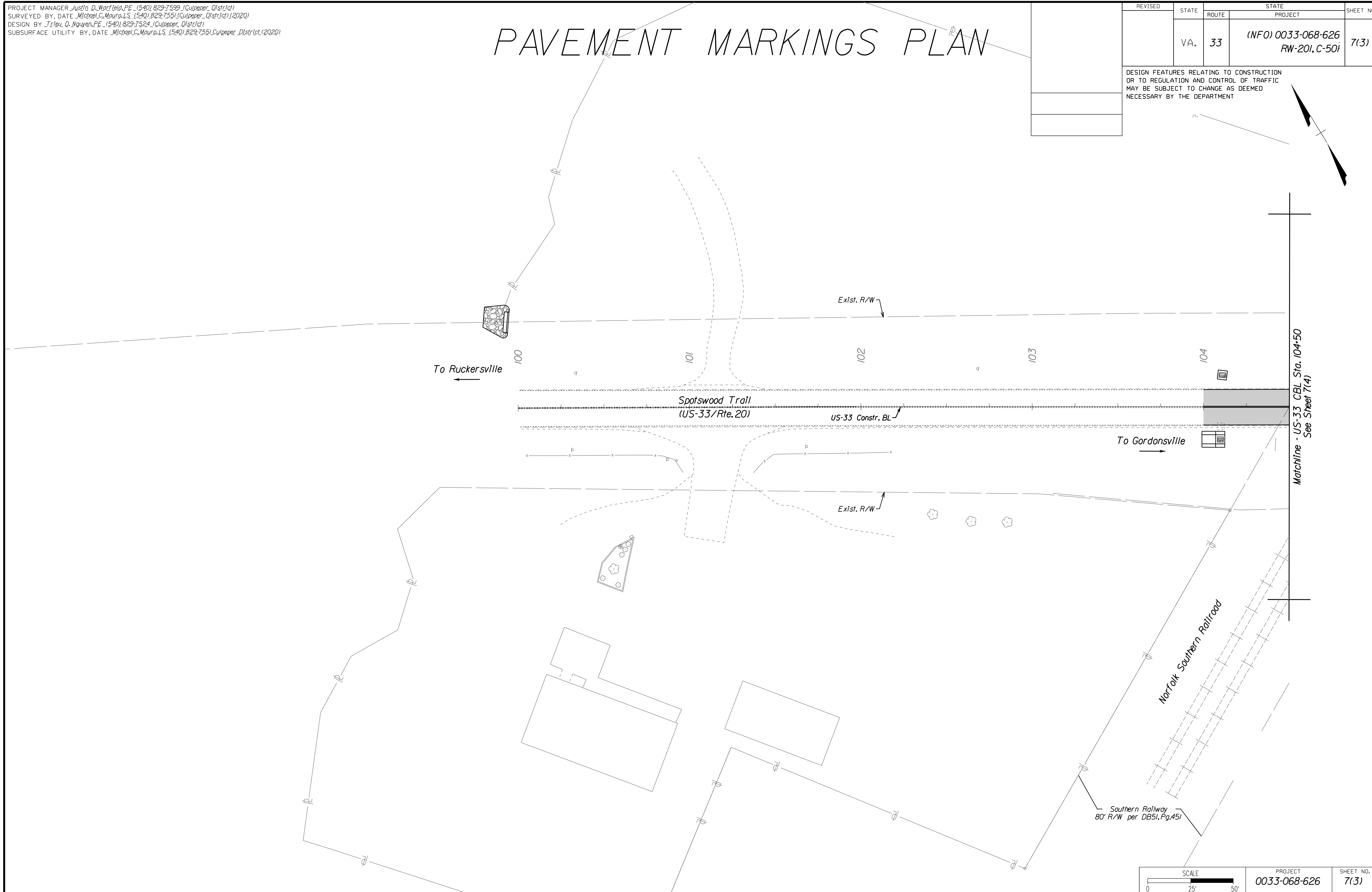
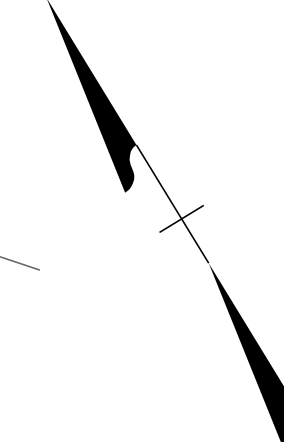
SCALE	PROJECT	SHEET NO.
0 25' 50'	0033-068-626	5

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
DESIGN BY *Trieu D. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

PAVEMENT MARKINGS PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	7(3)

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



SCALE 0 25' 50'	PROJECT 0033-068-626	SHEET NO. 7(3)
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PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

CULPEPER DISTRICT DESIGN UNIT

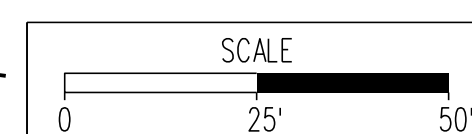
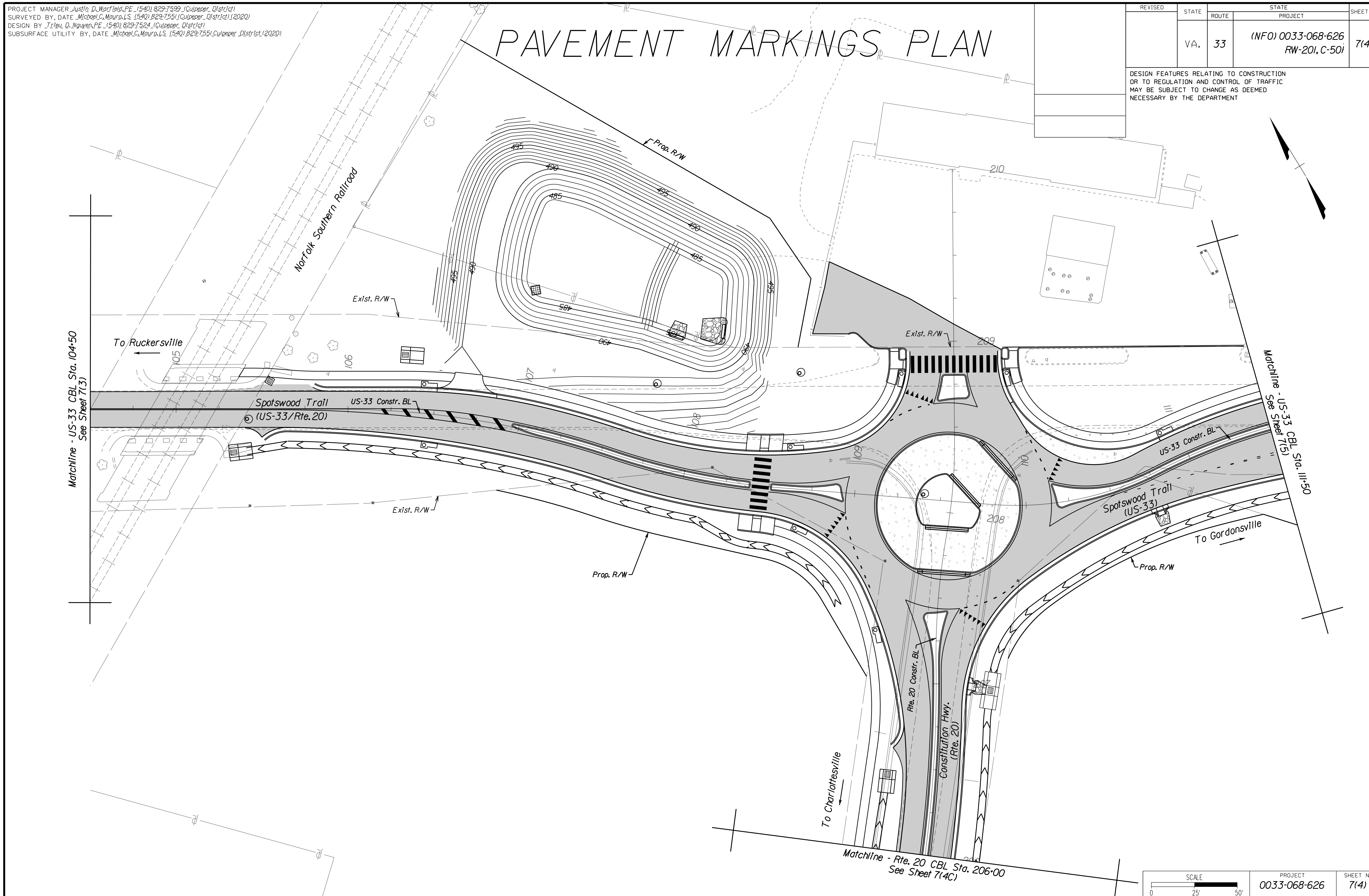
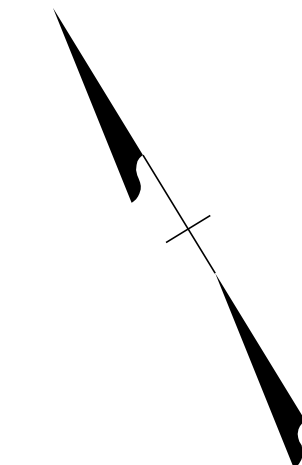
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

PAVEMENT MARKINGS PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	7(4)

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



PROJECT	SHEET NO.
0033-068-626	7(4)

PH PLANS

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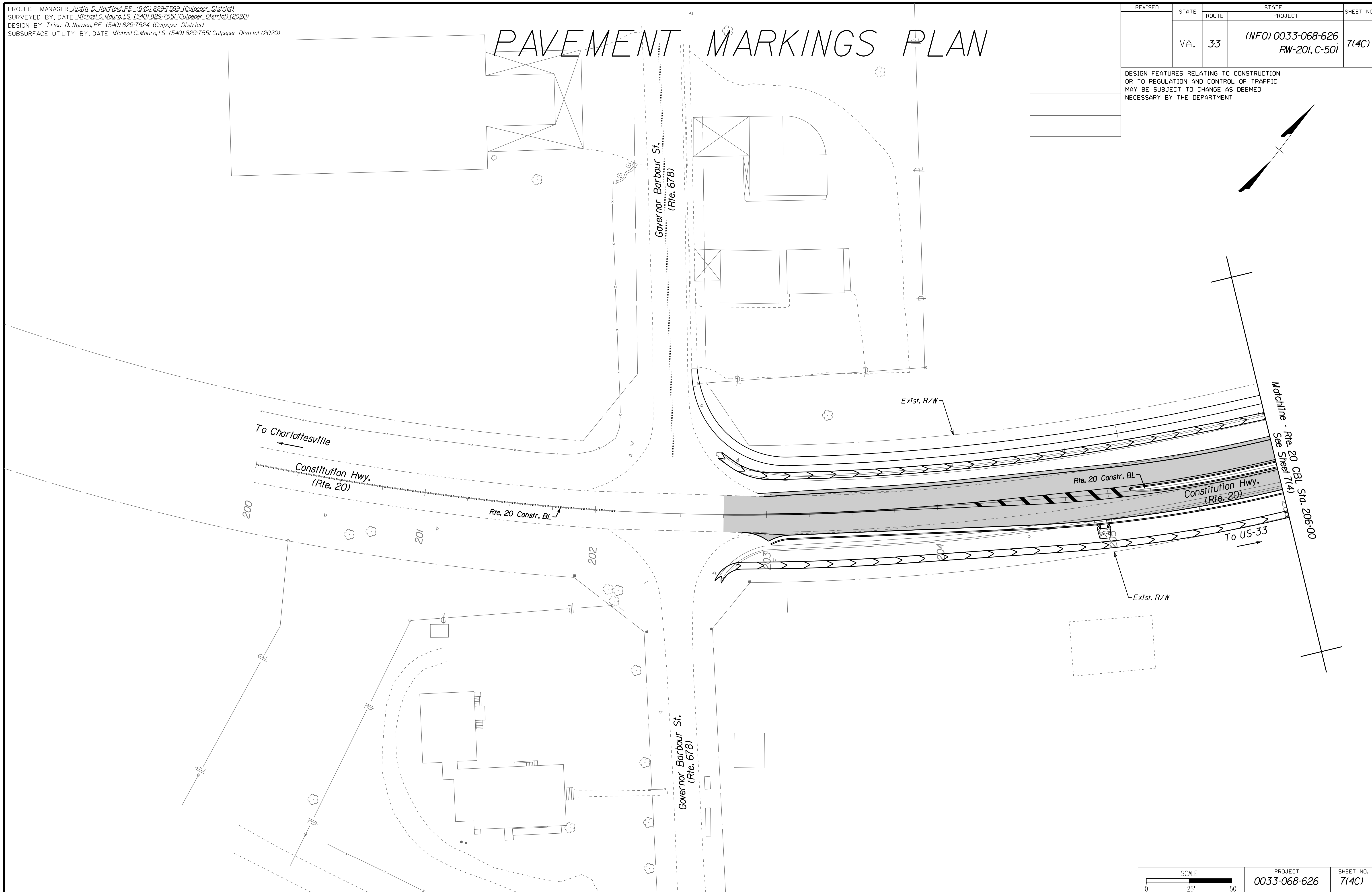
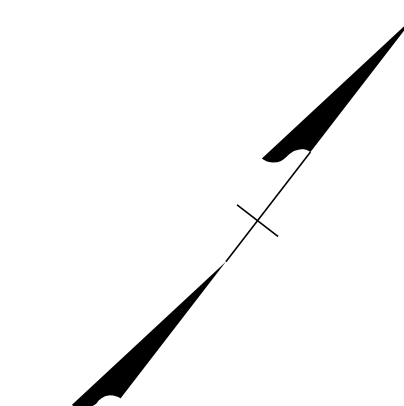
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
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SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

PAVEMENT MARKINGS PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	7(4C)

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



PROJECT	SHEET NO.
0033-068-626	7(4C)

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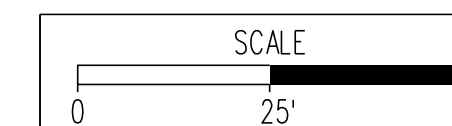
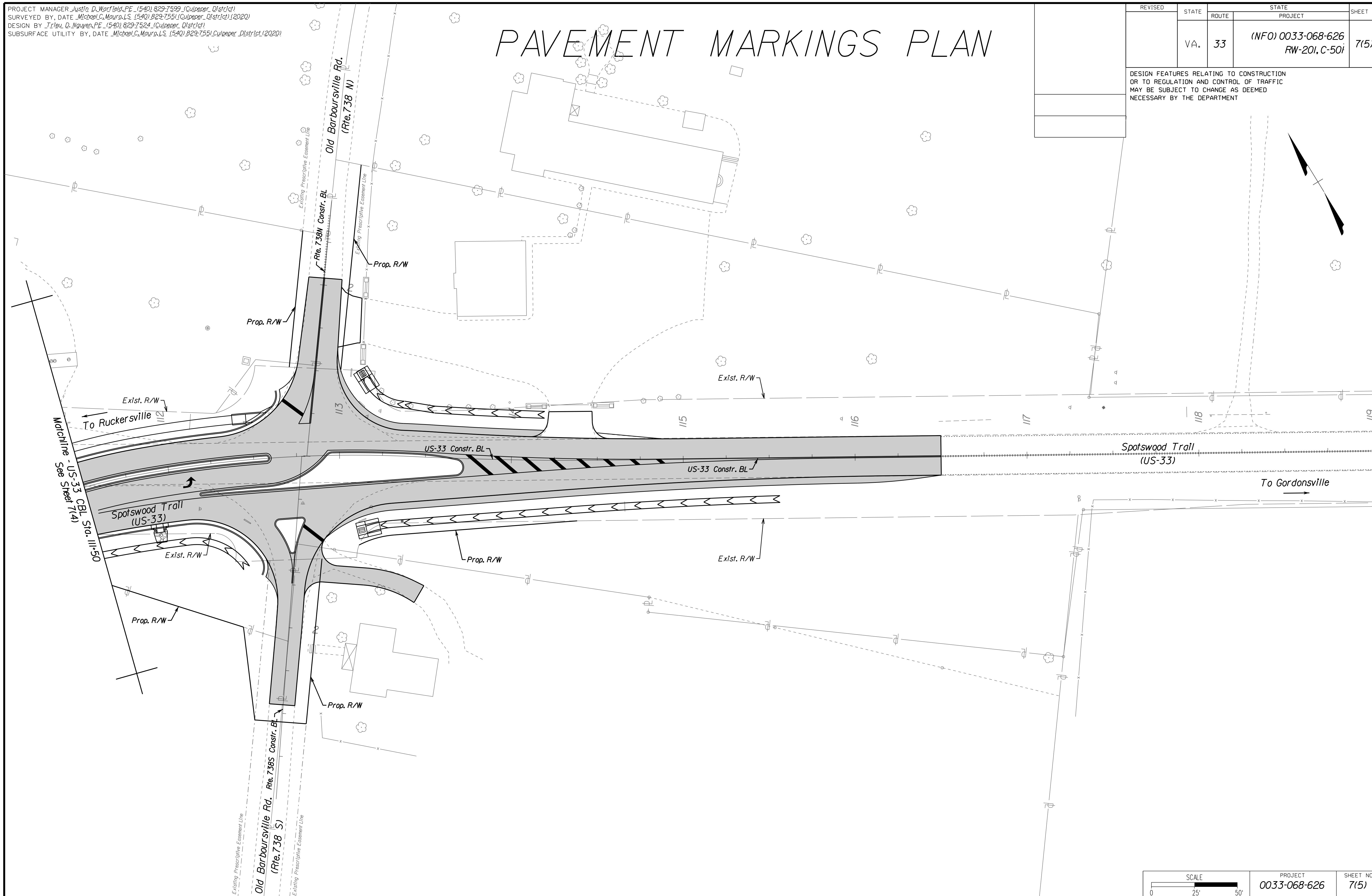
CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Warfield, PE (540) 829-7599 (Culpeper District)*
 SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
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 SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

PAVEMENT MARKINGS PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-50i	7(5)

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



PROJECT
0033-068-626

SHEET NO.
7(5)

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PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*
DESIGN BY *Trieu Q. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

CROSS SECTIONS

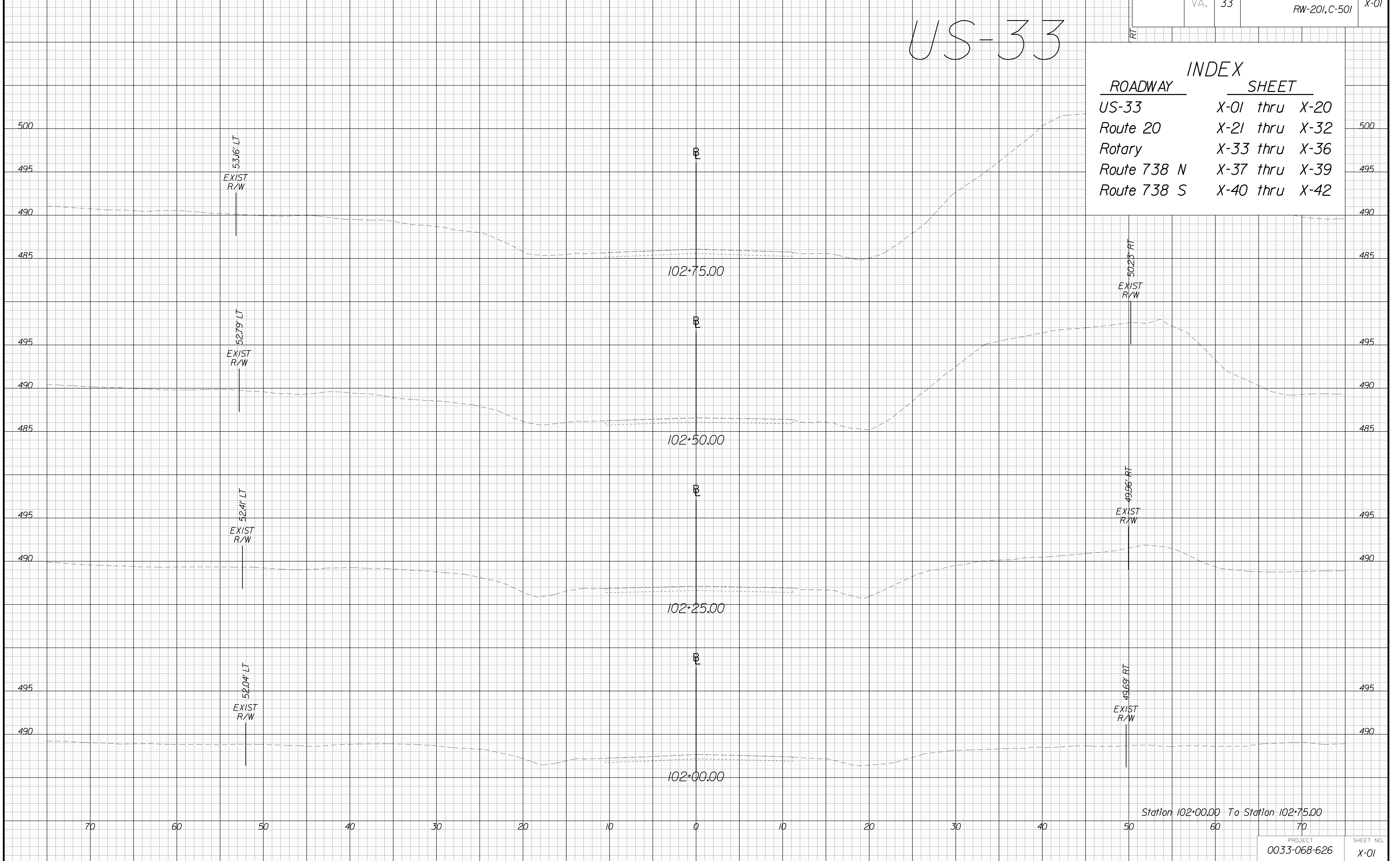
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626	RW-201, C-501	X-01

US-33

INDEX	
ROADWAY	SHEET
US-33	X-01 thru X-20
Route 20	X-21 thru X-32
Rotary	X-33 thru X-36
Route 738 N	X-37 thru X-39
Route 738 S	X-40 thru X-42



Station 102+00.00 To Station 102+75.00

PROJECT 0033-068-626
SHEET NO. X-01

PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*
DESIGN BY *Trieu Q. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

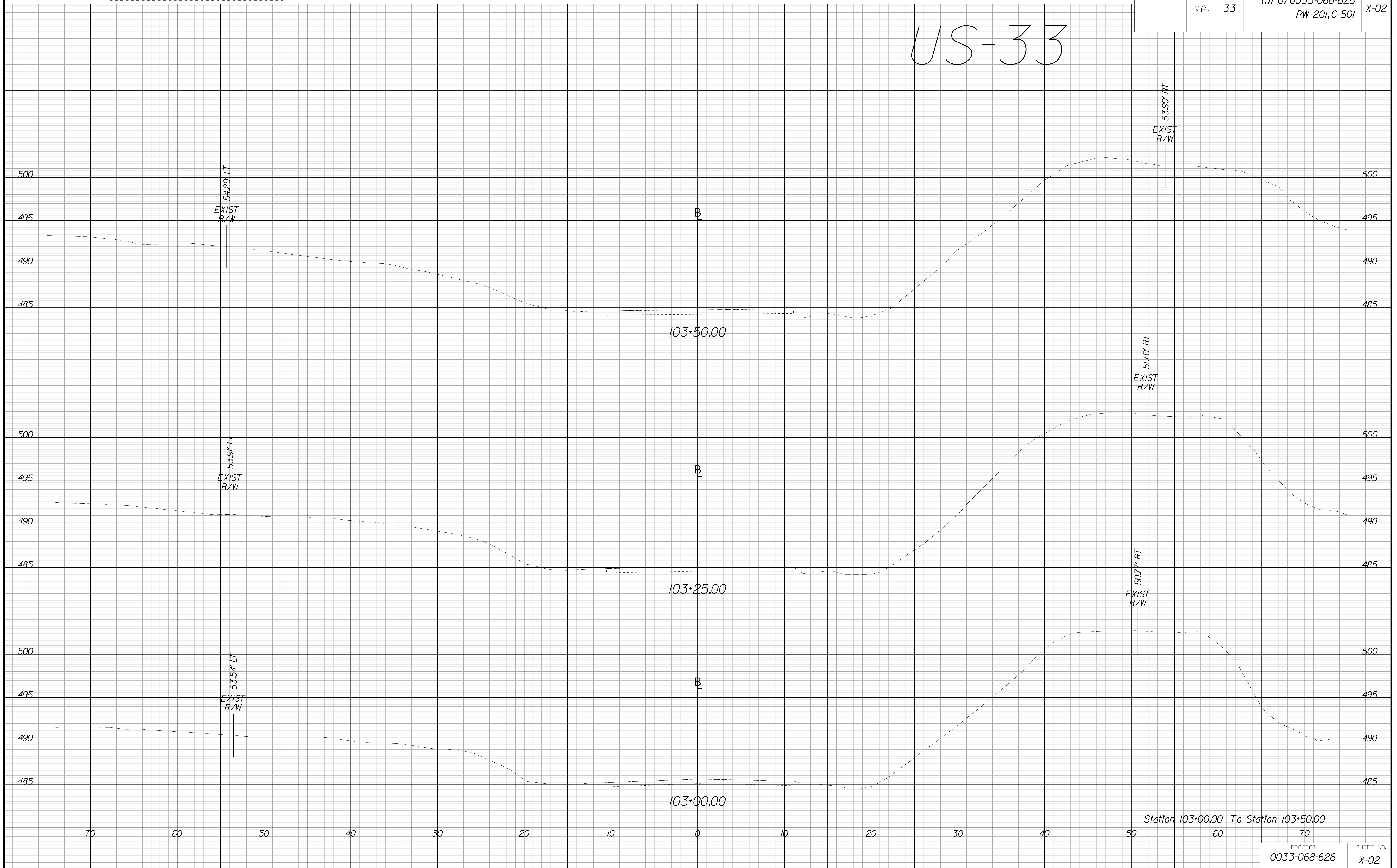
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201, C-501	X-02

US-33



Station 103+00.00 To Station 103+50.00

PROJECT	SHEET NO.
0033-068-626	X-02

PH PLANS

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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*
DESIGN BY *Trieu Q. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

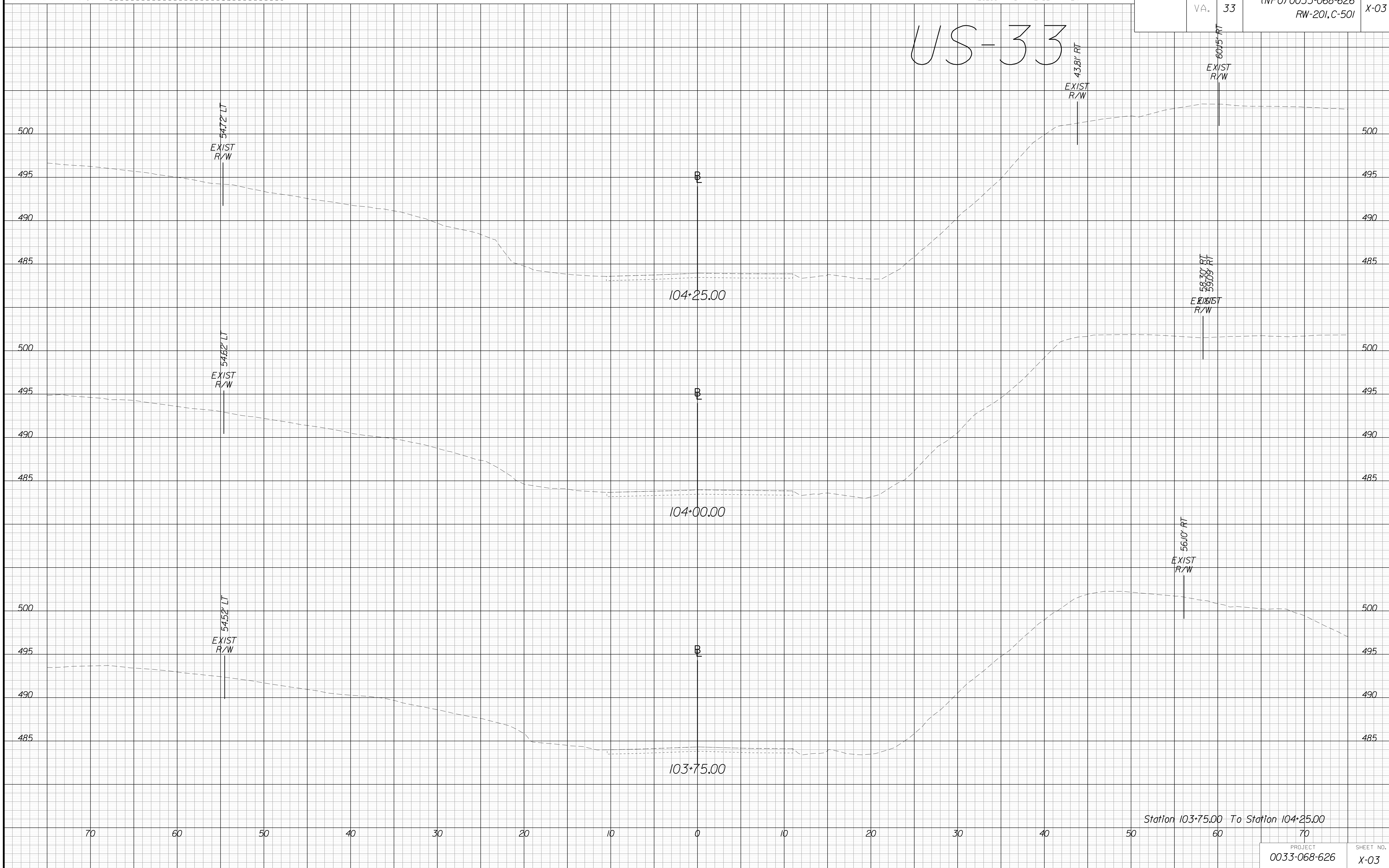
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201, C-501	X-03

US-33



Station 103+75.00 To Station 104+25.00

PROJECT	SHEET NO.
0033-068-626	X-03

PH PLANS

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CULPEPER DISTRICT DESIGN UNIT

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*
DESIGN BY *Trieu Q. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

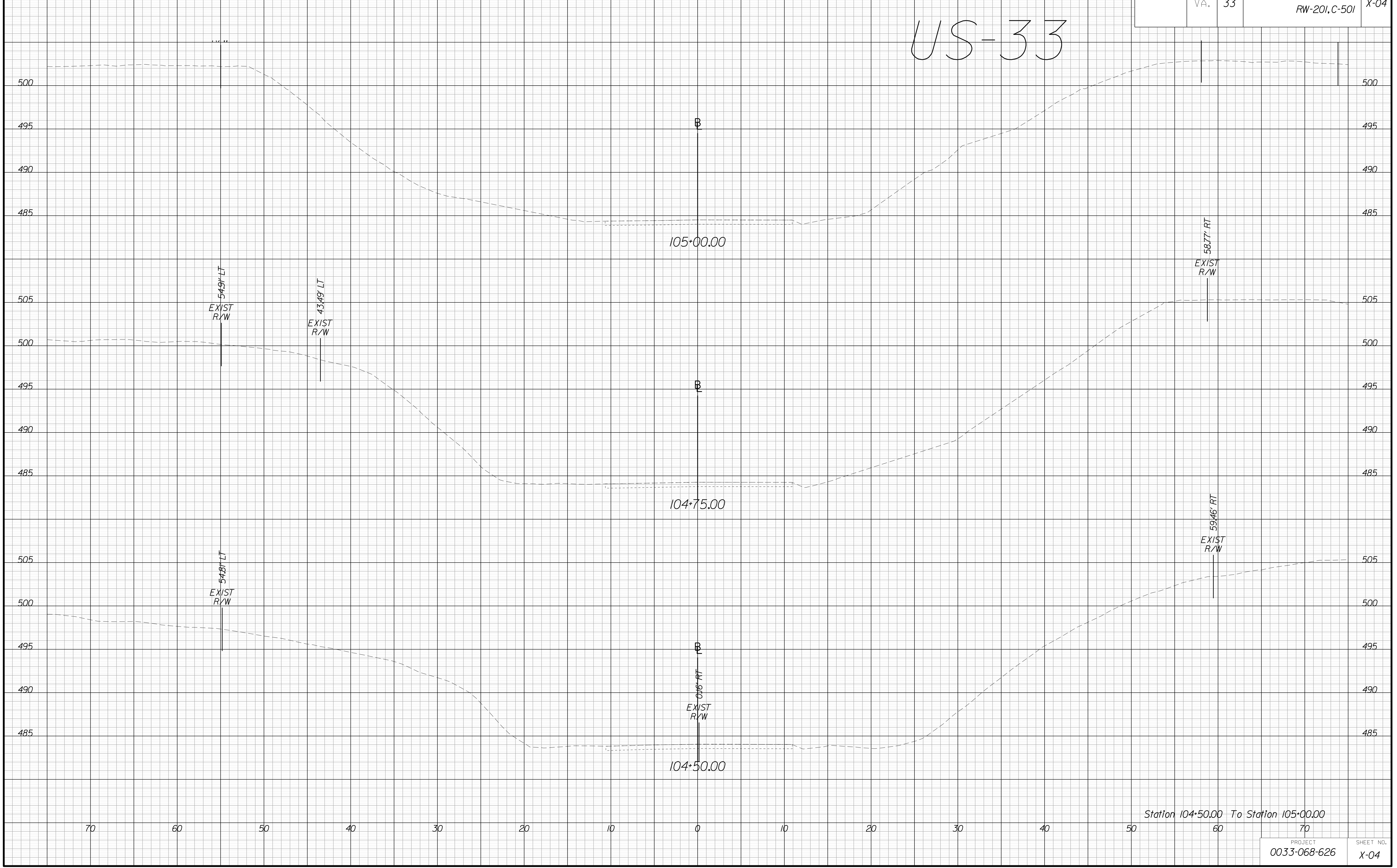
CROSS SECTIONS

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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.	33		(INFO) 0033-068-626 RW-201, C-501	X-04

US-33



Station 104+50.00 To Station 105+00.00

PROJECT	SHEET NO.
0033-068-626	X-04

PH PLANS

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PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*
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SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

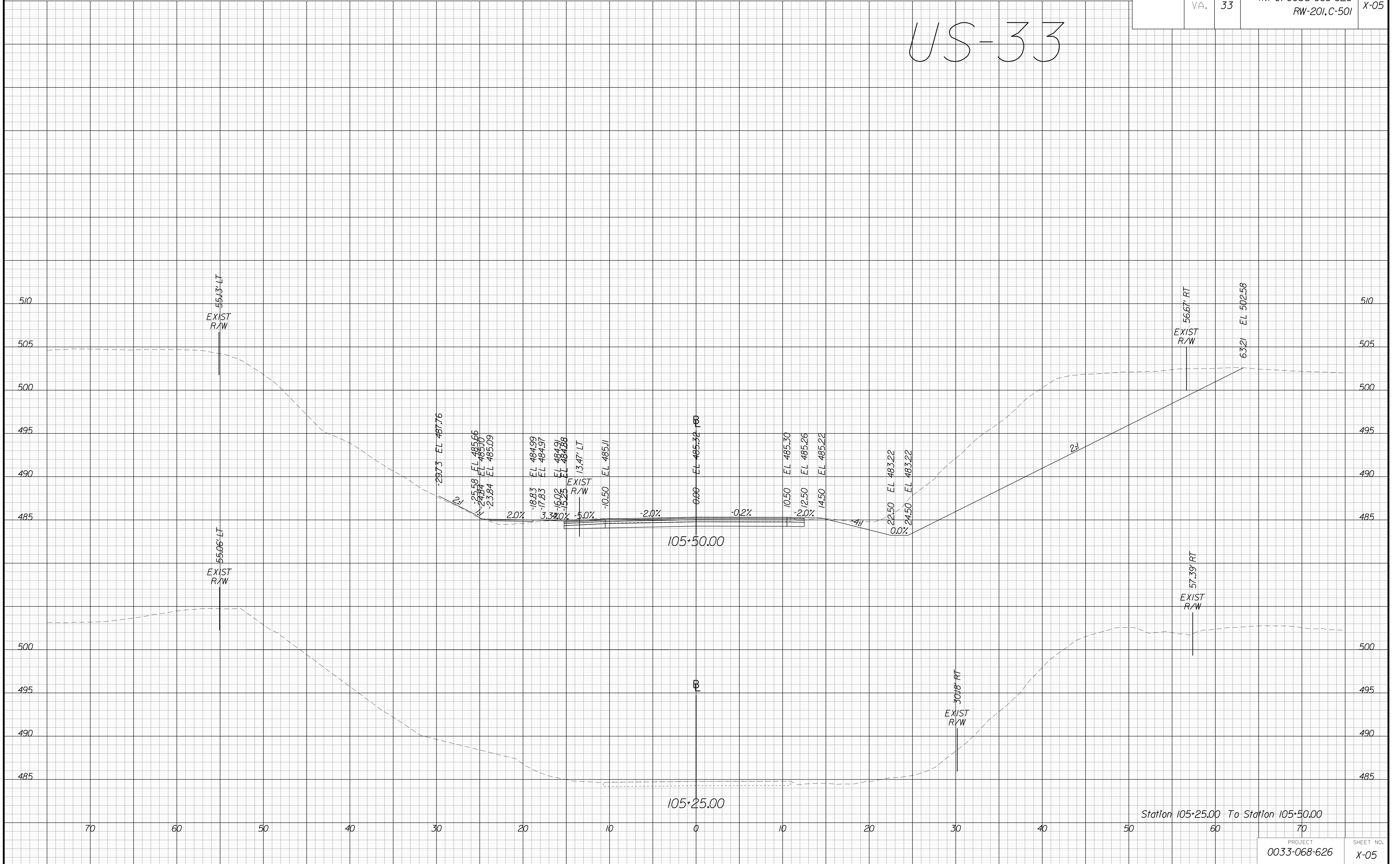
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201, C-501	X-05

US-33



PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
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SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

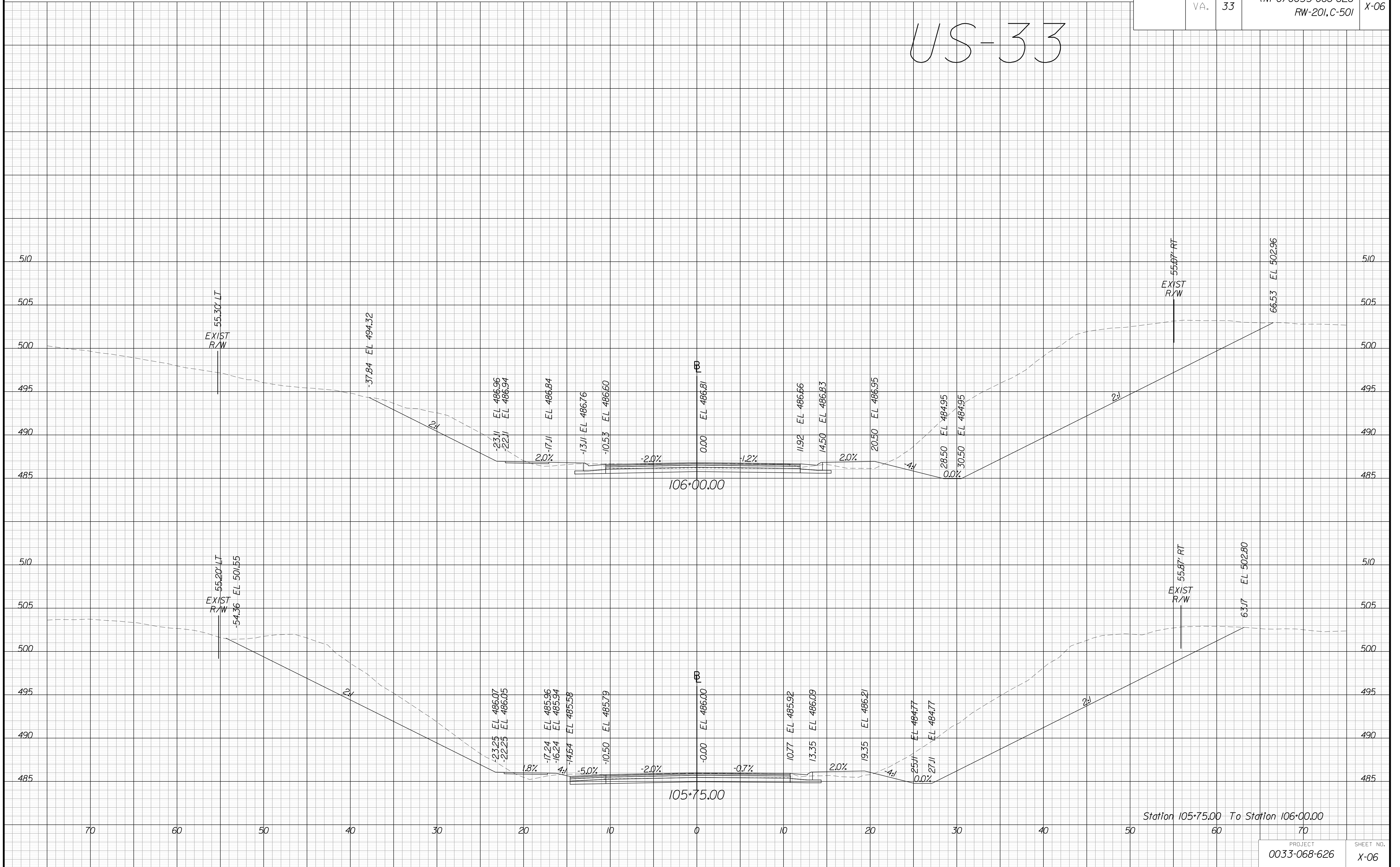
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201,C-501	X-06

US-33



PH PLANS

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
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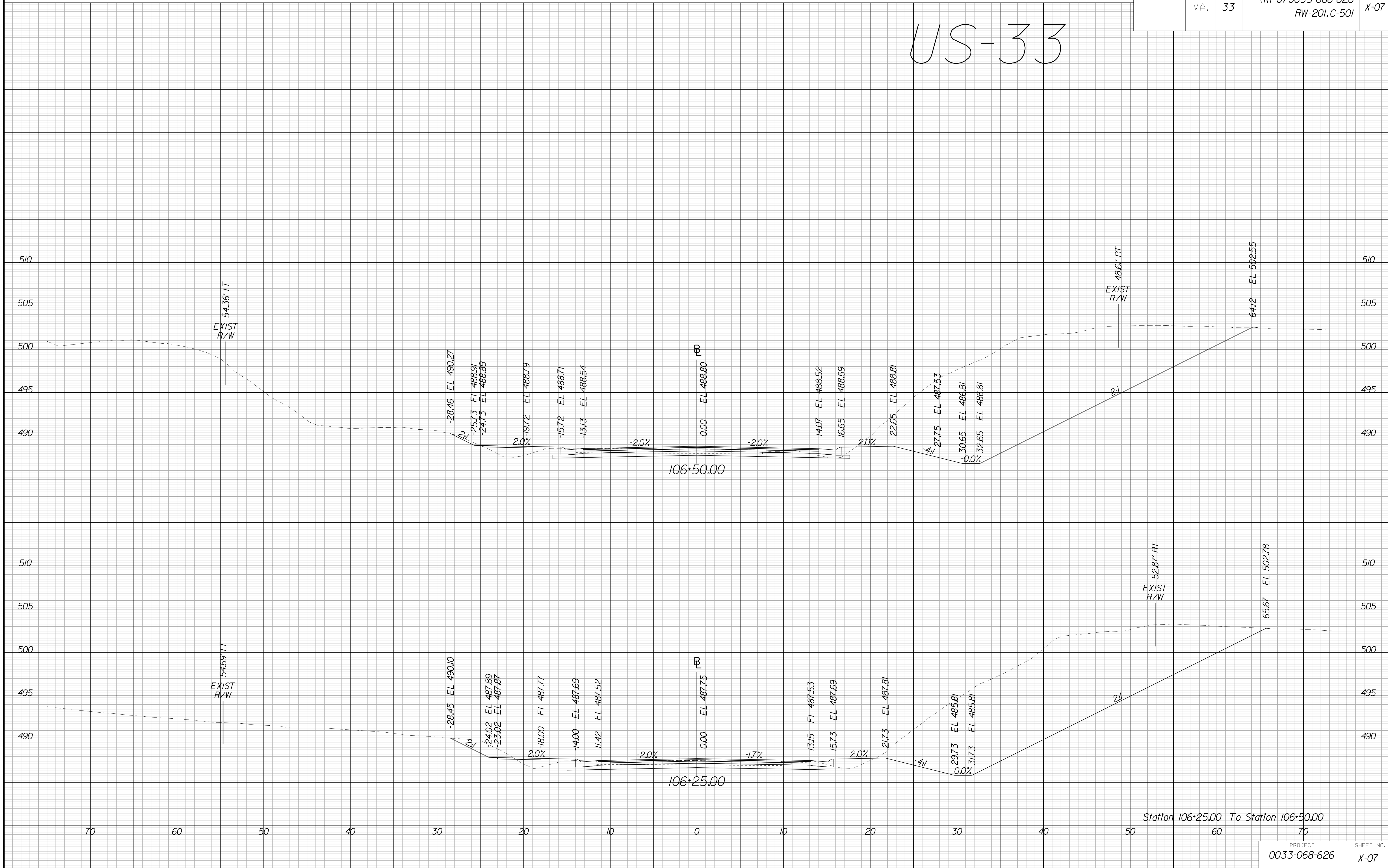
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201, C-501	X-07

US-33



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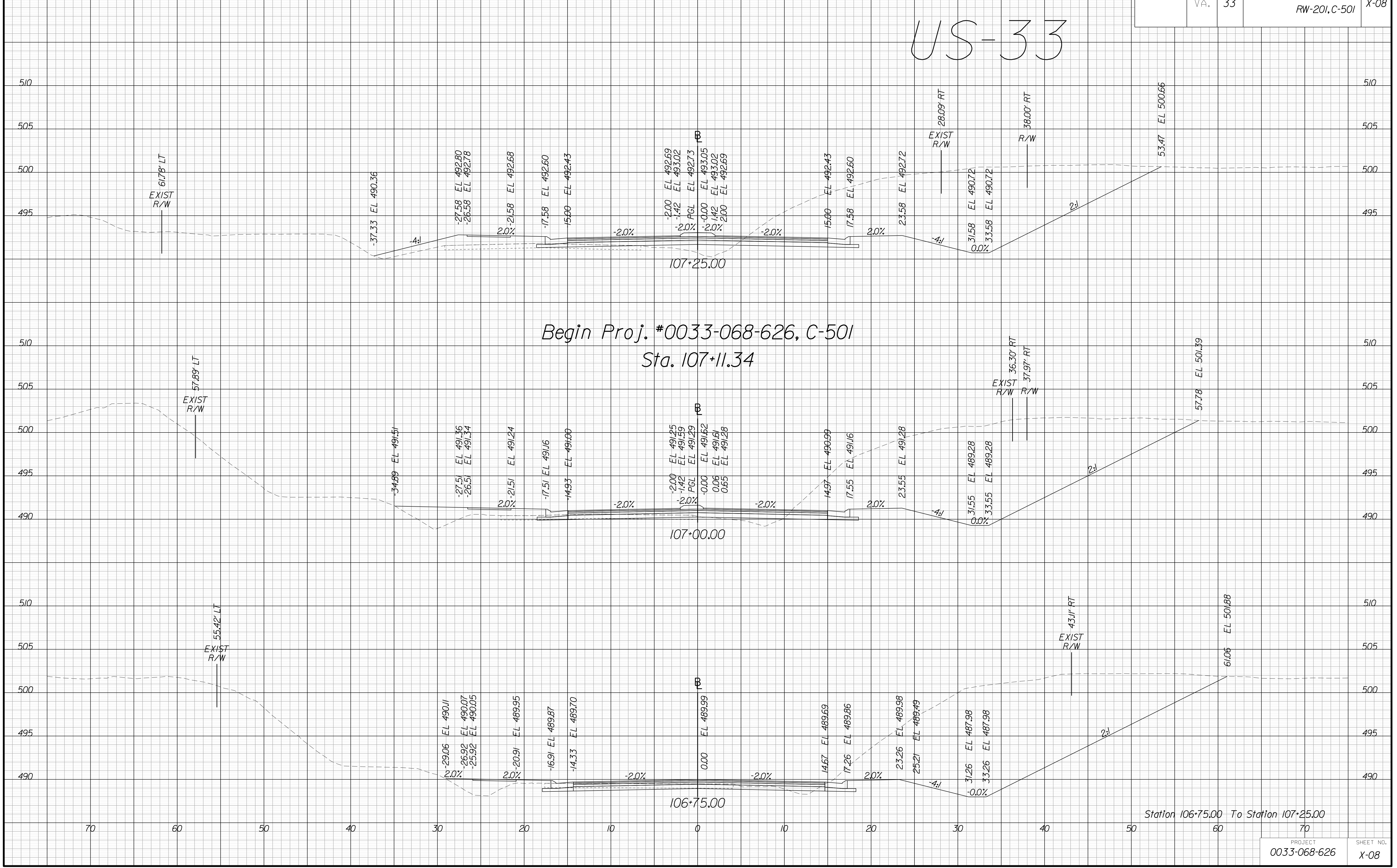
CROSS SECTIONS

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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.	33	(INFO)	0033-068-626 RW-201, C-501	X-08

US-33



Begin Proj. #0033-068-626, C-501
Sta. 107+11.34

Station 106+75.00 To Station 107+25.00

PROJECT	SHEET NO.
0033-068-626	X-08

PH PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
SURVEYED BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*
DESIGN BY *Trieu Q. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, LS (540) 829-7551 (Culpeper District) (2020)*

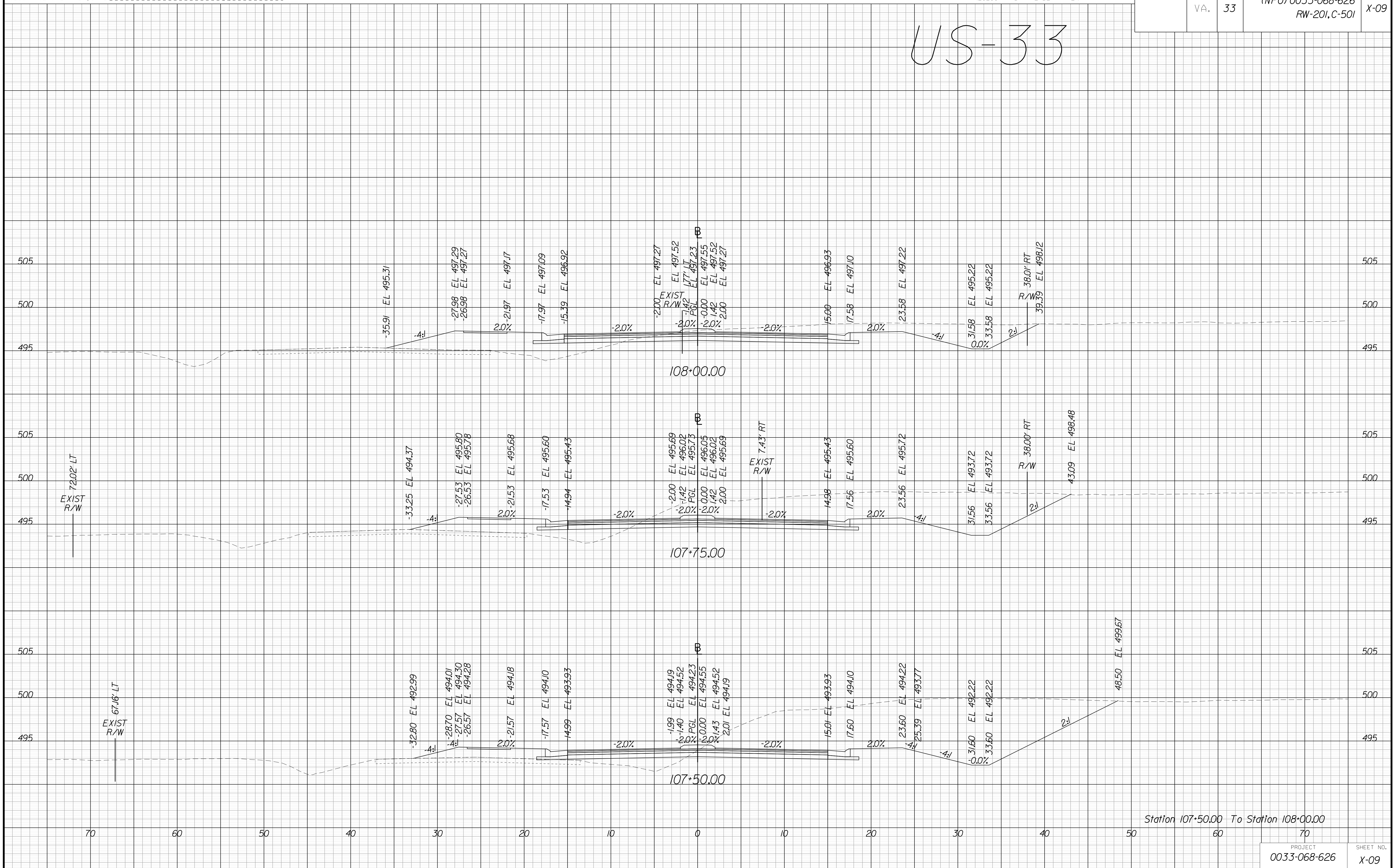
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201, C-501	X-09

US-33



PH PLANS

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SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

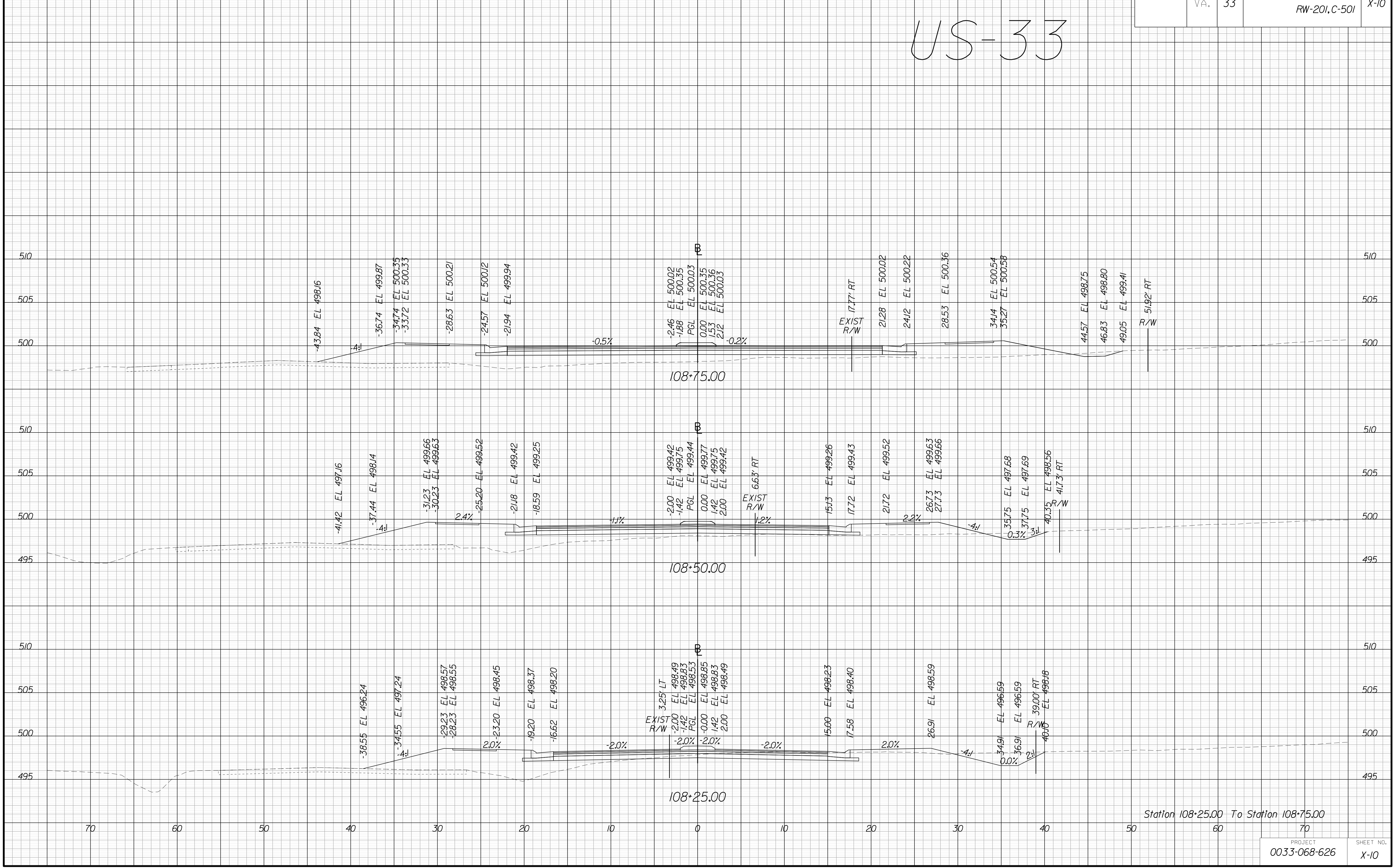
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33	(INFO)	0033-068-626 RW-201, C-501	X-10

US-33



Station 108+25.00 To Station 108+75.00

PH PLANS

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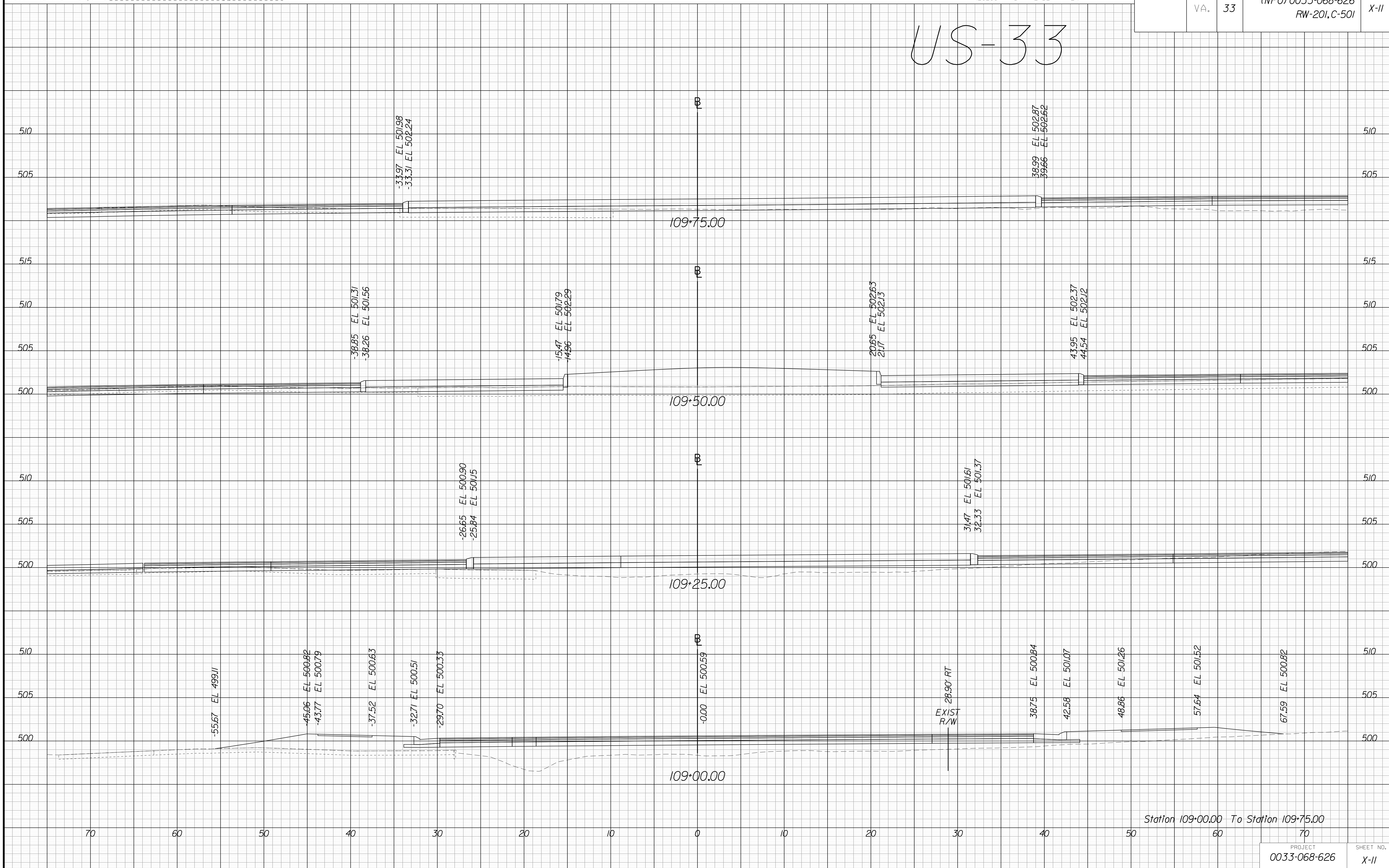
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201,C-501	X-11

US-33



Station 109+00.00 To Station 109+75.00

PROJECT 0033-068-626 SHEET NO. X-11

PH PLANS

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DESIGN BY *Trieu Q. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

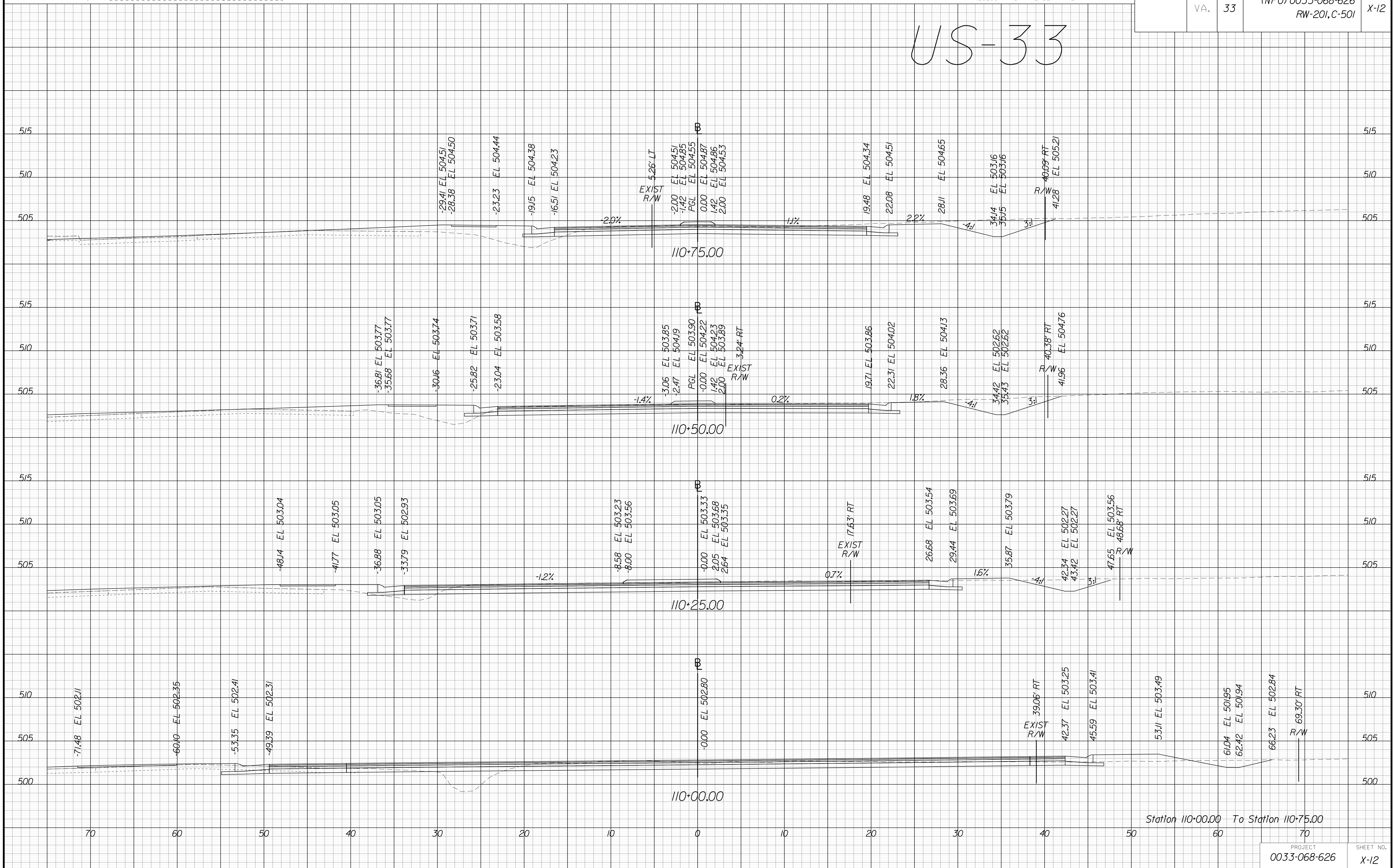
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33	(INFO)	0033-068-626 RW-201,C-501	X-12

US-33



PH PLANS

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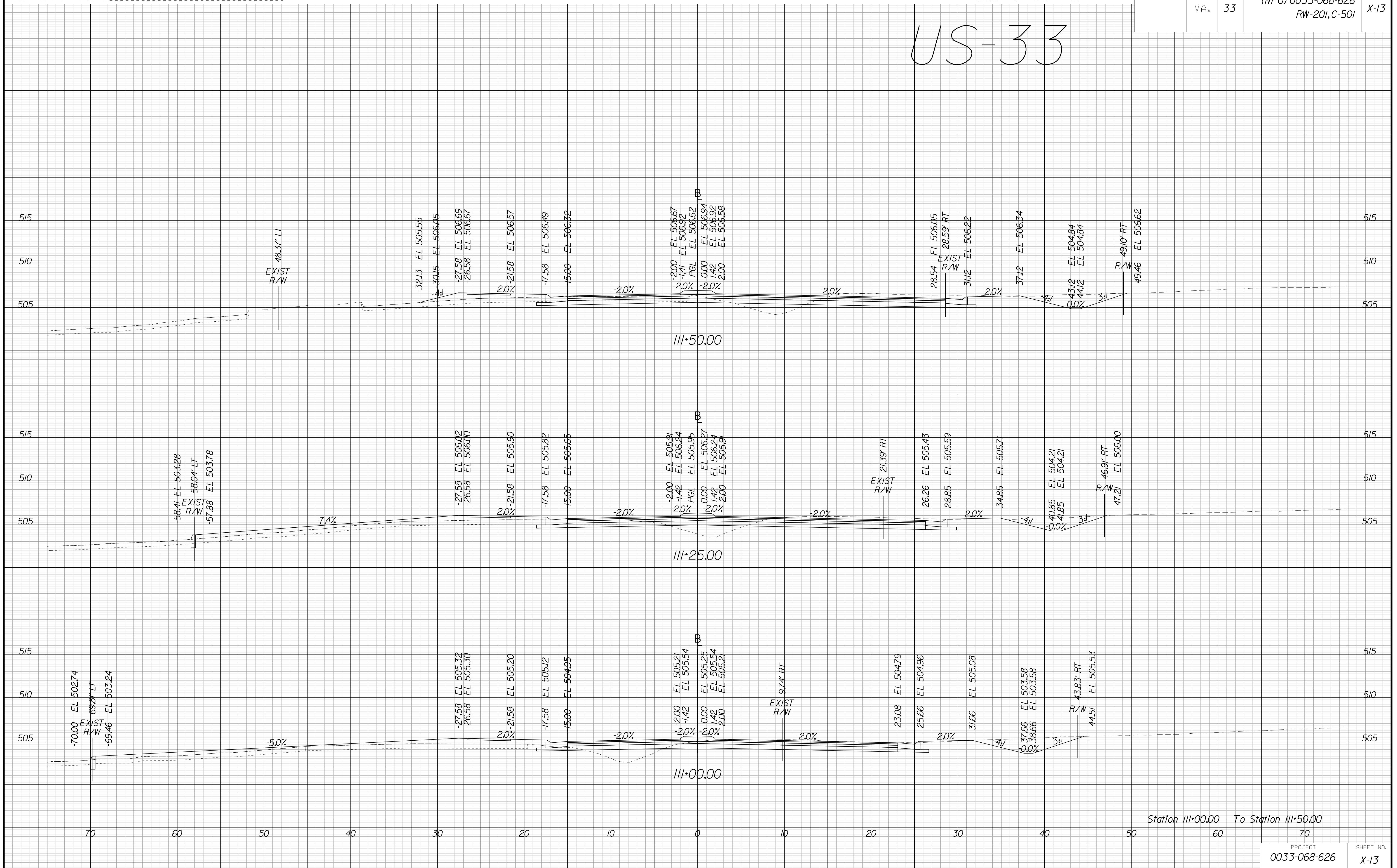
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201,C-501	X-13

US-33



PH PLANS

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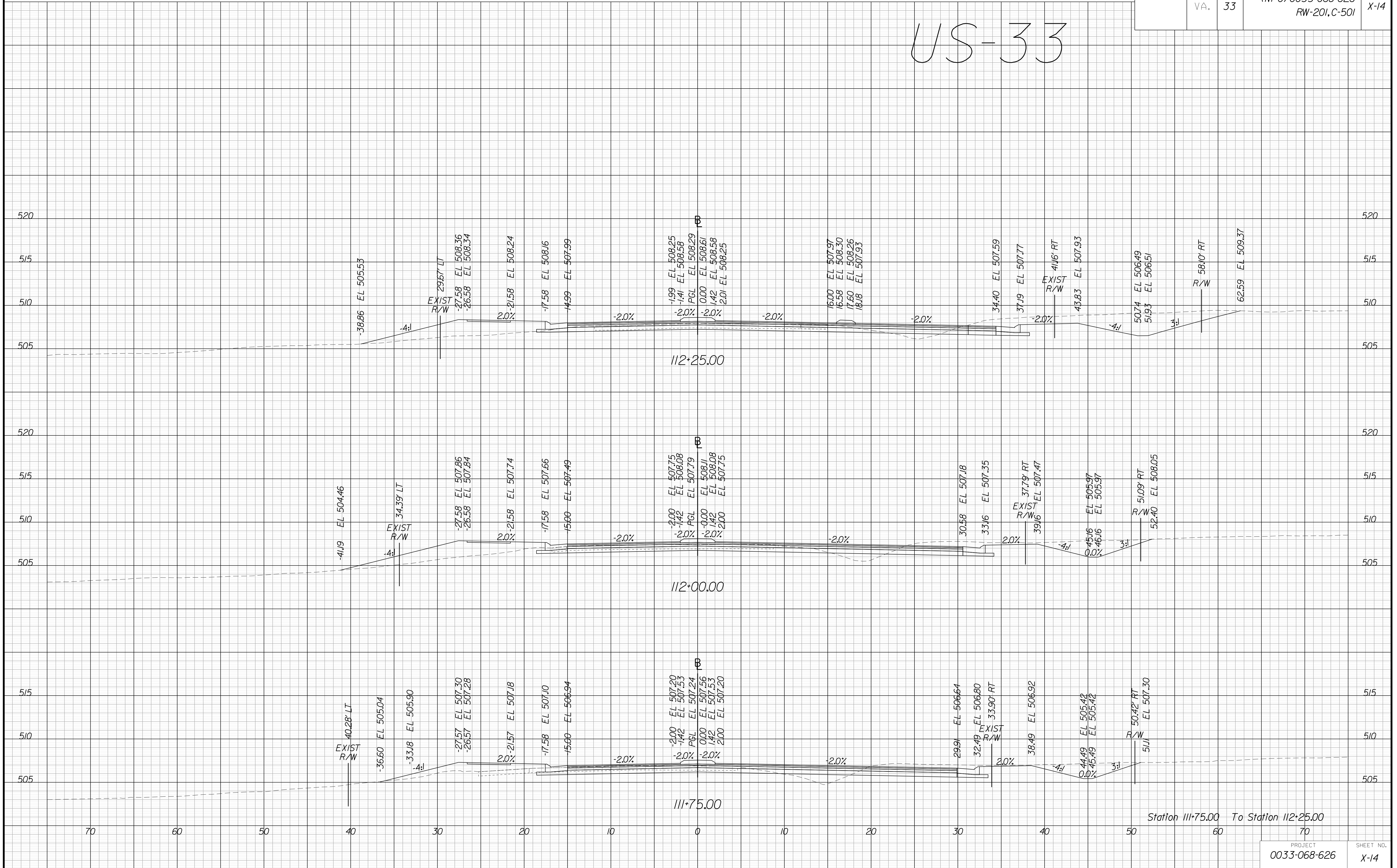
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201,C-501	X-14

US-33



Station 111+75.00 To Station 112+25.00

PROJECT
0033-068-626

SHEET NO.
X-14

PH PLANS

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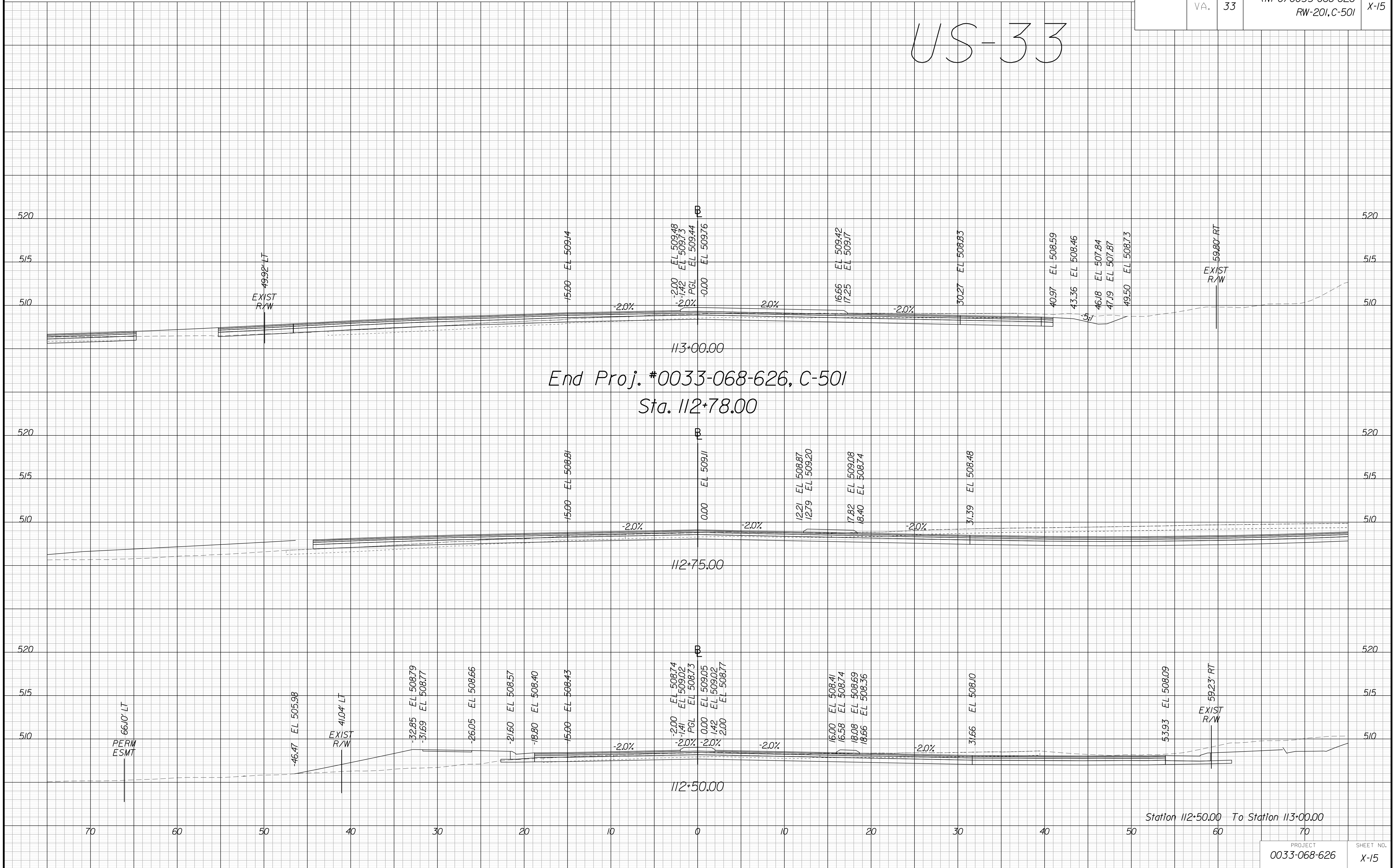
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201, C-501	X-15

US-33



PH PLANS

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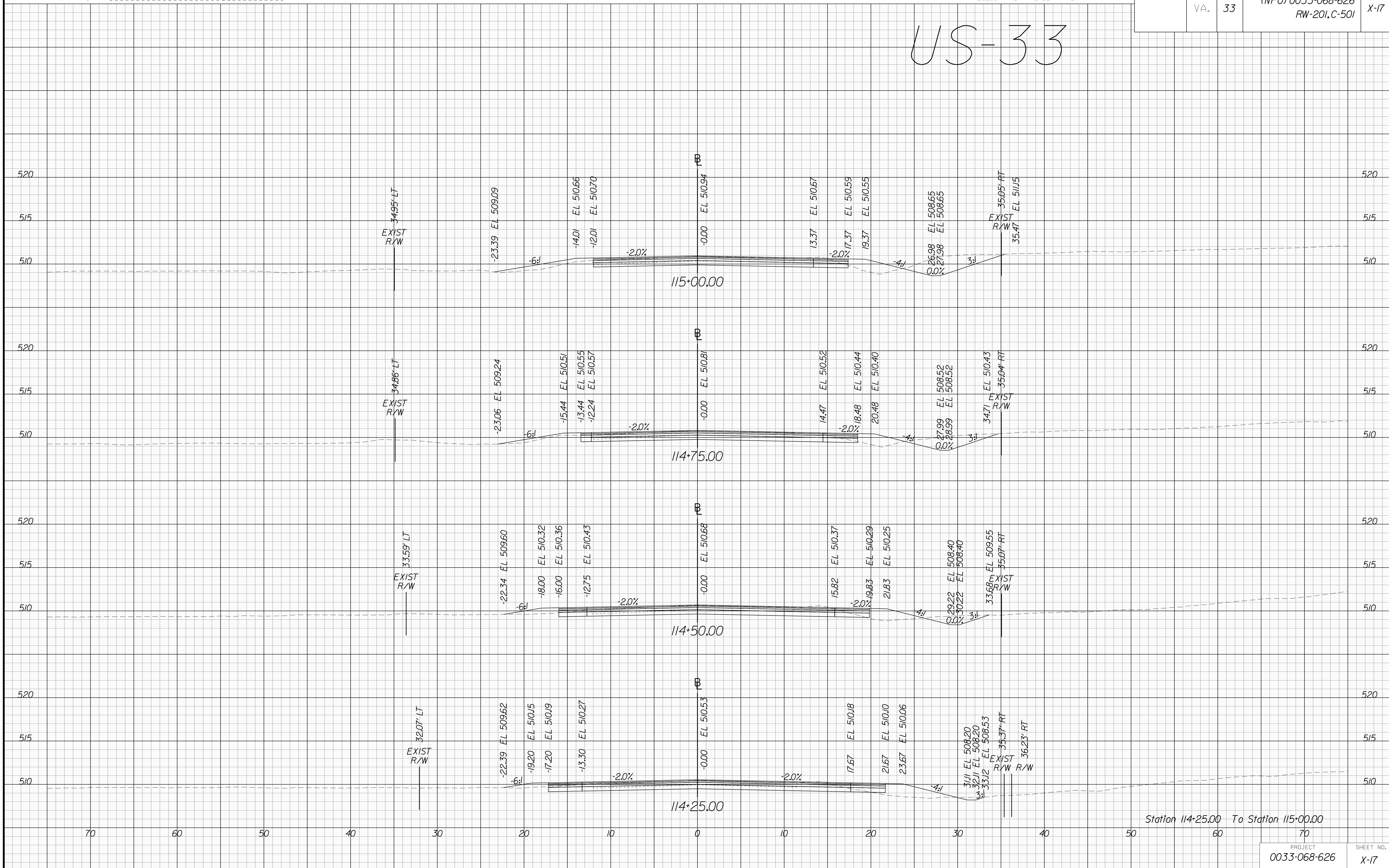
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201,C-501	X-17

US-33



Station 114+25.00 To Station 115+00.00

PROJECT
0033-068-626
SHEET NO.
X-17

PH PLANS

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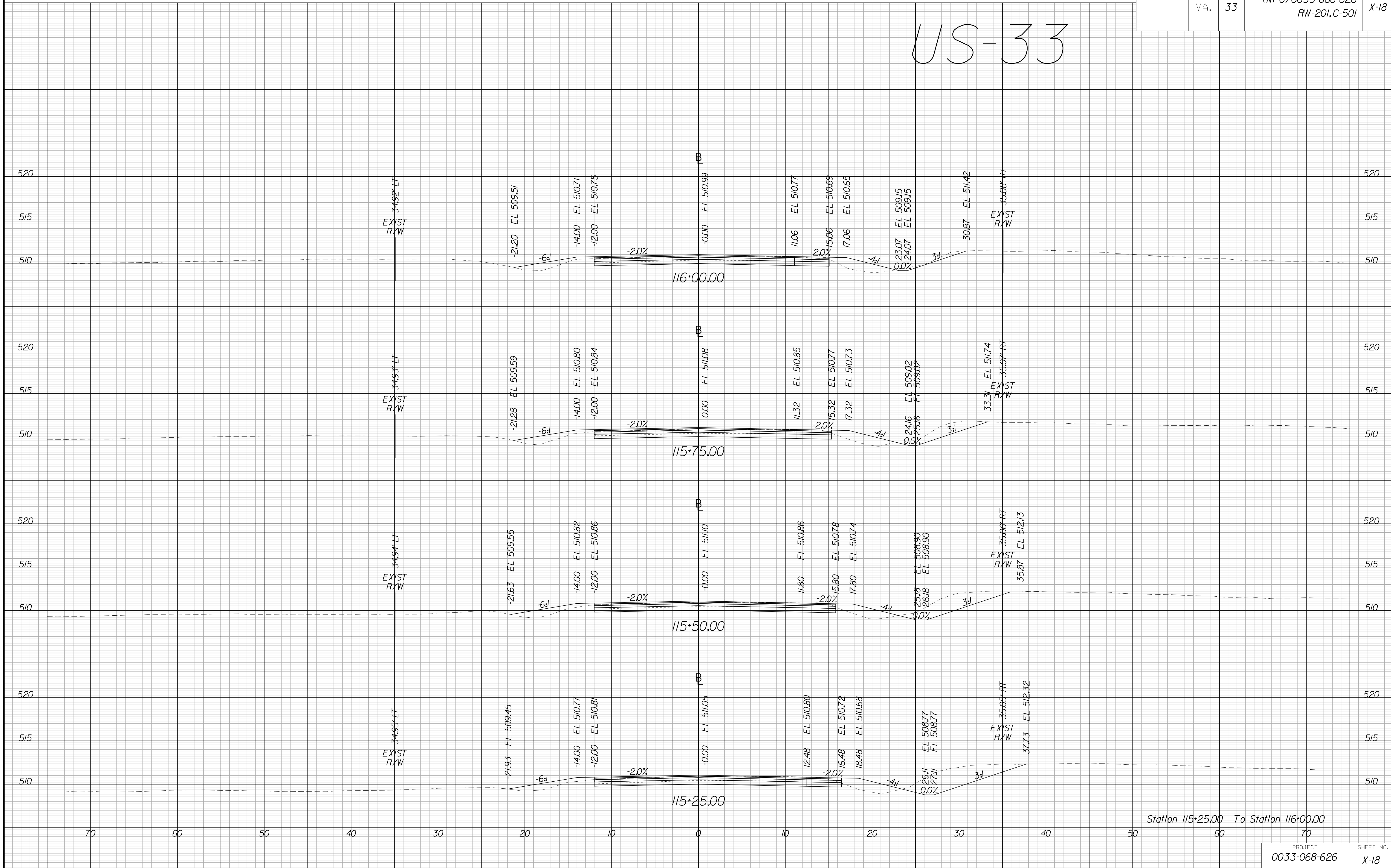
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33	(INFO) 0033-068-626	RW-201, C-501	X-18

US-33



Station 115+25.00 To Station 116+00.00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

PROJECT
0033-068-626
SHEET NO.
X-18

PH PLANS

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SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

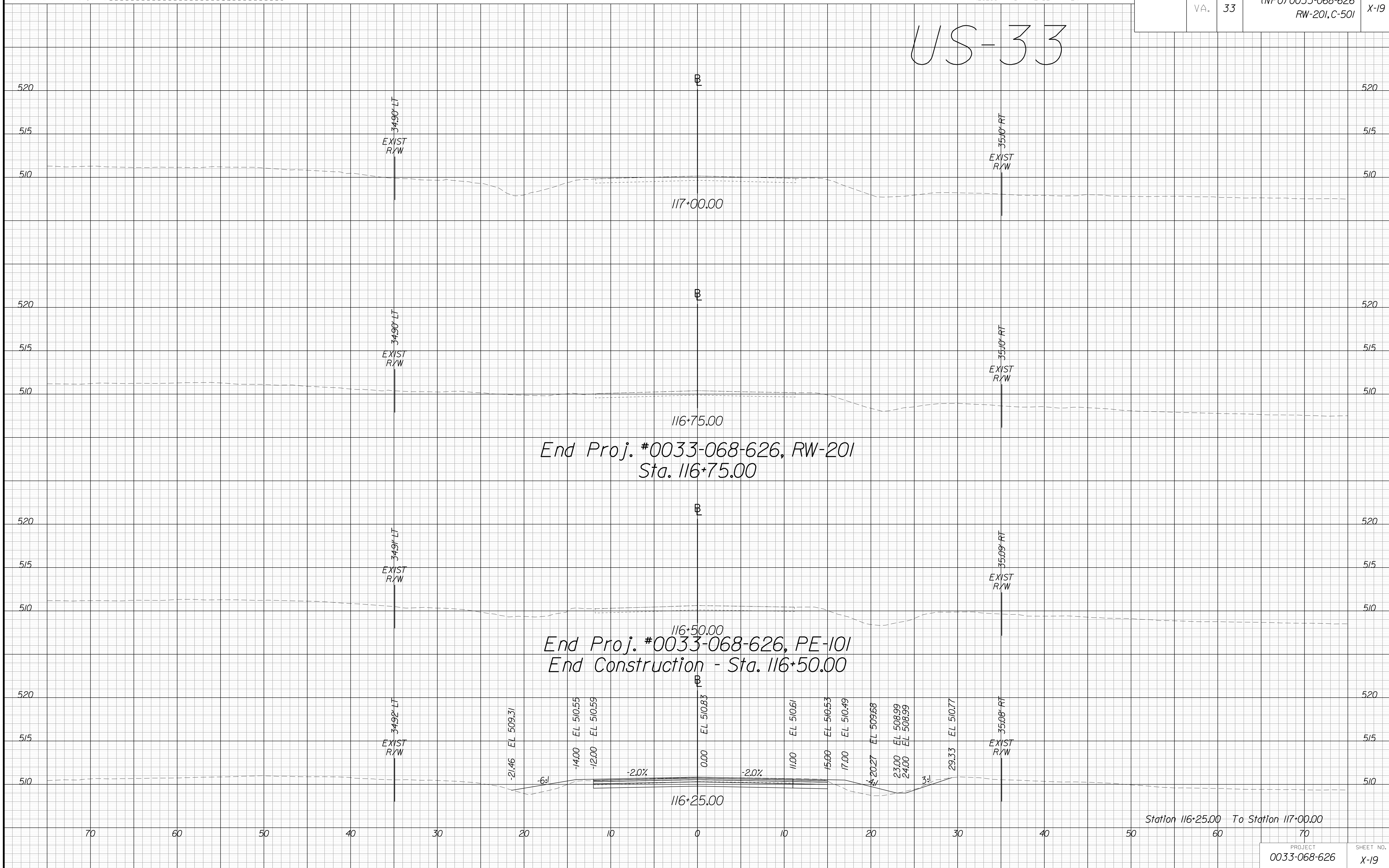
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201, C-501	X-19

US-33



End Proj. #0033-068-626, RW-201
Sta. 116+75.00

End Proj. #0033-068-626, PE-101
End Construction - Sta. 116+50.00

Station 116+25.00 To Station 117+00.00

PROJECT
0033-068-626
SHEET NO.
X-19

PH PLANS

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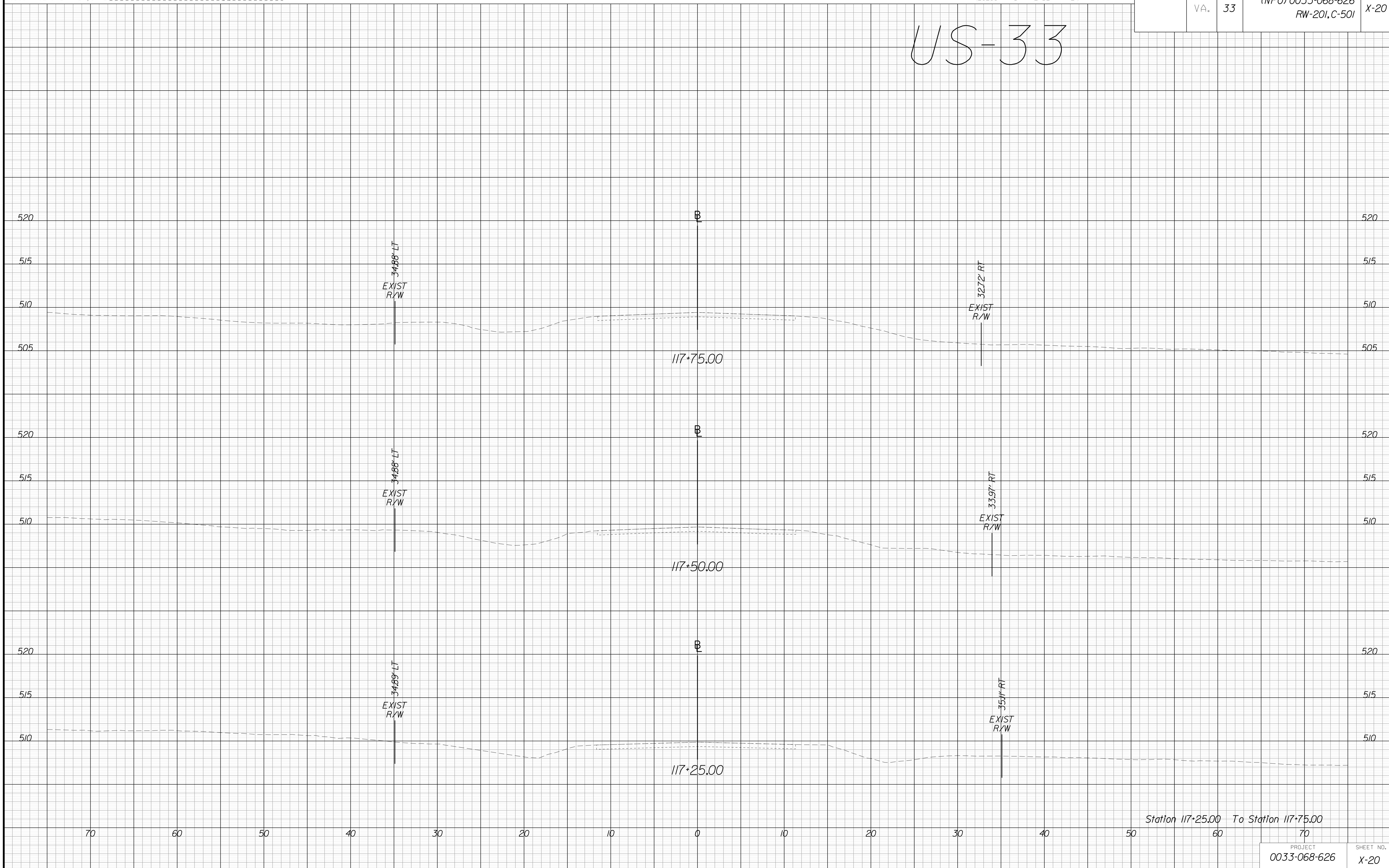
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626	RW-201, C-501	X-20

US-33



Station 117+25.00 To Station 117+75.00

PROJECT 0033-068-626 SHEET NO. X-20

PH PLANS

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SURVEYED BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*
DESIGN BY *Trieu Q. Nguyen, PE (540) 829-7524 (Culpeper District)*
SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

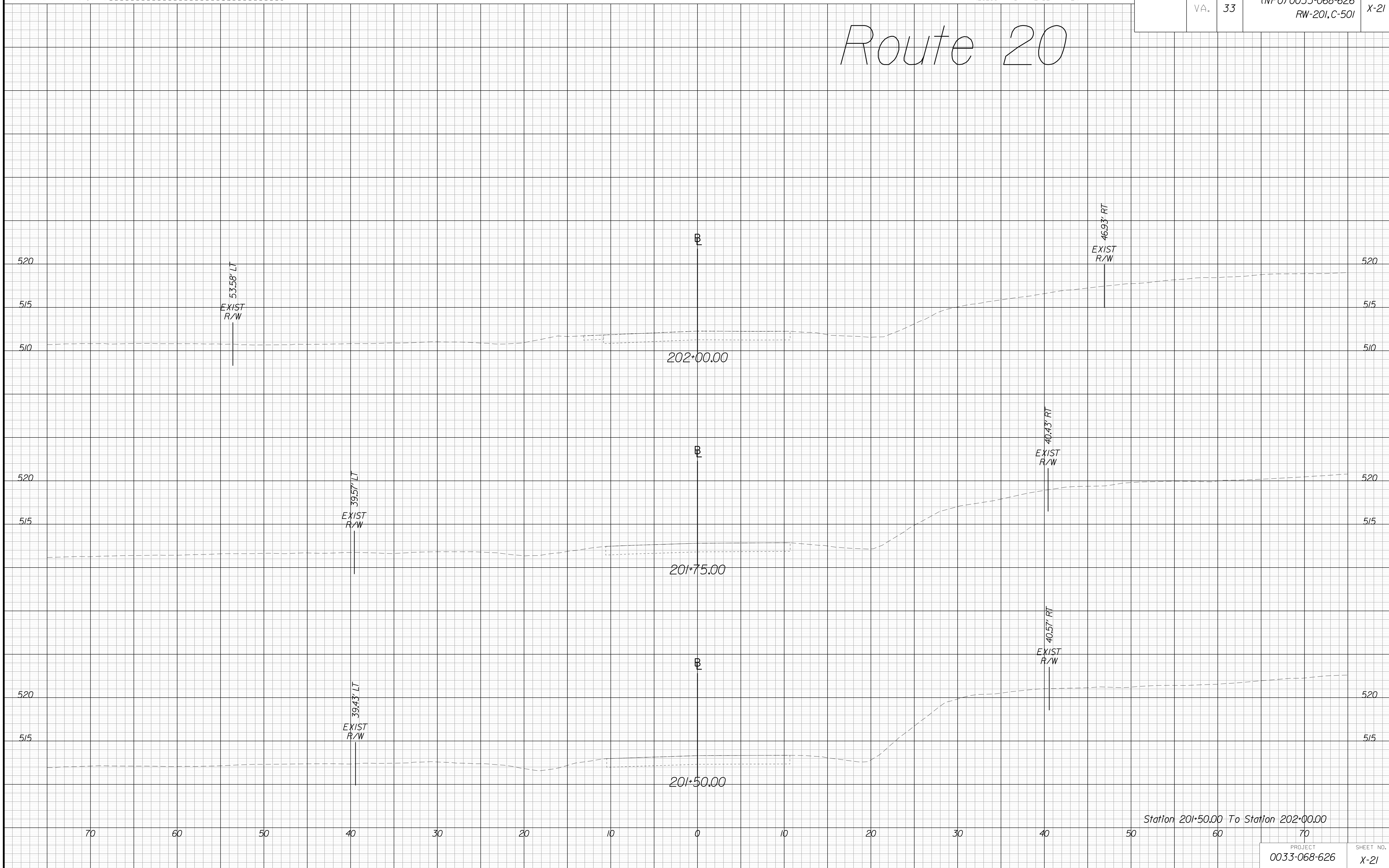
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626 RW-201,C-501	X-21

Route 20



PH PLANS

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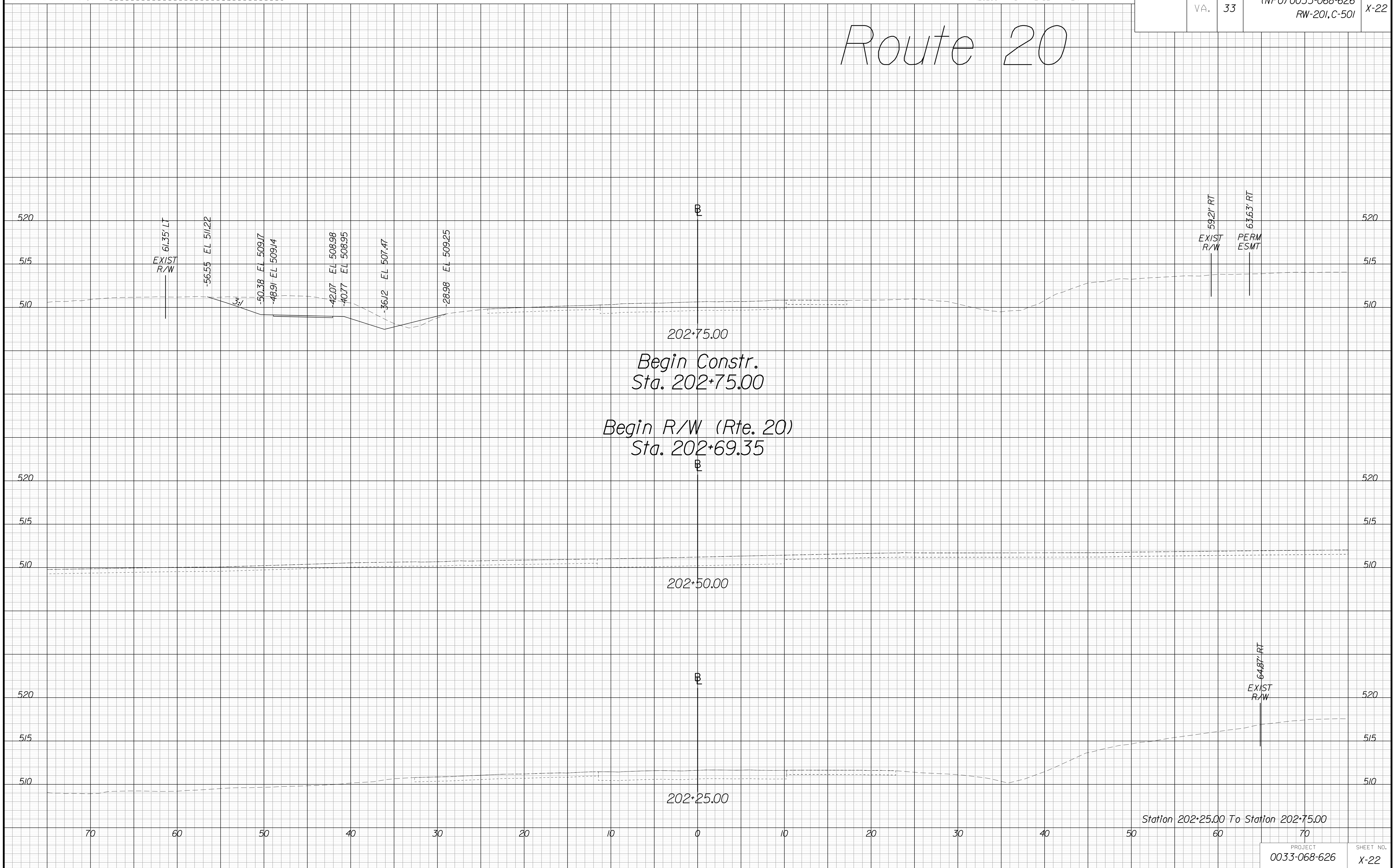
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-22

Route 20



PH PLANS

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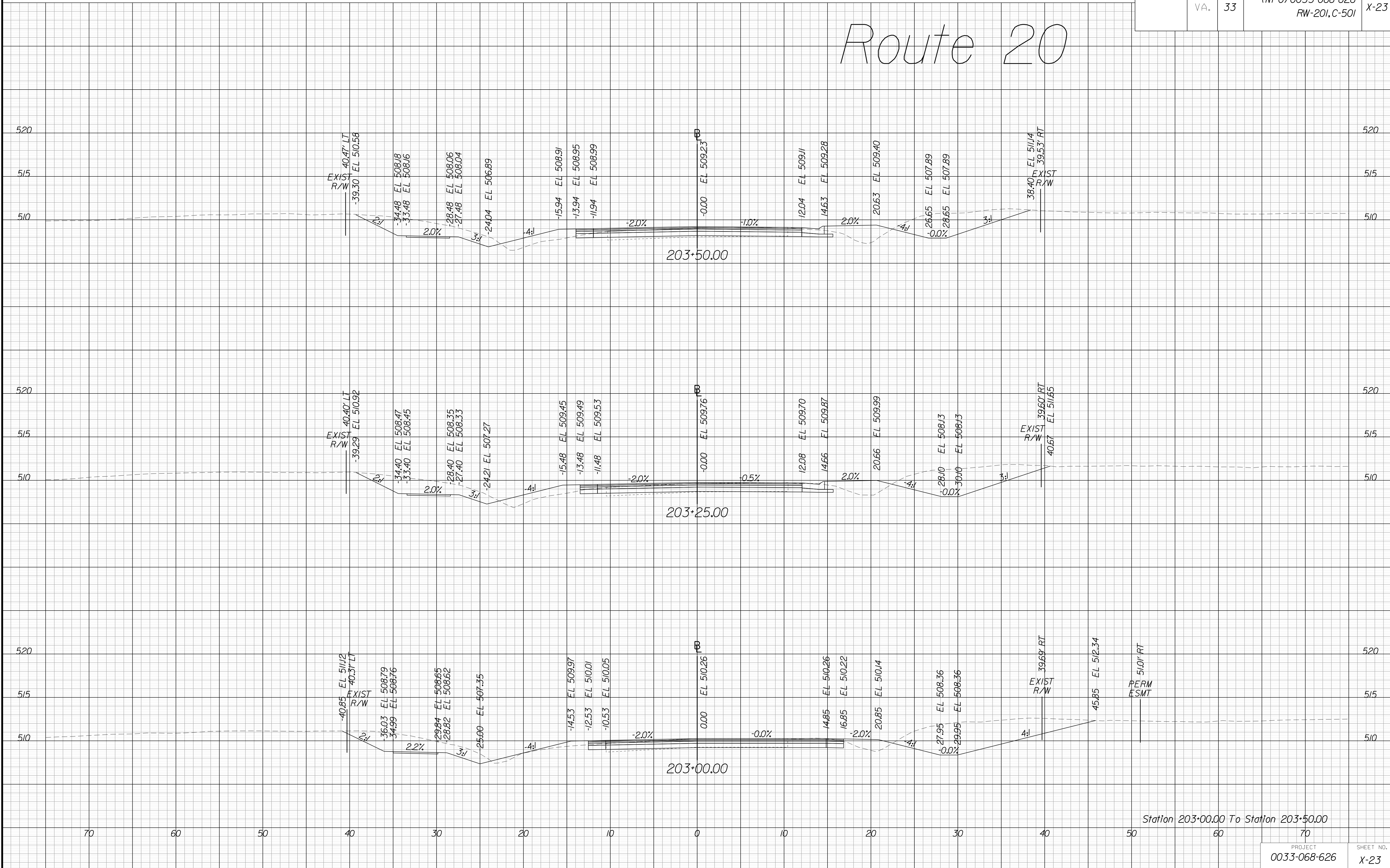
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-23

Route 20



Station 203+00.00 To Station 203+50.00

PH PLANS

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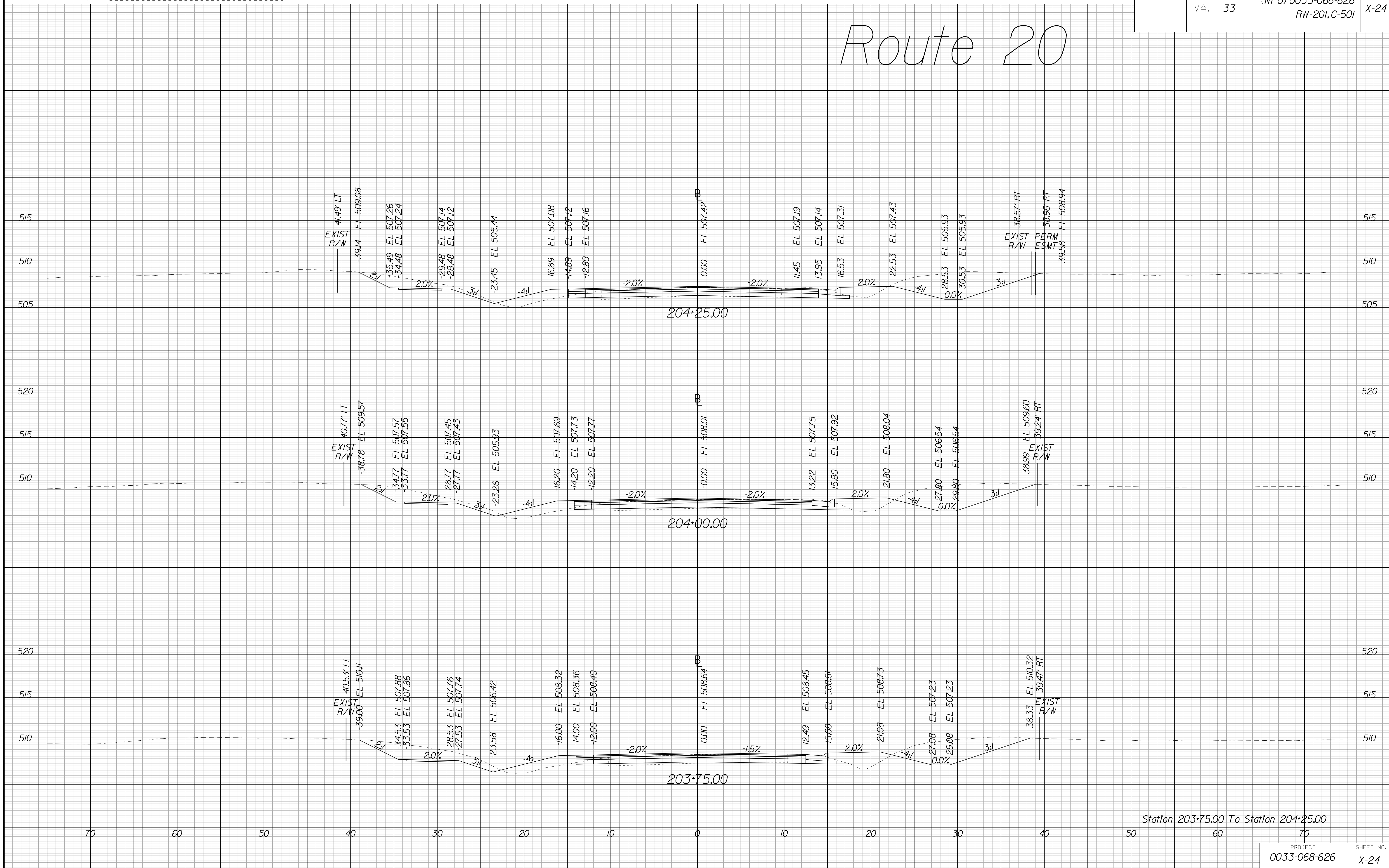
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-24

Route 20



PH PLANS

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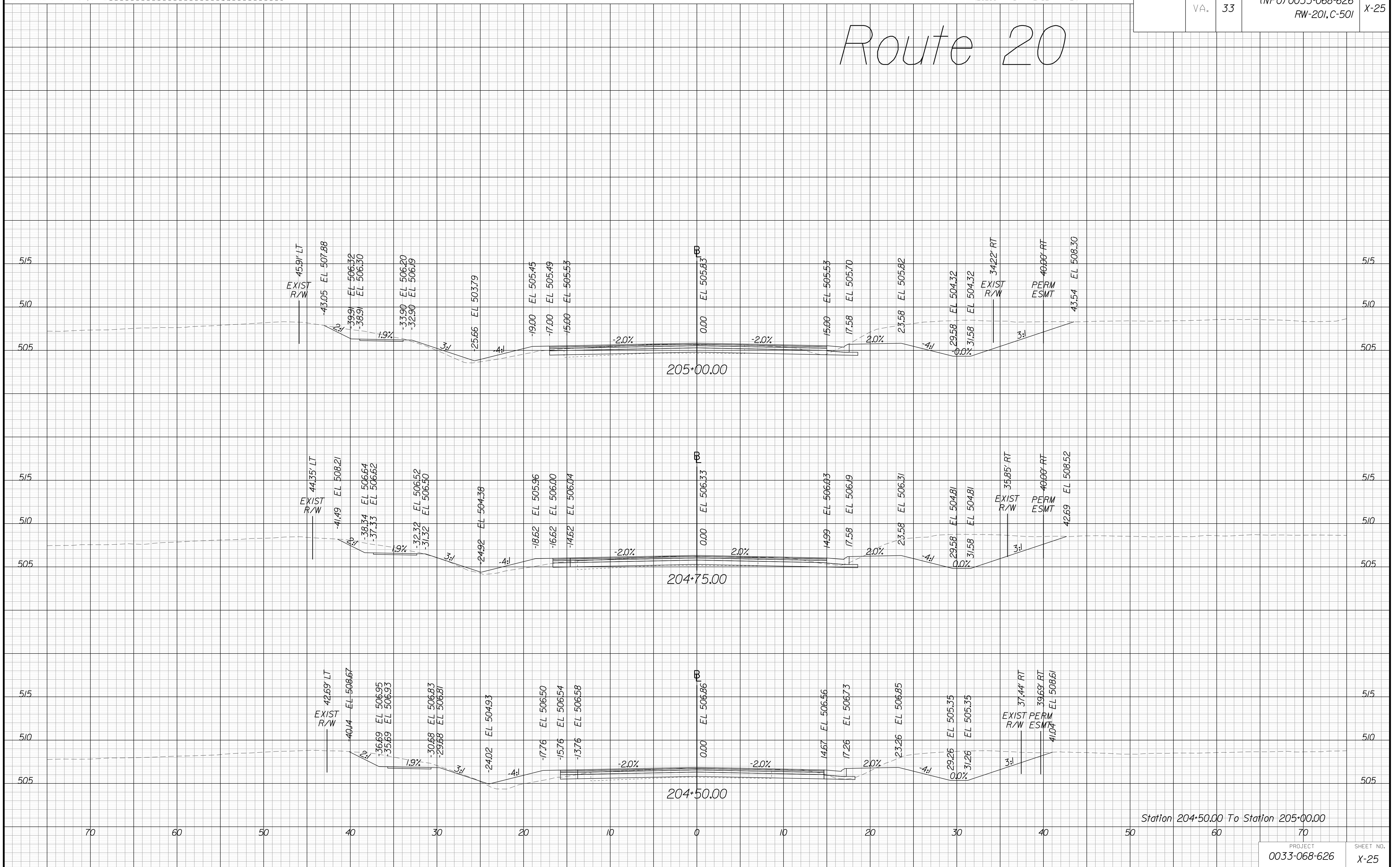
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-25

Route 20



Station 204+50.00 To Station 205+00.00

PH PLANS

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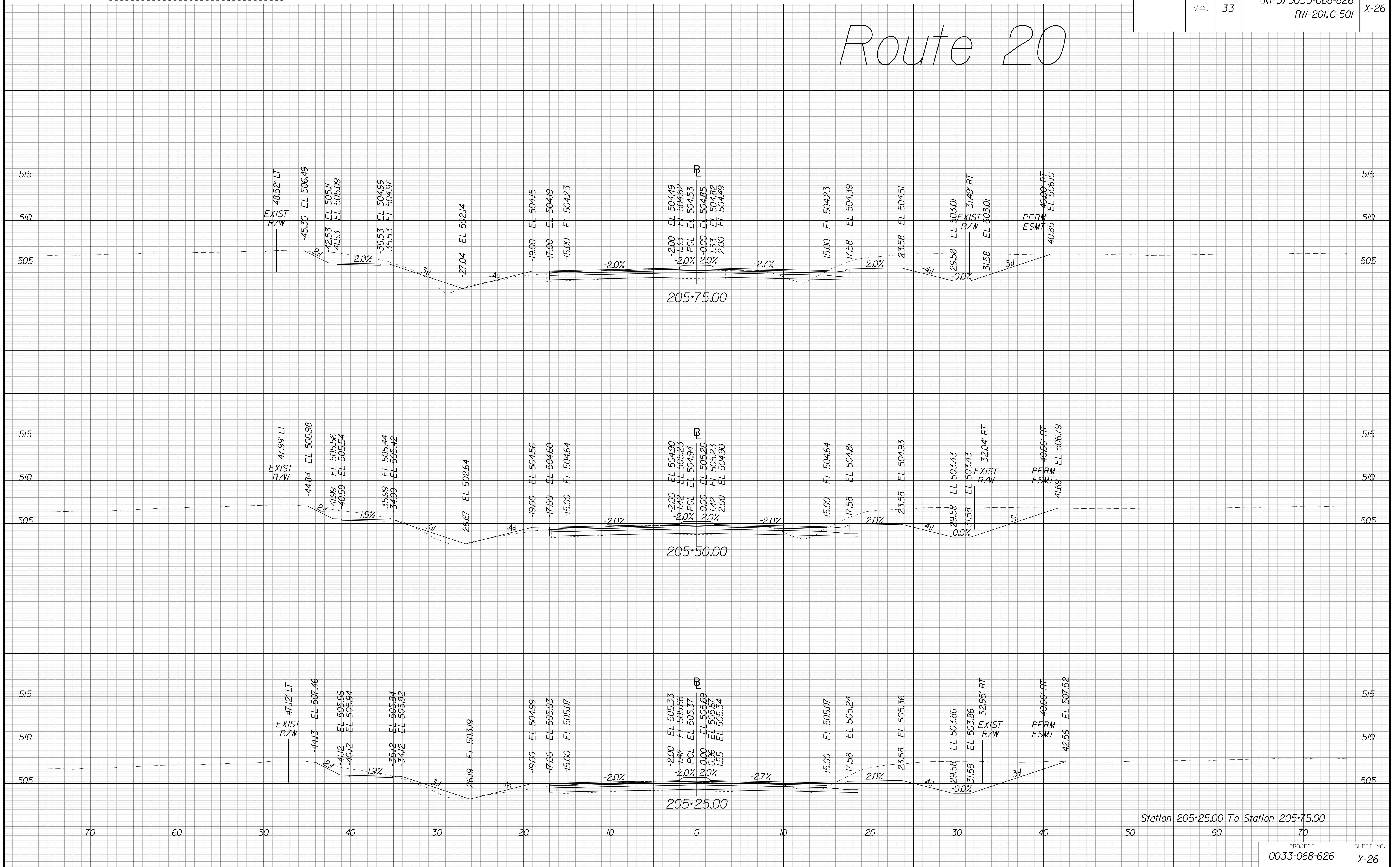
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-26

Route 20



Station 205+25.00 To Station 205+75.00

PH PLANS

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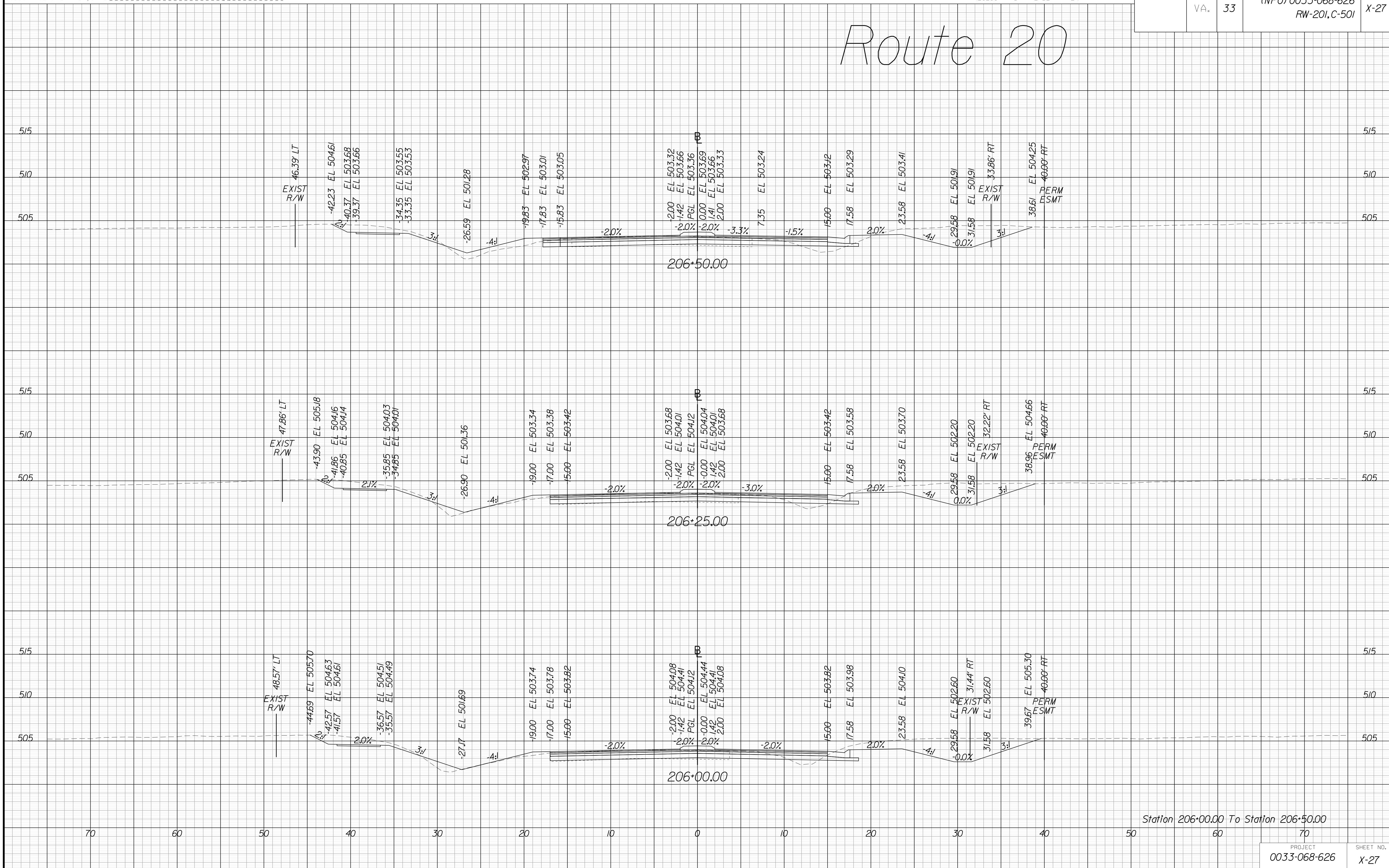
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO)	0033-068-626 RW-201,C-501	X-27

Route 20



Station 206+00.00 To Station 206+50.00

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SUBSURFACE UTILITY BY, DATE *Michael C. Mauro, L.S. (540) 829-7551 (Culpeper District) (2020)*

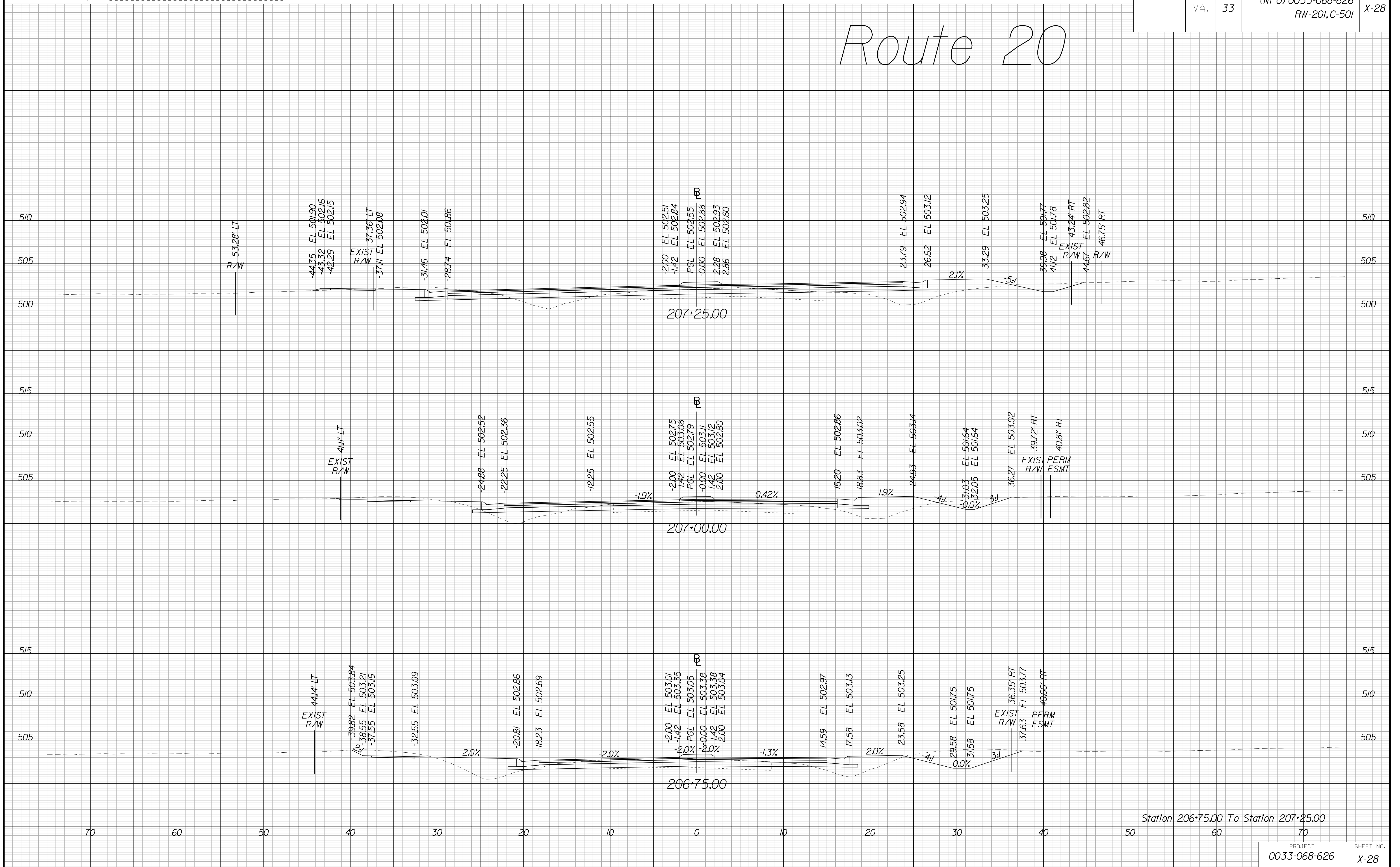
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33		(INFO) 0033-068-626 RW-201,C-501	X-28

Route 20



Station 206+75.00 To Station 207+25.00

PH PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS

PROJECT MANAGER *Justin D. Worfield, PE (540) 829-7599 (Culpeper District)*
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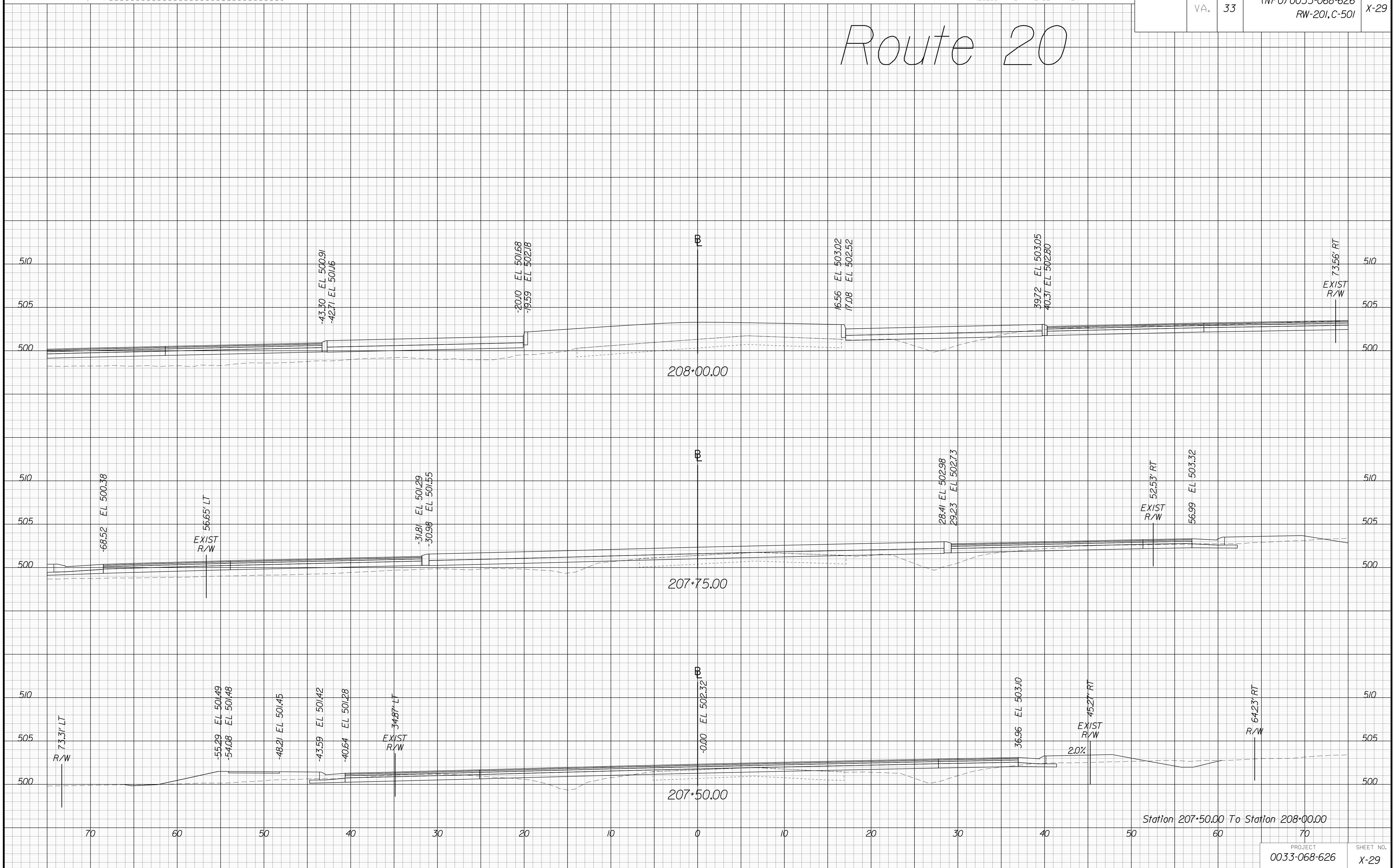
CROSS SECTIONS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-29

Route 20



PH PLANS

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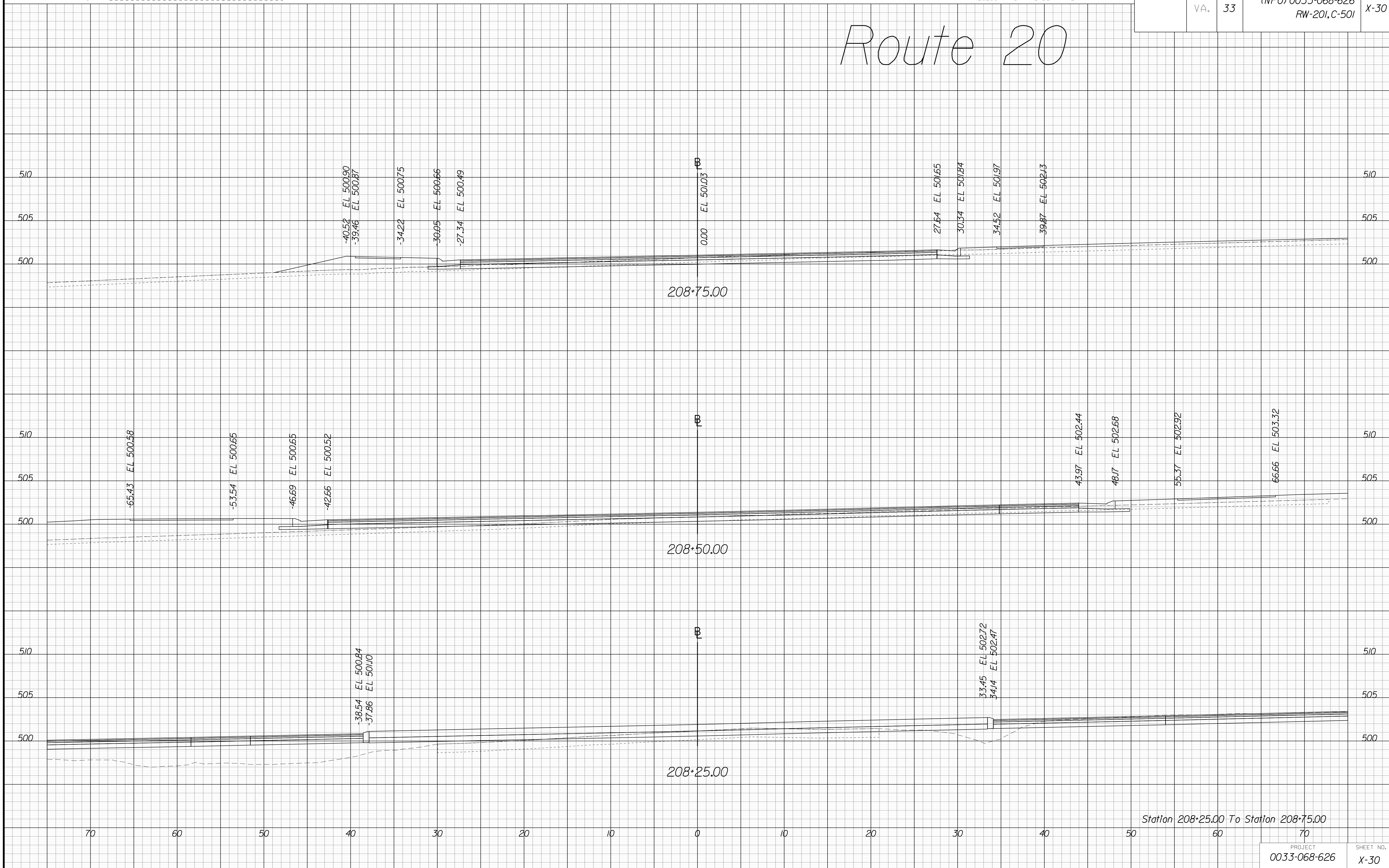
CROSS SECTIONS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626	RW-201,C-501	X-30

Route 20



PH PLANS

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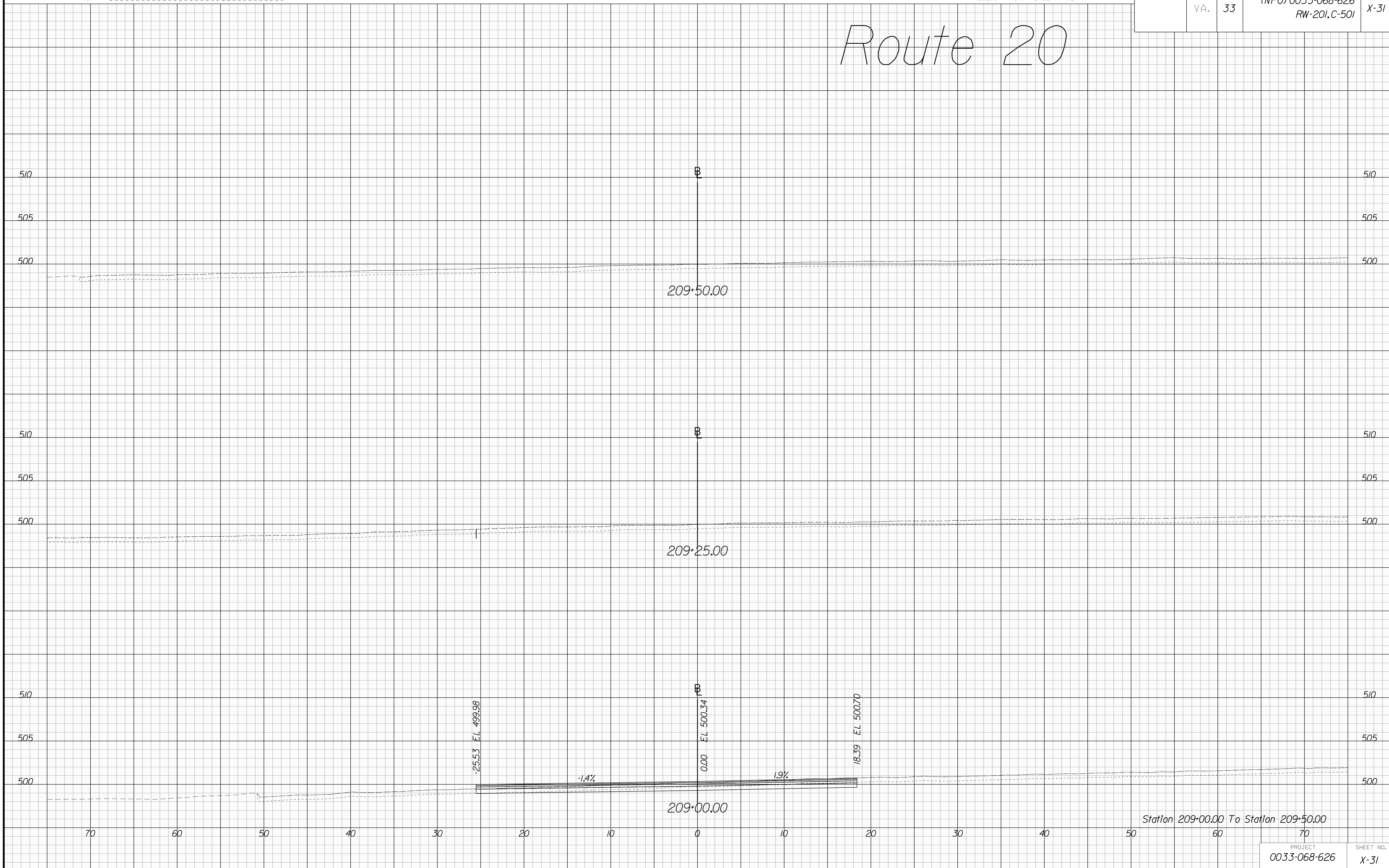
CROSS SECTIONS

SCALE 1 IN. = 5 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.	33	(INFO)	0033-068-626 RW-201, C-501	X-31

Route 20



Station 209+00.00 To Station 209+50.00

PROJECT
0033-068-626
SHEET NO.
X-31

PH PLANS

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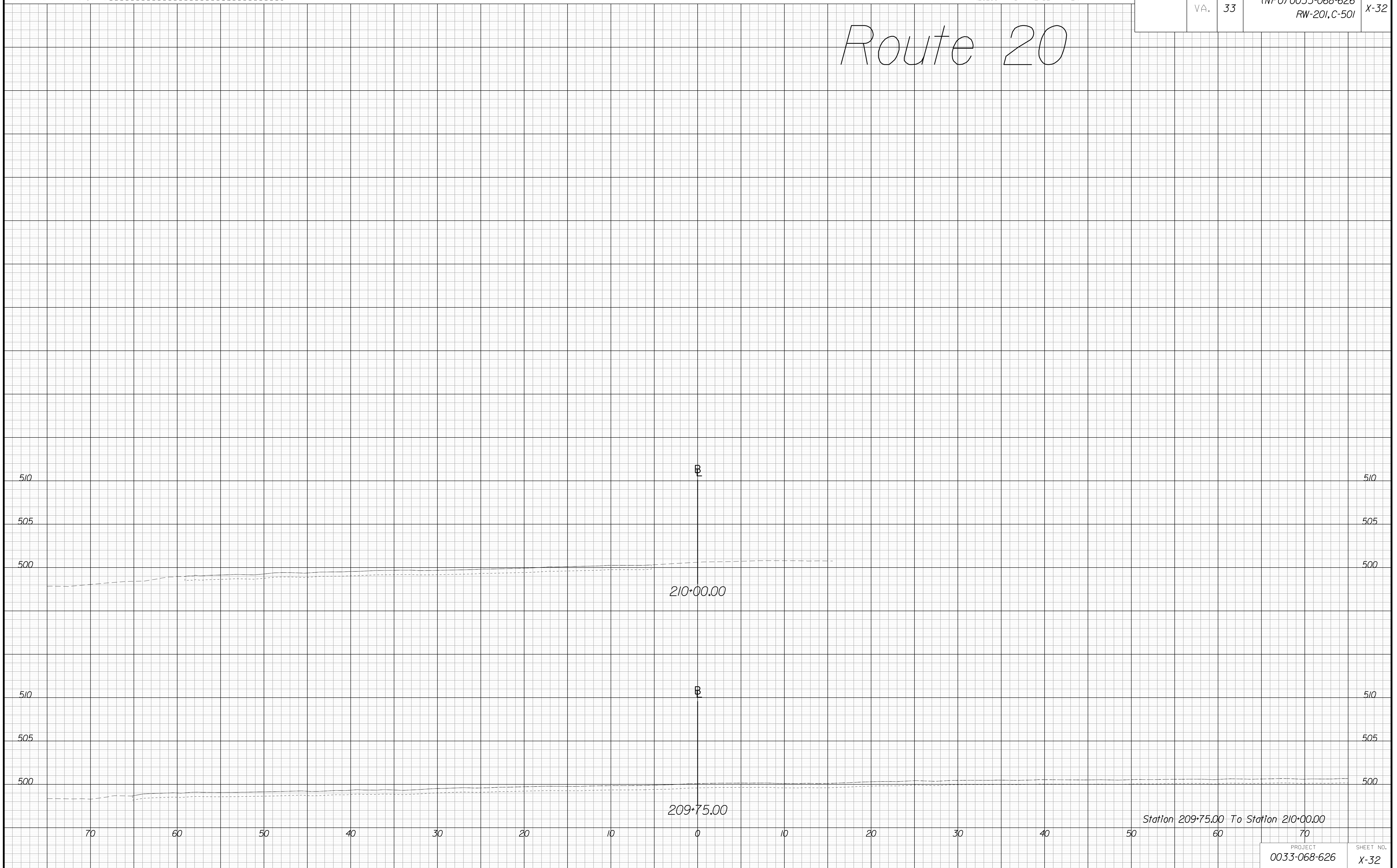
CROSS SECTIONS

SCALE 1 IN. = 5 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO) 0033-068-626	RW-201, C-501	

Route 20



Station 209+75.00 To Station 210+00.00

PROJECT	SHEET NO.
0033-068-626	X-32

PH PLANS

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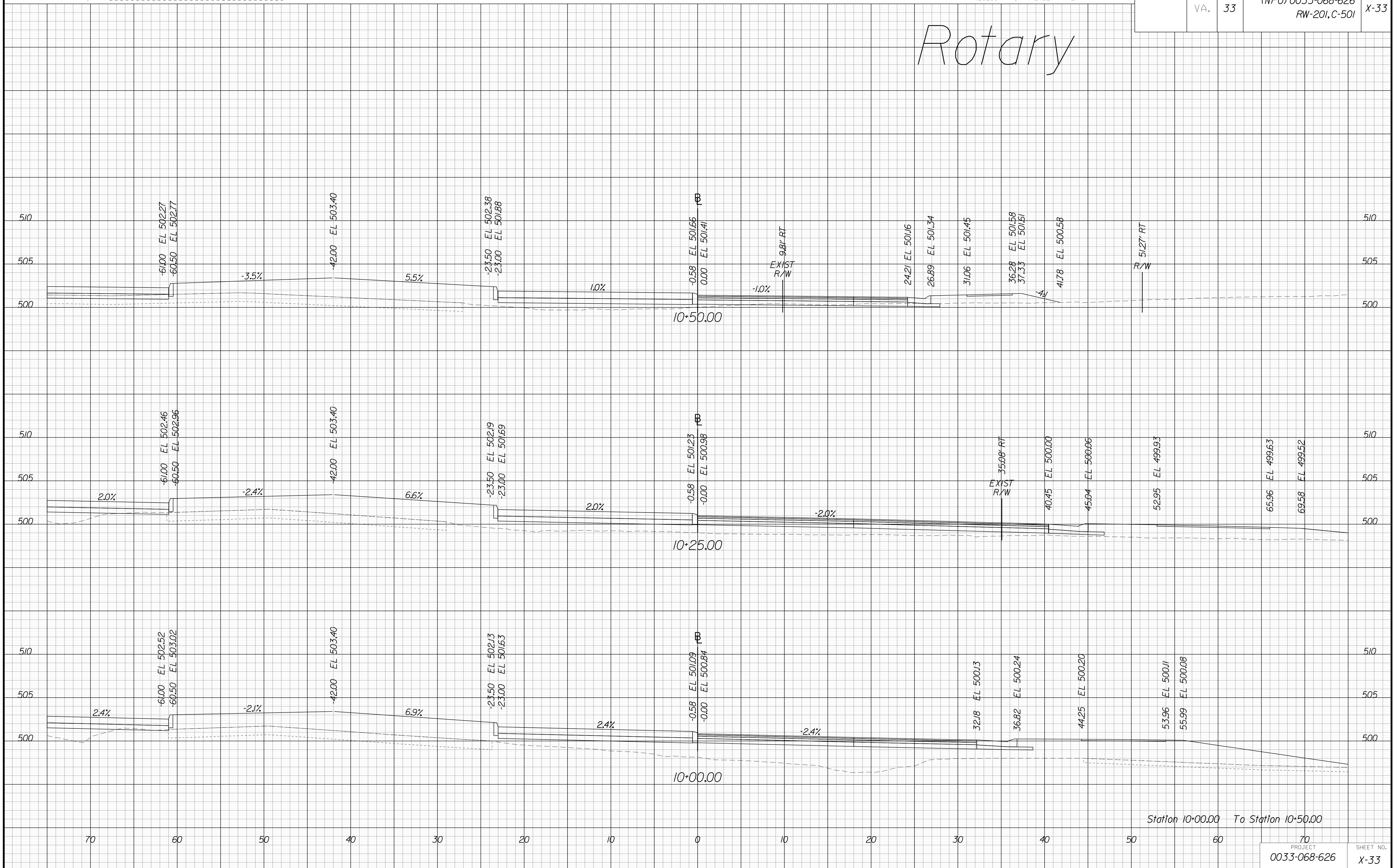
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-33

Rotary



PH PLANS

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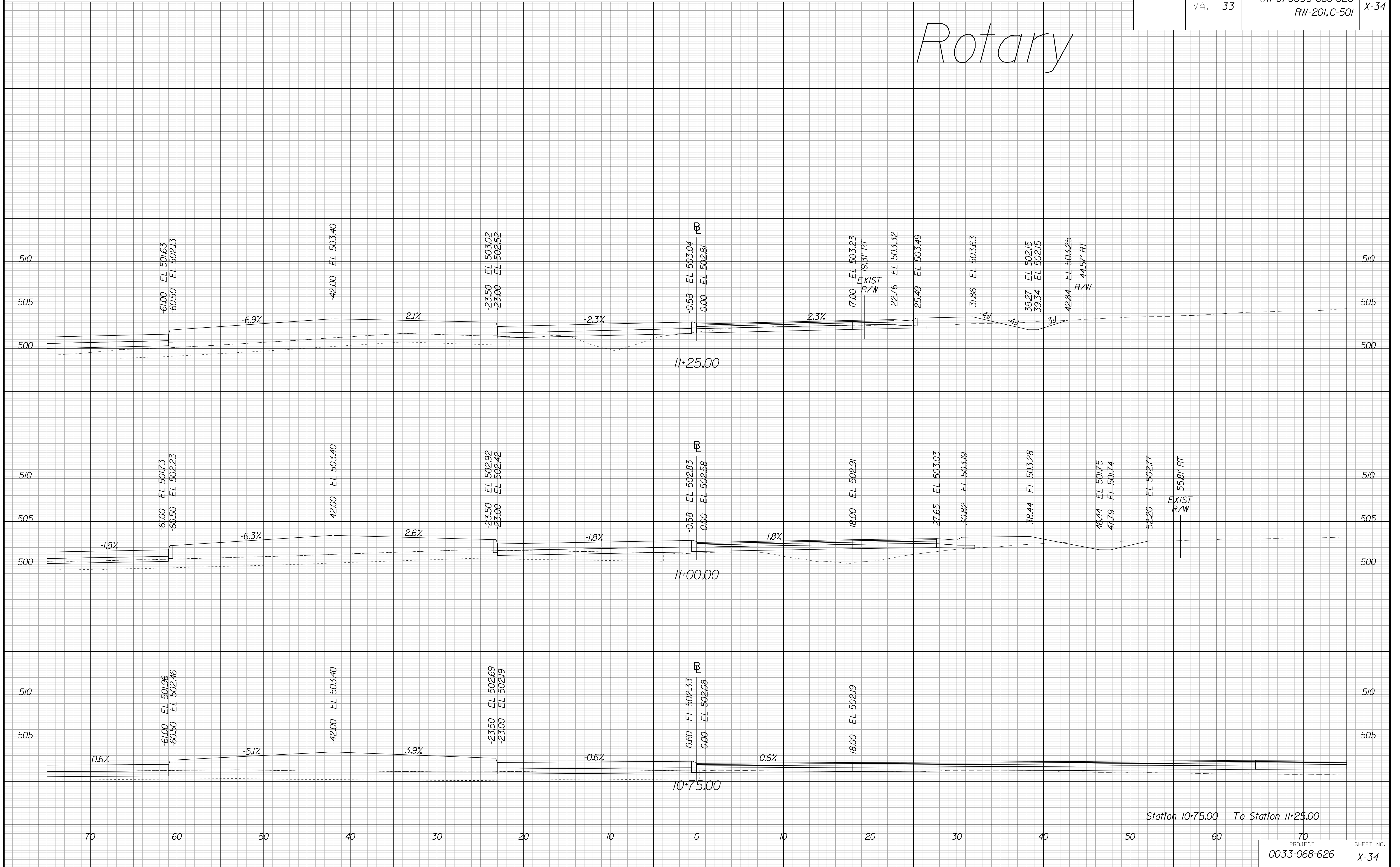
CROSS SECTIONS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-34

Rotary



Station 10+75.00 To Station 11+25.00

PH PLANS

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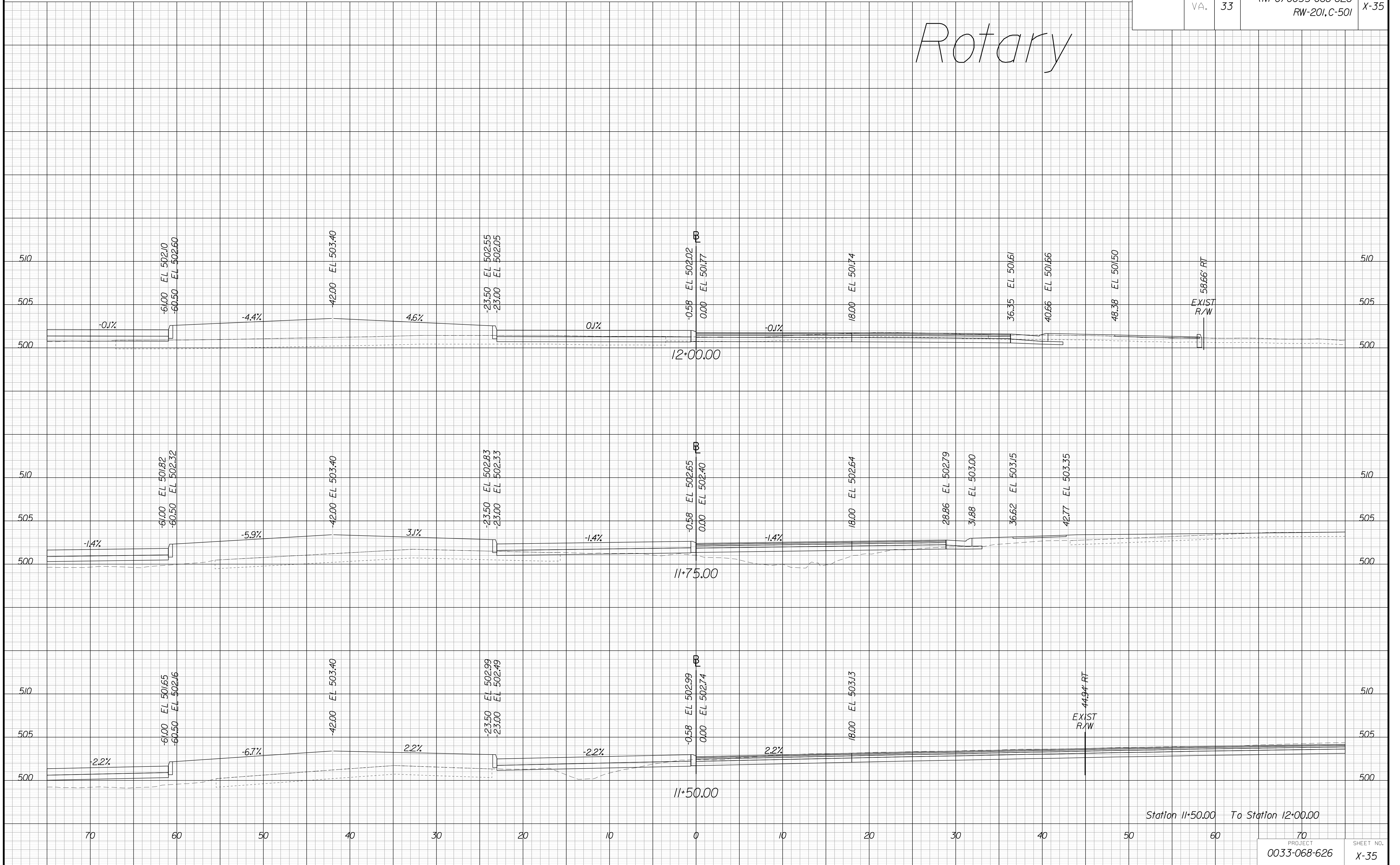
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-35

Rotary



PH PLANS

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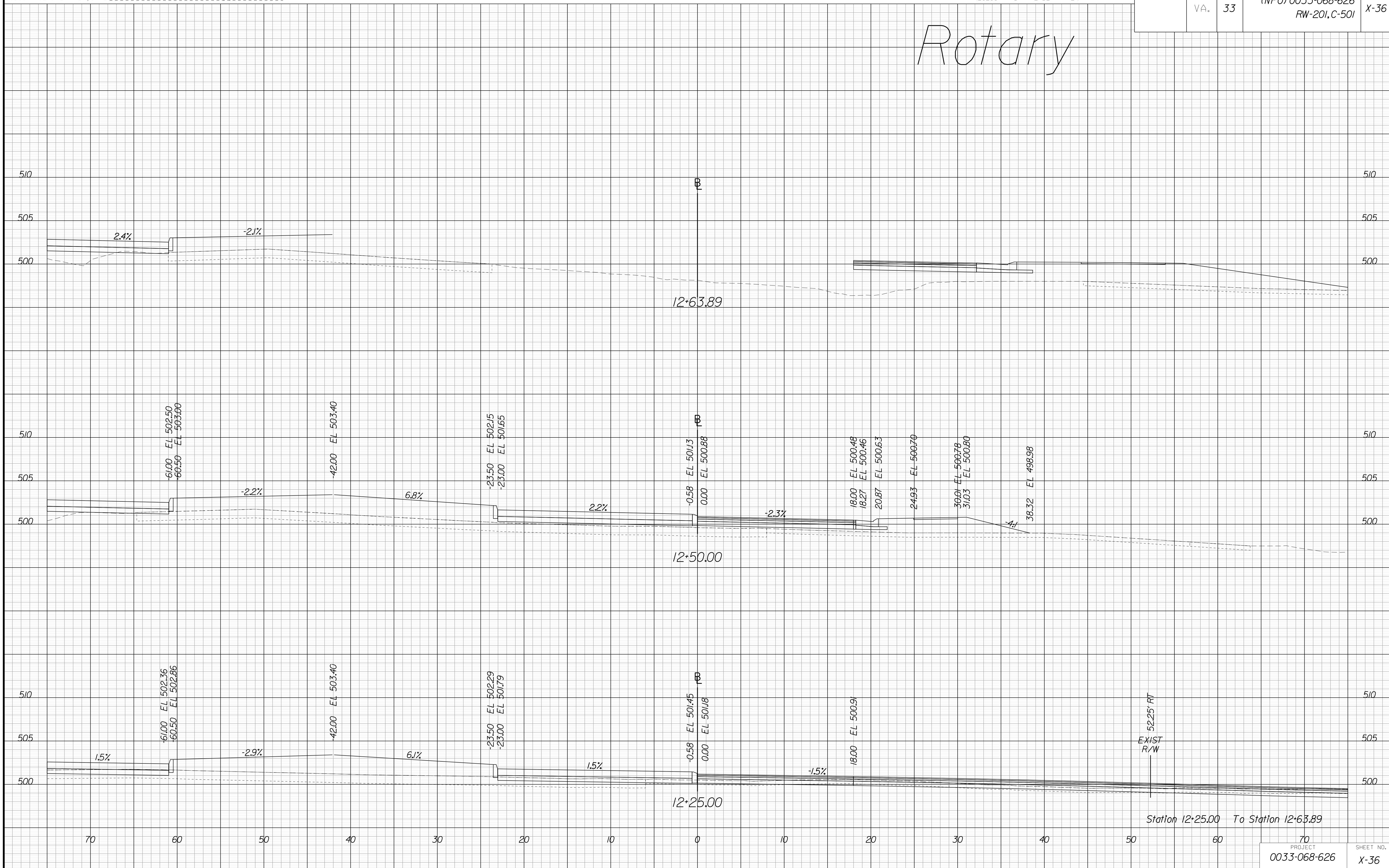
CROSS SECTIONS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201, C-501	X-36

Rotary



PH PLANS

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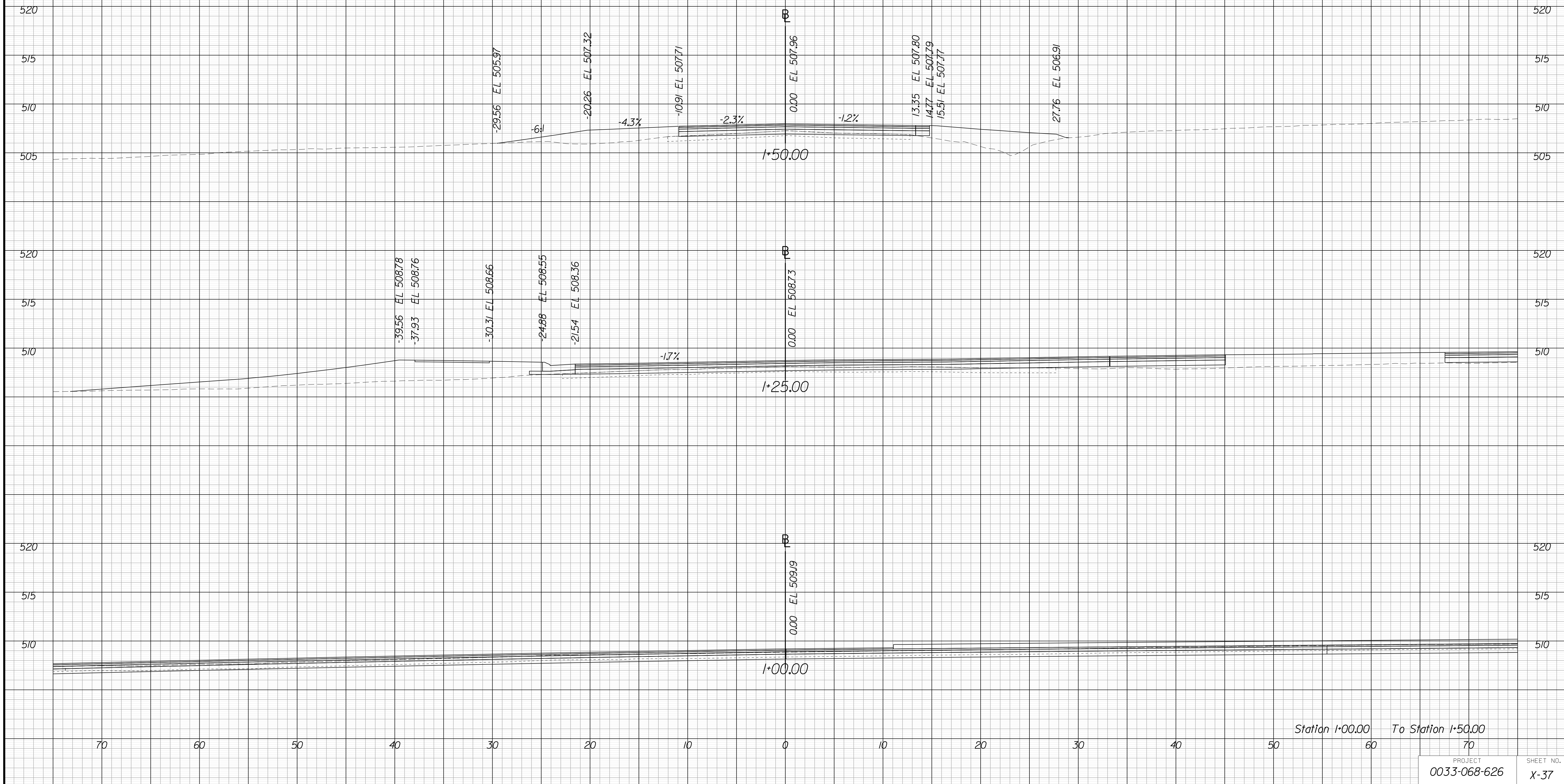
CROSS SECTIONS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201,C-501	X-37

Route 718 N



PH PLANS

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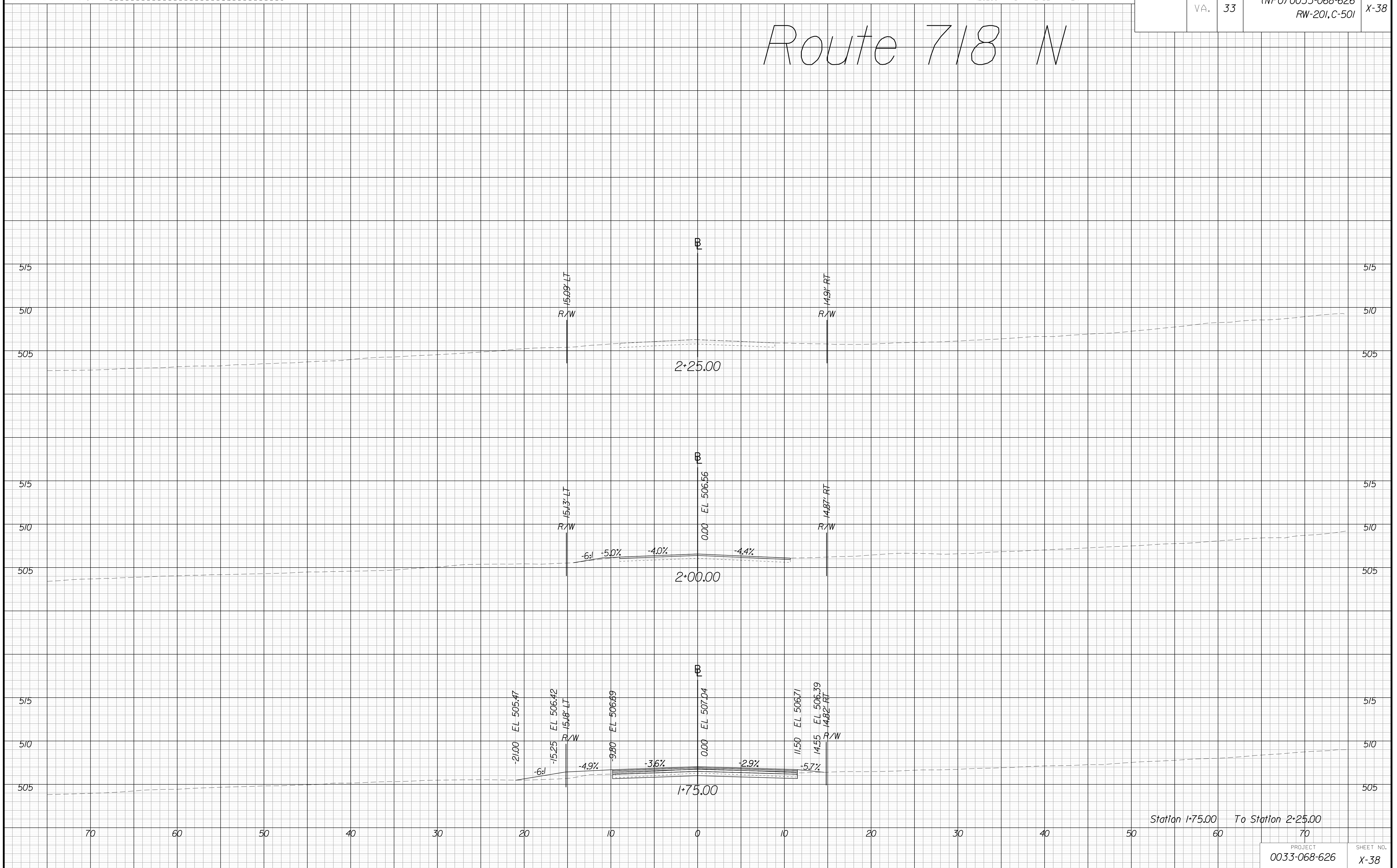
CROSS SECTIONS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201, C-501	X-38

Route 718 N



Station 1+75.00 To Station 2+25.00

PH PLANS

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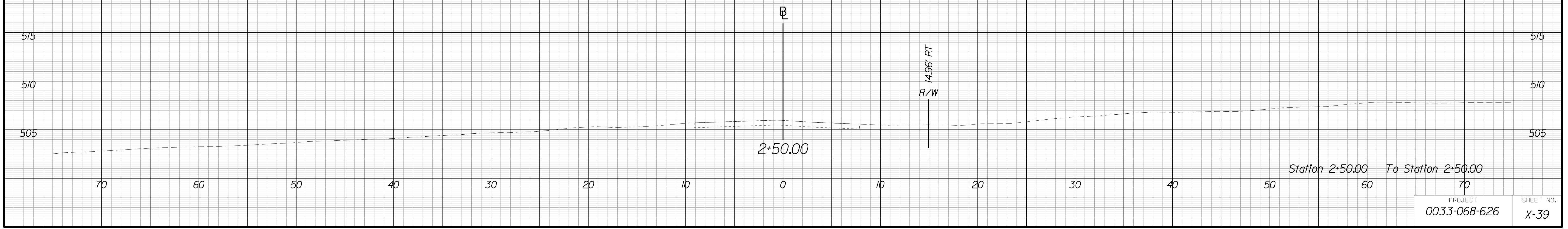
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	STATE	PROJECT	SHEET NO.
	VA.	ROUTE 33		

Route 718 N



PH PLANS

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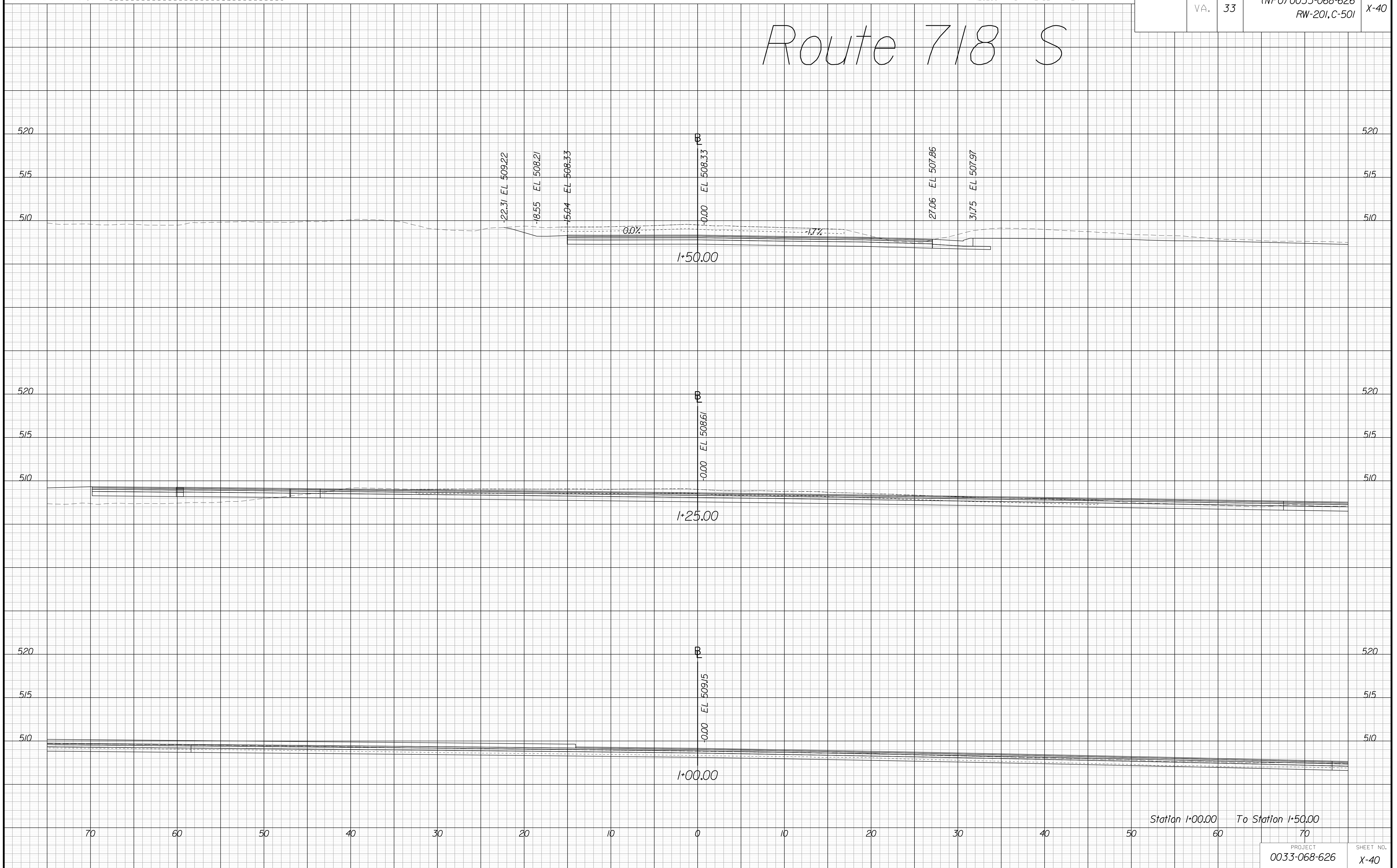
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201, C-501	X-40

Route 718 S



PH PLANS

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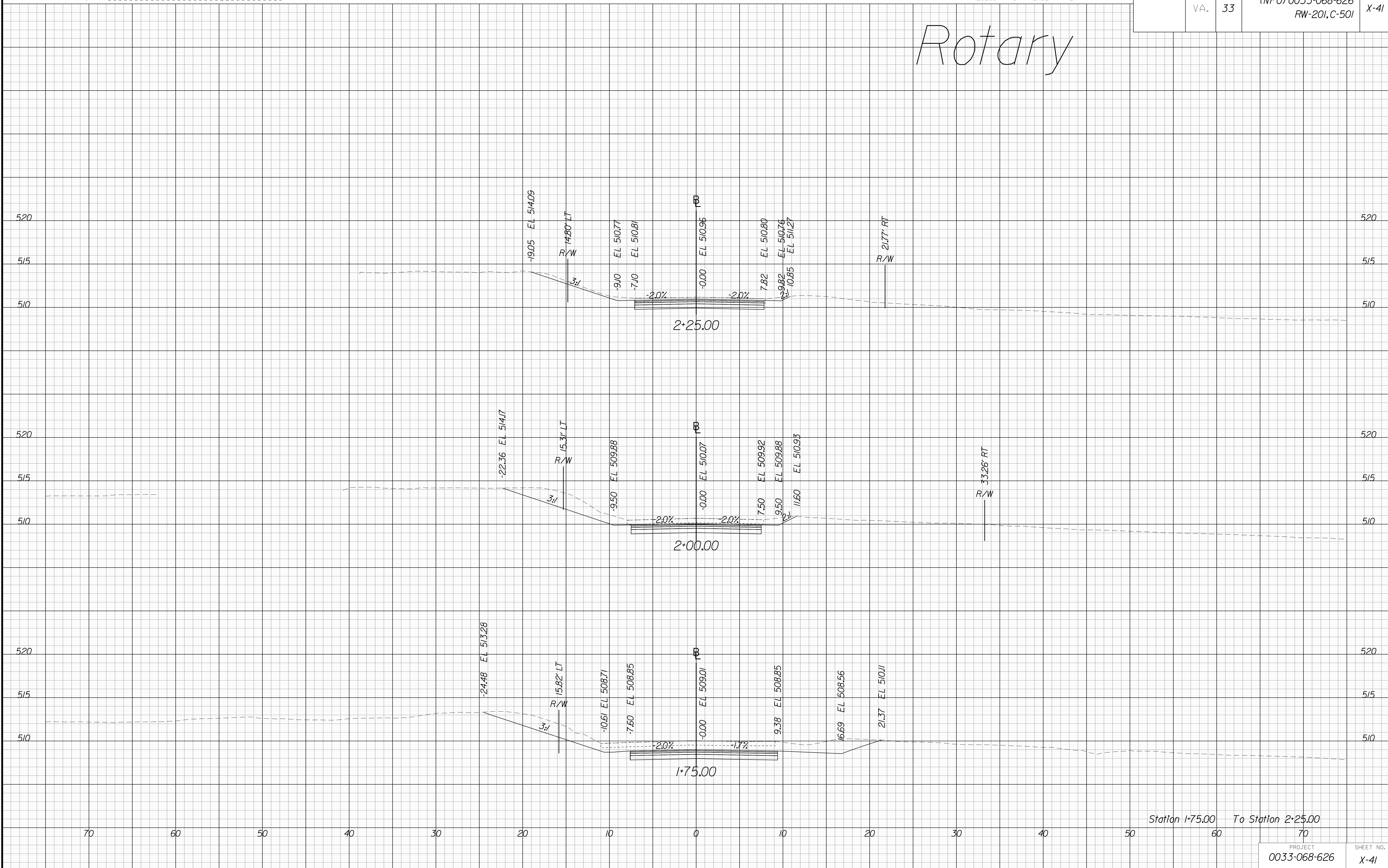
CROSS SECTIONS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33		(INFO) 0033-068-626 RW-201, C-501	X-41

Rotary



Station 1+75.00 To Station 2+25.00

PROJECT 0033-068-626 SHEET NO. X-41

PH PLANS

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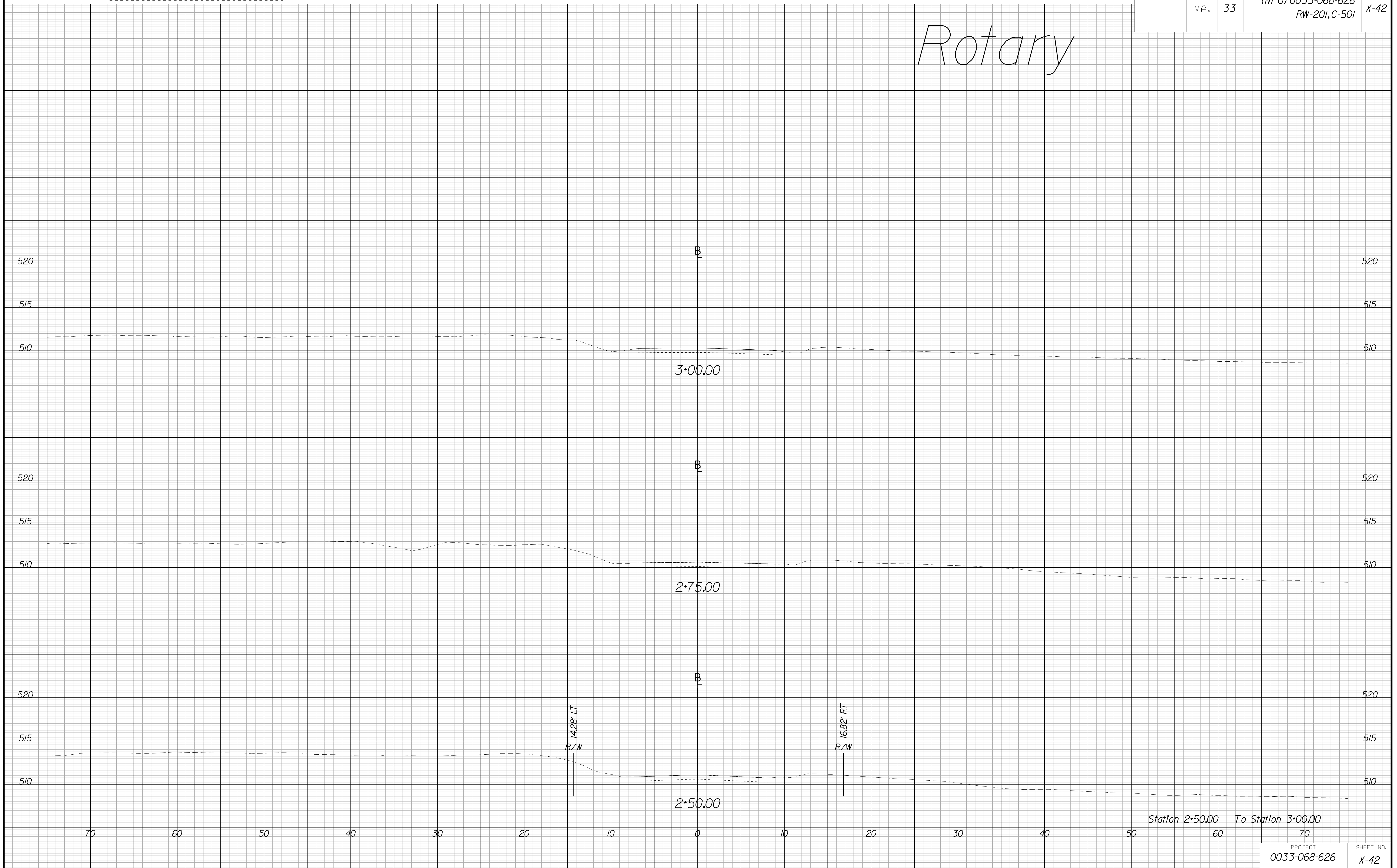
CROSS SECTIONS

SCALE 1 IN. = 5 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	33	(INFO)	0033-068-626 RW-201, C-501	X-42

Rotary



Station 2+50.00 To Station 3+00.00

PROJECT
0033-068-626
SHEET NO.
X-42

PH PLANS

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