



WEST VIRGINIA



2012 ESTIMATE
OF THE COST TO COMPLETE
THE APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM
IN THE STATE OF WEST VIRGINIA

May 2012
(Data as of September 30, 2011)

Prepared by the West Virginia Department of Transportation

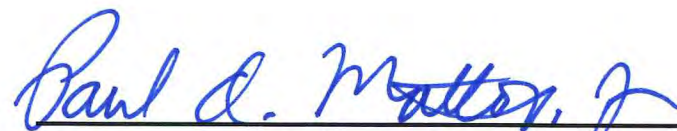
In Cooperation with the

U.S. Department of Transportation
Federal Highway Administration
Appalachian Regional Commission
and the

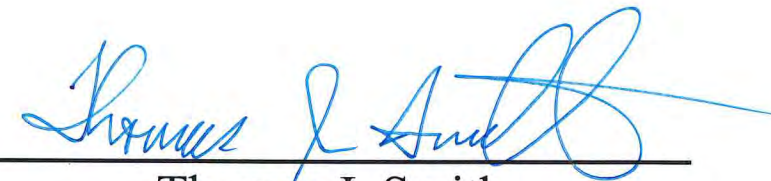
Nick J. Rahall, II Appalachian Transportation Institute

This 2012 Estimate of the Cost of Completing the Appalachian Development Highway System
in the State of West Virginia as of September 30, 2011 was prepared in accordance with the
2012 ADHS Cost Estimate Guidelines and Software Instruction Manual by the
West Virginia Department of Transportation in cooperation with the
Federal Highway Administration and the Appalachian Regional Commission.

It is West Virginia's full intention to construct all of the Appalachian Development Highway System
corridors herein and to the standards indicated in this Estimate.



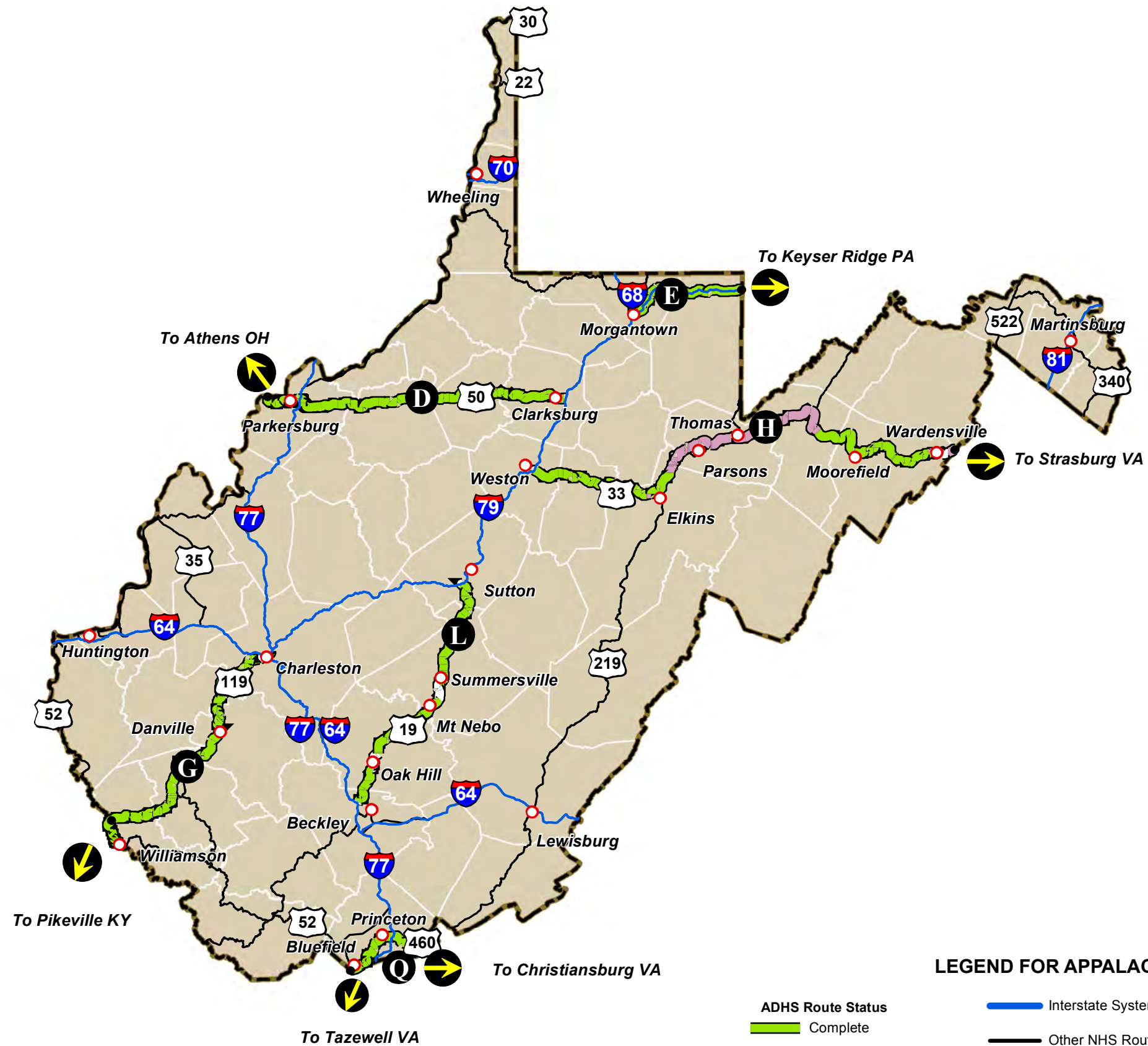
Paul A. Mattox, Jr.
Secretary/Commissioner
West Virginia
Division of Highways



Thomas J. Smith
Division Administrator
Federal Highway Administration

WEST VIRGINIA PORTION OF APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM

STATE MAP OF WEST VIRGINIA



Lambert Conformal Conic regional projection
based on parallels 33 N and 45 N,
central meridian 96 W, -10 Rotation

LEGEND FOR APPALACHIAN ROUTES

ADHS Route Status

- █ Complete
- █ To be Completed
- █ Nonparticipating

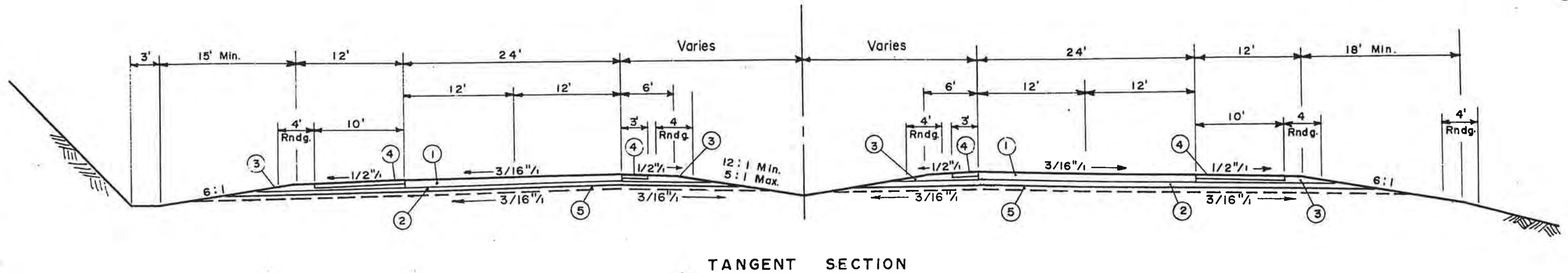
- Interstate System
- Other NHS Route

- Named Control Point
- State Line Control Point
- ARC Region

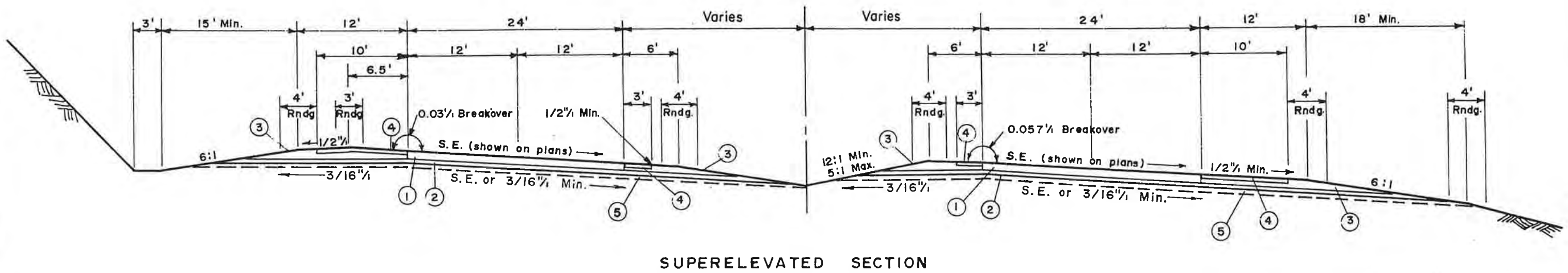
TABLE A
Appalachian Corridor Segment Descriptions

State/Commonwealth of West Virginia

Corridor Letter	Principal Existing Route Numbers	Segment Descriptions	Eligible (miles)	Ineligible (miles)
D	US 50	Ohio-West Virginia State Line at Parkersburg to I-77	9.8	0
D	US 50	I-77 Interchange	0	0.1
D	US 50	I-77 to Clarksburg and thru Clarksburg	68.1	1.5
D	US 50	Clarksburg to I-79 and I-79 Interchange	2.3	0.5
E	I-68	Interstate 79 near Morgantown to West Virginia-Maryland State Line	32.2	0
G	US 119/WV 214	Kentucky-West Virginia State Line at Williamson to I-64 in Charleston	78.2	0
G	US 119/WV 214	I-64 Interchange	0	1.4
H	US 33	I-79 Interchange near Weston	0	0.4
H	US 33/WV 55	I-79 to Wardensville	130.1	0
H	US 33/WV 55	Wardensville to 1.6 miles west of WV/VA State Line	0	1.5
H	US 33/WV 55	1.6 miles west of WV/VA State Line to WV/VA State Line	1.6	0
L	US 19	I-77 Interchange North of Beckley	0	0.5
L	US 19	I-77 North of Beckley to Oak Hill	9.4	0
L	US 19	Thru Oak Hill	0	4.5
L	US 19	Oak Hill to Mt. Nebo	21.7	0
L	US 19	Mt. Nebo to Summersville	0	4.0
L	US 19	Summersville to I-79 near Sutton	29.4	0
L	US 19	I-79 Interchange	0	0.4
Q	US 460	Virginia-West Virginia State Line at Bluefield to I-77 at Princeton	15.5	0
Q	US 460	I-77 Interchange at Princeton	0	0.4
Q	US 460	I-77 at Princeton to West Virginia-Virginia State Line	11.3	0
		Total	409.6	15.2



TANGENT SECTION



SUPERELEVATED SECTION

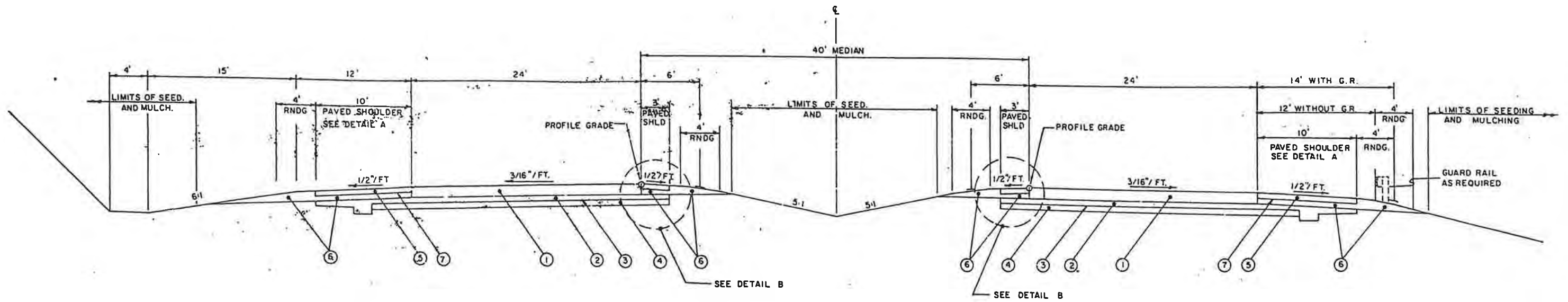
① 9" Portland Cement Concrete	Section No. I	Section No. I-A
② 6" Class 2 Aggregate Base Course		
③ Class 1 Aggregate Base Course		
④ 3" Penetration Macadam Shoulders		
⑤ 6" Subgrade		

Section No. I-B uses
① 10" Portland Cement Concrete

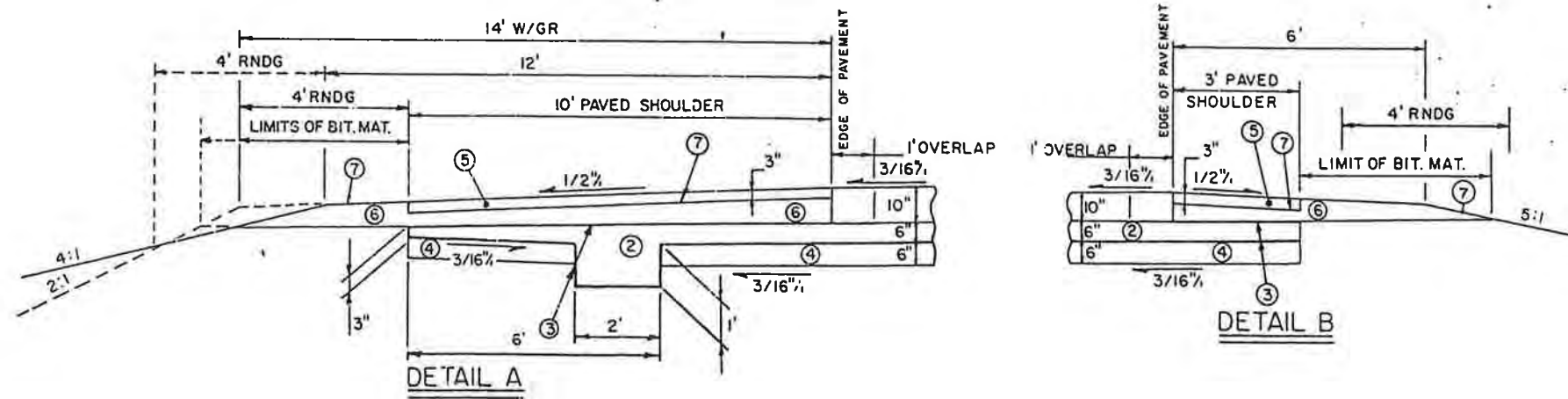
NOTE: Typical section has both "Full Control" and "Partial Control" of access

SECTION NO. I, I-A & I-B

WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
APPALACHIAN HIGHWAY SYSTEM
TYPICAL ROADWAY SECTION



TANGENT SECTION

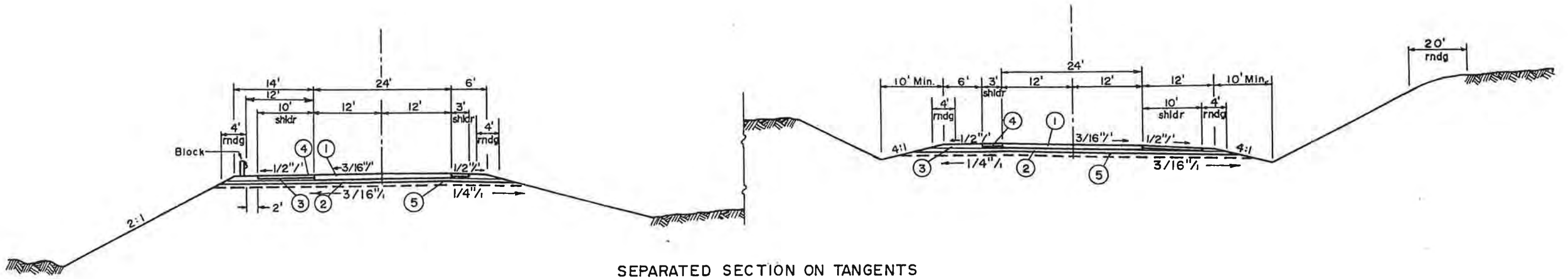


NOTE: Typical section has both "Full Control" and "Partial Control" of access

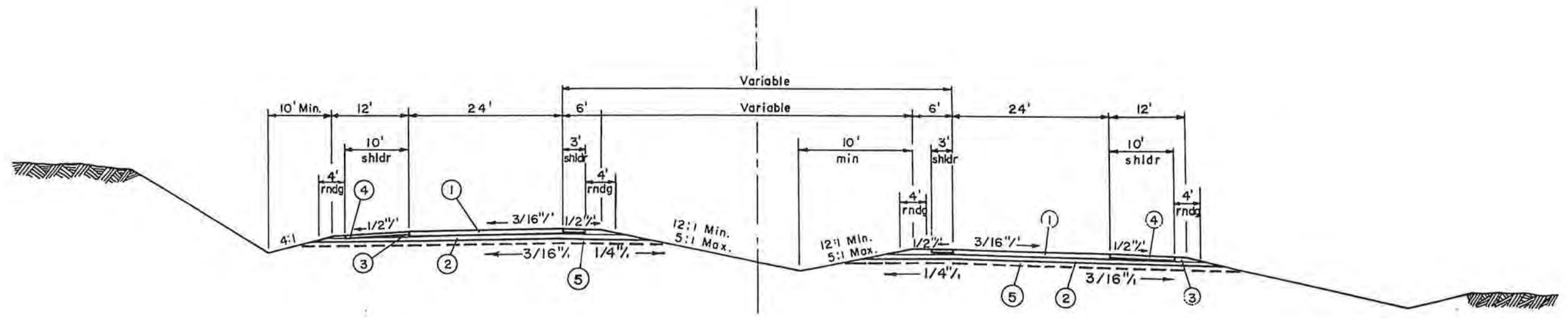
- ① ITEM 501-05(10") NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT; PER S.Y.
- ② ITEM 311-06 OPEN GRADED FREE DRAINING BASE COURSE; PER C.Y.
- ③ ITEM 207-34; FABRIC FOR SEPARATION, PER S.Y.
- ④ ITEM 207-02; SUBGRADE, PER C.Y.
- ⑤ ITEM 401-01(2); HOT-LAID BITUMINOUS CONCRETE BASE COURSE, PER TON
- ⑥ ITEM 307-01; CLASS 1 AGGREGATE BASE COURSE, PER C.Y.
- ⑦ ITEM 409-02; BITUMINOUS MATERIAL, PER GAL.

SECTION NO. 1C

West Virginia
 Department of Transportation
 Appalachian Highway System
 Typical Roadway Section



SEPARATED SECTION ON TANGENTS



NORMAL SECTION - DIFFERENTIAL GRADE

LEGEND

- ① 9" Portland Cement Concrete
- ② 6" Class 2 Aggregate Base Course
- ③ Class 1 Base Course
- ④ 3" Penetration Macadam Shoulder
- ⑤ 6" Subgrade

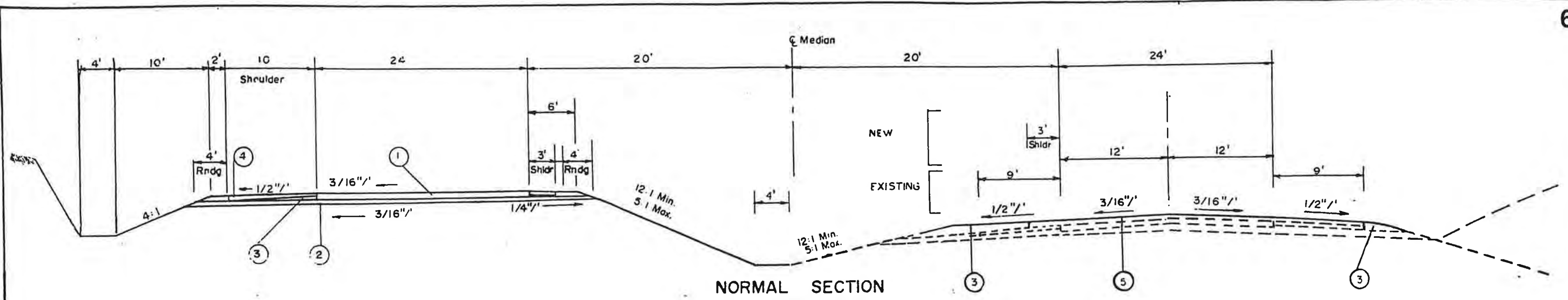
Section No. 2	Section No. 2-A
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Section No. 2-B Uses
① 10" Portland Cement Concrete

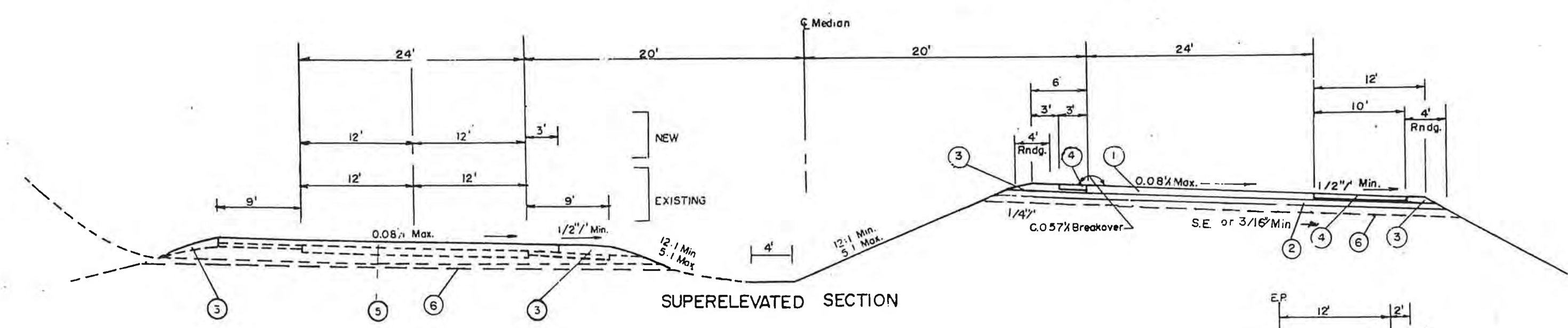
NOTE: Typical section has both "Full Control" and "Partial Control" of access

SECTION NO. 2, 2-A & 2-B

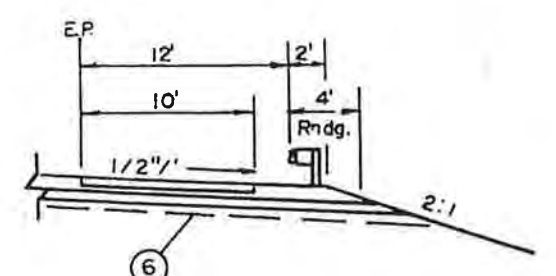
WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
APPALACHIAN HIGHWAY SYSTEM
TYPICAL ROADWAY SECTIONS



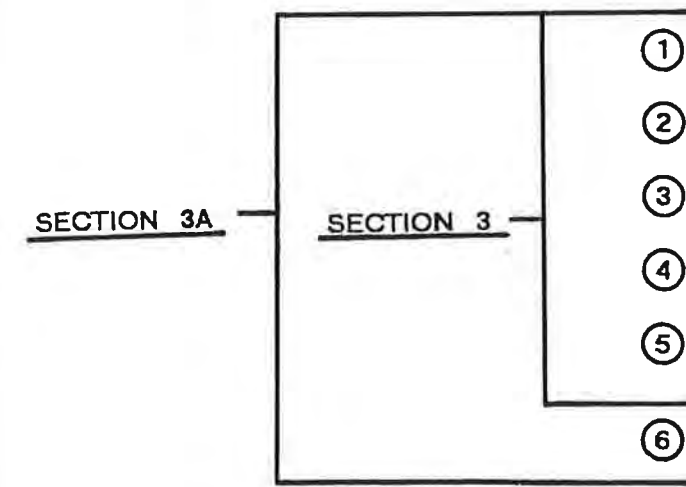
NORMAL SECTION



SUPERELEVATED SECTION



SHOULDER WITH GUARDRAIL



- ① 9" Portland Cement Concrete
- ② 6" Class 2 Base Course
- ③ Class 1 Base Course
- ④ 3" Penetration Macadam Shoulder
- ⑤ 5" Asphaltic Concrete on sections not previously resurfaced
3" Asphaltic Concrete on previously resurfaced sections
- ⑥ 6" Subgrade

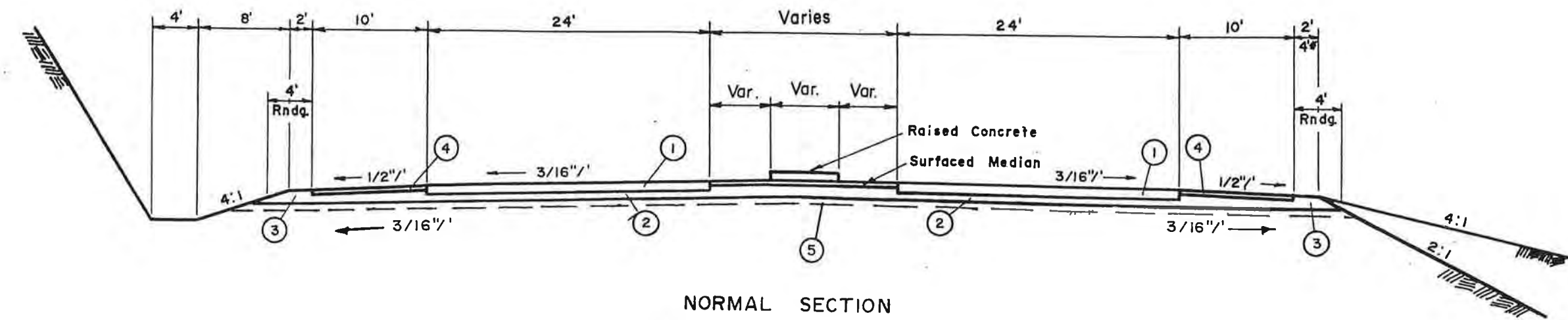
- SECTION 3B**
- ① 10" Portland Cement Concrete
 - ② & ③ Class 1 Agg. Base Course
 - ④ 3" Asphaltic Concrete Shoulders
 - ⑤ 9" Portland Cement Concrete
 - ⑥ 6" Subgrade

SECTION 3C
Original two (2) lanes were as in Section No. 3
New constructed pavement uses full depth asphaltic concrete as in section no. 8A

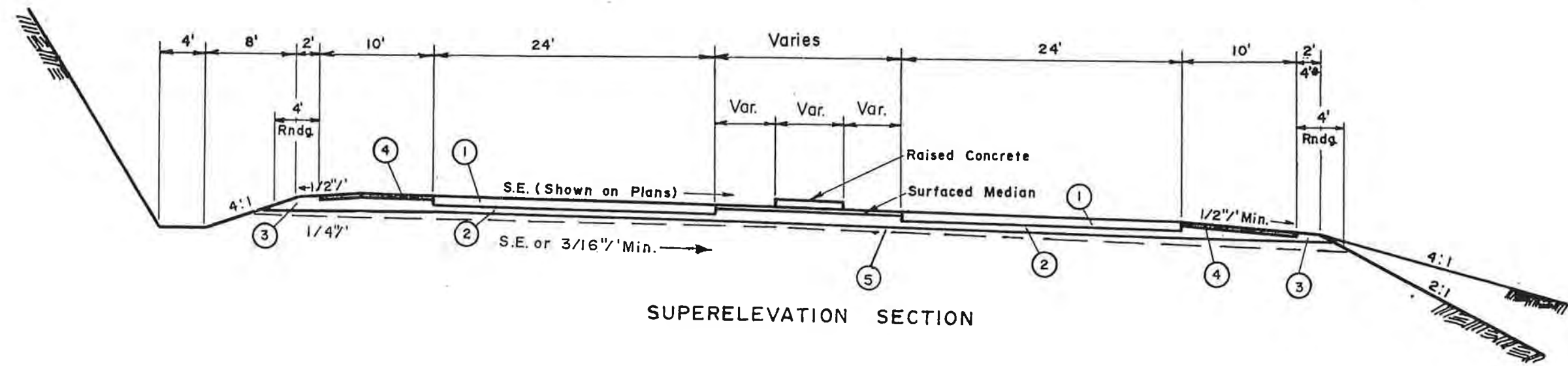
WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
APPALACHIAN HIGHWAY SYSTEM
TYPICAL ROADWAY SECTIONS
40' MEDIAN

NOTE: Typical section has both "Full Control" and "Partial Control" of access

SECTION NO. 3, 3A, 3B & 3C



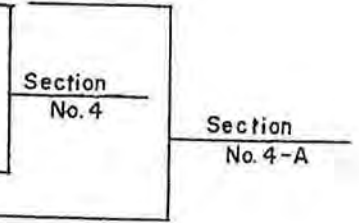
NORMAL SECTION



SUPERELEVATION SECTION

LEGEND

- ① 9" Portland Cement Concrete
- ② 6" Type II Base Course
- ③ Shoulder Base
- ④ 3" Penetration Macadam Shoulder
- ⑤ 6" Subgrade

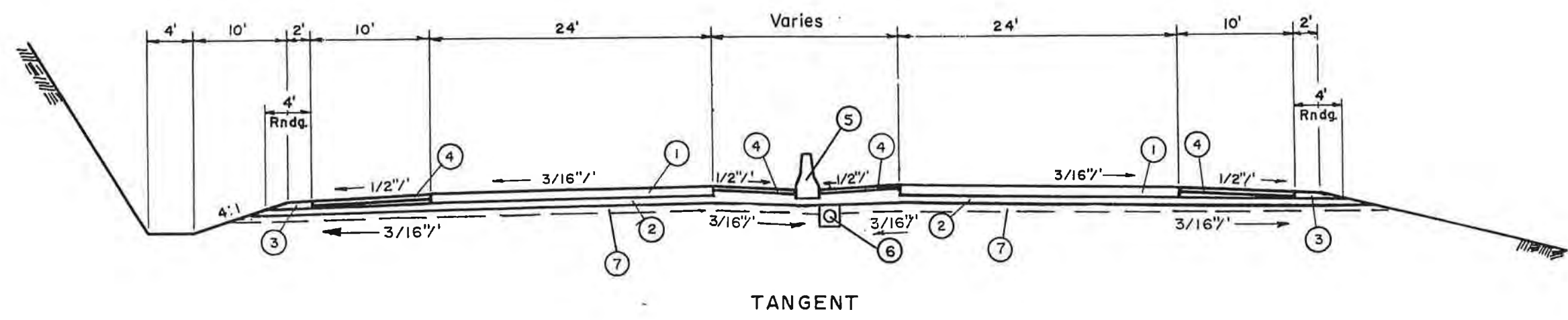


Section No. 4-B Uses
 ① Asphaltic Concrete Pavement

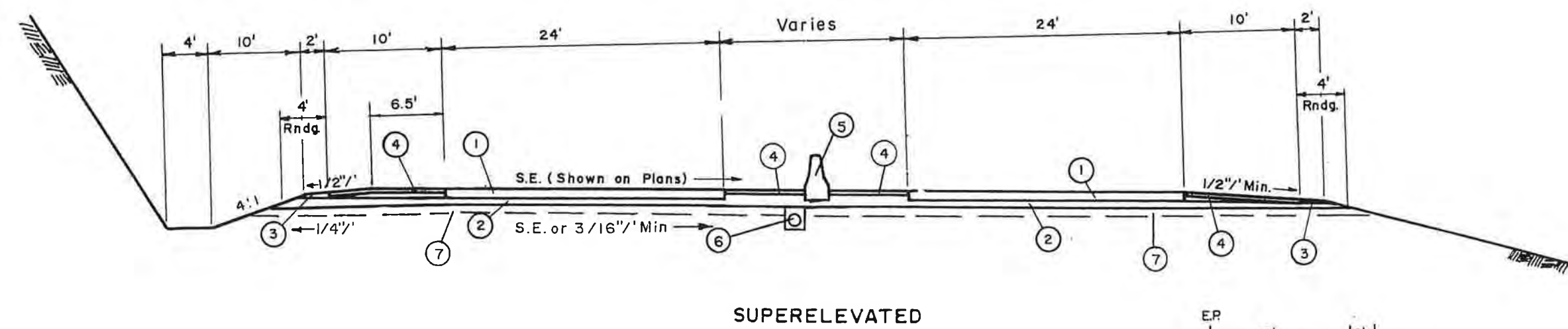
NOTE: Typical section has both "Full Control" and "Partial Control" of access

SECTION NO. 4, 4-A & 4-B

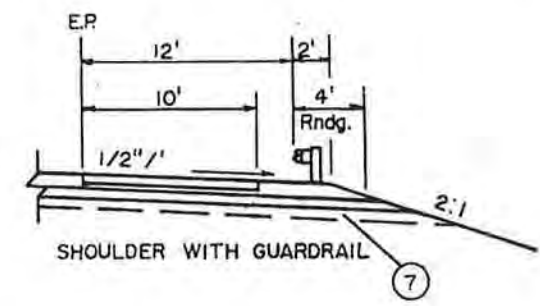
WEST VIRGINIA
 DEPARTMENT OF TRANSPORTATION
 APPALACHIAN DEVELOPMENT
 HIGHWAY SYSTEM
 TYPICAL ROAD SECTIONS



TANGENT



SUPERELEVATED



Section No. 5-B uses
 ① 10" Portland Cement Concrete

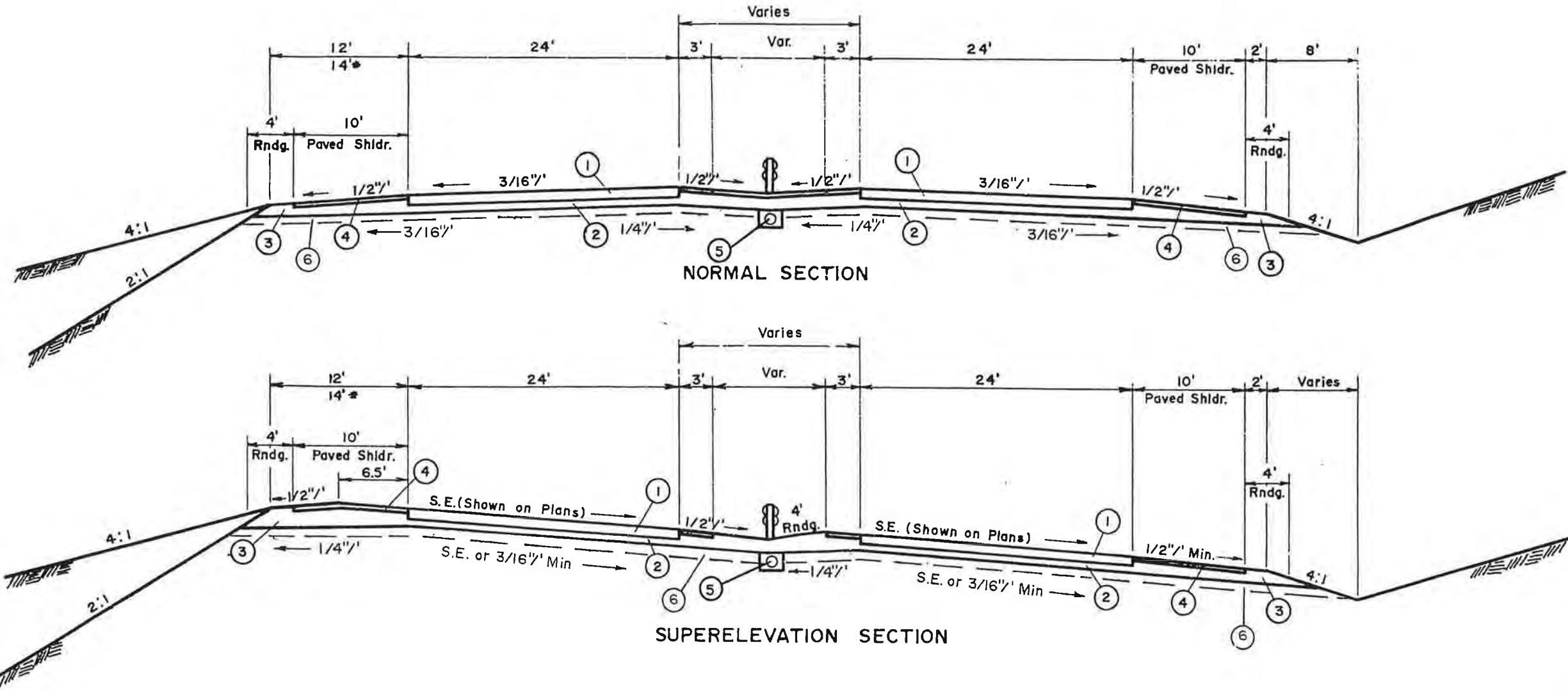
LEGEND

①	9" Portland Cement Concrete
②	6" Class 2 Base Course
③	Class 1 Base Course
④	3" Asphaltic Concrete Shoulder
⑤	Type V or VI Median
⑥	6" Underdrain
⑦	6" Subgrade

NOTE: Typical section has both "Full Control" and "Partial Control" of access

SECTION NO. 5, 5-A & 5-B

WEST VIRGINIA
 DEPARTMENT OF TRANSPORTATION
 APPALACHIAN HIGHWAY
 SYSTEM
 TYPICAL ROAD SECTIONS

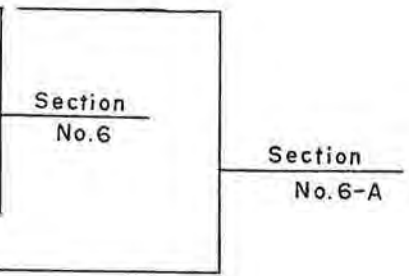


NORMAL SECTION

SUPERELEVATION SECTION

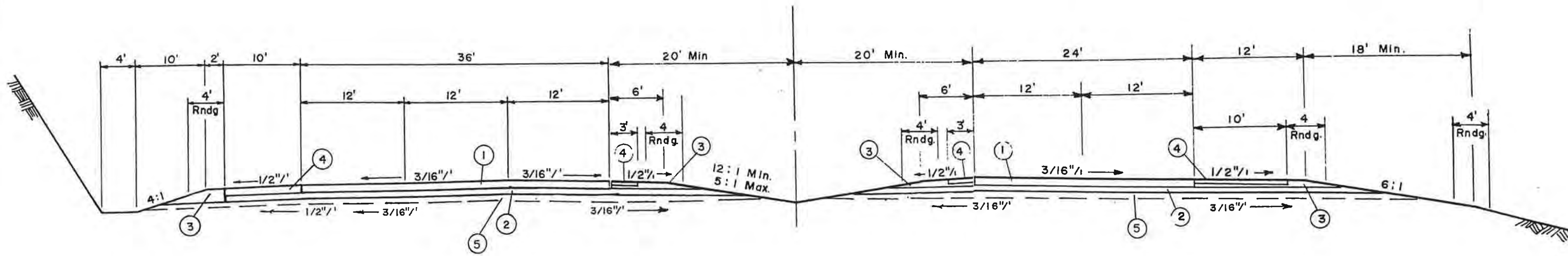
LEGEND

- ① 9" Portland Cement Concrete
- ② 6" Type II Base Course
- ③ Shoulder Base
- ④ 3" Penetration Macadam Shoulder
- ⑤ 6" Underdrain
- ⑥ 6" Subgrade

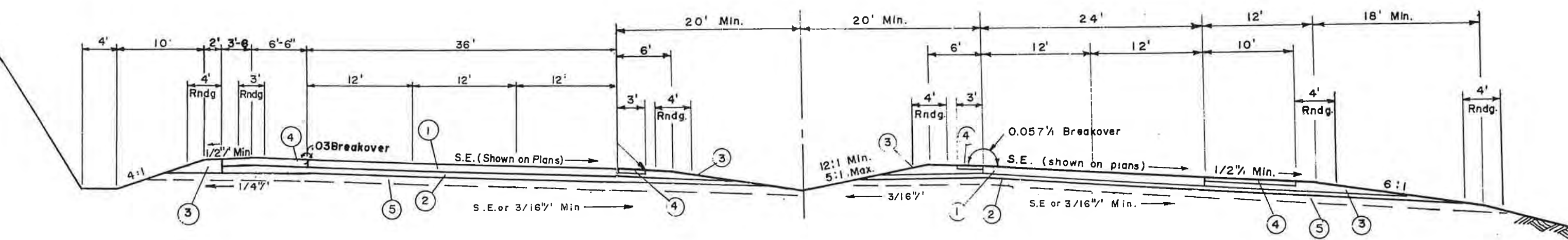


NOTE: Typical section has both "Full Control" and "Partial Control" of access

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 APPALACHIAN DEVELOPMENT
 HIGHWAY SYSTEM
 TYPICAL ROAD SECTIONS



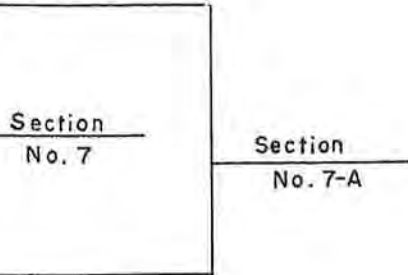
TANGENT SECTION



SUPERELEVATED SECTION

LEGEND

- ① 9" Portland Cement Concrete
- ② 6" Class 2 Aggregate Base Course
- ③ Class 1 Aggregate Base Course
- ④ 3" Penetration Macadam Shoulders
- ⑤ 6" Subgrade



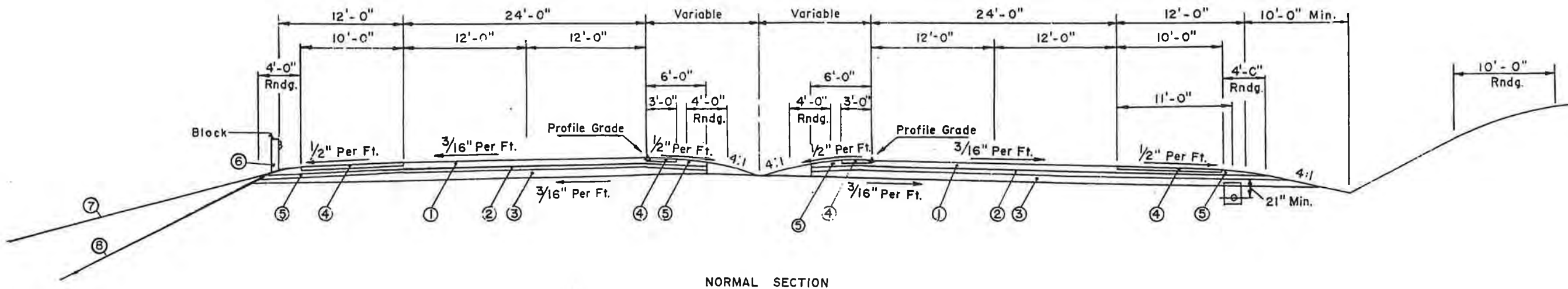
Section No. 7-B Uses

- ① 10" Portland Cement Concrete

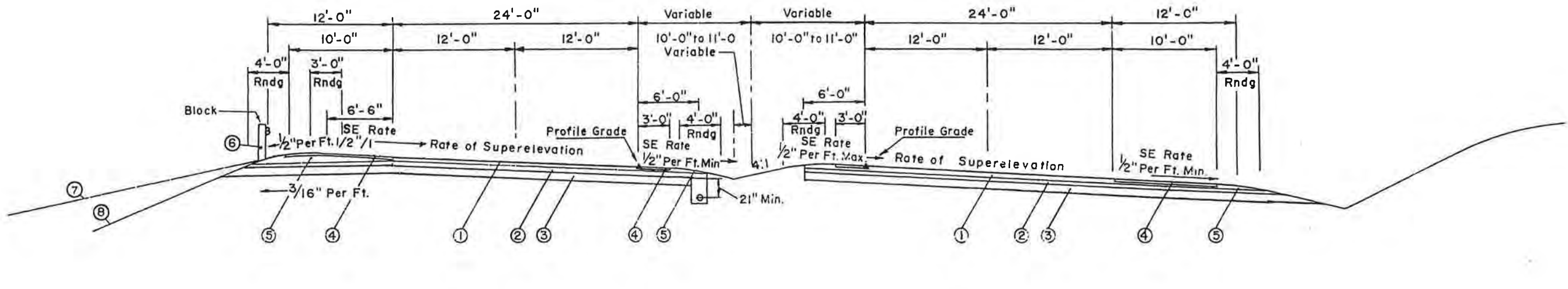
NOTE: Typical section has both "Full Control" and "Partial Control" of access

SECTION NO. 7, 7-A & 7-B

WEST VIRGINIA
 DEPARTMENT OF TRANSPORTATION
 APPALACHIAN HIGHWAY
 SYSTEM
 TYPICAL ROAD SECTIONS



NORMAL SECTION



SUPERELEVATED SECTION

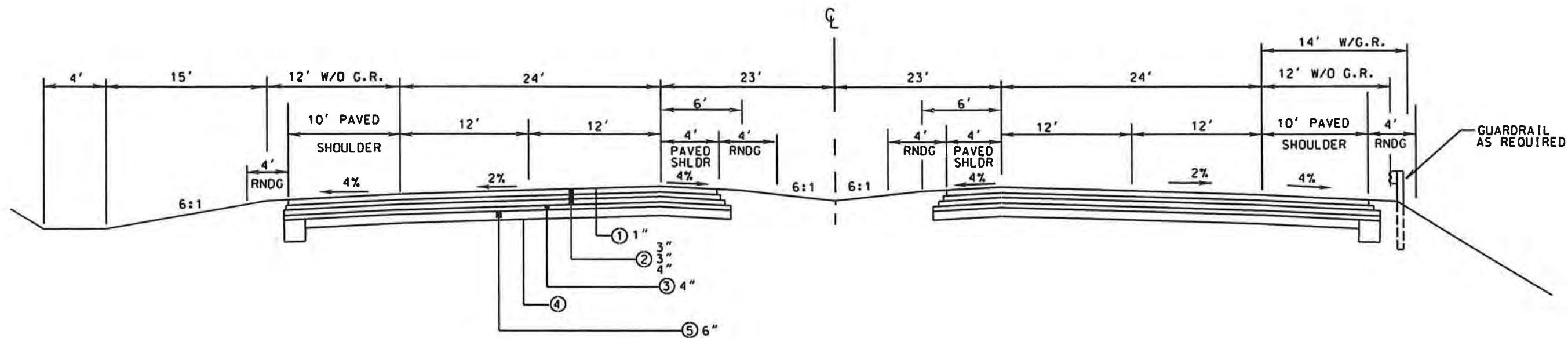
Note: Pavement and Base types are not standard - shown for example only.

NOTE: Typical section has both "Full Control" and "Partial Control" of access

- ① Asphaltic Concrete Pavement
- ② Base Course
- ③ Subbase
- ④ Paved Shoulder
- ⑤ Shoulder Base Course
- ⑥ Guardrail to be placed on all 2:1 slope
- ⑦ 4:1 Slope fills 10'-0" or as shown on cross-sections
- ⑧ 2:1 Slope fills over 10'-0" or shown on cross-sections

Section No. 8-A Uses Full Depth Asphaltic Concrete Pavement

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 APPALACHIAN HIGHWAY SYSTEM
TYPICAL ROADWAY SECTIONS
FLEXIBLE



NORMAL SECTION
MAINLINE

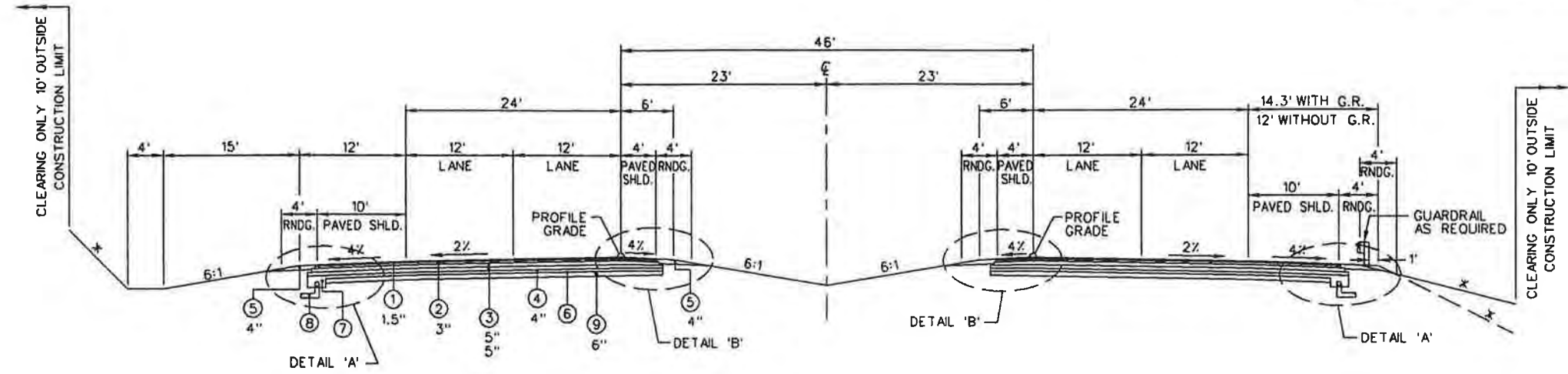
ITEM	DESCRIPTION	UNITS
①	402-01 HMA SKID RESISTANT PAVEMENT	TN
②	401-011 HMA BASE COURSE	TN
③	311-6 OPEN GRADED FREE DRAINING BASE COURSE	CY
④	207-34 FABRIC FOR SEPARATION	SY
⑤	207-02 SUBGRADE	CY
⑥	UNCLASSIFIED EMBANKMENT	CY
⑦	606-29 FREE DRAINING BASE (FDB) TRENCH	FT
⑧	308-01 CLASS I AGGREGATE	TN
⑨	401-02 HMA WEARING COURSE	TN
⑩	307-01 CLASS I AGGREGATE BASE COURSE	CY
⑪	409-02 BITUMINOUS MATERIAL	GAL
⑫	610-03 COMBINATION CONCRETE CURB AND GUTTER	FT
⑬	408-02 BITUMINOUS MATERIAL	GAL
⑭	229-01 SHOULDERS AND DITCHES	MI

SECTION NO. 8 B

NOTE: Typical section has both "Full Control" and "Partial Control" of access

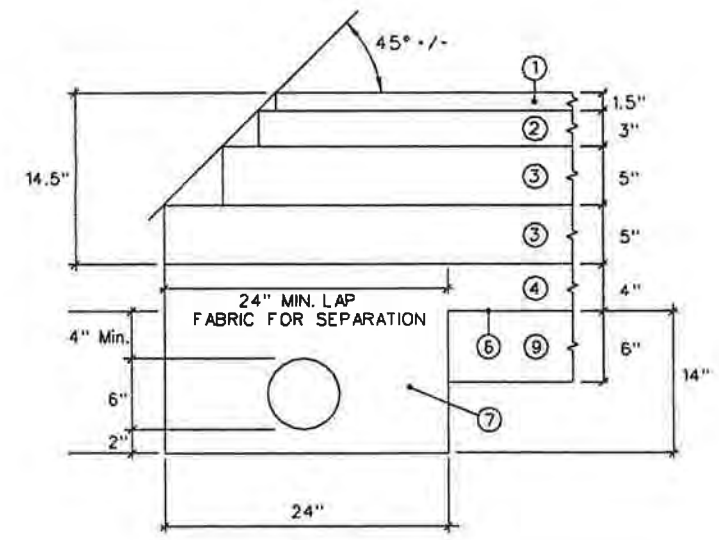
Not to scale

ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV		H				1	3



CORRIDOR H
 NORMAL SECTION
 STA. 000+00.00 TO STA. 000+00.00
 STA. 000+00.00 TO STA. 000+00.00
 STA. 000+00.00 TO STA. 000+00.00
 STA. 000+00.00 TO STA. 000+00.00

SECTION NO. 8 C

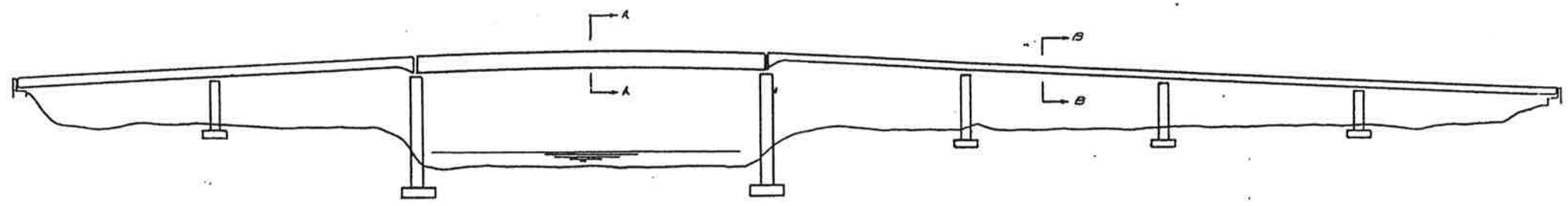


PAVEMENT STEPPING DETAIL

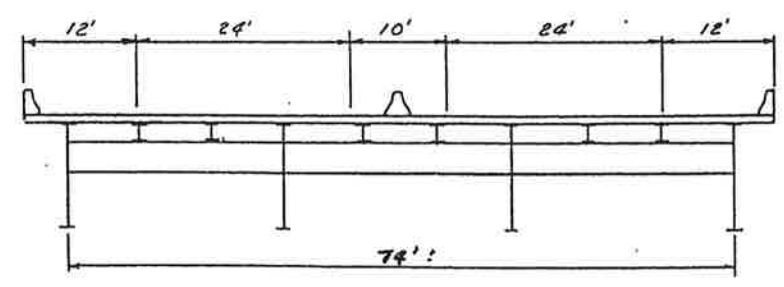
- ① ITEM NO. 402001-011 (OR -012) SUPERPAVE HOT-MIX ASPHALT SKID RESISTANT PAVEMENT, STONE OR GRAVEL (OR SLAG), TYPE 9.5 TN
- ② ITEM NO. 401001-011 (OR -012) SUPERPAVE HOT-MIX ASPHALT BASE COURSE, STONE OR GRAVEL (OR SLAG), TYPE 19 TN
- ③ ITEM NO. 401001-011 (OR -012) SUPERPAVE HOT-MIX ASPHALT BASE COURSE, STONE OR GRAVEL (OR SLAG), TYPE 37.5 TN
- ④ ITEM NO. 311006-001 OPEN GRADED FREE DRAINING BASE COURSE CY
- ⑤ ITEM NO. 307001-000 AGGREGATE BASE COURSE, CLASS 10 CY
- ⑥ ITEM NO. 207034-000 FABRIC FOR SEPARATION SY
- ⑦ ITEM NO. 606029-001 FREE DRAINING BASE TRENCH LF
- ⑧ ITEM NO. 606030-001 OUTLET PIPE LF
- ⑨ ITEM NO. 207002-000 SUBGRADE CY

* SLOPES VARY, SEE CROSS SECTIONS
 THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CORRIDOR H
 TYPICAL SECTIONS
 DAVIS TO BISMARCK

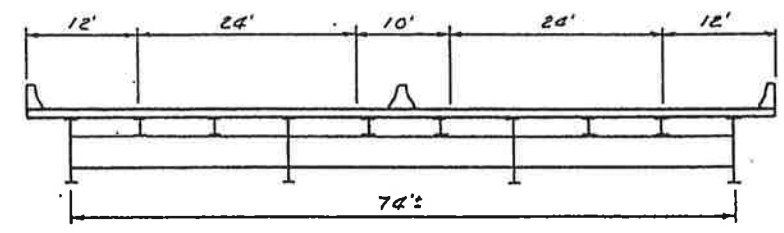
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY



ELEVATION

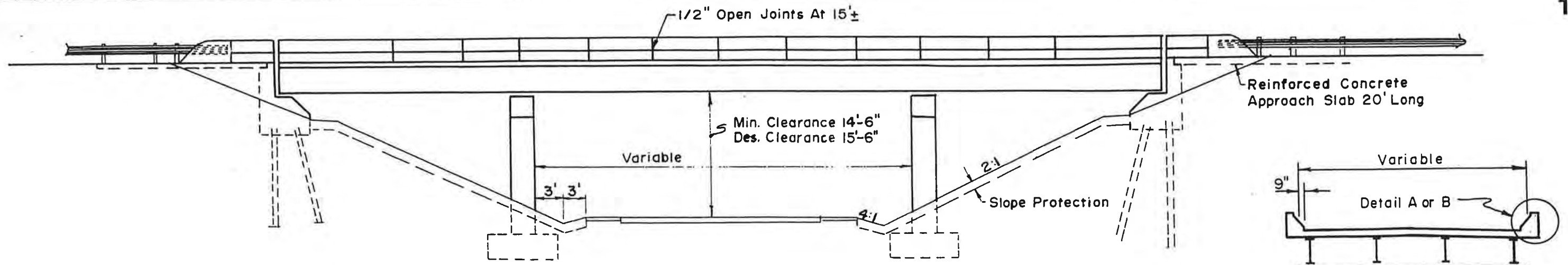


SECTION A-A

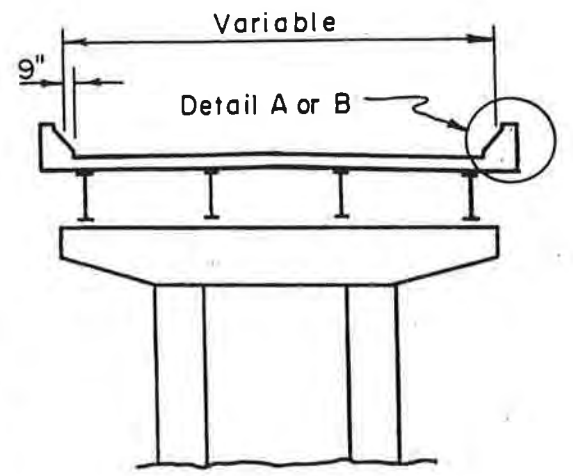


SECTION B-B

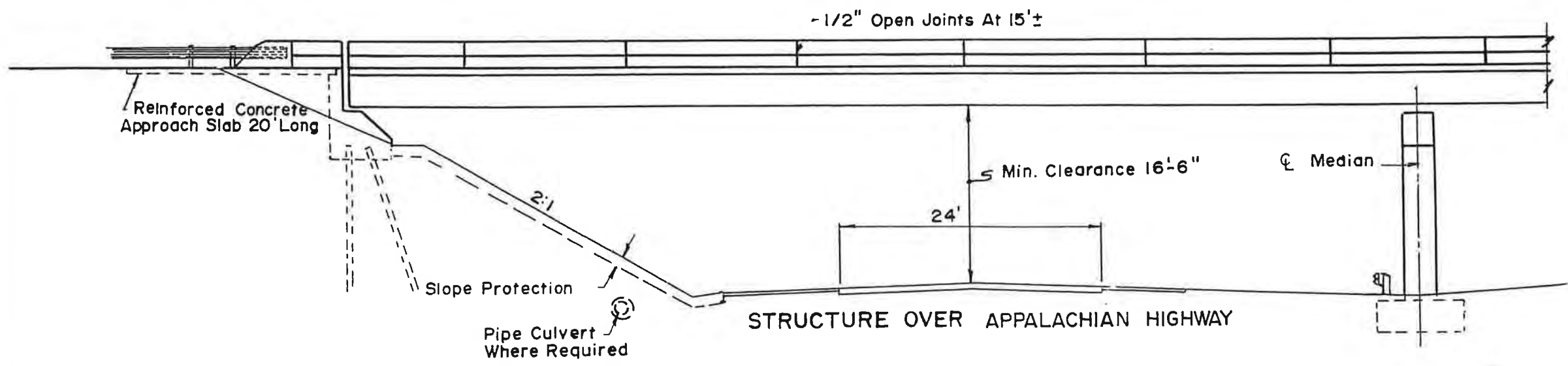
WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
APPALACHIAN HIGHWAY SYSTEM
LITTLE KANAWHA RIVER BRIDGE
PARKERSBURG



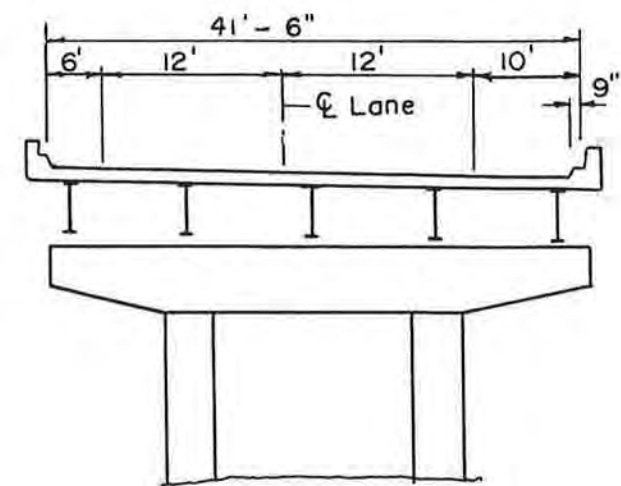
STRUCTURE CARRYING APPALACHIAN HIGHWAY



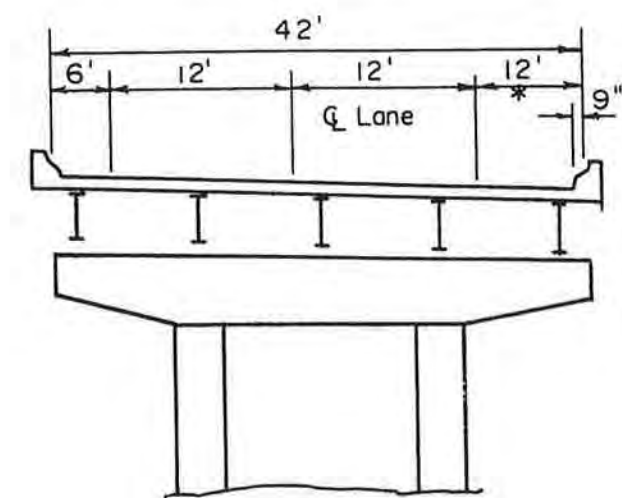
STRUCTURE CARRYING OTHER HIGHWAY



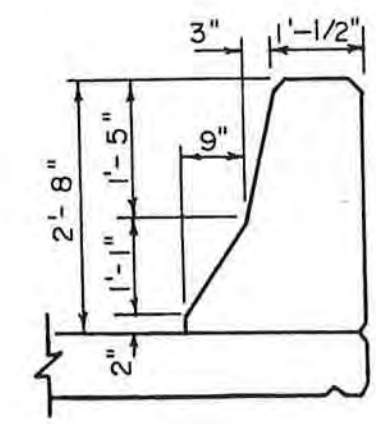
STRUCTURE OVER APPALACHIAN HIGHWAY



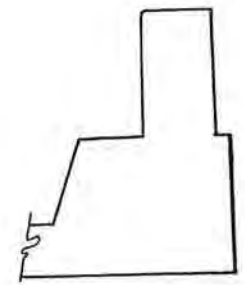
STRUCTURE CARRYING APPALACHIAN HIGHWAY



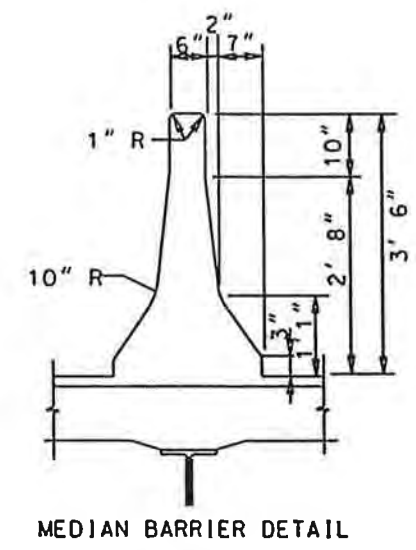
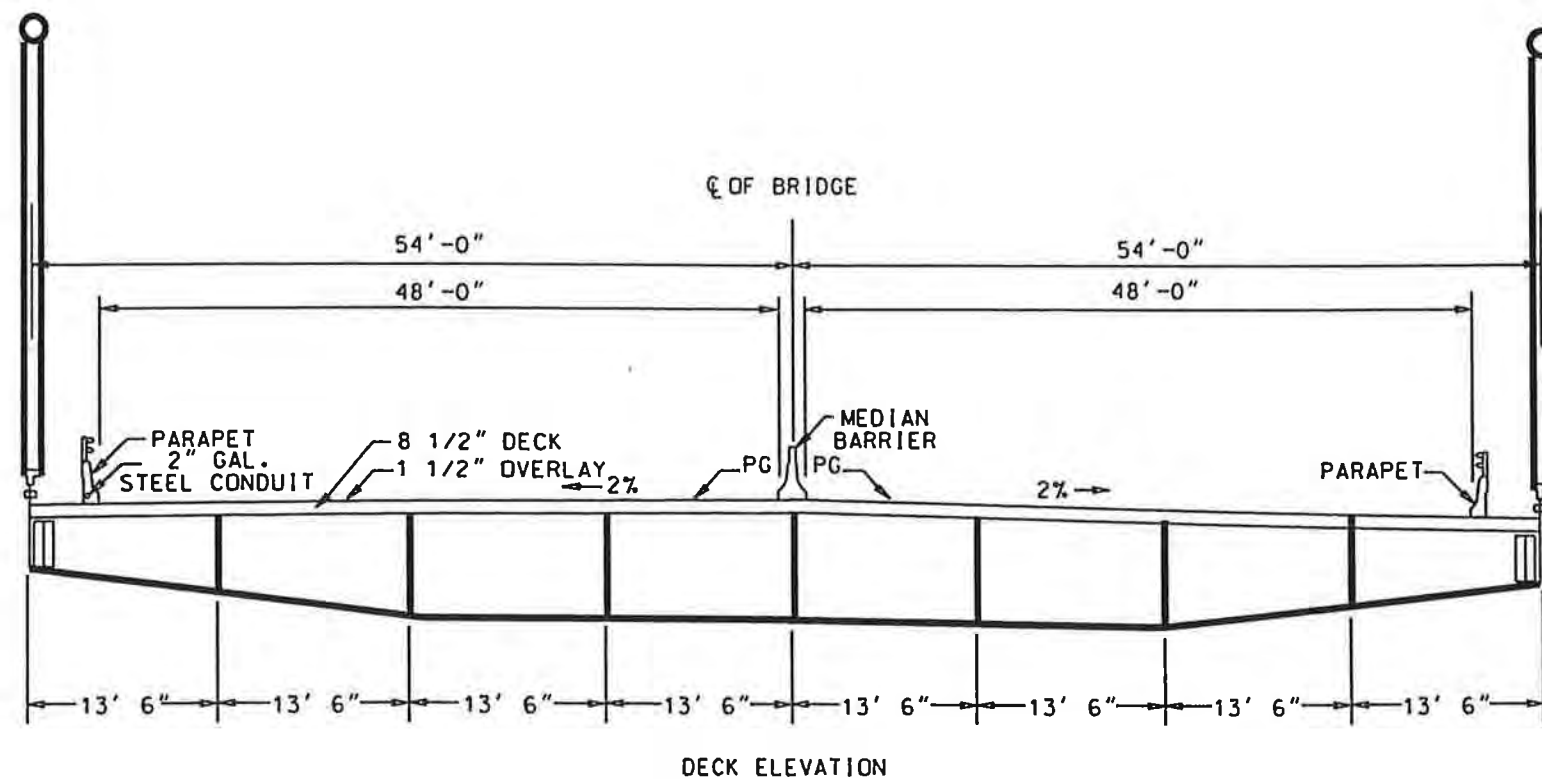
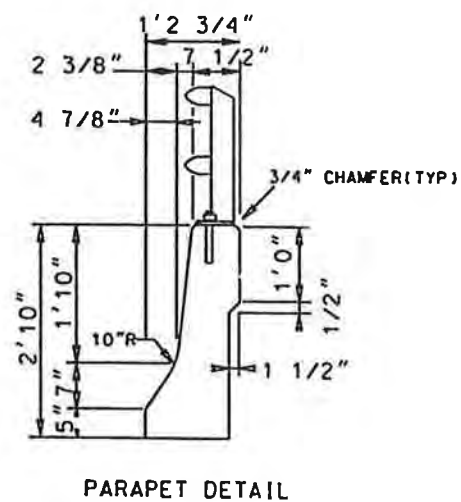
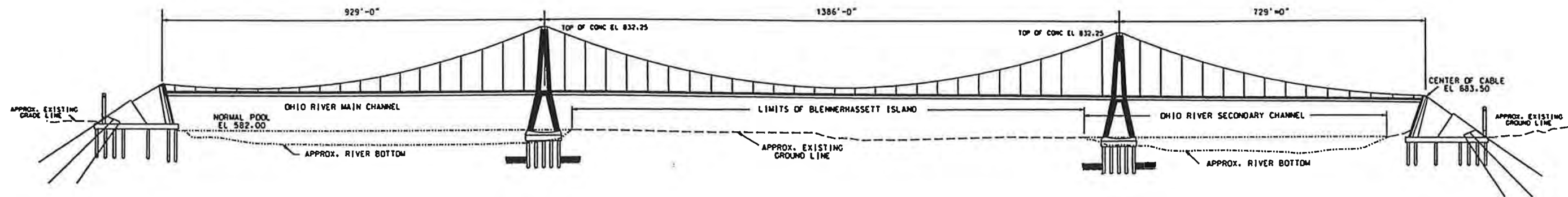
* 18' With Climbing Lane.



DETAIL A

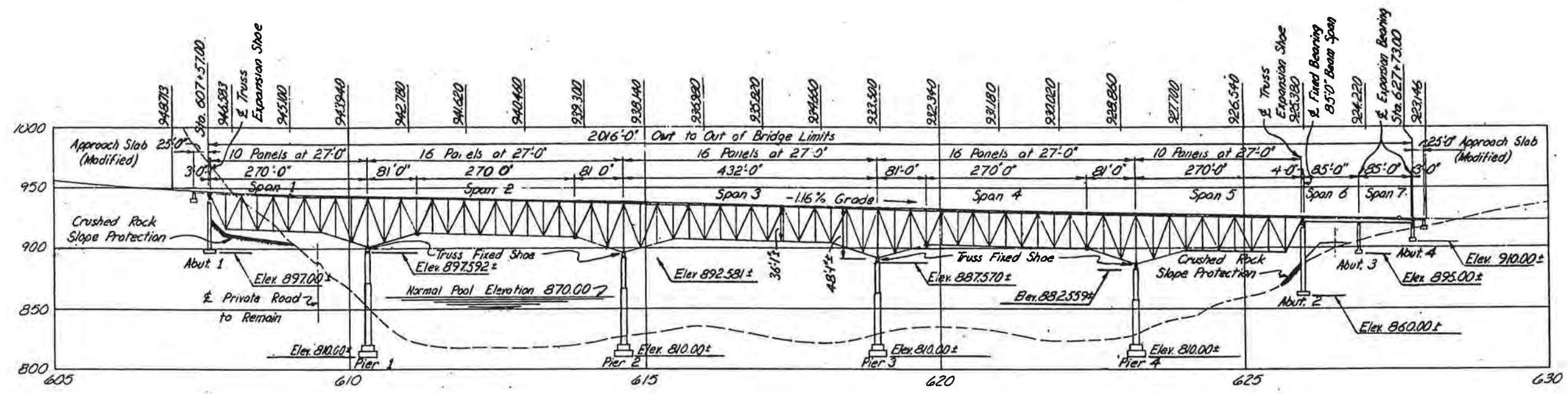


DETAIL-B

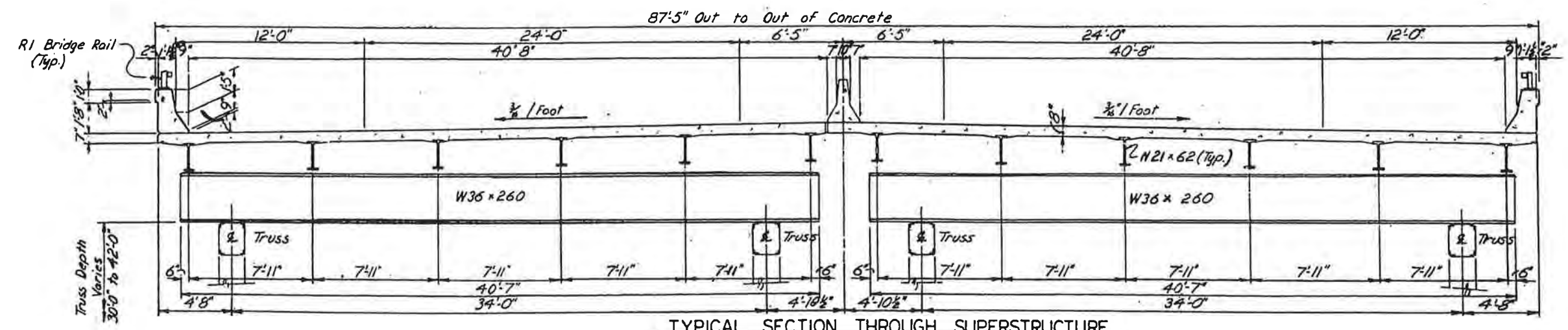


TYPICAL No. 11

WEST VIRGINIA
 DEPARTMENT OF TRANSPORTATION
 CORRIDOR D OVER OHIO RIVER
 PARKERSBURG



PROFILE ALONG \square SURVEY
SCALE: 1" = 100'

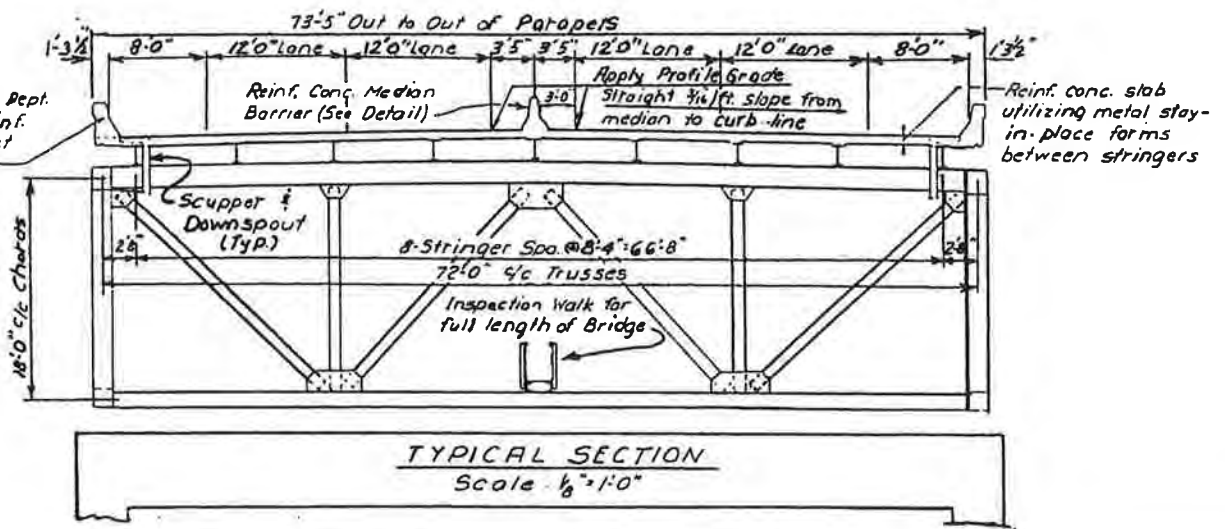
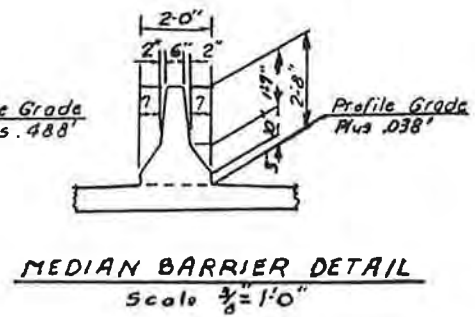
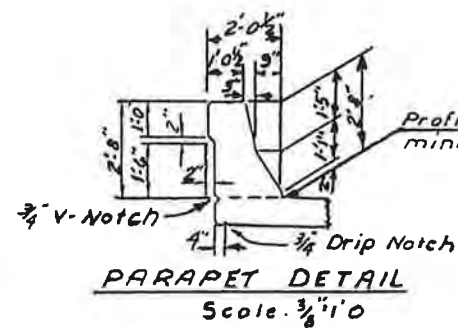
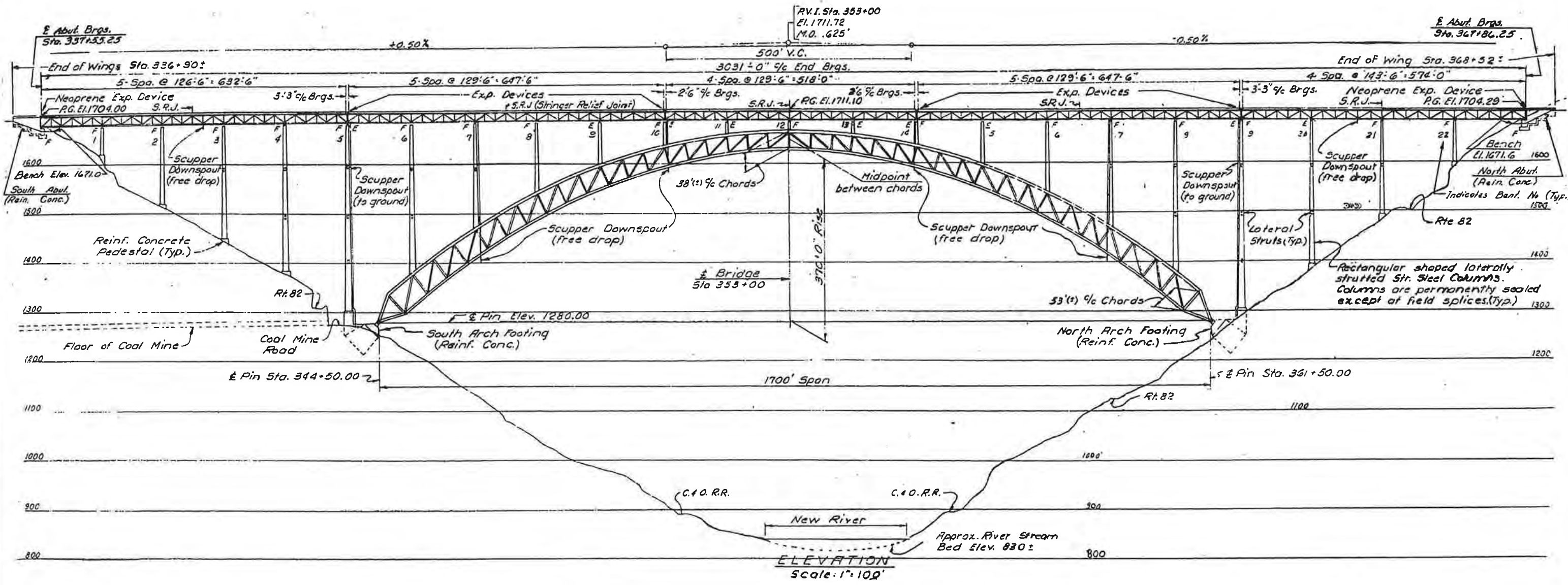


TYPICAL SECTION THROUGH SUPERSTRUCTURE

TYPICAL SECTION SCALE: 1" = 4'

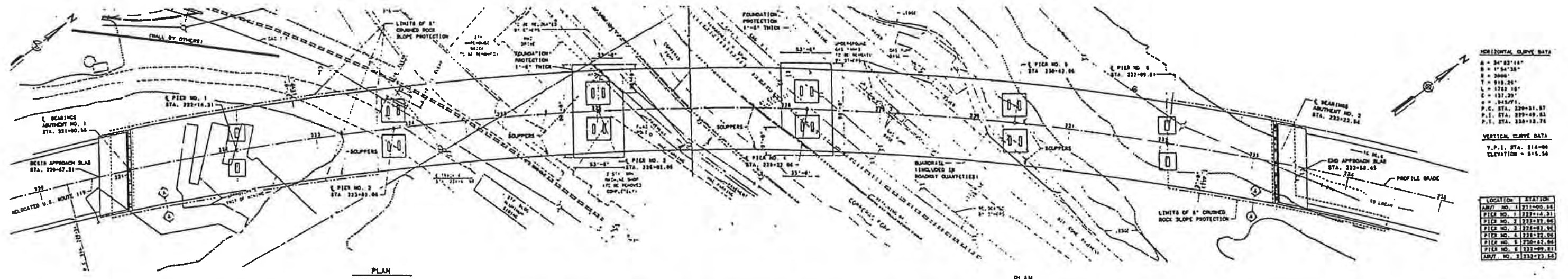
SECTION NO. 12

WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
APPALACHIAN HIGHWAY SYSTEM
SITUATION PLAN
US 48 OVER CHEAT LAKE



SECTION NO. 13

WEST VIRGINIA
 DEPARTMENT OF TRANSPORTATION
 APPALACHIAN HIGHWAY SYSTEM
 1700 FT ARCH BRIDGE
 CARRYING U.S. RTE. 19 OVER
 THE NEW RIVER GORGE



HORIZONTAL CURVE DATA

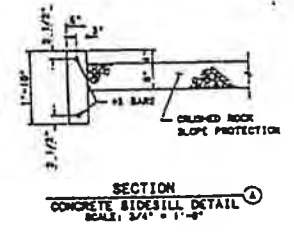
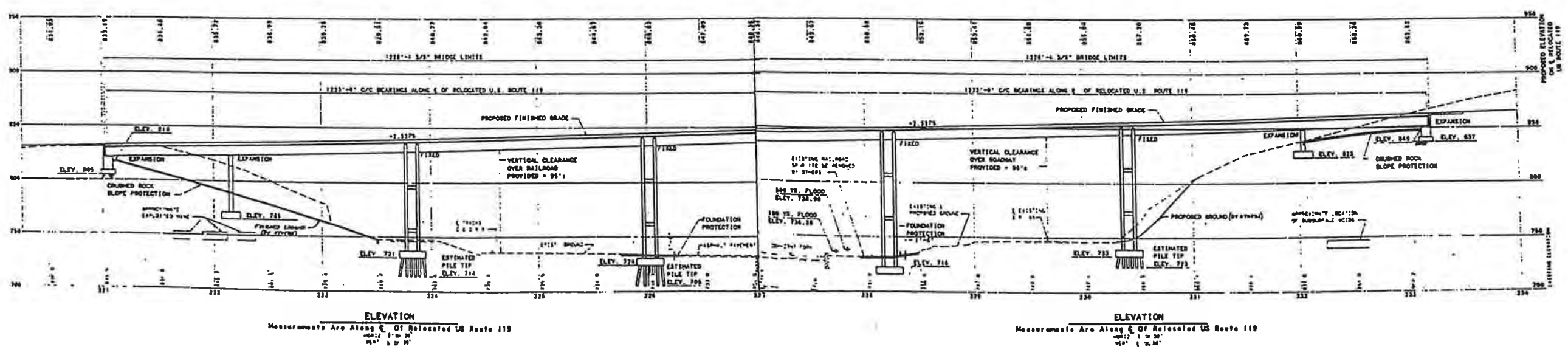
A = 34°02'14"
 B = 1°54'38"
 R = 2000'
 T = 818.26'
 L = 1763.18'
 E = 137.39'
 P.C. STA. 229+31.87
 P.T. STA. 229+49.83
 P.I. STA. 228+13.78

VERTICAL CURVE DATA

V.P.1. STA. 214+00
 ELEVATION = 519.50

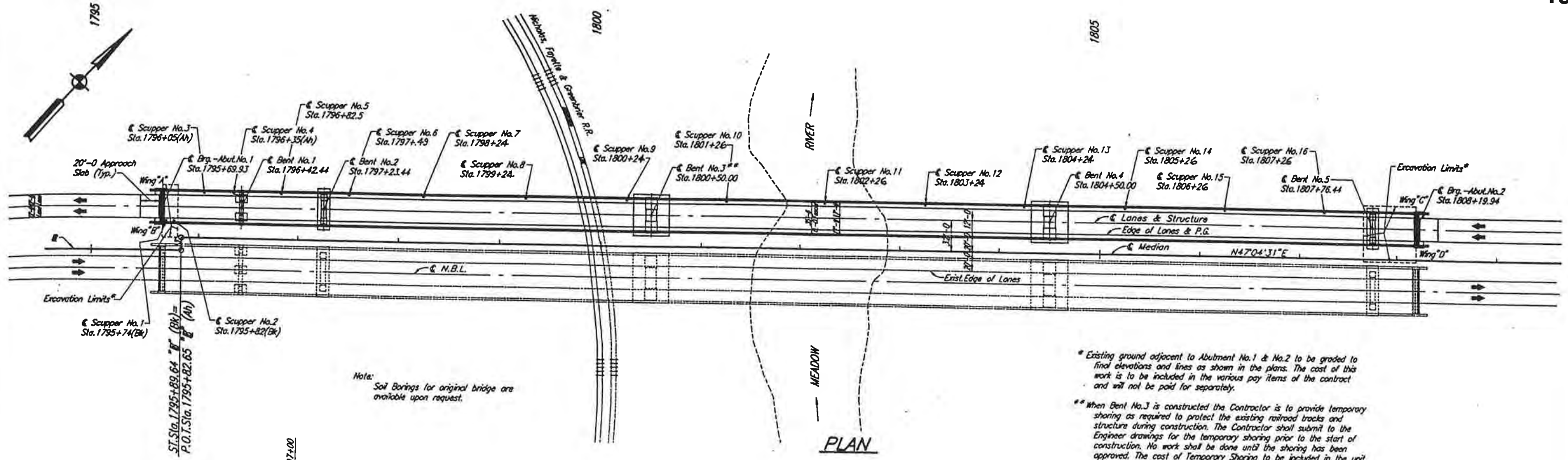
LOCATION SECTION

PIER NO. 1	223+14.31
PIER NO. 2	223+31.04
PIER NO. 3	223+47.77
PIER NO. 4	223+64.50
PIER NO. 5	223+81.23
PIER NO. 6	223+97.96
PIER NO. 7	224+14.69



SECTION NO. 14

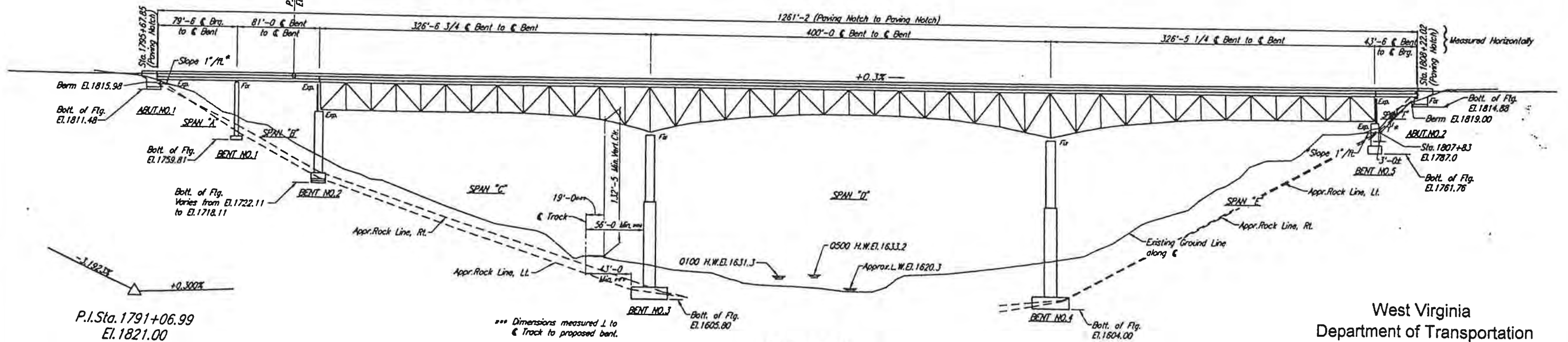
West Virginia
 Department of Transportation
 Appalachian Highway System
 Holden Bridge (# 2809) on US 119
 General Plan and Elevation



Note:
Soil Borings for original bridge are available upon request.

* Existing ground adjacent to Abutment No. 1 & No. 2 to be graded to final elevations and lines as shown in the plans. The cost of this work is to be included in the various pay items of the contract and will not be paid for separately.

** When Bent No. 3 is constructed the Contractor is to provide temporary shoring as required to protect the existing railroad tracks and structure during construction. The Contractor shall submit to the Engineer drawings for the temporary shoring prior to the start of construction. No work shall be done until the shoring has been approved. The cost of Temporary Shoring to be included in the unit price bid for Item 212-1, Structure Excavation.

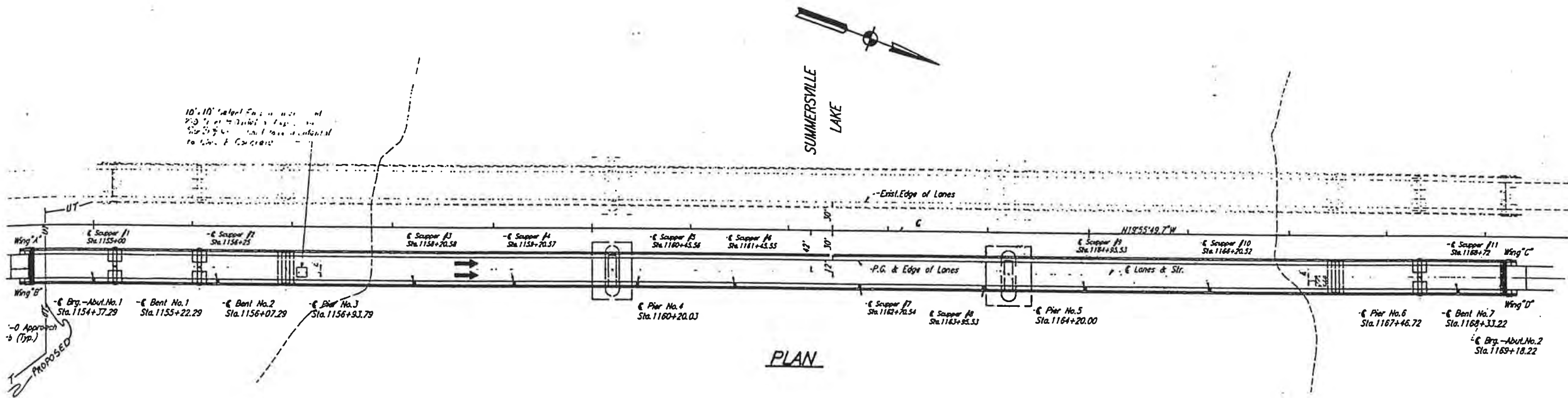


P.I. Sta. 1791+06.99
El. 1821.00
LVC=1200'
PROFILE GRADE DATA

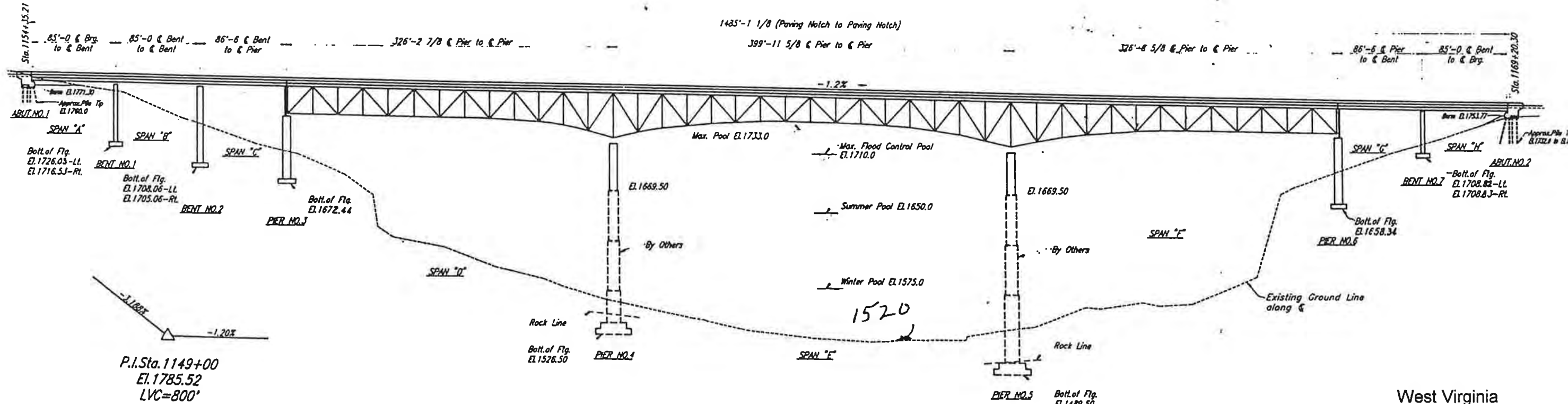
*** Dimensions measured L to C Track to proposed bent.

ELEVATION

West Virginia
Department of Transportation
Appalachian Highway System
General Plan Carrying US 19
Over Meadow River



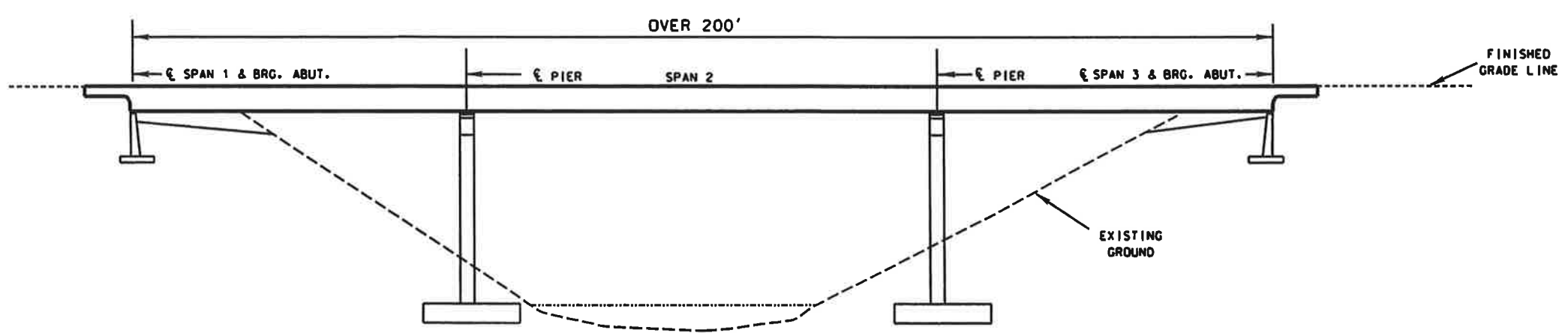
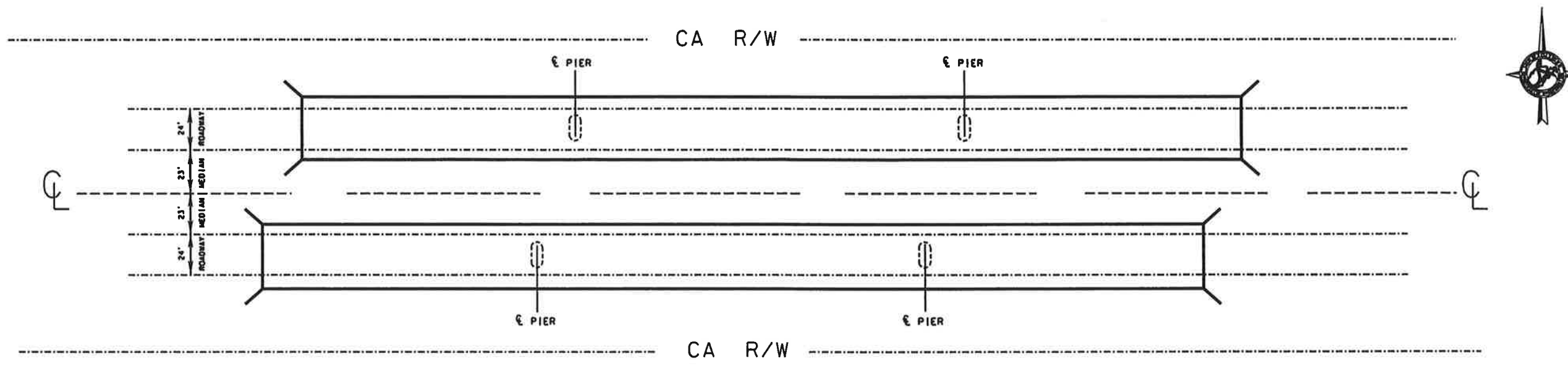
PLAN



ELEVATION

PROFILE GRADE DATA

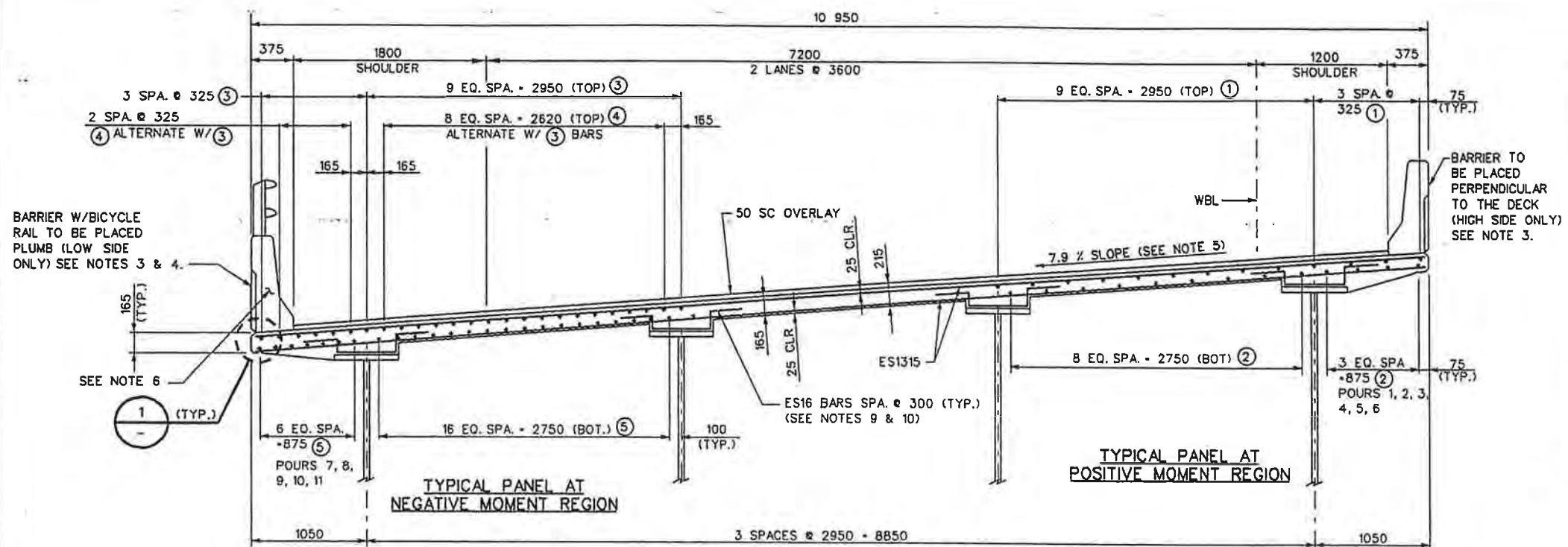
West Virginia
 Department of Transportation
 Appalachian Highway System
 General Plan Carrying US 19
 Over Summersville Lake



SECTION NO. 17

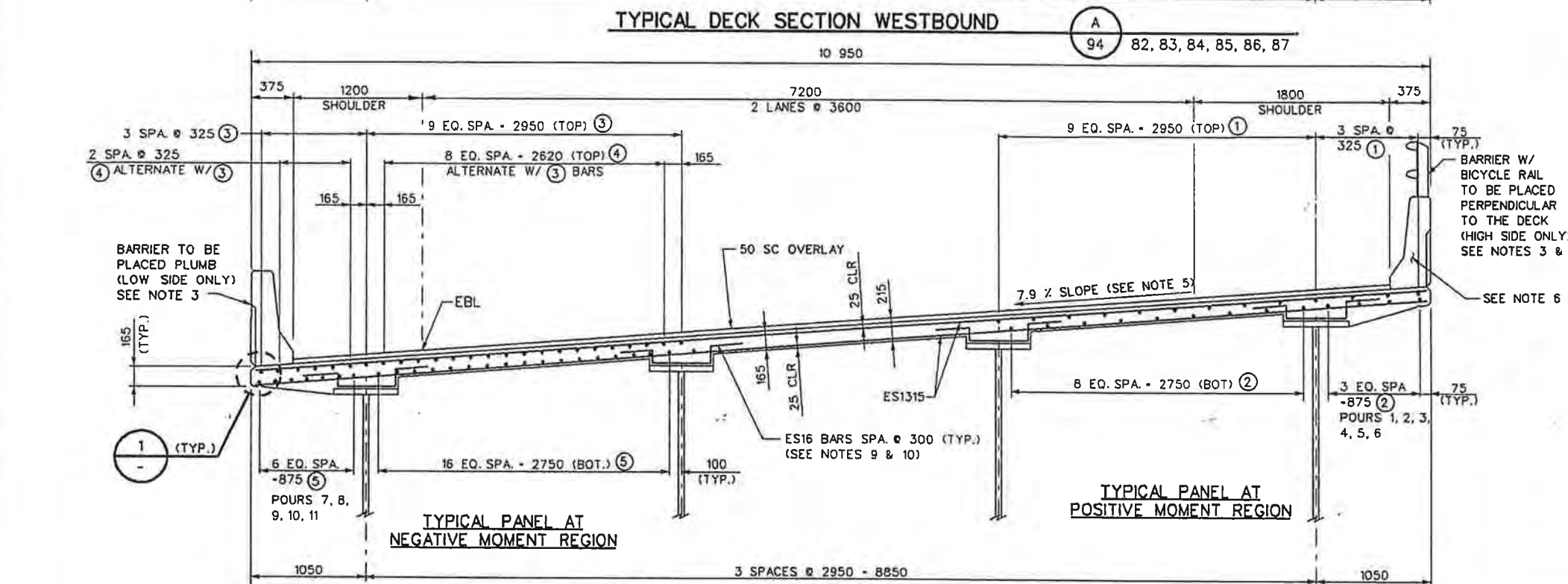
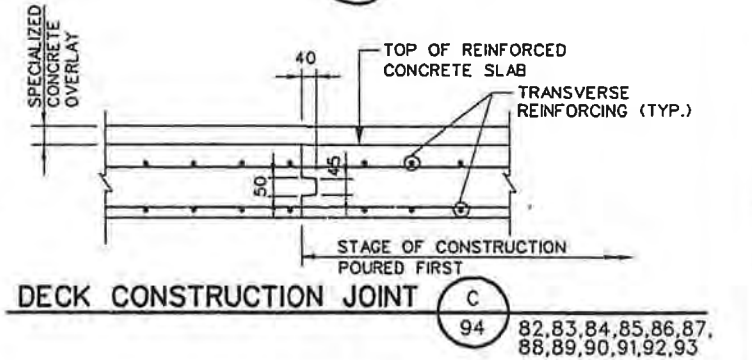
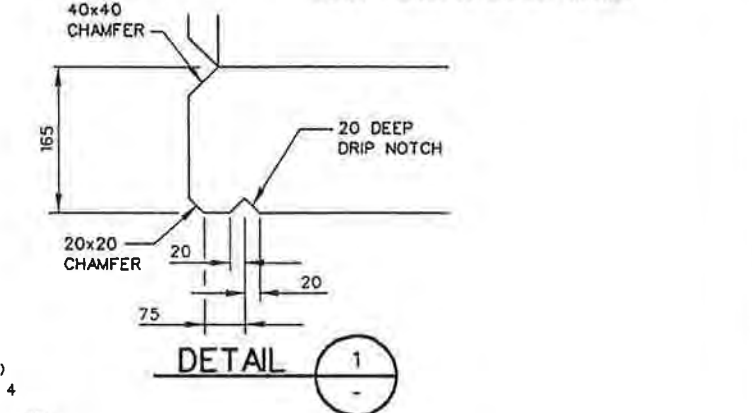
West Virginia
 Department of Transportation
 Appalachian Highway System
 General Plan Carrying US 33
 Structures Over 200'

Not to scale



WESTBOUND SECTION LEGEND		EASTBOUND SECTION LEGEND	
①	ES1301 & ES1302 (SPAN 1) ES1301 & ES1304 (SPAN 2) ES1301 & ES1306 (SPAN 3) ES1301 & ES1308 (SPAN 4) ES1301 & ES1310 (SPAN 5) ES1301 & ES1312 (SPAN 6)	①	ES1301 & ES1322 (SPAN 1) ES1301 & ES1324 (SPAN 2) ES1301 & ES1326 (SPAN 3) ES1301 & ES1328 (SPAN 4) ES1301 & ES1330 (SPAN 5) ES1301 & ES1332 (SPAN 6)
②	ES1601 & ES1602 (SPAN 1) ES1601 & ES1604 (SPAN 2) ES1601 & ES1606 (SPAN 3) ES1601 & ES1608 (SPAN 4) ES1601 & ES1610 (SPAN 5) ES1601 & ES1612 (SPAN 6)	②	ES1601 & ES1622 (SPAN 1) ES1601 & ES1624 (SPAN 2) ES1601 & ES1626 (SPAN 3) ES1601 & ES1628 (SPAN 4) ES1601 & ES1630 (SPAN 5) ES1601 & ES1632 (SPAN 6)
③	ES1601 & ES1603 (PIER 1) ES1601 & ES1605 (PIER 2) ES1601 & ES1607 (PIER 3) ES1601 & ES1609 (PIER 4) ES1601 & ES1611 (PIER 5)	③	ES1601 & ES1623 (PIER 1) ES1601 & ES1625 (PIER 2) ES1601 & ES1627 (PIER 3) ES1601 & ES1629 (PIER 4) ES1601 & ES1631 (PIER 5)
④	ES1901 & ES1903 (PIER 1) ES1901 & ES1905 (PIER 2) ES1901 & ES1907 (PIER 3) ES1901 & ES1909 (PIER 4) ES1901 & ES1911 (PIER 5)	④	ES1901 & ES1923 (PIER 1) ES1901 & ES1925 (PIER 2) ES1901 & ES1927 (PIER 3) ES1901 & ES1929 (PIER 4) ES1901 & ES1931 (PIER 5)
⑤	ES1301 & ES1303 (PIER 1) ES1301 & ES1305 (PIER 2) ES1301 & ES1307 (PIER 3) ES1301 & ES1309 (PIER 4) ES1301 & ES1311 (PIER 5)	⑤	ES1301 & ES1323 (PIER 1) ES1301 & ES1325 (PIER 2) ES1301 & ES1327 (PIER 3) ES1301 & ES1329 (PIER 4) ES1301 & ES1331 (PIER 5)

BAR LOCATION: (SPAN) - POSITIVE MOMENT REGION
(PIER) - NEGATIVE MOMENT REGION



NOTES:

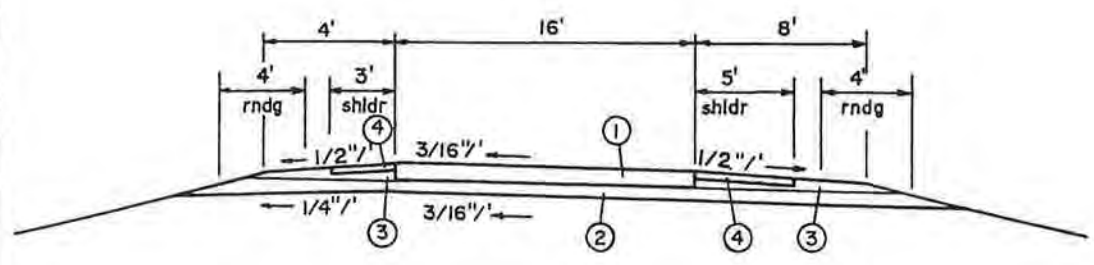
- FOR GENERAL NOTES, SEE DRAWING NOS. 6, 7 & 7A.
- WORK THIS DRAWING WITH DRAWING NOS. 82 THRU 93.
- FOR BARRIER DETAILS, SEE DRAWING NOS. 98 & 99.
- FOR DETAILS OF BICYCLE BARRIER RAIL AND BARRIER, SEE DRAWING NO. 102.
- THE SUPERELEVATION OF THE DECK VARIES AT THE BEGINNING OF THE BRIDGE NEAR ABUTMENT 1. SEE DRAWING NO. 117 FOR THE SUPERELEVATION TABLES AND DIAGRAMS.
- CONDUITS AND JUNCTION BOXES IN NORTH BARRIER (WB) AND SOUTH BARRIER (EB). SEE DWG. NO. 99A.
- SEE GENERAL NOTES DWG. NO. 6 FOR DECK POURING SEQUENCE REQUIREMENTS.
- FOR STAY-IN-PLACE FORM DETAILS, SEE DWG. NO. 87.
- BEND HORIZONTAL LEGS ON ES1616, ES1633 AND ES1634 BARS AS NECESSARY TO MATCH DECK SUPERELEVATION.
- PLACE BAR ES1616 # 300 IN AREAS OF TOP FLANGE WIDTH EQUAL TO 450 AND 500. PLACE BAR ES1633 # 300 IN AREAS OF TOP FLANGE WIDTH EQUAL TO 550 AND 600. PLACE BAR ES1634 # 300 IN AREAS OF TOP FLANGE WIDTH EQUAL TO 900.

SECTION 17-A

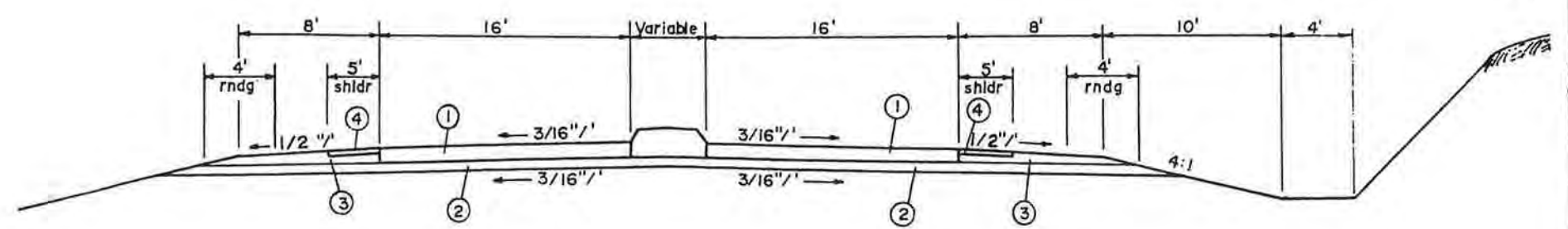
NO.	REVISION	DATE:	BY:

	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
	WV 55 OVER LOST RIVER LOST RIVER #2 STEEL ALTERNATE	
	DESIGNED HRB	DATE 8/01
	DRAWN JJW	8/01
CHECKED LAA	8/01	DWG. NO. 94 of 136 BRIDGE NO. 4273
CHECKED BJM	8/01	

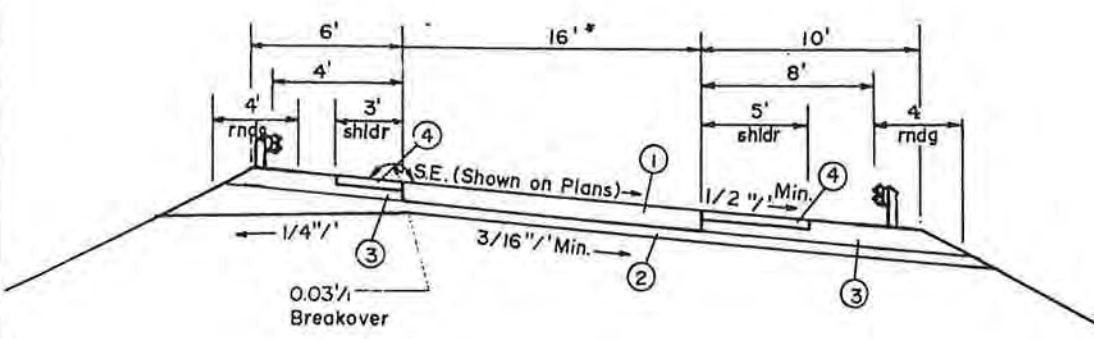
g:\projects\wvcorr4\struct\4273\steel\ds4p3ds13.dgn 8/3/01 08:25:01



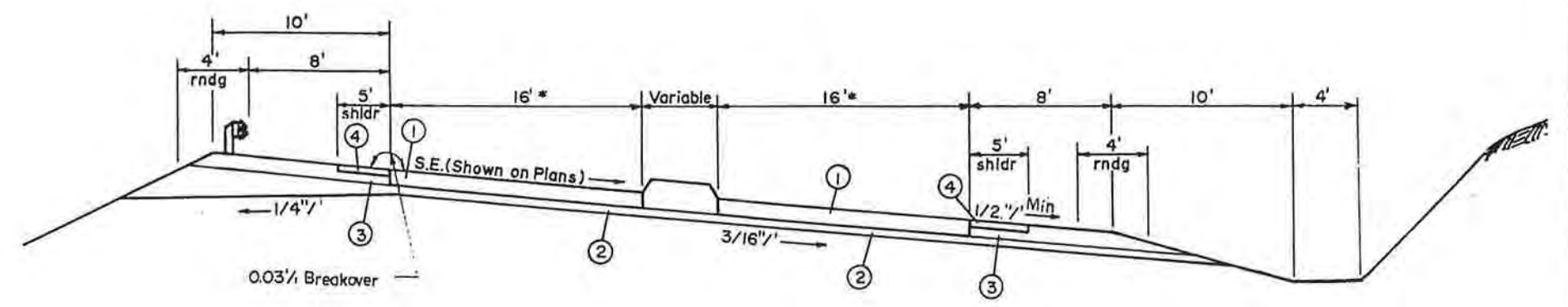
ONE-WAY RAMP ON TANGENT



TWO-WAY RAMP ON TANGENT



ONE-WAY RAMP ON CURVES



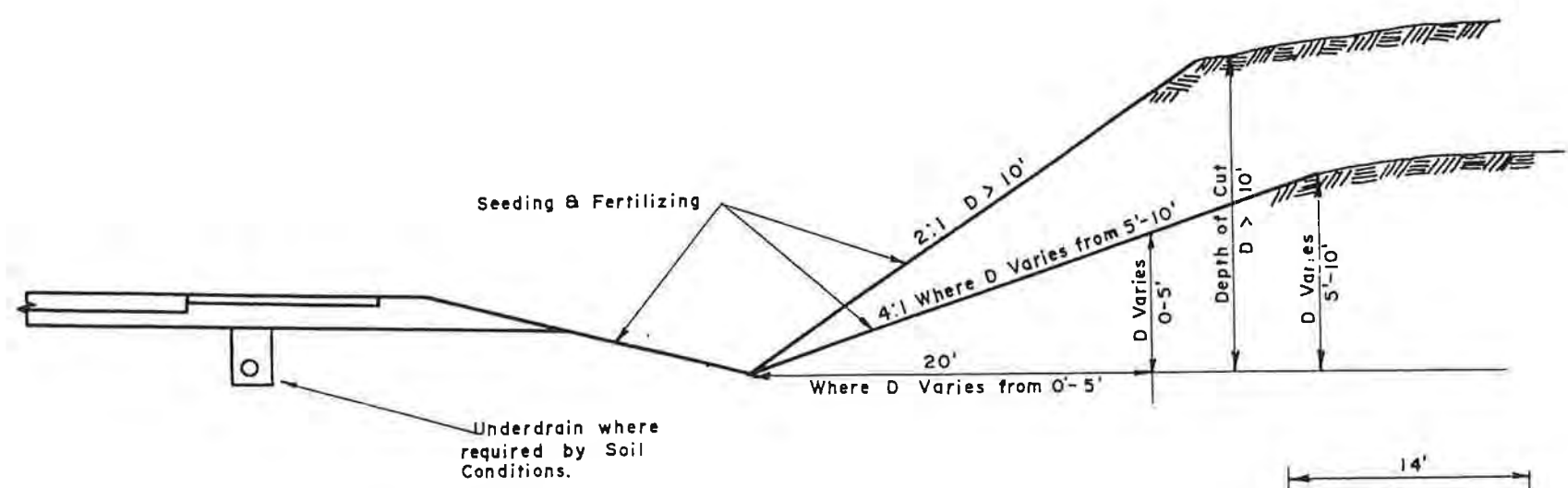
TWO-WAY RAMP ON CURVES

* A.A.S.H.O. Policy For Rural Highways Table VII-7 Case II

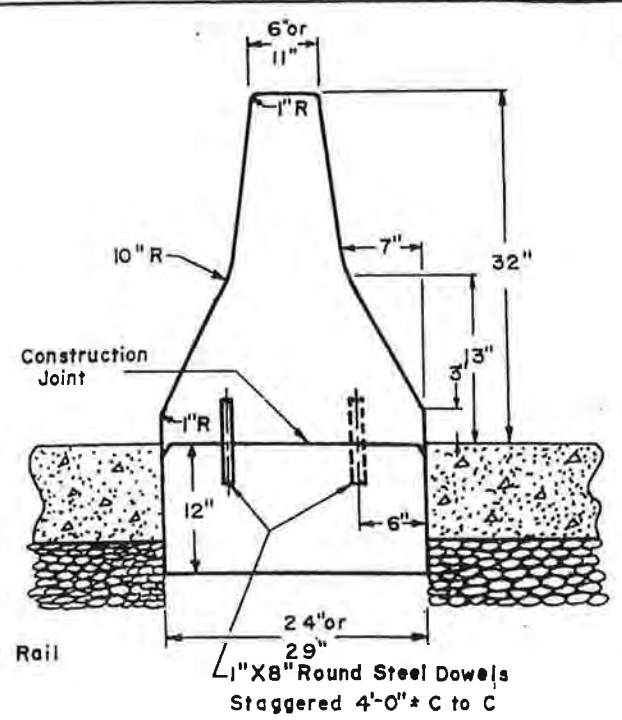
LEGEND

- ① 9" Portland Cement Concrete
- ② 5" Class 2 Aggregate Base Course
- ③ Shoulder Base
- ④ 3" Penetration Macadam Shoulder

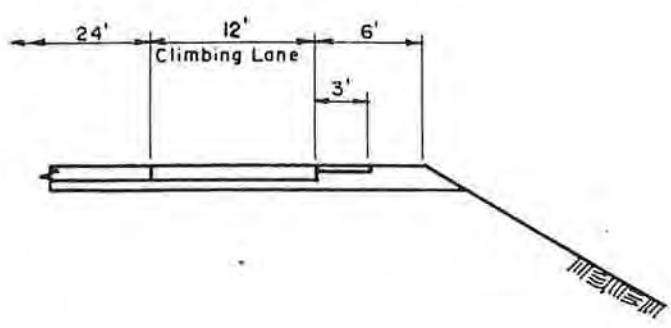
NOTE: Typical section has both "Full Control" and "Partial Control" of access



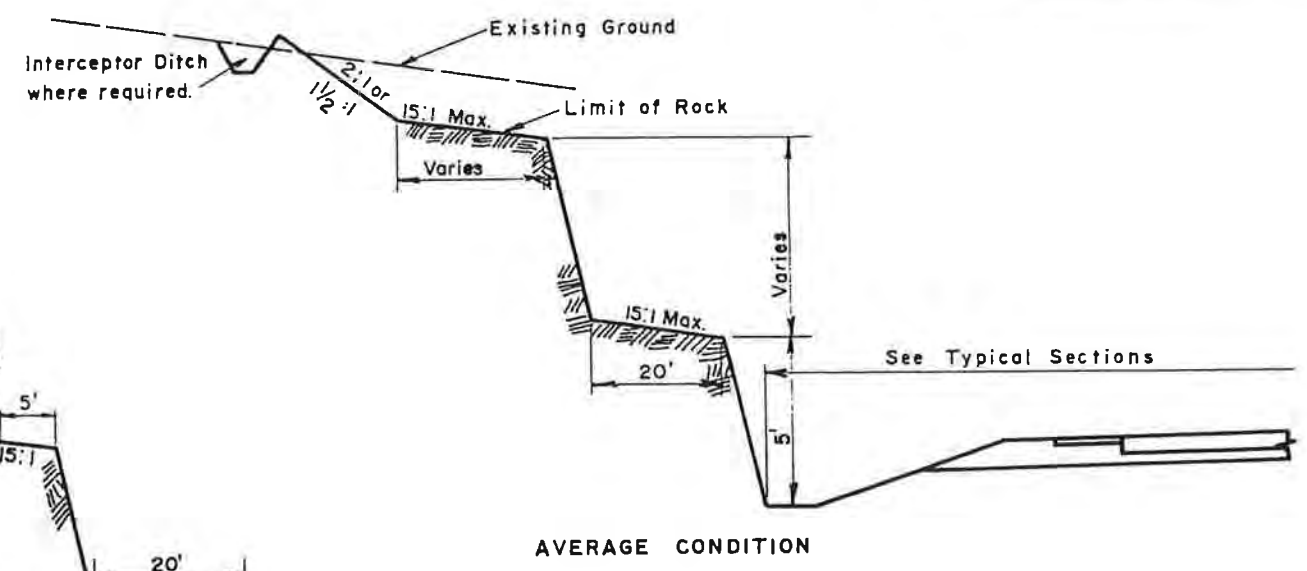
EARTH CUT SECTION



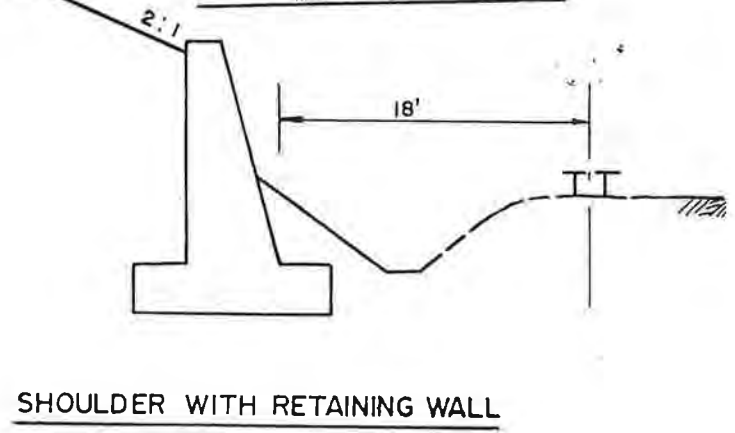
CONCRETE BARRIER MEDIAN



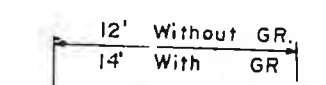
CLIMBING LANE SECTION



ROCK CUT SECTIONS



SHOULDER WITH RETAINING WALL



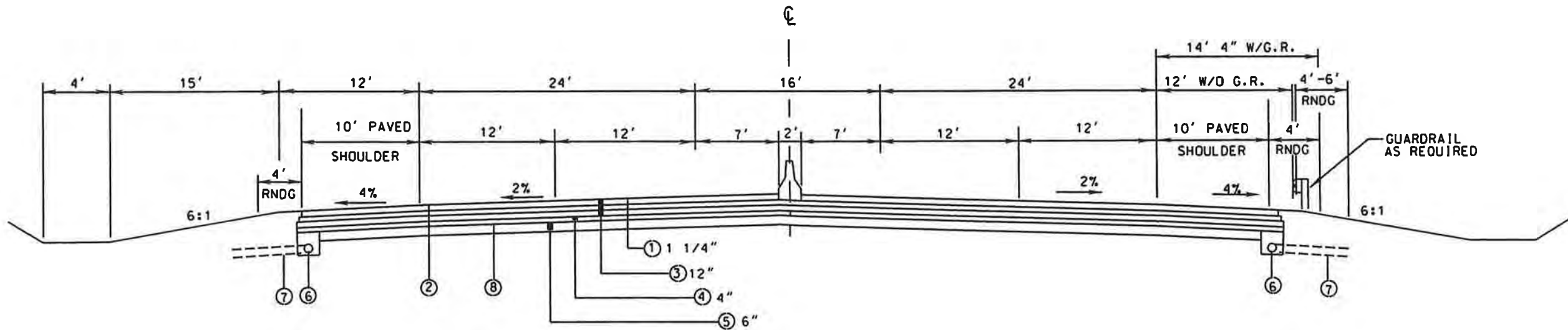
EMBAKMENT SLOPE GUIDE

HL of Emb.	Slope
0' to 5'	6:1
5' to 10'	4:1
> 10'	2:1

LOCAL CONDITION

NOTE: Typical section has both "Full Control" and "Partial Control" of access

WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
APPALACHIAN HIGHWAY
SYSTEM
TYPICAL ROAD DETAILS



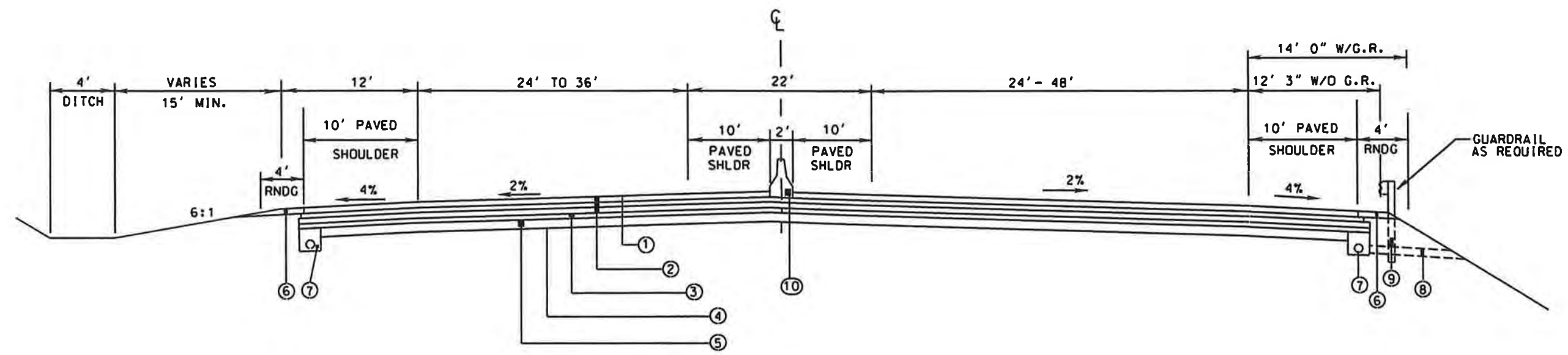
US 50
NORMAL SECTION

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>
①	402001-011 SUPERPAVE HMA SKID RESISTANT PAVEMENT, TYPE 1 (ESAL = 20,200,000) (PG 70-22)	TN
②	40107-011 SUPERPAVE SCRATCH COURSE, TYPE 1 (CALCULATED APPLICATION RATE OF 65#/SY)	TN
③	40101-011 SUPERPAVE HMA BASE COURSE, TYPE 1(3-4" COURSES) (ESAL = 20,200,000) (PG 70-22 FOR TOP 4" COURSE & PG 64-22 FOR OTHER 2 COURSES)	TN
④	311006-001 OPEN GRADED FREE DRAINING BASE COURSE	CY
⑤	207002-000 SUBGRADE	CY
⑥	606029-001 FREE DRAINING BASE TRENCH	LF
⑦	606030-001 OUTLET PIPE	LF
⑧	207034-000 FABRIC FOR SEPARATION	SY

SECTION NO. 20
16' MEDIAN

NOTE: Typical section has both "Full Control" and "Partial Control" of access

Not to scale



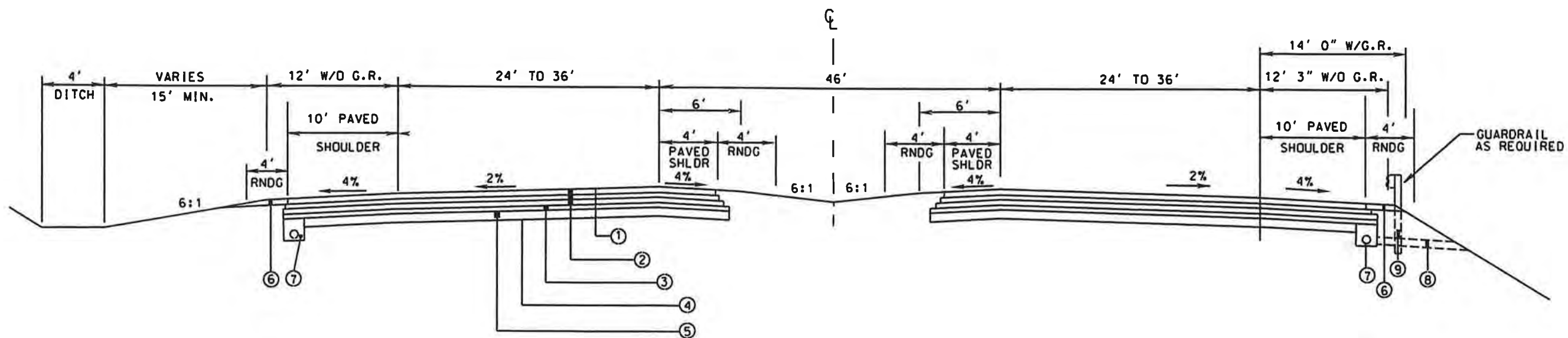
US 50
NORMAL SECTION

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>
①	402001-011 (012) SUPERPAVE HMA SKID RESISTANT PAVEMENT, STONE OR GRAVEL (SLAG), TYPE 1	TN
②	40101-011 (012) SUPERPAVE HMA BASE COURSE, STONE OR GRAVEL, (SLAG),TYPE 1)	TN
③	311006-001 OPEN GRADED FREE DRAINING BASE COURSE	CY
④	207034-000 FABRIC FOR SEPARATION	SF
⑤	207002-000 SUBGRADE	CY
⑥	307001-000 AGGREGATE BASE COURSE, CLASS 1	CY
⑦	606029-001 FREE DRAINING BASE TRENCH	CY
⑧	606030-001 OUTLET PIPE	LF
⑨	607001-001 TYPE I GUARDRAIL, CLASS 1	LF
⑩	610006/005 MEDIAN, TYPE V, N-J SHAPE	

SECTION NO. 20 A
22' MEDIAN

NOTE: Typical section has both "Full Control" and "Partial Control" of access

Not to scale



US 50
NORMAL SECTION

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>
①	402001-011 (012) SUPERPAVE HMA SKID RESISTANT PAVEMENT. STONE OR GRAVEL (SLAG). TYPE 1	TN
②	40101-011 (012) SUPERPAVE HMA BASE COURSE. STONE OR GRAVEL. (SLAG).TYPE 1)	TN
③	311006-001 OPEN GRADED FREE DRAINING BASE COURSE	CY
④	207034-000 FABRIC FOR SEPARATION	SF
⑤	207002-000 SUBGRADE	CY
⑥	307001-000 AGGREGATE BASE COURSE. CLASS 1	CY
⑦	606029-001 FREE DRAINING BASE TRENCH	CY
⑧	606030-001 OUTLET PIPE	LF
⑨	607001-001 TYPE 1 GUARDRAIL. CLASS 1	LF

SECTION NO. 20 B
46' MEDIAN

NOTE: Typical section has both "Full Control" and "Partial Control" of access

Not to scale

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: D

Section ID	D24.0.0	D25.0.0	D25.1.0	D26.0.0
LRS Milepoint: Beginning/Ending	14.030/15.510	15.510/16.240	16.240/17.790	17.790/18.250
Status	NP	Completed	Completed	NP
1. Finance Code	20	20	20	20
2. Section Length(Miles)	1.5	0.7	1.6	0.5
3. Class/Urban Code	U/0540	U/0540	U/0540	U/0540
4. Location:				
---- a. FIPS State/County/Congressional	54/033/01	54/033/01	54/033/01	54/033/01
---- b. HPMS Route/Subroute	0000000050/00	0000000050/00	0000000050/00	0000000050/00
---- c. HPMS Signed Route/Strip Map #	2000000050/D6	2000000050/D6	2000000050/D6	2000000050/D6
5. Estimate Section/NHS Designation	2/NHS	1/NHS	1/NHS	2/NHS
6. Design Speed(mph)	60	60	60	60
7. Traffic:				
---- a. ADT-Base Year (2010)	33,000	51,400	51,400	55,400
---- b. ADT-Year 2020	41,600	73,000	73,000	78,700
---- c. Design Year	1,993	1,995	1,992	1,992
---- d. ADT-Design Year	13,300	49,500	35,000	35,000
---- e. DHV-Design Year	1,197	4,455	3,150	3,150
---- f. % Truck Design Year(DHV)	9	9	9	9
---- g. % Truck Design Year(ADT)	15	11	11	11
---- h. Directional Distribution Factor	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4
10. Typical X-Section of Reference/Access Control	4/Full	1/Full	1/Partial	4/Full
11. Right-of-Way Width(ft), prevailing	150	300	300	400
12. Median Width(ft), prevailing	6	40	40	18
13. Status of Development(Figure 4)	np	1a	1a	np

Estimated Cost(\$1,000) per Work Classification

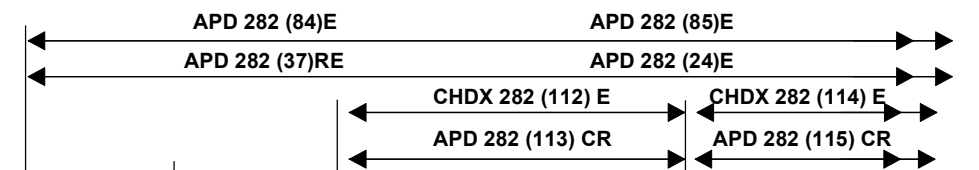
14. Preliminary Engineering:				
---- a. Location	0	0	0	0
---- b. Design	0	0	0	0
15. Right-of-Way:				
---- a. Acquisition	0	0	0	0
---- b. Relocation	0	0	0	0
16. Utility Adjustments	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0
19. Railroad Grade Separations	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0
21. Interchanges	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0
23. Traffic Control	0	0	0	0
24. Environmental Mitigation	0	0	0	0
25. Roadside Improvements:				
---- a. Landscape Planting	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0
26. All Other Items	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0
28. Construction Engineering(8.00000000% of line 27)	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	0	0

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: D

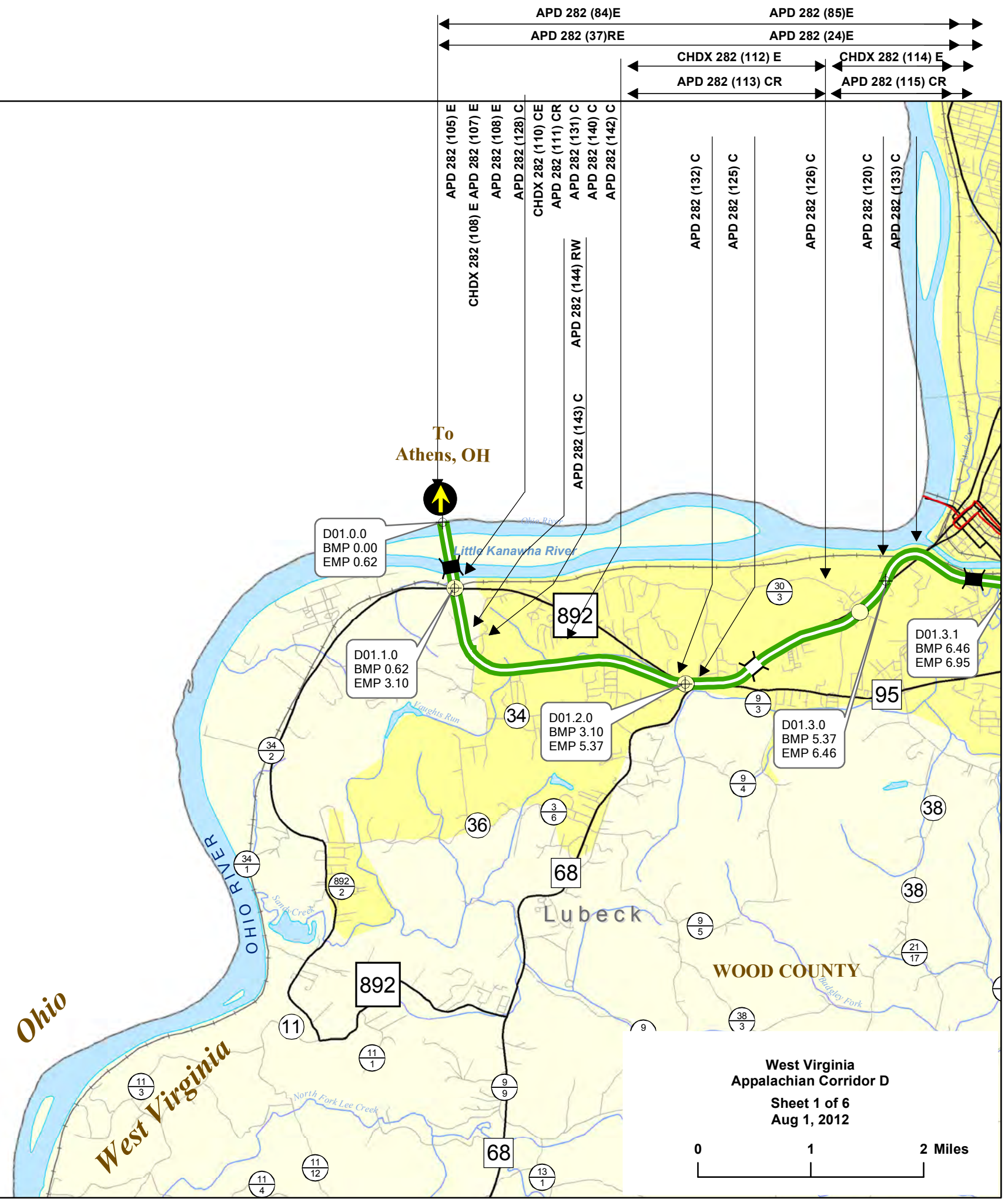
Section ID LRS Milepoint	Corridor Total	Rural Subtotal	Urban Subtotal
1. Finance Code 2. Section Length(Miles) 3. Class/Urban Code 4. Location: ---- a. FIPS State/County/Congressional ---- b. HPMS Route/Subroute ---- c. HPMS Signed Route/Strip Map # 5. Estimate Section/NHS Designation 6. Design Speed(mph) 7. Traffic: ---- a. ADT-Base Year (2010) ---- b. ADT-Year 2020 ---- c. Design Year ---- d. ADT-Design Year ---- e. DHV-Design Year ---- f. % Truck Design Year(DHV) ---- g. % Truck Design Year(ADT) ---- h. Directional Distribution Factor 8. Number of Lanes to be Constructed this Estimate 9. Ultimate Number of Through Traffic Lanes 10. Typical X-Section of Reference/Access Control 11. Right-of-Way Width(ft), prevailing 12. Median Width(ft), prevailing 13. Status of Development(Figure 4)	82.30	67.40	14.90
Estimated Cost(\$1,000) per Work Classification			
14. Preliminary Engineering: ---- a. Location ---- b. Design 15. Right-of-Way: ---- a. Acquisition ---- b. Relocation 16. Utility Adjustments			
17. Erosion Control/Clear/Grade/Drain/Minor Structure 18. Subbase, Base, Surfacing, Shoulders 19. Railroad Grade Separations 20. Highway Grade Separations without Ramps 21. Interchanges 22. Other Bridges, Tunnels, and Walls 23. Traffic Control 24. Environmental Mitigation 25. Roadside Improvements: ---- a. Landscape Planting ---- b. Rest Area, Overlooks 26. All Other Items			
27. Subtotal(lines 17 thru 26) 28. Construction Engineering(8.00000000% of line 27) 29. Total Cost of Construction(lines 27 & 28) 30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			



LEGEND FOR APPALACHIAN ROUTES

ADHS ROUTE STATUS		Other Bridge
Complete (1a, 1b)	Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)	Combination Highway-Railroad Grade Separation
Final Construction (3a2)	Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)	Tunnel
Location Study (5a1, 5a2, 5a3, 5a4)	Nonparticipating (NP)	Interchange
Interstates	Interchanges	Railroad Grade Separation
Other NHS Route	Other Major Road	Highway Grade Separation - No Connection
Toll Bridge, Highway	Urban Areas	

Section ID
Beginning Milepoint
Ending Milepoint



D01.0.0
BMP 0.00
EMP 0.62

D01.1.0
BMP 0.62
EMP 3.10

D01.2.0
BMP 3.10
EMP 5.37

D01.3.0
BMP 5.37
EMP 6.46

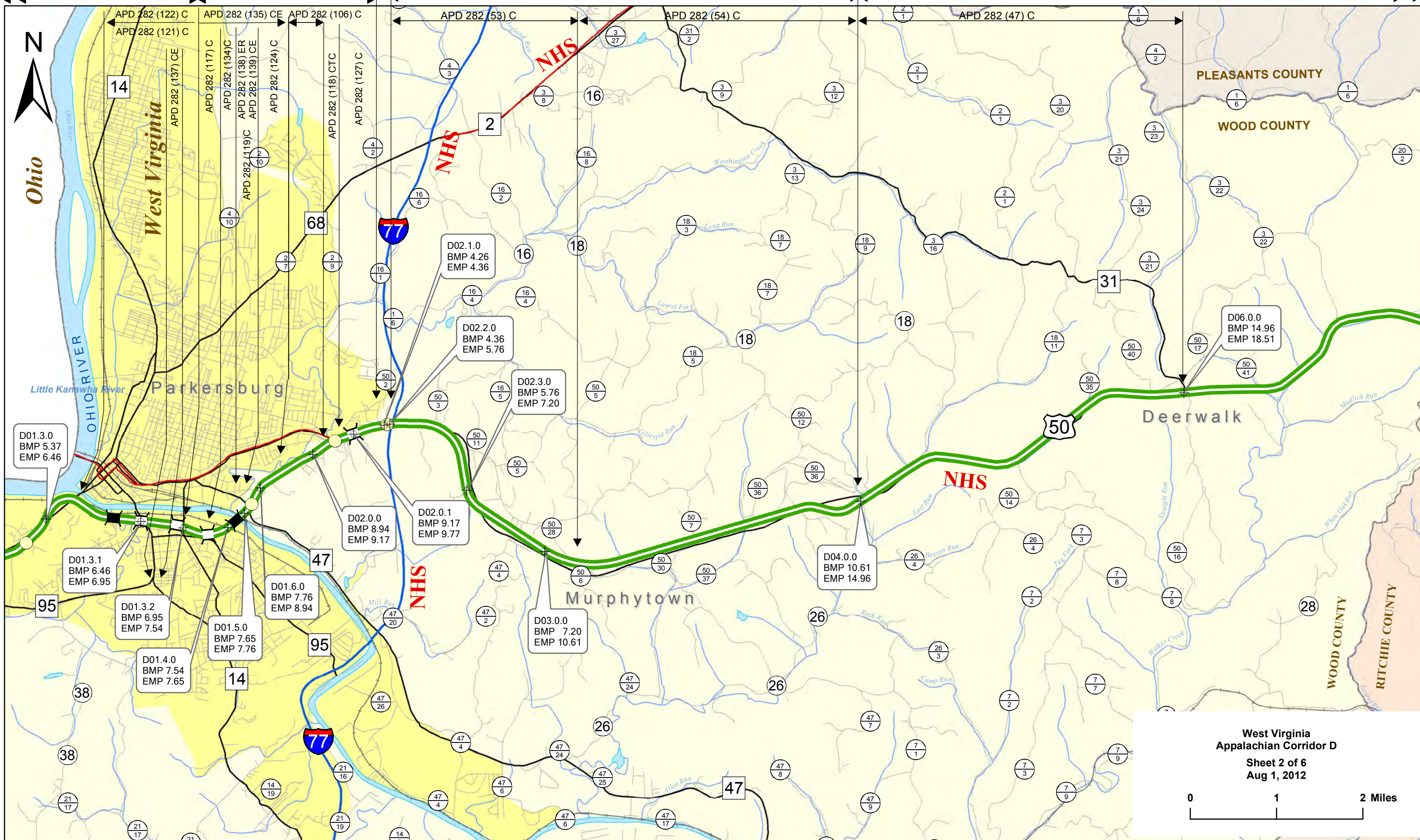
D01.3.1
BMP 6.46
EMP 6.95

To
Athens, OH

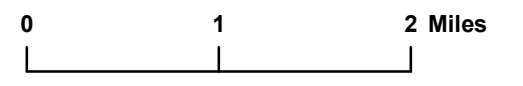
**West Virginia
Appalachian Corridor D**
Sheet 1 of 6
Aug 1, 2012



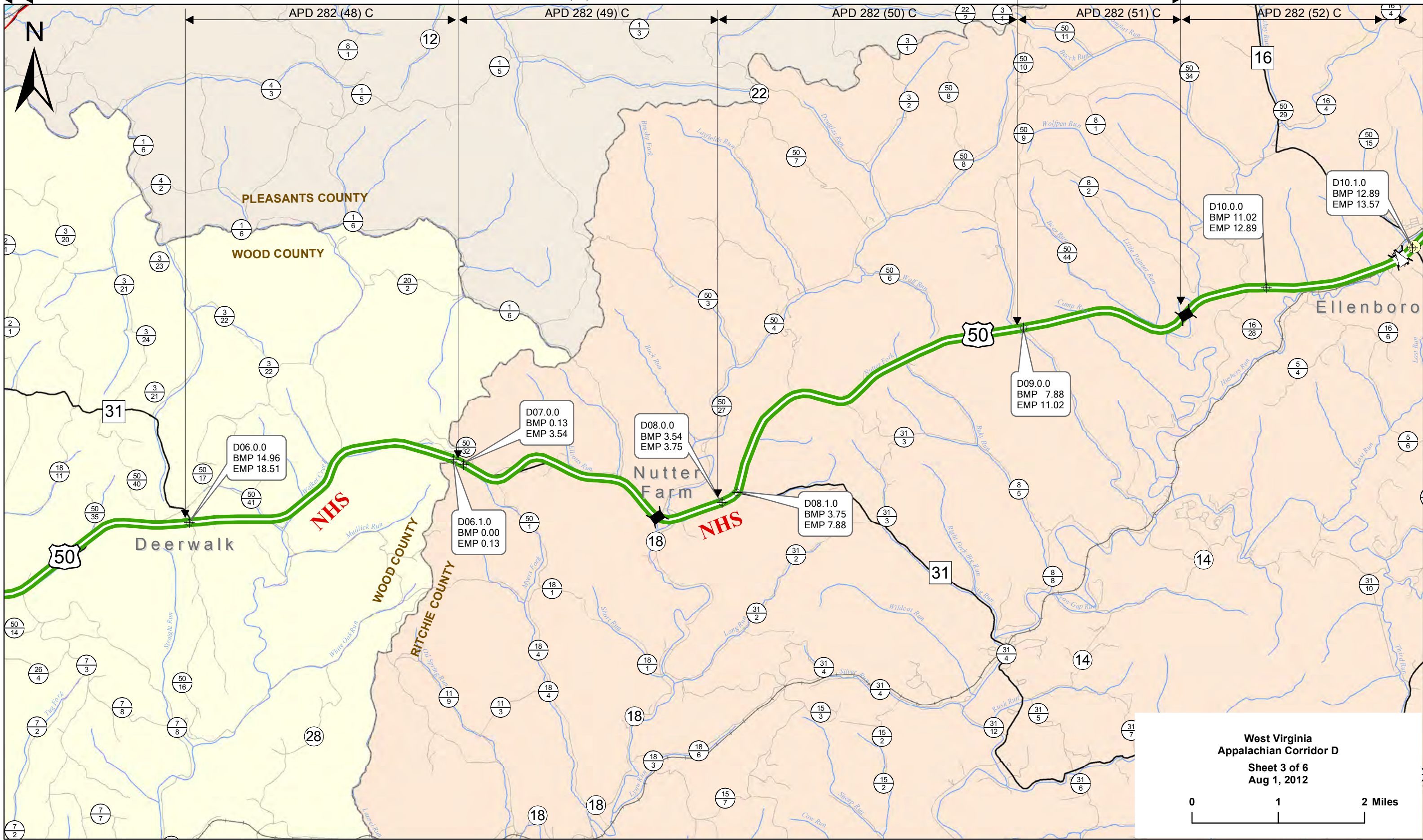
APD 282 (84) E APD 282 (85) E APD 282 (81) E APD 282 (82) C APD 282 (91) C
 APD 282 (37) RE APD 282 (24) E APD 282 (75) C APD 282 (68) C APD 282 (64) E
 CHAP 282(101) CR APD 282 (25) E APD 282 (25) E APD 282 (26) E
 CHDX 282 (114)E APD 282 (115) CR CHD 282 (94) E CHDX 282 (116) R APD 282 (38) RE APD 282 (39) RE



**West Virginia
 Appalachian Corridor D**
Sheet 2 of 6
Aug 1, 2012



APD 282 (26) E APD 282 (75) C APD 282 (68) C APD 282 (27) E APD 282 (28) E
 APD 282 (39) RE APD 282 (81) E APD 282 (82) C APD 282 (40) RE APD 282 (41) RE



D06.0.0
BMP 14.96
EMP 18.51

D07.0.0
BMP 0.13
EMP 3.54

D08.0.0
BMP 3.54
EMP 3.75

D08.1.0
BMP 3.75
EMP 7.88

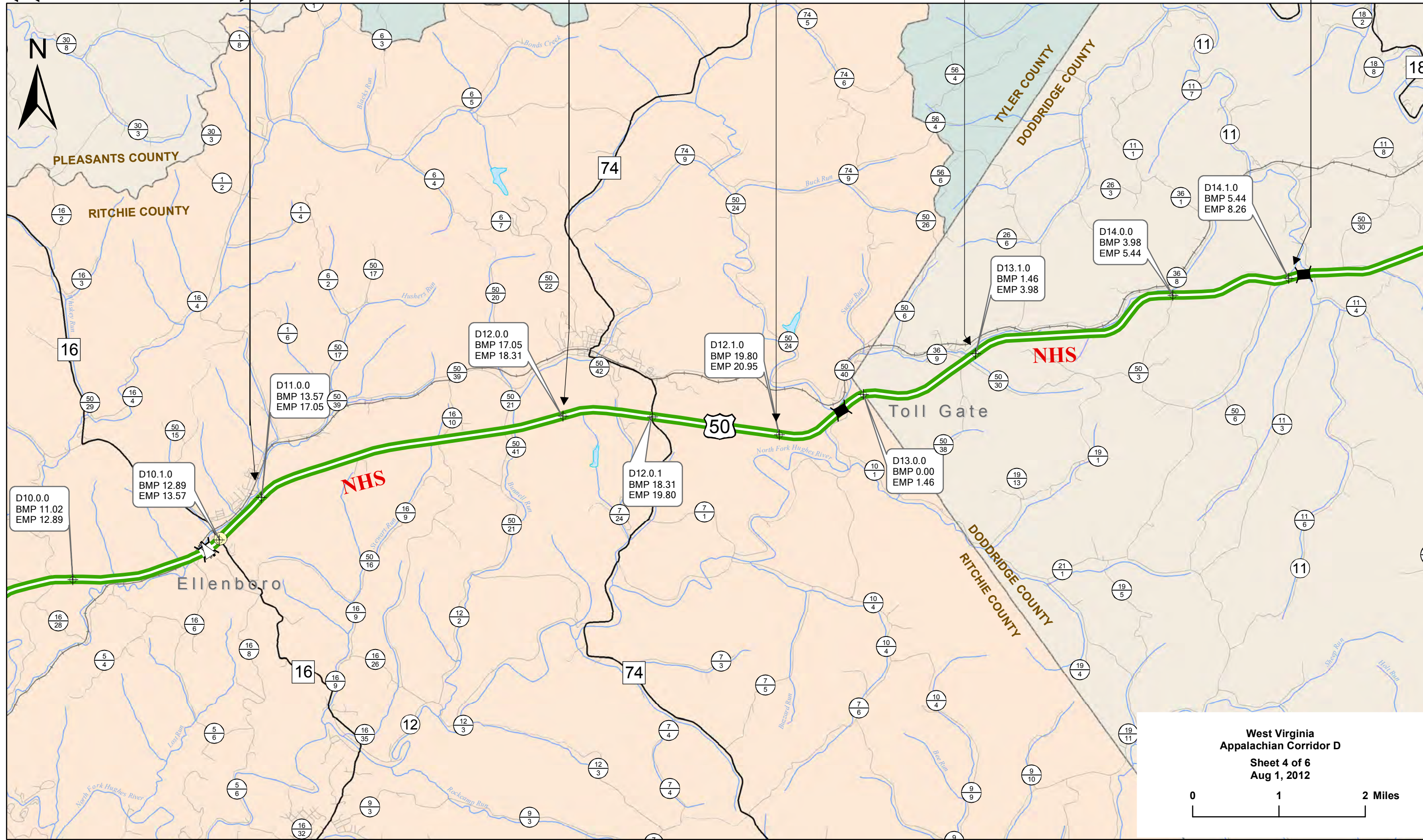
D09.0.0
BMP 7.88
EMP 11.02

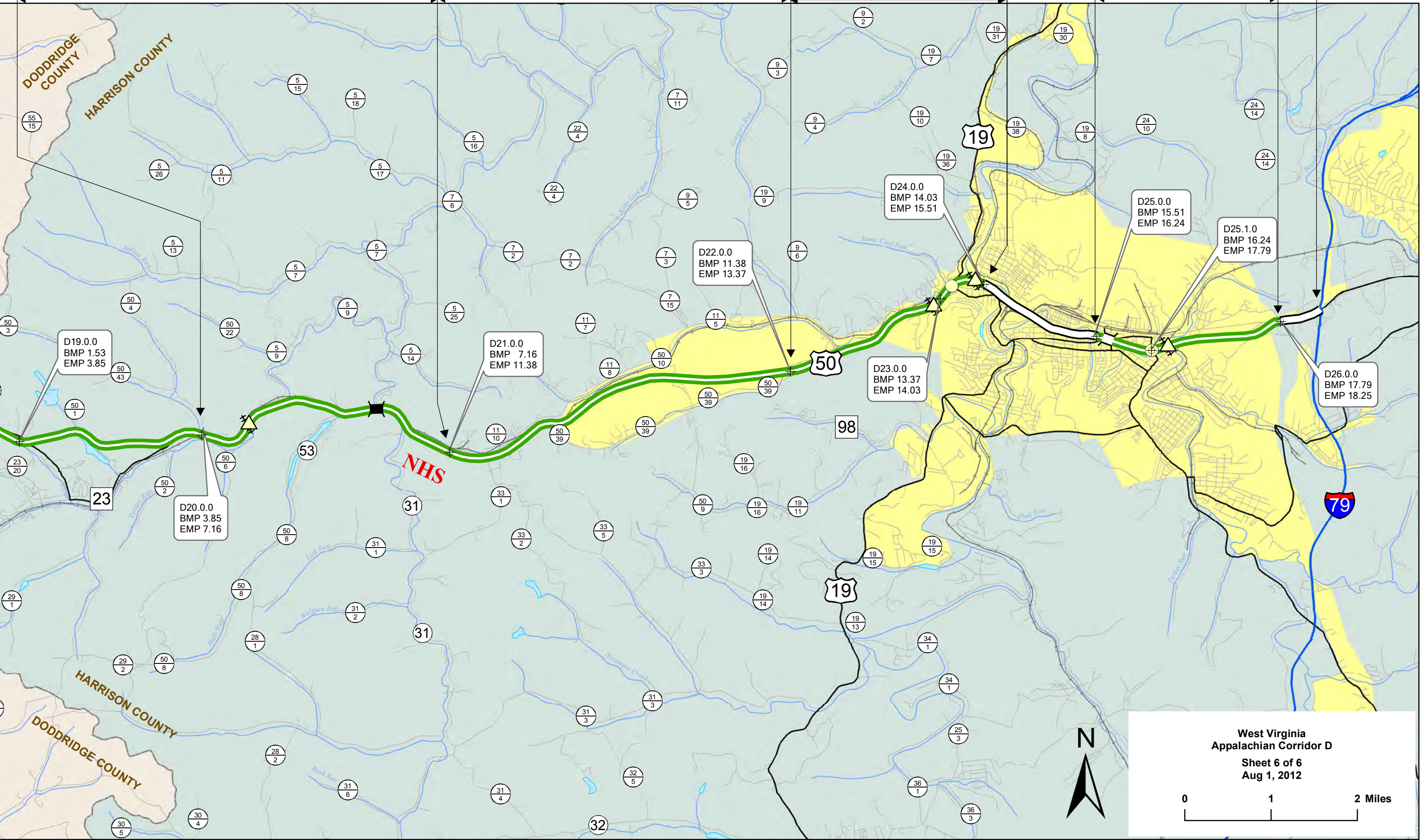
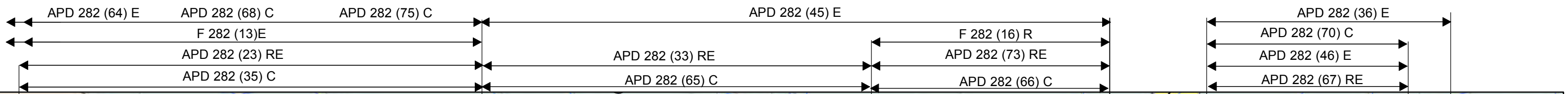
D10.0.0
BMP 11.02
EMP 12.89

D10.1.0
BMP 12.89
EMP 13.57

**West Virginia
Appalachian Corridor D**
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 Aug 1, 2012

0 1 2 Miles





2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: E

Section ID	E09.0.0	E10.0.0	E11.0.0	E12.0.0
LRS Milepoint: Beginning/Ending	14.660/17.980	17.980/20.970	20.970/23.340	23.340/32.060
Status	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20
2. Section Length(Miles)	3.3	3	2.4	8.7
3. Class/Urban Code	R/0	R/0	R/0	R/0
4. Location:				
---- a. FIPS State/County/Congressional	54/077/01	54/077/01	54/077/01	54/077/01
---- b. HPMS Route/Subroute	0000000068/00	0000000068/00	0000000068/00	0000000068/00
---- c. HPMS Signed Route/Strip Map #	1000000068/E2	1000000068/E2	1000000068/E2	1000000068/E3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	70	70	70	70
7. Traffic:				
---- a. ADT-Base Year (2010)	19,000	16,500	16,500	11,300
---- b. ADT-Year 2020	24,900	21,600	21,600	15,900
---- c. Design Year	1,990	1,991	1,991	1,991
---- d. ADT-Design Year	12,000	14,300	14,300	14,300
---- e. DHV-Design Year	1,708	2,002	2,002	2,002
---- f. % Truck Design Year(DHV)	7	7	7	7
---- g. % Truck Design Year(ADT)	12	12	14	14
---- h. Directional Distribution Factor	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4
10. Typical X-Section of Reference/Access Control	7/Full	1/Full	1/Full	1/Full
11. Right-of-Way Width(ft), prevailing	450	380	400	380
12. Median Width(ft), prevailing	40	40	40	40
13. Status of Development(Figure 4)	1a	1a	1a	1a

Estimated Cost(\$1,000) per Work Classification

14. Preliminary Engineering:				
---- a. Location	0	0	0	0
---- b. Design	0	0	0	0
15. Right-of-Way:				
---- a. Acquisition	0	0	0	0
---- b. Relocation	0	0	0	0
16. Utility Adjustments	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0
19. Railroad Grade Separations	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0
21. Interchanges	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0
23. Traffic Control	0	0	0	0
24. Environmental Mitigation	0	0	0	0
25. Roadside Improvements:				
---- a. Landscape Planting	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0
26. All Other Items	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0
28. Construction Engineering(8.00000000% of line 27)	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	0	0

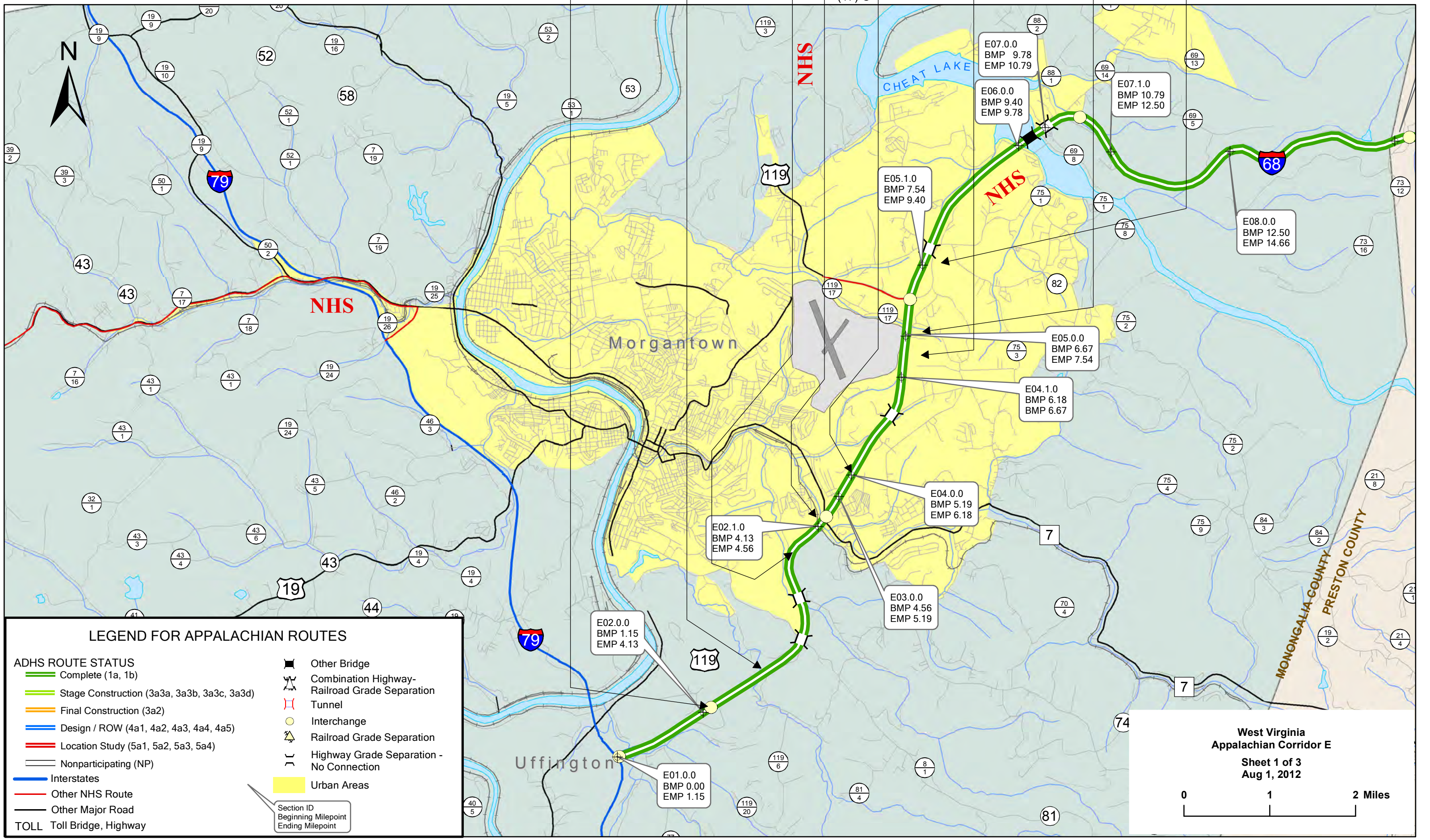
2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: E

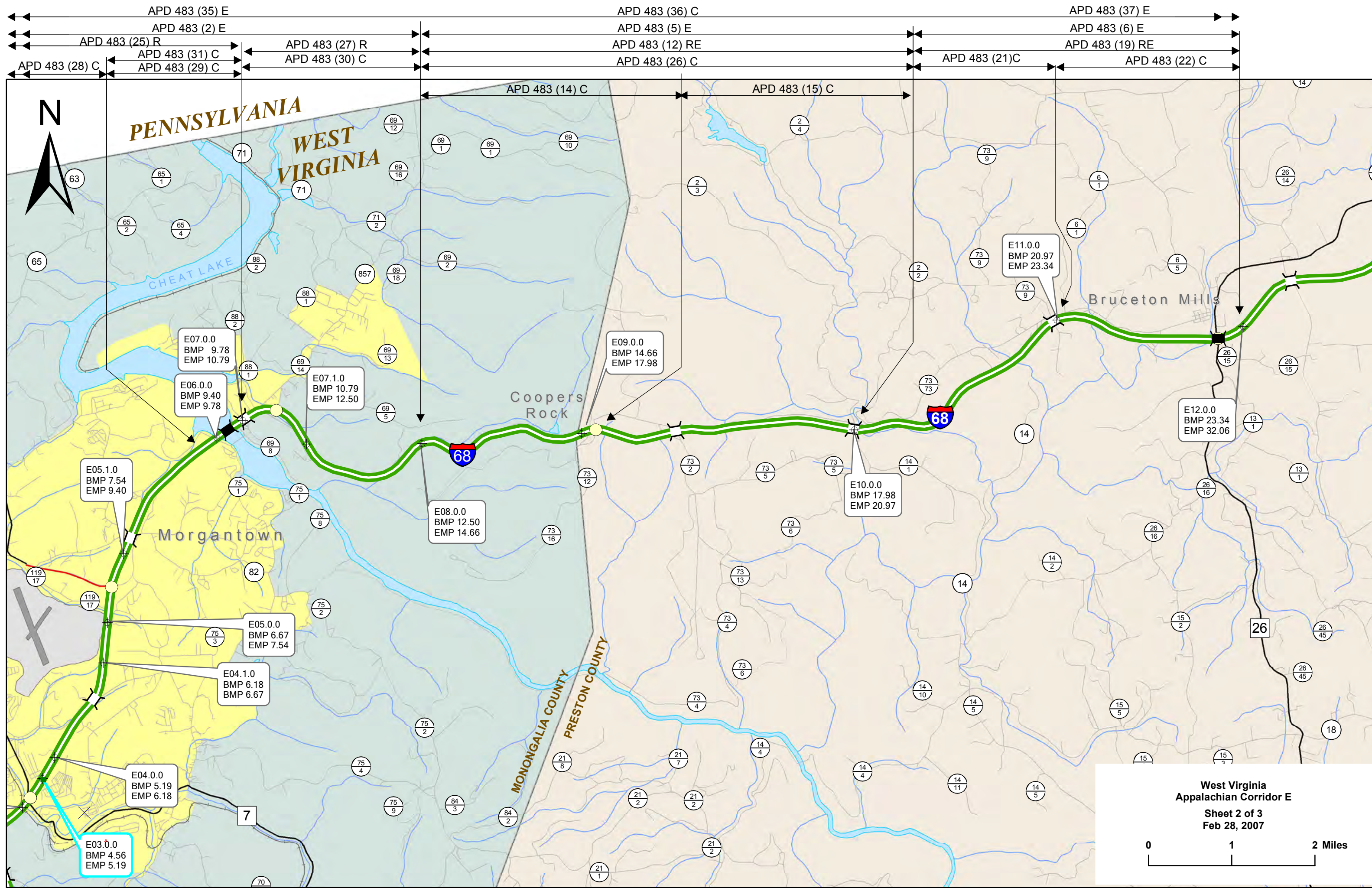
Section ID LRS Milepoint	Corridor Total	Rural Subtotal	Urban Subtotal
1. Finance Code 2. Section Length(Miles) 3. Class/Urban Code 4. Location: ---- a. FIPS State/County/Congressional ---- b. HPMS Route/Subroute ---- c. HPMS Signed Route/Strip Map # 5. Estimate Section/NHS Designation 6. Design Speed(mph) 7. Traffic: ---- a. ADT-Base Year (2010) ---- b. ADT-Year 2020 ---- c. Design Year ---- d. ADT-Design Year ---- e. DHV-Design Year ---- f. % Truck Design Year(DHV) ---- g. % Truck Design Year(ADT) ---- h. Directional Distribution Factor 8. Number of Lanes to be Constructed this Estimate 9. Ultimate Number of Through Traffic Lanes 10. Typical X-Section of Reference/Access Control 11. Right-of-Way Width(ft), prevailing 12. Median Width(ft), prevailing 13. Status of Development(Figure 4)	32.20	30.40	1.80
Estimated Cost(\$1,000) per Work Classification			
14. Preliminary Engineering: ---- a. Location ---- b. Design 15. Right-of-Way: ---- a. Acquisition ---- b. Relocation 16. Utility Adjustments			
17. Erosion Control/Clear/Grade/Drain/Minor Structure 18. Subbase, Base, Surfacing, Shoulders 19. Railroad Grade Separations 20. Highway Grade Separations without Ramps 21. Interchanges 22. Other Bridges, Tunnels, and Walls 23. Traffic Control 24. Environmental Mitigation 25. Roadside Improvements: ---- a. Landscape Planting ---- b. Rest Area, Overlooks 26. All Other Items			
27. Subtotal(lines 17 thru 26)			
28. Construction Engineering(8.00000000% of line 27)			
29. Total Cost of Construction(lines 27 & 28)			
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			

APD 483 (35) E	APD 483 (36) C	APD 483 (37) E
APD 483 (7) R	APD 483 (8) R	APD 483 (25) R
APD 483 (16) C	APD 483 (17) C	APD 483 (28) C
	APD 483 (18) C SUB I	APD 483 (18) C SUB II
	APD 483 (10) R	APD 483 (11)R

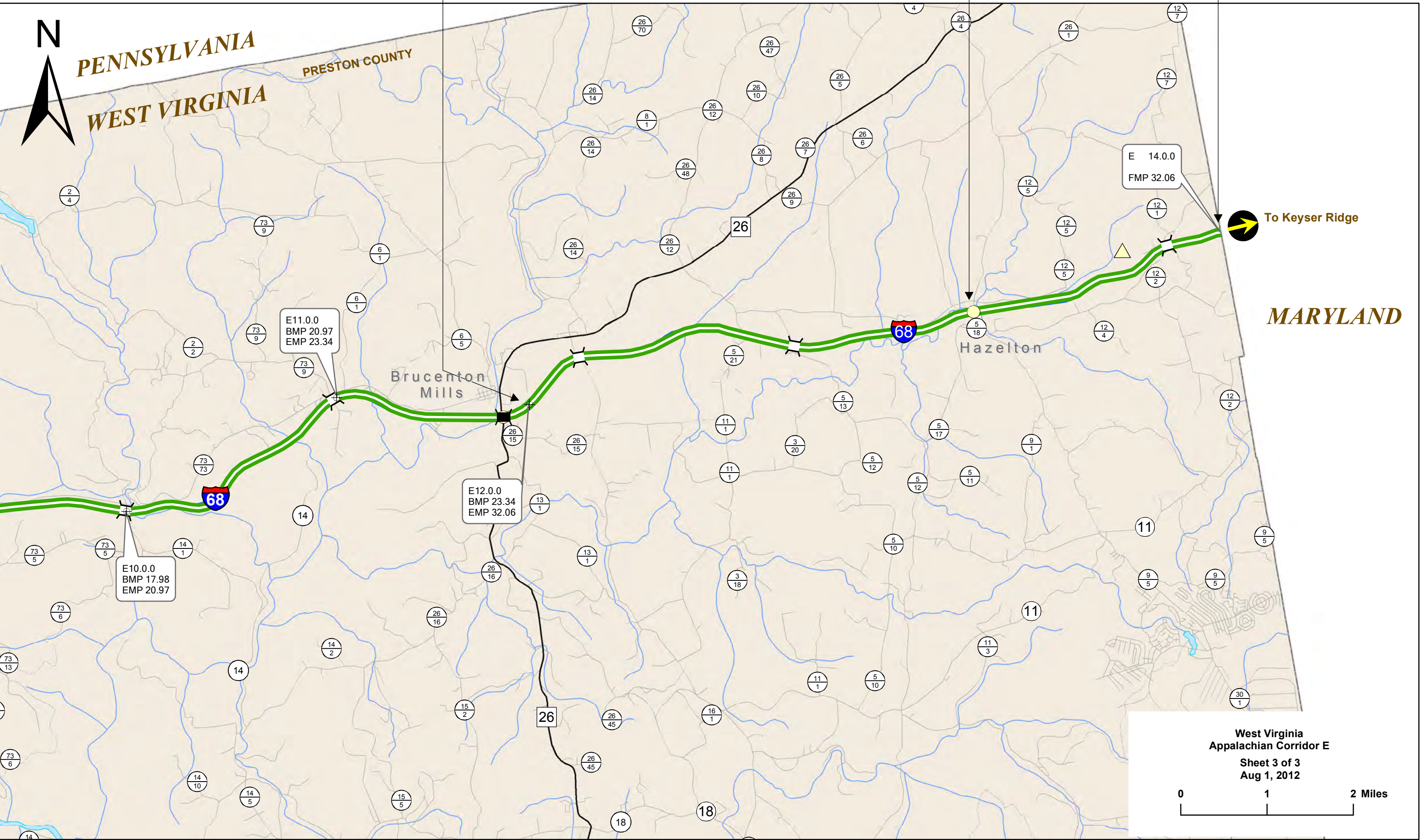


West Virginia
 Appalachian Corridor E
 Sheet 1 of 3
 Aug 1, 2012

0 1 2 Miles



APD 483 (35) E APD 483 (36) C APD 483 (37) E
 APD 483 (13) E
 APD 483 (20) RE
 APD 483 (23) C APD 483 (24) C



West Virginia
 Appalachian Corridor E
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 Aug 1, 2012



2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: G

Section ID	G29.0.0	G30.1.0
LRS Milepoint: Beginning/Ending	14.990/16.280	16.280/17.640
Status	Completed	NP
1. Finance Code	20	20
2. Section Length(Miles)	1.3	1.4
3. Class/Urban Code	U/101	U/101
4. Location:		
---- a. FIPS State/County/Congressional	54/039/02	54/039/02
---- b. HPMS Route/Subroute	0000000119/00	0000000119/00
---- c. HPMS Signed Route/Strip Map #	2000000119/G5	2000000119/G5
5. Estimate Section/NHS Designation	1/NHS	2/NHS
6. Design Speed(mph)	60	50
7. Traffic:		
---- a. ADT-Base Year (2010)	36,000	39,500
---- b. ADT-Year 2020	43,900	48,200
---- c. Design Year	2,002	1,992
---- d. ADT-Design Year	32,900	23,500
---- e. DHV-Design Year	3,290	2,585
---- f. % Truck Design Year(DHV)	1	1
---- g. % Truck Design Year(ADT)	3	3
---- h. Directional Distribution Factor	65	65
8. Number of Lanes to be Constructed this Estimate	0	0
9. Ultimate Number of Through Traffic Lanes	4	4
10. Typical X-Section of Reference/Access Control	1A/Partial	1/Partial
11. Right-of-Way Width(ft), prevailing	350	300
12. Median Width(ft), prevailing	40	25
13. Status of Development(Figure 4)	1a	np

Estimated Cost(\$1,000) per Work Classification

14. Preliminary Engineering:		
---- a. Location	0	0
---- b. Design	0	0
15. Right-of-Way:		
---- a. Acquisition	0	0
---- b. Relocation	0	0
16. Utility Adjustments	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0
19. Railroad Grade Separations	0	0
20. Highway Grade Separations without Ramps	0	0
21. Interchanges	0	0
22. Other Bridges, Tunnels, and Walls	0	0
23. Traffic Control	0	0
24. Environmental Mitigation	0	0
25. Roadside Improvements:		
---- a. Landscape Planting	0	0
---- b. Rest Area, Overlooks	0	0
26. All Other Items	0	0
27. Subtotal(lines 17 thru 26)	0	0
28. Construction Engineering(8.00000000% of line 27)	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

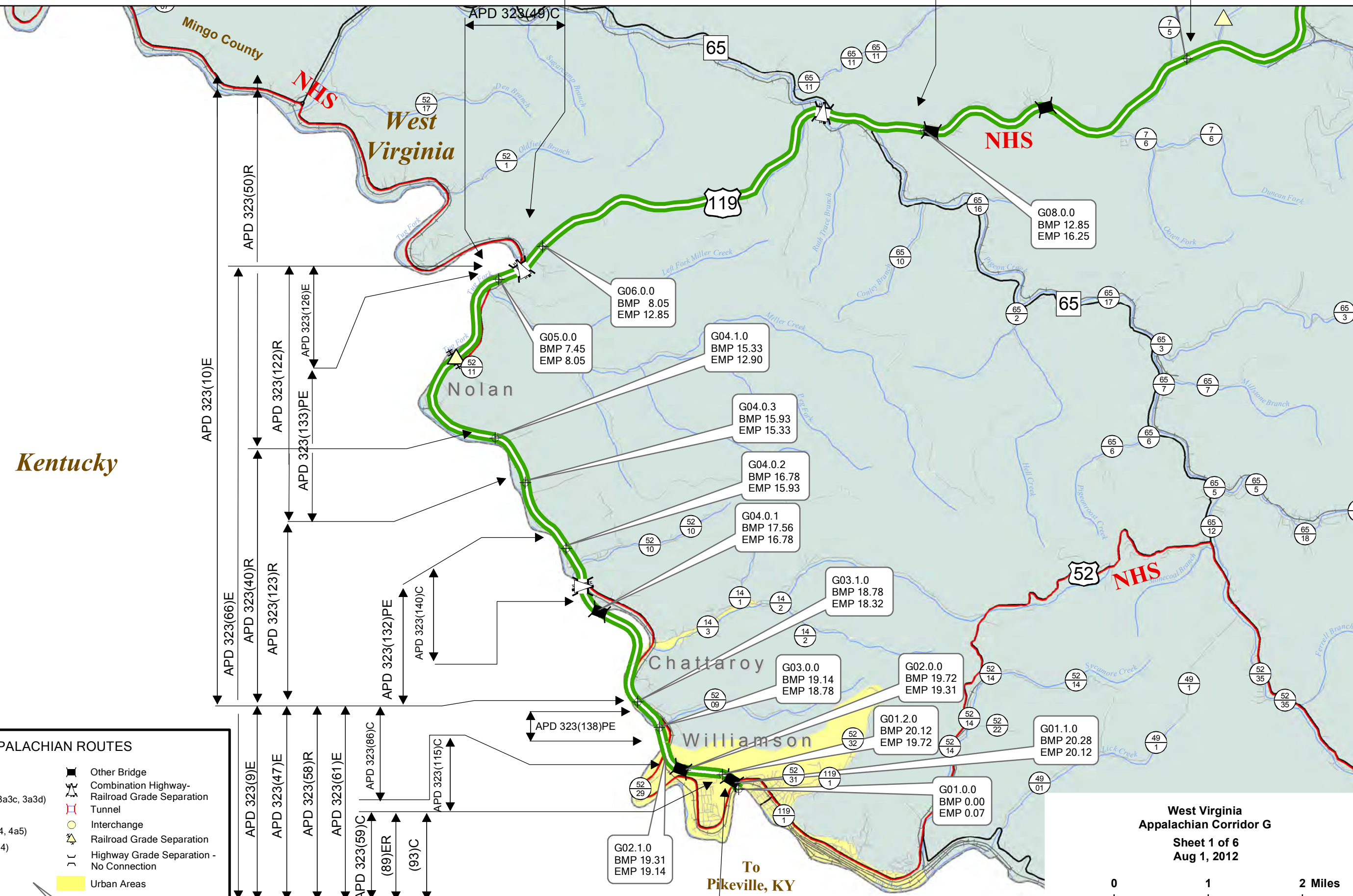
State: WV

ADHS Corridor: G

Section ID LRS Milepoint	Corridor Total	Rural Subtotal	Urban Subtotal
1. Finance Code 2. Section Length(Miles) 3. Class/Urban Code 4. Location: ---- a. FIPS State/County/Congressional ---- b. HPMS Route/Subroute ---- c. HPMS Signed Route/Strip Map # 5. Estimate Section/NHS Designation 6. Design Speed(mph) 7. Traffic: ---- a. ADT-Base Year (2010) ---- b. ADT-Year 2020 ---- c. Design Year ---- d. ADT-Design Year ---- e. DHV-Design Year ---- f. % Truck Design Year(DHV) ---- g. % Truck Design Year(ADT) ---- h. Directional Distribution Factor 8. Number of Lanes to be Constructed this Estimate 9. Ultimate Number of Through Traffic Lanes 10. Typical X-Section of Reference/Access Control 11. Right-of-Way Width(ft), prevailing 12. Median Width(ft), prevailing 13. Status of Development(Figure 4)	79.60	72.90	6.70
Estimated Cost(\$1,000) per Work Classification			
14. Preliminary Engineering: ---- a. Location ---- b. Design 15. Right-of-Way: ---- a. Acquisition ---- b. Relocation 16. Utility Adjustments 17. Erosion Control/Clear/Grade/Drain/Minor Structure 18. Subbase, Base, Surfacing, Shoulders 19. Railroad Grade Separations 20. Highway Grade Separations without Ramps 21. Interchanges 22. Other Bridges, Tunnels, and Walls 23. Traffic Control 24. Environmental Mitigation 25. Roadside Improvements: ---- a. Landscape Planting ---- b. Rest Area, Overlooks 26. All Other Items 27. Subtotal(lines 17 thru 26) 28. Construction Engineering(8.00000000% of line 27) 29. Total Cost of Construction(lines 27 & 28) 30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			



APD 323(10)E
 APD 323(50)R
 APD 323(44)C
 APD 323(43)RE
 APD 323(5)E
 APD 323(11)RE
 APD 323(23)C
 APD 323(45)C



Kentucky

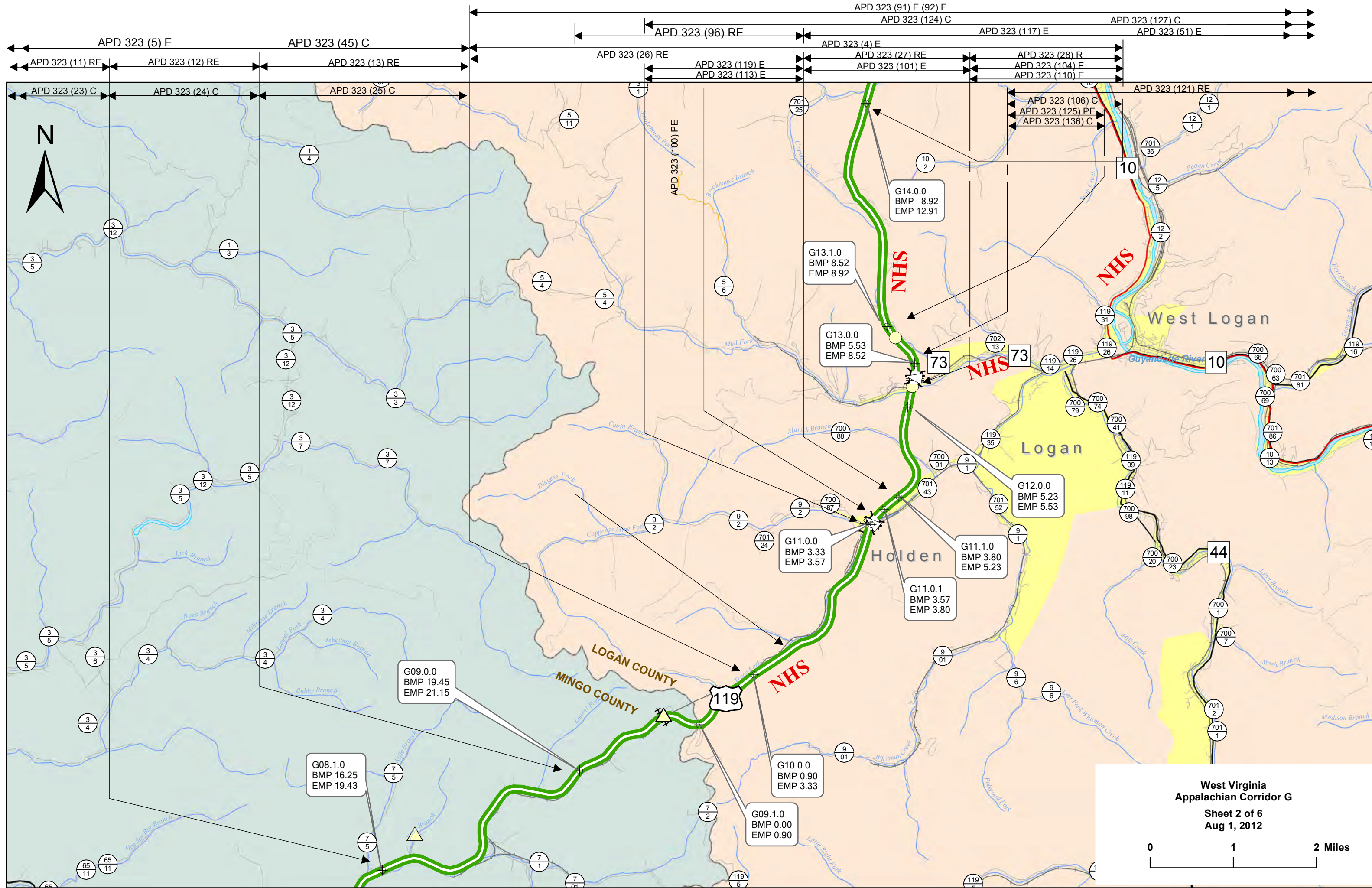
To
Pikeville, KY

LEGEND FOR APPALACHIAN ROUTES

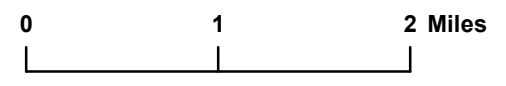
ADHS ROUTE STATUS	Other Bridge
Complete (1a, 1b)	Combination Highway-Railroad Grade Separation
Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)	Tunnel
Final Construction (3a2)	Interchange
Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)	Railroad Grade Separation
Location Study (5a1, 5a2, 5a3, 5a4)	Highway Grade Separation - No Connection
Nonparticipating (NP)	Urban Areas
Interstates	Section ID Beginning Milepoint Ending Milepoint
Other NHS Route	
Other Major Road	
TOLL Toll Bridge, Highway	

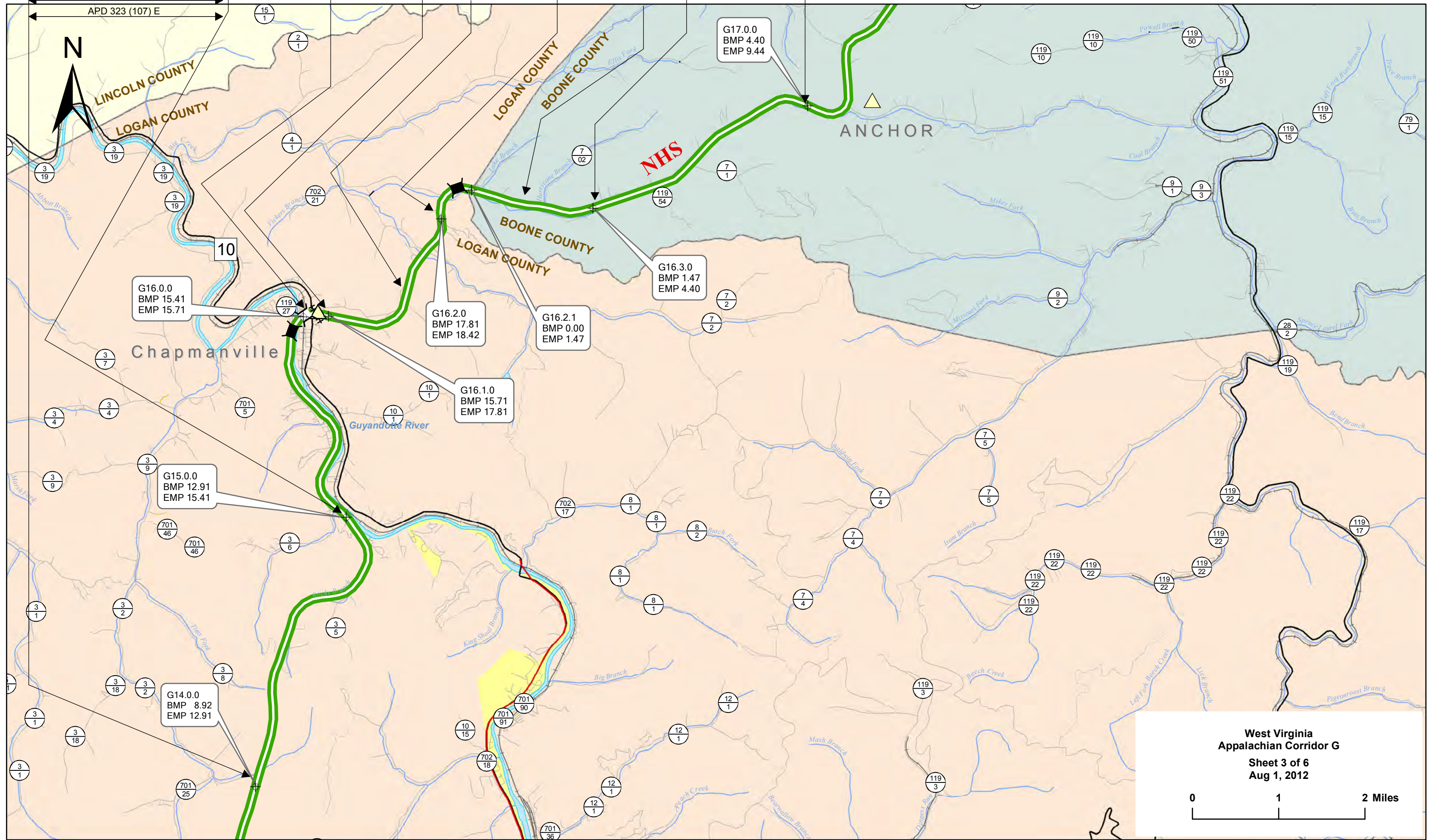
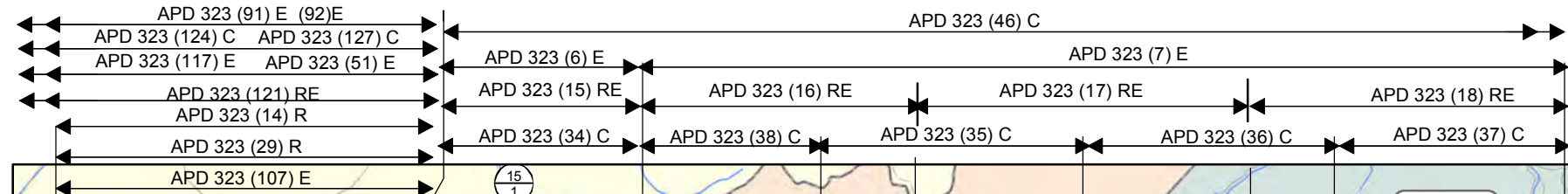
**West Virginia
 Appalachian Corridor G**

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 Aug 1, 2012



West Virginia
 Appalachian Corridor G
 Sheet 2 of 6
 Aug 1, 2012





**West Virginia
 Appalachian Corridor G**
 Sheet 3 of 6
 Aug 1, 2012

0 1 2 Miles

APD 323 (46) C

APD 323 (8) E

APD 323 (19) RE

APD 323 (39) C

APD 323 (22) RE

APD 323 (41) C

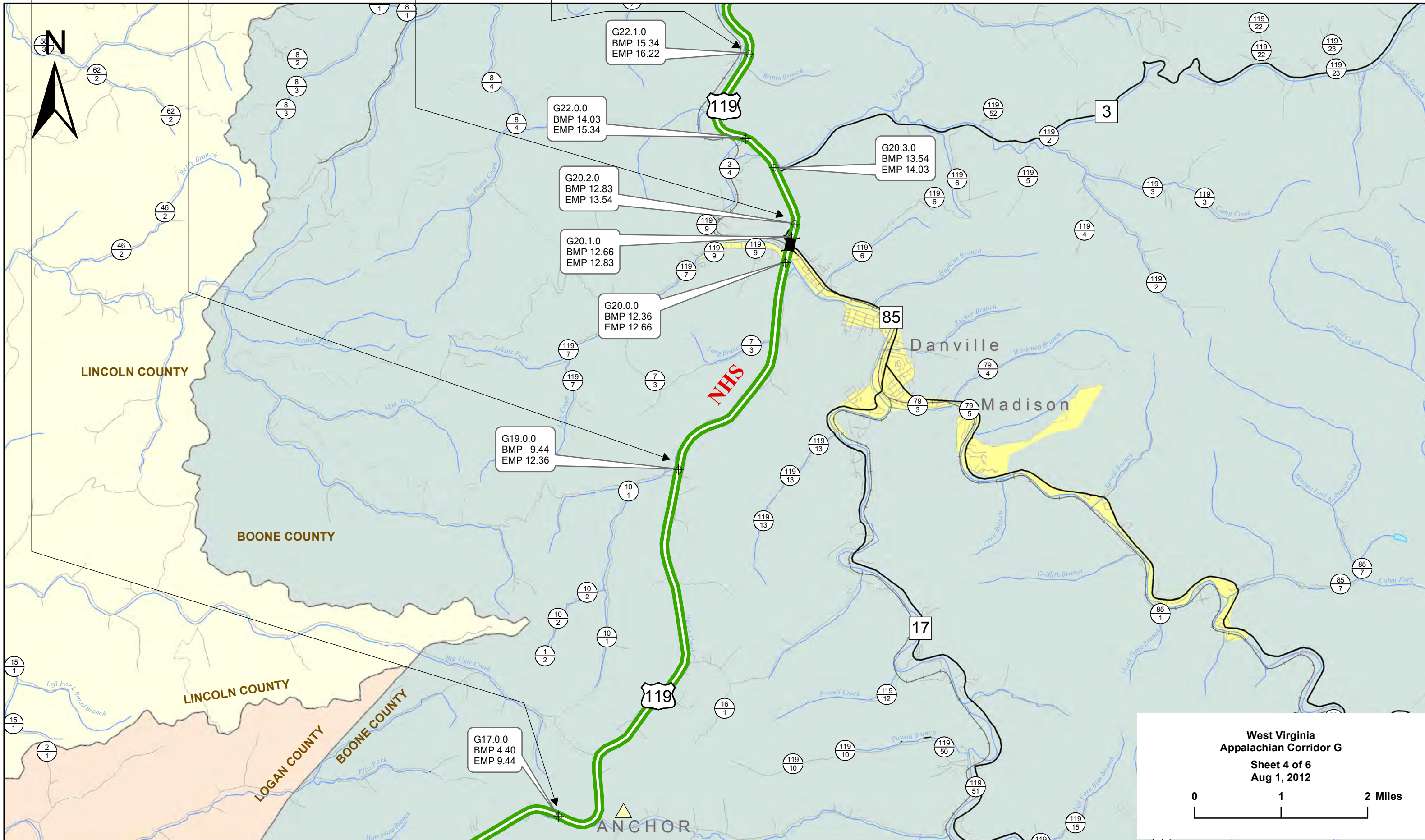
APD 323 (76) C

APD 323 (3) E

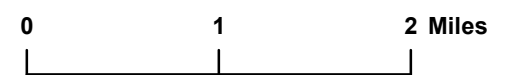
APD 323 (55) E

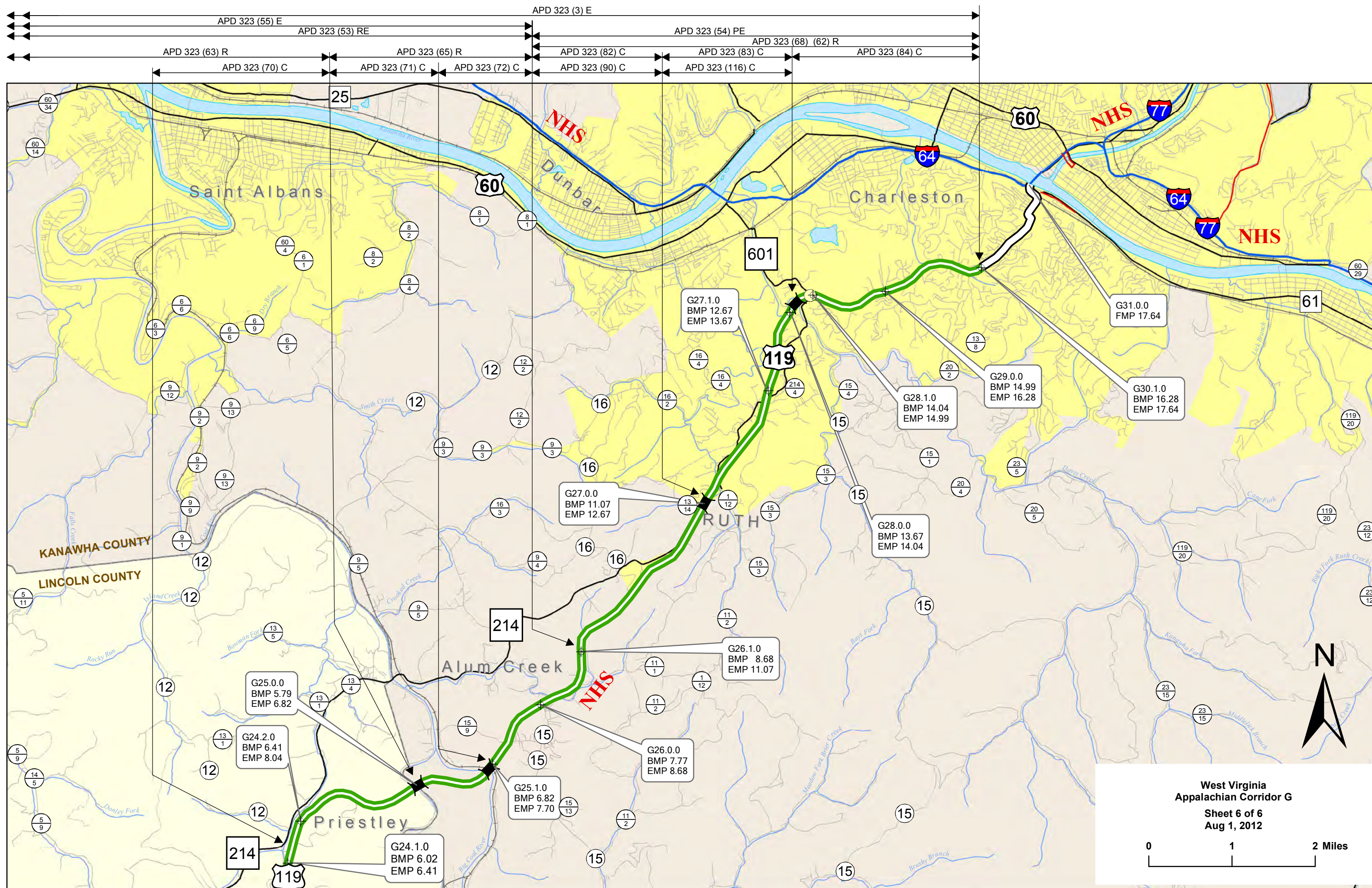
APD 323 (52) PE

APD 323 (64) R



**West Virginia
Appalachian Corridor G**
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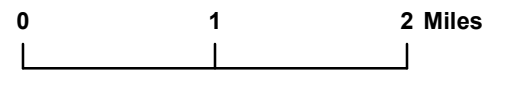


APD 323 (55) E
 APD 323 (53) RE
 APD 323 (63) R
 APD 323 (70) C
 APD 323 (65) R
 APD 323 (71) C
 APD 323 (72) C
 APD 323 (3) E
 APD 323 (82) C
 APD 323 (90) C
 APD 323 (54) PE
 APD 323 (83) C
 APD 323 (116) C
 APD 323 (68) (62) R
 APD 323 (84) C

KANAWHA COUNTY
 LINCOLN COUNTY



**West Virginia
 Appalachian Corridor G**
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G25.0.0
BMP 5.79
EMP 6.82

G24.2.0
BMP 6.41
EMP 8.04

G24.1.0
BMP 6.02
EMP 6.41

G25.1.0
BMP 6.82
EMP 7.70

G26.0.0
BMP 7.77
EMP 8.68

G26.1.0
BMP 8.68
EMP 11.07

G27.0.0
BMP 11.07
EMP 12.67

G27.1.0
BMP 12.67
EMP 13.67

G28.1.0
BMP 14.04
EMP 14.99

G29.0.0
BMP 14.99
EMP 16.28

G30.1.0
BMP 16.28
EMP 17.64

G31.0.0
FMP 17.64

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: H

Section ID	H10.1.0	H10.2.0	H11.0.0	H12.0.0	H12.1.0	H12.2.0
LRS Milepoint: Beginning/Ending	0.000/0.940	0.940/3.640	3.640/9.000	9.000/10.540	10.540/10.770	10.770/11.620
Status	Stage Construction	Completed	Completed	Design/RoW	Design/RoW	Design/RoW
1. Finance Code	21	20	20	23	23	23
2. Section Length(Miles)	0.9	2.7	5.4	1.5	0.2	0.9
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	54/083/02	54/083/02	54/083/02	54/083/02	54/083/02	54/083/02
---- b. HPMS Route/Subroute	0000000033/00	0000000033/00	0000000033/00	000033APD/00	000033APD/00	000033APD/00
---- c. HPMS Signed Route/Strip Map #	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	65	65	65	65	65	65
7. Traffic:						
---- a. ADT-Base Year (2010)	14,700	14,700	11,900	11,900	11,900	11,900
---- b. ADT-Year 2020	23,200	23,200	18,700	18,700	18,700	18,700
---- c. Design Year	2,025	2,025	2,025	2,025	2,025	2,025
---- d. ADT-Design Year	46,900	39,700	25,300	25,100	25,100	25,100
---- e. DHV-Design Year	4,690	3,970	2,530	2,510	2,510	2,510
---- f. % Truck Design Year(DHV)	12	12	12	11	11	11
---- g. % Truck Design Year(ADT)	15	15	15	17	17	17
---- h. Directional Distribution Factor	60	60	60	55	55	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	4	4	4
9. Ultimate Number of Through Traffic Lanes	5	5	4	4	4	4
10. Typical X-Section of Reference/Access Control	8B/Full	8B/Partial	8B/Partial	8C/Partial	17/Full	8C/Partial
11. Right-of-Way Width(ft), prevailing	500	450	700	450	160	450
12. Median Width(ft), prevailing	46	46	46	46	46	46
13. Status of Development(Figure 4)	3a3a	1a	1a	4a3	4a3	4a3

Estimated Cost(\$1,000) per Work Classification

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	0	0	0	1,773	236	1,063
15. Right-of-Way:						
---- a. Acquisition	0	0	0	1,481	198	889
---- b. Relocation	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0	0	0
21. Interchanges	38,920	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- a. Landscape Planting	0	0	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0	0	0
26. All Other Items	472	0	0	23,394	6,125	9,959
27. Subtotal(lines 17 thru 26)	39,392	0	0	23,394	6,125	9,959
28. Construction Engineering(8.00000000% of line 27)	3,151	0	0	1,872	490	797
29. Total Cost of Construction(lines 27 & 28)	42,543	0	0	25,266	6,615	10,756
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	44,671	0	0	29,945	7,401	13,343

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: H

Section ID	H12.3.0	H12.4.0	H12.5.0	H12.6.0	H15.0.0	H15.1.0
LRS Milepoint: Beginning/Ending	11.620/11.830	11.830/12.320	12.320/12.520	12.520/13.180	0.000/2.760	2.760/3.040
Status	Design/RoW	Design/RoW	Design/RoW	Design/RoW	Design/RoW	Design/RoW
1. Finance Code	23	23	23	23	23	23
2. Section Length(Miles)	0.2	0.5	0.2	0.7	2.8	0.3
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	54/083/02	54/083/02	54/083/02	54/083/02	54/093/01	54/093/01
---- b. HPMS Route/Subroute	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00
---- c. HPMS Signed Route/Strip Map #	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	65	65	65	65	65	65
7. Traffic:						
---- a. ADT-Base Year (2010)	11,900	11,900	11,900	11,900	11,900	11,900
---- b. ADT-Year 2020	18,800	18,800	18,800	18,800	18,800	18,800
---- c. Design Year	2,025	2,025	2,025	2,025	2,025	2,025
---- d. ADT-Design Year	25,100	25,100	25,100	25,100	25,100	25,100
---- e. DHV-Design Year	2,510	2,510	2,510	2,510	2,510	2,510
---- f. % Truck Design Year(DHV)	11	11	11	11	11	11
---- g. % Truck Design Year(ADT)	17	17	17	17	17	17
---- h. Directional Distribution Factor	55	55	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	4	4	4	4	4	4
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	17/Full	8C/Partial	17/Full	8C/Partial	8C/Partial	17/Full
11. Right-of-Way Width(ft), prevailing	160	450	160	450	450	160
12. Median Width(ft), prevailing	46	46	46	46	46	46
13. Status of Development(Figure 4)	4a3	4a3	4a3	4a3	4a3	4a3

Estimated Cost(\$1,000) per Work Classification

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	236	591	236	827	3,308	354
15. Right-of-Way:						
---- a. Acquisition	197	493	198	691	2,764	295
---- b. Relocation	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- a. Landscape Planting	0	0	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0	0	0
26. All Other Items	12,887	5,533	14,306	7,746	60,497	23,018
27. Subtotal(lines 17 thru 26)	12,887	5,533	14,306	7,746	60,497	23,018
28. Construction Engineering(8.00000000% of line 27)	1,031	443	1,144	620	4,840	1,841
29. Total Cost of Construction(lines 27 & 28)	13,918	5,976	15,450	8,366	65,337	24,859
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	15,069	7,413	16,679	10,378	74,979	26,784

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: H

Section ID	H15.2.0	H15.3.0	H15.4.0	H21.0.0	H21.1.0	H27.0.0
LRS Milepoint: Beginning/Ending	3.040/3.800	3.800/4.060	4.060/6.830	6.830/7.530	7.530/10.280	10.280/10.500
Status	Design/RoW	Design/RoW	Design/RoW	Design/RoW	Design/RoW	Design/RoW
1. Finance Code	23	23	23	23	23	23
2. Section Length(Miles)	0.8	0.3	2.8	0.7	2.8	0.2
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	54/093/01	54/093/01	54/093/01	54/093/01	54/093/01	54/093/01
---- b. HPMS Route/Subroute	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00
---- c. HPMS Signed Route/Strip Map #	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4	2000000033/H4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	65	65	65	65	65	65
7. Traffic:						
---- a. ADT-Base Year (2010)	12,200	12,200	12,200	12,200	12,200	12,200
---- b. ADT-Year 2020	19,900	19,900	19,900	19,900	19,900	19,900
---- c. Design Year	2,025	2,025	2,025	2,025	2,025	2,025
---- d. ADT-Design Year	28,400	28,400	28,400	28,400	28,400	28,400
---- e. DHV-Design Year	2,840	2,840	2,840	2,840	2,840	2,840
---- f. % Truck Design Year(DHV)	11	11	11	11	11	11
---- g. % Truck Design Year(ADT)	17	17	17	17	17	17
---- h. Directional Distribution Factor	55	55	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	4	4	4	4	4	4
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	8C/Partial	17/Full	8C/Full	8C/Full	8C/Partial	17/Full
11. Right-of-Way Width(ft), prevailing	450	160	450	450	450	160
12. Median Width(ft), prevailing	46	46	46	46	46	46
13. Status of Development(Figure 4)	4a3	4a3	4a3	4a3	4a3	4a3

Estimated Cost(\$1,000) per Work Classification

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	945	354	3,308	827	3,308	236
15. Right-of-Way:						
---- a. Acquisition	789	297	2,764	692	2,763	197
---- b. Relocation	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0	0
23. Traffic Control	0	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0	0
25. Roadside Improvements:						
---- a. Landscape Planting	0	0	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0	0	0
26. All Other Items	8,853	17,544	43,669	26,713	30,985	23,018
27. Subtotal(lines 17 thru 26)	8,853	17,544	43,669	26,713	30,985	23,018
28. Construction Engineering(8.00000000% of line 27)	708	1,404	3,494	2,137	2,479	1,841
29. Total Cost of Construction(lines 27 & 28)	9,561	18,948	47,163	28,850	33,464	24,859
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	11,860	20,578	55,896	31,887	41,512	26,557

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: H

Section ID	H27.1.0	H29.0.0	H30.0.0	H31.0.0	H32.0.0	H33.0.0
LRS Milepoint: Beginning/Ending	10.500/18.010	18.010/18.210	18.210/18.690	18.690/20.830	20.830/26.210	26.210/30.910
Status	Location Study	Location Study	Location Study	Location Study	Design/RoW	Design/RoW
1. Finance Code	23	23	23	22	23	22
2. Section Length(Miles)	7.5	0.2	0.5	2.1	5.4	5.4
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	54/093/01	54/093/01	54/093/01	54/093/01	54/093/01	54/093/01
---- b. HPMS Route/Subroute	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00
---- c. HPMS Signed Route/Strip Map #	2000000033/H4	2000000033/H5	2000000033/H5	2000000033/H5	2000000033/H5	2000000033/H6
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	65	65	65	65	65	65
7. Traffic:						
---- a. ADT-Base Year (2010)	12,200	10,300	10,300	10,300	10,300	10,800
---- b. ADT-Year 2020	19,900	16,900	16,900	16,900	16,900	17,500
---- c. Design Year	2,025	2,025	2,025	2,025	2,025	2,025
---- d. ADT-Design Year	28,900	24,400	24,400	24,400	24,400	25,500
---- e. DHV-Design Year	2,890	2,440	2,440	2,440	2,440	2,550
---- f. % Truck Design Year(DHV)	11	11	11	11	11	11
---- g. % Truck Design Year(ADT)	17	17	17	17	17	17
---- h. Directional Distribution Factor	55	55	55	55	55	55
8. Number of Lanes to be Constructed this Estimate	4	4	4	4	4	4
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	8C/Partial	17/Full	8C/Full	8C/Partial	8C/Partial	8C/Partial
11. Right-of-Way Width(ft), prevailing	450	160	500	300	300	300
12. Median Width(ft), prevailing	46	46	46	46	46	46
13. Status of Development(Figure 4)	5a1	5a1	5a1	5a1	4a1	4a1

Estimated Cost(\$1,000) per Work Classification

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	0	0	0	0	0	0
15. Right-of-Way:						
---- a. Acquisition	0	0	0	0	0	0
---- b. Relocation	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	11,700	9,400
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	12,100	9,725
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0	1,505	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	449	360
23. Traffic Control	0	0	0	0	1,667	1,340
24. Environmental Mitigation	0	0	0	0	210	170
25. Roadside Improvements:						
---- a. Landscape Planting	0	0	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0	0	0
26. All Other Items	135,750	15,148	6,785	38,010	1,779	1,448
27. Subtotal(lines 17 thru 26)	135,750	15,148	6,785	38,010	29,410	22,443
28. Construction Engineering(8.00000000% of line 27)	10,860	1,212	543	3,041	2,353	1,795
29. Total Cost of Construction(lines 27 & 28)	146,610	16,360	7,328	41,051	31,763	24,238
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	153,940	17,178	7,694	43,103	33,351	25,450

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: H

Section ID	H61.0.0	H62.0.0	H62.1.0	H63.0.0
LRS Milepoint: Beginning/Ending	29.370/32.090	32.090/32.790	32.790/34.290	34.290/35.870
Status	Location Study	Location Study	NP	Location Study
1. Finance Code	23	23	20	23
2. Section Length(Miles)	2.7	0.7	1.5	1.6
3. Class/Urban Code	R/0	R/0	R/0	R/0
4. Location:				
---- a. FIPS State/County/Congressional	54/031/02	54/031/02	54/031/02	54/031/02
---- b. HPMS Route/Subroute	0000033APD/00	0000033APD/00	0000033APD/00	0000033APD/00
---- c. HPMS Signed Route/Strip Map #	2000000033/H10	2000000033/H10	2000000033/H10	2000000033/H10
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	65	65	65	65
7. Traffic:				
---- a. ADT-Base Year (2010)	11,300	11,300	11,300	11,300
---- b. ADT-Year 2020	18,000	18,000	18,000	18,000
---- c. Design Year	2,030	2,030	2,030	2,030
---- d. ADT-Design Year	25,600	25,600	25,600	25,600
---- e. DHV-Design Year	2,560	2,560	2,560	2,560
---- f. % Truck Design Year(DHV)	11	11	11	12
---- g. % Truck Design Year(ADT)	17	17	17	15
---- h. Directional Distribution Factor	55	55	55	60
8. Number of Lanes to be Constructed this Estimate	4	4	4	4
9. Ultimate Number of Through Traffic Lanes	4	4	4	4
10. Typical X-Section of Reference/Access Control	8C/Partial	8C/Full	8C/Partial	8C/Partial
11. Right-of-Way Width(ft), prevailing	450	450	450	450
12. Median Width(ft), prevailing	46	46	46	46
13. Status of Development(Figure 4)	5a1	5a1	np	5a1

Estimated Cost(\$1,000) per Work Classification

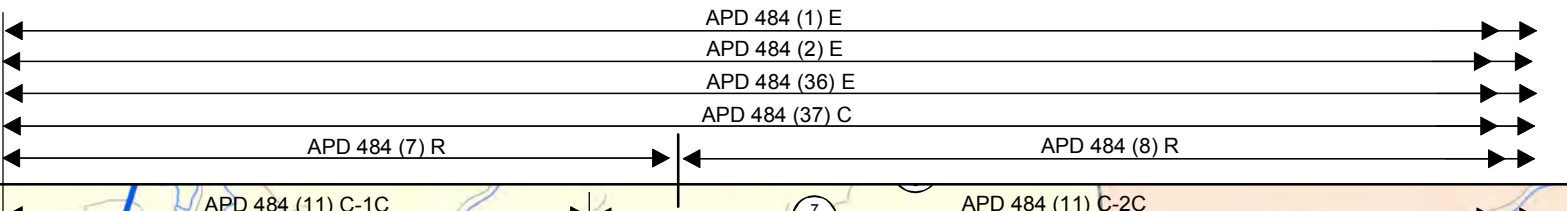
14. Preliminary Engineering:				
---- a. Location	0	0	0	0
---- b. Design	0	0	0	0
15. Right-of-Way:				
---- a. Acquisition	0	0	0	0
---- b. Relocation	0	0	0	0
16. Utility Adjustments	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0
19. Railroad Grade Separations	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0
21. Interchanges	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0
23. Traffic Control	0	0	0	0
24. Environmental Mitigation	0	0	0	0
25. Roadside Improvements:				
---- a. Landscape Planting	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0
26. All Other Items	48,870	12,670	0	21,712
27. Subtotal(lines 17 thru 26)	48,870	12,670	0	21,712
28. Construction Engineering(8.00000000% of line 27)	3,910	1,014	0	1,737
29. Total Cost of Construction(lines 27 & 28)	52,780	13,684	0	23,449
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	55,419	14,368	0	24,621

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: H

Section ID LRS Milepoint	Corridor Total	Rural Subtotal	Urban Subtotal
1. Finance Code			
2. Section Length(Miles)	134.30	133.40	0.90
3. Class/Urban Code			
4. Location:			
---- a. FIPS State/County/Congressional			
---- b. HPMS Route/Subroute			
---- c. HPMS Signed Route/Strip Map #			
5. Estimate Section/NHS Designation			
6. Design Speed(mph)			
7. Traffic:			
---- a. ADT-Base Year (2010)			
---- b. ADT-Year 2020			
---- c. Design Year			
---- d. ADT-Design Year			
---- e. DHV-Design Year			
---- f. % Truck Design Year(DHV)			
---- g. % Truck Design Year(ADT)			
---- h. Directional Distribution Factor			
8. Number of Lanes to be Constructed this Estimate			
9. Ultimate Number of Through Traffic Lanes			
10. Typical X-Section of Reference/Access Control			
11. Right-of-Way Width(ft), prevailing			
12. Median Width(ft), prevailing			
13. Status of Development(Figure 4)			
Estimated Cost(\$1,000) per Work Classification			
14. Preliminary Engineering:			
---- a. Location			
---- b. Design	17,602	17,602	
15. Right-of-Way:			
---- a. Acquisition	14,708	14,708	
---- b. Relocation			
16. Utility Adjustments			
17. Erosion Control/Clear/Grade/Drain/Minor Structure	21,100	21,100	
18. Subbase, Base, Surfacing, Shoulders	21,825	21,825	
19. Railroad Grade Separations			
20. Highway Grade Separations without Ramps	1,505	1,505	
21. Interchanges	38,920	38,920	
22. Other Bridges, Tunnels, and Walls	809	809	
23. Traffic Control	3,007	3,007	
24. Environmental Mitigation	380	380	
25. Roadside Improvements:			
---- a. Landscape Planting			
---- b. Rest Area, Overlooks			
26. All Other Items	596,891	596,891	
27. Subtotal(lines 17 thru 26)	684,437	684,437	
28. Construction Engineering(8.00000000% of line 27)	54,755	54,755	
29. Total Cost of Construction(lines 27 & 28)	739,192	739,192	
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	810,077	810,077	



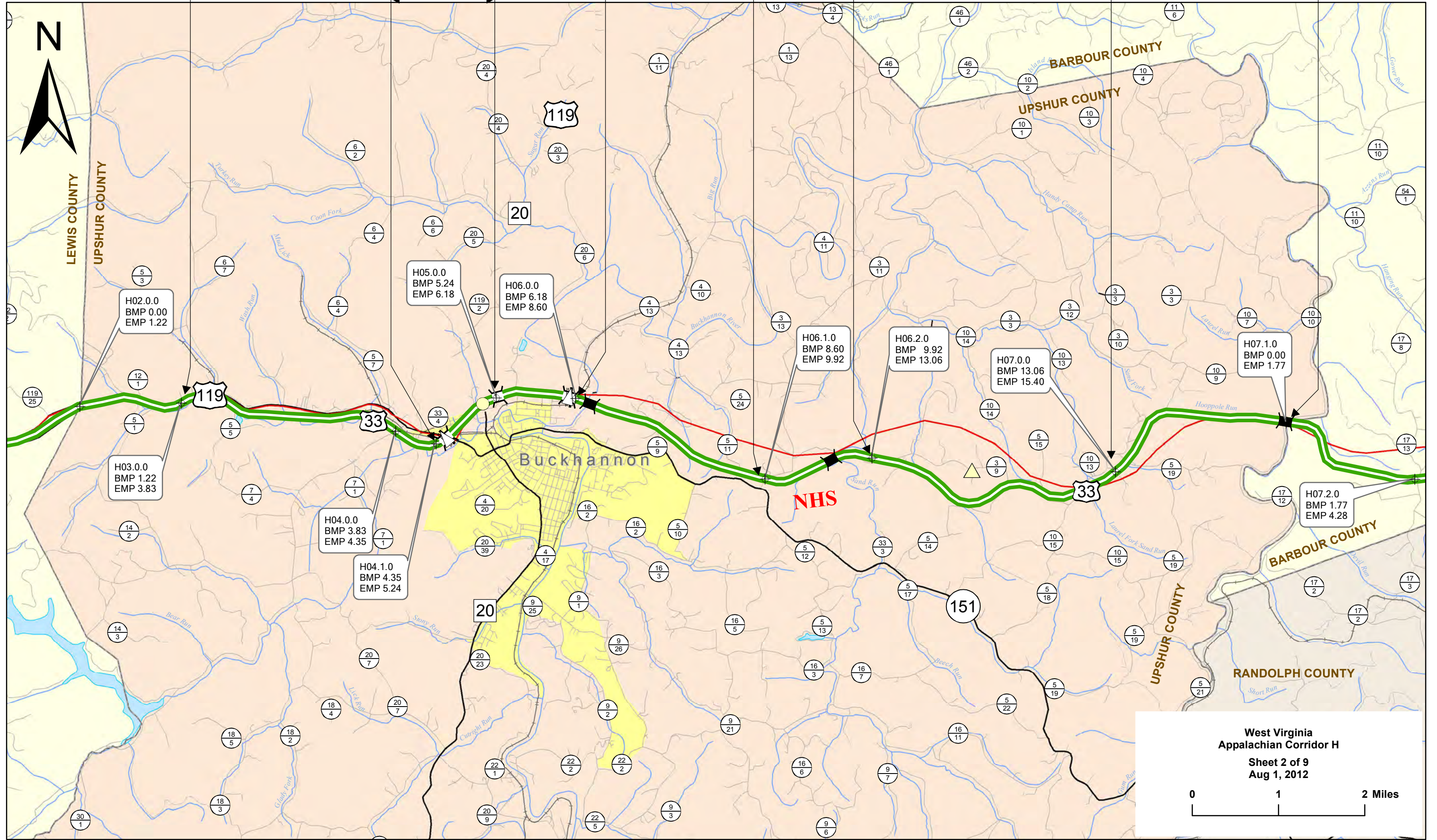
LEGEND FOR APPALACHIAN ROUTES

ADHS ROUTE STATUS		Other Bridge
Complete (1a, 1b)	Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)	Combination Highway-Railroad Grade Separation
Final Construction (3a2)	Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)	Tunnel
Location Study (5a1, 5a2, 5a3, 5a4)	Nonparticipating (NP)	Interchange
Interstates	Other NHS Route	Railroad Grade Separation
Other Major Road	Urban Areas	Highway Grade Separation - No Connection
TOLL Toll Bridge, Highway		

Section ID
Beginning Milepoint
Ending Milepoint

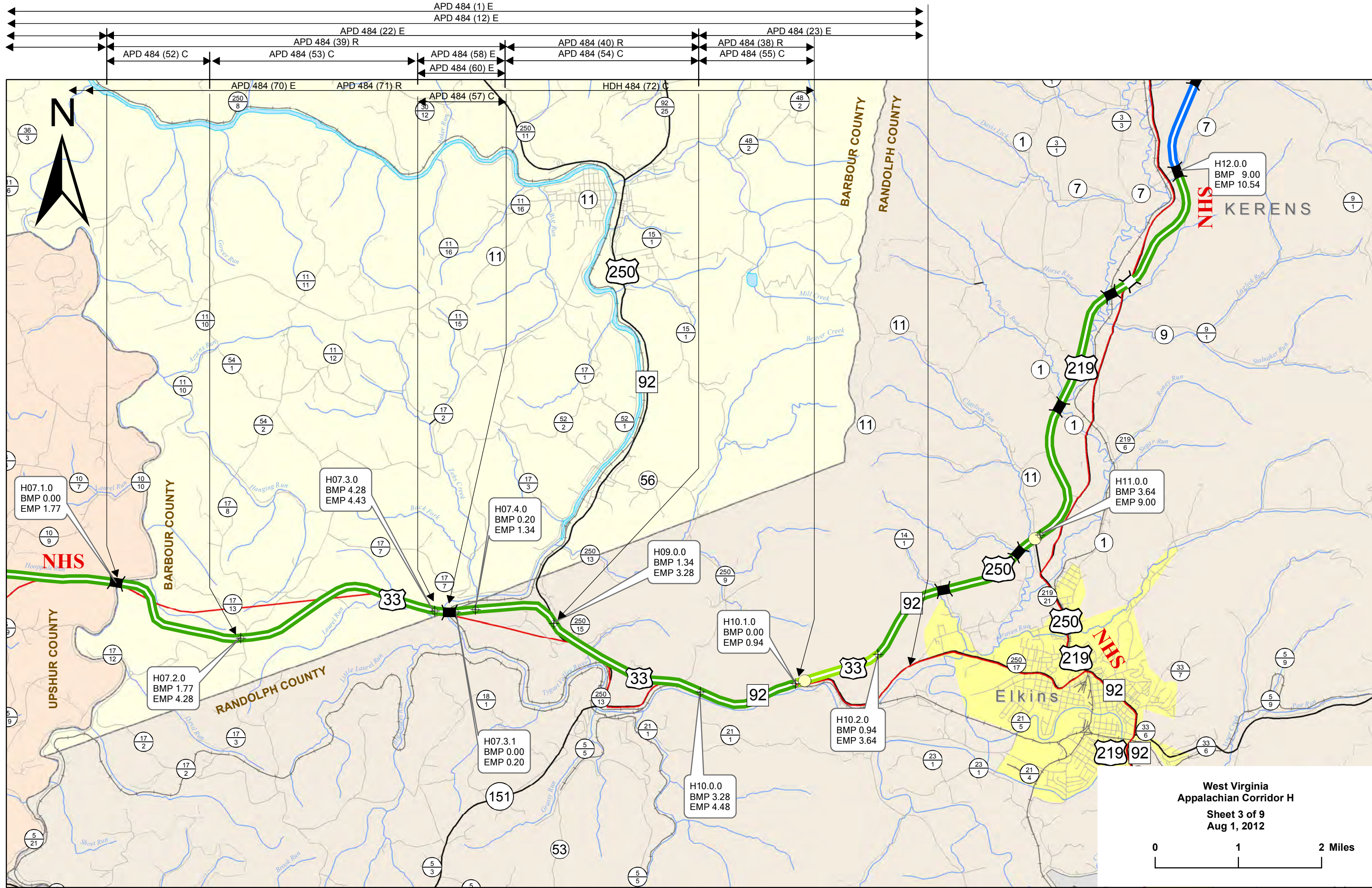
**West Virginia
Appalachian Corridor H**
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Aug 1, 2012

APD 484 (2) E
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 APD 484 (8) R
 APD 484 (11) C-2C
 APD 484 (41) R
 APD 484 (45) C
 CHI 484 (46) C
 CHI APD 484 (47) C
 APD 484 (56) E
 APD 484 (42) R
 APD 484 (48) C
 APD 484 (68) C
 APD 484 (1) E
 APD 484 (12) E
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 APD 484 (71) R
 APD 484 (51) C
 HDH 484 (72) C

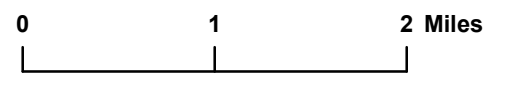


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 Appalachian Corridor H
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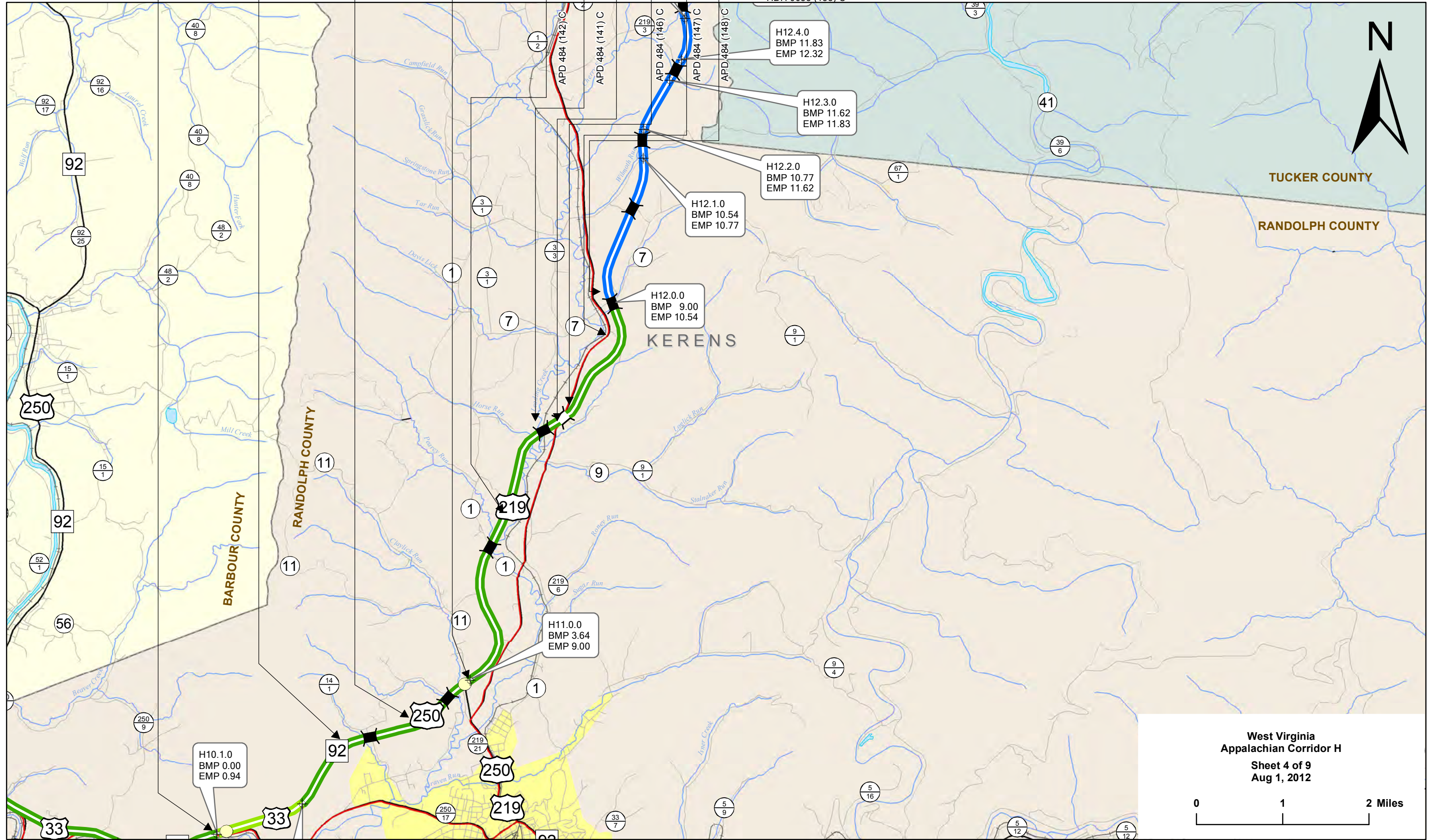
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 Appalachian Corridor H
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CHHD 484 (59) E APD 484 (76) E CHI 484 (73) E APD 484 (121) E CHI 484 (129) E NFA 484 (149) E
 APD 484 (77) R ADP 484 (279) E
 APD 484 (140) C APD 484 (145) C APD 484 (144) C APD 484 (143) C HDH 0033 (136)R- HDH0033 (137) C HDH 0033 (153) C



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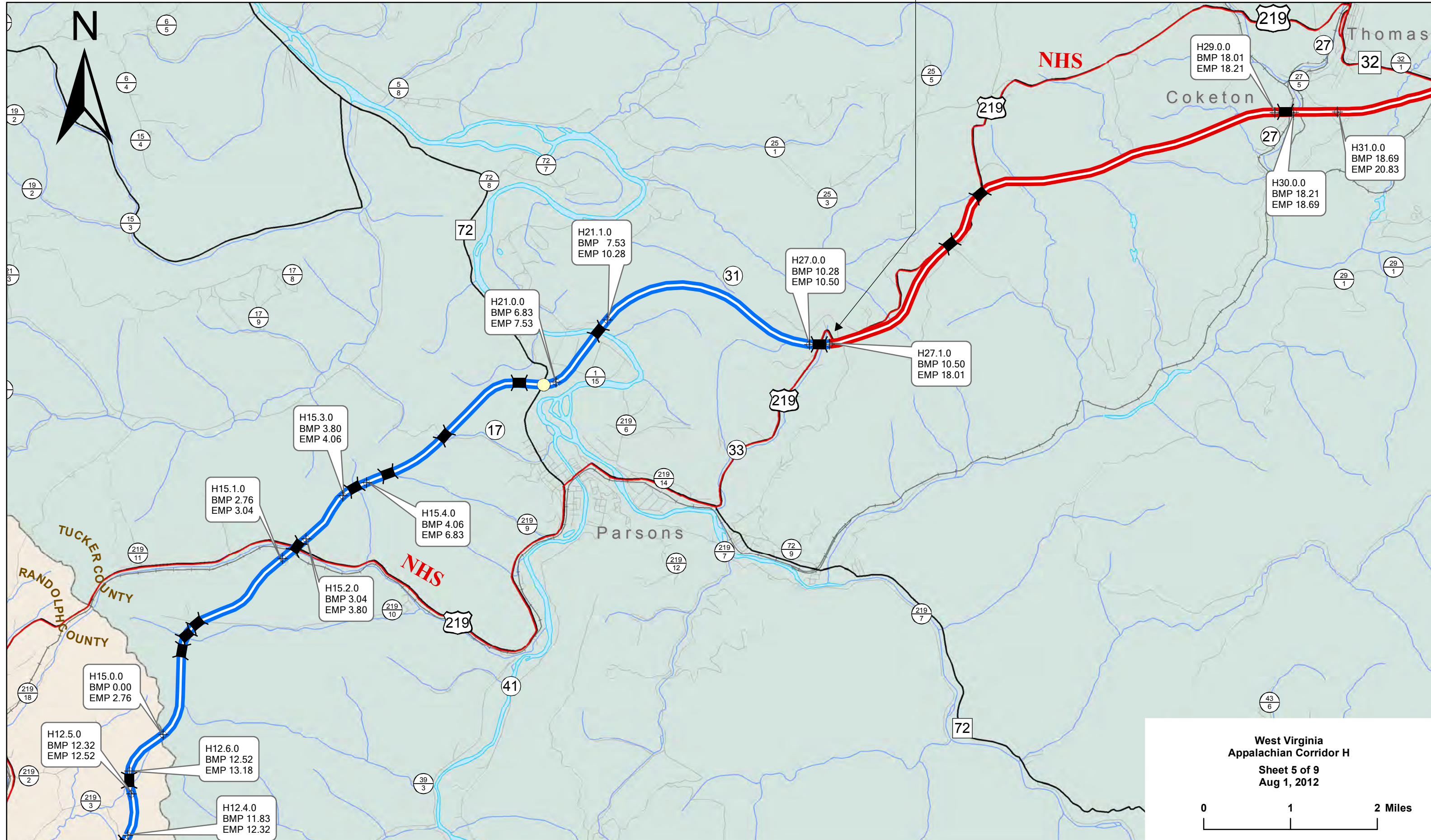
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H12.4.0
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EMP 4.06

H15.1.0
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EMP 3.04

H15.4.0
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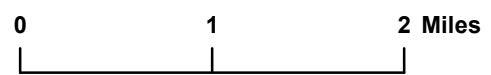
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APD 484 (181) CE
APD 484 (182) CRW

APD 484 (183) CE
APD 484 (184) CRW

APD 484 (185) CE
APD 484 (186) CRW

APD 484 (188) R

APD 484 (190) R

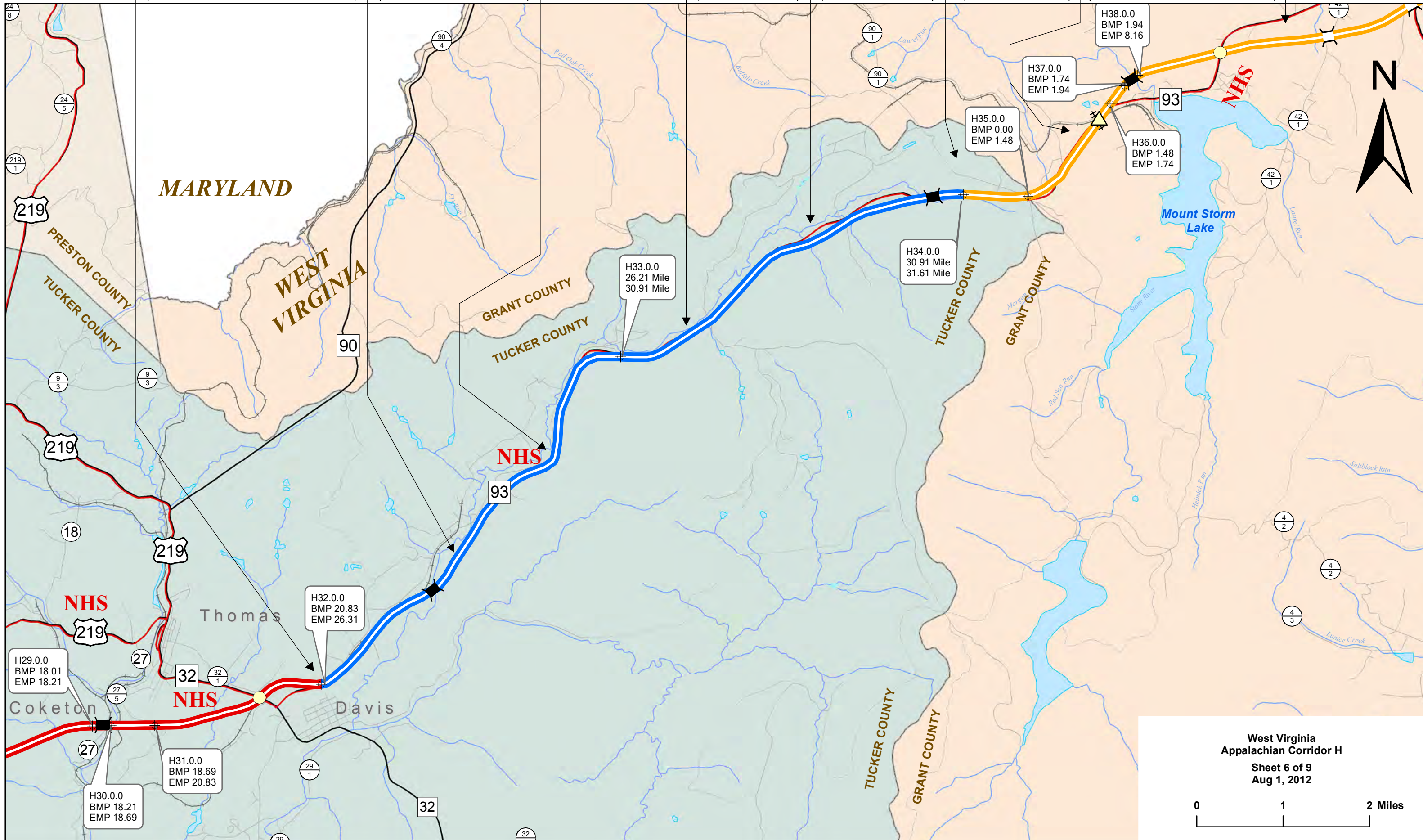
APD 484 (191) CE

ACAP 484 (246) C

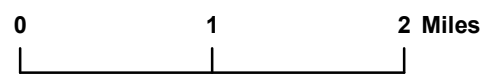
APD 484 (192) R

APD 484 (194) ER

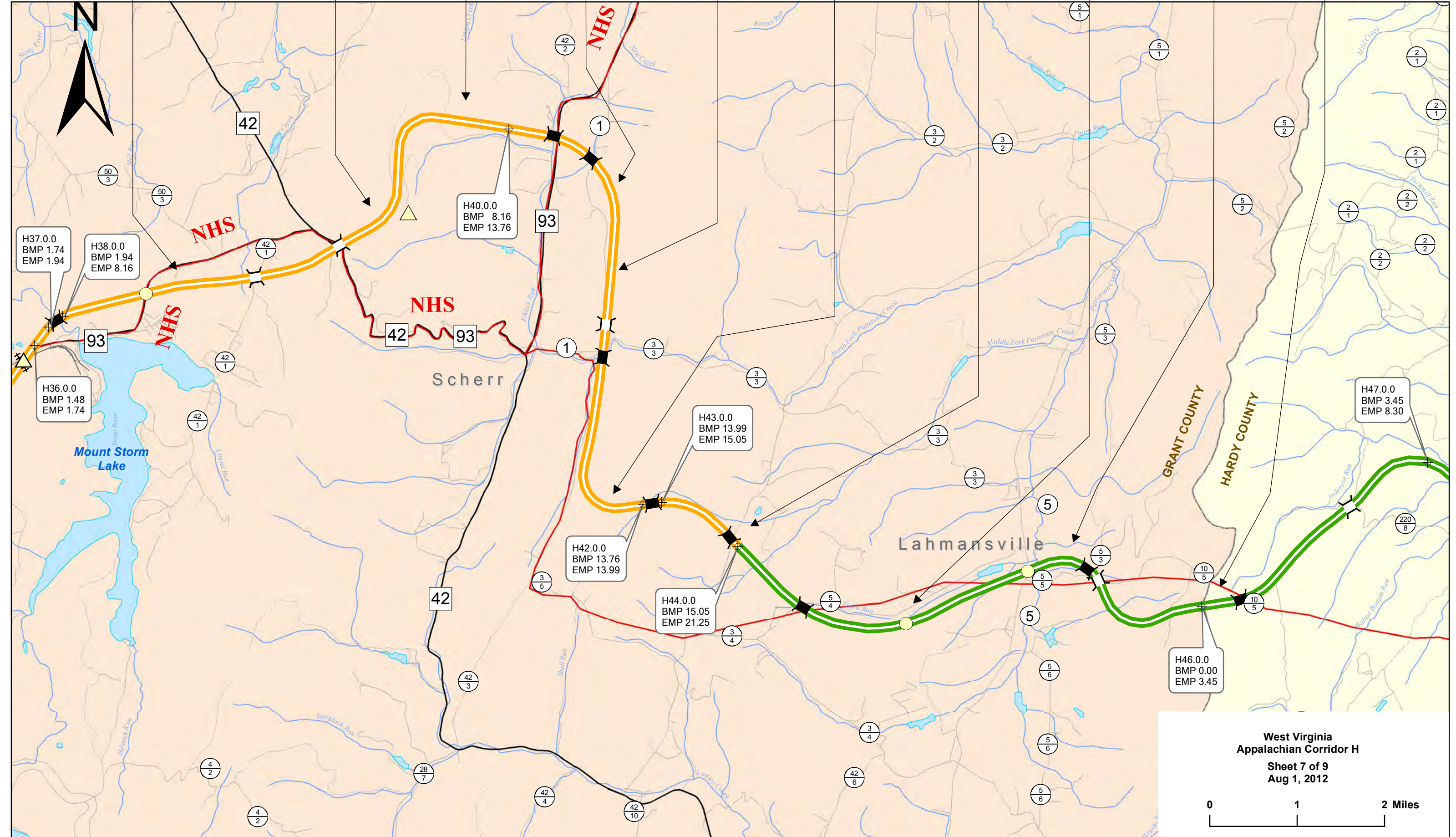
APD 484 (193) CE



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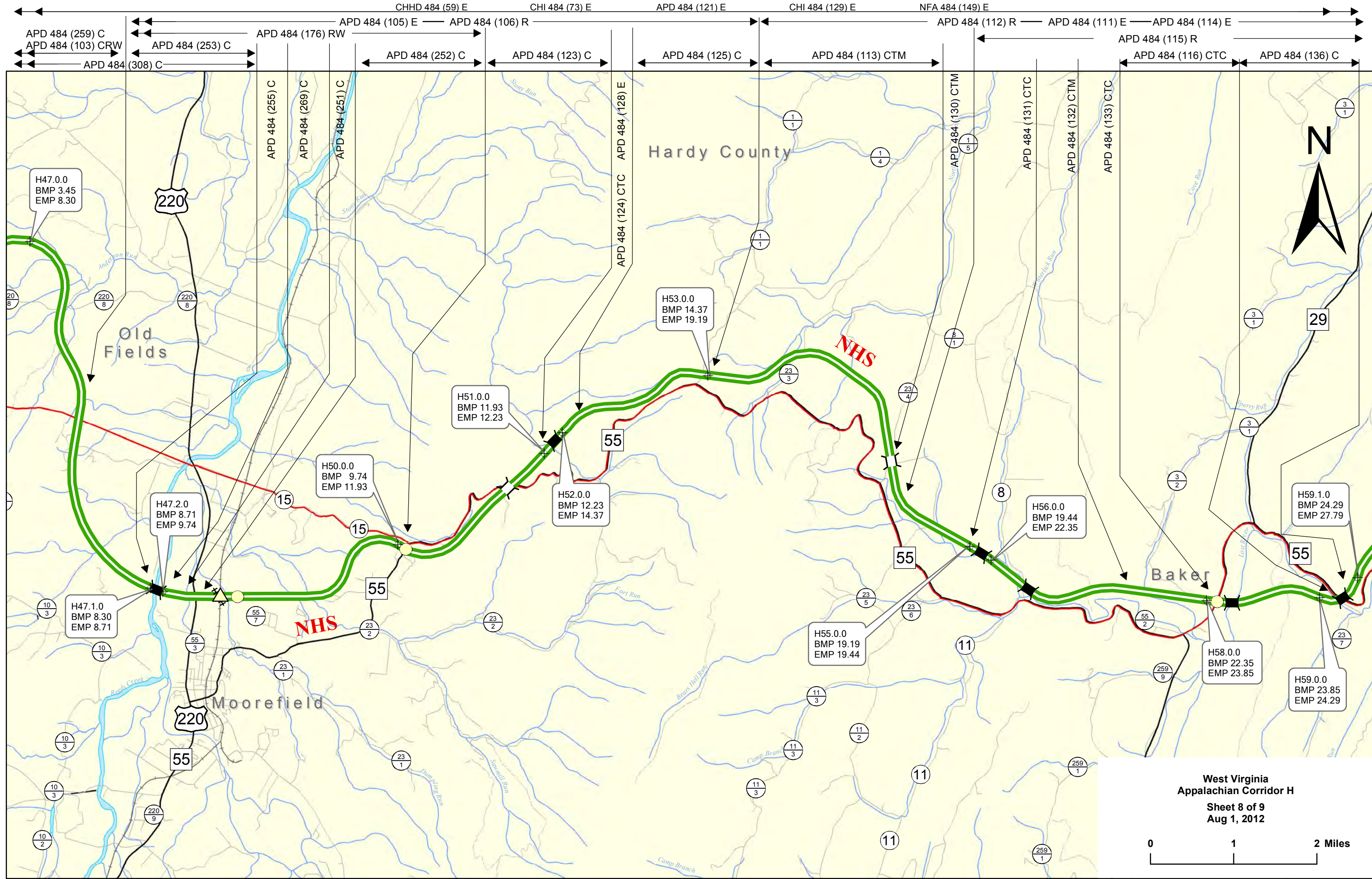


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ACAP 484 (246) C		ACAP 484 (299) C							



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0 1 2 Miles



CHHD 484 (59) E CHI 484 (73) E APD 484 (121) E CHI 484 (129) E NFA 484 (149) E
 APD 484 (259) C APD 484 (105) E APD 484 (106) R APD 484 (112) R APD 484 (111) E APD 484 (114) E
 APD 484 (103) CRW APD 484 (253) C APD 484 (176) RW APD 484 (123) C APD 484 (125) C APD 484 (113) CTM APD 484 (115) R
 APD 484 (308) C APD 484 (252) C APD 484 (124) CTC APD 484 (130) CTM APD 484 (131) CTC APD 484 (132) CTM APD 484 (133) CTC APD 484 (116) CTC APD 484 (136) C

H47.0.0
 BMP 3.45
 EMP 8.30

H47.1.0
 BMP 8.30
 EMP 8.71

H47.2.0
 BMP 8.71
 EMP 9.74

H50.0.0
 BMP 9.74
 EMP 11.93

H51.0.0
 BMP 11.93
 EMP 12.23

H52.0.0
 BMP 12.23
 EMP 14.37

H53.0.0
 BMP 14.37
 EMP 19.19

H55.0.0
 BMP 19.19
 EMP 19.44

H56.0.0
 BMP 19.44
 EMP 22.35

H58.0.0
 BMP 22.35
 EMP 23.85

H59.0.0
 BMP 23.85
 EMP 24.29

H59.1.0
 BMP 24.29
 EMP 27.79

**West Virginia
 Appalachian Corridor H**
 Sheet 8 of 9
 Aug 1, 2012

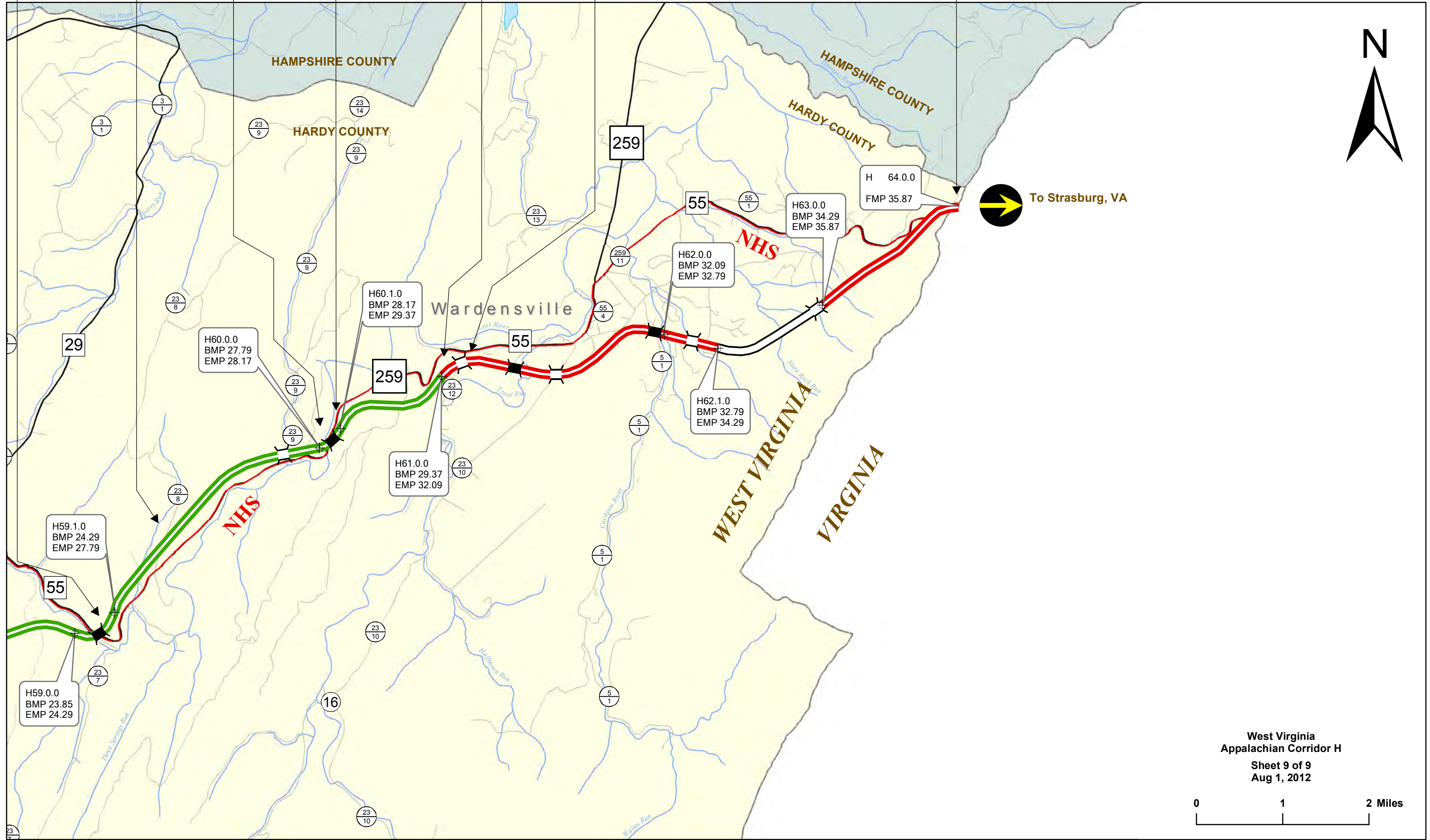
0 1 2 Miles

CHHD 484 (59) E CHI 484 (73) E APD 484 (121) E CHI 484 (129) E NFA 484 (149) E

APD 484 (114) E APD 484 (115) R NFA 484 (197) E

APD 484 (211) C

APD 484 (135) CTC APD 484 (211) C APD 484 (212) C APD 484 (139) C APD 484 (249) C



West Virginia
Appalachian Corridor H
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Aug 1, 2012



2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: L

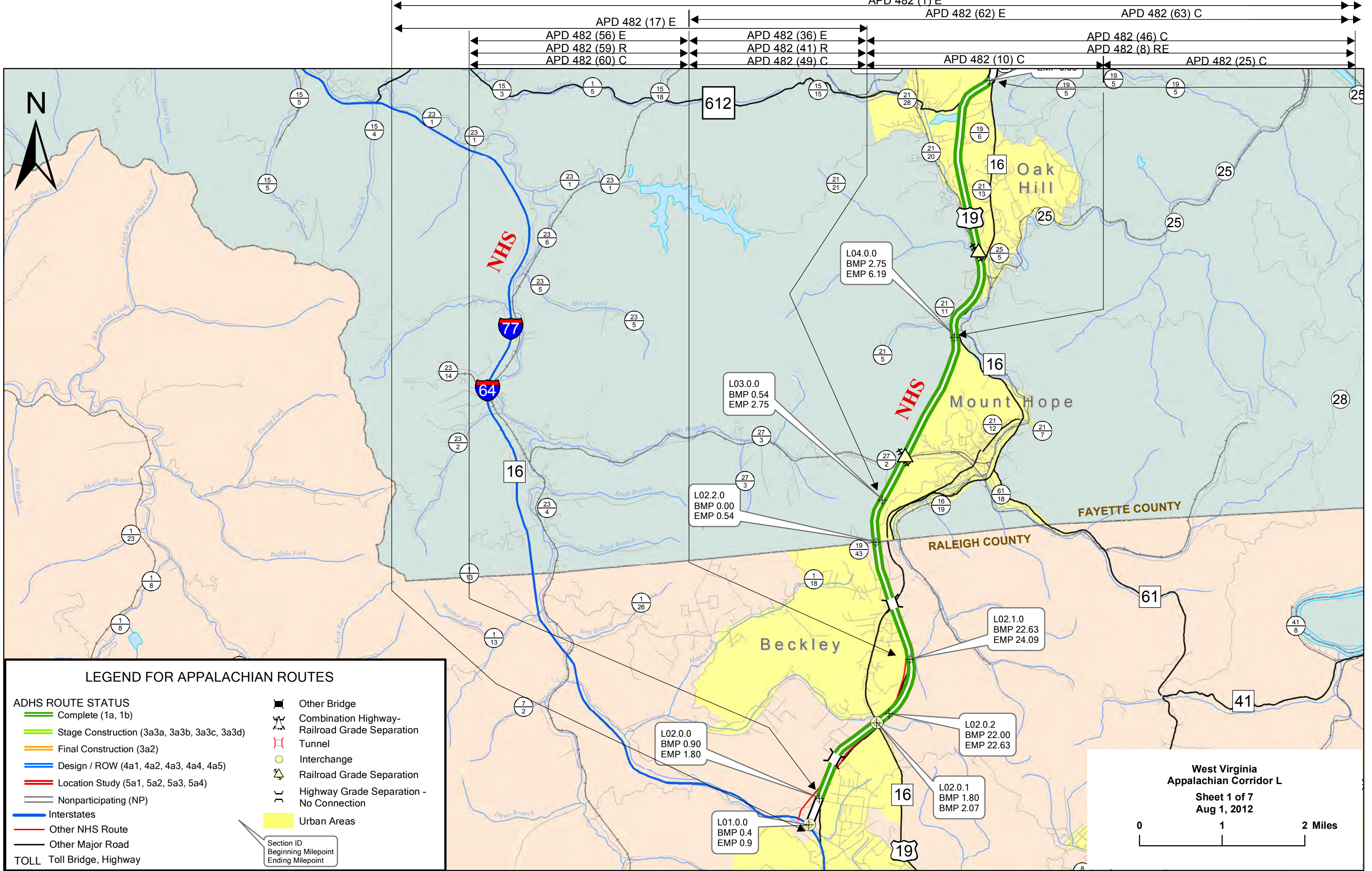
Section ID	L21.0.0
LRS Milepoint: Beginning/Ending	7.060/7.450
Status	NP
1. Finance Code	20
2. Section Length(Miles)	0.4
3. Class/Urban Code	R/0
4. Location:	
---- a. FIPS State/County/Congressional	54/007/02
---- b. HPMS Route/Subroute	0000000019/00
---- c. HPMS Signed Route/Strip Map #	2000000019/L5
5. Estimate Section/NHS Designation	2/NHS
6. Design Speed(mph)	60
7. Traffic:	
---- a. ADT-Base Year (2010)	10,400
---- b. ADT-Year 2020	13,300
---- c. Design Year	2,020
---- d. ADT-Design Year	21,300
---- e. DHV-Design Year	2,130
---- f. % Truck Design Year(DHV)	12
---- g. % Truck Design Year(ADT)	20
---- h. Directional Distribution Factor	55
8. Number of Lanes to be Constructed this Estimate	0
9. Ultimate Number of Through Traffic Lanes	4
10. Typical X-Section of Reference/Access Control	8B/Full
11. Right-of-Way Width(ft), prevailing	400
12. Median Width(ft), prevailing	40
13. Status of Development(Figure 4)	np
Estimated Cost(\$1,000) per Work Classification	
14. Preliminary Engineering:	
---- a. Location	0
---- b. Design	0
15. Right-of-Way:	
---- a. Acquisition	0
---- b. Relocation	0
16. Utility Adjustments	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0
18. Subbase, Base, Surfacing, Shoulders	0
19. Railroad Grade Separations	0
20. Highway Grade Separations without Ramps	0
21. Interchanges	0
22. Other Bridges, Tunnels, and Walls	0
23. Traffic Control	0
24. Environmental Mitigation	0
25. Roadside Improvements:	
---- a. Landscape Planting	0
---- b. Rest Area, Overlooks	0
26. All Other Items	0
27. Subtotal(lines 17 thru 26)	0
28. Construction Engineering(8.00000000% of line 27)	0
29. Total Cost of Construction(lines 27 & 28)	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: L

Section ID LRS Milepoint	Corridor Total	Rural Subtotal	Urban Subtotal
1. Finance Code 2. Section Length(Miles) 3. Class/Urban Code 4. Location: ---- a. FIPS State/County/Congressional ---- b. HPMS Route/Subroute ---- c. HPMS Signed Route/Strip Map # 5. Estimate Section/NHS Designation 6. Design Speed(mph) 7. Traffic: ---- a. ADT-Base Year (2010) ---- b. ADT-Year 2020 ---- c. Design Year ---- d. ADT-Design Year ---- e. DHV-Design Year ---- f. % Truck Design Year(DHV) ---- g. % Truck Design Year(ADT) ---- h. Directional Distribution Factor 8. Number of Lanes to be Constructed this Estimate 9. Ultimate Number of Through Traffic Lanes 10. Typical X-Section of Reference/Access Control 11. Right-of-Way Width(ft), prevailing 12. Median Width(ft), prevailing 13. Status of Development(Figure 4)	69.90	64.50	5.40
Estimated Cost(\$1,000) per Work Classification			
14. Preliminary Engineering: ---- a. Location ---- b. Design 15. Right-of-Way: ---- a. Acquisition ---- b. Relocation 16. Utility Adjustments			
17. Erosion Control/Clear/Grade/Drain/Minor Structure 18. Subbase, Base, Surfacing, Shoulders 19. Railroad Grade Separations 20. Highway Grade Separations without Ramps 21. Interchanges 22. Other Bridges, Tunnels, and Walls 23. Traffic Control 24. Environmental Mitigation 25. Roadside Improvements: ---- a. Landscape Planting ---- b. Rest Area, Overlooks 26. All Other Items			
27. Subtotal(lines 17 thru 26)			
28. Construction Engineering(8.00000000% of line 27)			
29. Total Cost of Construction(lines 27 & 28)			
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			



APD 482 (1) E
 APD 482 (62) E
 APD 482 (63) C
 APD 482 (56) E
 APD 482 (36) E
 APD 482 (46) C
 APD 482 (59) R
 APD 482 (41) R
 APD 482 (8) RE
 APD 482 (60) C
 APD 482 (49) C
 APD 482 (10) C
 APD 482 (25) C



LEGEND FOR APPALACHIAN ROUTES

ADHS ROUTE STATUS		Other Bridge
	Complete (1a, 1b)	Combination Highway-Railroad Grade Separation
	Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)	Tunnel
	Final Construction (3a2)	Interchange
	Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)	Railroad Grade Separation
	Location Study (5a1, 5a2, 5a3, 5a4)	Highway Grade Separation - No Connection
	Nonparticipating (NP)	Urban Areas
	Interstates	Section ID Beginning Milepoint Ending Milepoint
	Other NHS Route	
	Other Major Road	
	TOLL Toll Bridge, Highway	

**West Virginia
 Appalachian Corridor L**
 Sheet 1 of 7
 Aug 1, 2012

L04.0.0
 BMP 2.75
 EMP 6.19

L03.0.0
 BMP 0.54
 EMP 2.75

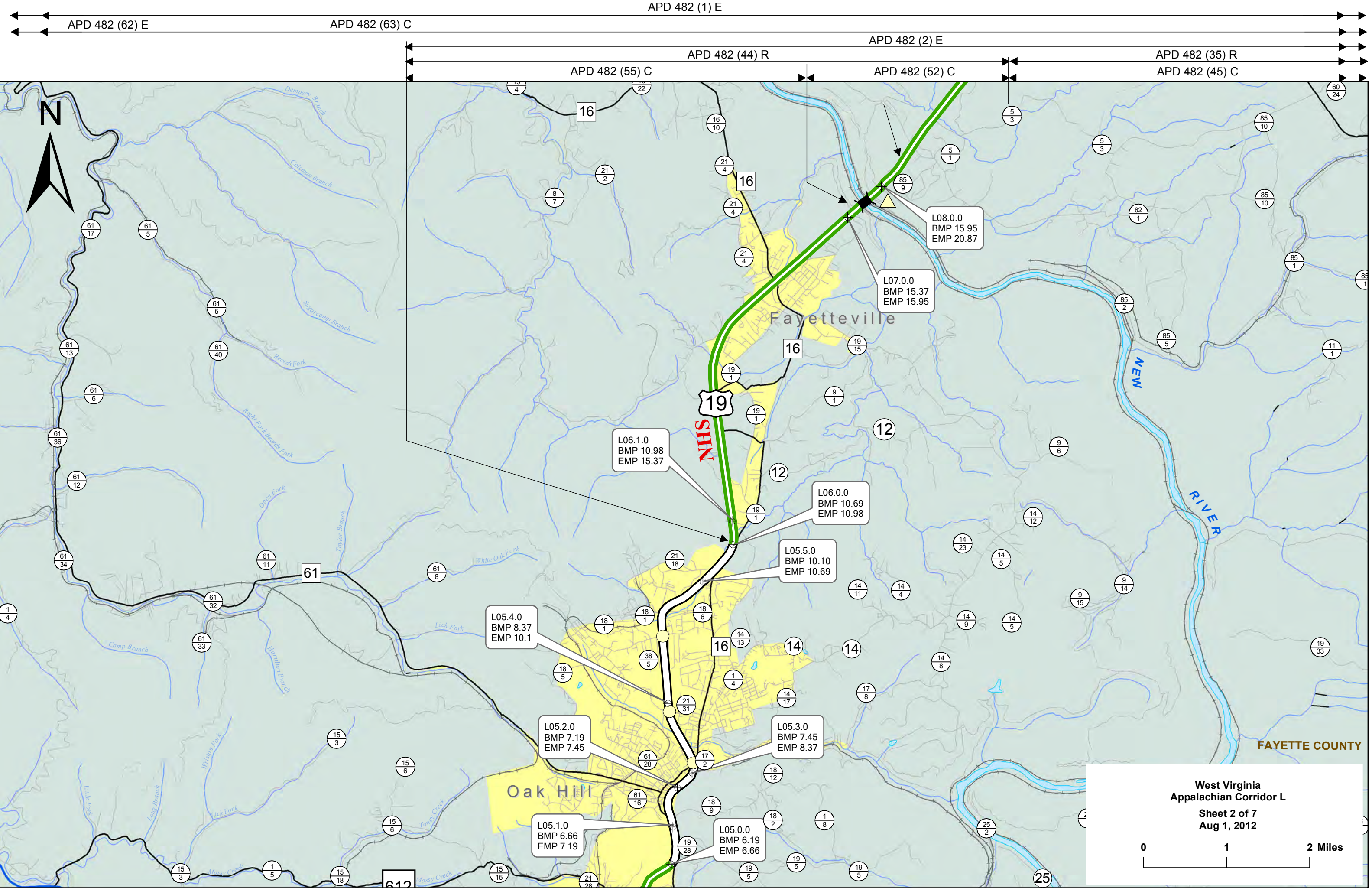
L02.2.0
 BMP 0.00
 EMP 0.54

L02.1.0
 BMP 22.63
 EMP 24.09

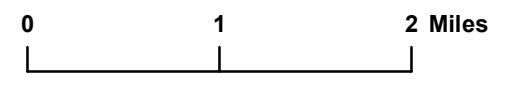
L02.0.2
 BMP 22.00
 EMP 22.63

L02.0.1
 BMP 1.80
 EMP 2.07

L01.0.0
 BMP 0.4
 EMP 0.9



West Virginia
 Appalachian Corridor L
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 Aug 1, 2012



APD 482 (62) E

APD 482 (63) C

APD 482 (1) E

APD 482 (2) E

APD 482 (35) R

APD 482 (45) C

APD 482 (55) C

APD 482 (44) R

APD 482 (52) C

NHS
 19

Fayetteville

Oak Hill

FAYETTE COUNTY

L06.1.0
 BMP 10.98
 EMP 15.37

L08.0.0
 BMP 15.95
 EMP 20.87

L07.0.0
 BMP 15.37
 EMP 15.95

L06.0.0
 BMP 10.69
 EMP 10.98

L05.5.0
 BMP 10.10
 EMP 10.69

L05.4.0
 BMP 8.37
 EMP 10.1

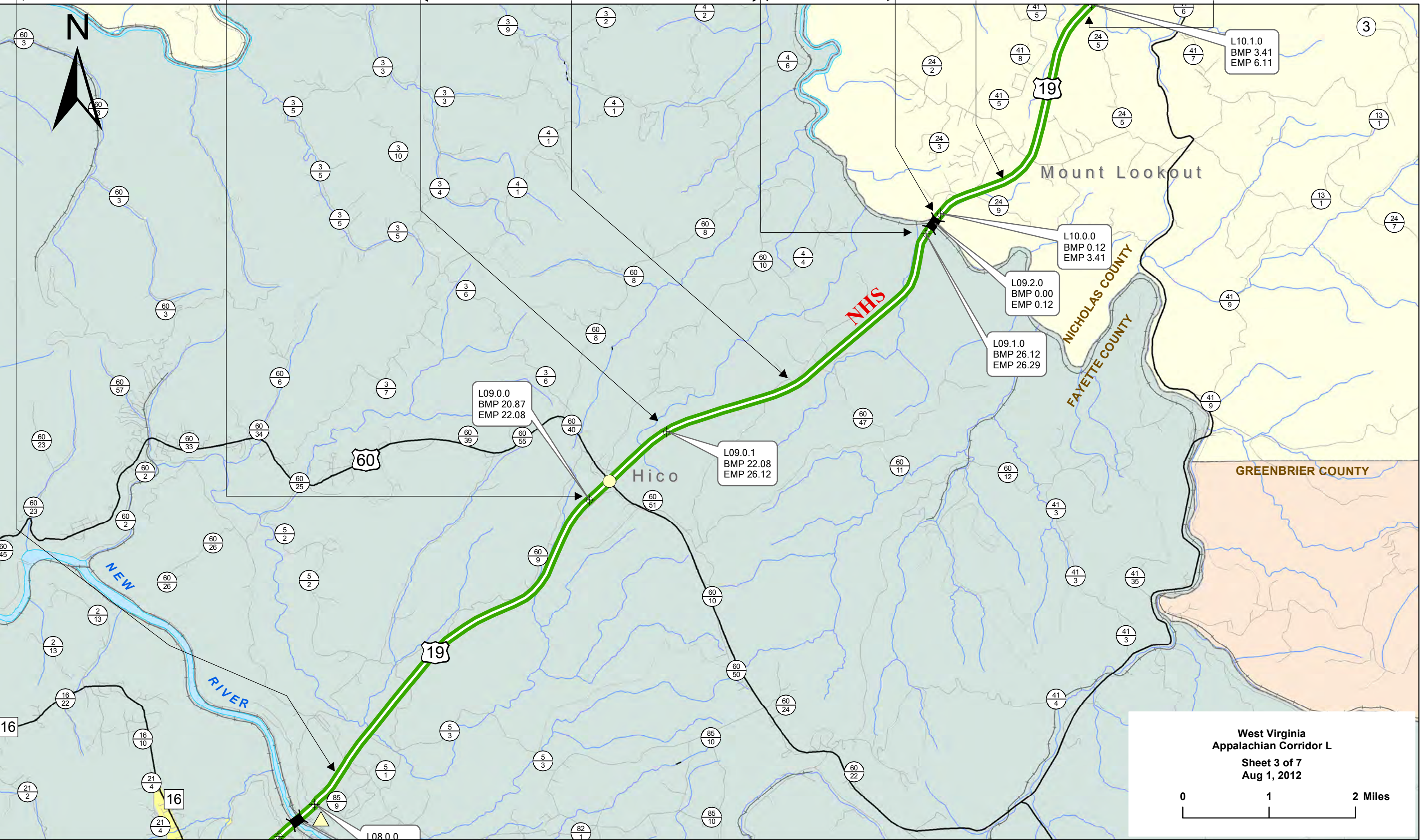
L05.2.0
 BMP 7.19
 EMP 7.45

L05.3.0
 BMP 7.45
 EMP 8.37

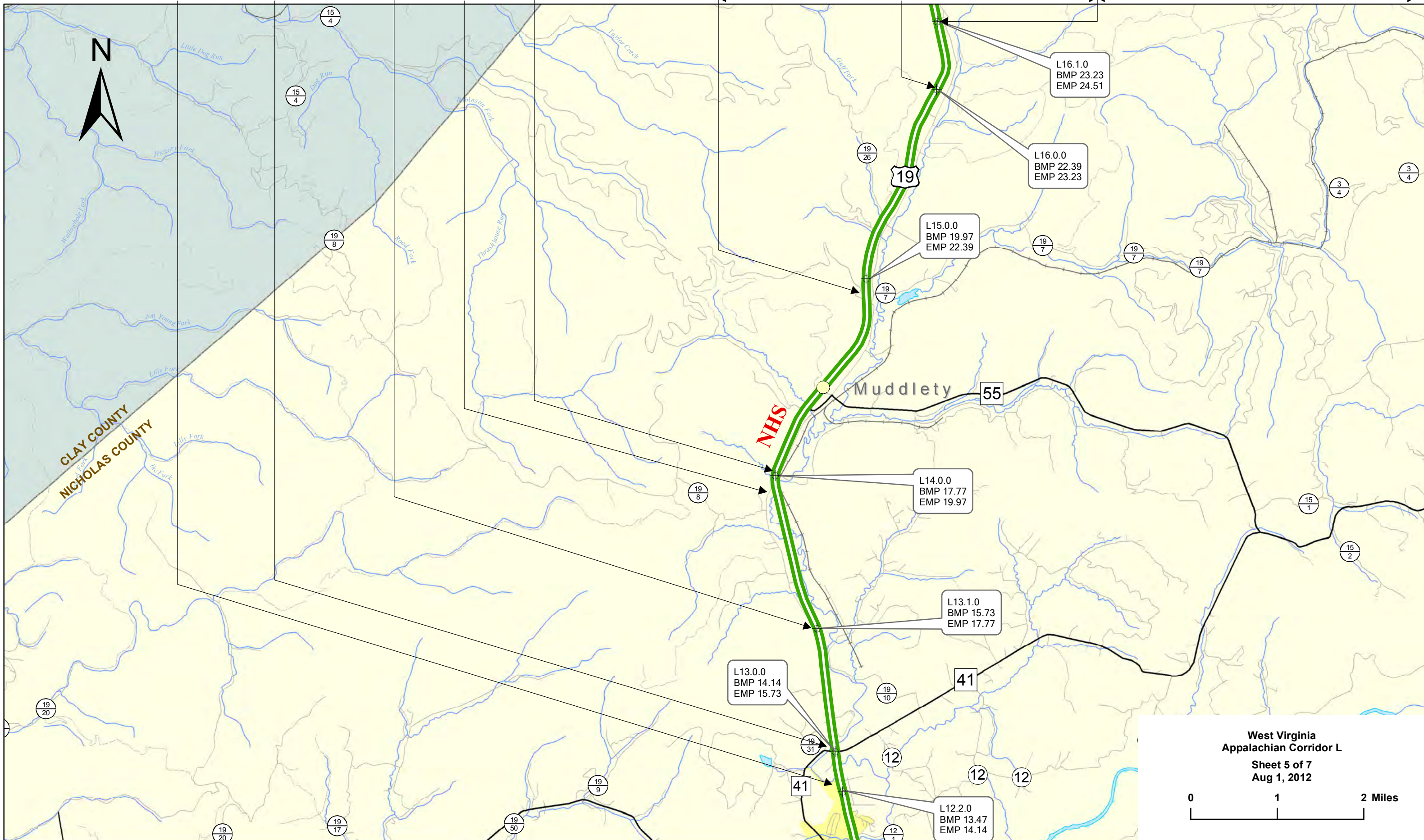
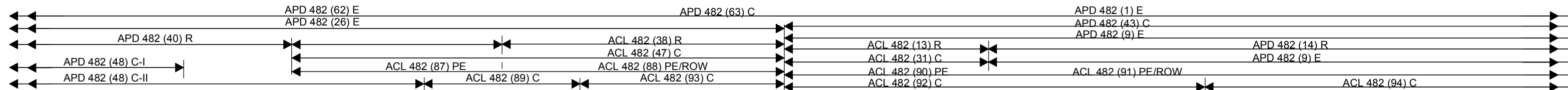
L05.1.0
 BMP 6.66
 EMP 7.19

L05.0.0
 BMP 6.19
 EMP 6.66

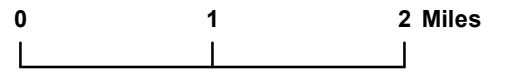
APD 482 (1) E APD 482 (62) E APD 482 (63) C
 APD 482 (2) E APD 482 (3) E APD 482 (50) C
 APD 482 (18) R APD 482 (19) R APD 482 (20) R
 APD 482 (27) C APD 482 (28) C APD 482 (29) C
 APD 482 (35) R APD 482 (68) C APD 482 (69) C APD 482 (70) C
 APD 482 (45) C

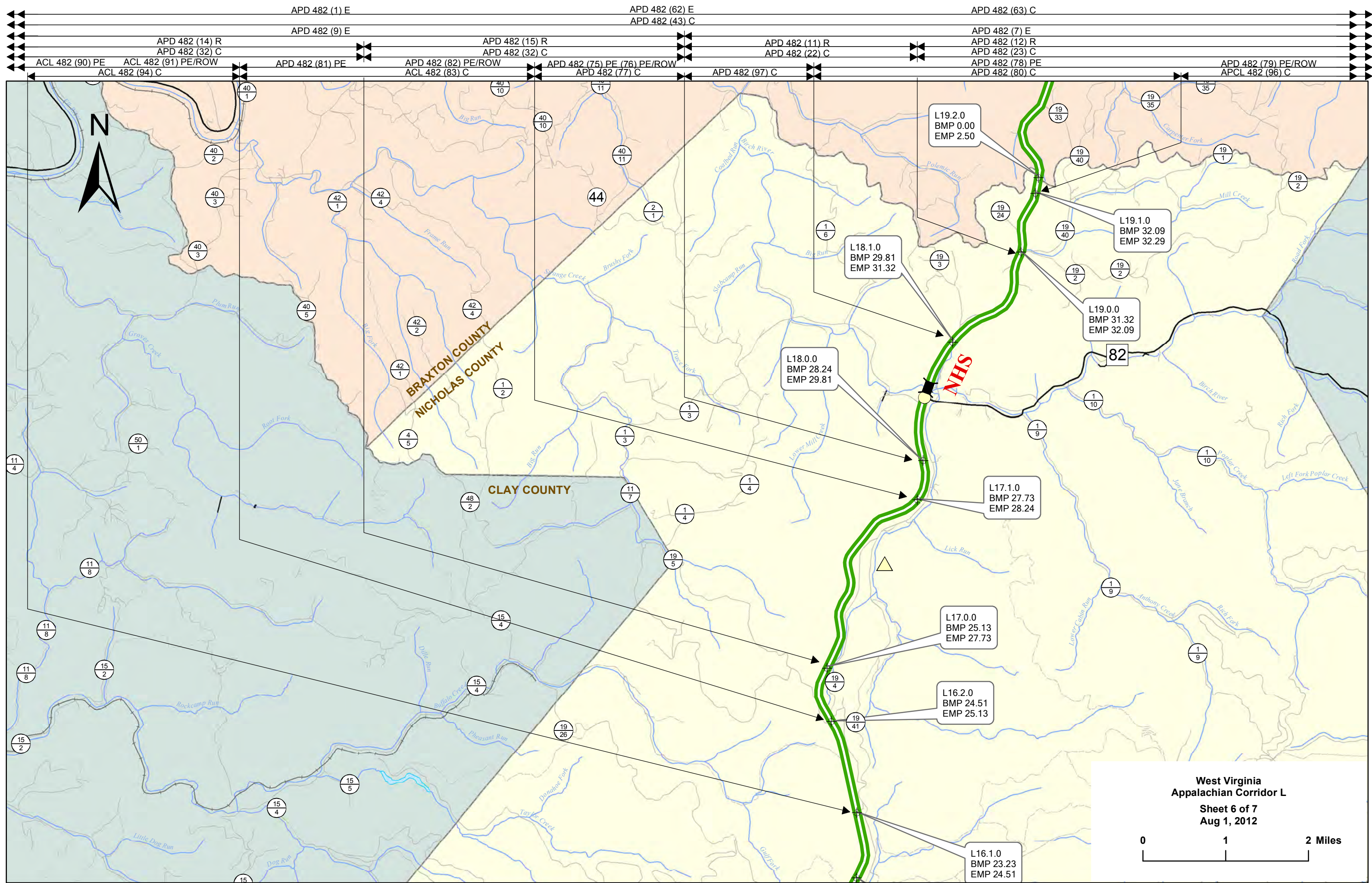


**West Virginia
 Appalachian Corridor L**
 Sheet 3 of 7
 Aug 1, 2012
 0 1 2 Miles



West Virginia
Appalachian Corridor L
Sheet 5 of 7
Aug 1, 2012





APD 482 (1) E
 APD 482 (14) R
 APD 482 (32) C
 ACL 482 (90) PE
 ACL 482 (91) PE/ROW
 ACL 482 (94) C
 APD 482 (9) E
 APD 482 (81) PE
 APD 482 (15) R
 APD 482 (32) C
 APD 482 (82) PE/ROW
 ACL 482 (83) C
 APD 482 (62) E
 APD 482 (43) C
 APD 482 (75) PE (76) PE/ROW
 APD 482 (77) C
 APD 482 (11) R
 APD 482 (22) C
 APD 482 (97) C
 APD 482 (7) E
 APD 482 (12) R
 APD 482 (23) C
 APD 482 (78) PE
 APD 482 (80) C
 APD 482 (63) C
 APD 482 (79) PE/ROW
 APCL 482 (96) C



L19.2.0
BMP 0.00
EMP 2.50

L19.1.0
BMP 32.09
EMP 32.29

L18.1.0
BMP 29.81
EMP 31.32

L19.0.0
BMP 31.32
EMP 32.09

L18.0.0
BMP 28.24
EMP 29.81

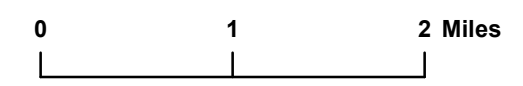
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BMP 27.73
EMP 28.24

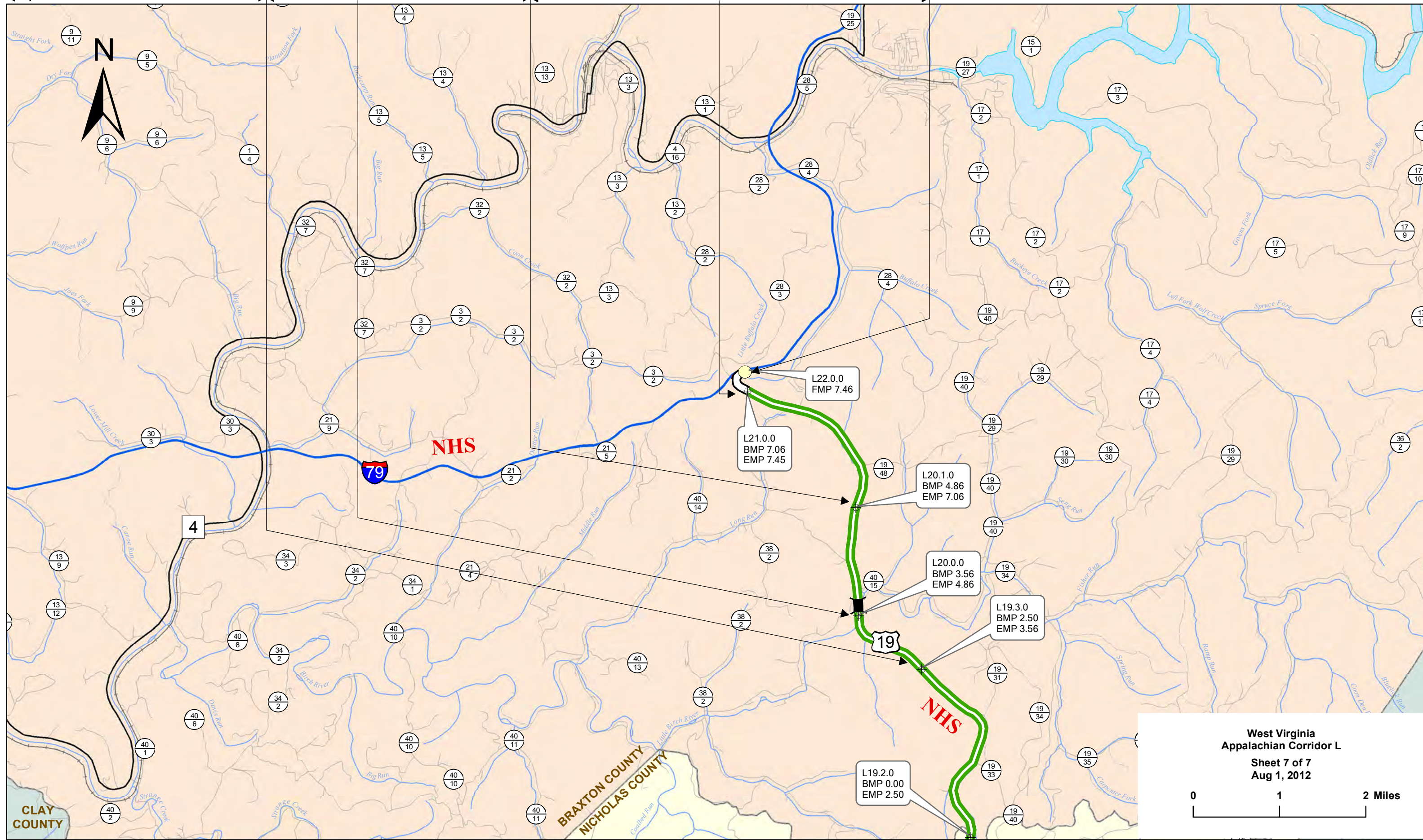
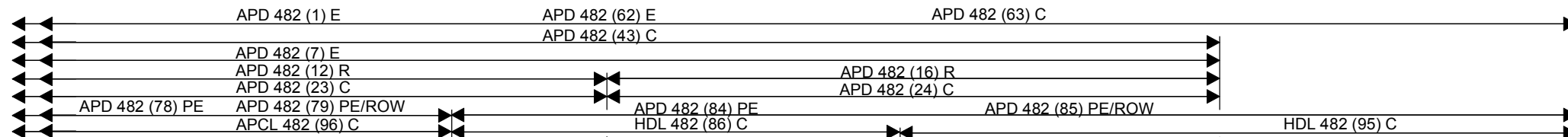
L17.0.0
BMP 25.13
EMP 27.73

L16.2.0
BMP 24.51
EMP 25.13

L16.1.0
BMP 23.23
EMP 24.51

West Virginia
Appalachian Corridor L
 Sheet 6 of 7
 Aug 1, 2012





- L22.0.0
FMP 7.46
- L21.0.0
BMP 7.06
EMP 7.45
- L20.1.0
BMP 4.86
EMP 7.06
- L20.0.0
BMP 3.56
EMP 4.86
- L19.3.0
BMP 2.50
EMP 3.56
- L19.2.0
BMP 0.00
EMP 2.50

2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: Q

Section ID	Q12.1.0
LRS Milepoint: Beginning/Ending	23.940/27.060
Status	Completed
1. Finance Code	20
2. Section Length(Miles)	3.1
3. Class/Urban Code	R/0
4. Location:	
---- a. FIPS State/County/Congressional	54/055/03
---- b. HPMS Route/Subroute	0000000460/00
---- c. HPMS Signed Route/Strip Map #	2000000460/Q2
5. Estimate Section/NHS Designation	1/NHS
6. Design Speed(mph)	60
7. Traffic:	
---- a. ADT-Base Year (2010)	9,500
---- b. ADT-Year 2020	12,600
---- c. Design Year	1,991
---- d. ADT-Design Year	9,700
---- e. DHV-Design Year	1,164
---- f. % Truck Design Year(DHV)	12
---- g. % Truck Design Year(ADT)	17
---- h. Directional Distribution Factor	60
8. Number of Lanes to be Constructed this Estimate	0
9. Ultimate Number of Through Traffic Lanes	4
10. Typical X-Section of Reference/Access Control	1/Partial
11. Right-of-Way Width(ft), prevailing	450
12. Median Width(ft), prevailing	40
13. Status of Development(Figure 4)	1a
Estimated Cost(\$1,000) per Work Classification	
14. Preliminary Engineering:	
---- a. Location	0
---- b. Design	0
15. Right-of-Way:	
---- a. Acquisition	0
---- b. Relocation	0
16. Utility Adjustments	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0
18. Subbase, Base, Surfacing, Shoulders	0
19. Railroad Grade Separations	0
20. Highway Grade Separations without Ramps	0
21. Interchanges	0
22. Other Bridges, Tunnels, and Walls	0
23. Traffic Control	0
24. Environmental Mitigation	0
25. Roadside Improvements:	
---- a. Landscape Planting	0
---- b. Rest Area, Overlooks	0
26. All Other Items	0
27. Subtotal(lines 17 thru 26)	0
28. Construction Engineering(8.00000000% of line 27)	0
29. Total Cost of Construction(lines 27 & 28)	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0

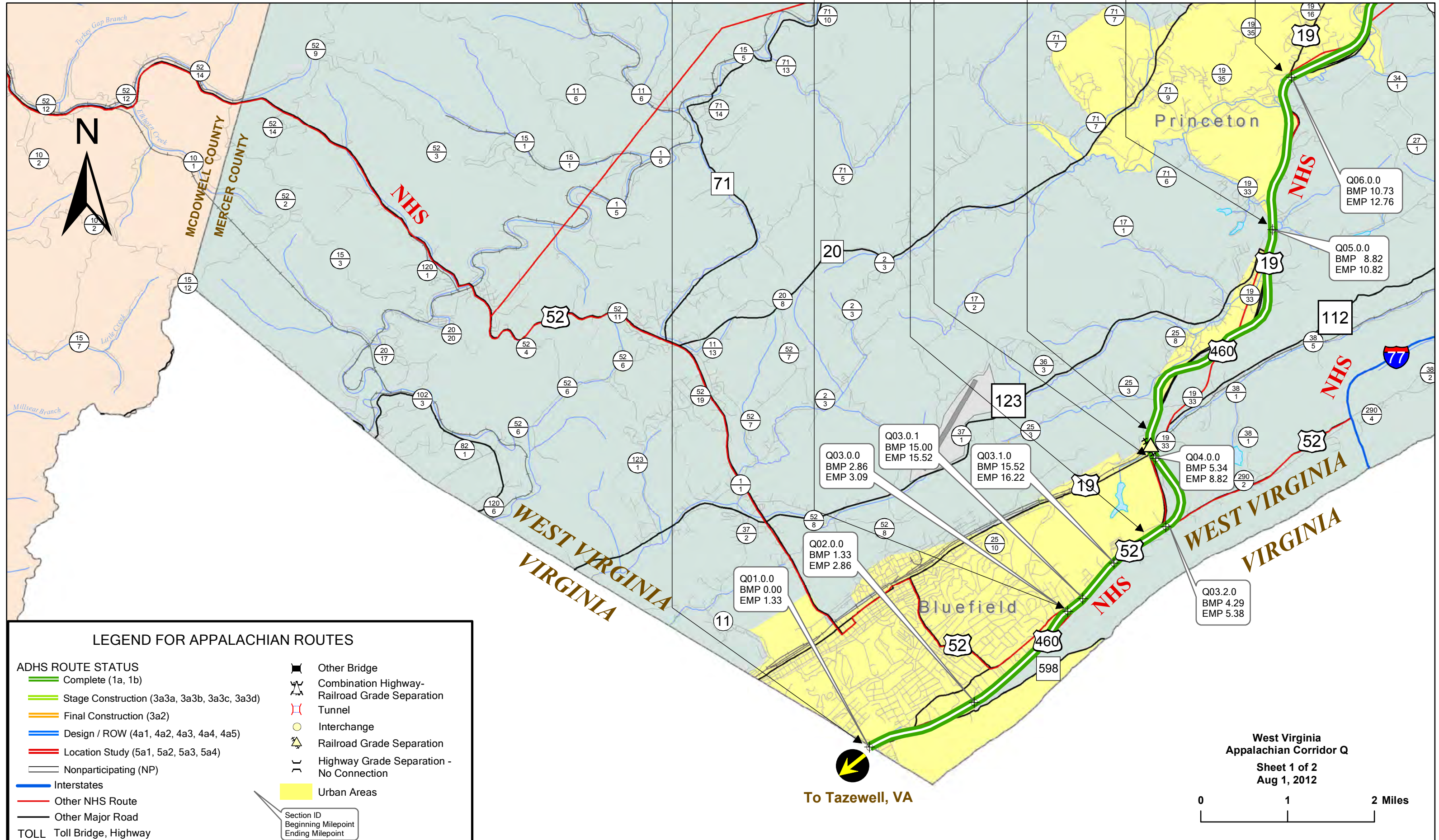
2012 Appalachian Development Highway System Cost Estimate
 Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: WV

ADHS Corridor: Q

Section ID	Corridor Total	Rural Subtotal	Urban Subtotal
LRS Milepoint 1. Finance Code 2. Section Length(Miles) 3. Class/Urban Code 4. Location: ---- a. FIPS State/County/Congressional ---- b. HPMS Route/Subroute ---- c. HPMS Signed Route/Strip Map # 5. Estimate Section/NHS Designation 6. Design Speed(mph) 7. Traffic: ---- a. ADT-Base Year (2010) ---- b. ADT-Year 2020 ---- c. Design Year ---- d. ADT-Design Year ---- e. DHV-Design Year ---- f. % Truck Design Year(DHV) ---- g. % Truck Design Year(ADT) ---- h. Directional Distribution Factor 8. Number of Lanes to be Constructed this Estimate 9. Ultimate Number of Through Traffic Lanes 10. Typical X-Section of Reference/Access Control 11. Right-of-Way Width(ft), prevailing 12. Median Width(ft), prevailing 13. Status of Development(Figure 4)	27.20	23.00	4.20
Estimated Cost(\$1,000) per Work Classification			
14. Preliminary Engineering: ---- a. Location ---- b. Design 15. Right-of-Way: ---- a. Acquisition ---- b. Relocation 16. Utility Adjustments			
17. Erosion Control/Clear/Grade/Drain/Minor Structure 18. Subbase, Base, Surfacing, Shoulders 19. Railroad Grade Separations 20. Highway Grade Separations without Ramps 21. Interchanges 22. Other Bridges, Tunnels, and Walls 23. Traffic Control 24. Environmental Mitigation 25. Roadside Improvements: ---- a. Landscape Planting ---- b. Rest Area, Overlooks 26. All Other Items			
27. Subtotal(lines 17 thru 26)			
28. Construction Engineering(8.00000000% of line 27)			
29. Total Cost of Construction(lines 27 & 28)			
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			

APD 200(40) C
 APD 200(24) E
 APD 200(30) R APD 200(34) R APD 200(28) R F 200(10) R
 APD 200(32) C APD 200(35) C APD 200(29) C-I APD 200(29) C-II APD 200(12) C
 APD 200 (42) E APD 200 (43) RC



LEGEND FOR APPALACHIAN ROUTES

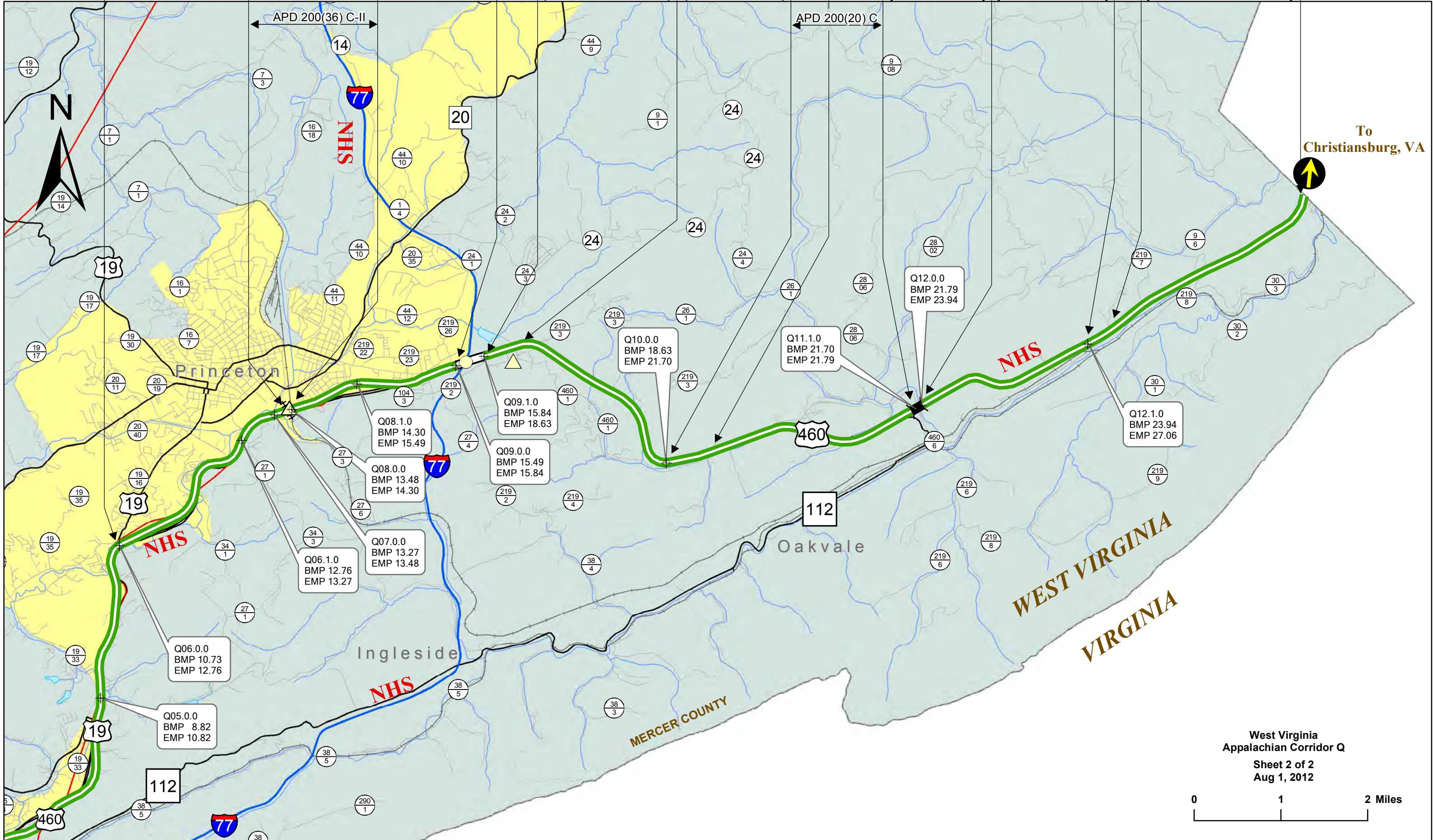
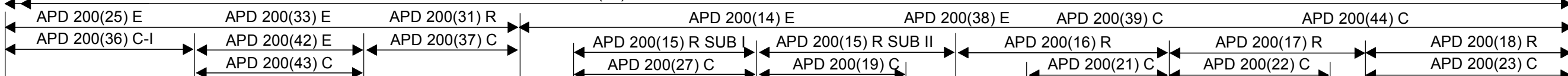
ADHS ROUTE STATUS		Other Bridge
Complete (1a, 1b)	Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)	Combination Highway-Railroad Grade Separation
Final Construction (3a2)	Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)	Tunnel
Location Study (5a1, 5a2, 5a3, 5a4)	Nonparticipating (NP)	Interchange
Interstates	Other NHS Route	Railroad Grade Separation
Other Major Road	Toll Bridge, Highway	Highway Grade Separation - No Connection
	Urban Areas	

Section ID
 Beginning Milepoint
 Ending Milepoint

West Virginia
 Appalachian Corridor Q
 Sheet 1 of 2
 Aug 1, 2012



To Tazewell, VA



To Christiansburg, VA



2012 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of West Virginia

Cost Estimates By Corridors and State Total

(Includes all eligible costs and associated mileages reported in Table B for Finance codes 21, 22, and 23)

ADHS Corridor		D		E		G	
Class: Rural or Urban		Rural	Urban	Rural	Urban	Rural	Urban
Length in miles		0.0	0.0	0.0	0.0	0.0	0.0
Total Mileage (Rural + Urban)		0.0		0.0		0.0	
Work Classification		Estimated Costs (\$1,000)					
14. Preliminary Engineering:	a. Location	0	0	0	0	0	0
	b. Design	0	0	0	0	0	0
15. Right-of-Way:	a. Acquisition	0	0	0	0	0	0
	b. Relocation	0	0	0	0	0	0
16. Utility Adjustments		0	0	0	0	0	0
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure		0	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders		0	0	0	0	0	0
19. Railroad Grade Separations		0	0	0	0	0	0
20. Highway Grade Separation without Ramps		0	0	0	0	0	0
21. Interchanges		0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls		0	0	0	0	0	0
23. Traffic Control		0	0	0	0	0	0
24. Environmental Mitigation		0	0	0	0	0	0
25. Roadside Improvements:	a. Landscape Planting	0	0	0	0	0	0
	b. Rest Areas, Overlooks	0	0	0	0	0	0
26. All Other Items		0	0	0	0	0	0
27. Subtotal (Lines 17 through 26)		0	0	0	0	0	0
28. Construction E & C (8.00% of line 27)		0	0	0	0	0	0
29. Total Cost of Construction (lines 27 and 28)		0	0	0	0	0	0
30. Total Estimated Cost (lines 14, 15, 16, & 29)		0	0	0	0	0	0
31. Total Cost (Rural + Urban)		0		0		0	

2012 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of West Virginia

Cost Estimates By Corridors and State Total

(Includes all eligible costs and associated mileages reported in Table B for Finance codes 21, 22, and 23)

ADHS Corridor	H		L		Q	
Class: Rural or Urban	Rural	Urban	Rural	Urban	Rural	Urban
Length in miles	41.9	0.0	0.0	0.0	0.0	0.0
Total Mileage (Rural + Urban)	41.9		0.0		0.0	
Work Classification	Estimated Costs (\$1,000)					
14. Preliminary Engineering: a. Location	0	0	0	0	0	0
b. Design	17,602	0	0	0	0	0
15. Right-of-Way: a. Acquisition	14,708	0	0	0	0	0
b. Relocation	0	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0	0
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure	21,100	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	21,825	0	0	0	0	0
19. Railroad Grade Separations	0	0	0	0	0	0
20. Highway Grade Separation without Ramps	1,505	0	0	0	0	0
21. Interchanges	38,920	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	809	0	0	0	0	0
23. Traffic Control	3,007	0	0	0	0	0
24. Environmental Mitigation	380	0	0	0	0	0
25. Roadside Improvements: a. Landscape Planting	0	0	0	0	0	0
b. Rest Areas, Overlooks	0	0	0	0	0	0
26. All Other Items	596,891	0	0	0	0	0
27. Subtotal (Lines 17 through 26)	684,437	0	0	0	0	0
28. Construction E & C (8.00% of line 27)	54,755	0	0	0	0	0
29. Total Cost of Construction (lines 27 and 28)	739,192	0	0	0	0	0
30. Total Estimated Cost (lines 14, 15, 16, & 29)	810,077	0	0	0	0	0
31. Total Cost (Rural + Urban)	810,077		0		0	

TABLE DPrefinanced (AC-APD) Projects, Bond Issue Projects, and Advanced Right-of-Way Projects
(Projects Completed or in Authorized Status as of Sept 30, 2011)

State/Commonwealth of West Virginia

Page 1 of 1

Appalachian Corridor	Estimate Section (Milepost)	Project Number	Work Class	Rural or Urban	APD Funds	State Funds	Total Cost (\$1,000)
H	H33.0.0, H35.0.0, H36.0.0, H37.0.0, H38.0.0	APD-0484(246)	Construction	Rural	8,689,215	2,172,303	10,861,520
H	H38.0.0, H40.0.0, H42.0.0, H43.0.0	APD-0484(299)	Construction	Rural	7,421,965	1,855,491	9,277,456
		Totals			16,111,180	4,027,794	20,138,974

TABLE E

Federal Funds Earmarked for the ADHS and Not Obligated by Sept 30, 2011

Page 1 of 1

State/Commonwealth of West Virginia

Name of the Act	Section in the Act	ADHS Corridor	FHWA Approp. Code	Description of the Project	Total Amount of Federal Funds Authorized	Remaining Amount of Federal Funds not obligated
FY 2002 Appropriation	107-0087	D	54F	WV APD Corridor D	30000000	480000
FY 2006 Appropriation	102-0240 1069	H	54N	WV APD Corridors (D or H)	19800000	52400