Oct 4, 1954

Box Culvert Std BC-2A, BC-4A
BC-5, BC-W & BC-W1 DIBC-1

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET		
" " 2	THRU 2G SUMMARY SHEETS & LAYOUT SHEET		
" " 3	" 3A PLAN & PROFILE SHEETS STA 1417+21.38	TO	STA. 1440+00.00
" " 4	" 4A " " " " 1440+00.00	"	" 1472+00.00
" " 5	" 5A " " " " 1472+00.00	"	" 1504+00.00
" " 6	" 6A " " " " 1504+00.00	"	" 1536+00.00
" " 7	" 7A " " " " 1536+00.00	"	" 1552+00.00
" " 8	" 8A " " " " 1552+00.00	"	" 1568+00.00
" " 9	" 9A " " " " 1568+00.00	"	" 1584+00.00
" " 10	" 10A " " " " 1584+00.00	"	" 1616+00.00
" " 11	" 11A " " " " 1616+00.00	"	" 1648+00.00
" " 12	" 12A " " " " 1648+00.00	"	" 1706+00.00
" " 13	Channel Change Looney Mill Creek & Conn Rte. 11		
" " 14	PROFILE SHEETS CONN. RTE. 11 & CONN. RTE. 636		
" " 15	" " " CONN. RTE. 606		
" " 16	" " " Fr. Rd's C, Fr. Rd's E & Conn. Rte. 641		
" " 17	" " " CONN RTE 341, TEMP RUN-AROUND RTE 11, CHANNEL CHANGE LOONEY MILL CREEK & BECKNER'S BRANCH		
" " 18	Prop. Grade Separation NBL Rte 81 over Rte. 606 42' Cl Roadway Plan No CEXX 11-17		
" " 19	Prop. Grade Separation SBL Rte. 81 over Rte. 606 42 Cl Roadway " " CEXX-11-17		
" " 20	Prop. Grade Separation Rte. 11 over NBL & SBL Rte. 81 48' Cl Roadway Plan No. CEXX-13		
" " 21	Prop. Grade Separation Rte. 636 over NBL & SBL Rte. 81 24 Cl. Roadway Plan No. CEXX-5		
" " 22	Prop. Bridge Layout Sheet NBL Rte. 81 over Rte. 606		
" " 23	Prop. Bridge Approach Slabs NBL & SBL RTE. 81 over Rte. 606		
" " 24	Prop. Bridge Layout Sheet SBL Rte. 81 over Rte. 606		
" " 25	Prop. Bridge Layout Sheet Rte. 11 over NBL & SBL Rte. 81		
" " 26	Prop. Bridge Approach Slabs " " " " " "		
" " 27	Prop. Bridge Layout Sheet Rte. 636 over NBL & SBL Rte. 81		
" " 28	Traffic Signs Proj 0081-011-010 P-403		

Earthwork Computation Job No. 2029
53 Sheets Cross Sections (Conn. Fr. Rds. & Chan. Ch's, Rest Area)

Cont. III Cross Section Sheets 47 thru 53

Cont. III

Cont. II

Cont. I

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

BOTETOURT COUNTY
FROM 0.567 MI. N. INT. RTE. 640 (N. TROUTVILLE)
TO 0.019 MI. N. INT. RTE. 636 (S. BUCHANAN)

B.P.R. DIV. NO.	STATE	FEDERAL AID ROUTE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.	TOTAL SHEETS
2	VA.	81	I-81-2(25)158 I-81-2(37)158 I-81-2(22)158	81	0081-011-010 RW-203 0081-011-010 G-303 0081-011-010 P-403		

TYPE OF PROJECT	FEDERAL AID PROJECT	STATE PROJECT	CONT.
R/W	I-81-2(25)158	0081-011-010 RW-203	I
GRADING	I-81-2(37)158	0081-011-010 G-303 B-623	II
PAVING	I-81-2(22)158	0081-011-010 P-403	III
BRIDGES	I-81-2(37)158	0081-011-010 B-621 B-623 B-622 B-601	II

PROJECT DESCRIPTIONS

PROJ 0081-011-010 B-623 (CONT II)
(1) PROP GRADE SEPARATION - NBL RTE 81 OVER RTE. 606
PROJ 0081-011-010 B-631 (CONT II)
(2) PROP GRADE SEPARATION - SBL RTE. 81 OVER RTE. 606
PROJ 0081-011-010 B-622 (CONT II)
(3) PROP. GRADE SEPARATION - RTE. 11 OVER N.B.L. & S.B.L. RTE 81
PROJ 0081-011-010 B-623 (CONT II)
(4) QUAD IOXIO BOX CULVERT - N.B.L. & S.B.L. RTE 81 & RTE 641 OVER LOONEY MILL CREEK
PROJ 0081-011-010 B-601 (CONT II)
(5) PROP GRADE SEPARATION - RTE. 636 OVER N.B.L. & S.B.L. RTE 81

END I-81-2(25)158
END PROJ. 0081-011-010 RW-203 RTE. 81
STA. 756+00.00 (OFF. REV. N.B.L.)

END I-81-2(37)158 CONTRACT I
END PROJ. 0081-011-010-G-303 RTE. 81
STA. 756+00.00 (OFF. REV. N.B.L.)

END I-81-2(22)158 CONTRACT III
END PROJ. 0081-011-010-P-403 RTE. 81
STA. 756+00.00 (OFF. REV. N.B.L.)

BEG I-81-2(12)163
BEG PROJ. 0081-011-010 RW-203 RTE. 81
STA. 756+00.00 (OFF. REV. N.B.L.)

BEG I-81-2(37)158 CONTRACT I
BEG PROJ. 0081-011-010-G-303 RTE. 81
STA. 756+00.00 (OFF. REV. N.B.L.)

END I-81-2(23)154
END PROJ. 0081-011-010-RW-202
STA. 1419+21.38 (OFF. REV. N.B.L.)

END I-81-2(24)154
END PROJ. 0081-011-010-G-302
STA. 1419+21.38 (OFF. REV. N.B.L.)

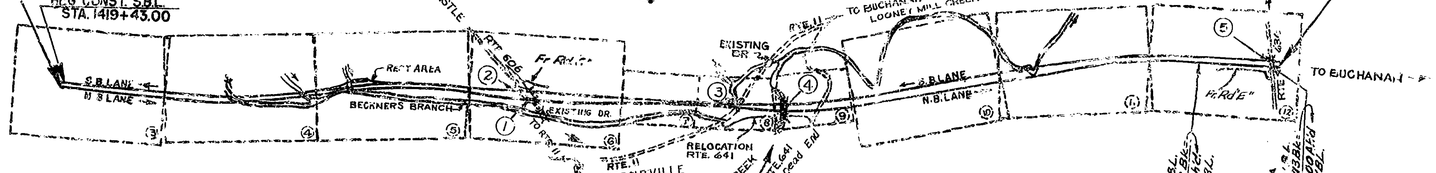
END I-81-2(24)154
END PROJ. 0081-011-010-P-402
STA. 1419+21.38 (OFF. REV. N.B.L.)

BEG I-81-2(25)158
BEG PROJ. 0081-011-010 RW-203 RTE. 81
STA. 1419+21.38 (OFF. REV. N.B.L.)

BEG I-81-2(37)158 CONTRACT I
BEG PROJ. 0081-011-010-G-303 RTE. 81
STA. 1419+21.38 (OFF. REV. N.B.L.)

BEG I-81-2(22)158 CONTRACT III
BEG PROJ. 0081-011-010-P-403 RTE. 81
STA. 1419+21.38 (OFF. REV. N.B.L.)

REG CONST. S.B.L.
STA. 1419+43.00



PROJ 0081-011-010 B-623 (Cont II)
PROP GRADE SEPARATION RTE. 11 OVER N.B.L. & S.B.L. RTE. 81
Beg Sta 15+63.73 Rte 606
End Sta 15+20.00 Rte 606
42' Cl Roadway
16°0 Min Vert. Cl. Rte. 606
Plan No. CEXX-11 Sheet No. 8
Plan No. CEXX-11 Sheet No. 18

PROJ 0081-011-010 B-623 (Cont II)
PROP GRADE SEPARATION RTE. 636 OVER N.B.L. & S.B.L. RTE. 81
Beg Sta 4401.00 Rte 81
End Sta 4437.00 Rte 81
Skew 90°
42' Cl Roadway
16°0 Min Vert. Cl. Rte. 606
Plan No. CEXX-11 Sheet No. 8

PROJ 0081-011-010 B-623 (Cont II)
PROP GRADE SEPARATION RTE. 11 OVER N.B.L. & S.B.L. RTE. 81
Beg Sta 20+15.73 Rte 606
End Sta 22+22.82 Rte 606
24 Cl. Roadway
17°0 Min. Vert. Cl. N.B.L. & S.B.L.
Plan No. CEXX-11 Sheet No. 18

PROJ 0081-011-010 B-601 (Cont II)
PROP GRADE SEPARATION RTE. 636 OVER N.B.L. & S.B.L. RTE. 81
Beg Sta 20+15.73 Rte 636
End Sta 22+22.82 Rte 636
24 Cl. Roadway
17°0 Min. Vert. Cl. N.B.L. & S.B.L.
Plan No. CEXX-11 Sheet No. 18

Off Rev. N.B.L.
Pt. 1637+05.86 Rte 81
Pt. 1637+05.86 Rte 81
Off Rev. N.B.L.
Pt. 1637+05.86 Rte 81
Pt. 1655+00.00 Rte 81
Off Rev. N.B.L.

*Not included in summation of equalities

Note: Length of Project Based on N.B. Lane

ROAD PROJECTS	EQUALITIES	LENGTH FT.	LENGTH MI.	STRUCTURE PROJECTS	LENGTH FT.	LENGTH MI.
0081-011-010 RW-203	+9.76 Ft.	25,325.11	4.796	0081-011-010 B-621	138.58	0.026
0081-011-010 G-303	+9.76 Ft.	25,151.20	4.763	0081-011-010 B-623	156.58	0.030
0081-011-010 P-403	+9.76 Ft.	25,186.53	4.770	0081-011-010 B-622	257.26	0.049
0081-011-010 G-303, B-621, B-623	+9.76 Ft.	25,325.11	4.796	0081-011-010 B-623	43.33	0.008
				0081-011-010 B-601	201.20	0.025

PLANS REVISED		
SHEET NO.	DATE	
#1B X-Sections 8-5	8-5-61	#2D June 5, 1962
#1, 1A, 1B, 1C, 1D, 1E, 1415 to 17	5-2-61	#2D 1/2 June 11, 1962
#6, 8, 9, 12	5-2-62	#2, 2, 5 July 3, 1962
#1, 1A, 1B, X-Sections 9-19-61	6-9-61	#2D 1A, 4B, 5A, 6A, 7A, 8A
#2B & 2C	7-11-61	2C, 2D, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A Also 12 Rev.
#1, 1A, 1B, 2D, 3, 4, 5, 5A, 6, 7, 8, 9, 10, 11, 12 X-Sections 8-25-61 Rev.	11-1-61	2, 2D, 3A, 4A, 5, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A & X-Sect.
#6	1-2-62	2B, 2C, 2D Apr. 4, 1963
1A, 1B, 1C, 1D, 1E, 12		4, June 17, 1963
1B, 1C X-Section #13	2B-62	2B, 2C, 1963
#1, 2D, 8	2-7-62	2C, 2H, 3, 4, 5, 5A, 1, 1A, 3, 9, 10, 11, 12, Apr. 19, 1963
2C, 5	8-23-63	

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
12/1 DATE	LOCATION AND DESIGN ENGINEER
12/1 DATE	ASSISTANT CHIEF ENGINEER
12/1 DATE	ASSISTANT CHIEF ENGINEER
12/1 DATE	DEPUTY COMMISSIONER AND CHIEF ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION	
12-19-63 DATE	COMMISSIONER

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	
8/27/64 DATE	LOCATION AND DESIGN ENGINEER
8-27-64 DATE	ASSISTANT CHIEF ENGINEER
8-28-64 DATE	ASSISTANT CHIEF ENGINEER

APPROVED FOR CONSTRUCTION	
8/28/64 DATE	DEPUTY COMMISSIONER AND CHIEF ENGINEER

APPROVED	
DATE	DIVISION ENGINEER BUREAU OF PUBLIC ROADS DEPARTMENT OF COMMERCE

SCALES (PLAN, 1 IN = 50 & 100 FT.
PROFILE, HOR. 1 IN = 50 & 100 FT., VERT. 1 IN = 10 FT.
LAYOUT, 1 IN = 1500 FT.

Note: This project is to be constructed in accordance with the Virginia Department of Highways Road and Bridge Specifications dated April 1, 1958, and Road Designs and Standards dated November 1, 1953; revised November 1, 1958, and including all subsequent revisions.

All curves are to be superelevated in accordance with Standard VG-2 except where otherwise noted.

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY, TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
UNFENCED PROPERTY LINE
FENCED PROPERTY LINE
TRAVELED WAY
GUARD RAIL
RETAINING WALL
RAILROADS
BASE OR SURVEY LINE

LEVEE OR EMBANKMENT
BRIDGES
CULVERTS
DROP INLET
TROLLEY POLES
POWER POLES
TELEPHONE OR TELEGRAPH POLES
MARSH
HEDGE
WOODS
GROUND ELEVATION
GRADE ELEVATION
POLES WITHIN CONSTRUCTION LIMITS

SUPERVISOR E. G. Dix Jr.
DESIGNED BY W. F. Harris

REVISED BY

RES. ENGR. ADVANCE PLANS
CONST. ENGR. COMPLETED PLANS

RTE 81 CLASS I-D-R-INTERSTATE-4470 VPD 645 T.T 8% (1490-M 70)

RTE 11 CLASS I-D-U-M 1000 VPD TYPE - (150-M-60)

1 // 1 A 7317

A 7317

1 1 3 7 A