PUBLIC HEARING PLANS

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER James Jones 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346, 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE N/A

FOR INDEX OF SHEETS SEE SHEET 1A

FHWA 534 DATA 11103

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	NHPP-081-1( ) (SEE TABULATION BELOW FOR SECTION NUMBERS)	81	F0 0081-086-830 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OPENROADS / GEOPAK)
OPENROADS / GEOPAK Computer Identification No. 116157

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

SMYTH COUNTY
FROM: MILE MARK 39.367
TO: MILE MARK 40.963

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
RURAL INTERSTATE SYSTEM - GS-INT - ROLLING - 75 MPH DESIGN	
	Fr: MILE MARK 39.367 To: MILE MARK 40.963
ADT 2018	16,656
ADT 2045	21,749
DHV	1,299
D (%) (design hour)	
T (%) (design hour)	17%
V (MPH)	See Plan and Profile Sheets for Horizontal and Vertical Curve Design Speed

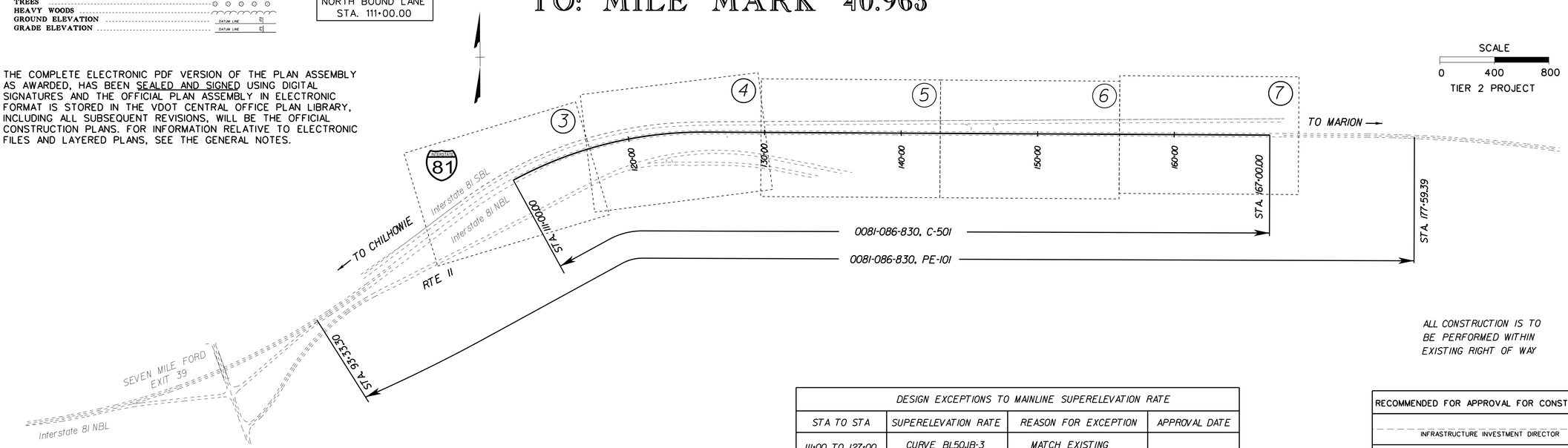
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

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

DESCRIPTION
REFERENCE
MM 39.702
NORTH BOUND LANE
STA. 111+00.00

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.



ALL CONSTRUCTION IS TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY

DESIGN EXCEPTIONS TO MAINLINE SUPERELEVATION RATE			
STA TO STA	SUPERELEVATION RATE	REASON FOR EXCEPTION	APPROVAL DATE
111+00 TO 127+00	CURVE BL50JB-3 e = 5.6 %	MATCH EXISTING SUPERELEVATION RATE	

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-5.11R, EXCEPT WHERE OTHERWISE NOTED.

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

Smyth County Population 32,208 (2010 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES FEET	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
0081-086-830	PE-101	NHPP-081-1(365)		116157		8426.09	1.596	8426.09	1.596		PREL. ENGR	From: MILE MARK 39.367
												To: MILE MARK 40.963
	C-501	***	1000	116157		5,600.00	1.061	5,600.00	1.061		CONST.	From: MILE MARK 39.702
												To: MILE MARK 40.763

Project Lengths are based on I-81 NBL Construction Baseline.

REVISED

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION
INFRASTRUCTURE INVESTMENT DIRECTOR
STATE LOCATION AND DESIGN ENGINEER
CHIEF FINANCIAL OFFICER
STATE STRUCTURE AND BRIDGE ENGINEER

APPROVED FOR CONSTRUCTION
CHIEF ENGINEER

APPROVED
DIVISION ADMINISTRATOR
FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPARTMENT OF TRANSPORTATION

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PUBLIC HEARING

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	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 Location & Design Bristol, Virginia HYDRAULIC ENGINEER	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

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.

REFERENCES
PROFILE 3A

BEGIN PROJECT 0081-086-830, C-501
END TRANSITION
STATION 111+00.00

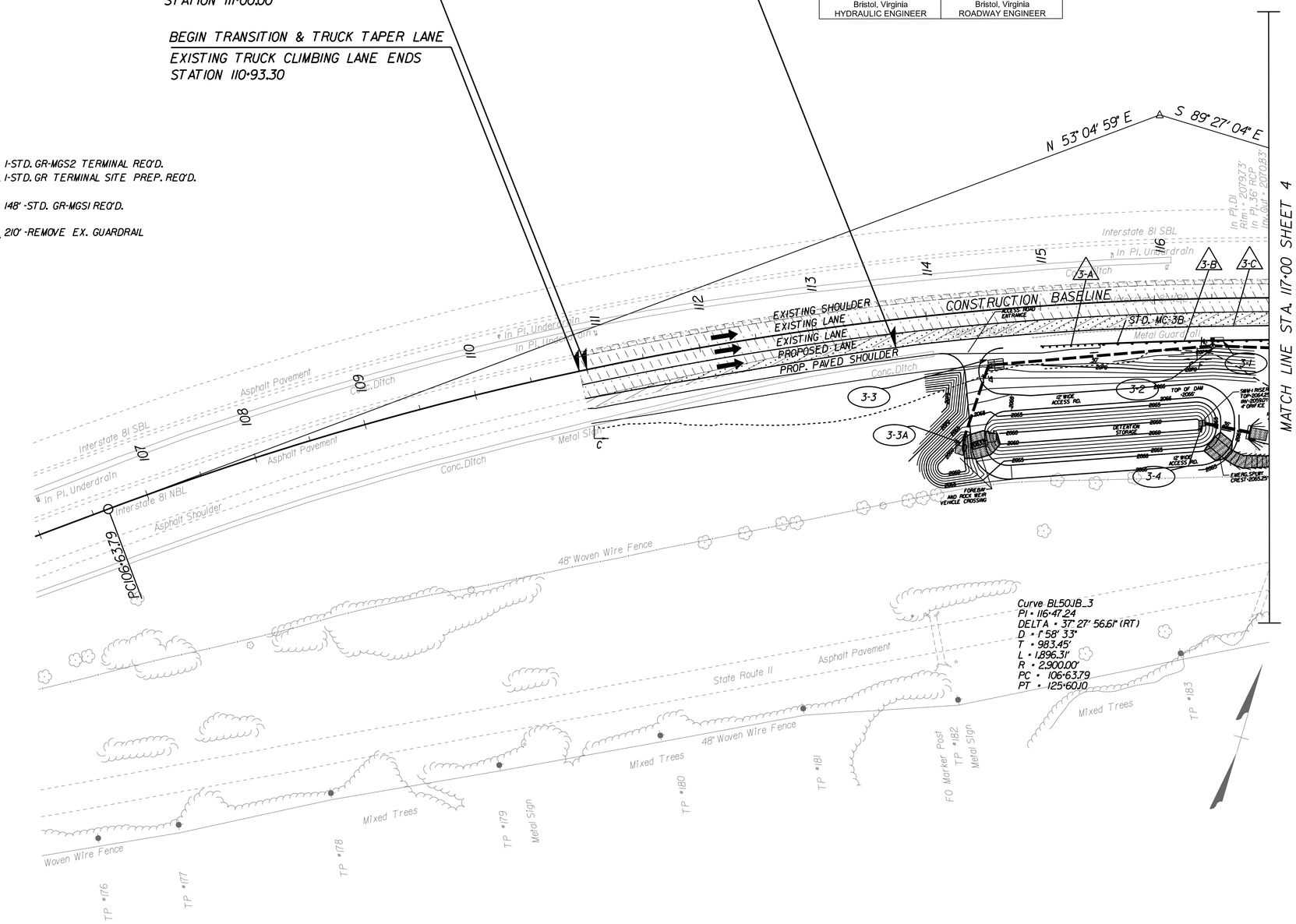
BEGIN TRANSITION & TRUCK TAPER LANE
EXISTING TRUCK CLIMBING LANE ENDS
STATION 110+93.30

END TRUCK TAPER LANE
STATION 113+70.66

3-A 1-STD. GR-MGS2 TERMINAL REQ'D.
1-STD. GR TERMINAL SITE PREP. REQ'D.

3-B 148' -STD. GR-MGS1 REQ'D.

3-C 210' -REMOVE EX. GUARDRAIL



Utility Contacts

Electric:

Appalachian Power
Scarlet Collie
13563 Owens Drive
Glade Spring, VA 24340
(276) 429-4117

Communications:

Point Broadband
Tim Nutter
15022 Lee Highway
Bristol, VA 24202
(276) 492-1953

CenturyLink
Steve Hastings
175 South 1st Street
Wytheville, VA 24382
(276) 223-6264

Water:

Town of Chilhowie
Joy Keen
325 East Lee Highway
Chilhowie, VA 24319
(276) 646-3232

C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills
Denotes Demo. of Pavement
Denotes Truck Lane Pavement
Denotes Planing of Pavement

3-3 Denotes Drainage Information
Denotes Temporary Silt Fence
Denotes Temporary Filter Barrier
Denotes Guardrail Information

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	3

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

PUBLIC HEARING

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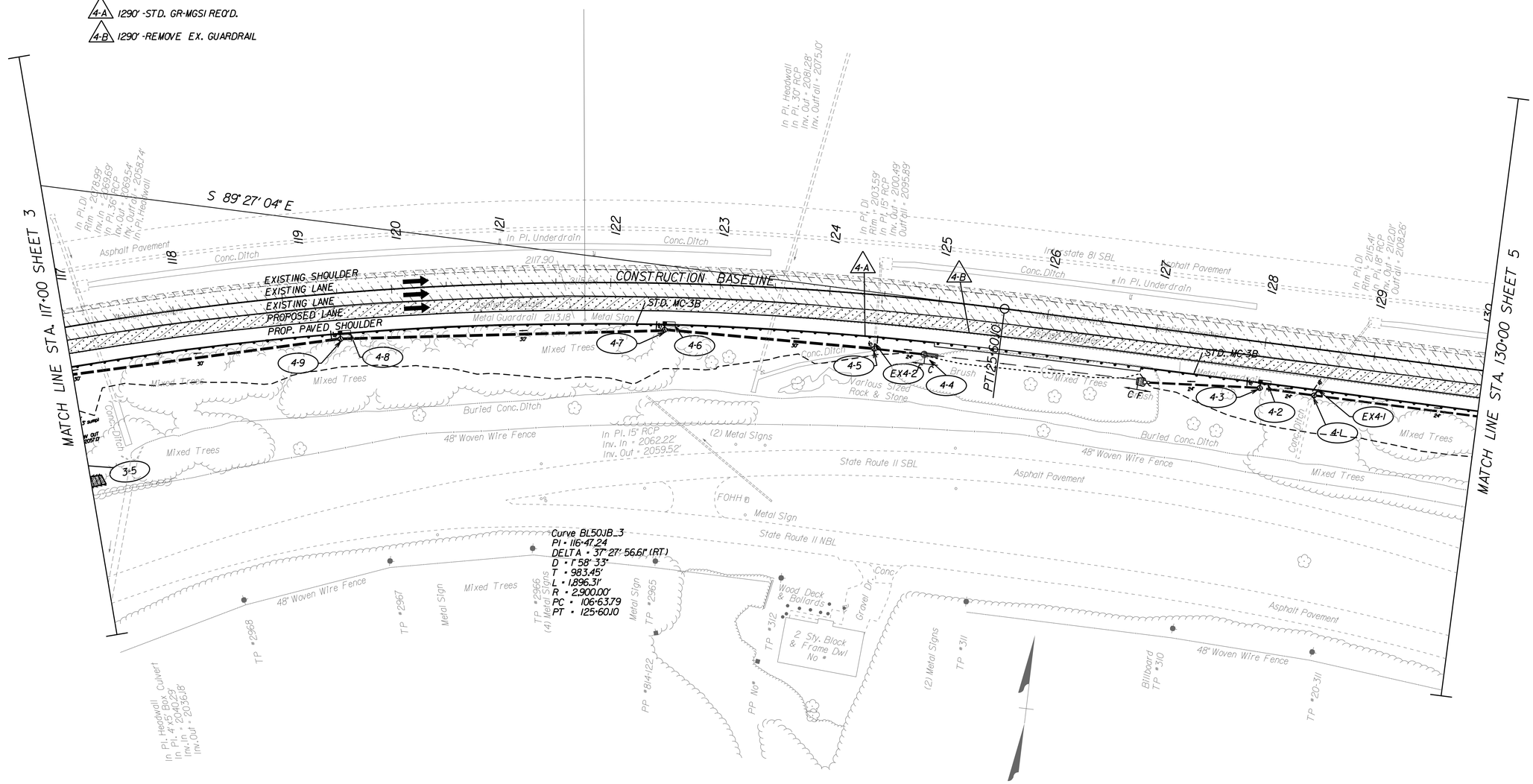
VDOT Location & Design Bristol, Virginia HYDRAULIC ENGINEER	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	4

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

REFERENCES
PROFILE 4A

4-A 1290' -STD. GR-MGSI REQ'D.
4-B 1290' -REMOVE EX. GUARDRAIL



C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills
Denotes Demo. of Pavement
Denotes Truck Lane Pavement
Denotes Planing of Pavement
3-3 Denotes Drainage Information
Denotes Temporary Silt Fence
Denotes Temporary Filter Barrier
Denotes Guardrail Information

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	4

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

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SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REFERENCES
PROFILE 5A

PUBLIC HEARING

5-A 600' -STD. GR-MGS1 REQ'D.
5-B 1 -STD. GR-MGS3 REQ'D.
5-C 500' -REMOVE EX. GUARDRAIL

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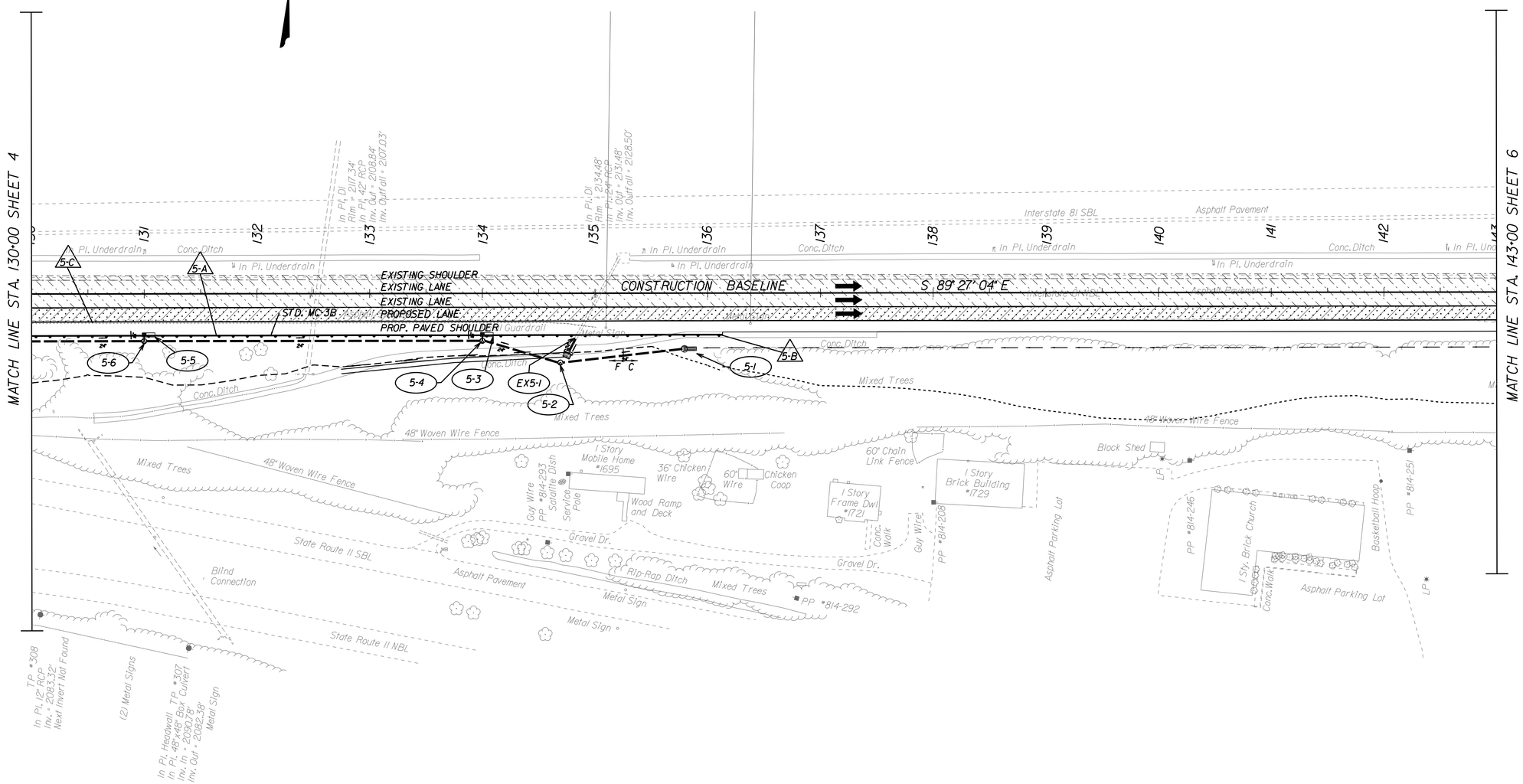
VDOT Location & Design Bristol, Virginia HYDRAULIC ENGINEER	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, 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



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Denotes Planing of Pavement
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Denotes Guardrail Information

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	5

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REFERENCES
PROFILE 6A

6-A 1-STD. GR-MGS2 TERMINAL REQ'D.
1-STD. GR TERMINAL SITE PREP. REQ'D.

6-B 903' -STD. GR-MGS1 REQ'D.

6-C 663' -REMOVE EX. GUARDRAIL

PUBLIC HEARING

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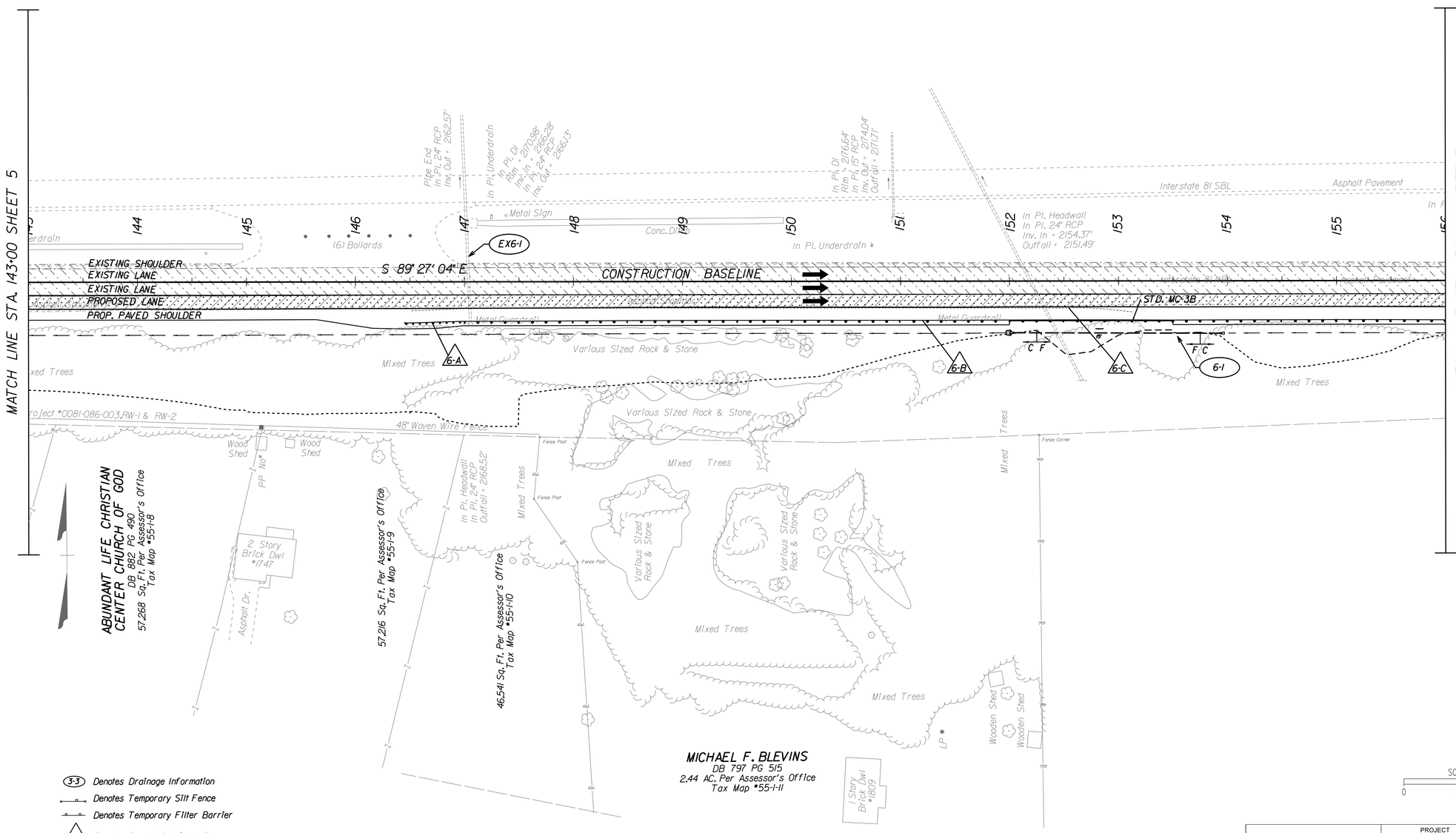
VDOT Location & Design Bristol, Virginia HYDRAULIC ENGINEER	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	6

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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Denotes Truck Lane Pavement
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3-3 Denotes Drainage Information
Denotes Temporary Silt Fence
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Denotes Guardrail Information

SCALE
0 50' 100'

PROJECT	SHEET NO.
0081-086-830	6

BRISTOL DISTRICT DESIGN UNIT

LIMITED ACCESS HIGHWAY

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PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

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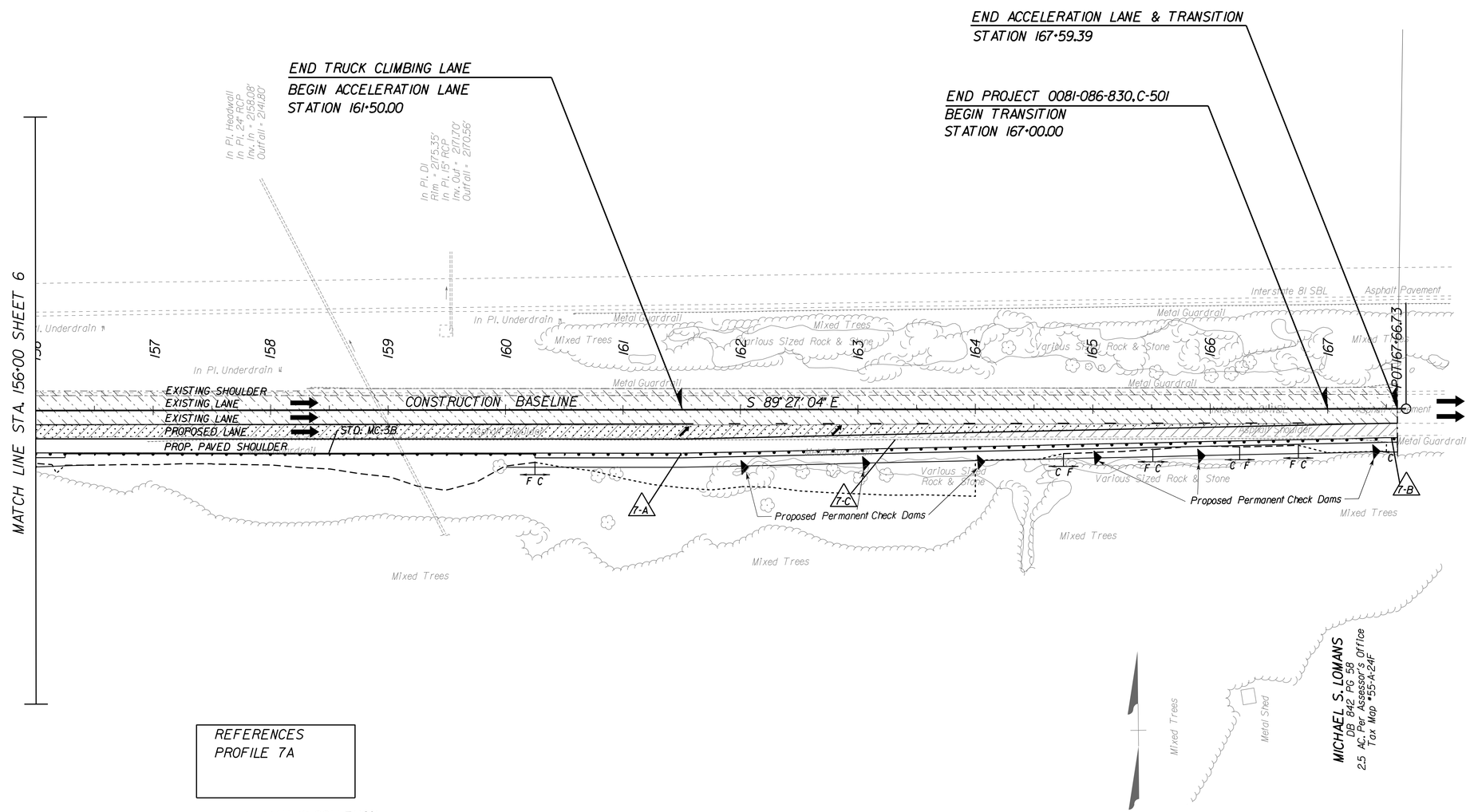
VDOT Location & Design Bristol, Virginia HYDRAULIC ENGINEER	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	7

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



REFERENCES
PROFILE 7A

WILLIAM W. GOLLEHON
DEBRA G. GOLLEHON
DB 441 PG 448
14.99 AC. Per Assessor's Office
Tax Map #55-A-24D

7-A 1149' -STD. GR-MGS1 REQ'D.
7-B 1 -STD. GR-MGS3 REQ'D.
7-C 1066' -REMOVE EX. GUARDRAIL

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Denotes Planing of Pavement

3-3 Denotes Drainage Information
Denotes Temporary Silt Fence
Denotes Temporary Filter Barrier
Denotes Guardrail Information

SCALE
0 50' 100'

PROJECT	SHEET NO.
0081-086-830	7

PUBLIC HEARING PLANS

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

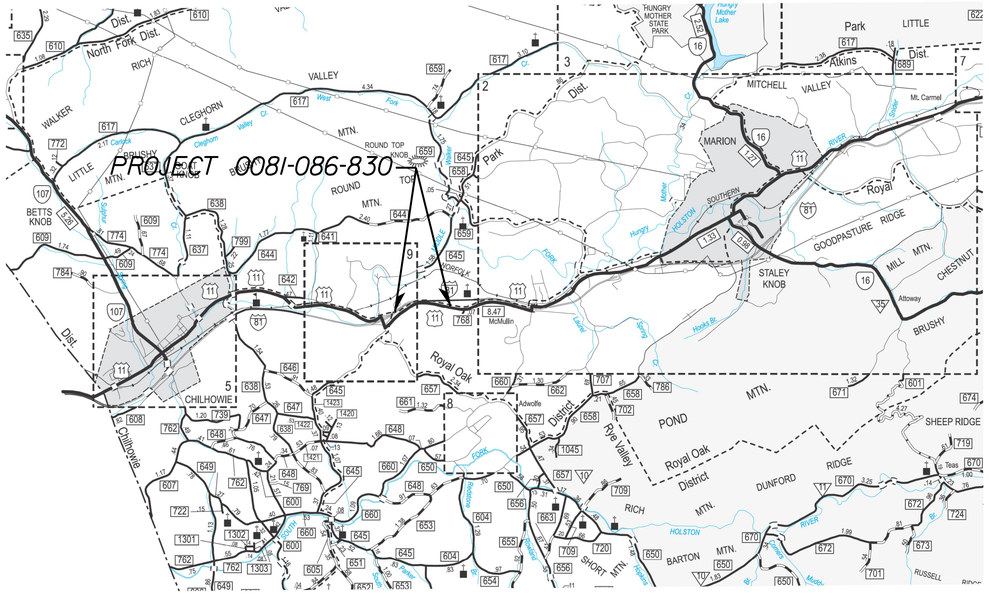
PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert, Inc 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

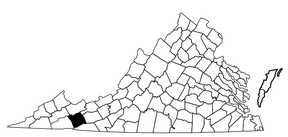
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

I-81 Constructability Plan Review Team Members
Marty Halloway - CN
Brian Plummer - CN
Clay Stowers - Materials
Bill Lester - Materials
Jeremy Mullins - Traffic
George Young - Env.
Dennis Sanders - Env.
Richard Buckingham - Hydraulics
Josh Dollinger - Hydraulics
David Duncan - RW
Josh Sproles Utilities

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1A

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





INDEX TO COUNTY LOCATION

SMYTH COUNTY

LEGEND

HIGHWAY ROUTE SIGNS

- 81 INTERSTATE HIGHWAY
- 1 U.S. HIGHWAY
- 2 VA. PRIMARY HIGHWAY
- 333 VA. SECONDARY HIGHWAY

N

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	STATION	TO STATION
1	TITLE SHEET		
1A	LOCATION MAP, INDEX OF SHEETS		
1D	SURVEY ALIGNMENT DATA		
1E	CONSTRUCTION ALIGNMENT DATA		
1F(1) ~ (2)	SEQ. OF CONSTRUCTION, TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS		
1F(3A) ~ (3G)	TEMPORARY TRAFFIC CONTROL STAGE 1		
1F(4A) ~ (4E)	TEMPORARY TRAFFIC CONTROL STAGE 2		
1F(5A) ~ (5G)	TEMPORARY TRAFFIC CONTROL STAGE 3		
1F(6A) ~ (6G)	TEMPORARY TRAFFIC CONTROL STAGE 4		
1F(7A) ~ (7G)	TEMPORARY TRAFFIC CONTROL STAGE 5		
2A - 2B	TYPICAL SECTIONS		
2C(1) ~ (4)	STORMWATER POLLUTION PREVENTION PLAN GENERAL INFORMATION		
3 - 3A	PLAN & PROFILE SHEETS	100+93.30	117+00
3B	E & S PHASE I PLAN		
3C	E & S PHASE II PLAN		
4 - 4A	PLAN & PROFILE SHEETS	117+00	130+00
4B	E & S PHASE I PLAN		
4C	E & S PHASE II PLAN		
5 - 5A	PLAN & PROFILE SHEETS	130+00	143+00
5B	E & S PHASE I PLAN		
5C	E & S PHASE II PLAN		
6 - 6A	PLAN & PROFILE SHEETS	143+00	156+00
6B	E & S PHASE I PLAN		
6C	E & S PHASE II PLAN		
7 - 7A	PLAN & PROFILE SHEETS	156+00	167+59.39
7B	E & S PHASE I PLAN		
7C	E & S PHASE II PLAN		
1 - 61	Cross Sections		

* Denotes sheets are not to be printed for construction, but sheets shall be included in final set of construction plans stored in projectwise.

INTERSTATE 81 NORTH BOUND LANE LOCATION MAP

SCALE

MILES 0 1 2

PROJECT	SHEET NO.
0081-086-830	1A

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SURVEY DATA SHEET

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	ID

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. : 923 Date : _-_-_

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10570594.271 ft.
North (Y) : 3468753.656 ft.
Ortho. Elevation (H) : 1994.96 ft.
Zone : North _ South X (place an 'X' beside one)

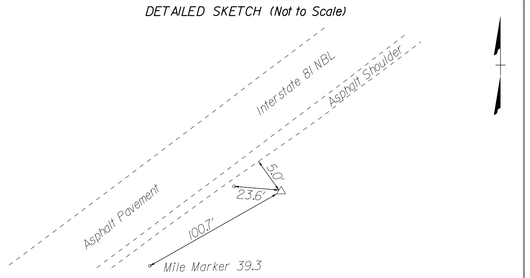
Project Specific Combined Scale Factor: 1.000000000 (9 Decimal Places)

Latitude : 36°48'29.17070" N (5 Decimal Places)
Longitude : 81°37'00.55096" W (5 Decimal Places)
Geoid Separation (N) : -101.44
Ellipsoid Height (h) : 1893.52
Horizontal Datum : NAD83 Year : 2011-2010.00
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 924 Is 59°40'40"
Control Based On: CORS Stations
WVAT, LS04, ASUB, TNII, VABG

Project Information
Project Number : UPC 116157
Route : I-81 City/County : Smyth
Established By : Woolpert

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)



Station Is A Iron Pin And Cap Set Flush With The Ground Approx. 0.16 Mi Northeast Of Fox Valley Rd. & I-81. Station Is 23.6' Northeast Of Merge Sign, 5.0' Southeast Of Edge Of Pavement, 100.7' Northeast From Mile Marker 39.3 Sign.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 924 Date : _-_-_

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10571084.154 ft.
North (Y) : 3469040.174 ft.
Ortho. Elevation (H) : 2012.80 ft.
Zone : North _ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.000000000 (9 Decimal Places)

Latitude : 36°48'32.16205" N (5 Decimal Places)
Longitude : 81°36'54.64656" W (5 Decimal Places)
Geoid Separation (N) : -101.44
Ellipsoid Height (h) : 1911.36
Horizontal Datum : NAD83 Year : 2011-2010.00
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 923 Is 239°40'40"
Control Based On: CORS Stations
WVAT, LS04, ASUB, TNII, VABG

Project Information
Project Number : UPC 116157
Route : I-81 City/County : Smyth
Established By : Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :
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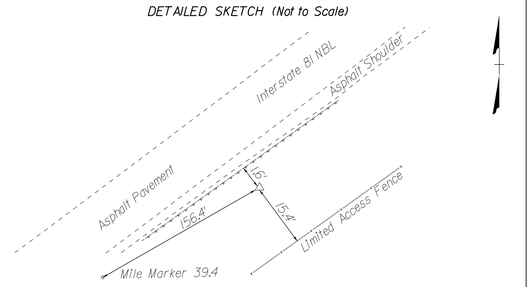
• Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Iron Pin And Cap Set Flush With The Ground Approx. 0.2 Mi. Northeast Of Fox Valley Rd. & I-81. Station Is 1.6' Southeast Of Metal Guardrail, 15.4' Northwest From Limited Access Fence, 156.4' Northeast From Mile Marker 39.4.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 925 Date : _-_-_

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10573660.599 ft.
North (Y) : 3470289.209 ft.
Ortho. Elevation (H) : 2104.14 ft.
Zone : North _ South X (place an 'X' beside one)

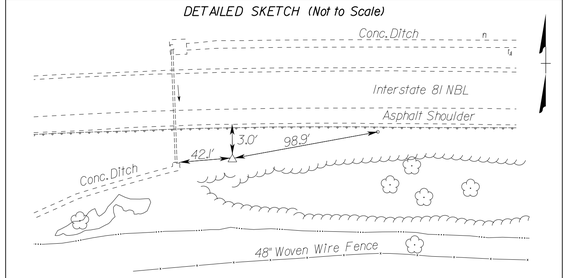
Project Specific Combined Scale Factor: 1.000000000 (9 Decimal Places)

Latitude : 36°48'45.34489" N (5 Decimal Places)
Longitude : 81°36'23.48704" W (5 Decimal Places)
Geoid Separation (N) : -101.44
Ellipsoid Height (h) : 2082.70
Horizontal Datum : NAD83 Year : 2011-2010.00
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 926 Is 90°26'07"
Control Based On: CORS Stations
WVAT, LS04, ASUB, TNII, VABG

Project Information
Project Number : UPC 116157
Route : I-81 City/County : Smyth
Established By : Woolpert

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)



Station Is A Iron Pin And Cap Set Flush With The Ground Approx. 0.7 Mi Northeast Of Fox Valley Rd. & I-81. Station Is 3.0' South From A Metal Guardrail, 98.9' West Of Mile Marker 40, 42.4' Northeast From Northeast Corner of A Headwall.

LD-200 (REV. 10/2014)

INTERSTATE 81 SOUTHBOUND LANES CONTROL BASELINE

Point	Station	Distance	Bearing	Project Coordinates North (Y)	Project Coordinates East (X)	Elev.	Desc.
CS	923			3468753.656	10570594.271	1994.96	Pin & Cap
		567.52'	N59°40'40"E				
CS	924			3469040.174	10571084.154	2012.80	Pin & Cap
		620.36'	N54°26'10"E				
CSS	701			3469400.981	10571588.798	2030.69	Pin & Cap
		310.11'	N59°00'13"E				
CSS	702			3469560.684	10571854.624	2051.20	Pin & Cap
		685.46'	N58°10'57"E				
CSS	703			3469922.070	10572437.084	2072.67	Pin & Cap
		539.72'	N61°30'45"E				
CSS	704			3470179.500	10572911.458	2079.99	Pin & Cap
		283.07'	N77°02'35"E				
CSS	705			3470242.971	10573187.325	2088.95	Pin & Cap
		475.53'	N84°25'12"E				
CS	925			3470289.209	10573660.599	2104.14	Pin & Cap
		633.34'	S89°33'53"E				
CS	926			3470284.397	10574293.918	2124.00	Pin & Cap
		646.25'	S89°17'38"E				
CSS	706			3470276.433	10574940.118	2143.95	Pin & Cap
		658.84'	S89°25'32"E				
CSS	707			3470269.827	10575598.923	2164.19	Pin & Cap
		866.41'	S89°39'36"E				
CSS	708			3470264.686	10576465.321	2186.96	Pin & Cap
		662.74'	S89°21'12"E				
CSS	709			3470257.207	10577128.022	2187.72	Pin & Cap
		737.54'	S89°10'23"E				
CSS	710			3470246.563	10577865.490	2180.26	Pin & Cap
		704.45'	S89°47'17"E				
CS	927			3470243.956	10578569.935	2172.83	Pin & Cap
		626.49'	S87°43'47"E				
CS	928			3470219.140	10579195.929	2166.35	Pin & Cap

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 926 Date : _-_-_

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10574293.918 ft.
North (Y) : 3470284.397 ft.
Ortho. Elevation (H) : 2124.00 ft.
Zone : North _ South X (place an 'X' beside one)

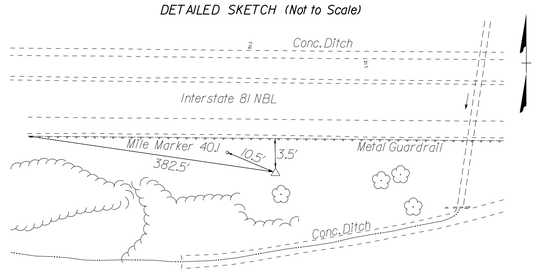
Project Specific Combined Scale Factor: 1.000000000 (9 Decimal Places)

Latitude : 36°48'45.50329" N (5 Decimal Places)
Longitude : 81°36'15.70114" W (5 Decimal Places)
Geoid Separation (N) : -101.44
Ellipsoid Height (h) : 2022.56
Horizontal Datum : NAD83 Year : 2011-2010.00
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 925 Is 270°26'07"
Control Based On: CORS Stations
WVAT, LS04, ASUB, TNII, VABG

Project Information
Project Number : UPC 116157
Route : I-81 City/County : Smyth
Established By : Woolpert

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)



Station Is A Iron Pin And Cap Set Flush With The Ground Approx. 0.8 Mi Northeast Of Fox Valley Rd. & I-81. Station Is 3.5' South From Metal Guardrail, 10.5' East Of Mile Marker 40.1, 382.5' East Of End of Metal Guardrail.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 927 Date : _-_-_

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10578569.935 ft.
North (Y) : 3470243.956 ft.
Ortho. Elevation (H) : 2172.83 ft.
Zone : North _ South X (place an 'X' beside one)

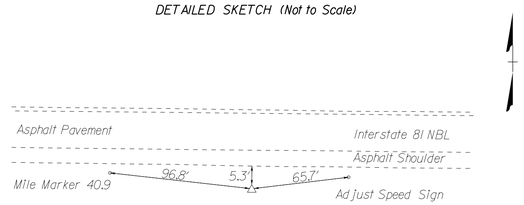
Project Specific Combined Scale Factor: 1.000000000 (9 Decimal Places)

Latitude : 36°48'46.49047" N (5 Decimal Places)
Longitude : 81°35'23.12918" W (5 Decimal Places)
Geoid Separation (N) : -101.45
Ellipsoid Height (h) : 2017.38
Horizontal Datum : NAD83 Year : 2011-2010.00
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 928 Is 92°16'13"
Control Based On: CORS Stations
WVAT, LS04, ASUB, TNII, VABG

Project Information
Project Number : UPC 116157
Route : I-81 City/County : Smyth
Established By : Woolpert

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)



Station Is A Iron Pin And Cap Set Flush With The Ground Approx. 1.0 Mi Northwest Of Aswolfe Rd. & I-81. Station Is 5.3' South Of Edge Of Pavement, 65.7' West of Sign, 96.8' East Of Mile Marker 40.9.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 928 Date : _-_-_

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10579195.929 ft.
North (Y) : 3470219.140 ft.
Ortho. Elevation (H) : 2166.35 ft.
Zone : North _ South X (place an 'X' beside one)

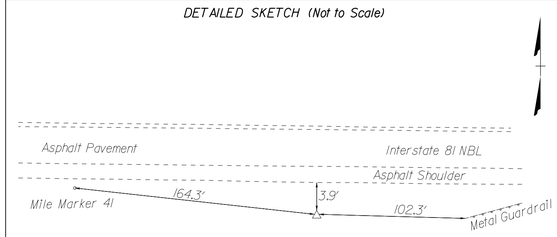
Project Specific Combined Scale Factor: 1.000000000 (9 Decimal Places)

Latitude : 36°48'46.44770" N (5 Decimal Places)
Longitude : 81°35'15.42520" W (5 Decimal Places)
Geoid Separation (N) : -101.45
Ellipsoid Height (h) : 2064.90
Horizontal Datum : NAD83 Year : 2011-2010.00
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 927 Is 272°16'13"
Control Based On: CORS Stations
WVAT, LS04, ASUB, TNII, VABG

Project Information
Project Number : UPC 116157
Route : I-81 City/County : Smyth
Established By : Woolpert

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)



Station Is A Iron Pin And Cap Set Flush With The Ground Approx. 0.9 Mi Northwest Of Aswolfe Rd. & I-81. Station Is 3.9' South Of Edge Of Pavement, 102.3' West Of End Of Metal Guardrail, 164.3' East Of Mile Marker 41.

LD-200 (REV. 10/2014)

PUBLIC HEARING

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

PROJECT	SHEET NO.
0081-086-830	ID

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346, 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1E

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

VDOT Location & Design
Bristol, Virginia
ROADWAY ENGINEER

CONSTRUCTION ALIGNMENT DATA

Alignment Name: BL50JB
Alignment Description:
Alignment Style: - 50 Scale Baselines
Station Northing Easting

Element: Linear
POB ( ) 100+00.00 RI 3469338.7819 10571435.7534
PC ( ) 106+63.79 RI 3469737.4893 10571966.4569
Tangential Direction: N 53°04'59" E
Tangential Length: 663.79

Element: Circular
PC ( ) 106+63.79 RI 3469737.4893 10571966.4569
PI ( ) 116+47.24 RI 3470328.2037 10572752.7332
CC ( ) 3467418.9156 10573708.3570
PT ( ) 125+60.10 RI 3470318.7826 10573736.1382
Radius: 2900.00
Delta: 37°27'57" Right
Degree of Curvature (Arc): 1°58'33"
Length: 1896.31
Tangent: 983.45
Chord: 1862.71
Middle Ordinate: 153.62
External: 162.22
Tangent Direction: N 53°04'59" E
Radial Direction: S 36°55'01" E
Chord Direction: N 71°48'58" E
Radial Direction: S 0°32'56" W
Tangent Direction: S 89°27'04" E

Element: Linear
PT ( ) 125+60.10 RI 3470318.7826 10573736.1382
POE ( ) 167+66.73 RI 3470278.4843 10577942.5750
Tangential Direction: S 89°27'04" E
Tangential Length:

PUBLIC HEARING

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346, 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

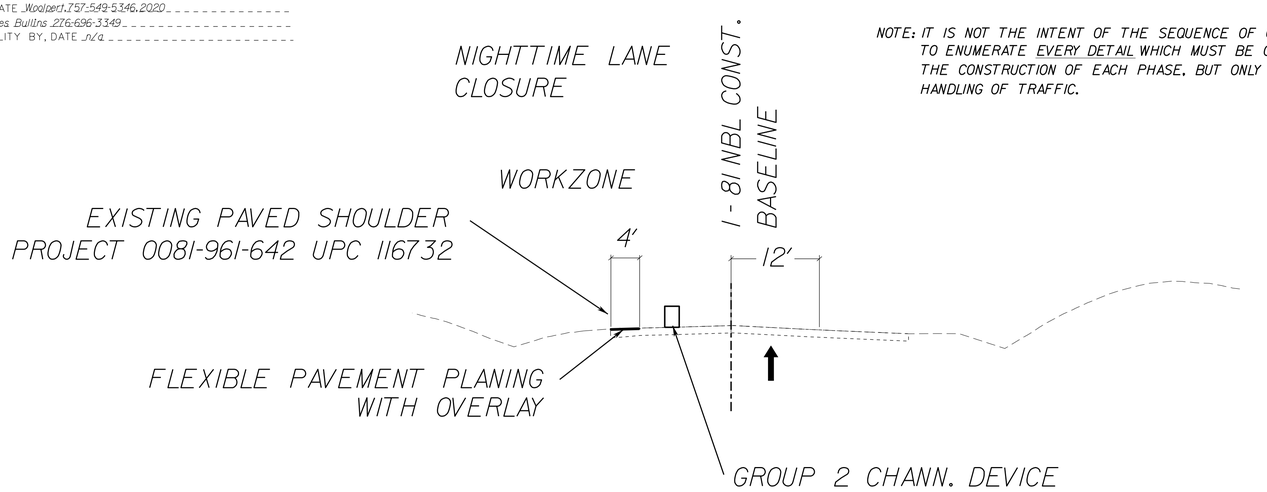
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(1)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

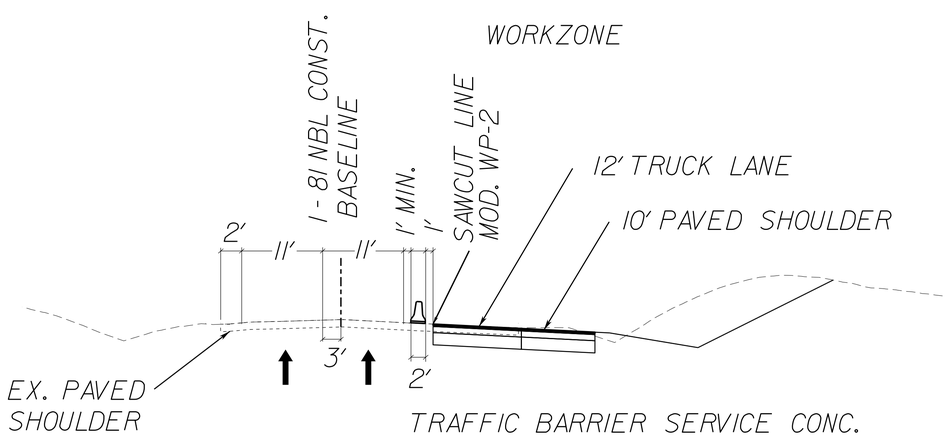
NOTE: IT IS NOT THE INTENT OF THE SEQUENCE OF CONSTRUCTION PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION



Typical Section - Stage 1

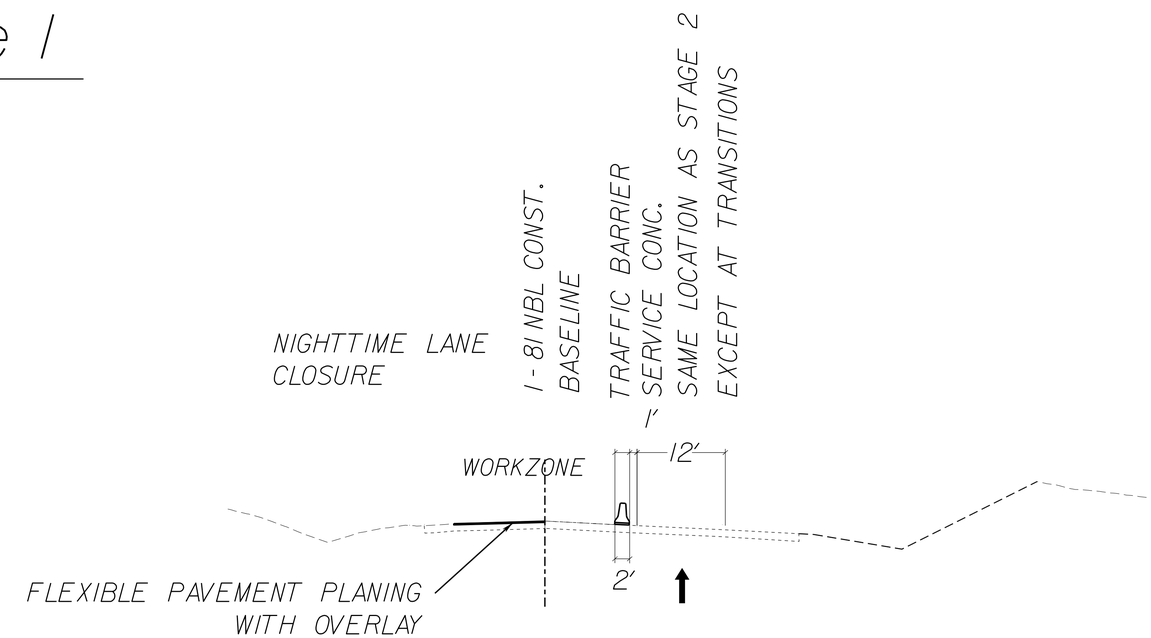
(OVERLAY EXISTING RUMBLE STRIPS)



Typical Section - Stage 2

SAW CUT LINE TYPICAL AT THE RIGHT EDGE PAVE. (WHITE PAINT LINE)

NOTE: THE EXISTING LANE WIDTH VARIES (BARRIER LOCATION BASED ON SAWCUT LINE)



Typical Section - Stage 3

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

PROJECT	SHEET NO.
0081-086-830	1F(1)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

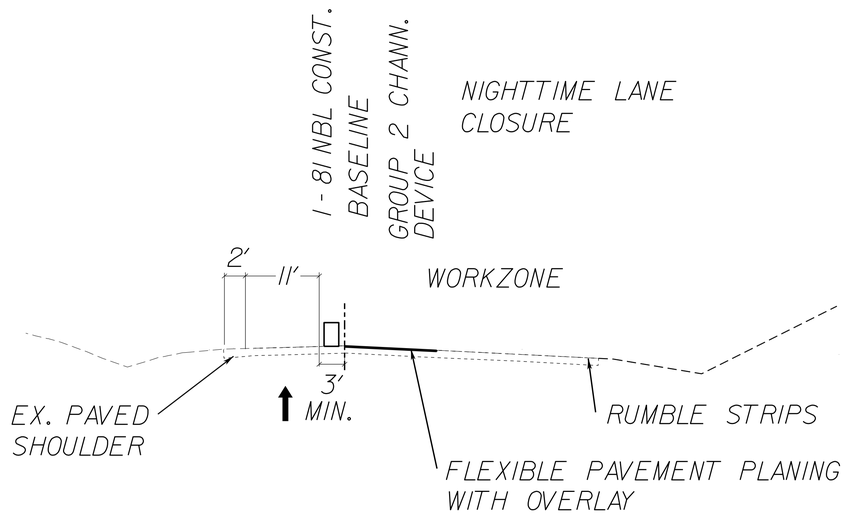
BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(2)

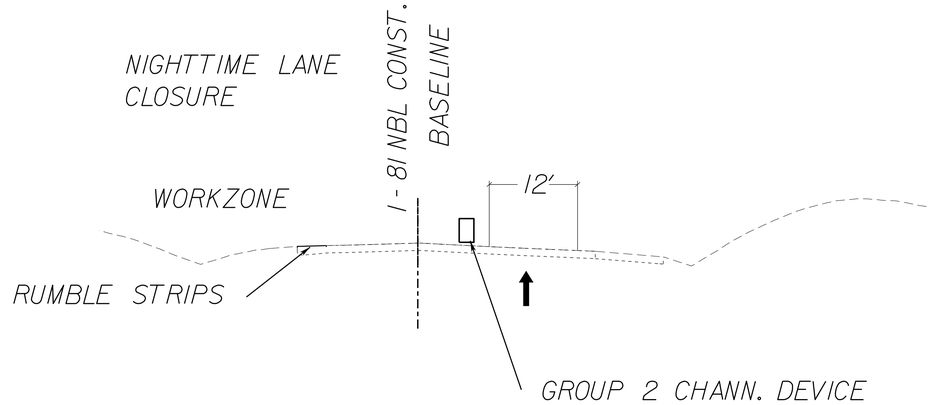
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



Typical Section - Stage 4

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



Typical Section - Stage 5

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

NOTE: IT IS NOT THE INTENT OF THE SEQUENCE OF CONSTRUCTION PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC.

PROJECT	SHEET NO.
0081-086-830	1F(2)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

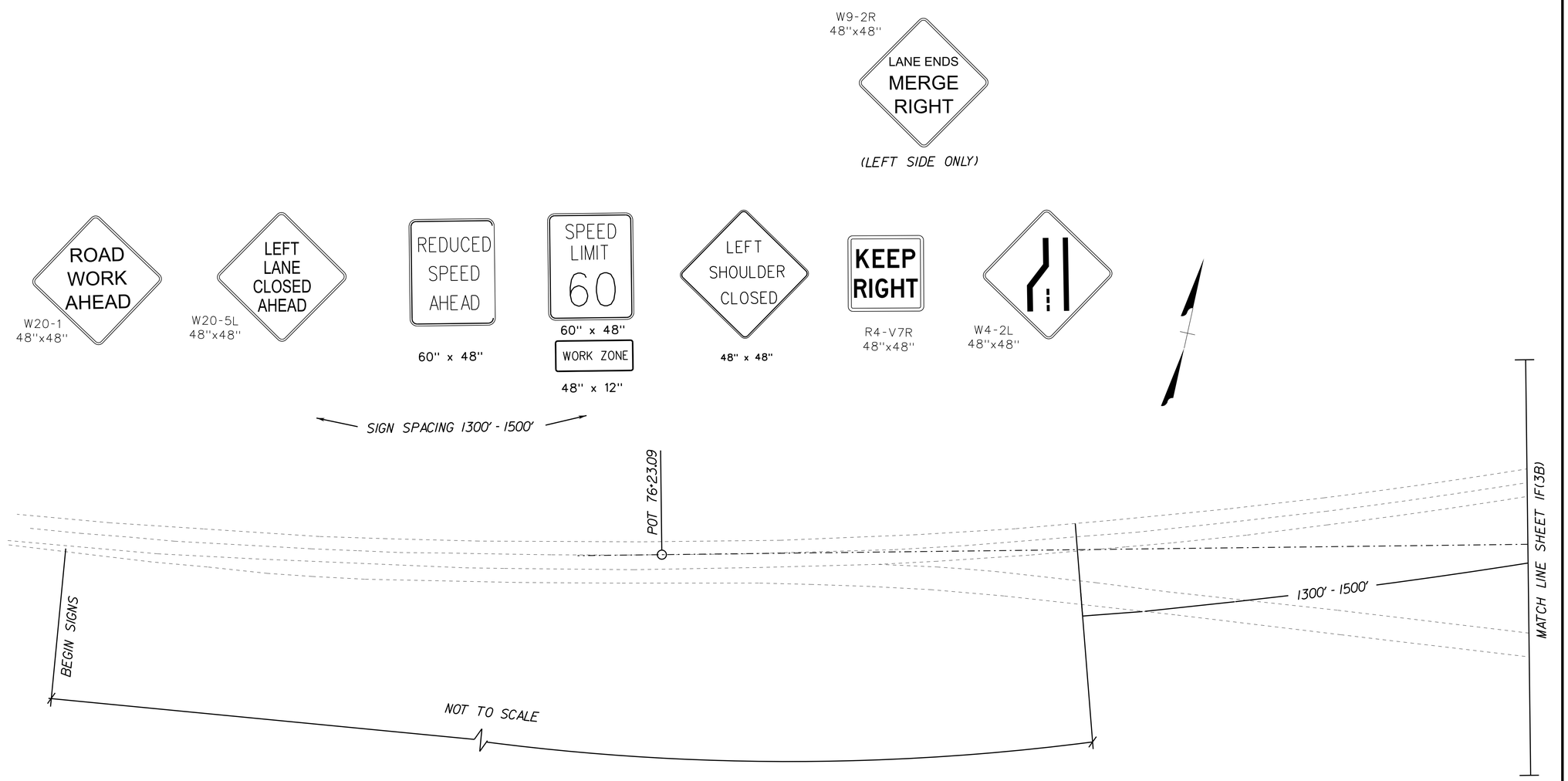
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(3A)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



TRAFFIC CONTROL GUIDANCE - CONST. SIGNS W/ WOOD POSTS NORTH BOUND LANE (RIGHT & LEFT ℄ UNLESS NOTED)

STAGE 1

	PROJECT	SHEET NO.
	.	1F(3A)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

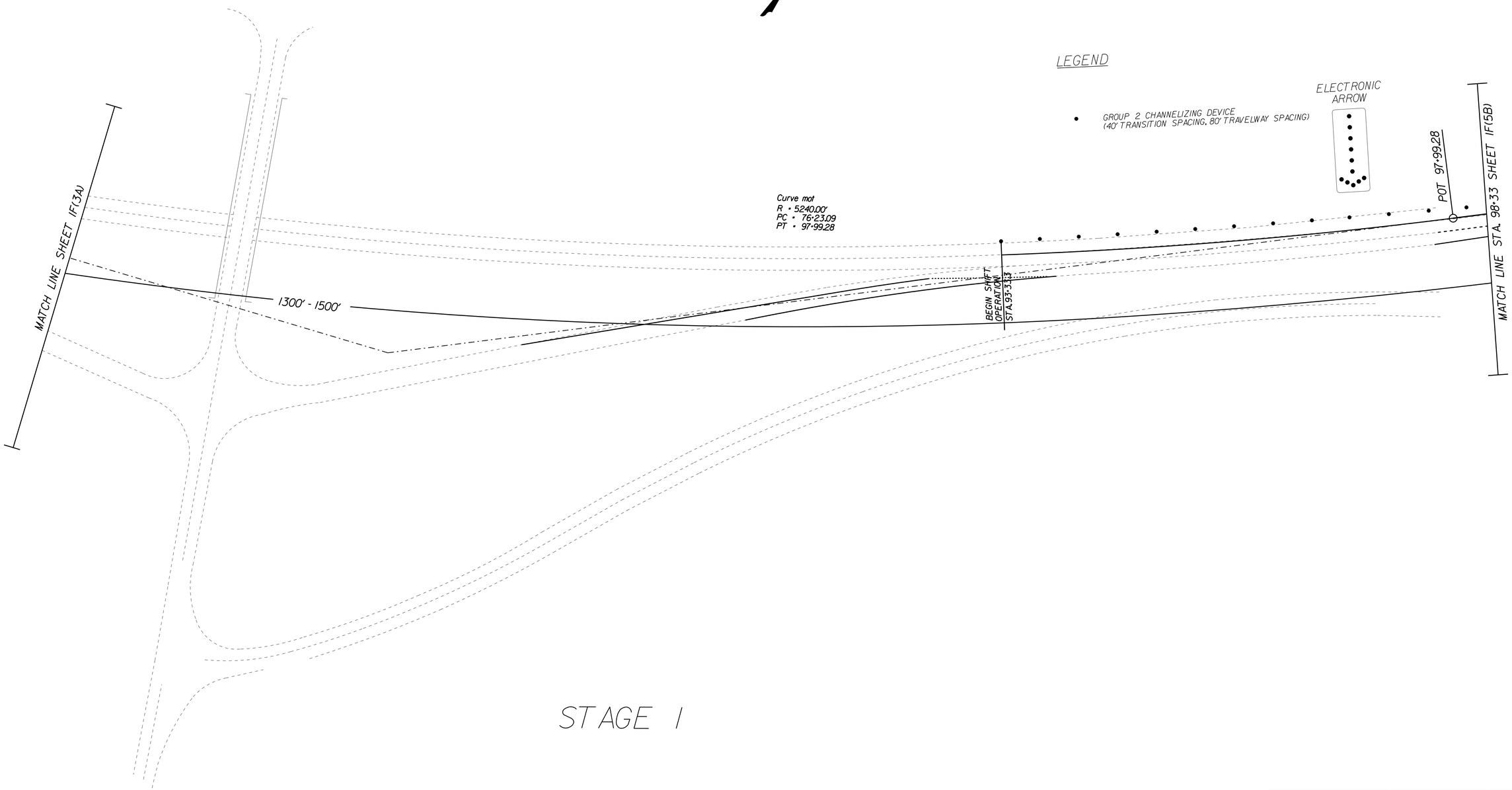
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(3B)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



	PROJECT	SHEET NO.
	-	1F(3B)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

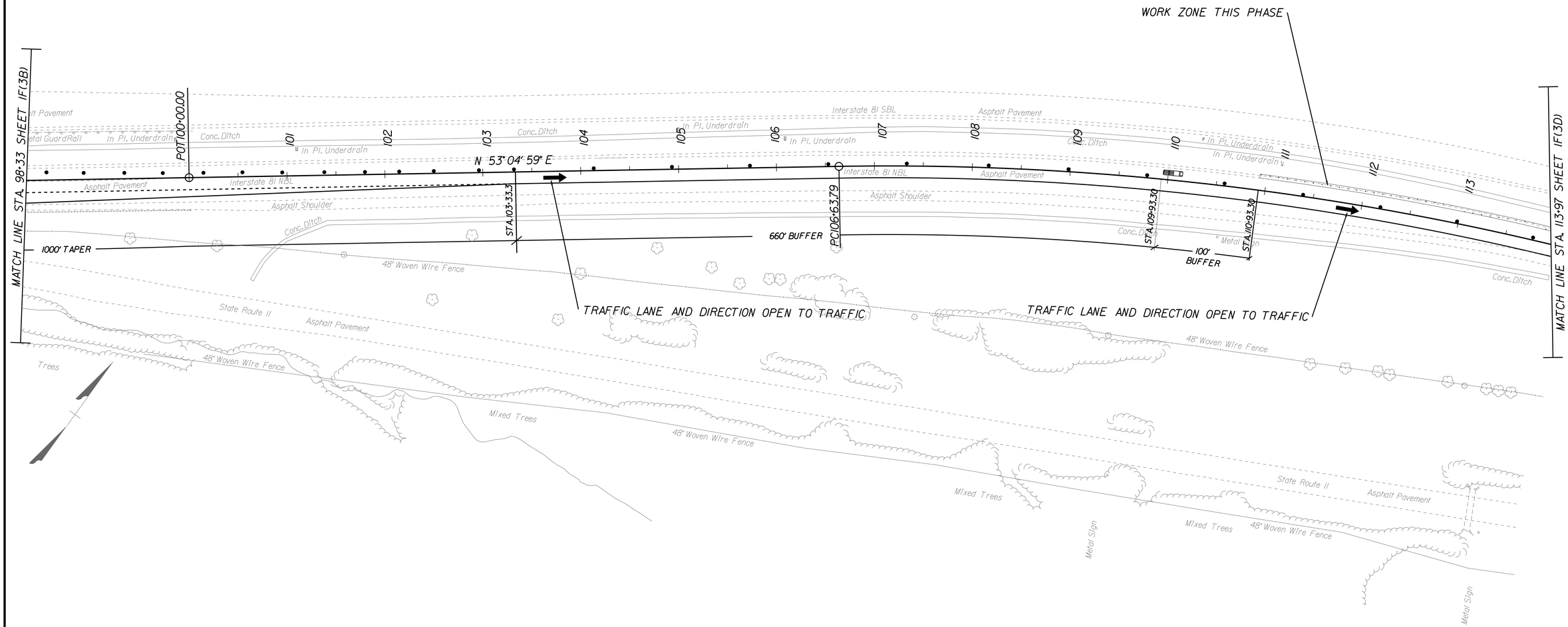
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(3C)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

LEGEND

• GROUP 2 CHANNELIZING DEVICE (40' TRANSITION SPACING, 80' TRAVELWAY SPACING)



STAGE 1

PROJECT	SHEET NO.
0081-086-830	IF(3C)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

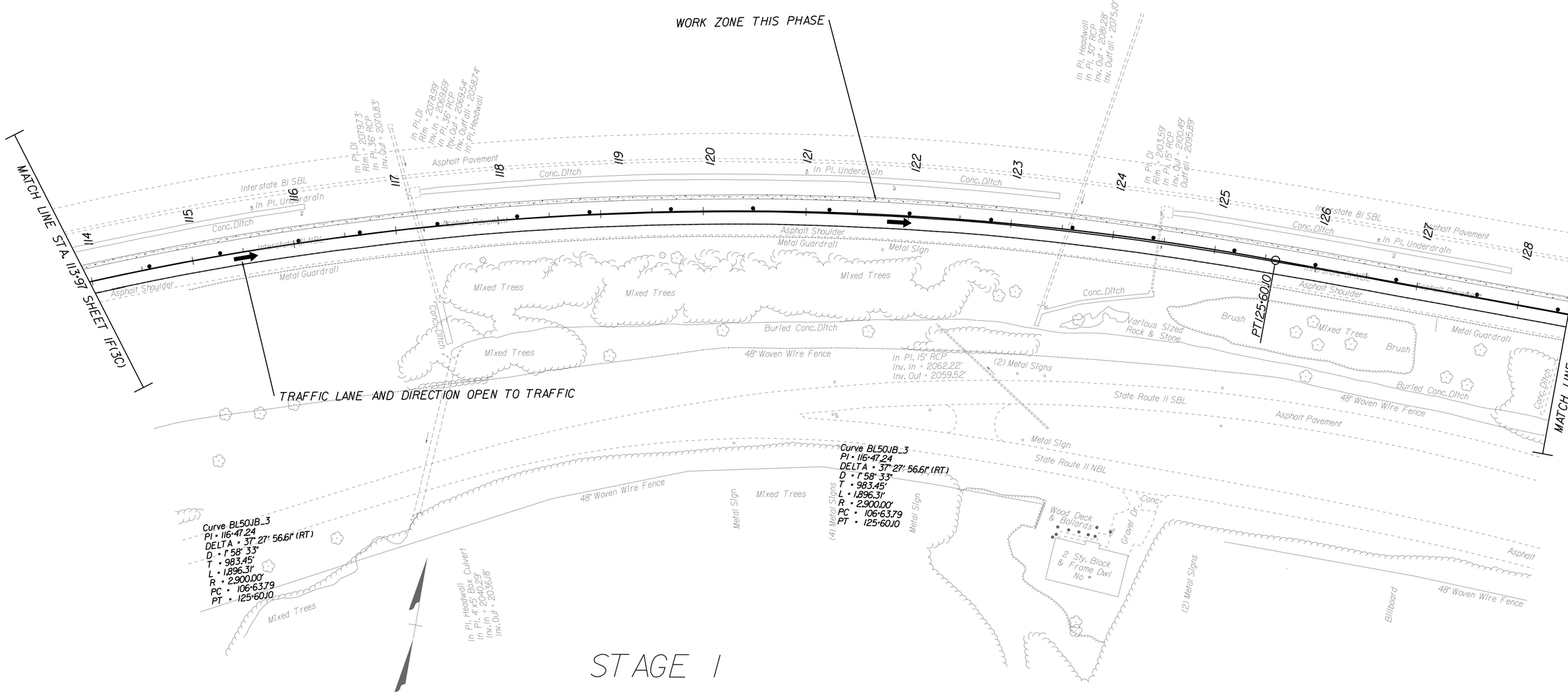
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(3D)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

LEGEND

• GROUP 2 CHANNELIZING DEVICE (40' TRANSITION SPACING, 80' TRAVELWAY SPACING)



STAGE 1

PROJECT	SHEET NO.
0081-086-830	IF(3D)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

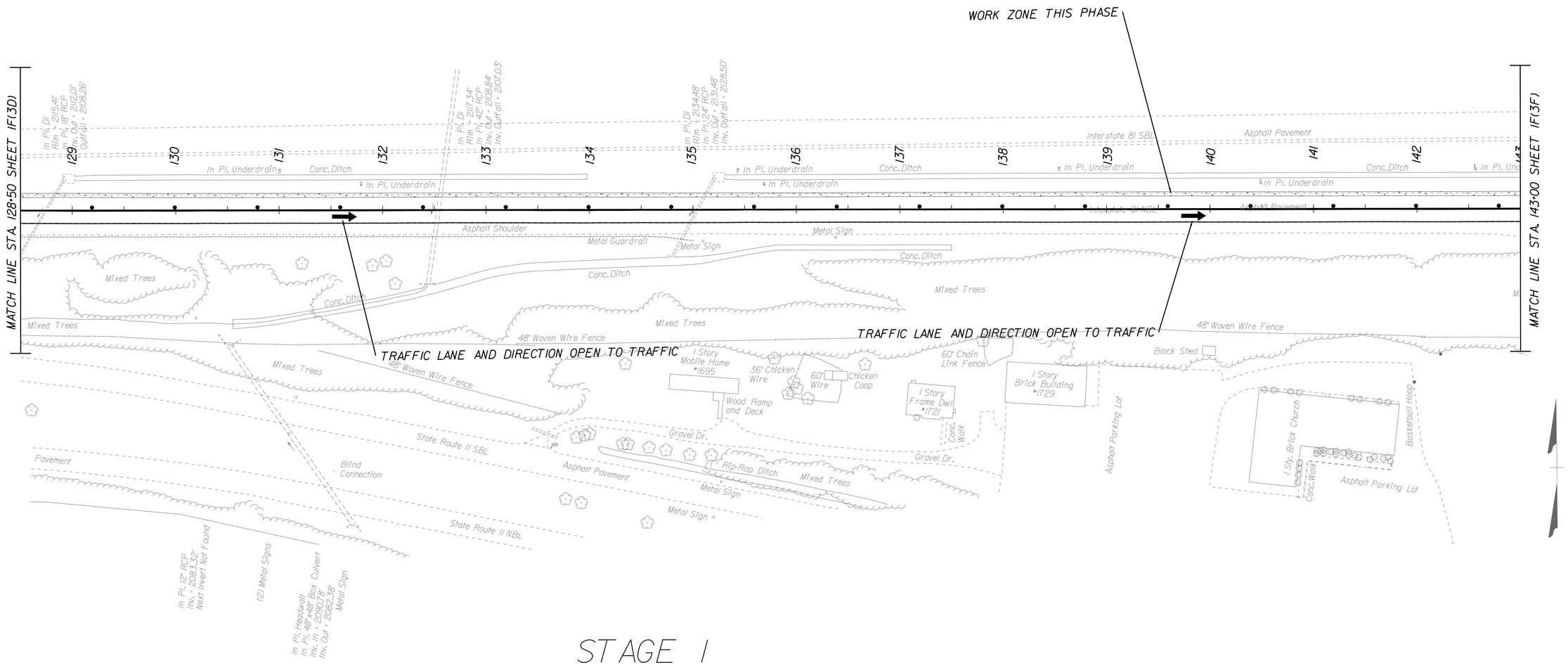
SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(3E)

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

LEGEND

- GROUP 2 CHANNELIZING DEVICE (40' TRANSITION SPACING, 80' TRAVELWAY SPACING)



STAGE 1

PROJECT	SHEET NO.
0081-086-830	IF(3E)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

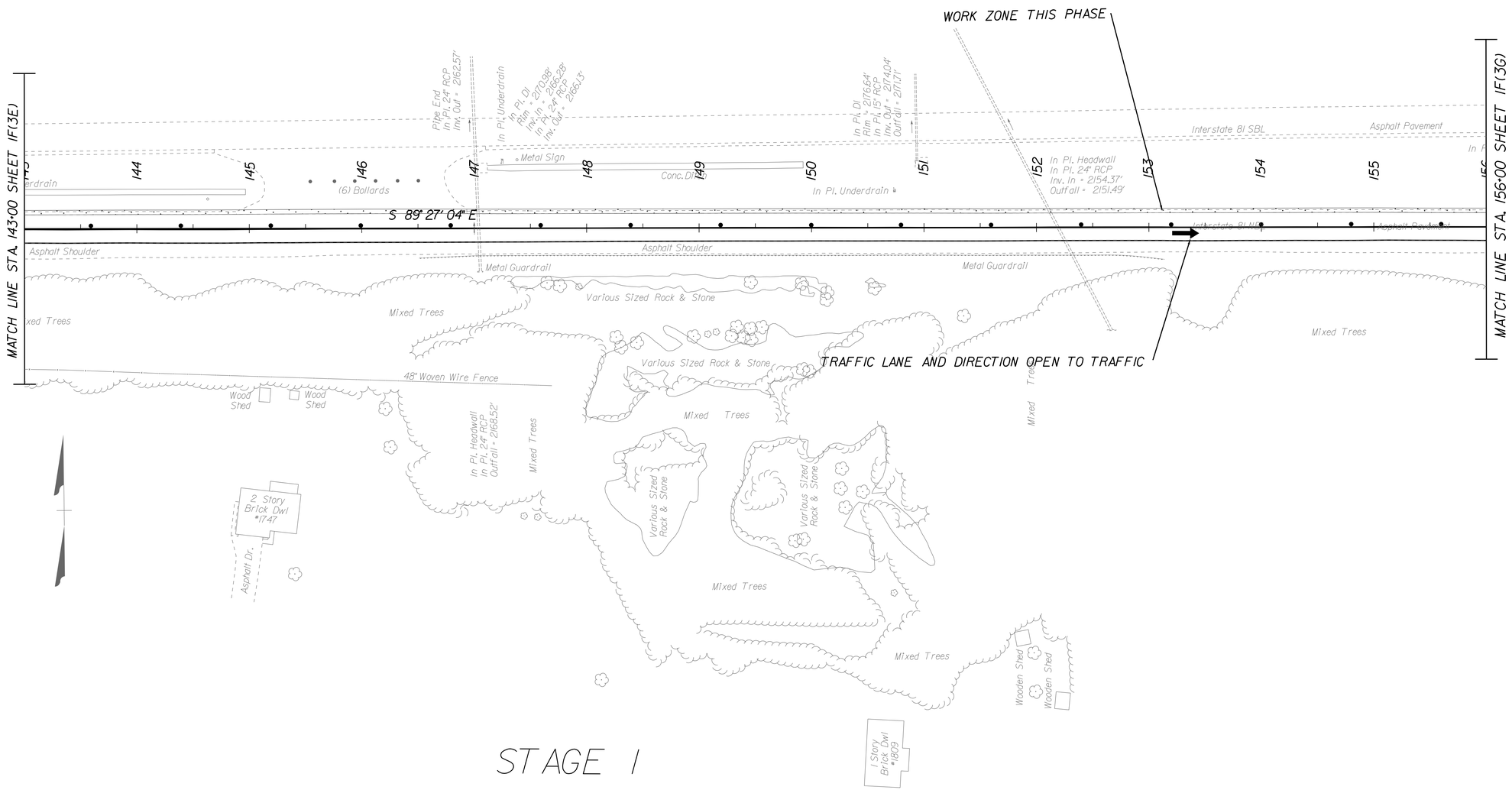
SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(3F)

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

LEGEND

- GROUP 2 CHANNELIZING DEVICE (40' TRANSITION SPACING, 80' TRAVELWAY SPACING)



STAGE 1

PROJECT	SHEET NO.
0081-086-830	1F(3F)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

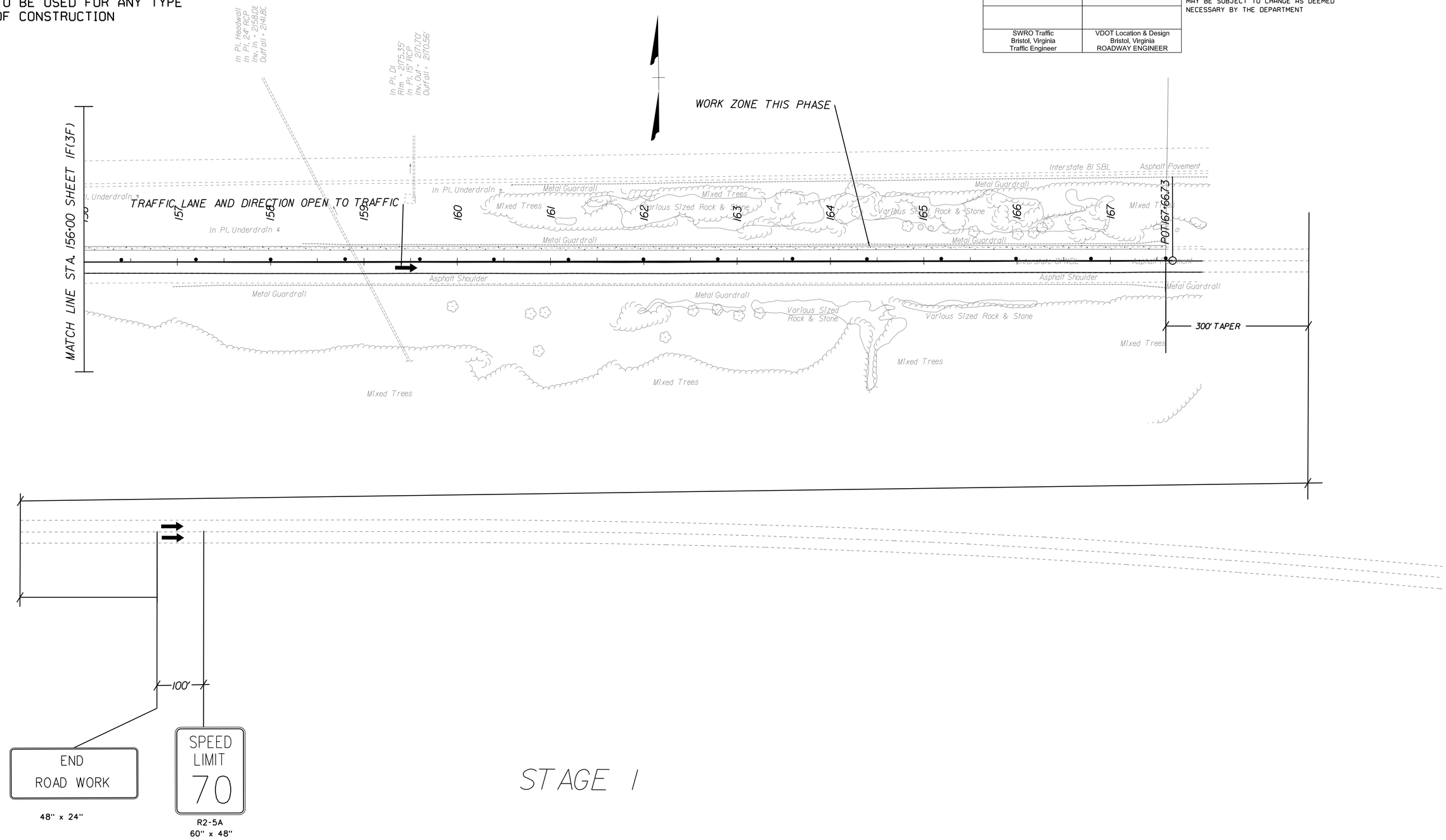
SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(3G)

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



STAGE 1

	PROJECT	SHEET NO.
	·	1F(3G)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

TRAFFIC CONTROL GUIDANCE - CONST. SIGNS W/ WOOD POSTS NORTH BOUND LANE (RIGHT & LEFT ℄)

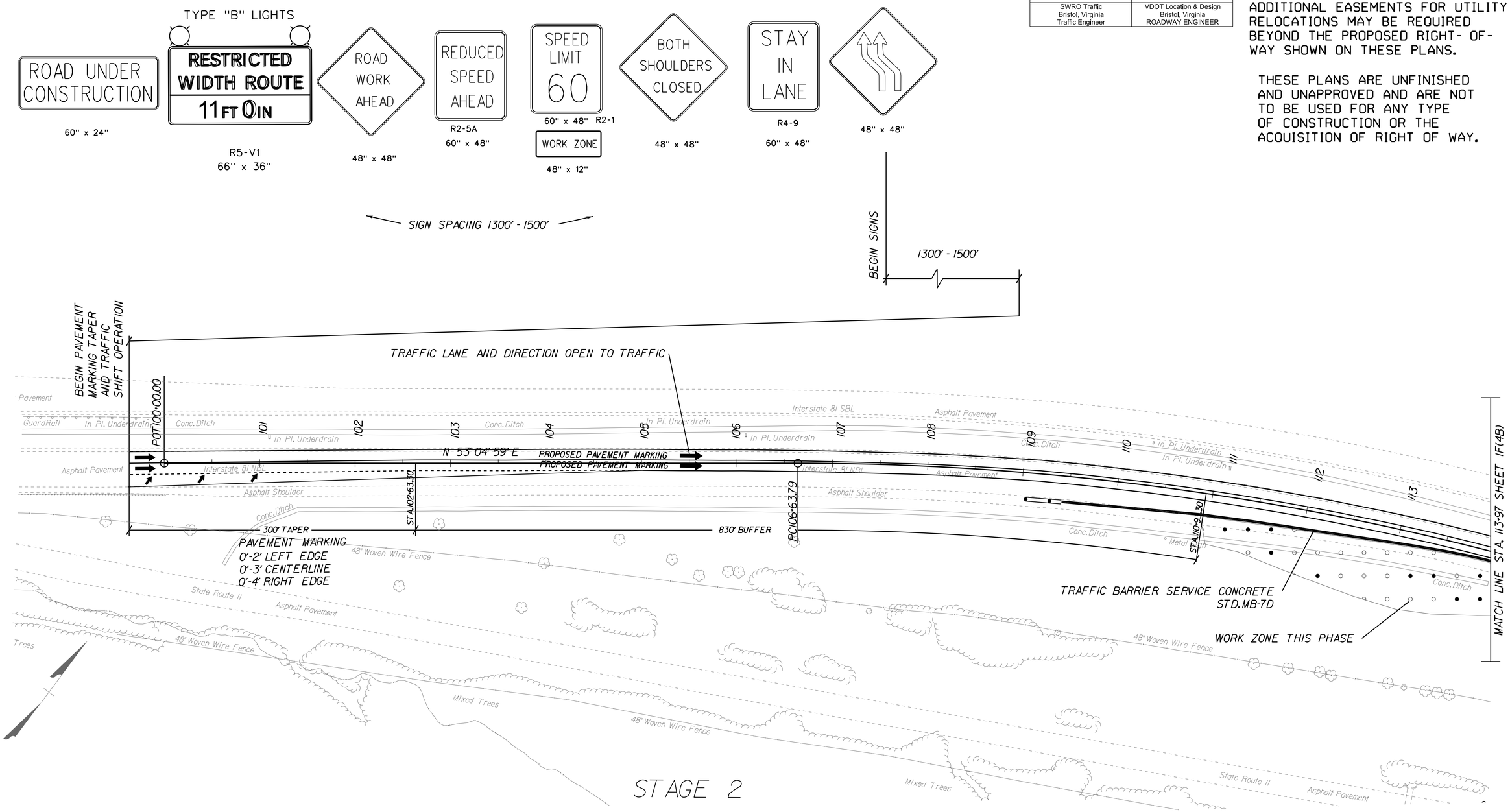
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(4A)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

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



STAGE 2

PROJECT	SHEET NO.
0081-086-830	1F(4A)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(4B)

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SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

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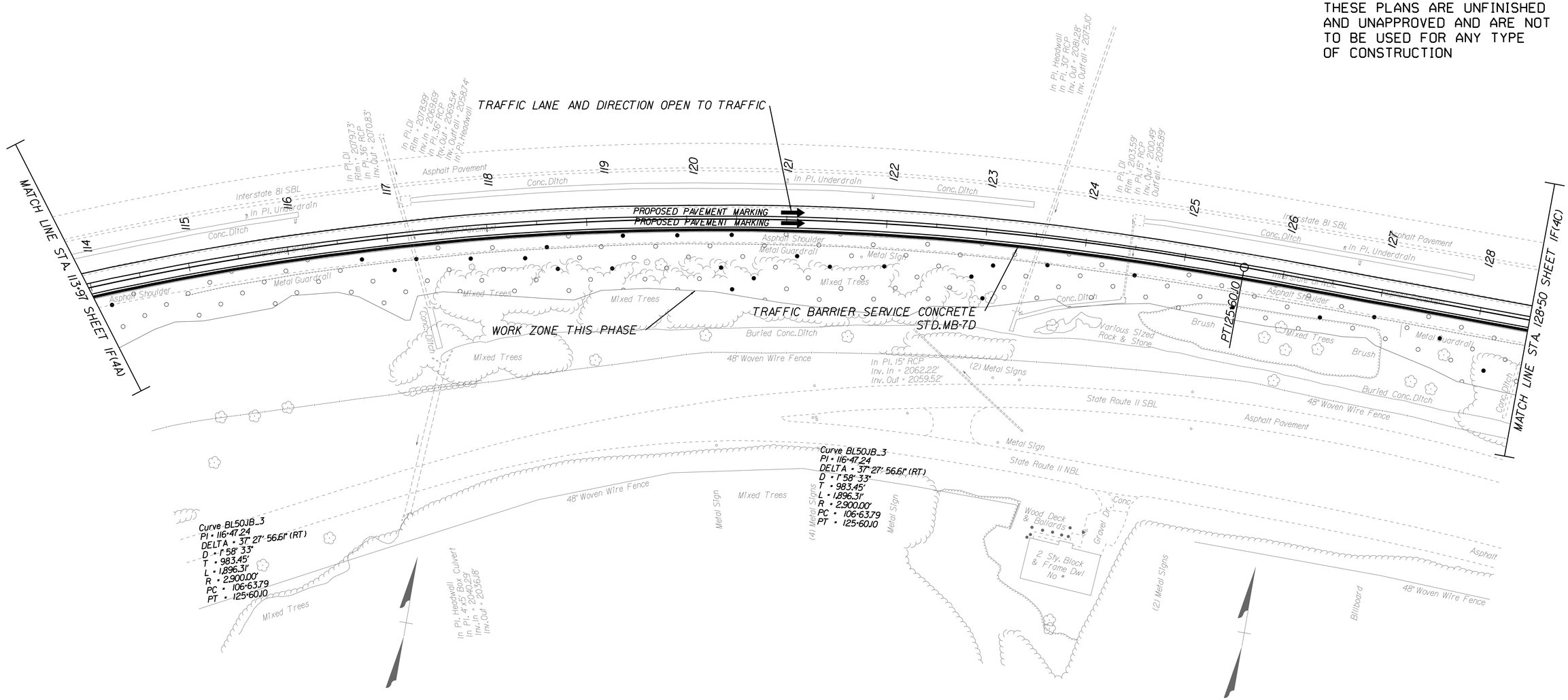

STAGE 2

PROJECT	SHEET NO.
0081-086-830	IF(4B)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(4C)

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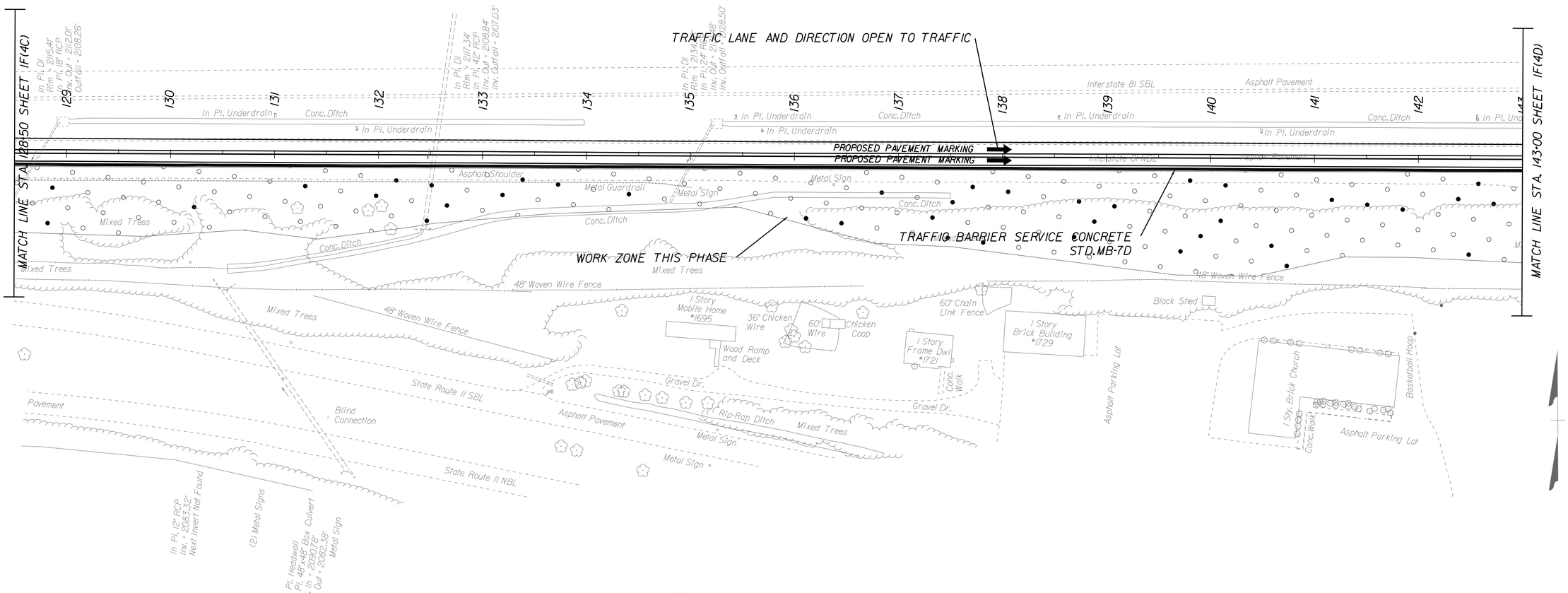

STAGE 2

PROJECT	SHEET NO.
0081-086-830	1F(4C)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

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SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(4D)

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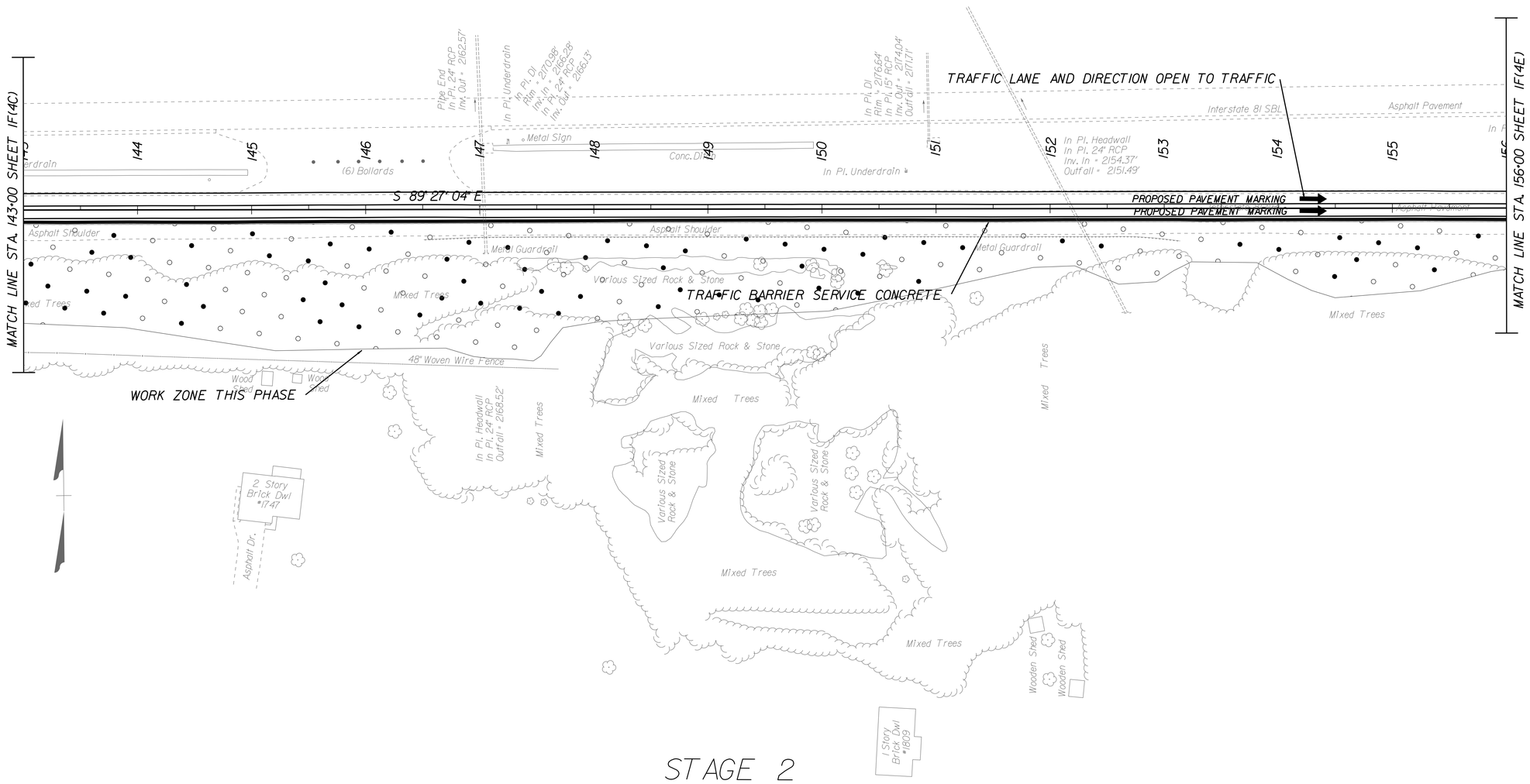

STAGE 2

PROJECT	SHEET NO.
0081-086-830	IF(4D)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
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DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(4E)

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SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

THESE PLANS ARE UNFI
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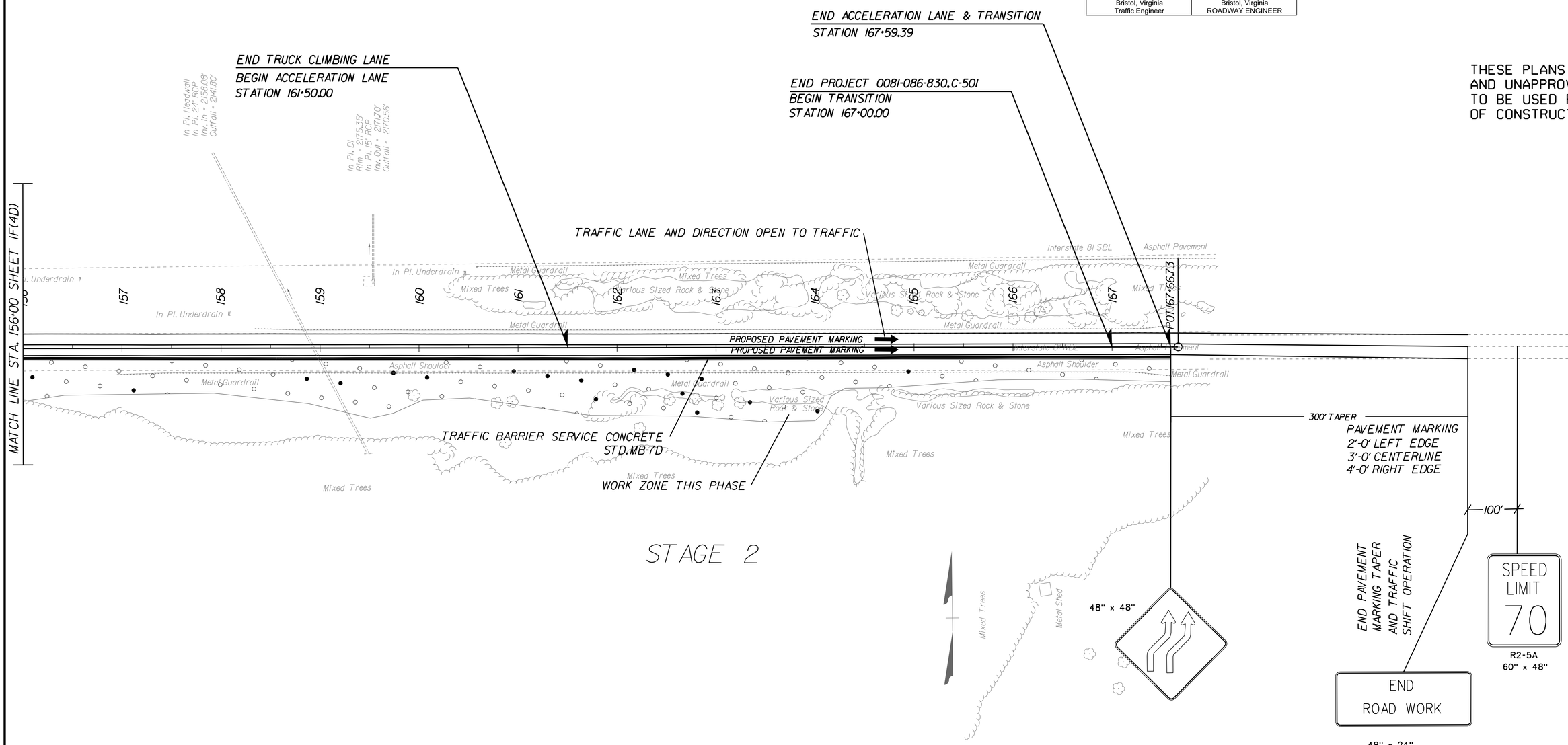

PROJECT	SHEET NO.
0081-086-830	IF(4E)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(5A)

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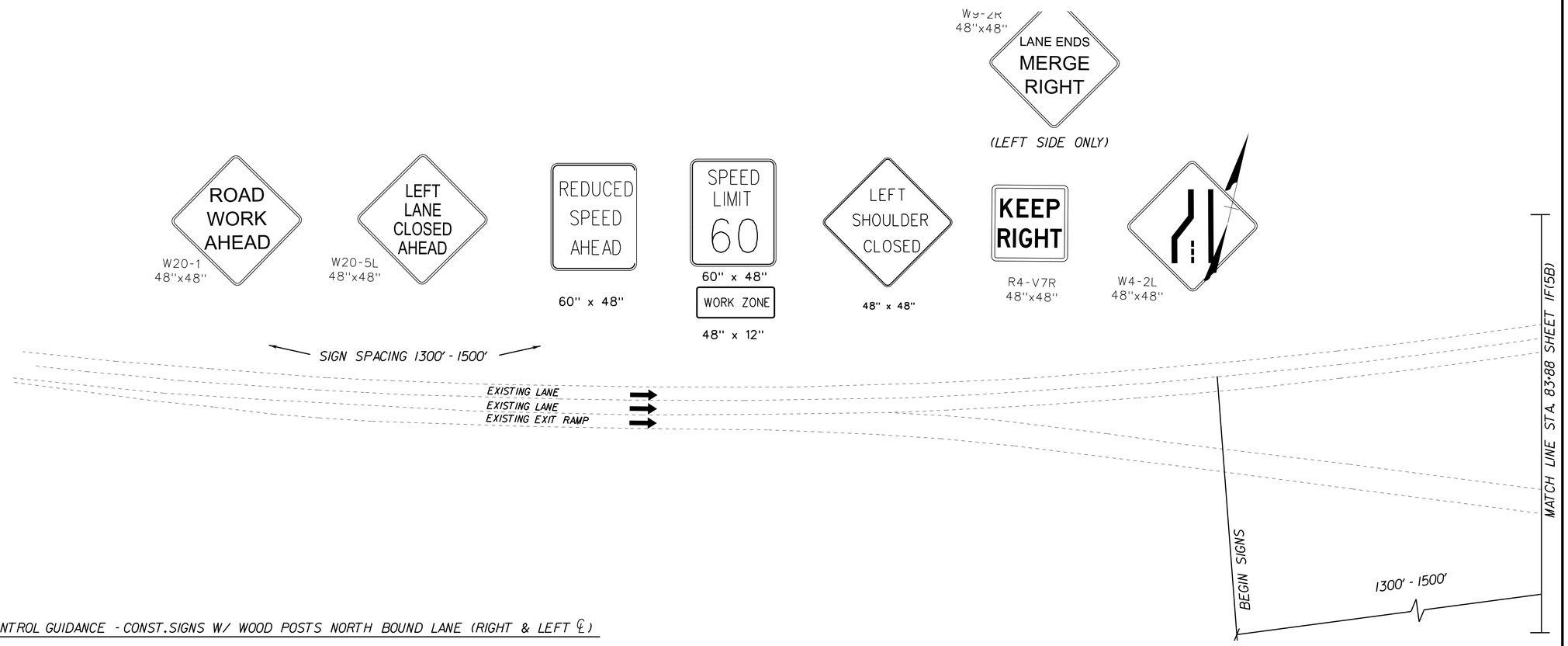

TRAFFIC CONTROL GUIDANCE - CONST.SIGNS W/ WOOD POSTS NORTH BOUND LANE (RIGHT & LEFT ℄)

STAGE 3

PROJECT	SHEET NO.
0081-086-830	1F(5A)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

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SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(5B)

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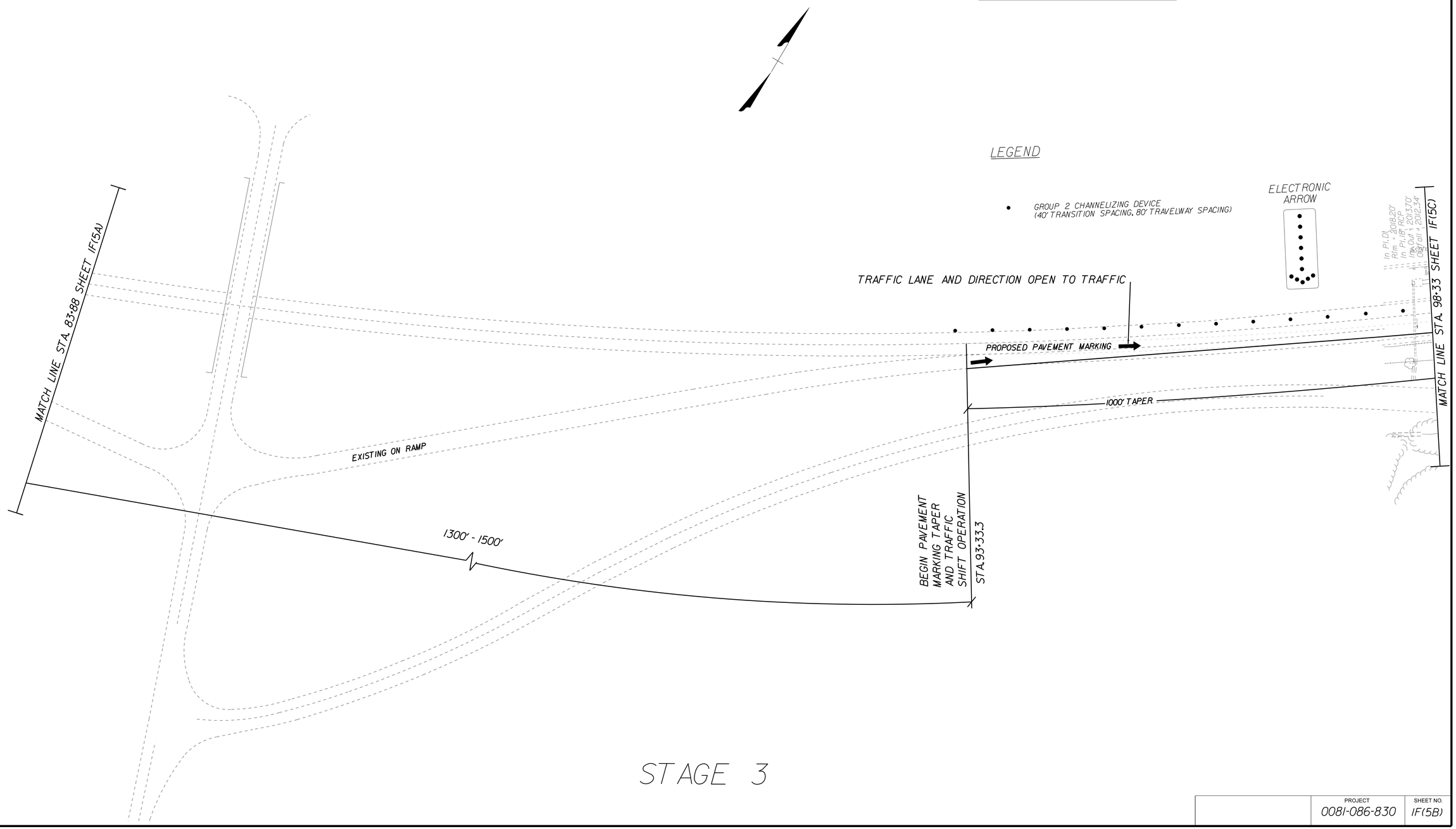
SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



STAGE 3

PROJECT	SHEET NO.
0081-086-830	1F(5B)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

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SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(5C)

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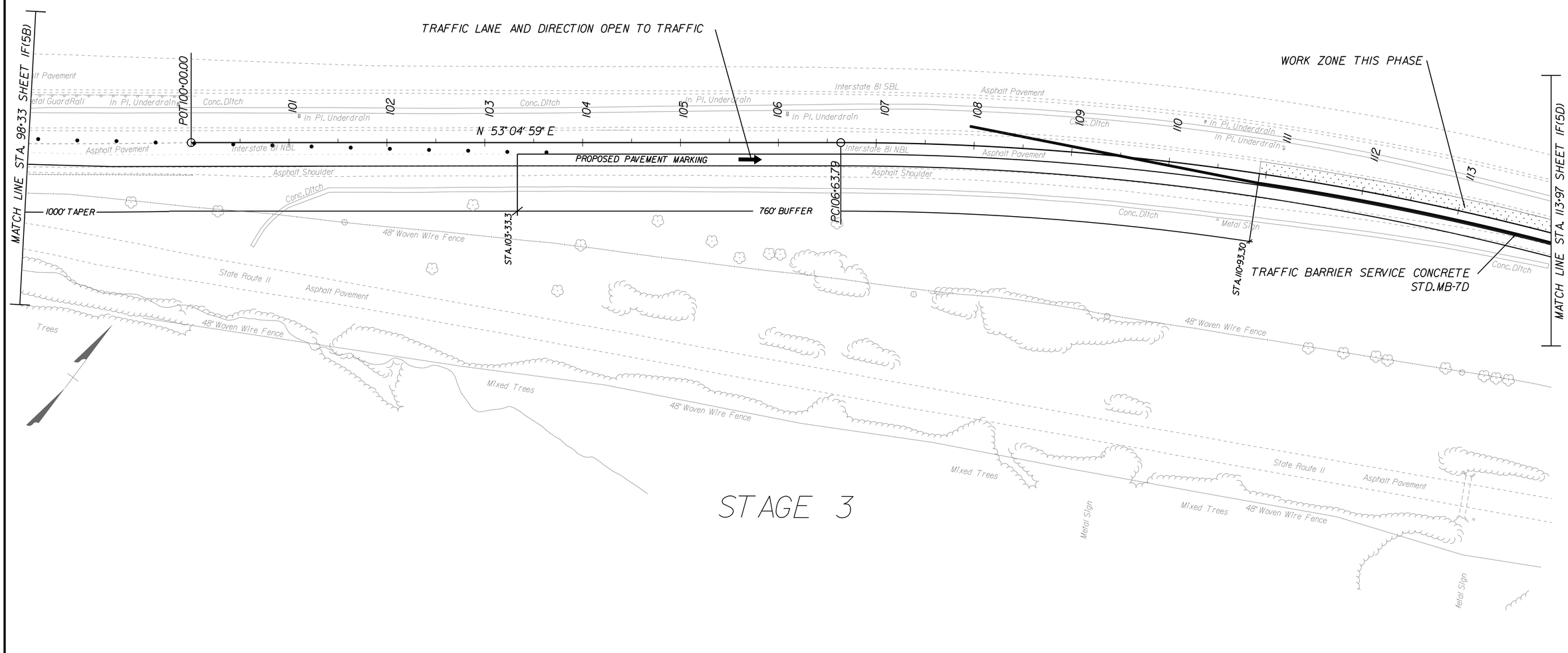

STAGE 3

PROJECT	SHEET NO.
0081-086-830	IF(5C)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(5D)

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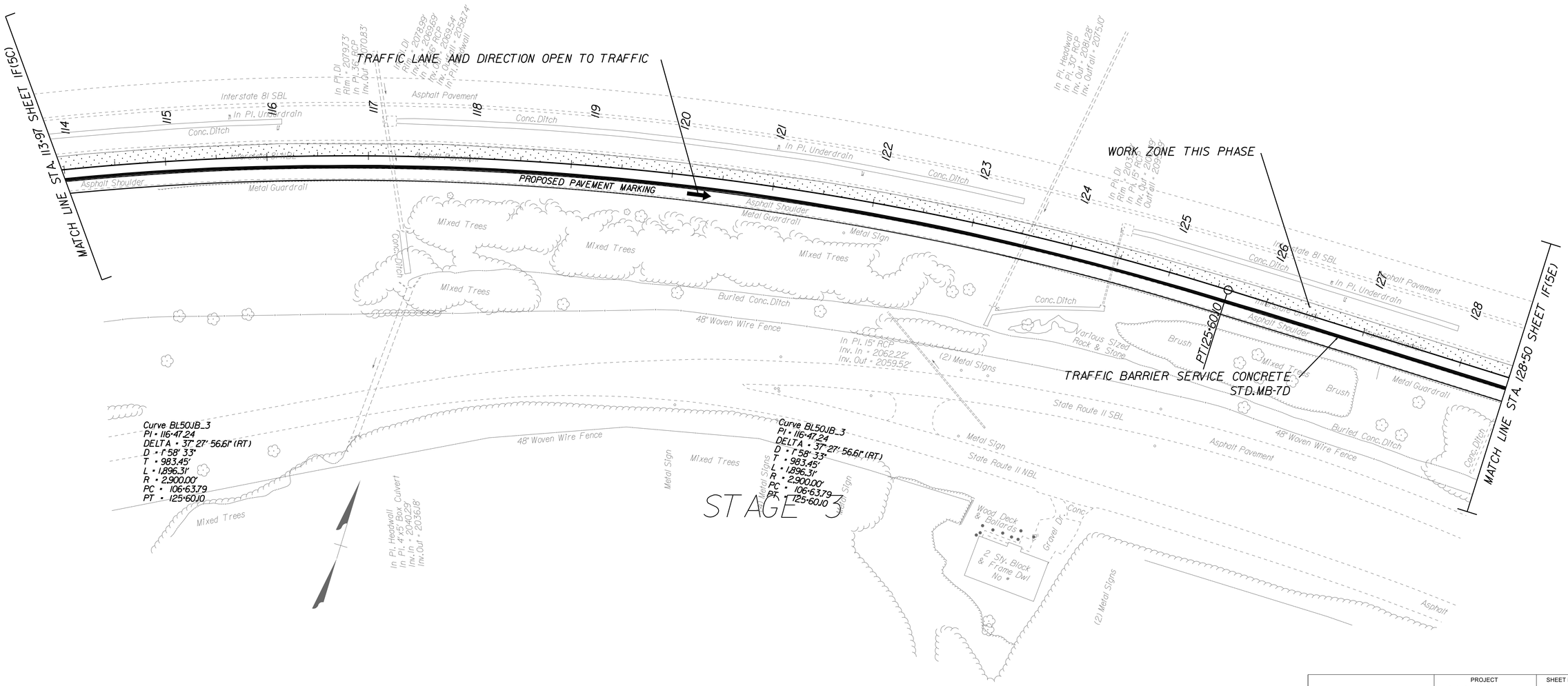

PROJECT	SHEET NO.
0081-086-830	1F(5D)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(5E)

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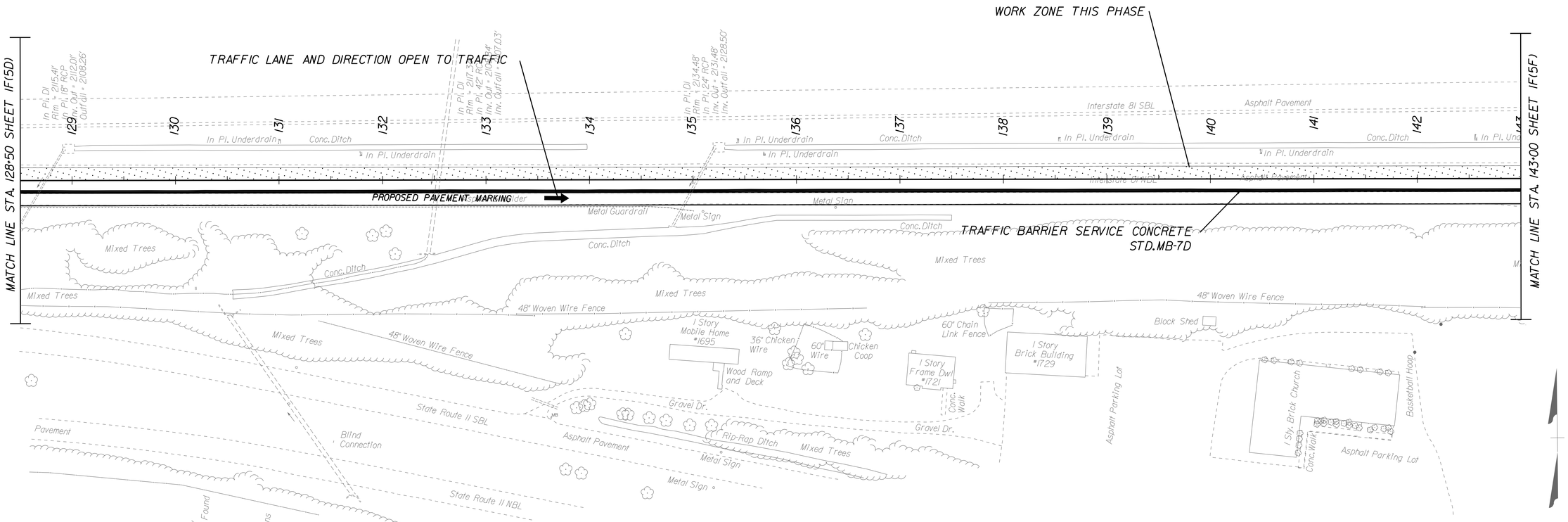

STAGE 3

PROJECT	SHEET NO.
0081-086-830	1F(5E)

PUBLIC HEARING

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	VA.	81	0081-086-830, RW-201 C-501	1F(5F)

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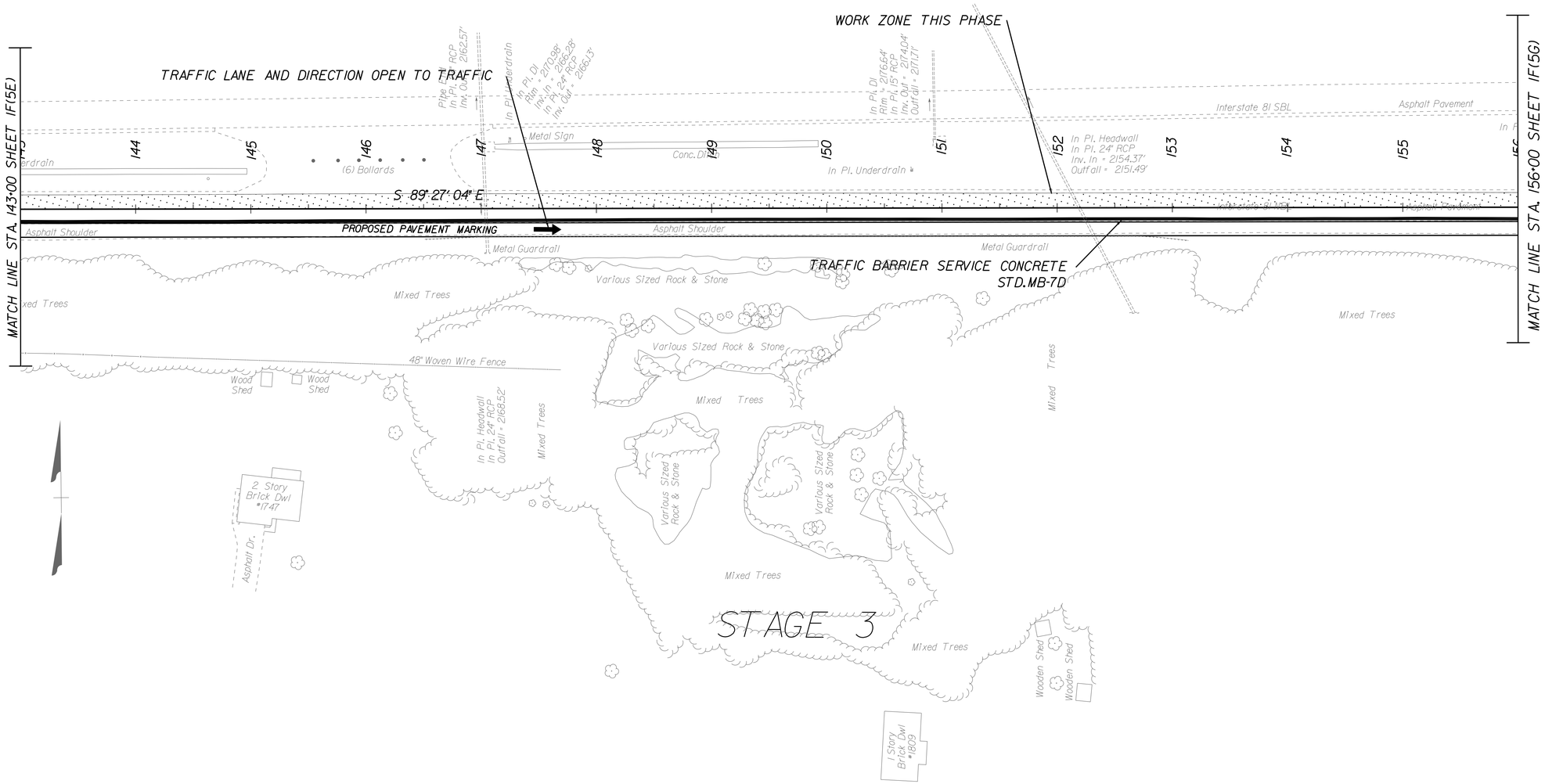

PROJECT	SHEET NO.
0081-086-830	1F(5F)

PUBLIC HEARING

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(5G)

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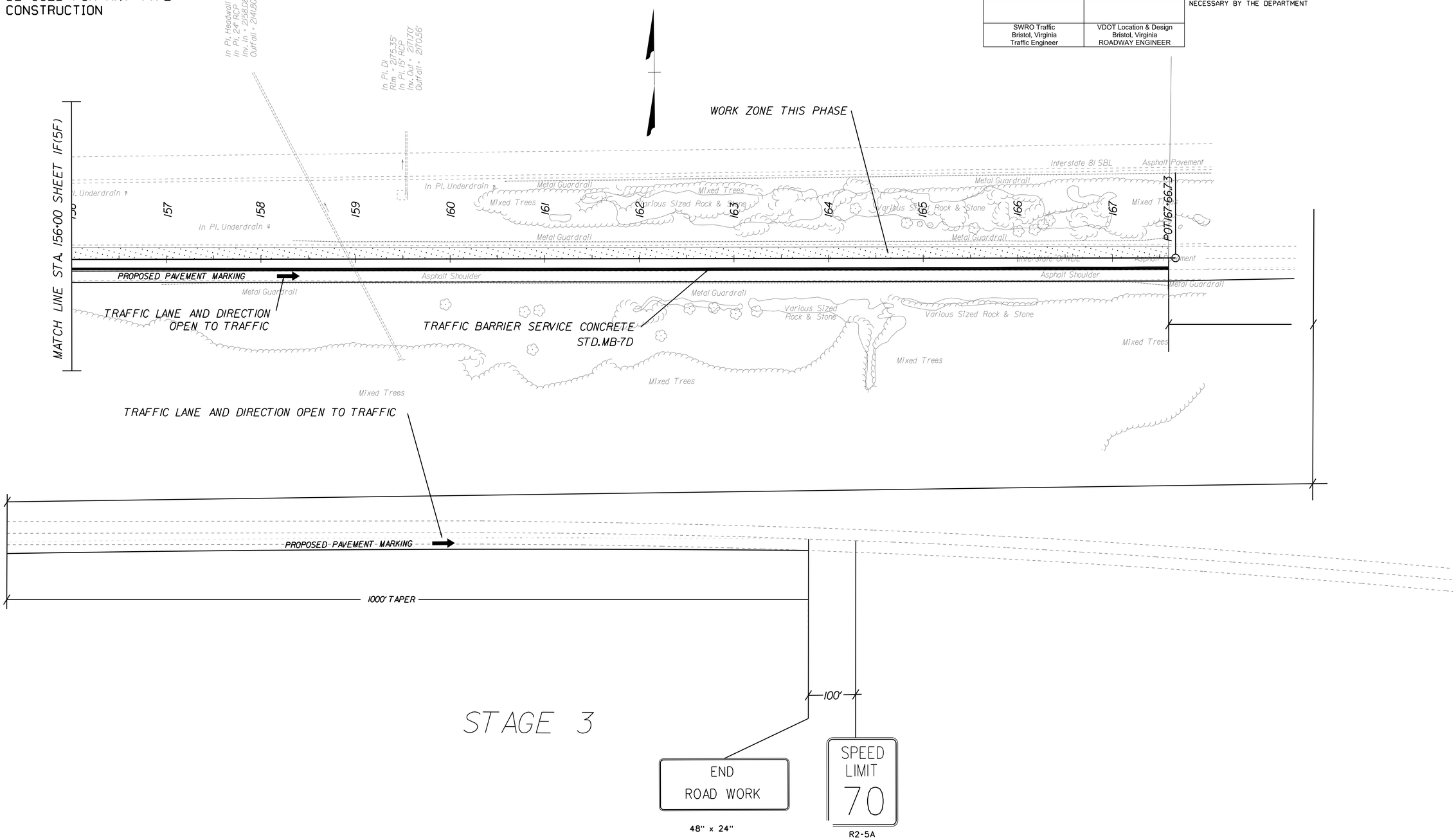

	PROJECT	SHEET NO.
	.	1F(5G)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

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BRISTOL DISTRICT DESIGN UNIT

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(6A)

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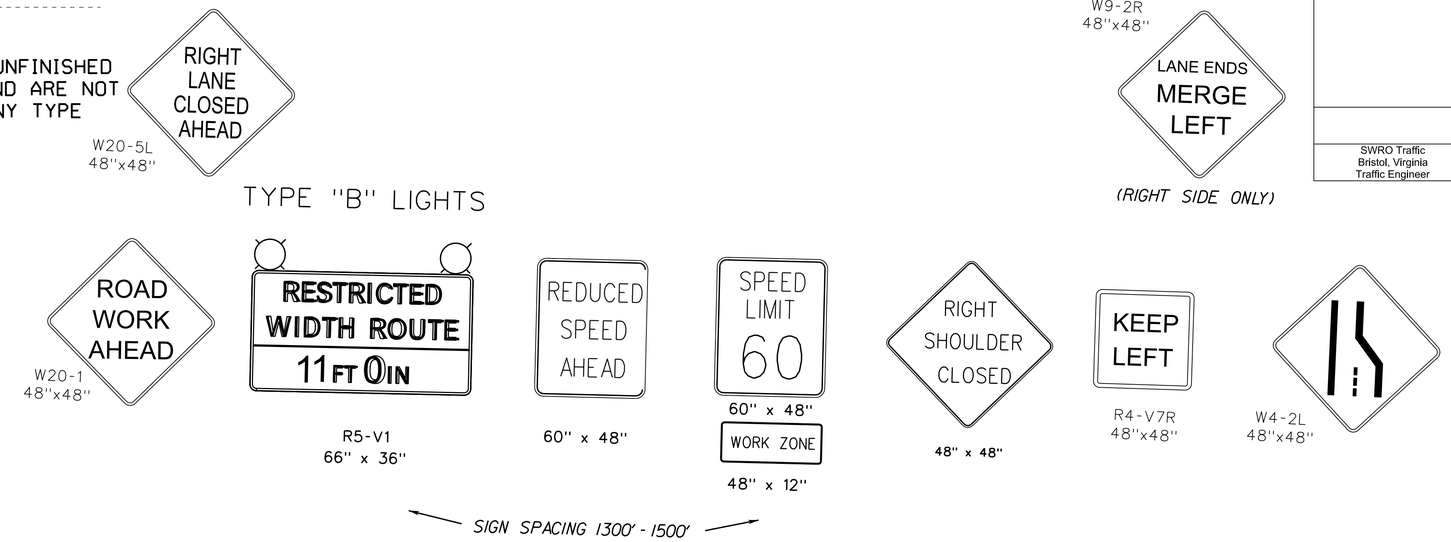

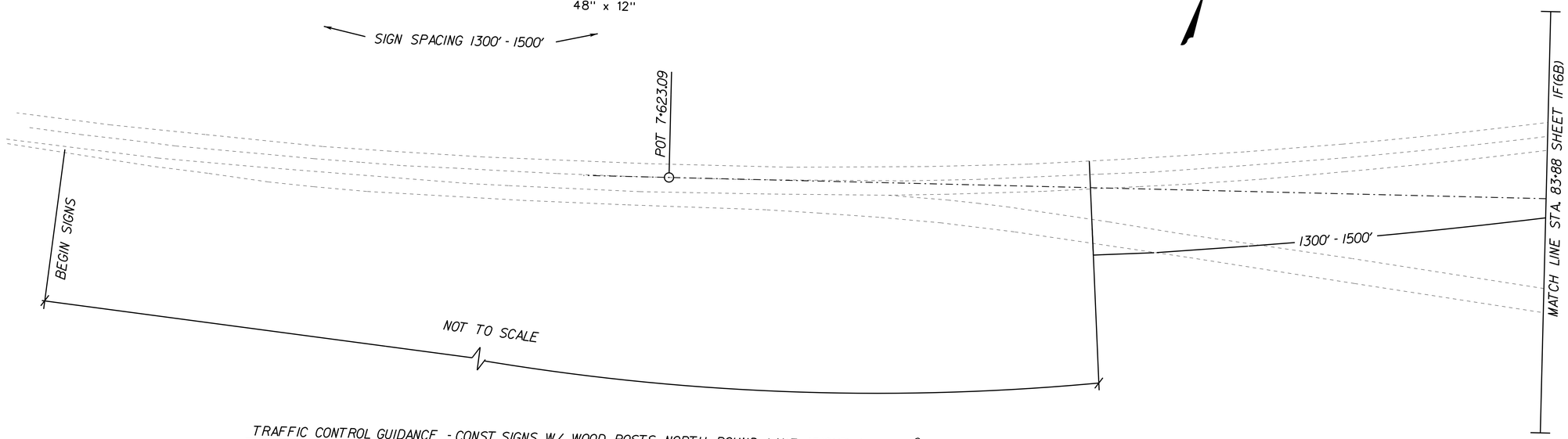

TRAFFIC CONTROL GUIDANCE - CONST. SIGNS W/ WOOD POSTS NORTH BOUND LANE (RIGHT & LEFT ℄ UNLESS NOTED)

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

STAGE 4

PROJECT	SHEET NO.
0081-086-830	1F(6A)

PUBLIC HEARING

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BRISTOL DISTRICT DESIGN UNIT

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SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(6B)

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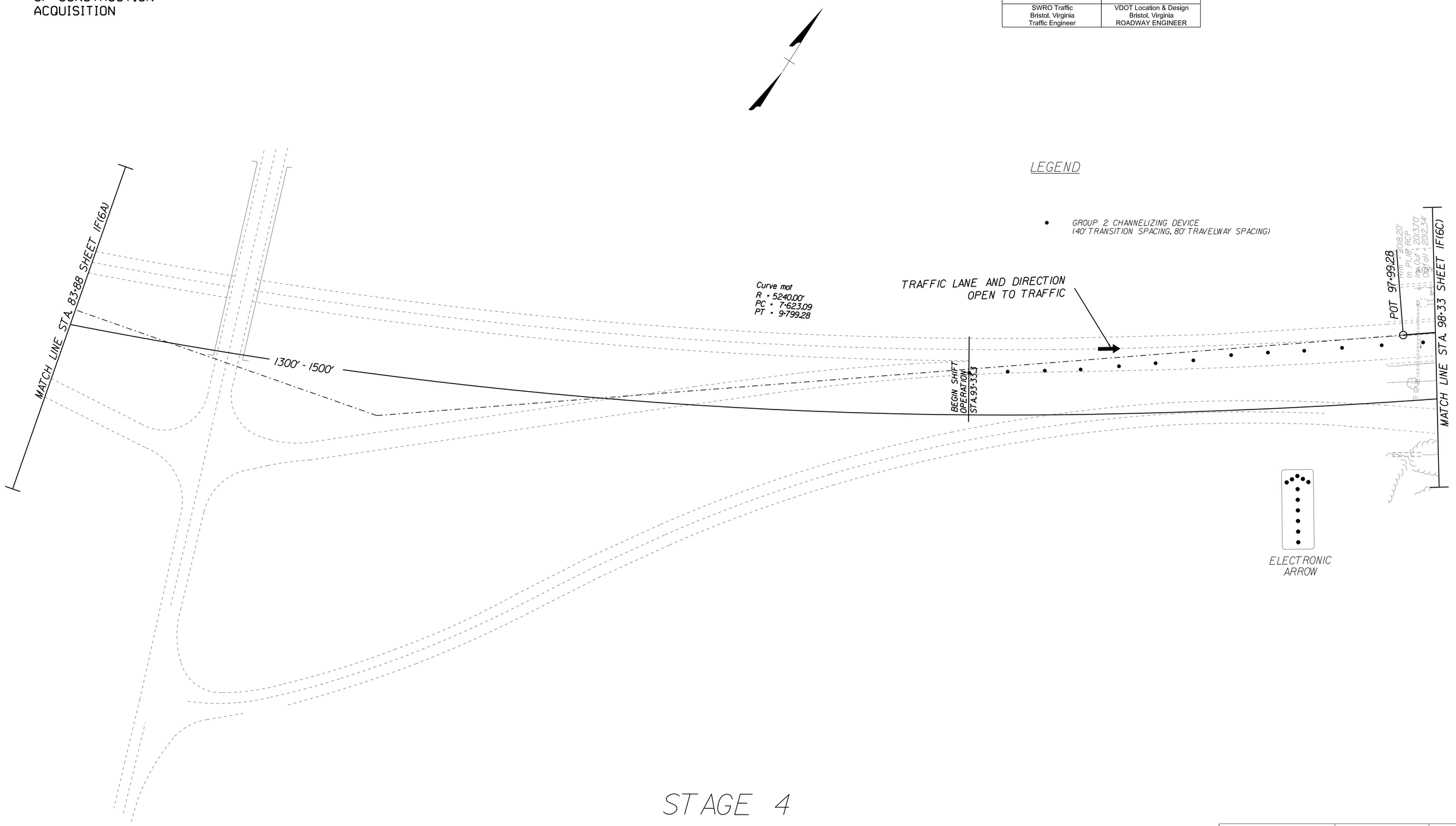
SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



STAGE 4

PROJECT	SHEET NO.
0081-086-830	IF(6B)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

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BRISTOL DISTRICT DESIGN UNIT

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SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(6C)

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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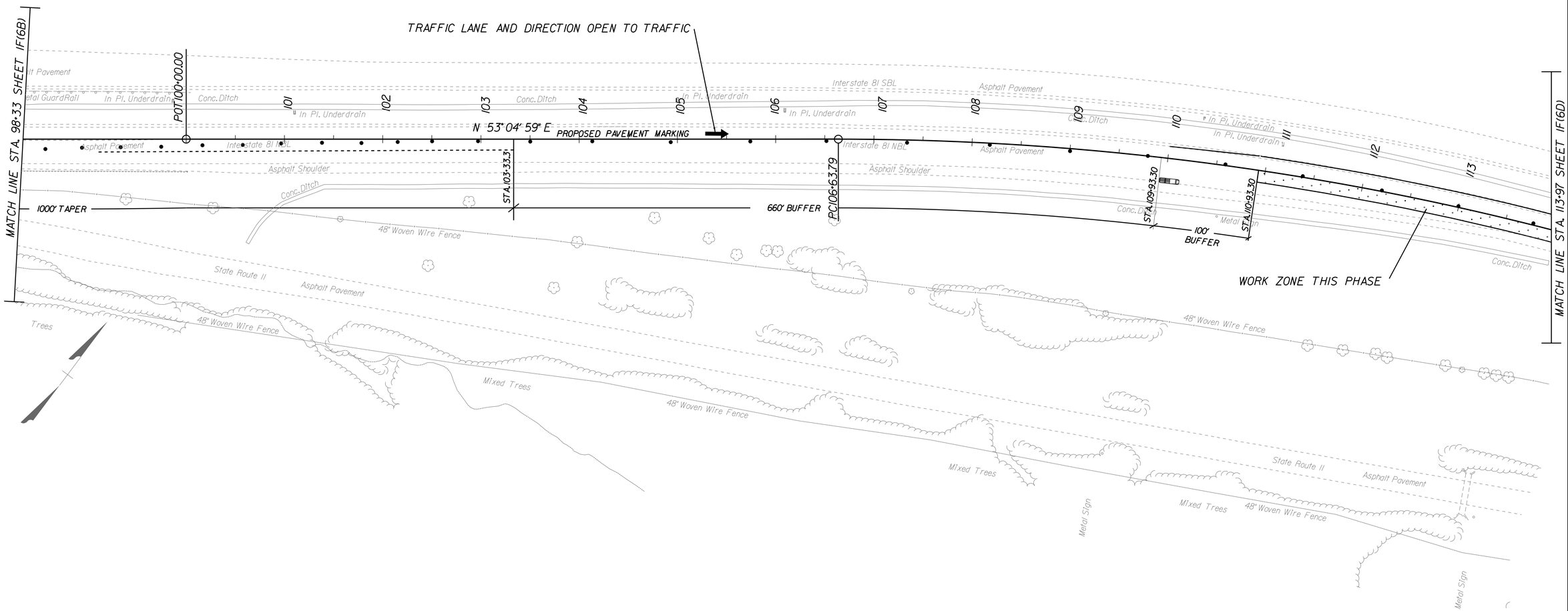
• GROUP 2 CHANNELIZING DEVICE (40' TRANSITION SPACING, 80' TRAVELWAY SPACING)



STAGE 4

PROJECT	SHEET NO.
0081-086-830	1F(6C)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(6D)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

LEGEND

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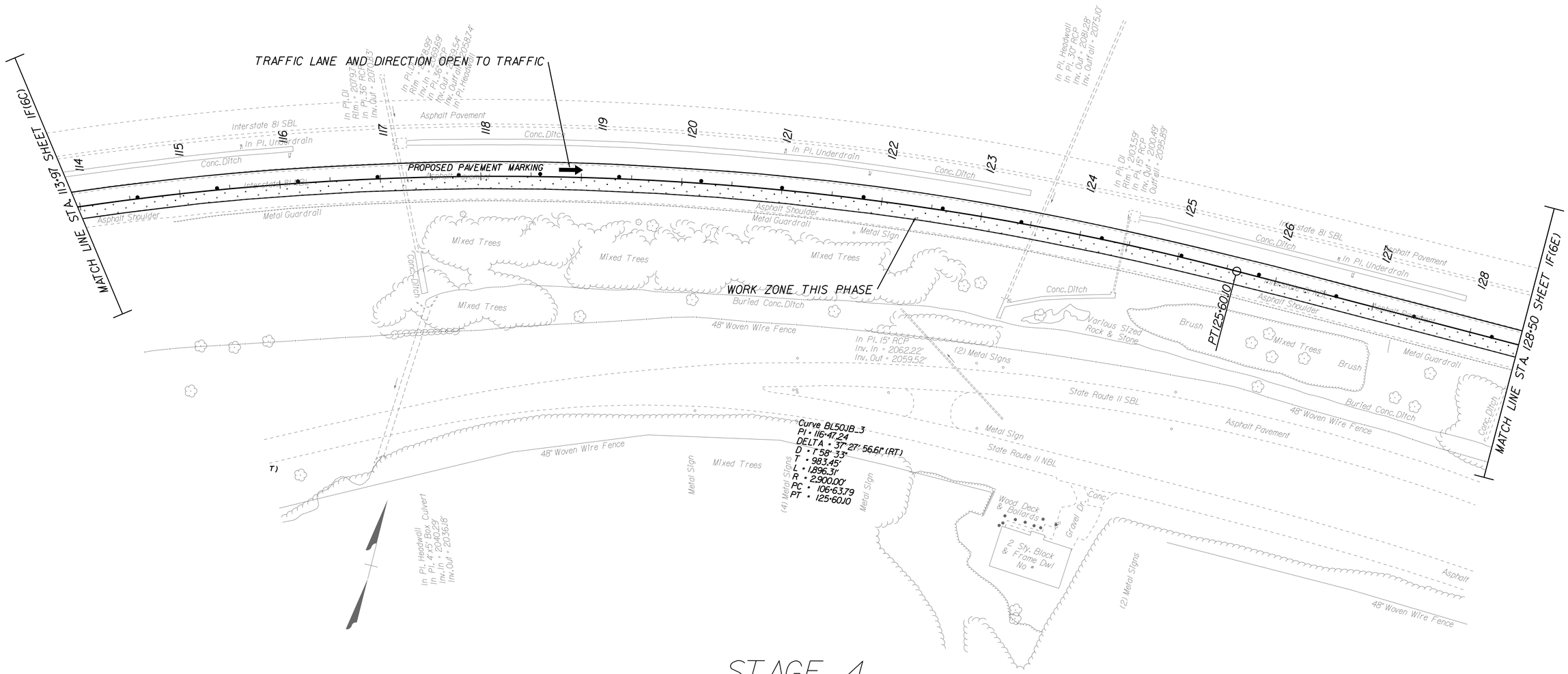

STAGE 4

PROJECT	SHEET NO.
0081-086-830	IF(6D)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

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BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES. JONES. 276:696:3257
SURVEYED BY, DATE WOOLPERT. 757:549:5346. 2020.
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SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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

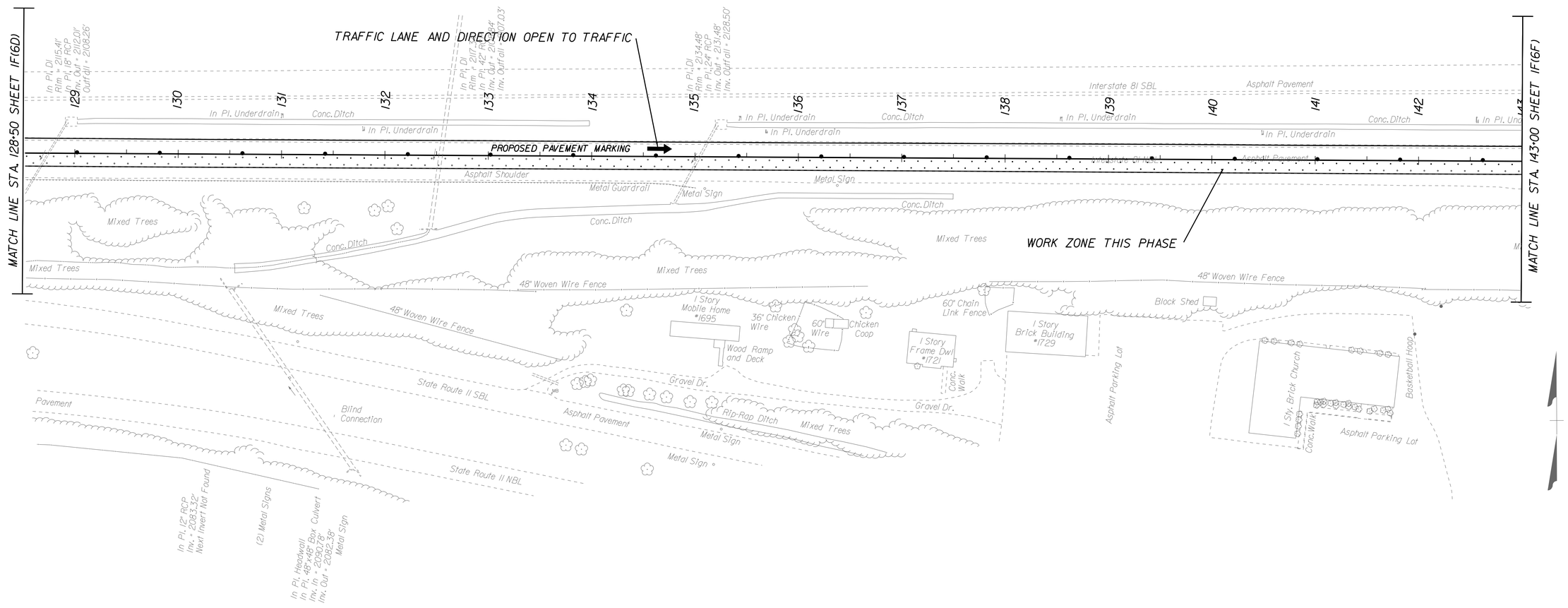
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(6E)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

LEGEND

• GROUP 2 CHANNELIZING DEVICE (40' TRANSITION SPACING, 80' TRAVELWAY SPACING)



STAGE 4

PROJECT	SHEET NO.
0081-086-830	1F(6E)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346, 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(6F)

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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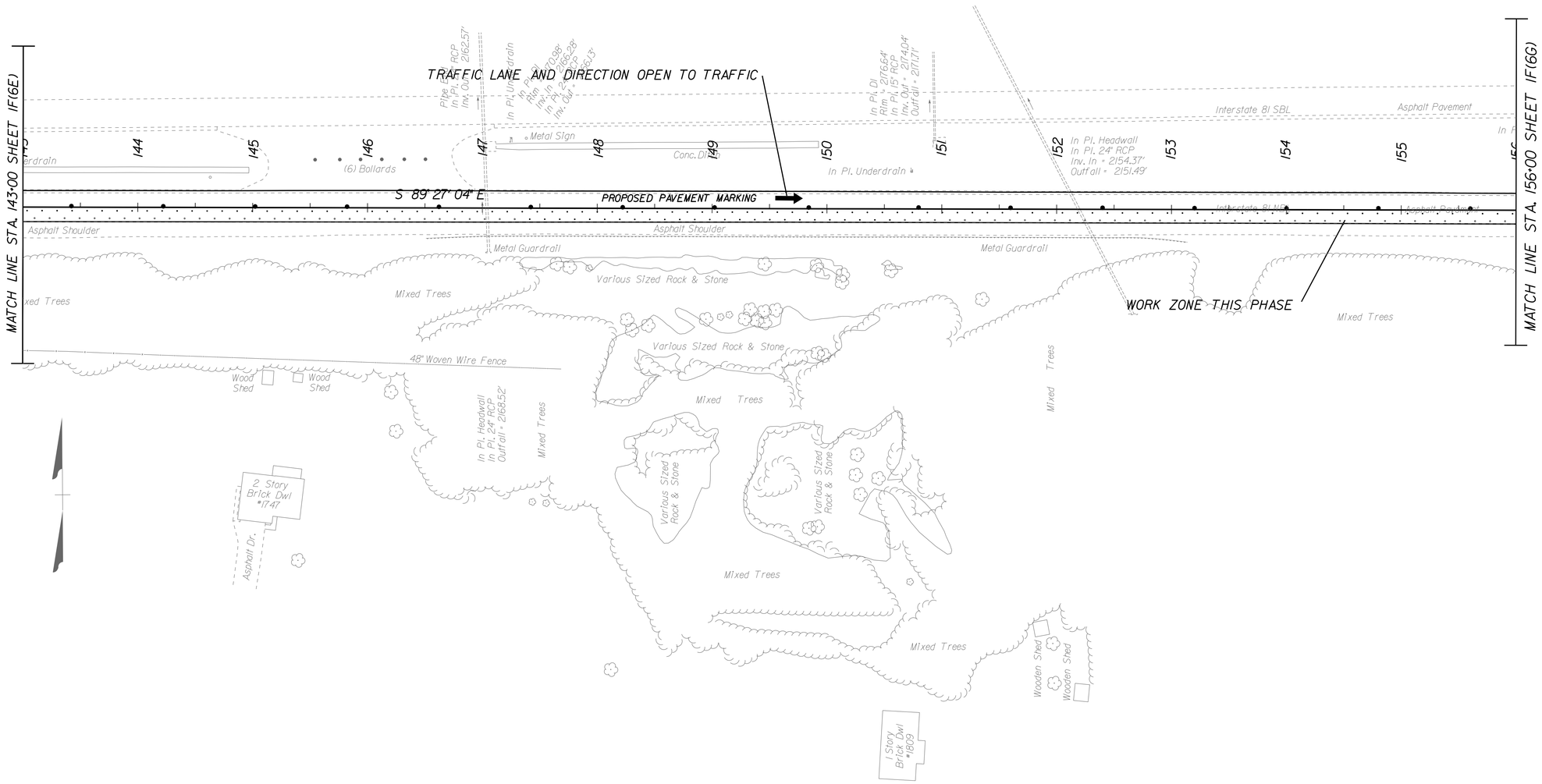

STAGE 4

PROJECT	SHEET NO.
0081-086-830	1F(6F)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES. JONES. 276:696:3257
SURVEYED BY, DATE WOOLPERT. 757:549:5346. 2020.
DESIGN BY James Bullins 276:696:3349
SUBSURFACE UTILITY BY, DATE

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(6G)

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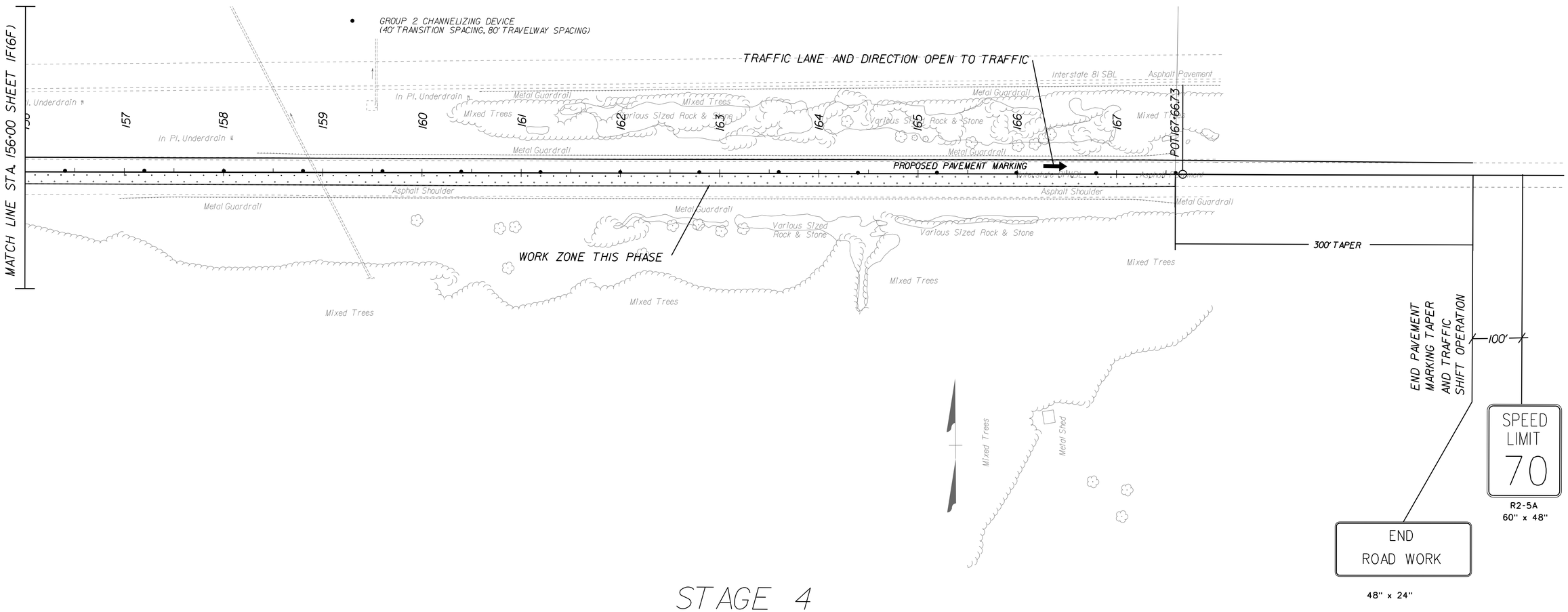
SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

LEGEND



STAGE 4

PROJECT	SHEET NO.
0081-086-830	1F(6G)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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SURVEYED BY, DATE WOOLPERT 757-549-5346, 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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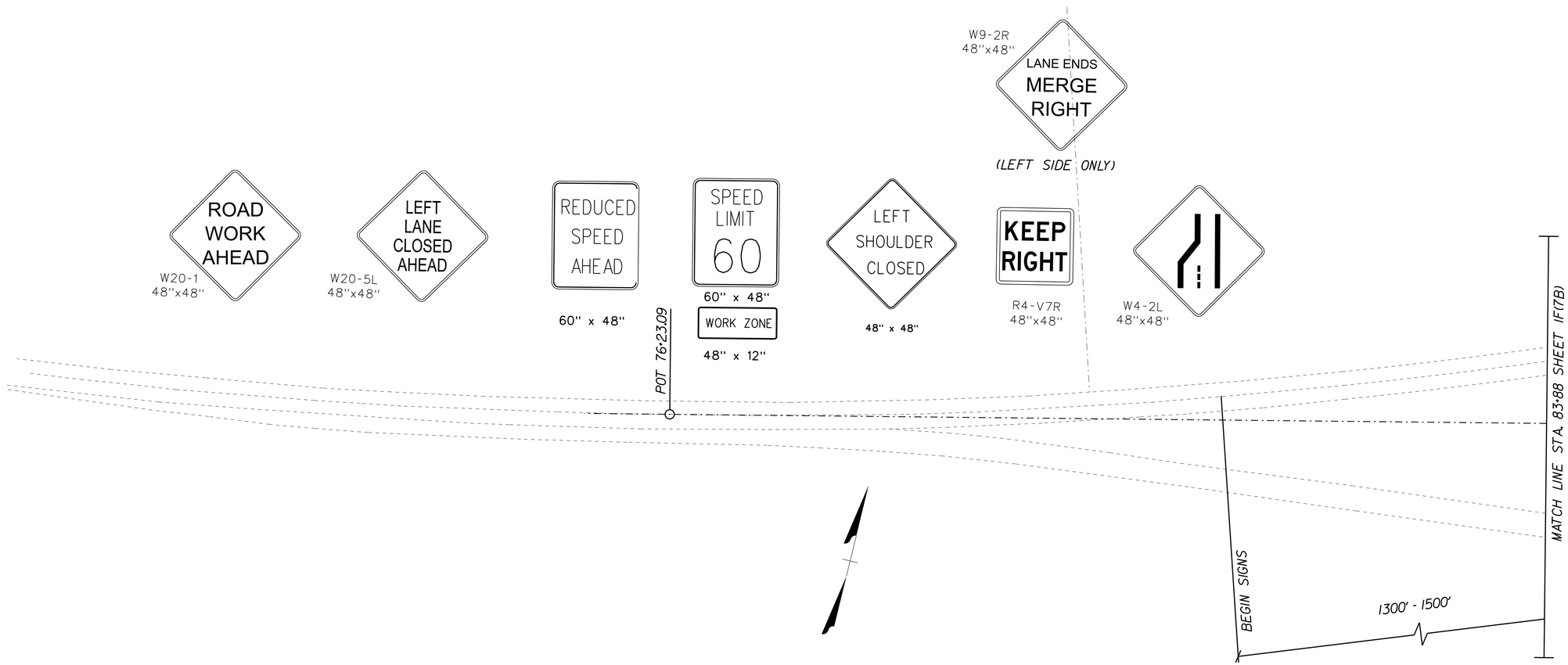
SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	1F(7A)

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



TRAFFIC CONTROL GUIDANCE - CONST. SIGNS W/ WOOD POSTS NORTH BOUND LANE (RIGHT & LEFT ℄ UNLESS NOTED)

STAGE 5

PROJECT	SHEET NO.
0081-086-830	1F(7A)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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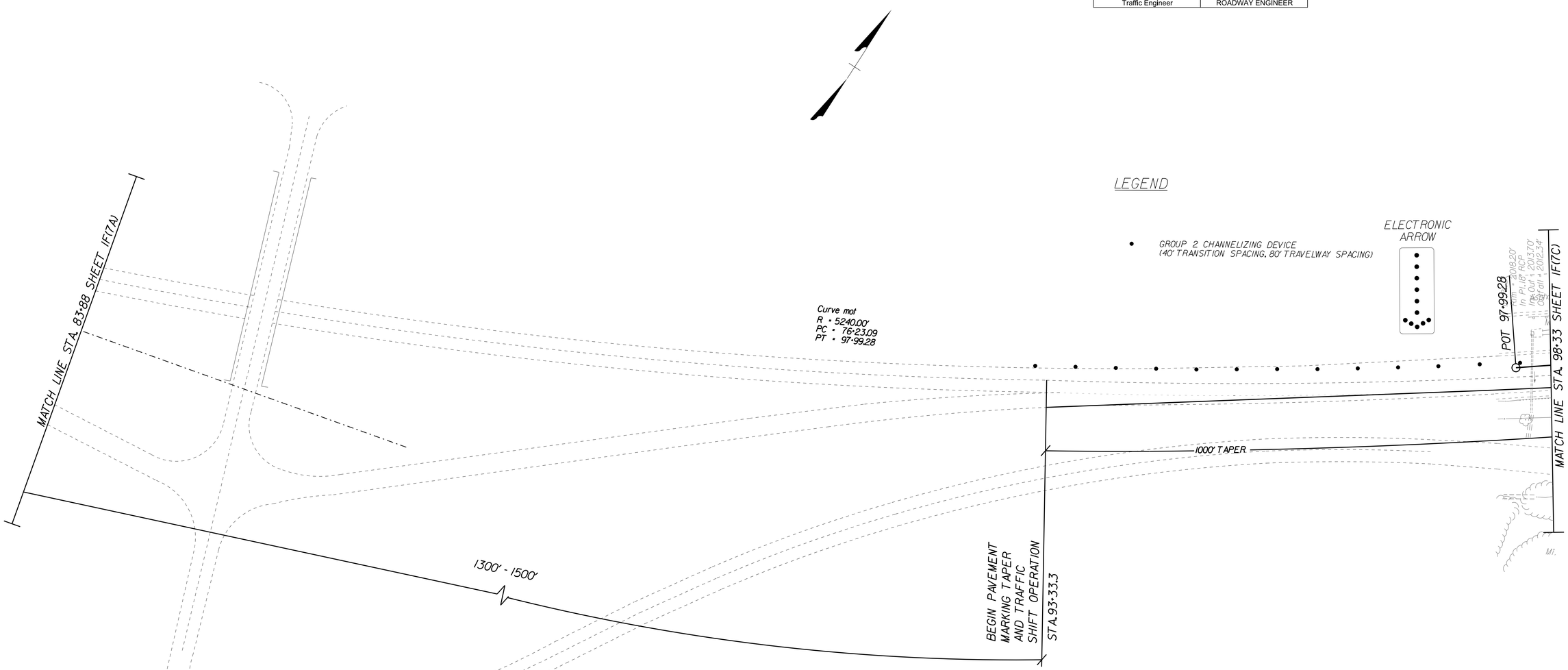
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(7B)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



STAGE 5

PROJECT	SHEET NO.
0081-086-830	IF(7B)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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SURVEYED BY, DATE WOOLPERT 757-549-5346, 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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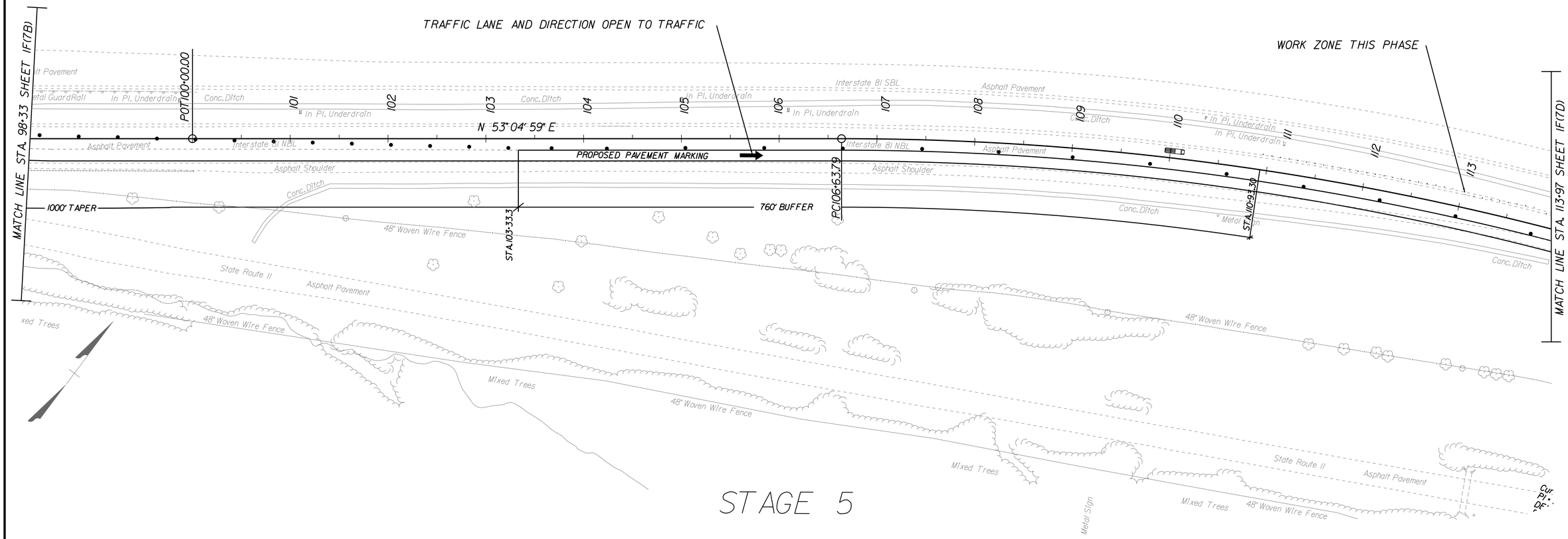
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(7C)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



STAGE 5

PROJECT	SHEET NO.
0081-086-830	IF(7C)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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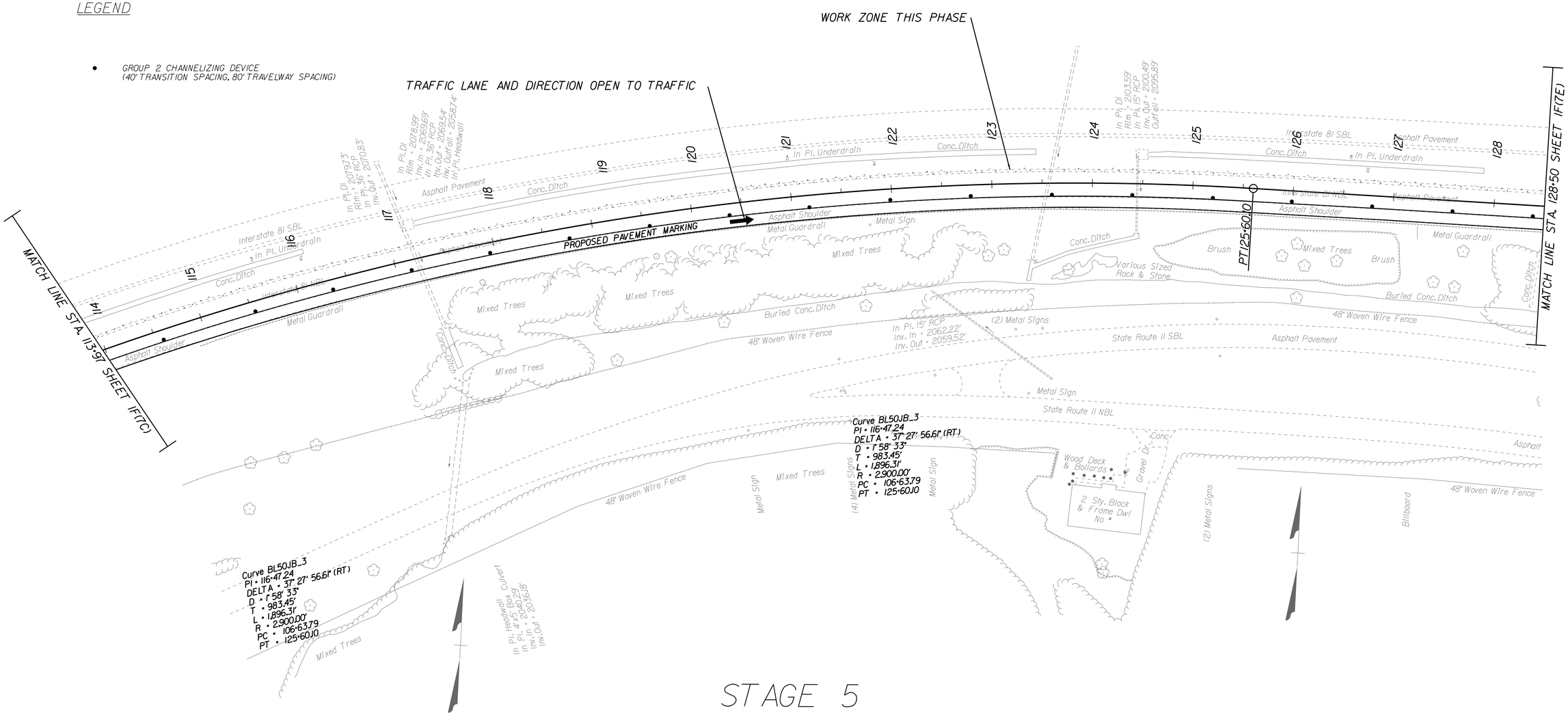
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(7D)

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

SWRO Traffic Bristol, Virginia Traffic Engineer	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

LEGEND

• GROUP 2 CHANNELIZING DEVICE (40' TRANSITION SPACING, 80' TRAVELWAY SPACING)



STAGE 5

PROJECT	SHEET NO.
0081-086-830	IF(7D)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

SEQUENCE OF CONSTRUCTION & TEMPORARY TRAFFIC CONTROL

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	IF(7E)

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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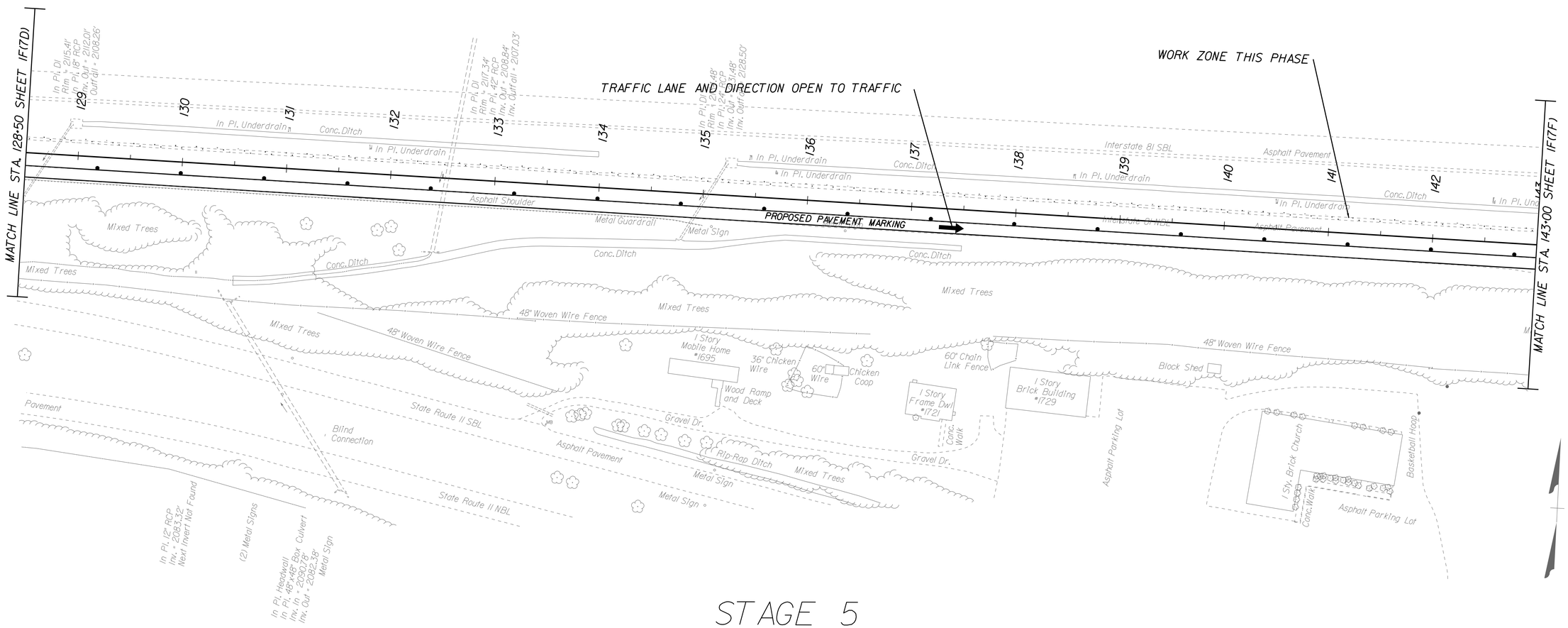

STAGE 5

PROJECT	SHEET NO.
0081-086-830	IF(7E)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

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	VA.	81	0081-086-830, RW-201 C-501	1F(7F)

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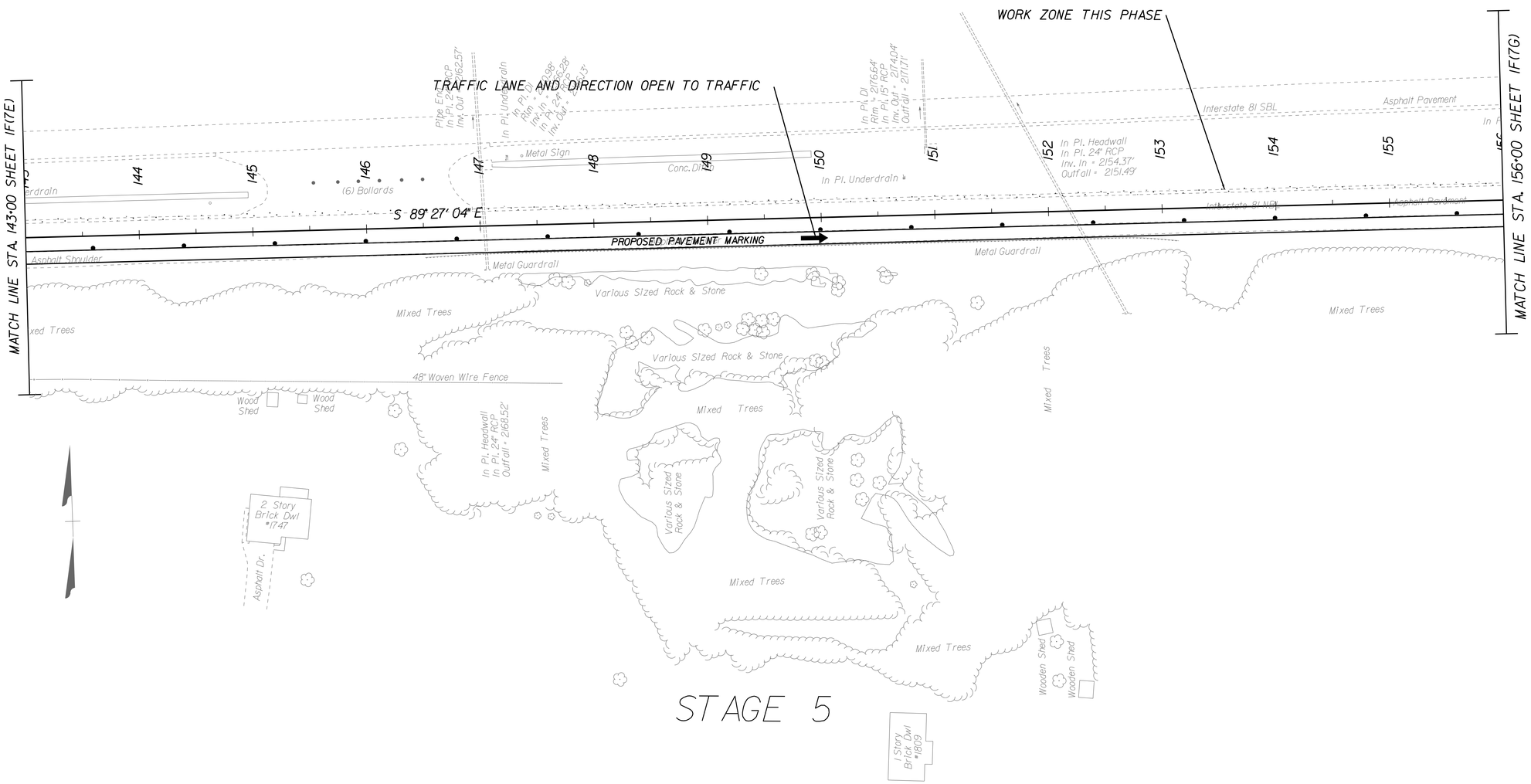

STAGE 5

PROJECT	SHEET NO.
0081-086-830	1F(7F)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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	VA.	81	0081-086-830, RW-201 C-501	1F(7G)

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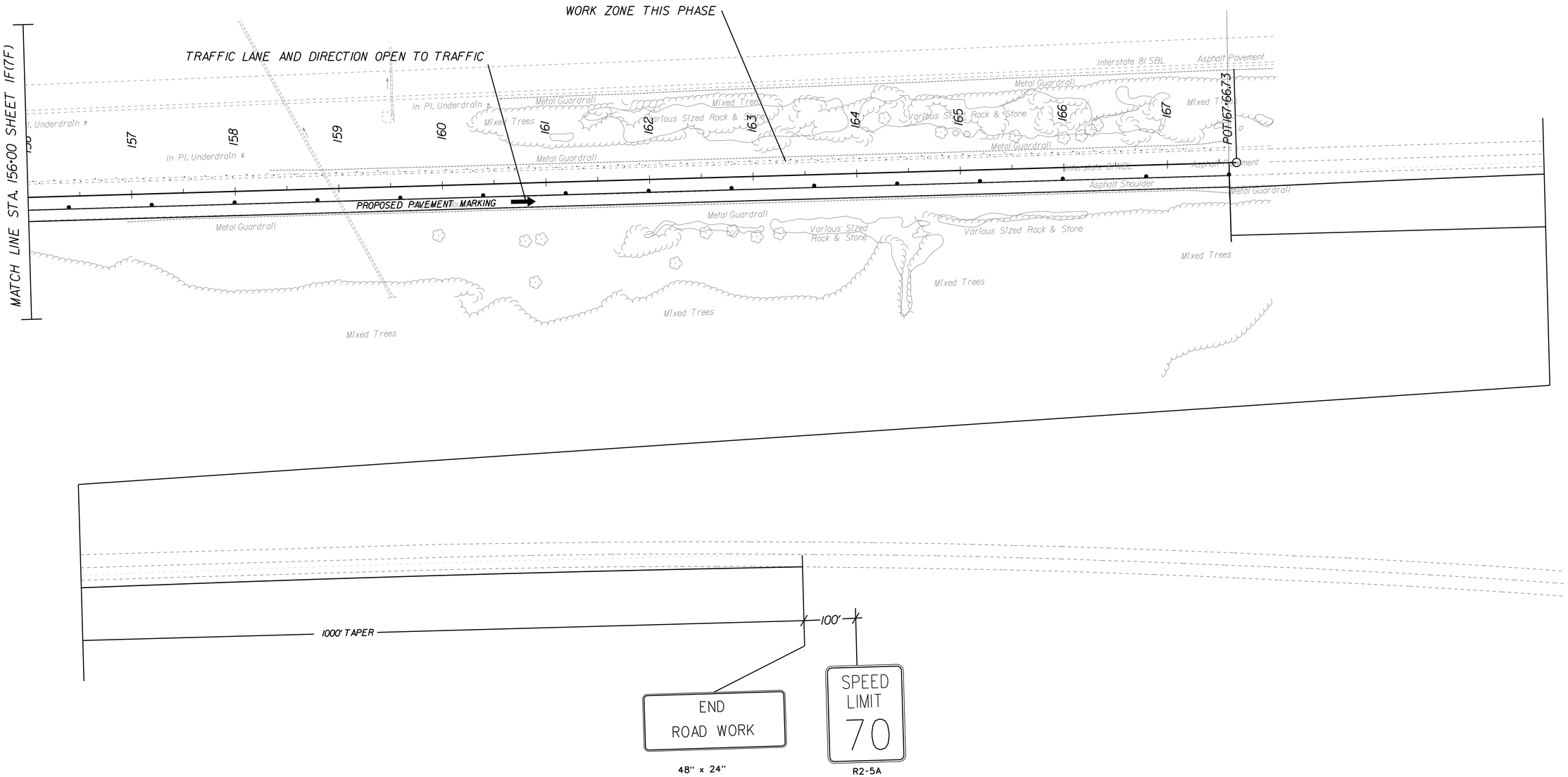


STAGE 5

PROJECT	SHEET NO.
0081-086-830	1F(7G)

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

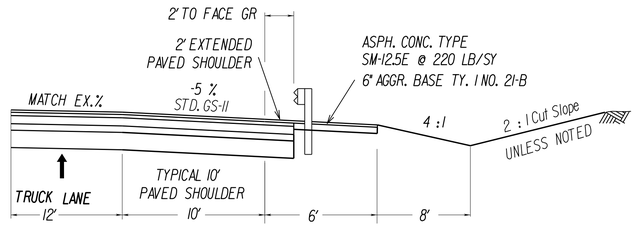
PROJECT MANAGER James Jones 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

NOTE: SEE PLAN SHEETS AND SUMMARY FOR GUARDRAIL LOCATIONS.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	2A

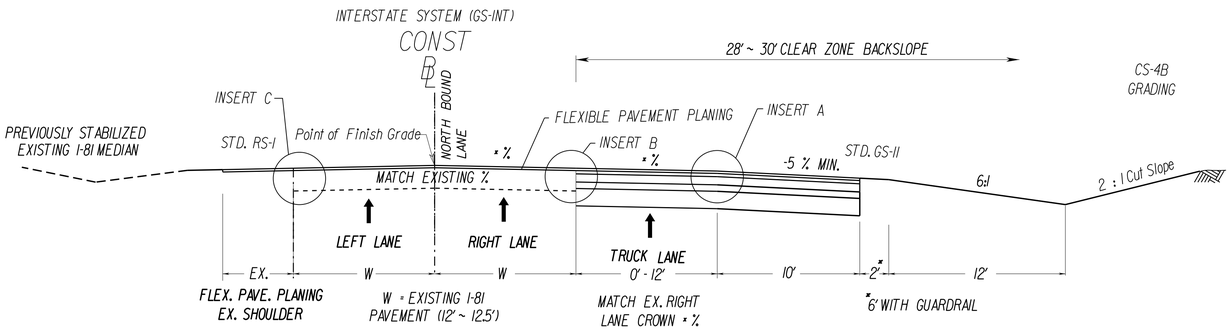
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT MATERIALS Bristol, Virginia MATERIALS ENGINEER	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER



CUT SECTION DETAIL

STATION	TO	STATION	REMARKS
124+75		126+75	DITCH DETAILS
146+25		152+00	DITCH DETAILS
153+75		156+25	DITCH DETAILS
154+00		156+00	CUT SLOPE 1 1/2 :1



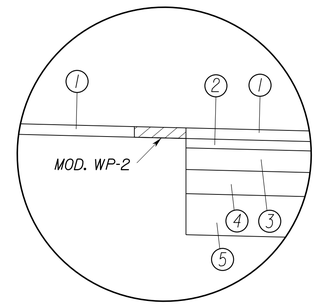
TYPICAL SECTION

STATION	TO	STATION	REMARKS
110+93.30		111+00.00	TRANSITION & TRUCK TAPER LANE
111+00.00		113+70.66	TRUCK TAPER LANE
113+70.66		161+50.00	TRUCK CLIMBING LANE
161+50.00		167+00.00	TRUCK ACCELERATION LANE
167+00.00		167+59.39	TRANSITION & TRUCK ACCEL. LANE

NOTE:
FOR AREAS WHERE SUBBASE NOT DAYLIGHTED SEE MATERIAL REPORT & PLANS FOR DETAILS & LOCATIONS REQUIRING STD. UD-4 UNDERDRAIN

PUBLIC HEARING

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

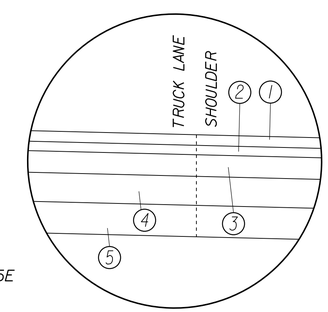


INSERT B

NOTE:
VDOT MOD. WP-2 SHALL BE USED WHERE NEW FULL DEPTH PAVEMENT WIDENING MEETS EXISTING PAVEMENT.

1. SURFACE — ASPHALT CONCRETE TYPE SM-12.5E @ 220 LBS. PER SQ. YD.
2. INTERMEDIATE — ASPHALT CONCRETE INTERMEDIATE COURSE IM-19.0E @ 230 LBS. PER SQ YD
3. BASE — 10" ASPHALT CONCRETE BASE COURSE BM-25.0A
4. SUBBASE — 8" AGGREGATE BASE MATERIAL TYPE I NO. 21-B
5. SUBBASE — 2" AGGREGATE BASE MATERIAL TYPE I NO. 21-B LEVELING COURSE 12" AGGREGATE MATERIAL No I (total depth 12")

INSERT A



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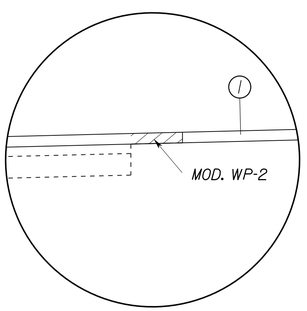
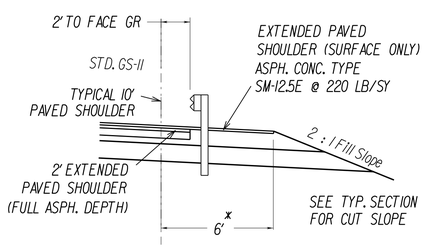


INSERT C

1. SURFACE — ASPHALT CONCRETE TYPE SM-12.5E @ 220 LBS. PER SQ. YD.

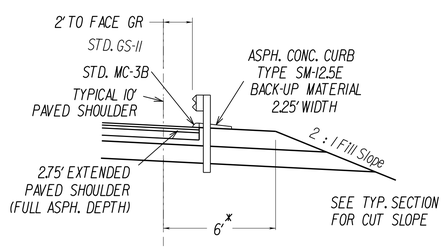
NOTE:
VDOT MOD. WP-2 SHALL BE USED WHERE NEW FULL DEPTH PAVEMENT WIDENING MEETS EXISTING PAVEMENT.



ASPHALT PAVING UNDER GUARDRAIL, MC-4 DETAIL

SEE CROSS SECTIONS & ROAD & BRIDGE STD. FOR DETAILS

STATION	TO	STATION
115+00		115+50
125+00		126+90
136+00		136+13
146+50		152+00
153+50		156+25
160+25		167+59



GUARDRAIL, MC-3B, & BACK-UP MATERIAL DETAIL

SEE CROSS SECTIONS & ROAD & BRIDGE STD. FOR DETAILS

STATION	TO	STATION
115+50		125+00
126+90		136+00
152+00		153+50
156+25		160+25

NOT TO SCALE

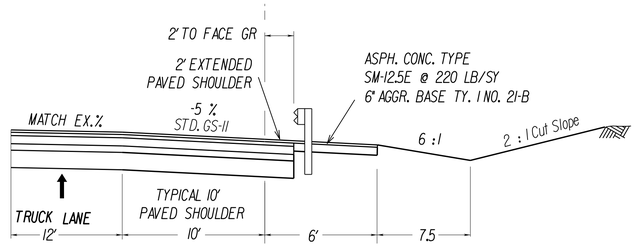
PROJECT	SHEET NO.
0081-086-830	2A

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

NOT TO SCALE



CUT SECTION DETAIL

STATION	TO	STATION	REMARKS
160+50		163+75	CUT SLOPE W/ REDUCED DITCH

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	2B

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VDOT MATERIALS Bristol, Virginia MATERIALS ENGINEER	VDOT Location & Design Bristol, Virginia ROADWAY ENGINEER

PUBLIC HEARING

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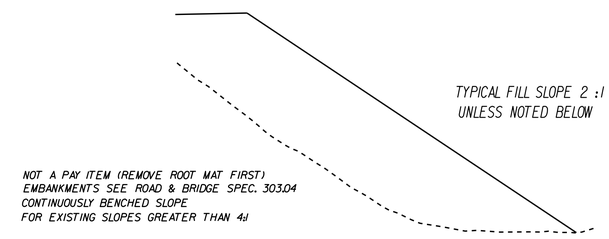

FILL SECTION DETAIL

STATION	TO	STATION	REMARKS
117+25		123+75	1 1/2 :1 FILL SLOPE
127+25		135+25	1 1/2 :1 FILL SLOPE
152+25		153+50	1 1/2 :1 FILL SLOPE

PRELIMINARY DETAIL (TO BE DESIGN AFTER PRELIMINARY SOIL'S REPORT COMPLETED)

TYPICAL SECTIONS

PROJECT	SHEET NO.
0081-086-830	2B

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	2C(1)

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

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD (as defined in the latest IIM 242) will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents)for the land disturbance (construction) activity.

I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that this document and all other documents related to the SWPPP, as identified on the SWPPP General Information Sheets, are maintained at the activity site, or at a location convenient to the activity site where no on-site facilities are available, and such documents will be made available for review upon request in accordance with the provisions of the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) when applicable. Where the SWPPP documents are not stored on-site, a copy of such documents shall be in the possession of those with day to day operational control over the implementation of the SWPPP whenever they are on site.

* or ** Delegated Authority Signature"

Signature: _____
Printed Name: _____
Date:_____

(1) See Section 1, Item 11 relating to delegation of authority, and form LD-445H (Delegation of Authority).

ACRONYMS

CBPA - Chesapeake Bay Preservation Act
BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VDOT - Virginia Department of Transportation
VPDES - Virginia Pollutant Discharge Elimination System
VSMP - Virginia Stormwater Management Program
VESCP - Virginia Erosion and Sediment Control Program
WLA - Waste Load Allocation
SWM - Stormwater Management

SECTION I GENERAL INFORMATION

1. Activity Description - Add Truck Climbing Lane: grading, paving, drainage

2. This land disturbance (construction) activity site is located in Smyth County and approximately 9.90 acres will be disturbed by excavation, grading or other construction activities.

3. (Include one of the following notes as appropriate)

A. This proposed activity disturbs one acre or greater and requires coverage under the VPDES General Permit for Discharges Of Stormwater from Construction Activities (the VPDES Construction Permit) as issued by the DEQ. A copy of the VPDES Construction Permit (VAR10), the registration information (LD-445 & LD-445C forms) and the permit coverage letter received from DEQ shall be maintained with other SWPPP documents for this land disturbing activity.

~~B. This proposed activity disturbs less than one acre and is exempt from coverage under the VPDES General Permit for Discharges of Stormwater from Construction Activities (the VPDES Construction Permit) as issued by the DEQ.~~

~~C.This proposed activity is exempt from coverage under the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES ConstructionPermit) as issued by the DEQ because it is considered a routine maintenance activity (i.e., the proposed activity is intended to maintain the original line and grade, hydraulic capacity or original construction of the project or involves the paving of an existing roadway with a compacted or impervious surface and the reestablishment of associated ditches and shoulders).~~

** 4. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

** 5. Written Evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right of way or easement in the form of the Construction General Permit coverage letter: (List VPDES Permit * or Letter from VSMP Authority stating coverage not needed)

6. List the surface waters that have been identified as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, Nitrogen or Phosphorus. These pollutants are considered benthic impairments: N/A

7. Identify the TMDL's where stormwater from construction activities discharges into a watershed with a TMDL waste load allocation established and approved by the State Water Control Board prior to July 1, 2016 for sediment, total suspended solids, turbidity, nitrogen or phosphorus:N/A

8. This land disturbance activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code: N/A

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity. (List name of surface waters and locations here if not shown in construction plan or other such documents).

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Approved Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. List the RLD and other responsible parties for the land disturbance activity: (required for erosion and sediment control). The following individual(s) have "delegated authority" to sign all reports required by the construction permit including the SWPPP General Information Sheets and Inspection Reports (C-107). Reference form LD-445H for delegation of authority (form 445H for the project is hereby incorporated by reference into this SWPPP). These individual(s) has/have overall responsibility or the environmental matters for the project: (required only for permitted projects):

Name	Position	Responsibility
	RLD	Certify the SWPPP (with date & sig.)
	Certified Inspector	Sign (C-107) Inspection Form Part 1
	Certified Inspector	Sign (C-107) Inspection Form Part 2

* 12. The name of the VDOT individual(s) responsible for the oversight inspection in accordance with IIM-LD-256 on these land disturbance construction activities as identified on these SWPPP General Information Sheets. The names will be updated and maintained with the other SWPPP documents for this land disturbance activity.

VDOT Individuals	Position	Responsibility
Derrick Dotson	NPDES	NPDES coordinator responsible for the oversight inspection in accordance with IIM-LD-256
Richard Buckingham, P.E.	Dist. Hyd. Engineer	District Hydraulic Engineer or designee(s) responsible for the review & the coordination approval of ESC SWM plan modification(s).

* 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow (Select Schedule 1 or 2, if schedule *2 is used, void note *14) as defined in 2016 R&B Specifications except for Section 107.16(e) 4.an Inspection Requirements Rain gauge notes apply only to Inspection Schedule 1.

** 14. The location of the on-site rain gage that will be used to determine the occurrence of a measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance activity:
(List location of rain gage).

The rain gage shall be observed daily at "_____" to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage.
If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.
If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

15. The following VDOT documents are applicable to a) permitted projects b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2,500 S.F. to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP and d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP:

VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP and ESC projects > 10,000 s.f. but <1 acre.
VDOT LD-445A: Permitted projects only.
VDOT LD-445C: Projects that require a permit, ESC Plan, or SWPPP.
VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
VDOT LD-445F: Emergency work projects (when applicable).
Water Quality Requirement (when applicable)
VDOT LD-445H: Permitted projects only.
VDOT C-107 Part I and Part II. All projects that require a permit or SWPPP.
VDOT LD-445I: AS&S Approval Form (when applicable)

16. If there is an excessive loading of sediment from the project (i.e. more than to be expected from the project with an implemented ESC plan) that is discovered within a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, (see note *7) the contractor shall investigate the area of concern at the site within 24 hours of discovery and ensure all erosion and sediment control best management practices are being implemented in accordance with the permits approved standards and specifications required by Part I.B of the current Construction General Permit. If corrective action is necessary, the contractor shall initiate corrective actions no later than 5 business days after the initial investigation.

17. If excessive loading of sediment from a land disturbing activity that is not the responsibility of the contractor is discovered discharging into a MS-4, the contractor shall notify the municipality with jurisdiction over erosion and sediment control activities.

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* Denotes information that is to be provided/completed by the RLD.

** Denotes information that is to be provided/completed by the contractor.

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

Revised 5/1/19

PROJECT	SHEET NO.
0081-086-830	2C(1)

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	2C(2)

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

SECTION II EROSION AND SEDIMENT CONTROL

✱✱ 1. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with the current edition of Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.

2. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

3. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

4. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

5. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. A description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section IV.

✱✱ 7. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP documents for this land disturbance (construction) activity: (List how this will be tracked and the location)

8. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in the current edition of Sections 107.16 and 303.03 of the VDOT R&B Specifications.

9. Nutrients shall be applied in accordance with the current edition of Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events. Top soil shall be applied in accordance with the current edition of section 602 of the latest Road and Bridge Specifications.

10. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file located in the (insert appropriate location, i.e., VDOT Central Office Hydraulics Section or the VDOT (specify) District Hydraulics Section or the VDOT (specify) Residency Office) and will be made available for review upon request during normal business hours.

11. The temporary erosion and siltation control items shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis, elimination of a perimeter control, change to ESC concept that would affect the quantity or direction of flow of water) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shall be retained on the project site and made available upon request during normal business hours.

12. The areas beyond the project's construction limits are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.

13. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.

14. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.

15. The contractor shall plan and implement his land disturbance operations in order to:
- a. Control the volume and velocity of stormwater runoff within the site to minimize erosion.
- b. Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion at outlets and in downstream channels.
- c. Minimize the amount of soil exposed.
- d. Minimize the disturbance of steep slopes.
- e. Minimize sediment discharge from the site.
- f. Provide and maintain natural buffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.
- g. Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

✱✱ 16. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.

17. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be identified, stabilized, and protected with sediment trapping measures.

18. A construction entrance or other approved measure shall be installed at all locations where construction vehicular traffic access routes intersect a paved or a public road in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or a public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.

19. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance (construction) activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Variance

(1) Type of modification (Variance from ESC regulations, or Deviation from published guidance)
(2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
(3) Date that variance/exception/deviation was approved by DEQ.

SECTION III POST CONSTRUCTION STORMWATER MANAGEMENT

Choose the appropriate note 1A or 1B that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark as NA those notes not applicable.)

1. (Include one of the following notes as appropriate)

~~✱ A. This land disturbance activity is grandfathered under Section 9VAC25-870-48 of the VSMP Regulations and utilizes the Part IIC technical criteria (i.e., Performance or Technology Based, MS 19, etc.) in Section 9VAC25-870-93 et seq. of the VSMP Regulations.~~

✱ B. This land disturbance activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-62 et seq. of the VSMP Regulations.

2. An exception for (number) pounds of phosphorus removal has been granted for this land disturbance activity by the DEQ in its letter dated (date).

3. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Waiver

(1) Type of modification (Variance, or Exception from SWM Regulations or Deviation from published guidance)
(2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
(3) Date that variance/exception/deviation was approved by DEQ.

4. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

5. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file located in the VDOT Bristol District Hydraulics Section and will be made available for review upon request during normal working business hours.

ACRONYMS

CBPA - Chesapeake Bay Preservation Act
BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
SWPPP - Stormwater Pollution Prevention Plan
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WLA - Waste Load Allocation
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✱ Denotes information that is to be provided/ completed by the RLD.

✱✱ Denotes information that is to be provided/completed by the contractor.

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

Revised 5/1/19

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	2C(3)

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

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.

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION IV SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

** 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with, but not limited to, Section 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

4. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

* 5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy of the General Permit coverage letter and a copy of a completed LD-445A form, noting the name and contact information for the VDOT person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

6. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the VDOT and shall be scheduled during normal business hours and no less than once per month.

SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:
   a. Wastewater from concrete washouts.
   b. Wastewater from the washout and cleanout of stucco, paint, from release oils, curing compounds and other construction materials.
   c. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
   d. Oils, toxic substances or hazardous substances from spills or other releases.
   e. Soaps, solvents or detergents used in equipment and vehicle washing.
   f. There shall be no discharge of floating solids or visible foam in other than trace amounts

2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:
   a. Discharges from firefighting activities.
   b. Fire hydrant flushings.
   c. Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
   d. Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
   e. Potable water sources including uncontaminated waterline flushings managed in a manner to avoid stream impacts.
   f. Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
   g. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.
   h. Uncontaminated air conditioning or compressor condensate.
   i. Uncontaminated ground water or spring water.
   j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
   k. Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
   l. Landscape irrigation.

** 3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Plan shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall:
   a. Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
   b. Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record set of plans.
   c. Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled with stormwater discharges from the construction activity, including any on-site support activities.
   d. Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
   e. Describe the pollution prevention practices and procedures that will be implemented to:
      1) Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.
      2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
      3) Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds.
      4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
      5) Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters.
      6) Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.
      7) Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, waste concrete and sanitary wastes.
      8) Address any other discharge from any potential pollutant-generating activity not listed herein.
      9) Minimize the exposure of waste materials to precipitation by closing or covering waste containers during precipitation events and at the end of the business day, or implementing other similarly effective practices. Minimization of exposure is not required in case where the exposure to precipitation will not result in a discharge of pollutants.
      10) Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel.

* Denotes information that is to be provided/completed by the RLD.

** Denotes information that is to be provided/completed by the contractor.

Revised 5/1/19

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	2C(4)

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

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

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

SECTION VI - PERMANENT BMP INFORMATION △

✱ Denotes information that is to be completed by the RLD.
( ) See note referenced by number in parentheses.

INSTALLED BMP INFORMATION
(VDOT Owned/Operated)

Plan Sheet(s)	Date BMP Made Functional	Type of BMP Installed (See Table A and C)	Geographic Location (County or City)	Latitude/Longitude (1) LAT	Latitude/Longitude (1) LONG	VA 6th Order HUC (7)	Receiving Water (2)	Name of Impaired Water (9)	Acres Treated Per BMP (3) Impervious	Acres Treated Per BMP (3) Pervious	Acres Treated Per BMP (3) TOTAL	✱ BMP Maintenance ID Number (10)	BMP Maintenance Manual (11) SECTION	BMP Inspection Manual (11) SECTION
3, 3B, 3C		DRY EXTENDED DETENTION BASIN	SMYTH	36.8119 N	81.6094 W	TH12	TRIB. TO MIDDLE FORK HOLSTON RIVER	----------	4.74 AC	4.57 AC	9.31 AC	SEE NOTE 10	SECTION 7	SECTION 7

ALTERNATIVE BMP INFORMATION

Plan Sheet(s)	Date	Type of BMP Installed (See Table B)	Geographic Location (County or City) (5)	Latitude/Longitude (1) (5) LAT	Latitude/Longitude (1) (5) LONG	VA 6th Order HUC (5) (7)	Receiving Water (2)	Name of Impaired Water (9)

Perpetual Nutrient Credits Acquired for Project

Name of Nutrient Credit Generating Entity (6)	Nutrient Credits (lbs./TP./year) Acquired (6) (12)
GOLDEN KNOLL	5.61

△ Any changes to the proposed SWM Plan or BMPs necessitated during the construction phase of the project that affects the proposed construction details or potentially affects the informationshown in the BMP Tables A and/or B shall be coordinated by the VDOT RLD with the appropriate VDOT District Hydraulics Engineer. The construction plans and the BMP Tables A and/or B are to be formally revised to reflect any authorized/approved changes to the proposed SWM Plan and/or the proposed BMP construction details. All plan revisions shall be completed in accordance with the Road Design Manual and the Construction Division IIM-CD-2013-12.01, signed and sealed in accordance with Department's sealing and signing policy IIM-LD-243 and filed with the construction record drawings maintained in the VDOT Central Office Plan File Room (ProjectWise). Prior to submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities, the RLD shall have the District Maintenance Division review the BMPs installed with the project (BMP Table A) for acceptance of maintenance responsibility and to obtain a Maintenance ID number for each BMP listed in BMP Table A. The RLD shall use the informationin BMP Tables A and B along with the assigned Maintenance ID number and the date that the BMP became functional as a permanent control measure (for BMPs in Table A only) to complete the LD-445D form when certifying the construction of the BMPs and submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities.

Table A: Permanent BMP Types (1999 Va. SWM Handbook)
Bio-retention Basin
Bio-retention Filter
Constructed Stormwater Wetlands
Extended Detention Basin
Extended Detention Basin Enhanced
Grassed Swale
Infiltration Basin
Infiltration Trench
Manufactured Treatment Device (MTD) (8)
Retention Basin I
Retention Basin II
Retention Basin III
Sand Filter
Vegetated Filter Strip
Other Approved Types (List Type)
Detention Basin

Table B: Alternative BMP Types
Comprehensive SWM Plan (Regional) Facility
Pollutant Loading Pro Rata Share Program
Other Approved Options (List Type) (4)

Table C: Permanent BMP Types (BMP Clearing House)
Sheet Flow to Vegetated Filter Strip
Grass Channel
Soil Compost Amendment
Permeable Pavement (Level 1)
Permeable Pavement (Level 2)
Infiltration Practice (Level 1)
Infiltration Practice (Level 2)
Bioretention (Level 1)
Bioretention (Level 2)
Dry Swale (Level 1)
Dry Swale (Level 2)
Wet Swale (Level 1)
Wet Swale (Level 2)
Filtering Practice (Level 1)
Filtering Practice (Level 2)
Constructed Wetlands (Level 1)
Constructed Wetlands (Level 2)
Extended Detention Pond (Level 1)
Extended Detention Pond (Level 2)
Wet Pond (Level 1)
Wet Pond (Level 2)
Manufactured Treatment Device (MTD)(8)
Other Approved Types (List Type)

NOTES:
(1) In decimal degrees to the nearest one ten-thousandth of a degree.

(2) For streams with no names, list "(Unnamed Tributary to downstream name)".

(3) Show acres treated to the nearest one hundreths acre.

(4) Include agreements with off-site BMP owners.

(5) Information pertains to the alternative BMP option location, where applicable. Exception - Not required for nutrient credit purchase option.

(6) Applies to the purchase of nutrient credits only.

(7) Virginia 6th Order HUC (VAHU6) Example - Y030.

(8) Final approved shop drawings of Manufactured Treatment Devices (MTDs) are to be included with the BMP information submitted with the LD-445D form.

(9) List the name of any impaired water to which the BMP discharges. The determination of impaired water shall be based on those streams listed as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report and shall be the first named waterbody to which the BMP discharges. The impaired waters are those impaired by sediment, total suspended solids, turbidity, nitrogen or phosphorus.

(10) BMP Maintenance ID Number is to be assigned by the District Maintenance Division at permit termination or project completion. This ID number shall be assigned prior to the permit close out process and entered by the area construction engineer under this column, per IIM-LD-95

(11) Provide the section of each Maintenance manual that pertains to the type of BMP. Both manuals can be found at www.vdot.virginia.gov/business/manuals in the Maintenance selections. Example: Section 4 would be noted for both the maintenance and inspection manuals for a Bioretention I infiltration BMP.

(12) Nutrient credits purchased to the nearest one hundredth pound.

Revised 5/1/19

PROJECT	SHEET NO.
0081-086-830	2C(4)

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	3A

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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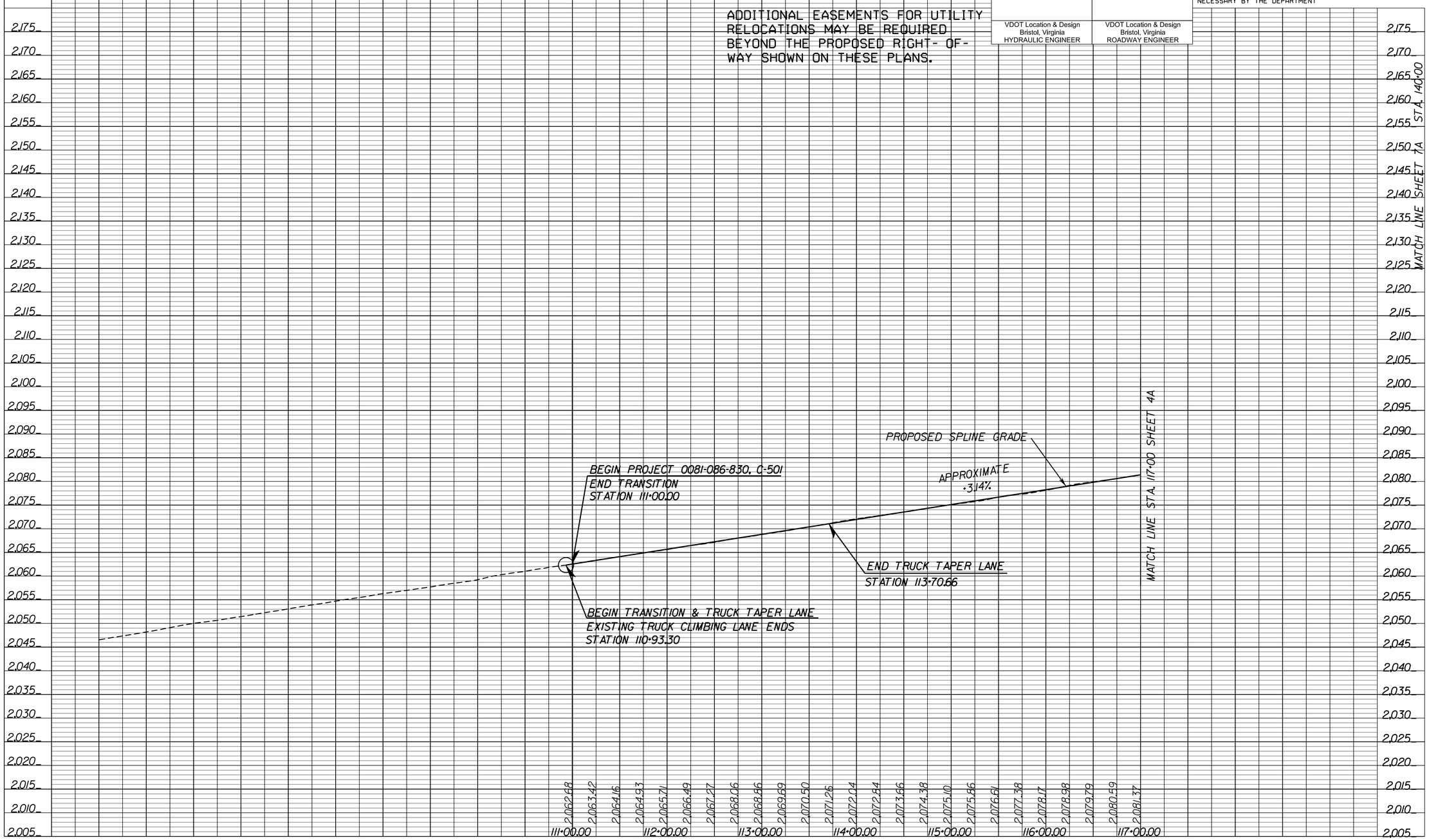
VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

VDOT Location & Design
Bristol, Virginia
ROADWAY ENGINEER



PROJECT	SHEET NO.
0081-086-830	3A

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SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
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SUBSURFACE UTILITY BY, DATE n/a

EROSION & SEDIMENT CONTROL PLAN

PHASE I

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	3B

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VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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REFERENCES	
PLAN SHEET	3
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

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EROSION CONTROL NARRATIVE - PHASE I

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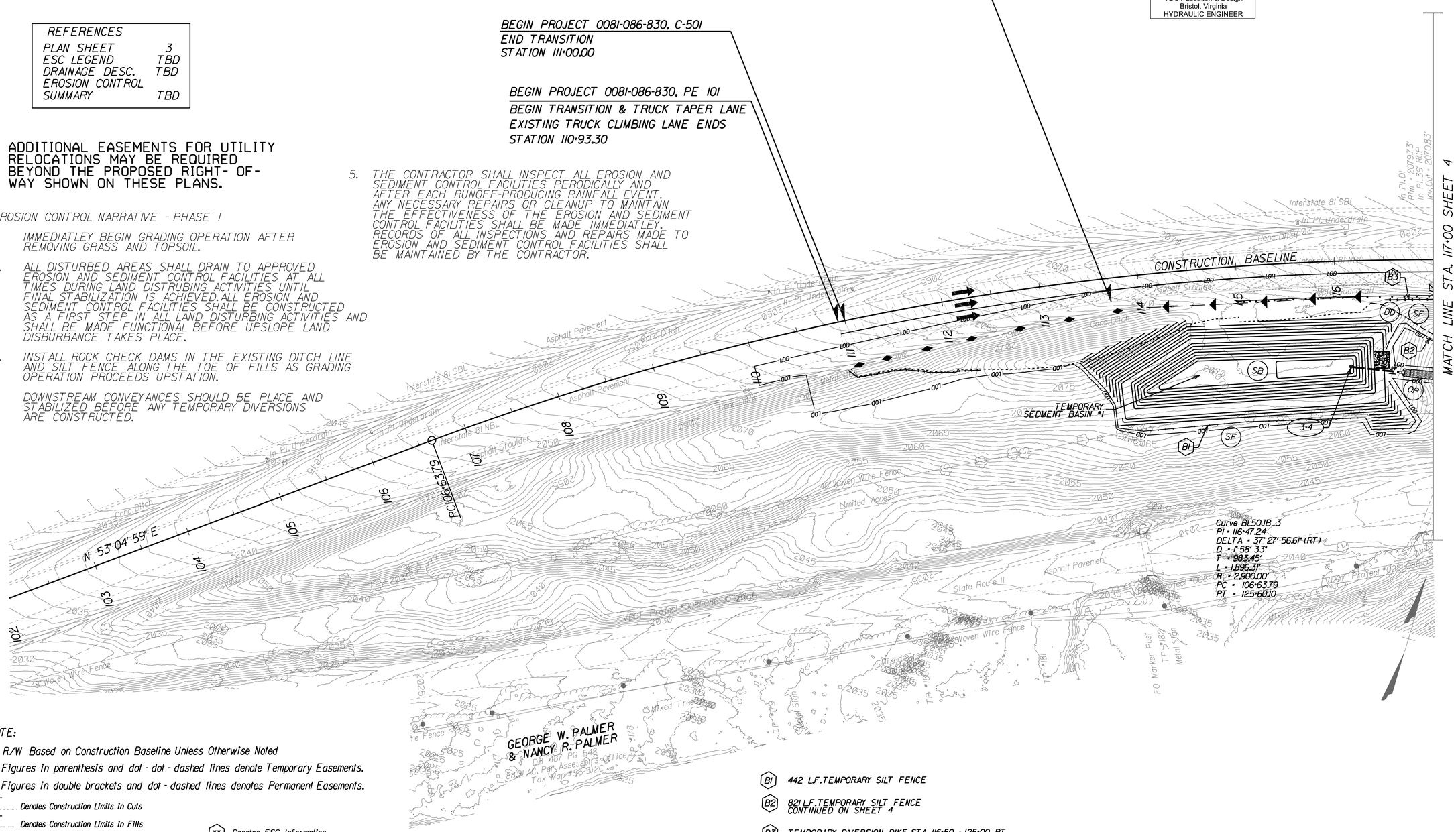
END TRUCK TAPER LANE
STATION 113+70.66

BEGIN PROJECT 0081-086-830, C-501
END TRANSITION
STATION 111+00.00

BEGIN PROJECT 0081-086-830, PE 101
BEGIN TRANSITION & TRUCK TAPER LANE
EXISTING TRUCK CLIMBING LANE ENDS
STATION 110+93.30



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Denotes Truck Lane Pavement
Denotes Planing of Pavement
xx Denotes ESC Information
Denotes Drainage Information
Denotes Guardrail Information

B1 442 LF.TEMPORARY SILT FENCE

B2 821 LF.TEMPORARY SILT FENCE
CONTINUED ON SHEET 4

B3 TEMPORARY DIVERSION DIKE.STA 116+50 - 125+00 RT.
4 TEMPORARY SLOPE DRAINS REQ.20 TONS EC-1
CONTINUED ON SHEET 4

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE I

SCALE	PROJECT	SHEET NO.
0 50' 100'	0081-086-830	3B

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

EROSION & SEDIMENT CONTROL PLAN

PHASE II

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	3C

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

VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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REFERENCES	
PLAN SHEET	3
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

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EROSION CONTROL NARRATIVE - PHASE II

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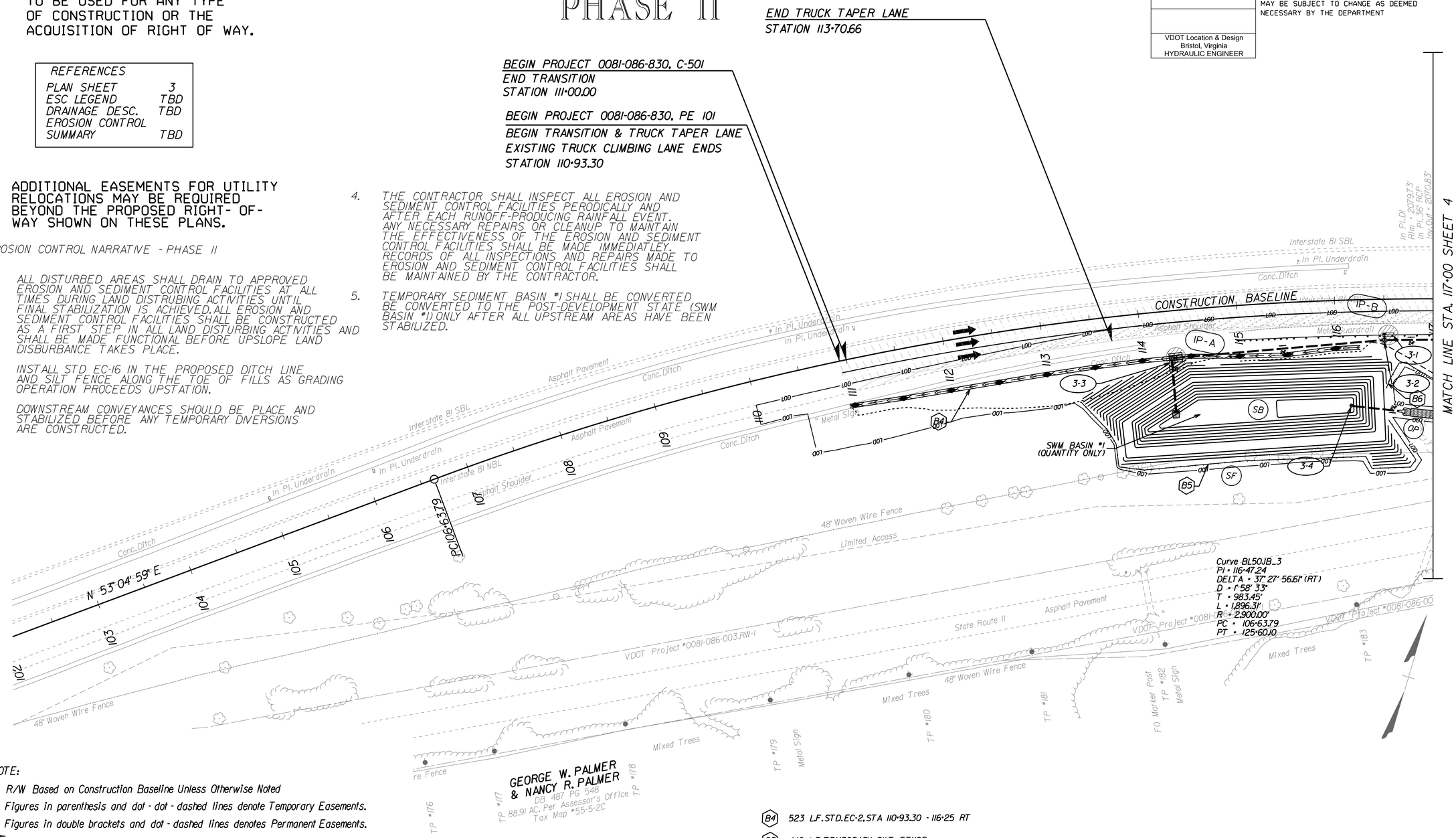
5. TEMPORARY SEDIMENT BASIN #1 SHALL BE CONVERTED BE CONVERTED TO THE POST-DEVELOPMENT STATE (SWM BASIN #1) ONLY AFTER ALL UPSTREAM AREAS HAVE BEEN STABILIZED.



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Denotes Guardrail Information

B4 523 LF.STD.EC-2.STA 110+93.30 - 116+25 RT
B5 442 LF.TEMPORARY SILT FENCE
B6 711 LF.TEMPORARY SILT FENCE

CONTINUED ON SHEET 4

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE II

SCALE	PROJECT	SHEET NO.
0 50' 100'	0081-086-830	3C

PUBLIC HEARING

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PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	4A

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Bristol, Virginia
HYDRAULIC ENGINEER

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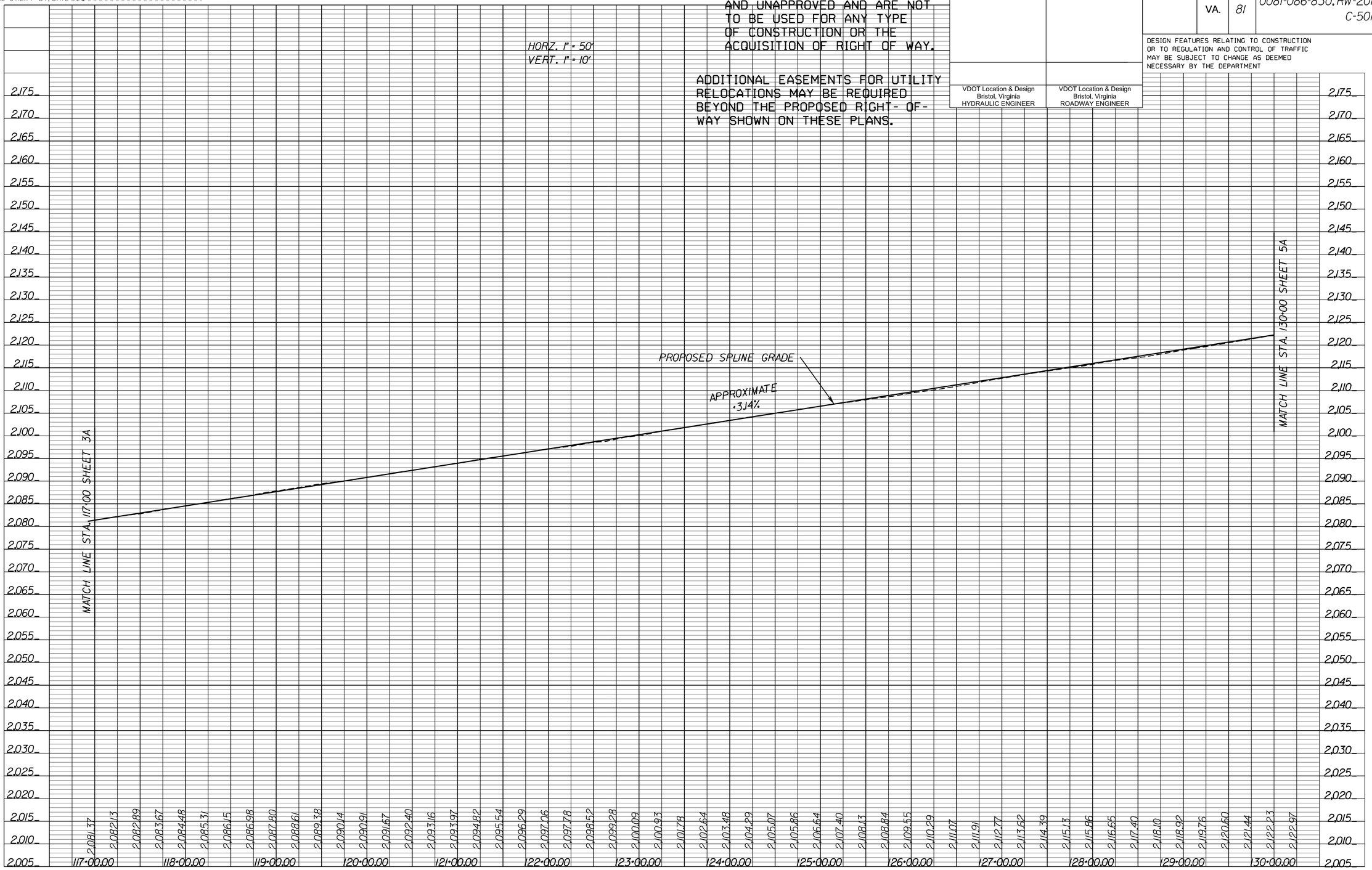
Bristol, Virginia
ROADWAY ENGINEER



PROJECT	SHEET NO.
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VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

EROSION & SEDIMENT CONTROL PLAN
PHASE I

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EROSION CONTROL NARRATIVE - PHASE I

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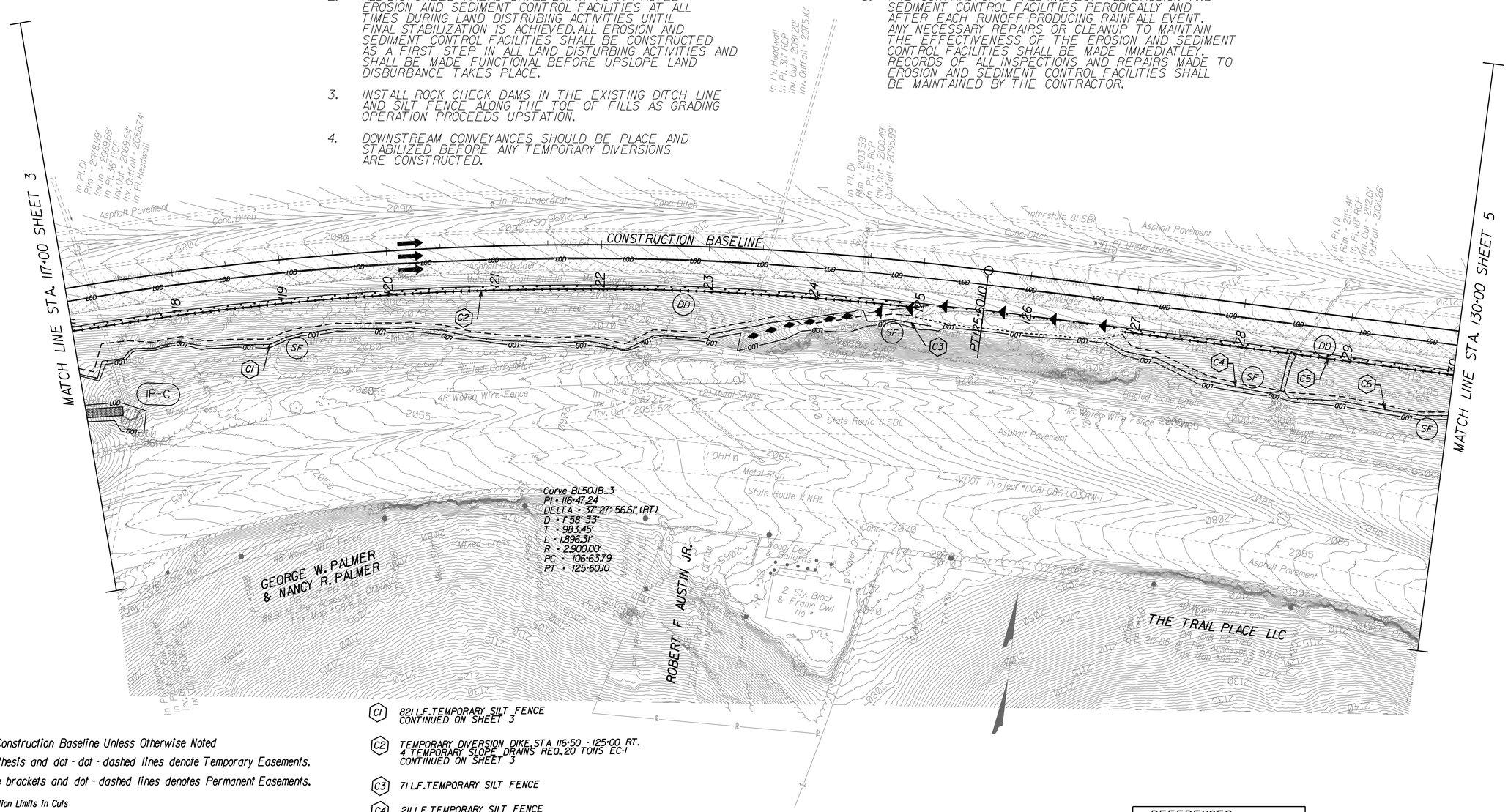

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Denotes Planing of Pavement
xx Denotes ESC Information
Denotes Drainage Information
Denotes Guardrail Information

C1 821 LF. TEMPORARY SILT FENCE CONTINUED ON SHEET 3

C2 TEMPORARY DIVERSION DIKE, STA 116+50 - 125+00 RT. 4 TEMPORARY SLOPE DRAINS REQ. 20 TONS EC-1 CONTINUED ON SHEET 3

C3 71 LF. TEMPORARY SILT FENCE

C4 211 LF. TEMPORARY SILT FENCE

C5 TEMPORARY DIVERSION DIKE, STA 126+90 - 135+25 RT. 4 TEMPORARY SLOPE DRAINS REQ. 20 TONS EC-1 CONTINUED ON SHEET 5

C6 678 LF. TEMPORARY SILT FENCE CONTINUED ON SHEET 5

REFERENCES	
PLAN SHEET	4
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE I

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	4B

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
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SUBSURFACE UTILITY BY, DATE n/a

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EROSION & SEDIMENT CONTROL PLAN

PHASE II

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, 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

VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

EROSION CONTROL NARRATIVE - PHASE II

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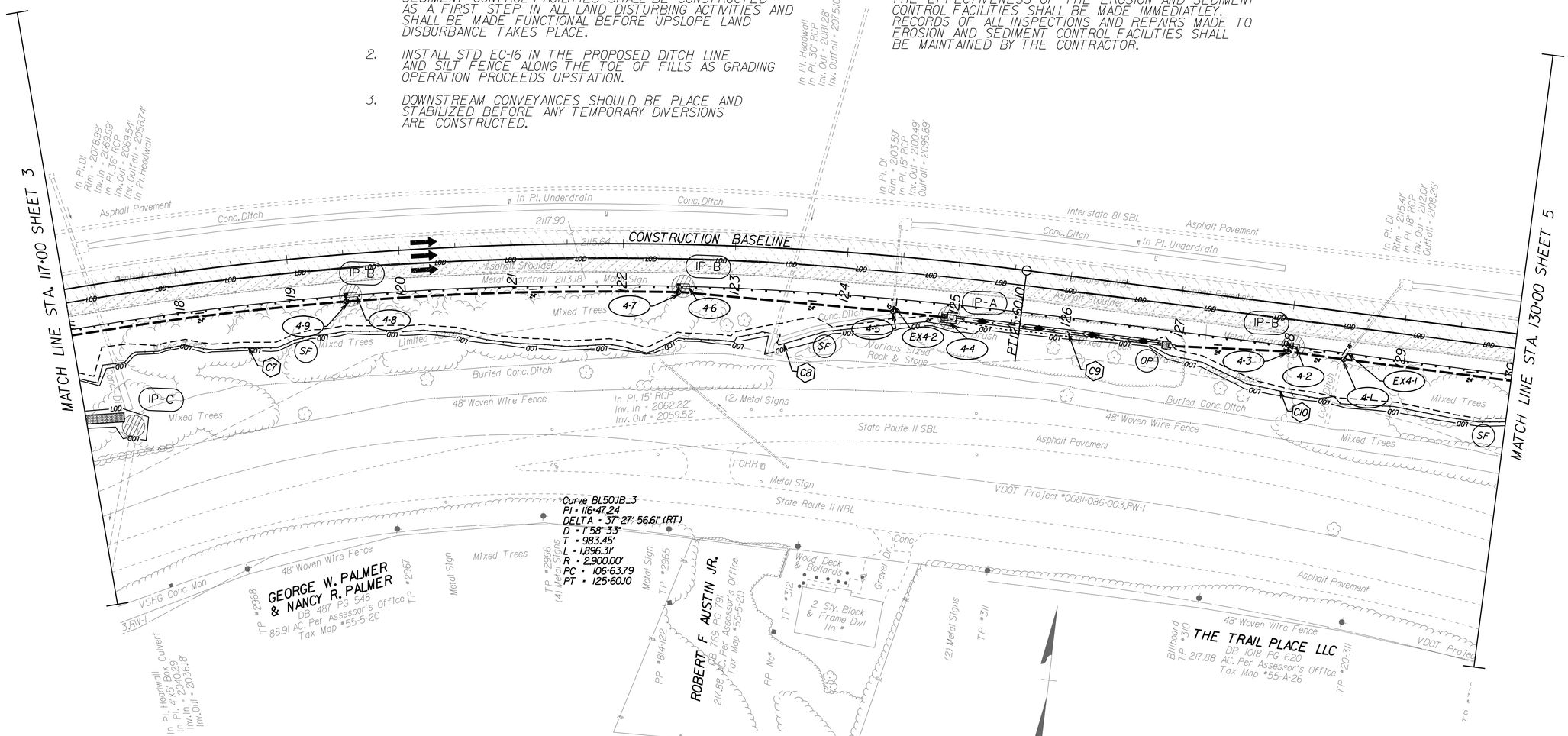

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C7 711 LF. TEMPORARY SILT FENCE CONTINUED ON SHEET 3
C8 181 LF. TEMPORARY SILT FENCE
C9 185 LF. STD. EC-2. STA 125+00-126+85 RT.
C10 568 LF. TEMPORARY SILT FENCE CONTINUED ON SHEET 5

REFERENCES	
PLAN SHEET	4
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE II

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	4C

PUBLIC HEARING

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VDOT Location & Design
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HYDRAULIC ENGINEER

VDOT Location & Design
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ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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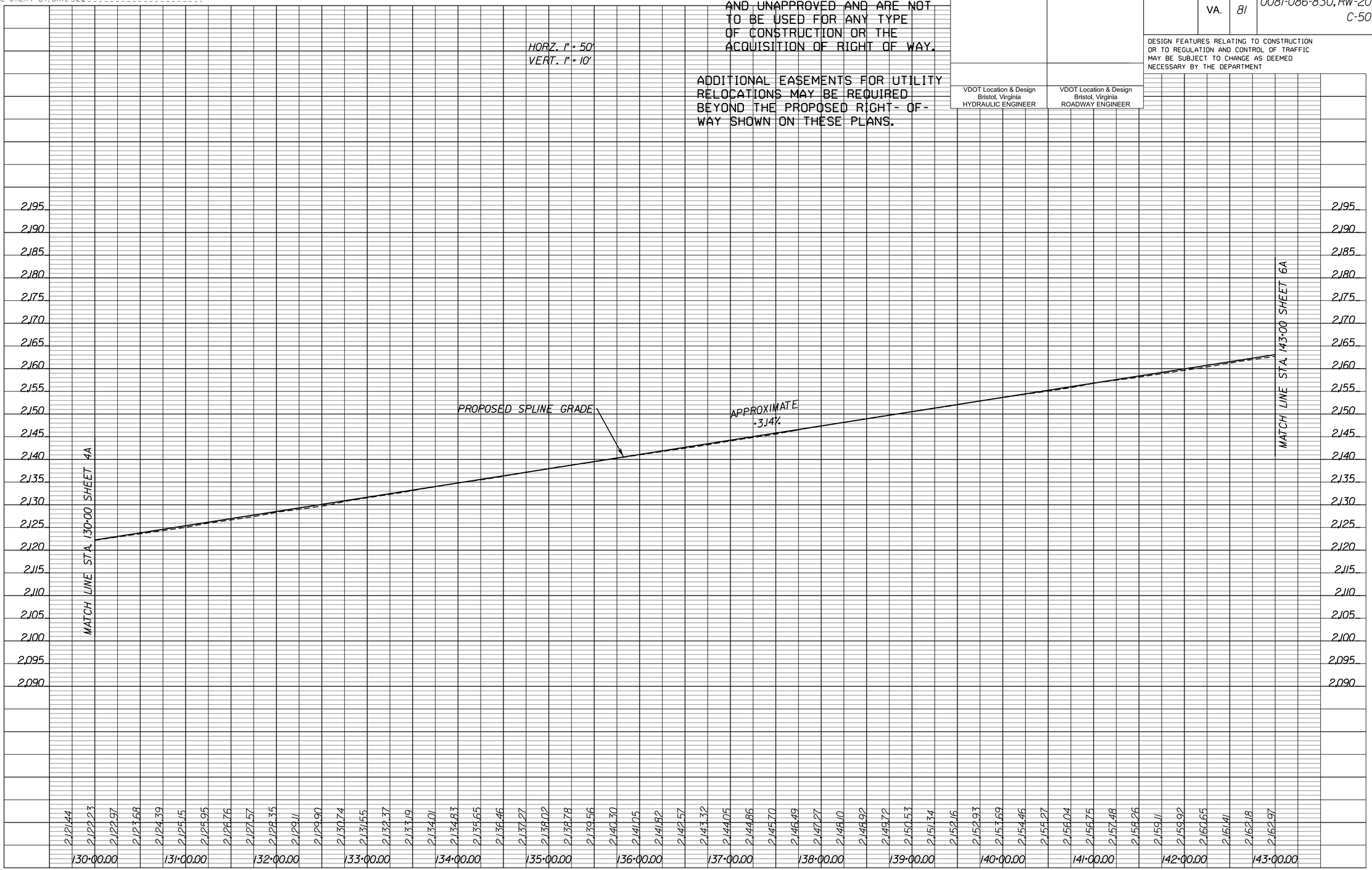

PROJECT	SHEET NO.
0081-086-830	5A

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

EROSION & SEDIMENT CONTROL PLAN
PHASE I

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	5B

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

VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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

EROSION CONTROL NARRATIVE - PHASE I

1. IMMEDIATLEY BEGIN GRADING OPERATION AFTER REMOVING GRASS AND TOPSOIL.
2. ALL DISTURBED AREAS SHALL DRAIN TO APPROVED EROSION AND SEDIMENT CONTROL FACILITIES AT ALL TIMES DURING LAND DISTRUBING ACTIVITIES UNTIL FINAL STABILIZATION IS ACHIEVED. ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE CONSTRUCTED AS A FIRST STEP IN ALL LAND DISTURBING ACTIVITIES AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISBURBANCE TAKES PLACE.
3. INSTALL ROCK CHECK DAMS IN THE EXISTING DITCH LINE AND SILT FENCE ALONG THE TOE OF FILLS AS GRADING OPERATION PROCEEDS UPSTATION.
4. DOWNSTREAM CONVEYANCES SHOULD BE PLACE AND STABILIZED BEFORE ANY TEMPORARY DIVERSIONS ARE CONSTRUCTED.
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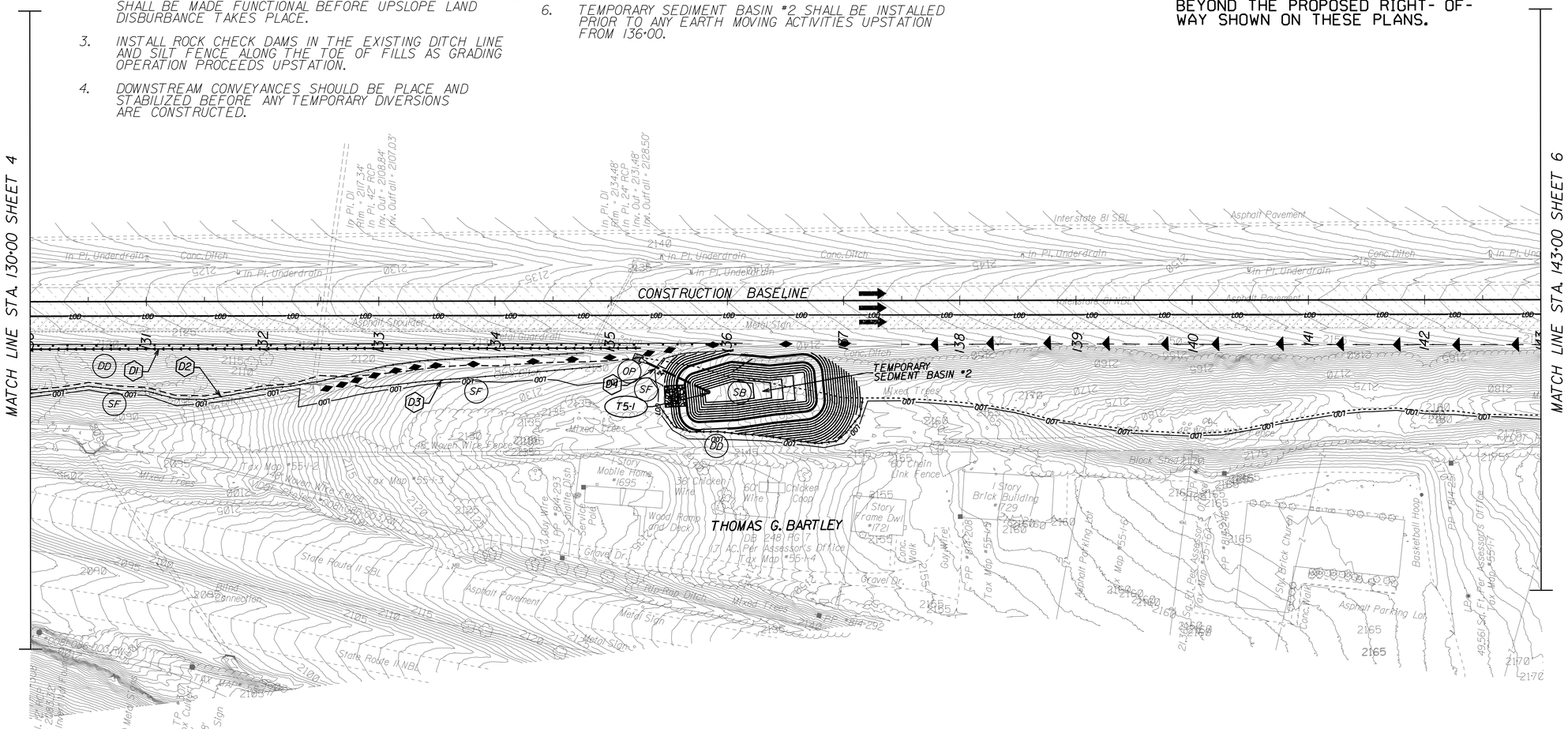
6. TEMPORARY SEDIMENT BASIN #2 SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING ACTIVITIES UPSTATION FROM 136+00.



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F Denotes Construction Limits In Fills
Denotes Demo. of Pavement
Denotes Truck Lane Pavement
Denotes Planing of Pavement
xx Denotes ESC Information
Denotes Drainage Information
#-# Denotes Guardrail Information

DI TEMPORARY DIVERSION DIKE, STA 126+90 - 135+25 RT. 4 TEMPORARY SLOPE DRAINS REQ. 20 TONS EC-1 CONTINUED ON SHEET 4

D2 678 LF. TEMPORARY SILT FENCE CONTINUED ON SHEET 4

D3 213 LF. TEMPORARY SILT FENCE

D4 91 LF. TEMPORARY SILT FENCE

REFERENCES

PLAN SHEET	5
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE I

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	5B

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

EROSION & SEDIMENT CONTROL PLAN
PHASE II

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	5C

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

VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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EROSION CONTROL NARRATIVE - PHASE II

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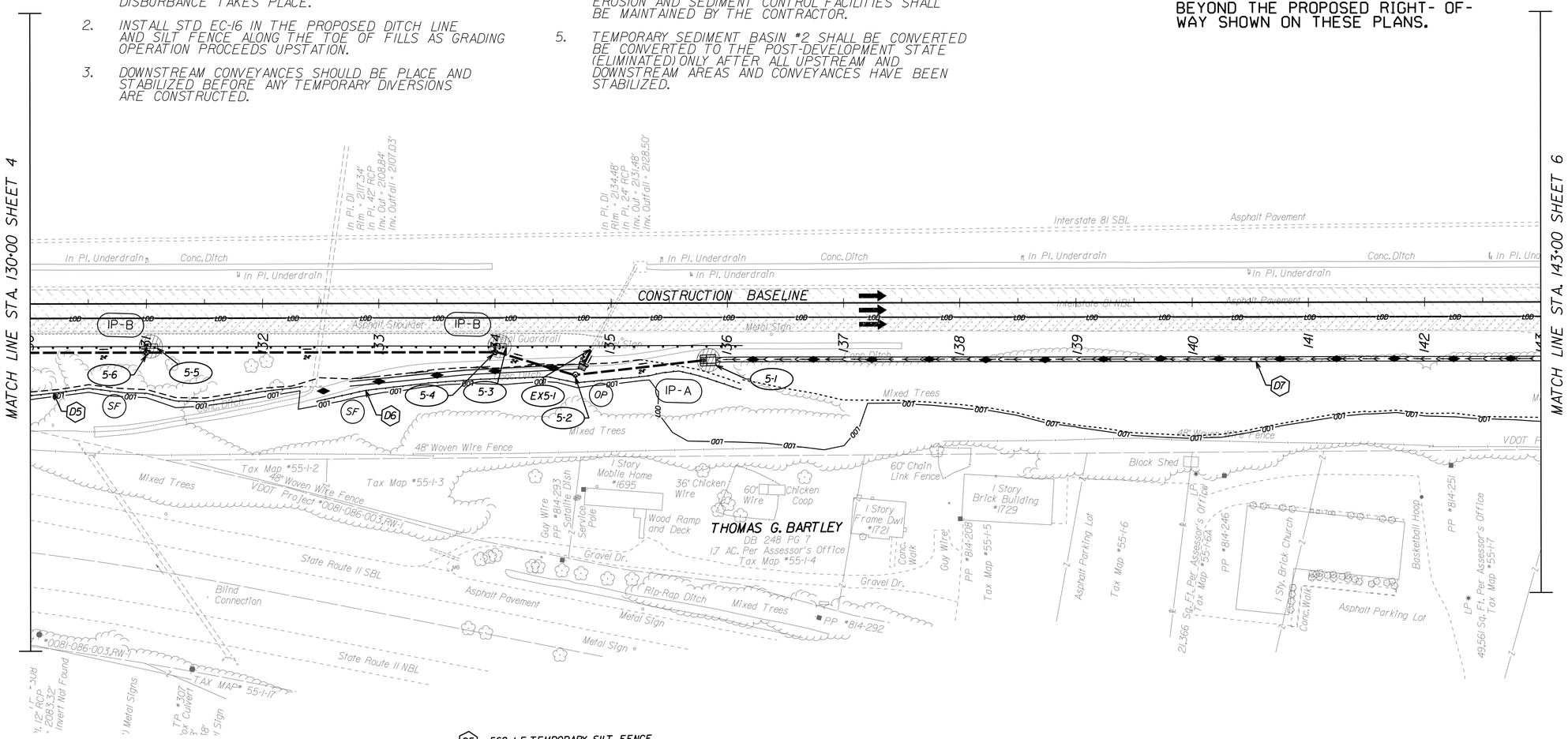
5. TEMPORARY SEDIMENT BASIN #2 SHALL BE CONVERTED BE CONVERTED TO THE POST-DEVELOPMENT STATE (ELIMINATED) ONLY AFTER ALL UPSTREAM AND DOWNSTREAM AREAS AND CONVEYANCES HAVE BEEN STABILIZED.



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Denotes Guardrail Information

D5 568 L.F. TEMPORARY SILT FENCE CONTINUED ON SHEET 4
D6 371 L.F. TEMPORARY SILT FENCE
D7 1606 L.F. STD. EC-2, STA 135+90 - 151+95 CONTINUED ON SHEET 6

REFERENCES	
PLAN SHEET	5
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE II

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	5C

PUBLIC HEARING

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

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VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

VDOT Location & Design
Bristol, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	6A

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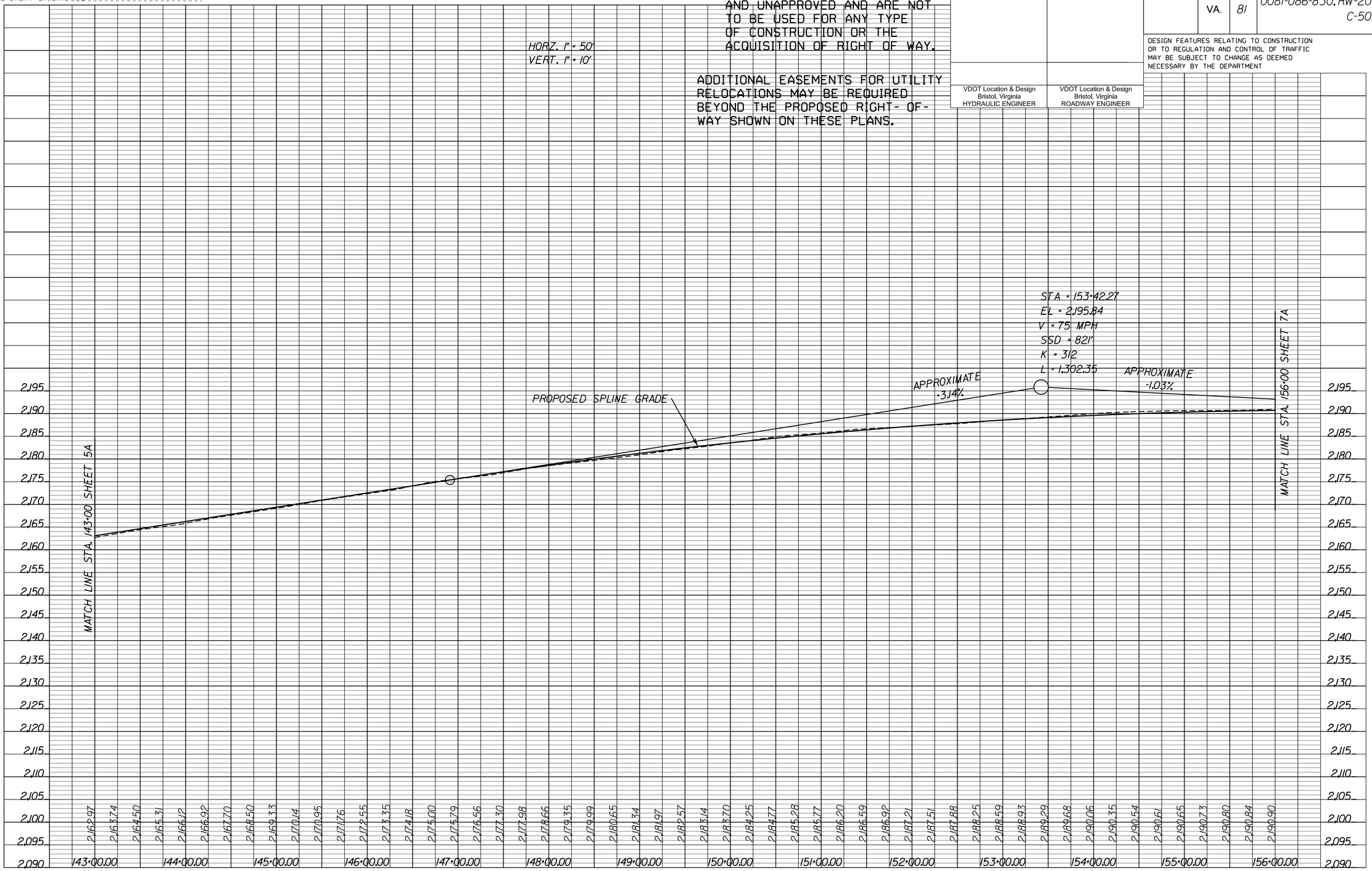

PROJECT	SHEET NO.
0081-086-830	6A

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

EROSION & SEDIMENT CONTROL PLAN
PHASE I

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	6B

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VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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EROSION CONTROL NARRATIVE - PHASE I

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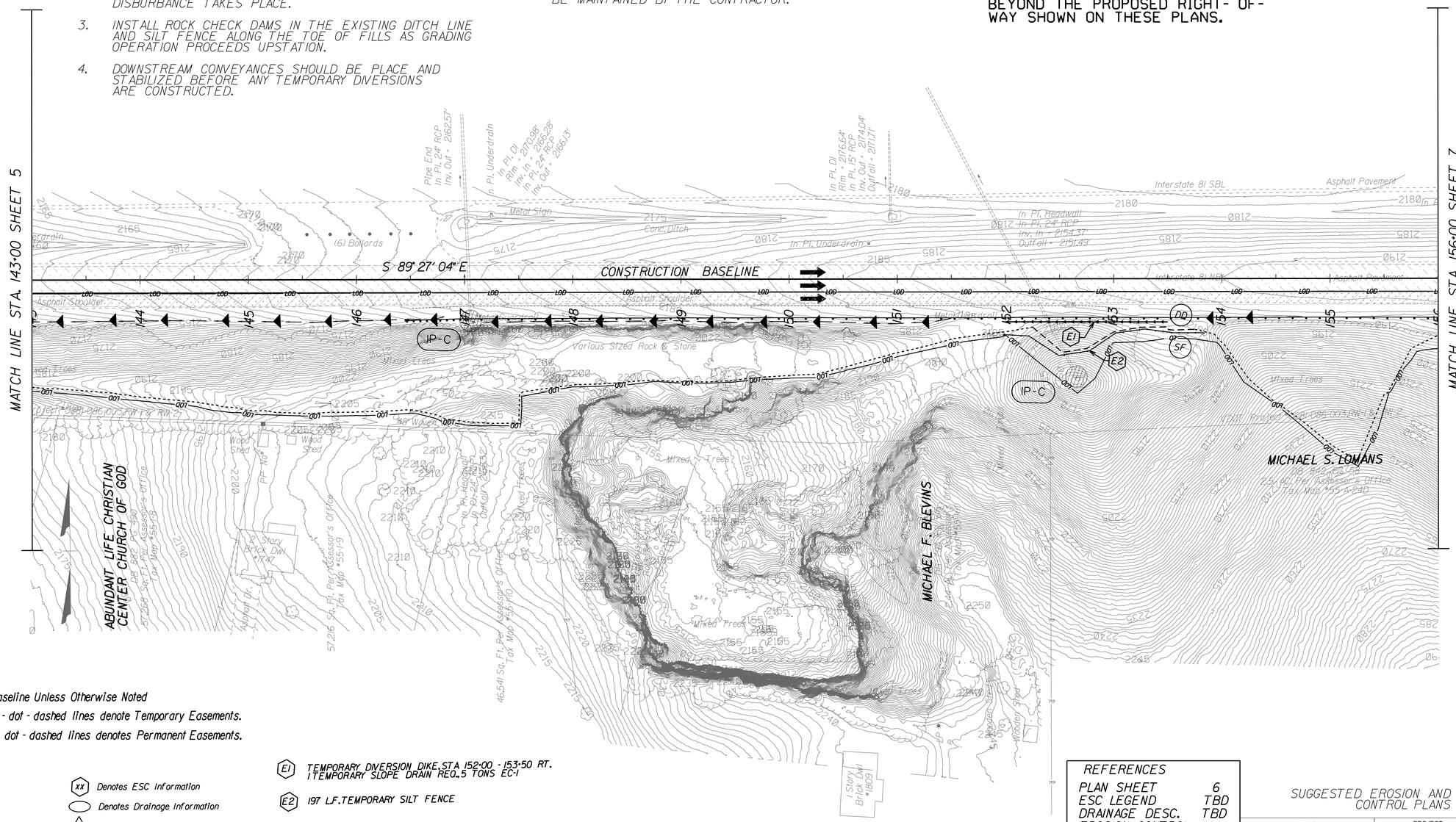

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EI TEMPORARY DIVERSION DIKE, STA 152+00 - 153+50 RT.
1 TEMPORARY SLOPE DRAIN REQ. 5 TONS EC-1

E2 197 L.F. TEMPORARY SILT FENCE

REFERENCES	
PLAN SHEET	6
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE I

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	6B

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

EROSION & SEDIMENT CONTROL PLAN
PHASE II

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	6C

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

VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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EROSION CONTROL NARRATIVE - PHASE II

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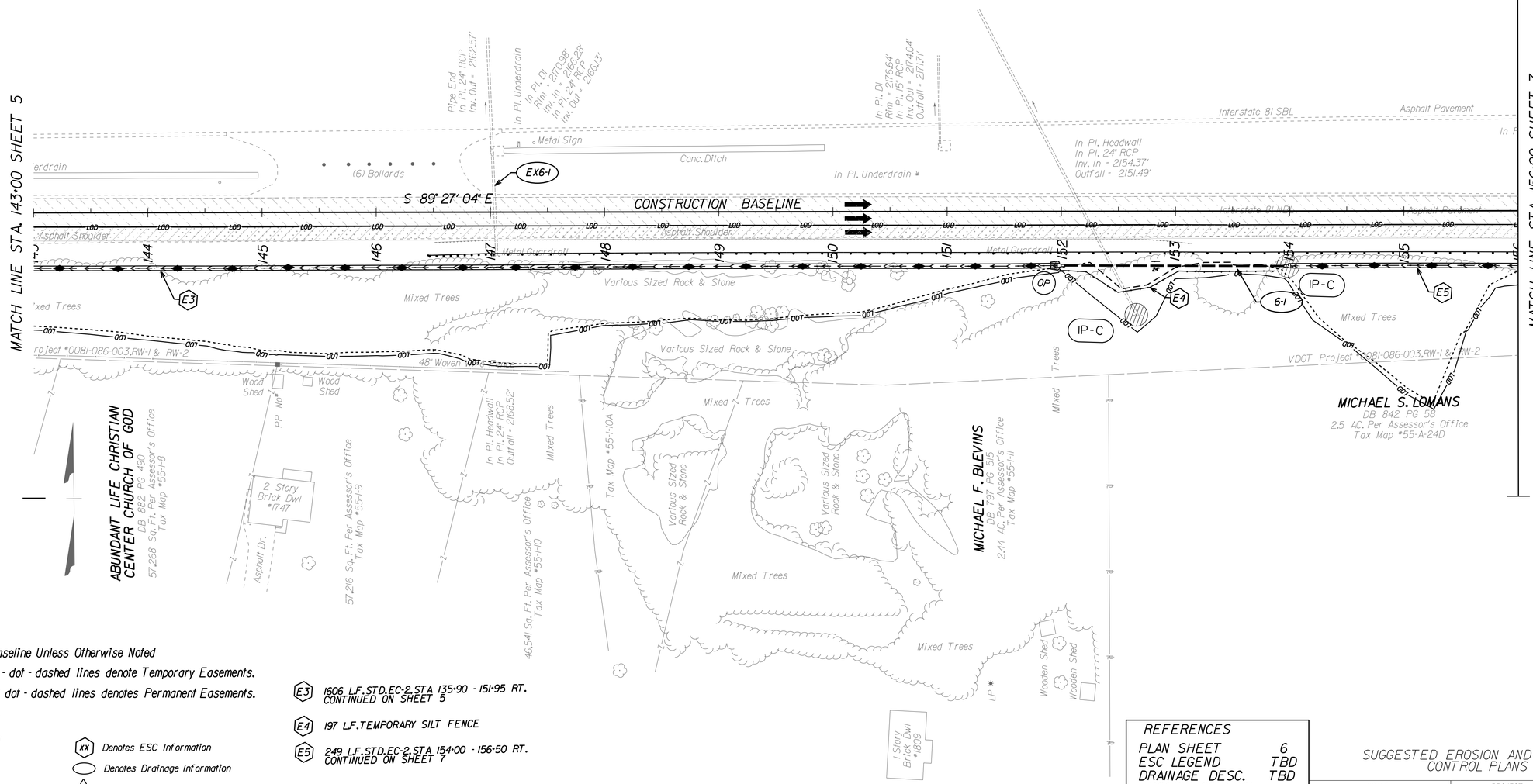

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E3 1606 LF. STD. EC-2. STA 135+90 - 151+95 RT. CONTINUED ON SHEET 5
E4 197 LF. TEMPORARY SILT FENCE
E5 249 LF. STD. EC-2. STA 154+00 - 156+50 RT. CONTINUED ON SHEET 7

REFERENCES	
PLAN SHEET	6
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE II

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	6C

PUBLIC HEARING LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
SURVEYED BY, DATE Woolpert 757-549-5346 2020
DESIGN BY James Bullins 276-696-3349
SUBSURFACE UTILITY BY, DATE n/a

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	7A

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VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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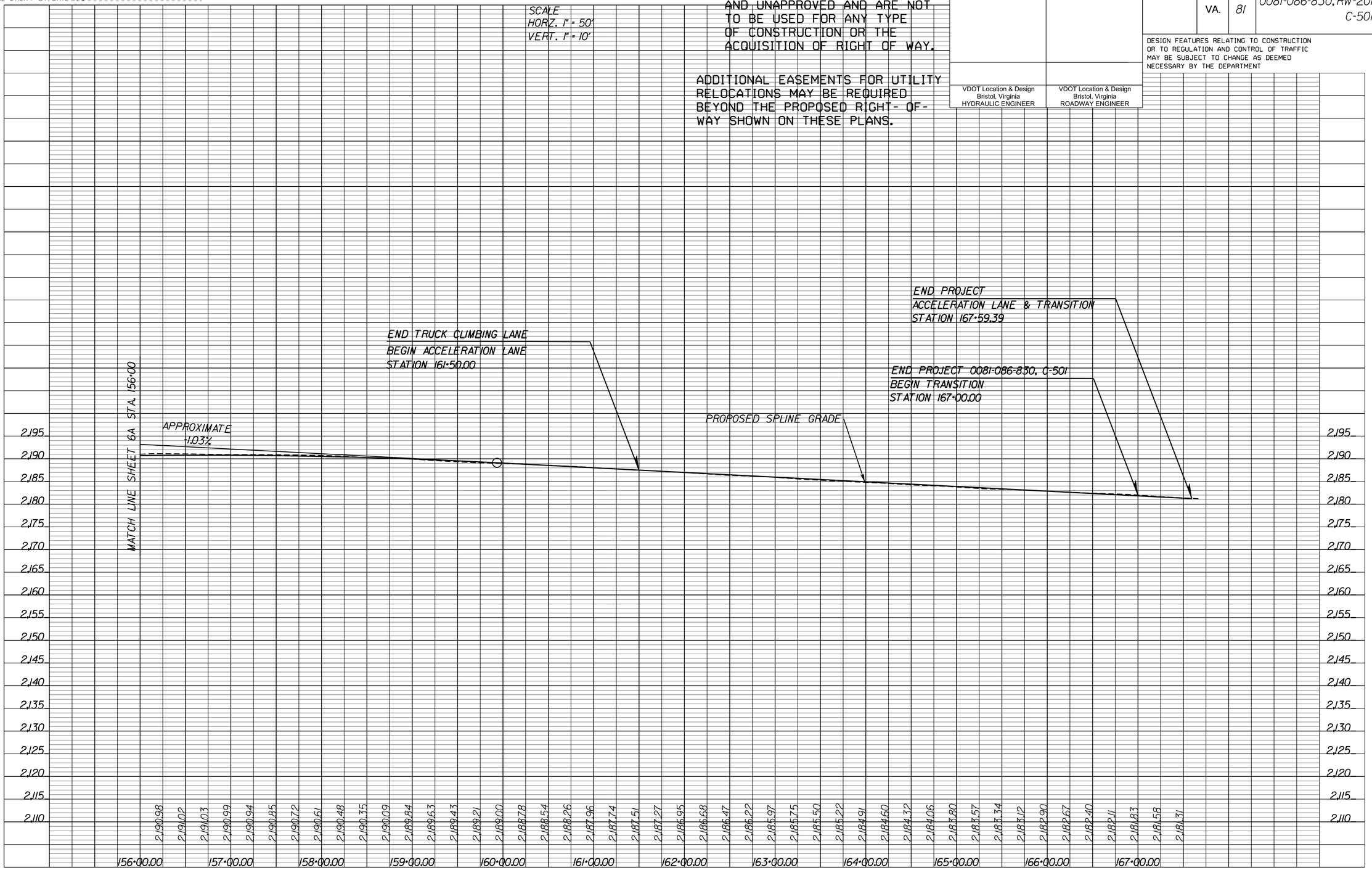
ROADWAY ENGINEER



PROJECT	SHEET NO.
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LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

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SURVEYED BY, DATE WOOLPERT 757-549-3549 2020
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EROSION & SEDIMENT CONTROL PLAN
PHASE I

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	7B

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HYDRAULIC ENGINEER

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EROSION CONTROL NARRATIVE - PHASE I

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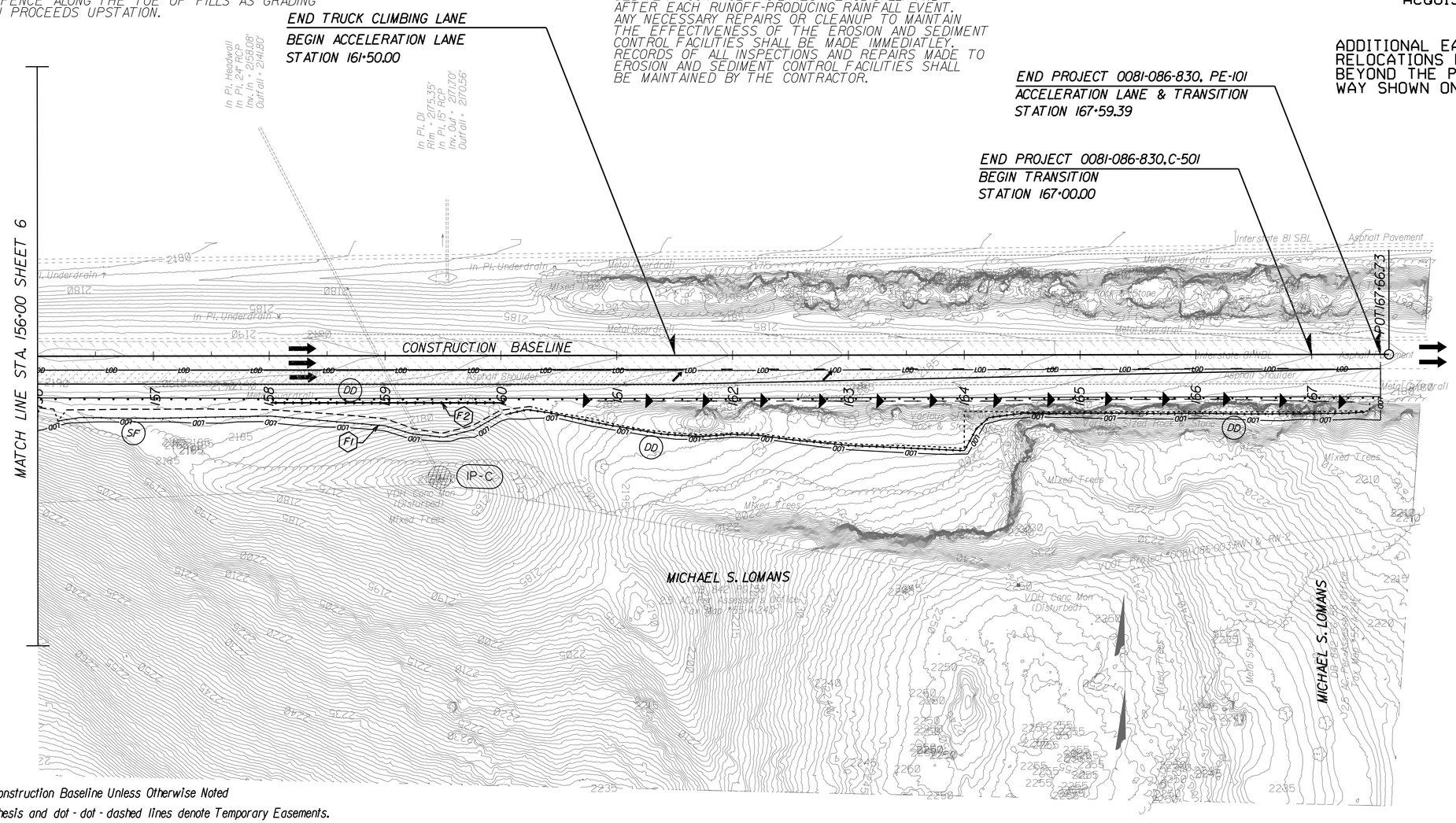

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F1 389 LF.TEMPORARY SILT FENCE
F2 TEMPORARY DIVERSION DIKE.STA 158+00 - 160+00 RT.
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REFERENCES	
PLAN SHEET	7
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE I

SCALE	PROJECT	SHEET NO.
0 50' 100'	0081-086-830	7B

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

BRISTOL DISTRICT DESIGN UNIT

PROJECT MANAGER JAMES JONES 276-696-3257
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SUBSURFACE UTILITY BY, DATE n/a

EROSION & SEDIMENT CONTROL PLAN
PHASE II

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-830, RW-201 C-501	7C

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VDOT Location & Design
Bristol, Virginia
HYDRAULIC ENGINEER

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EROSION CONTROL NARRATIVE - PHASE II

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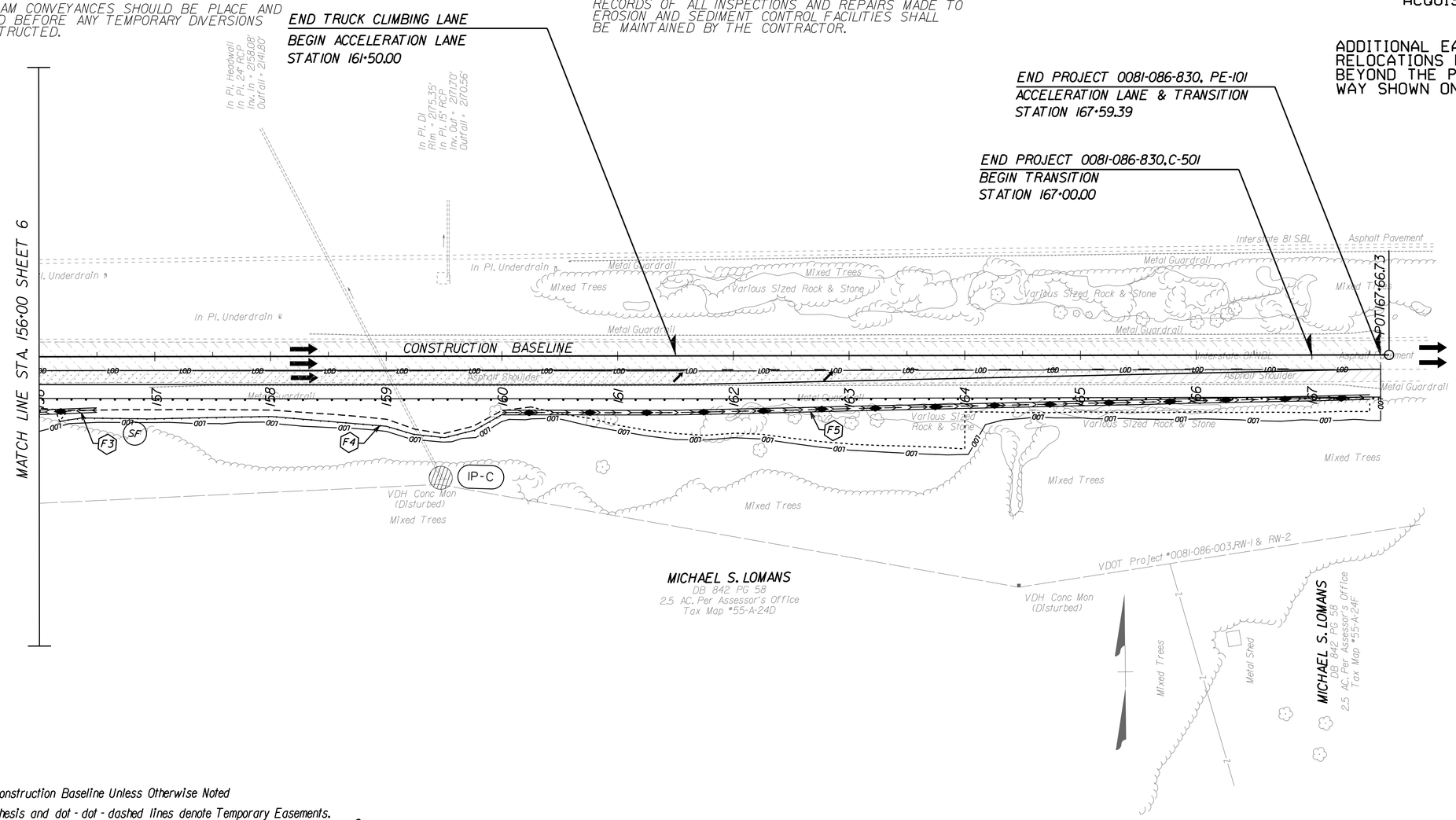

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F3 249 LF.STD.EC-2.STA 154+00 - 156+50 RT. CONTINUED ON SHEET 6
F4 389 LF.TEMPORARY SILT FENCE
F5 750 LF.STD.EC-2.STA 160+00 - 167+50 RT.

REFERENCES

PLAN SHEET	7
ESC LEGEND	TBD
DRAINAGE DESC.	TBD
EROSION CONTROL SUMMARY	TBD

SUGGESTED EROSION AND SEDIMENT CONTROL PLANS - PHASE II

SCALE 0 50' 100'

PROJECT	SHEET NO.
0081-086-830	7C