



NORTH CAROLINA



2012 ESTIMATE
OF THE COST TO COMPLETE
THE APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM
IN THE STATE OF NORTH CAROLINA

May 2012
(Data as of September 30, 2011)

Prepared by the North Carolina 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 North Carolina as of September 30, 2011 was prepared in accordance with the
2012 ADHS Cost Estimate Guidelines and Software Instruction Manual by the
North Carolina Department of Transportation in cooperation with the
Federal Highway Administration and the Appalachian Regional Commission.

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



Gene Conti
Secretary of Transportation
North Carolina Department of
Transportation



John F. Sullivan, III
Division Administrator
Federal Highway Administration

NORTH CAROLINA PORTION OF APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM

STATE OF NORTH CAROLINA

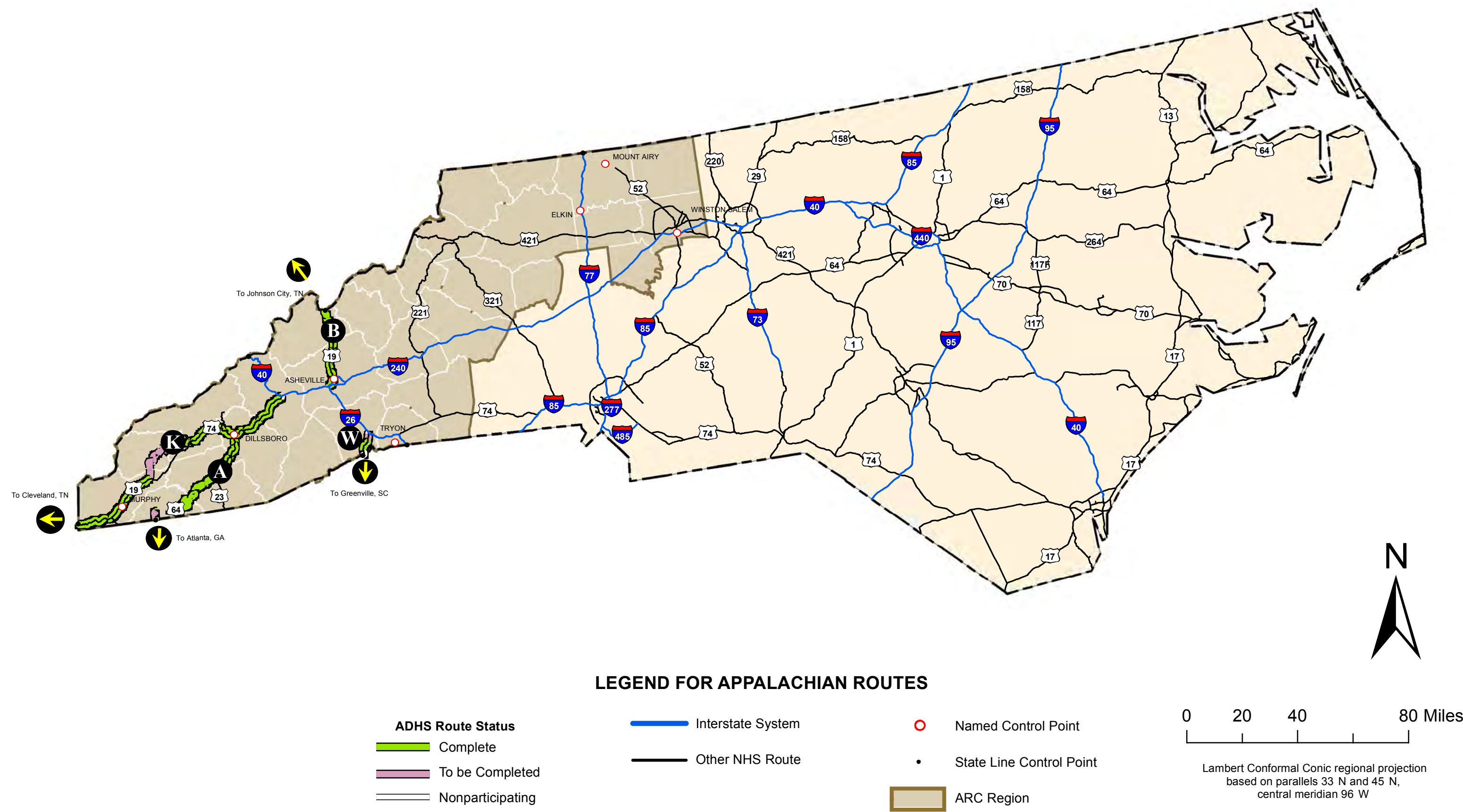
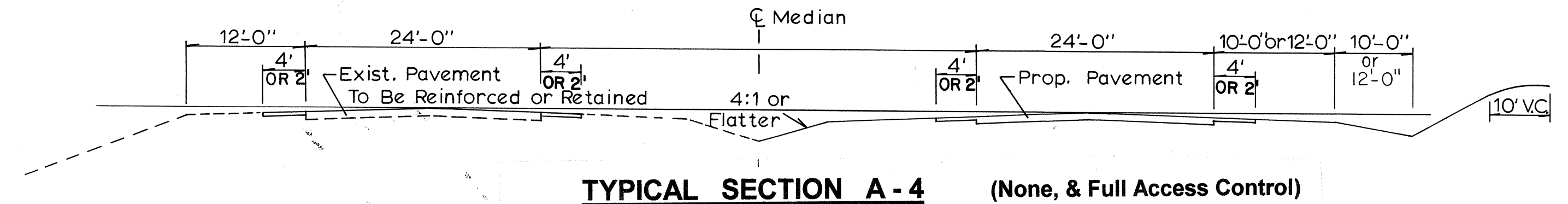
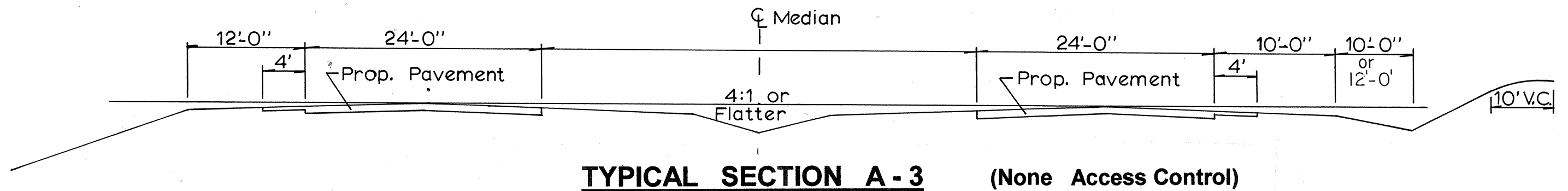
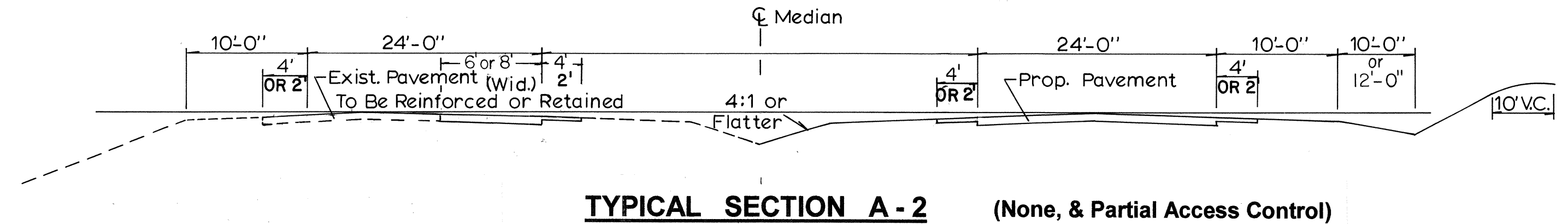
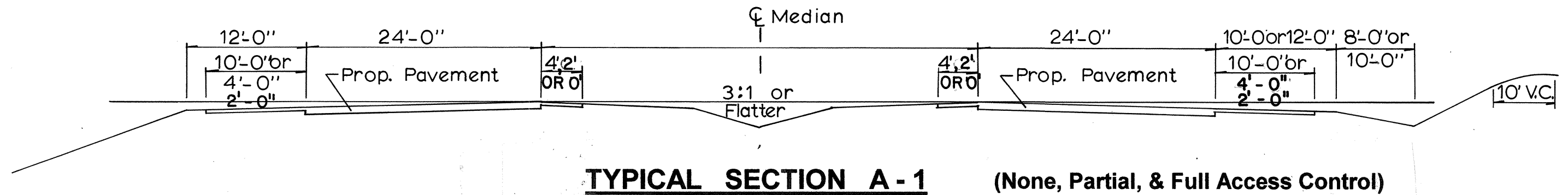


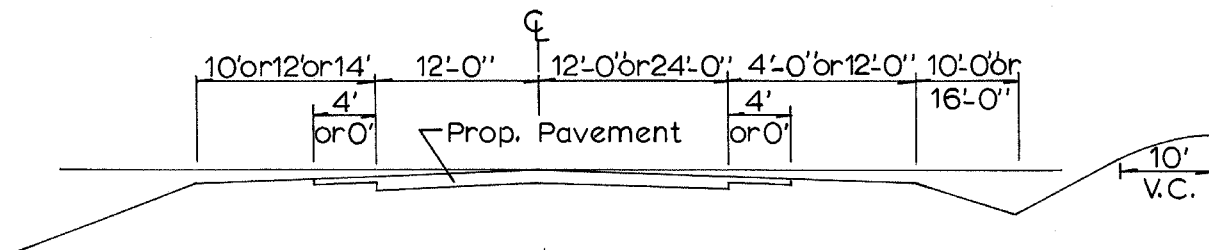
TABLE A

Appalachian Corridor Segment Descriptions

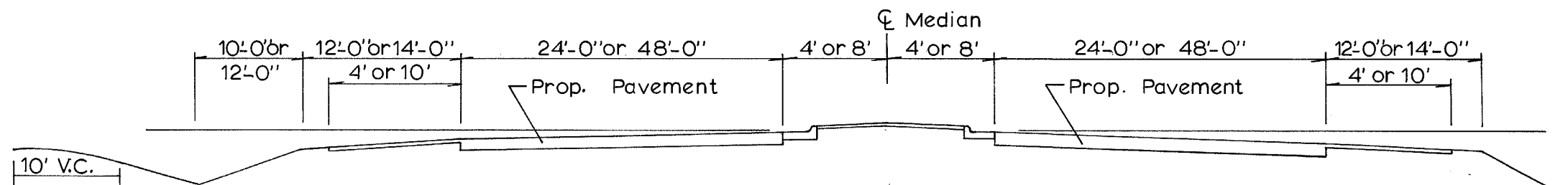
State/Commonwealth of North Carolina

Corridor Letter	Principal Existing Route Numbers	Segment Descriptions	Eligible (miles)	Ineligible (miles)
A	US 64, US 23	GEORGIA STATE LINE TO CLYDE	81.9	
A	US 64, US 23	CLYDE TO I-40		0.8
B	US 23	I-40 TO TENNESSEE STATE LINE	31	0.4
K	US 19	TENNESSEE STATE LINE TO DILLSBORO	83.9	
W	US 25	SOUTH CAROLINA STATE LINE TO I-26	7.5	1.5
		Total	204.3	2.7

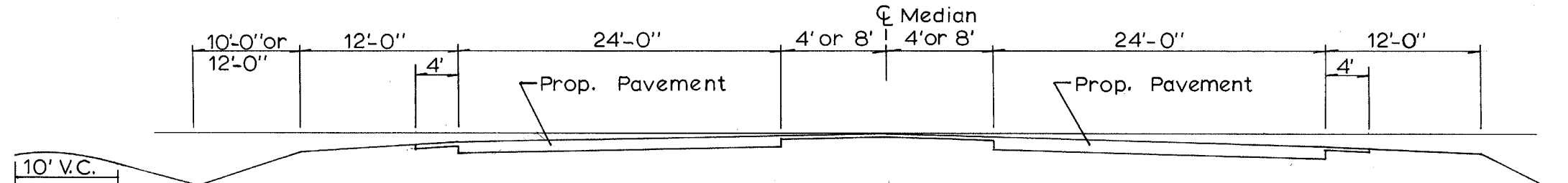




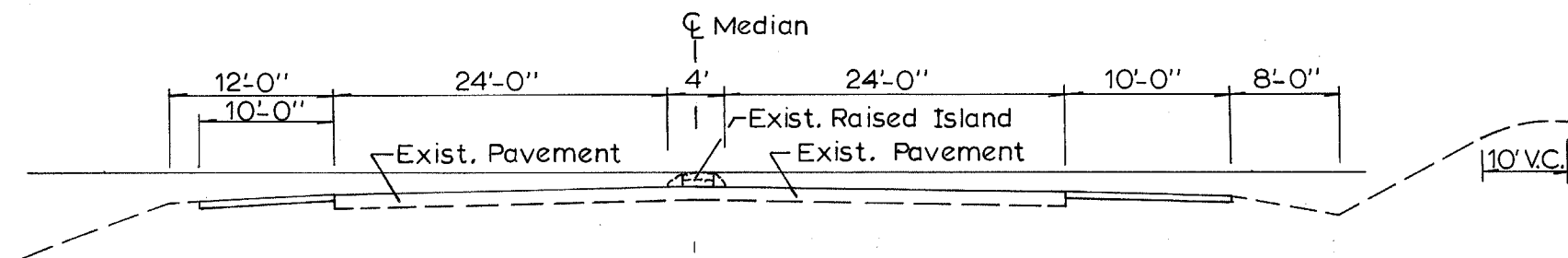
TYPICAL SECTION A - 5 (None, & Partial Access Control)



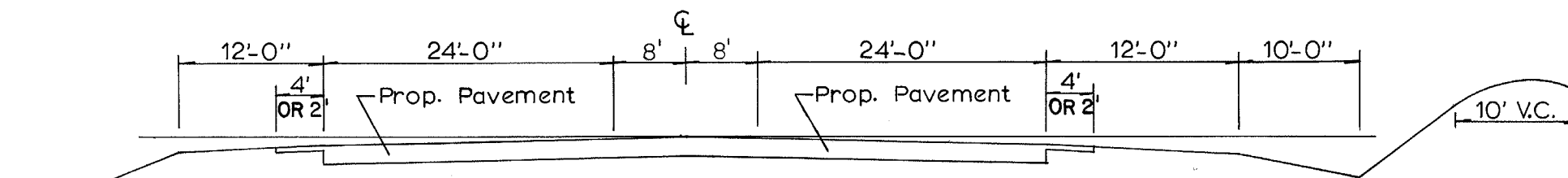
TYPICAL SECTION A - 6 (None, Partial, & Full Access Control)



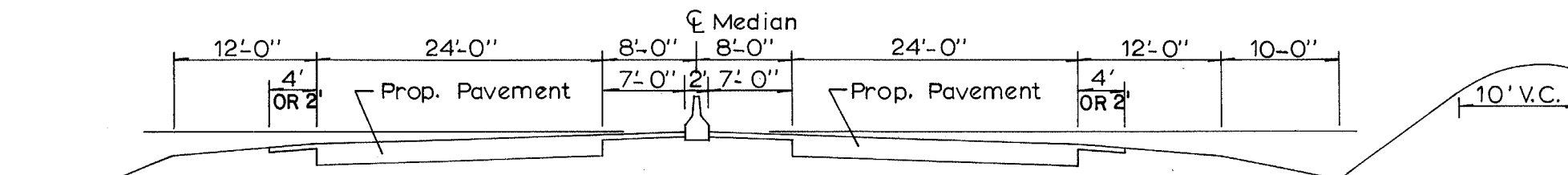
TYPICAL SECTION A - 7 (Full Access Control)



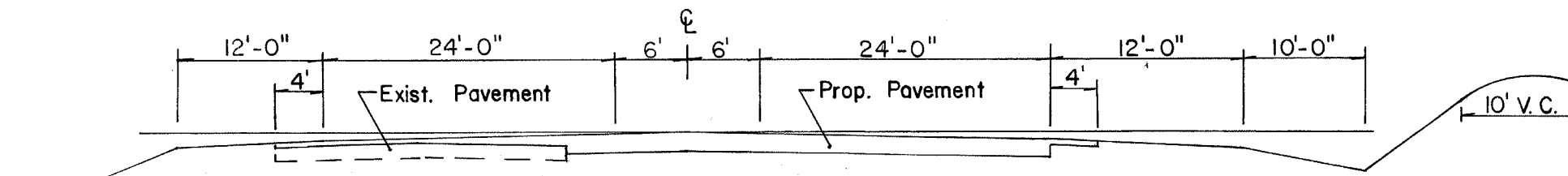
TYPICAL SECTION A - 8 (Full Access Control)



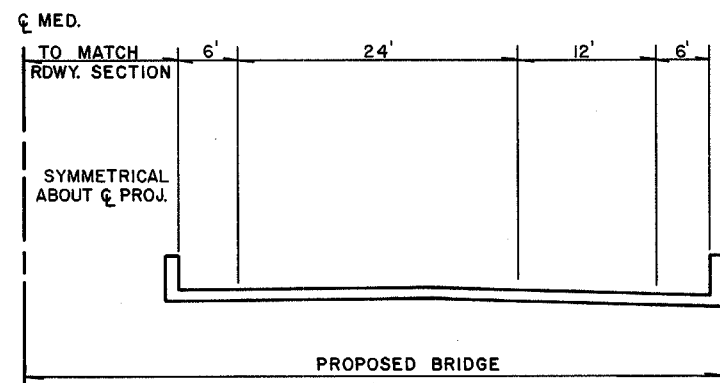
TYPICAL SECTION A - 9 (None, & Partial Access Control)



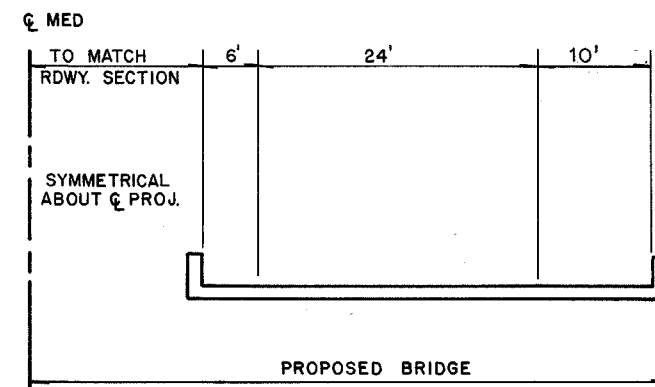
TYPICAL SECTION A - 10 (Full Access Control)



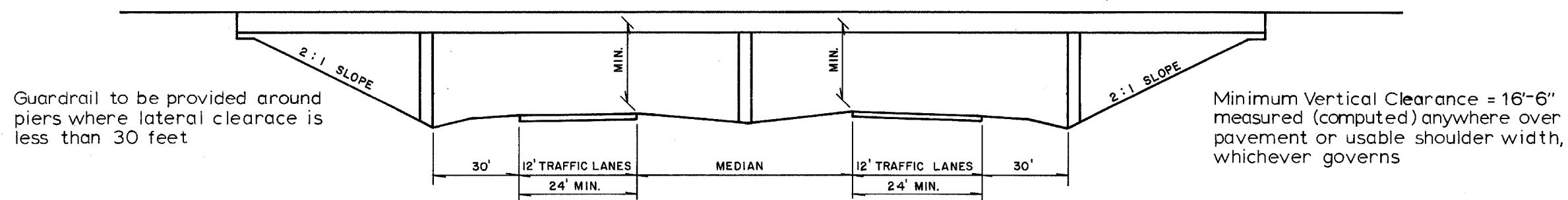
TYPICAL SECTION A - 11 (None Access Control)



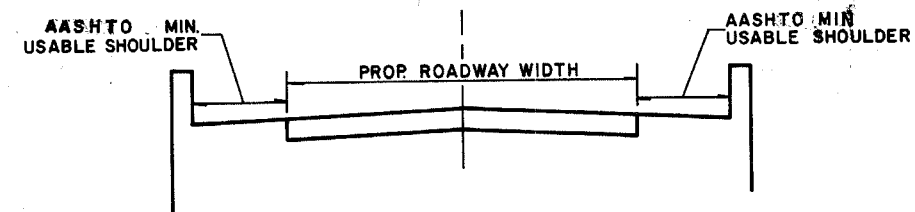
TYPICAL HALF-SECTION FOR RURAL
& URBAN OVERHEADS AT AN
INTERCHANGE B-1



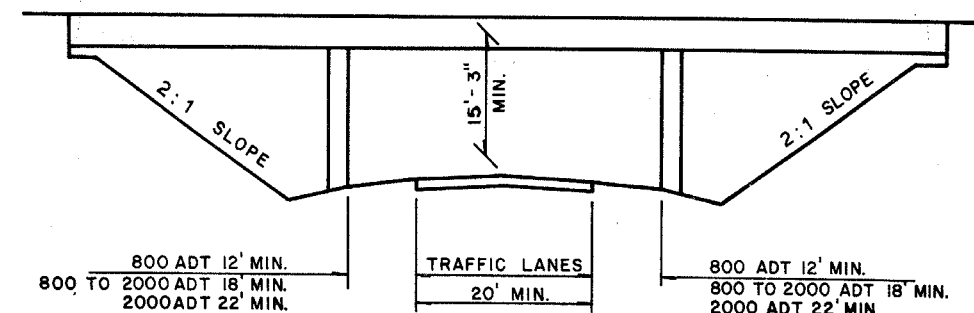
TYPICAL HALF-SECTION FOR RURAL
& URBAN BRIDGES & OVERHEADS
B-2



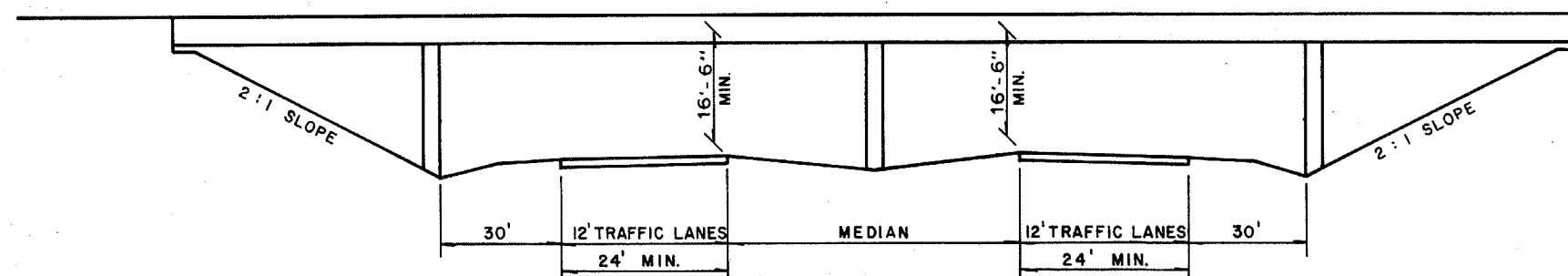
UNDERPASS GRADE SEPARATION B-3



TYPICAL SECTION FOR CROSS
ROAD OVER APD HIGHWAY
B-4

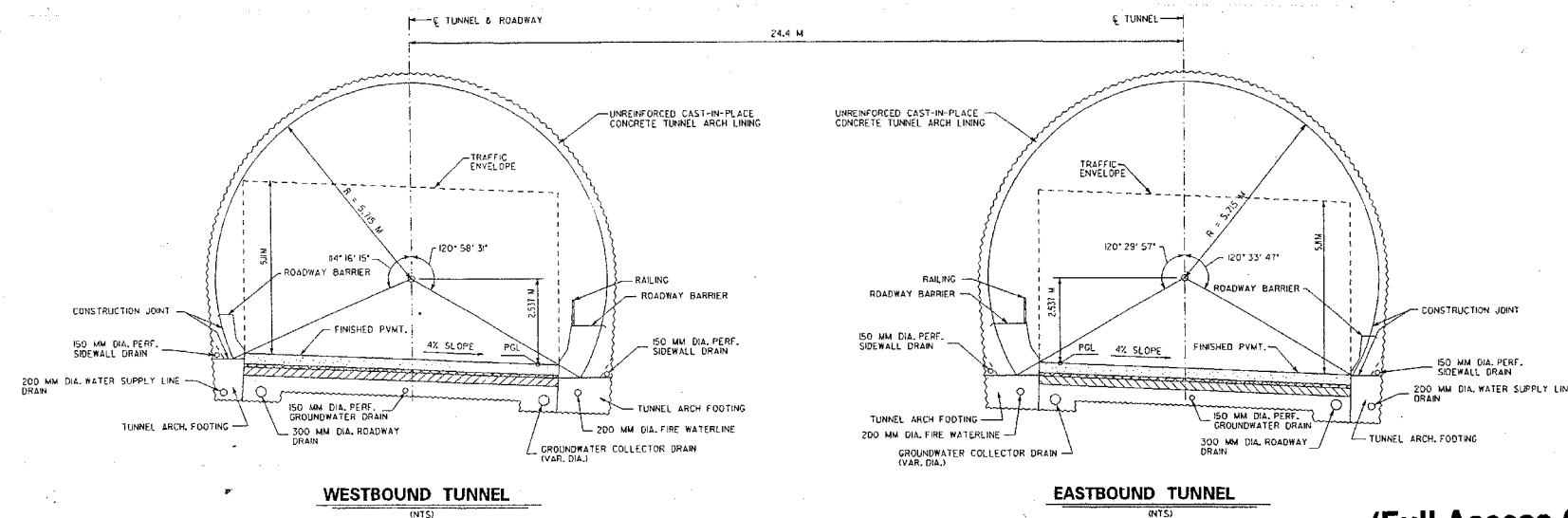


PROPOSED RURAL & URBAN
OVERHEAD GRADE SEPARATION
B-5



OVERPASS GRADE SEPARATION B-6

Guardrail to be provided around
piers where lateral clearance is
less than 30 feet

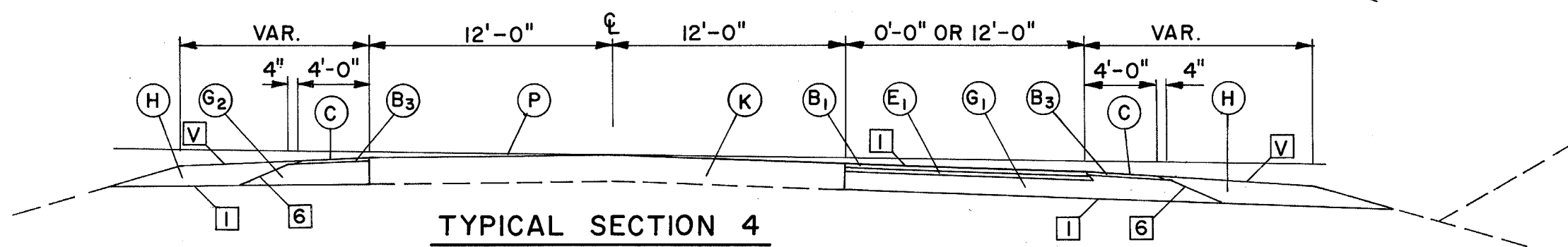
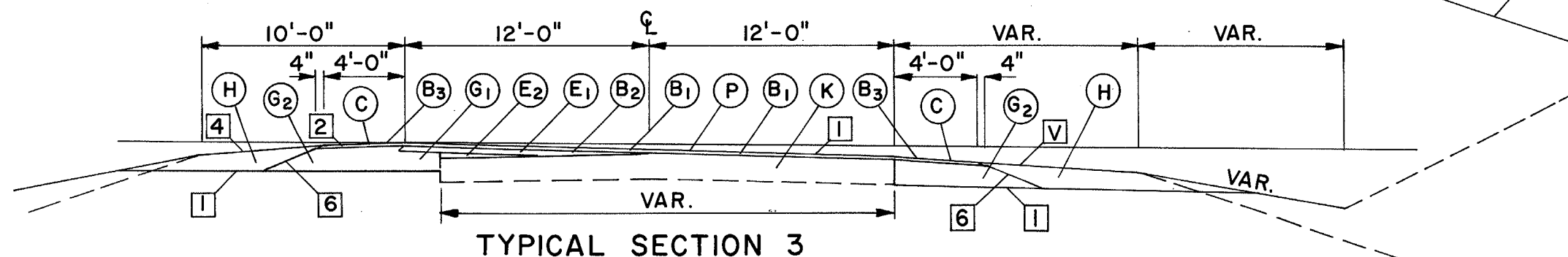
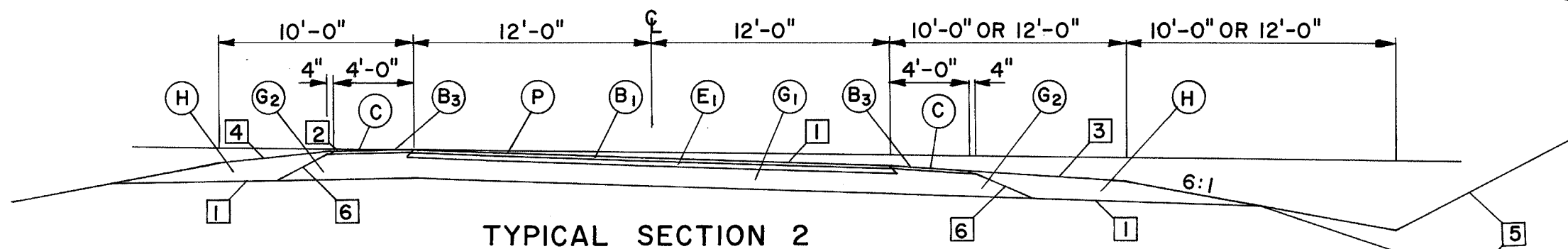
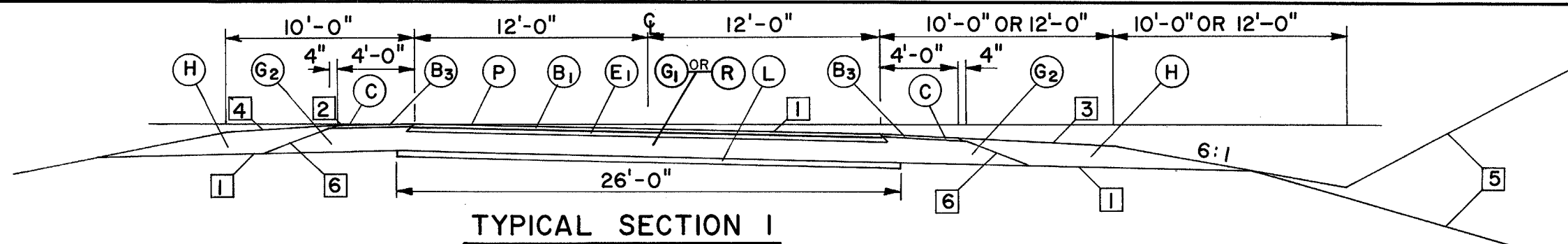


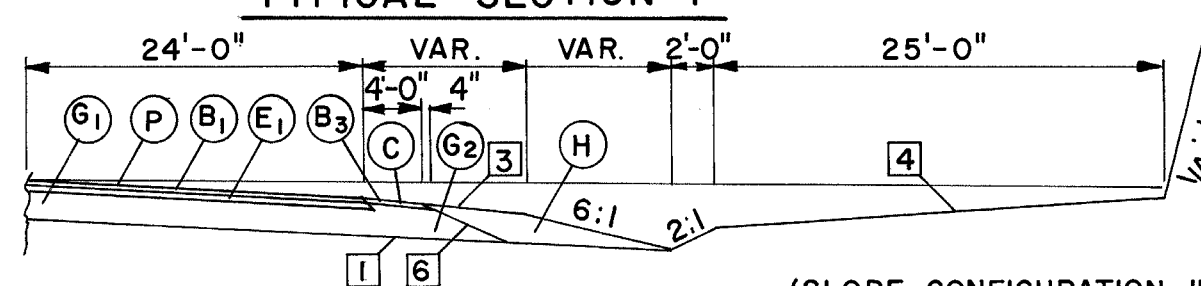
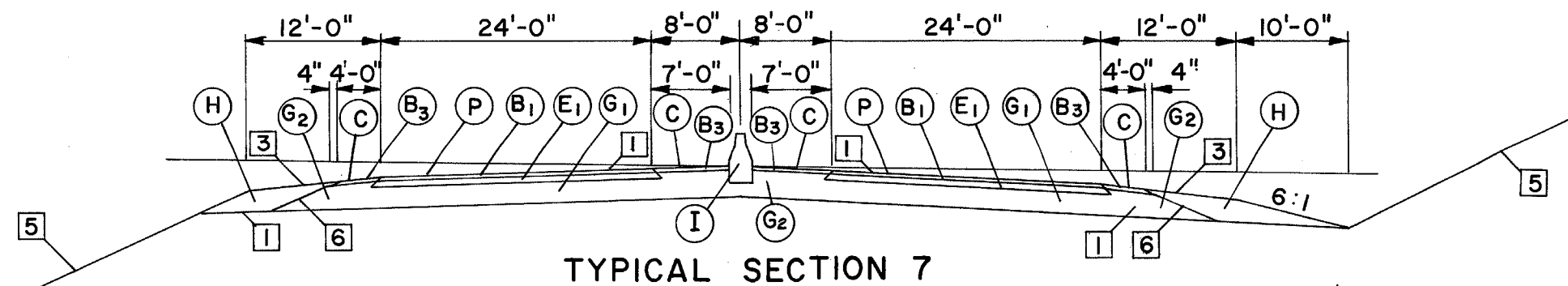
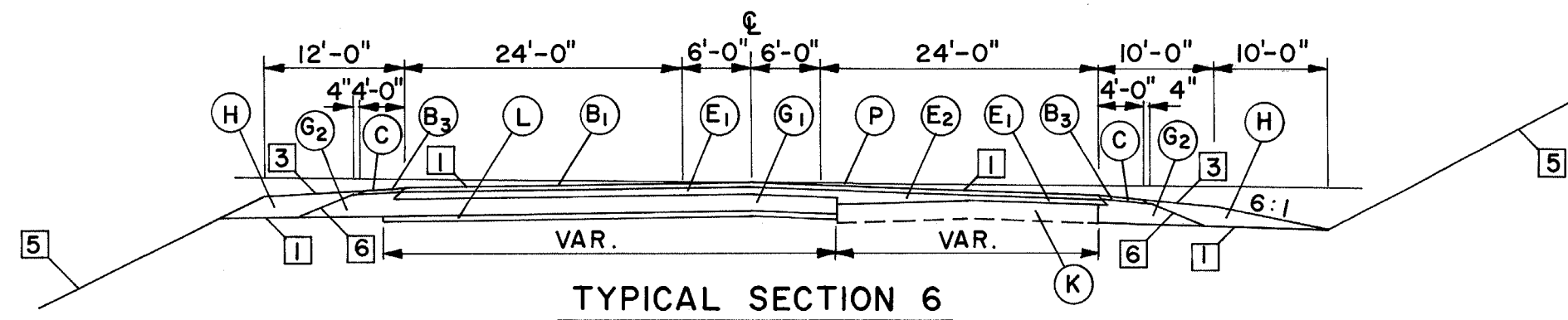
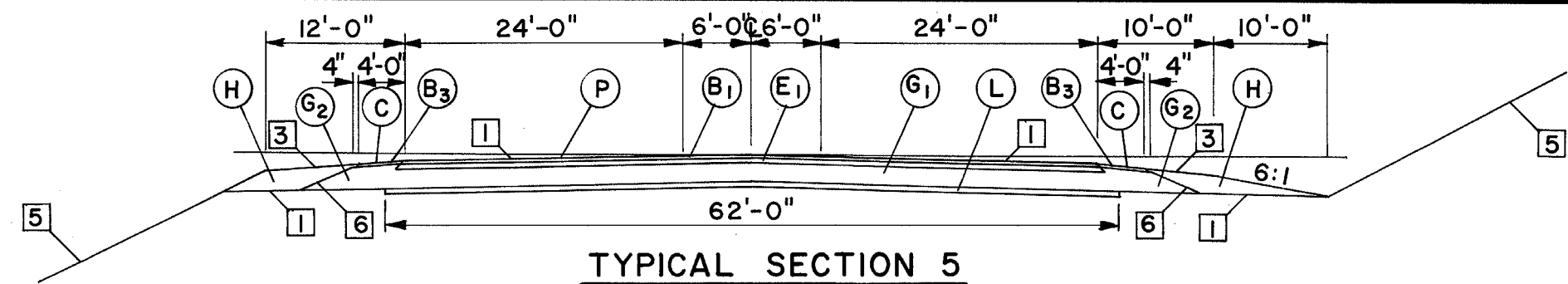
WESTBOUND TUNNEL
(NTS)

EASTBOUND TUNNEL
(NTS)

TYPICAL SECTION FOR TUNNEL B-7

(Full Access Control)





(SLOPE CONFIGURATION IN ROCK CUTS)

PAVEMENT SCHEDULE	
ITEM	DESCRIPTION
(B ₁)	1" OR 2" BITUMINOUS CONCRETE SURFACE CO., TYPE 1-2, AT 105 OR 210 LBS. PER SQ. YD.
(B ₂)	BITUMINOUS CONCRETE SURFACE CO., TYPE 1-2 (WEDGE) AT 105 LBS. PER SQ. YD. PER INCH DEPTH.
(B ₃)	1" BITUMINOUS CONCRETE SURFACE CO., TYPE 1-2 (SHOULDERS) AT 105 LBS. PER SQ. YD.
(C)	BITUMINOUS SURFACE TREATMENT, MAT AND SEAL, SHOULDERS
(E ₁)	1 1/2" OR 2" OR 2 1/2" OR 3 1/2" BITUMINOUS CONCRETE BINDER CO., TYPE H, AT 165 OR 220 OR 275 OR 330 LBS. PER SQ. YD.
(E ₂)	BITUMINOUS CONCRETE BINDER CO., TYPE H (WEDGE), AT 110 LBS. PER SQ. YD. PER INCH DEPTH.
(G ₁)	10" OR 12" OR 13" A. B. C.
(G ₂)	A. B. C. (SHOULDERS)
(H)	SHOULDER BORROW.
(I)	CONCRETE MEDIAN BARRIER.
(K)	EXISTING PAVEMENT.
(L)	SUBGRADE TO BE STABILIZED WITH 200 - 400 LBS. PER SQ. YD. OF A. B. C. MIXED WITH TOP 2" TO 4" OF SUBGRADE SOIL AT LOCATIONS DIRECTED BY THE ENGINEER.
(P)	5/8" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE J-1, AT 70 LBS. PER SQ. YD.
(R)	CEMENT TREATMENT A. B. C.

SLOPE LEGEND	
SYMBOL	DESCRIPTION
[1]	1/4 INCH PER FOOT SLOPE
[2]	1/2 INCH PER FOOT SLOPE
[3]	3/4 INCH PER FOOT SLOPE
[4]	1 INCH PER FOOT SLOPE
[5]	N.C. STANDARD SLOPES OR AS RECOMENDED BY GEOLOGY DEPT.
[6]	2 1/2 : 1 SLOPE
[V]	VARIABLE SLOPE

2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NC

ADHS Corridor: A

Section ID	A01.0.0	A02.0.0	A02.1.0	A03.0.0	A04.0.0	A05.0.0
LRS Milepoint: Beginning/Ending	0.000/2.640	2.640/3.540	7.950/8.820	8.820/12.650	12.650/17.760	17.760/26.840
Status	Stage Construction	Stage Construction	Completed	Stage Construction	Completed	Completed
1. Finance Code	21	21	20	21	20	20
2. Section Length(Miles)	2.6	0.9	0.9	3.8	5.1	9.1
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/043/11	37/043/11	37/043/11	37/043/11	37/043/11	37/043/11
---- b. HPMS Route/Subroute	0000030069/00	0000030069/00	0000020064/00	0000020064/00	0000020064/00	0000020064/00
---- c. HPMS Signed Route/Strip Map #	0000030069/A1	0000030069/A1	0000020064/A1	0000020064/A1	0000020064/A1	0000020064/A2
5. Estimate Section/NHS Designation	1/None	1/None	1/None	1/None	1/None	1/None
6. Design Speed(mph)	60	60	60	60	60	50
7. Traffic:						
---- a. ADT-Base Year (2010)	8,000	9,700	10,100	8,100	4,800	3,300
---- b. ADT-Year 2020	8,400	10,200	13,200	8,500	6,100	4,300
---- c. Design Year	2,035	2,035	2,035	2,035	1,988	1,989
---- d. ADT-Design Year	10,300	12,400	19,200	10,400	3,100	2,100
---- e. DHV-Design Year	1,200	1,500	2,300	1,200	248	168
---- f. % Truck Design Year(DHV)	8	8	12	8	4	4
---- g. % Truck Design Year(ADT)	8	8	8	8	8	8
---- h. Directional Distribution Factor	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	2	2	0	2	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	2	2
10. Typical X-Section of Reference/Access Control	A4/None	A11/None	A11/None	A4/None	A5/None	A5/None
11. Right-of-Way Width(ft), prevailing	250	100	200	250	300	400
12. Median Width(ft), prevailing	44	12	12	44	0	0
13. Status of Development(Figure 4)	3a3a	3a3a	1a	3a3c	1a	1a

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

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	1,493	417	0	2,014	0	0
15. Right-of-Way:						
---- a. Acquisition	10,501	0	0	13,975	0	0
---- b. Relocation	375	0	0	414	0	0
16. Utility Adjustments	660	732	0	348	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	3,237	717	0	5,868	0	0
18. Subbase, Base, Surfacing, Shoulders	3,020	1,340	0	6,093	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	2,870	444	0	496	0	0
23. Traffic Control	347	143	0	318	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	482	135	0	650	0	0
27. Subtotal(lines 17 thru 26)	9,956	2,779	0	13,425	0	0
28. Construction Engineering(10.00000000% of line 27)	996	278	0	1,342	0	0
29. Total Cost of Construction(lines 27 & 28)	10,952	3,057	0	14,768	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	25,180	4,416	0	33,094	0	0

2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NC

ADHS Corridor: A

Section ID	A06.0.0	A06.1.0	A06.2.0	A06.3.0	A07.0.0	A08.0.0
LRS Milepoint: Beginning/Ending	0.000/2.310	2.310/7.600	7.600/8.070	8.070/9.880	9.880/12.650	12.650/14.110
Status	Completed	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.3	5.3	0.5	1.8	2.8	1.5
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/113/11	37/113/11	37/113/11	37/113/11	37/113/11	37/113/11
---- b. HPMS Route/Subroute	0000020064/00	0000020064/00	0000020064/00	0000020064/00	0000020064/00	0000020064/00
---- c. HPMS Signed Route/Strip Map #	0000020064/A2	0000020064/A2	0000020064/A2	0000020064/A2	0000020064/A2	0000020064/A3
5. Estimate Section/NHS Designation	1/None	1/None	1/None	1/None	1/None	1/None
6. Design Speed(mph)	50	50	50	50	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	3,300	2,600	4,600	4,600	6,600	12,300
---- b. ADT-Year 2020	4,300	3,300	5,800	5,800	8,300	16,100
---- c. Design Year	1,992	1,995	1,992	1,992	1,990	1,990
---- d. ADT-Design Year	2,500	2,600	2,900	2,900	3,300	7,300
---- e. DHV-Design Year	200	208	233	232	264	584
---- f. % Truck Design Year(DHV)	4	4	4	4	4	4
---- g. % Truck Design Year(ADT)	8	8	8	8	8	8
---- h. Directional Distribution Factor	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	2	2	2	4	4	4
10. Typical X-Section of Reference/Access Control	A5/None	A5/None	A5/Partial	A1/Partial	A1/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	0	0	0	40	40	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

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	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations 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	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	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: NC

ADHS Corridor: A

Section ID	A09.0.0	A10.0.0	A11.0.0	A11.1.0	A12.0.0	A12.2.0
LRS Milepoint: Beginning/Ending	12.260/14.410	14.410/16.160	16.160/18.130	18.130/21.900	0.000/2.540	2.540/6.290
Status	Completed	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	2.2	1.7	2.1	3.6	2.5	3.7
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/113/11	37/113/11	37/113/11	37/113/11	37/099/11	37/099/11
---- b. HPMS Route/Subroute	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00
---- c. HPMS Signed Route/Strip Map #	0000020023/A3	0000020023/A3	0000020023/A3	0000020023/A3	0000020023/A3	0000020023/A3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	23,100	18,800	18,200	15,400	13,900	16,200
---- b. ADT-Year 2020	31,000	24,900	20,500	20,300	18,400	21,500
---- c. Design Year	1,990	1,990	1,998	1,998	1,998	2,001
---- d. ADT-Design Year	11,900	8,700	9,700	6,900	6,900	15,288
---- e. DHV-Design Year	952	696	776	552	552	1,223
---- f. % Truck Design Year(DHV)	4	4	4	4	4	4
---- g. % Truck Design Year(ADT)	8	8	8	8	8	8
---- h. Directional Distribution Factor	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Partial	A1/Partial	A1/Partial	A9/Partial	A9/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	400
12. Median Width(ft), prevailing	40	40	40	12	12	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

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	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations 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	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	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: NC

ADHS Corridor: A

Section ID	A13.0.0	A13.1.0	A13.2.0	A14.0.0	A15.0.0	A16.0.0
LRS Milepoint: Beginning/Ending	6.290/9.630	9.630/9.920	9.920/10.600	10.600/12.660	12.660/14.720	14.720/15.860
Status	Completed	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	3.3	0.3	0.7	2.1	2.1	1.1
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/099/11	37/099/11	37/099/11	37/099/11	37/099/11	37/099/11
---- b. HPMS Route/Subroute	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020023/00
---- c. HPMS Signed Route/Strip Map #	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	18,100	16,000	15,400	20,900	17,000	23,600
---- b. ADT-Year 2020	23,700	21,000	19,400	28,400	22,700	31,000
---- c. Design Year	2,002	2,002	1,990	1,990	1,990	1,990
---- d. ADT-Design Year	20,467	20,467	7,500	10,900	16,000	12,200
---- e. DHV-Design Year	1,637	1,637	600	872	1,280	732
---- f. % Truck Design Year(DHV)	4	4	4	4	4	3
---- g. % Truck Design Year(ADT)	8	8	8	8	8	6
---- h. Directional Distribution Factor	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Partial	A9/Partial	A7/Full	A1/Full	A1/Full	A1/None
11. Right-of-Way Width(ft), prevailing	500	300	350	350	350	350
12. Median Width(ft), prevailing	40	12	36	36	36	36
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

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	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations 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	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	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: NC

ADHS Corridor: A

Section ID	A17.0.0	A17.1.0	A17.5.0	A18.0.0	A18.5.0	A19.0.0
LRS Milepoint: Beginning/Ending	15.860/22.690	22.690/23.320	0.000/0.630	0.630/9.570	12.010/12.380	12.380/14.930
Status	Completed	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	6.8	0.5	0.8	8.9	0.4	2.5
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/099/11	37/099/11	37/087/11	37/087/11	37/087/11	37/087/11
---- b. HPMS Route/Subroute	0000020023/00	0000020023/00	0000020023/00	0000020023/00	0000020019/00	0000020019/00
---- c. HPMS Signed Route/Strip Map #	0000020023/A4	0000020023/A4	0000020023/A4	0000020023/A4	0000020019/A5	0000020019/A5
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	65	65	70	70	50
7. Traffic:						
---- a. ADT-Base Year (2010)	23,600	22,900	33,500	33,500	46,900	36,900
---- b. ADT-Year 2020	31,000	30,000	44,400	44,400	62,900	46,700
---- c. Design Year	1,995	1,988	1,988	1,985	1,985	1,987
---- d. ADT-Design Year	12,000	11,000	11,000	23,100	23,100	22,000
---- e. DHV-Design Year	720	660	660	1,386	1,386	1,320
---- f. % Truck Design Year(DHV)	3	3	3	3	3	3
---- g. % Truck Design Year(ADT)	6	6	6	6	6	6
---- h. Directional Distribution Factor	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A4/None	A6/None	A6/None	A6/Full	A6/Full	A6/Full
11. Right-of-Way Width(ft), prevailing	350	350	350	280	280	400
12. Median Width(ft), prevailing	40	16	16	16	16	20
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

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	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	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	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: NCADHS Corridor: A

Section ID	A20.0.0
LRS Milepoint: Beginning/Ending	12.260/13.260
Status	NP
1. Finance Code	20
2. Section Length(Miles)	0.8
3. Class/Urban Code	R/0
4. Location:	
---- a. FIPS State/County/Congressional	37/087/11
---- b. HPMS Route/Subroute	0000020074/00
---- c. HPMS Signed Route/Strip Map #	0000020074/A5
5. Estimate Section/NHS Designation	2/NHS
6. Design Speed(mph)	60
7. Traffic:	
---- a. ADT-Base Year (2010)	27,000
---- b. ADT-Year 2020	35,800
---- c. Design Year	1,975
---- d. ADT-Design Year	8,500
---- e. DHV-Design Year	510
---- f. % Truck Design Year(DHV)	3
---- g. % Truck Design Year(ADT)	6
---- h. Directional Distribution Factor	65
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	A8/Full
11. Right-of-Way Width(ft), prevailing	300
12. Median Width(ft), prevailing	4
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(10.00000000% 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

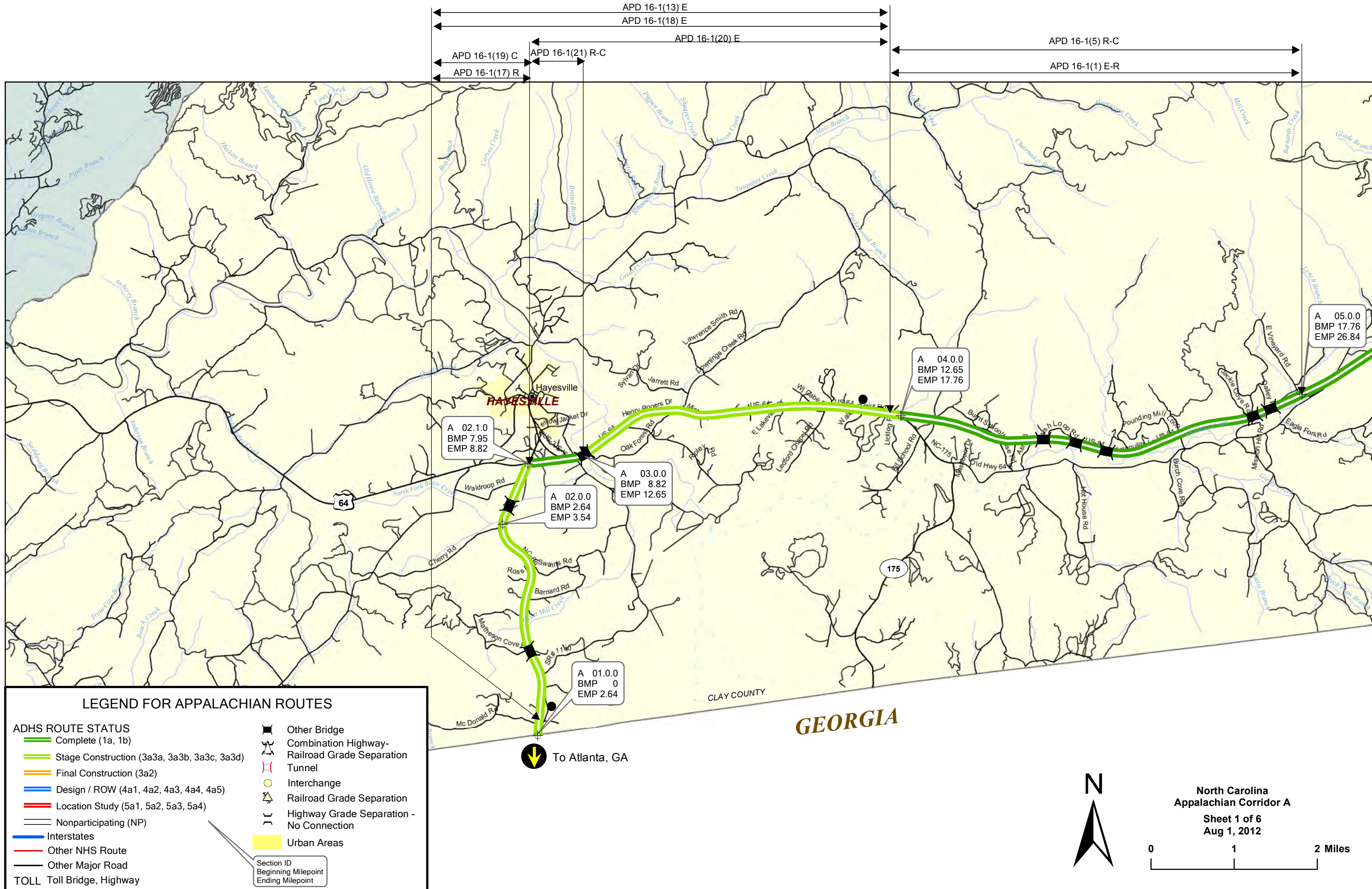
2012 Appalachian Development Highway System Cost Estimate									
Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals									

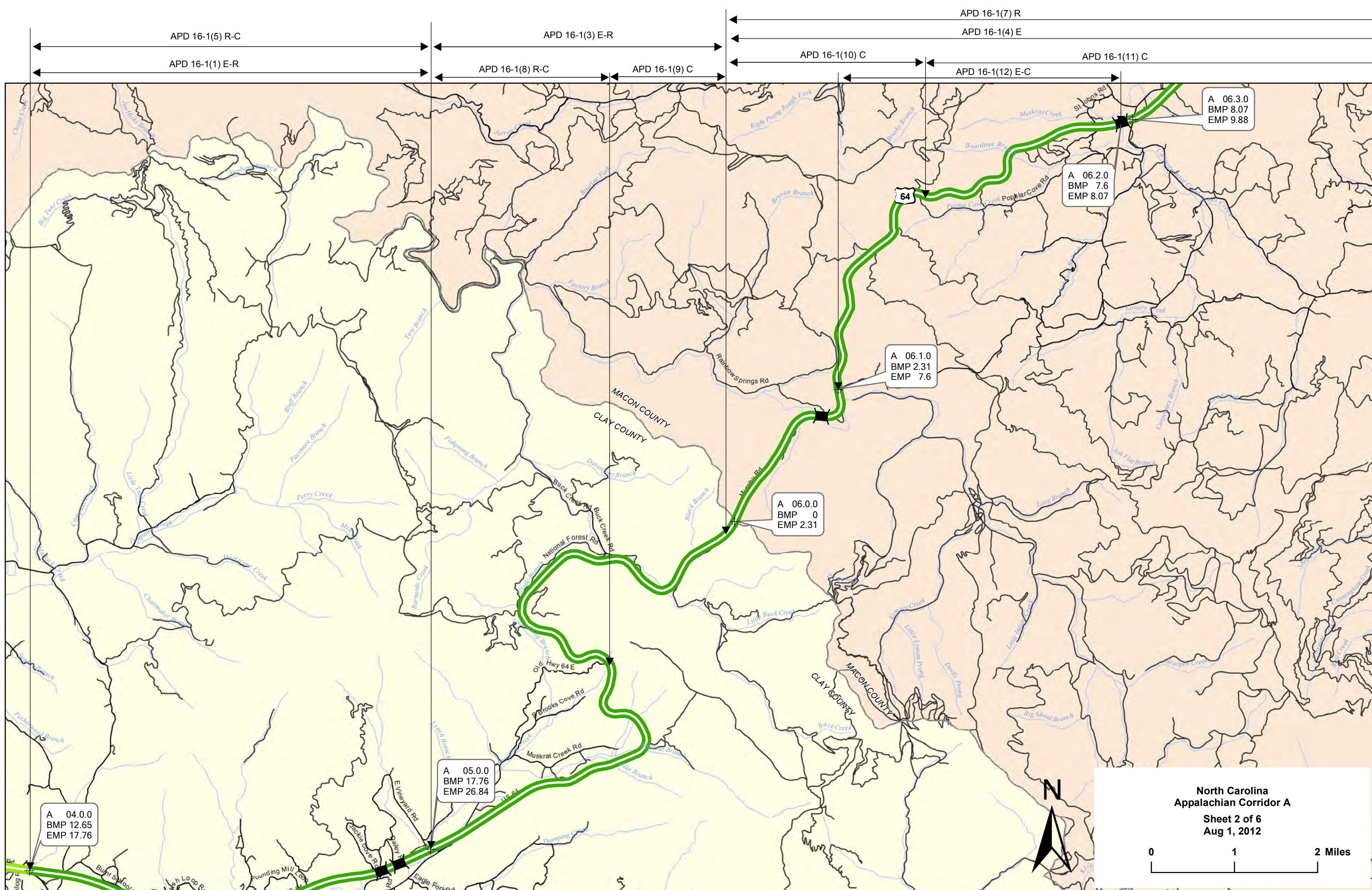
ADHS Corridor: A

Section ID	Corridor	Rural	Urban
LRS Milepoint	Total	Subtotal	Subtotal
1. Finance Code			
2. Section Length(Miles)	82.70	82.70	0.00
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	3,924	3,924	
15. Right-of-Way: ---- a. Acquisition ---- b. Relocation	24,476 789	24,476 789	
16. Utility Adjustments	1,740	1,740	
17. Erosion Control/Clear/Grade/Drain/Minor Structure	9,822	9,822	
18. Subbase, Base, Surfacing, Shoulders	10,453	10,453	
19. Railroad Grade Separations			
20. Highway Grade Separations without Ramps			
21. Interchanges			
22. Other Bridges, Tunnels, and Walls	3,810	3,810	
23. Traffic Control	808	808	
24. Environmental Mitigation			
25. Roadside Improvements: ---- a. Landscape Planting ---- b. Rest Area, Overlooks			
26. All Other Items	1,267	1,267	
27. Subtotal(lines 17 thru 26)	26,160	26,160	
28. Construction Engineering(10.00000000% of line 27)	2,616	2,616	
29. Total Cost of Construction(lines 27 & 28)	28,776	28,776	
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	62,690	62,690	





APD 16-1(11) C

APD 16-1(7) R

APD 16-1(4) E

APD 16-1(6) R-C

APD 16-1(2) E-R

APD 5-1(3) E-R

APD 5-1(6) R-C

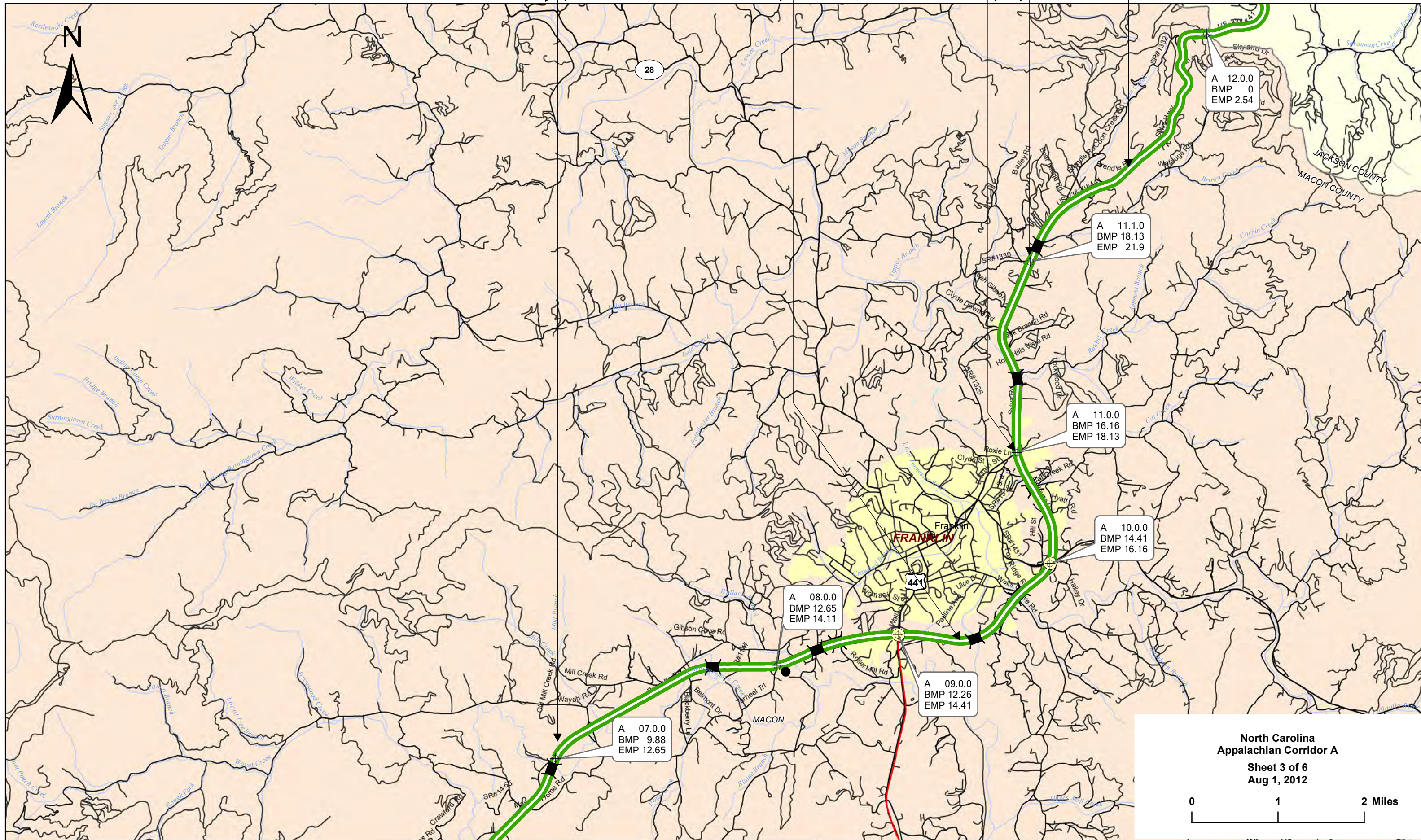
APD 5-1(7) R

APD 5-1(2) E

APD 5-1(11) C

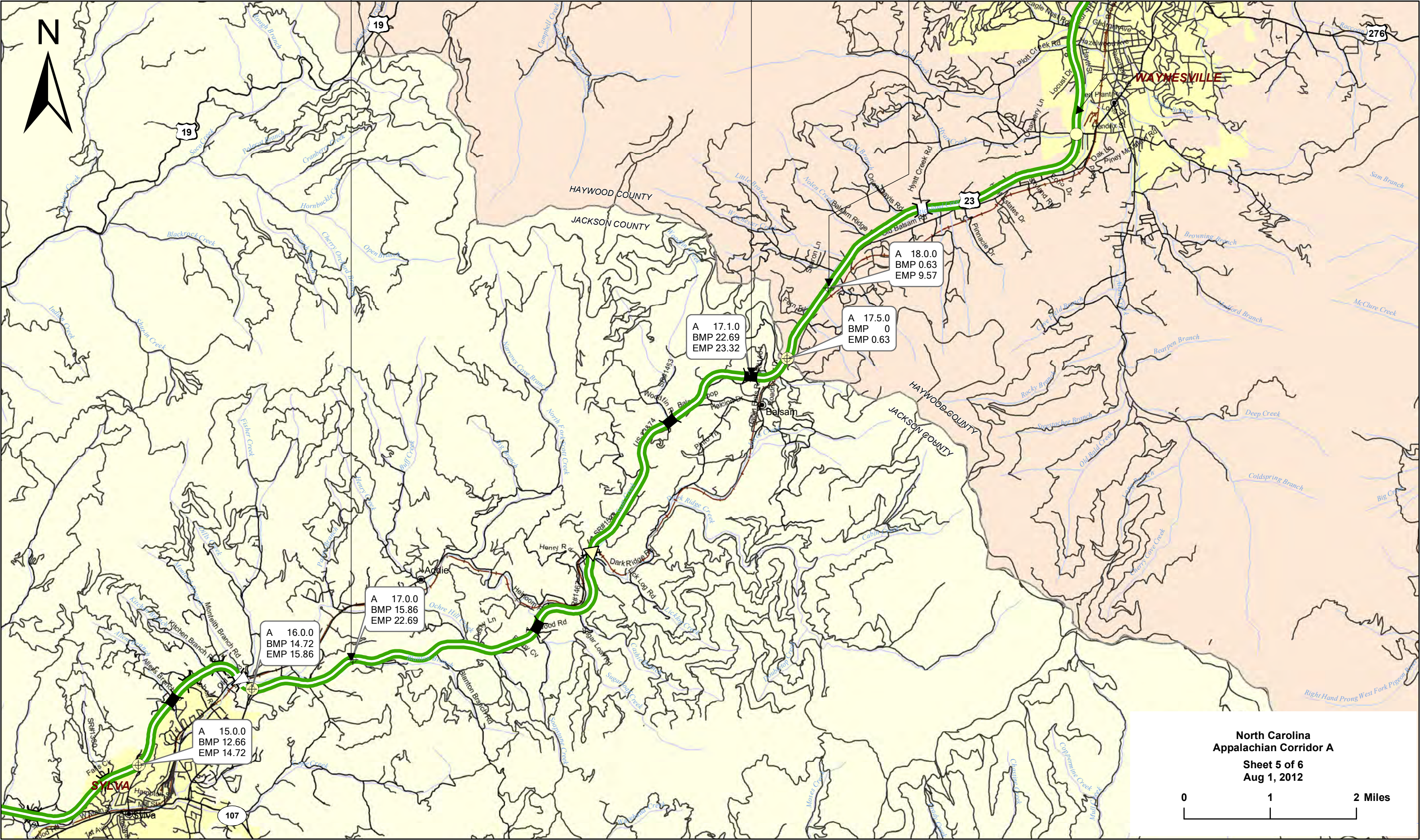
APD 5-1(12) C

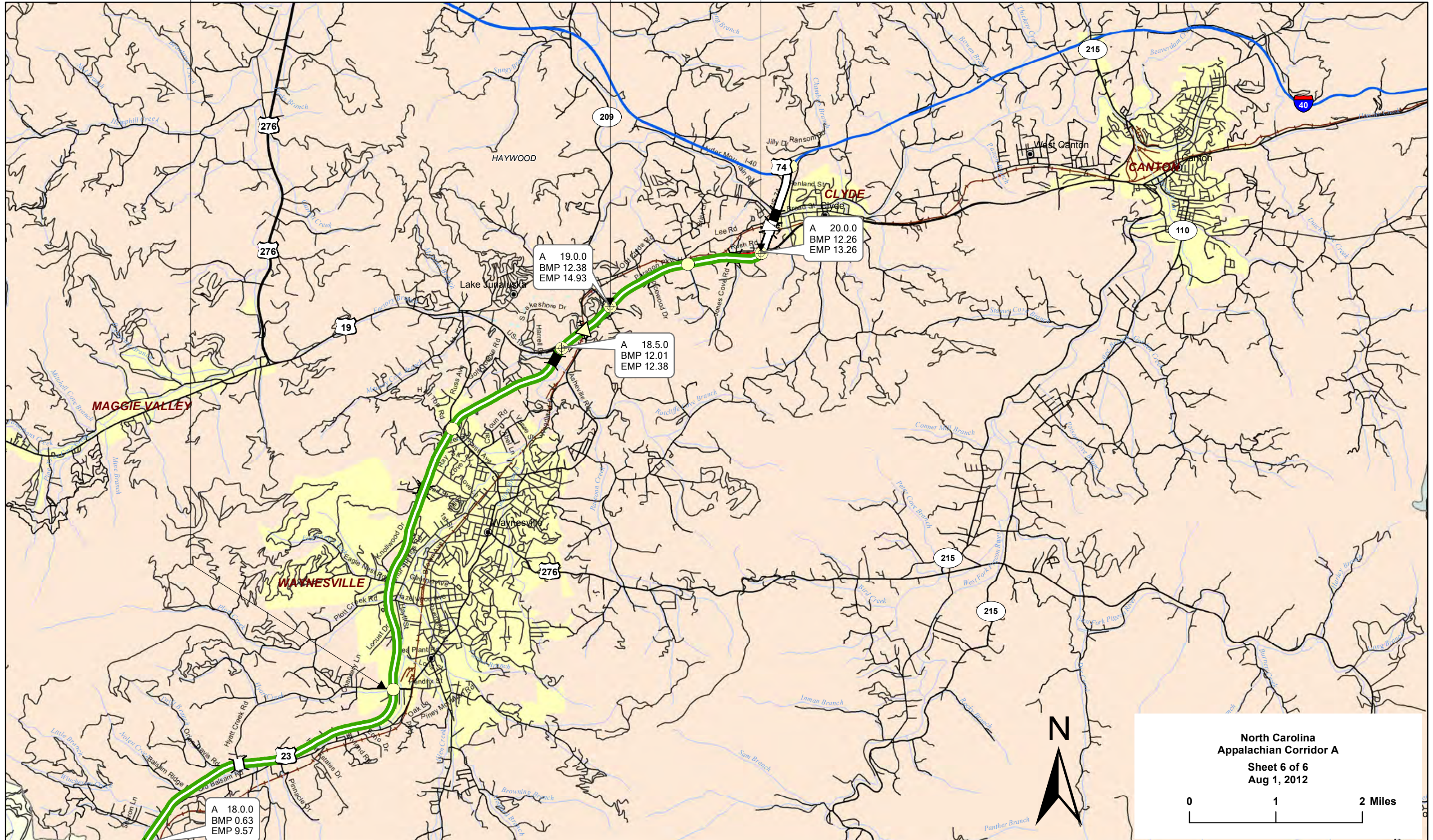
APD 5-1(9) C





APD 12-2(24) C	APD 12-2(22) R-C		APD 12-2(9) E-C
APD 12-2(19) R-C	APD 12-2(21) R	APD 12-2(17) R-C	
APD 12-2(11) E-R	APD 12-2(10) E	APD 12-2(16) E-R	APD 12-2(14) E-C





2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NC

ADHS Corridor: B

Section ID	B01.0.0	B01.1.0	B02.0.0	B03.0.0	B04.0.0	B05.0.0
LRS Milepoint: Beginning/Ending	0.000/0.400	0.400/0.940	0.940/3.030	3.030/3.540	3.540/3.790	12.290/13.140
Status	NP	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	0.4	0.5	2.1	0.5	0.2	0.8
3. Class/Urban Code	U/0170	U/170	U/170	U/170	U/170	U/170
4. Location:						
---- a. FIPS State/County/Congressional	37/021/11	37/021/11	37/021/11	37/021/11	37/021/11	37/021/11
---- b. HPMS Route/Subroute	0000010240/00	0000010240/00	0000010240/00	0000010240/00	0000010240/00	0000020019/00
---- c. HPMS Signed Route/Strip Map #	0000010240/B1	0000010240/B1	0000010240/B1	0000010240/B1	0000010240/B1	0000020019/B1
5. Estimate Section/NHS Designation	2/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	50	50	50	50	50
7. Traffic:						
---- a. ADT-Base Year (2010)	58,200	58,200	64,400	57,900	102,000	102,000
---- b. ADT-Year 2020	74,600	74,600	80,600	71,400	119,000	119,000
---- c. Design Year	1,975	1,986	1,986	1,987	1,986	1,988
---- d. ADT-Design Year	30,700	30,800	39,500	73,000	71,800	76,100
---- e. DHV-Design Year	3,070	3,080	3,950	7,300	7,180	7,610
---- f. % Truck Design Year(DHV)	5	5	5	5	5	5
---- g. % Truck Design Year(ADT)	10	10	10	10	10	10
---- h. Directional Distribution Factor	61	61	61	62	62	62
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	8	8	4
10. Typical X-Section of Reference/Access Control	A6/Full	A6/Full	A6/Full	A6/Full	A6/Full	A6/Full
11. Right-of-Way Width(ft), prevailing	300	300	300	300	250	300
12. Median Width(ft), prevailing	16	16	16	16	40	8
13. Status of Development(Figure 4)	np	1a	1a	1a	1a	1a

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	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations 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	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	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: NC

ADHS Corridor: B

Section ID	B06.0.0	B07.0.0	B07.1.0	B08.0.0	B09.0.0	B09.5.0
LRS Milepoint: Beginning/Ending	13.140/16.220	16.220/17.650	17.650/22.200	22.200/24.930	24.930/27.930	0.000/1.020
Status	Completed	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	3.1	1.5	4.5	2.7	2.4	1
3. Class/Urban Code	U/170	U/170	U/170	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/021/11	37/021/11	37/021/11	37/021/11	37/021/11	37/115/11
---- b. HPMS Route/Subroute	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00
---- c. HPMS Signed Route/Strip Map #	0000020019/B1	0000020019/B1	0000020019/B1	0000020019/B2	0000020019/B2	0000020019/B2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	70	70	70	70	70	70
7. Traffic:						
---- a. ADT-Base Year (2010)	56,500	51,000	50,900	34,500	21,400	21,100
---- b. ADT-Year 2020	70,900	65,000	64,800	45,900	27,700	27,100
---- c. Design Year	1,989	1,985	1,985	1,992	1,992	1,992
---- d. ADT-Design Year	28,500	23,900	17,800	16,600	13,000	13,000
---- e. DHV-Design Year	2,850	2,390	1,780	1,660	1,300	1,300
---- f. % Truck Design Year(DHV)	5	5	5	5	5	5
---- g. % Truck Design Year(ADT)	10	10	10	10	10	10
---- h. Directional Distribution Factor	62	62	61	61	61	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Full	A1/Full	A1/Full	A1/Full	A1/Full	A1/Full
11. Right-of-Way Width(ft), prevailing	250	280	280	350	350	350
12. Median Width(ft), prevailing	40	40	40	40	40	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

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	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations 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	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	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: NC

ADHS Corridor: B

Section ID	B10.0.0	B10.1.0	B13.0.0
LRS Milepoint: Beginning/Ending	1.020/3.730	3.730/9.690	9.690/12.570
Status	Completed	Completed	Completed
1. Finance Code	20	20	20
2. Section Length(Miles)	2.7	6	3
3. Class/Urban Code	R/0	R/0	R/0
4. Location:			
---- a. FIPS State/County/Congressional	37/115/11	37/115/11	37/115/11
---- b. HPMS Route/Subroute	0000020019/00	0000020023/00	0000020023/00
---- c. HPMS Signed Route/Strip Map #	0000020019/B2	0000020023/B2	0000020023/B2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	50	60	60
7. Traffic:			
---- a. ADT-Base Year (2010)	18,300	8,300	7,700
---- b. ADT-Year 2020	23,000	10,600	10,600
---- c. Design Year	1,992	2,018	2,018
---- d. ADT-Design Year	13,000	30,083	22,200
---- e. DHV-Design Year	1,300	3,610	2,664
---- f. % Truck Design Year(DHV)	5	6	12
---- g. % Truck Design Year(ADT)	10	12	23
---- h. Directional Distribution Factor	60	60	61
8. Number of Lanes to be Constructed this Estimate	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Full	A10/Full	A10/Full
11. Right-of-Way Width(ft), prevailing	300	1,000	1,000
12. Median Width(ft), prevailing	46	22	22
13. Status of Development(Figure 4)	1a	1a	1a

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

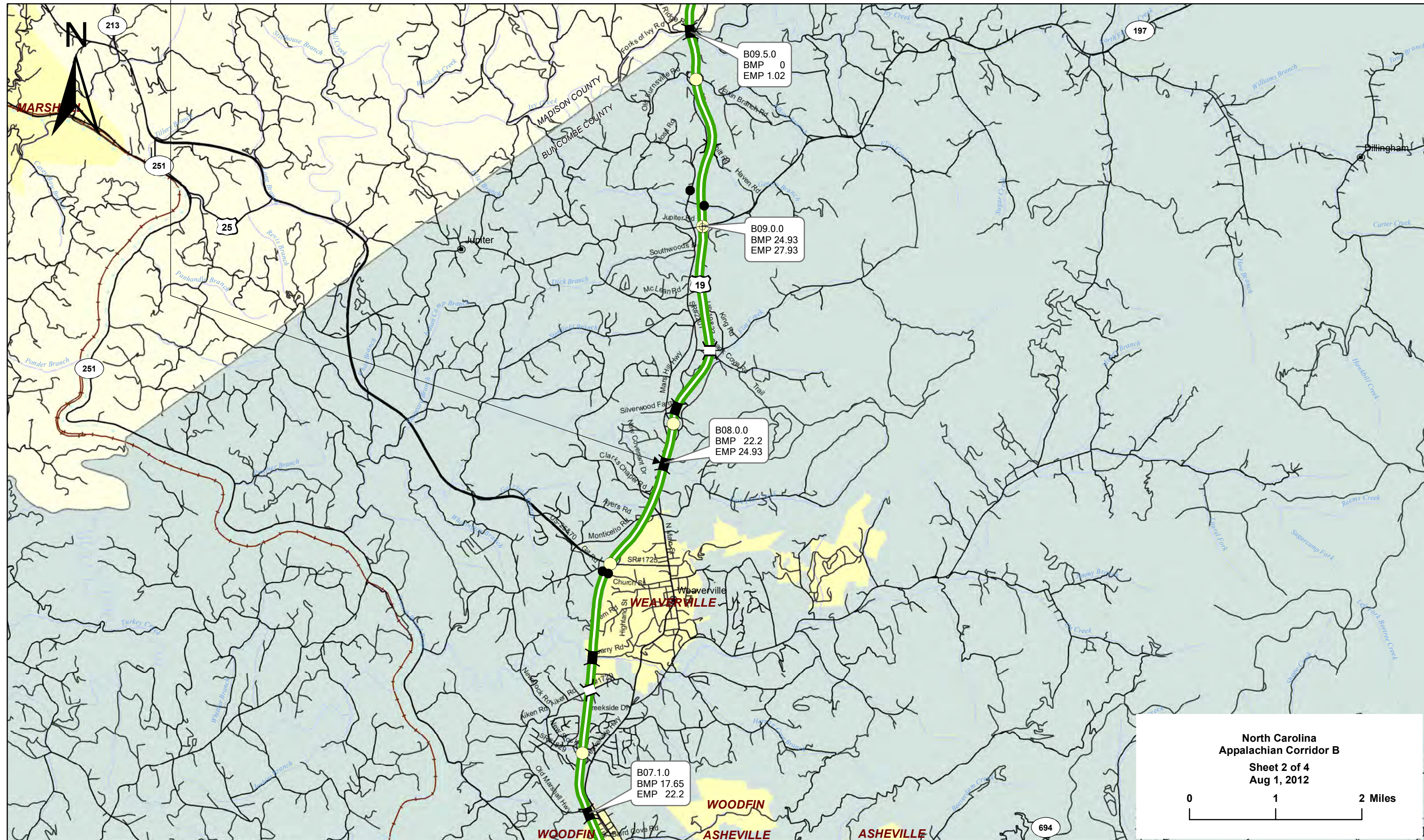
14. Preliminary Engineering:			
---- a. Location	0	0	0
---- b. Design	0	0	0
15. Right-of-Way:			
---- a. Acquisition	0	0	0
---- b. Relocation	0	0	0
16. Utility Adjustments	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0
19. Railroad Grade Separations	0	0	0
20. Highway Grade Separations without Ramps	0	0	0
21. Interchanges	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0
23. Traffic Control	0	0	0
24. Environmental Mitigation	0	0	0
25. Roadside Improvements:			
---- a. Landscape Planting	0	0	0
---- b. Rest Area, Overlooks	0	0	0
26. All Other Items	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	0

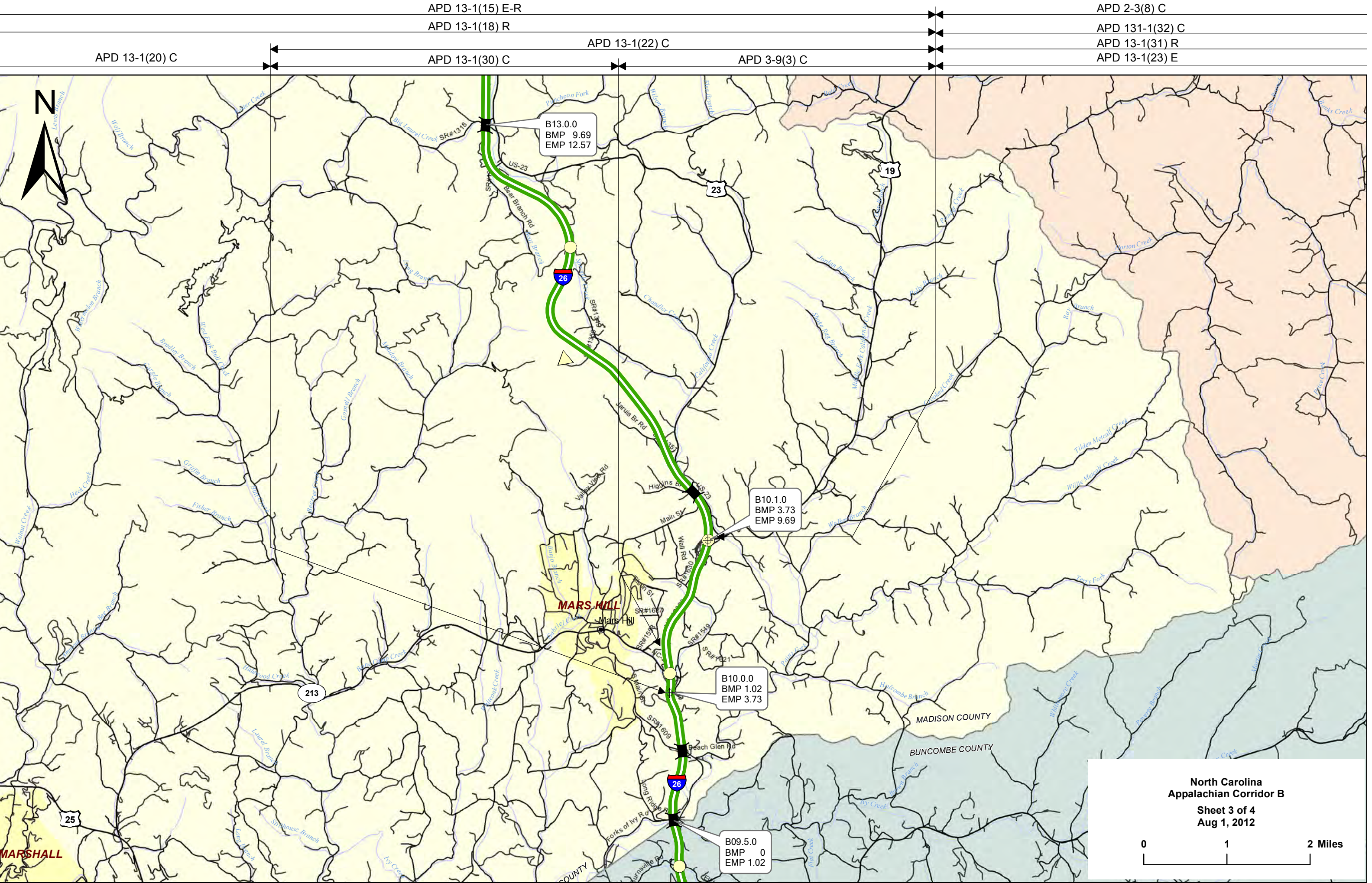
2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NCADHS Corridor: B

Section ID 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)	Corridor Total	Rural Subtotal	Urban Subtotal
	31.40	17.80	13.60
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(10.00000000% of line 27) 29. Total Cost of Construction(lines 27 & 28) 30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			





APD 2-3(8) C

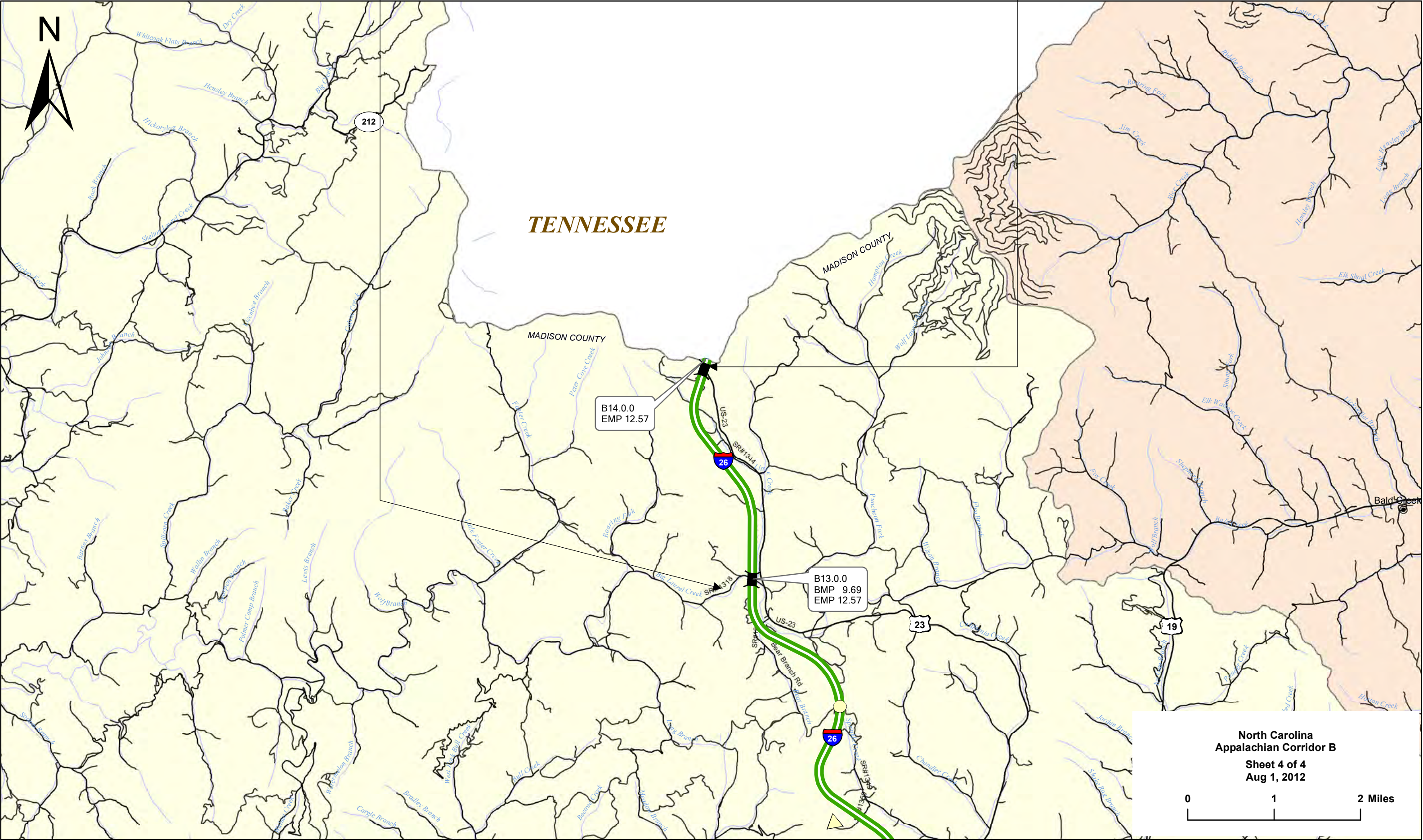
APD 13-1(23) E

APD 13-1(32) C

APD 13-1(31) R

APD 13-1(28) R

APD 13-1(34) C



2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NC

ADHS Corridor: K

Section ID	K01.0.0	K02.0.0	K02.5.0	K03.0.0	K03.1.0	K03.2.0
LRS Milepoint: Beginning/Ending	0.000/11.740	11.740/14.600	3.830/8.280	8.280/8.630	8.630/12.520	12.520/16.550
Status	Completed	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20	20
2. Section Length(Miles)	11.7	2.9	4.4	0.4	3.9	4
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11
---- b. HPMS Route/Subroute	0000020064/00	0000020064/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00
---- c. HPMS Signed Route/Strip Map #	0000020064/K1	0000020064/K2	0000020019/K2	0000020019/K2	0000020019/K2	0000020019/K2
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	55	55	55	55	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	4,900	9,000	19,200	22,500	19,700	12,200
---- b. ADT-Year 2020	6,000	11,200	24,600	27,600	26,200	15,000
---- c. Design Year	1,988	1,988	1,988	1,988	1,996	1,996
---- d. ADT-Design Year	6,000	11,900	11,900	11,900	10,100	10,900
---- e. DHV-Design Year	720	1,071	1,071	1,071	909	981
---- f. % Truck Design Year(DHV)	6	4	4	4	4	4
---- g. % Truck Design Year(ADT)	12	9	9	9	9	9
---- h. Directional Distribution Factor	60	58	58	58	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A3/None	A3/None	A3/None	A1/None	A1/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	36	36	38	40	40	40
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	1a

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	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations 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	0	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	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: NC

ADHS Corridor: K

Section ID	K03.3.0	K03.4.0	K04.0.0	K04.1.0	K04.2.0	K04.9.0
LRS Milepoint: Beginning/Ending	16.550/17.070	17.070/18.350	18.350/20.730	20.730/23.550	23.550/23.910	0.000/3.100
Status	Completed	Completed	Completed	Completed	Completed	Location Study
1. Finance Code	20	20	20	20	20	23
2. Section Length(Miles)	0.5	1.3	2.4	2.8	0.3	3.1
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11	37/039/11
---- b. HPMS Route/Subroute	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000020019/00	0000074APD/00
---- c. HPMS Signed Route/Strip Map #	0000020019/K2	0000020019/K2	0000020019/K2	0000020019/K3	0000020019/K3	0000074APD/K3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	8,000	7,800	8,800	8,700	7,700	4,200
---- b. ADT-Year 2020	8,800	8,600	9,700	9,600	9,600	4,500
---- c. Design Year	1,996	1,998	1,998	1,995	1,995	2,035
---- d. ADT-Design Year	10,900	9,700	10,100	9,600	9,600	5,600
---- e. DHV-Design Year	872	776	808	768	768	700
---- f. % Truck Design Year(DHV)	4	4	4	4	4	18
---- g. % Truck Design Year(ADT)	8	8	8	8	8	18
---- h. Directional Distribution Factor	60	60	60	60	60	55
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0	4
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Partial	A1/Partial	A1/Partial	A1/Partial	A1/Partial	A10/Full
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	40	40	40	40	40	14
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a	5a1

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	4,213
15. Right-of-Way:						
---- a. Acquisition	0	0	0	0	0	9,456
---- b. Relocation	0	0	0	0	0	930
16. Utility Adjustments	0	0	0	0	0	575
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0	20,969
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0	5,207
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations 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	563
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	0	0	0	0	0	1,346
27. Subtotal(lines 17 thru 26)	0	0	0	0	0	28,085
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0	2,808
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0	30,894
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	0	0	0	48,371

2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NC

ADHS Corridor: K

Section ID	K05.2.0	K05.3.0	K05.5.0	K06.0.0	K06.5.0	K07.0.0
LRS Milepoint: Beginning/Ending	3.100/3.400	0.000/0.700	0.700/4.900	4.900/7.700	7.700/9.700	9.700/10.500
Status	Location Study	Location Study	Location Study	Location Study	Location Study	Location Study
1. Finance Code	23	23	23	23	23	23
2. Section Length(Miles)	0.3	0.7	4.2	2.8	2	0.8
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/039/11	37/075/11	37/075/11	37/075/11	37/075/11	37/075/11
---- b. HPMS Route/Subroute	0000074APD/00	0000074APD/00	0000074APD/00	0000074APD/00	0000074APD/00	0000074APD/00
---- c. HPMS Signed Route/Strip Map #	0000074APD/K3	0000074APD/K3	0000074APD/K3	0000074APD/K3	0000074APD/K3	0000074APD/K3
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	4,200	4,200	4,200	7,500	3,600	2,700
---- b. ADT-Year 2020	4,500	4,500	4,500	8,200	4,700	3,400
---- c. Design Year	2,035	2,035	2,035	2,035	2,035	2,035
---- d. ADT-Design Year	5,600	5,600	5,600	11,000	9,100	6,400
---- e. DHV-Design Year	700	700	600	1,200	1,000	640
---- f. % Truck Design Year(DHV)	18	18	18	11	11	15
---- g. % Truck Design Year(ADT)	18	18	18	11	11	15
---- h. Directional Distribution Factor	55	55	55	55	55	60
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	B7/Full	B7/Full	A1/Full	A1/None	A1/None	A1/None
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	36	36	30	30	30	30
13. Status of Development(Figure 4)	5a1	5a1	5a1	5a3	5a3	5a3

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

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	4,106	10,864	7,527	4,210	2,667	2,993
15. Right-of-Way:						
---- a. Acquisition	102	143	4,369	10,102	4,777	2,689
---- b. Relocation	0	0	230	488	304	89
16. Utility Adjustments	0	0	350	750	800	175
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	38,083	16,997	12,325	16,248
18. Subbase, Base, Surfacing, Shoulders	0	0	7,046	4,658	3,527	2,435
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	1,862	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	52,138	137,937	0	4,226	472	0
23. Traffic Control	6	14	787	839	600	320
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	2,608	6,900	2,402	1,344	853	952
27. Subtotal(lines 17 thru 26)	54,752	144,851	50,180	28,064	17,777	19,955
28. Construction Engineering(10.00000000% of line 27)	5,475	14,485	5,018	2,806	1,778	1,996
29. Total Cost of Construction(lines 27 & 28)	60,227	159,336	55,198	30,870	19,555	21,950
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	67,657	178,860	71,058	48,741	29,508	29,291

2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NC

ADHS Corridor: K

Section ID	K07.8.0	K08.2.0	K08.6.0	K08.8.0	K08.9.0	K09.0.0
LRS Milepoint: Beginning/Ending	10.500/11.100	11.100/14.700	5.100/2.400	2.400/0.300	0.300/0.000	13.650/11.430
Status	Location Study	Location Study	Completed	Completed	Completed	Completed
1. Finance Code	23	23	20	20	20	20
2. Section Length(Miles)	0.6	3.6	2.7	2.1	0.3	2.2
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/075/11	37/075/11	37/075/11	37/075/11	37/075/11	37/173/11
---- b. HPMS Route/Subroute	0000074APD/00	0000074APD/00	0000030028/00	0000030028/00	0000030028/00	0000030028/00
---- c. HPMS Signed Route/Strip Map #	0000074APD/K3	0000074APD/K4	0000030028/K4	0000030028/K4	0000030028/K4	0000030028/K4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	60	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	2,700	2,700	3,400	3,400	3,400	3,400
---- b. ADT-Year 2020	3,400	3,400	7,000	7,000	7,000	7,000
---- c. Design Year	2,035	2,035	2,019	2,017	2,017	2,017
---- d. ADT-Design Year	6,400	6,400	12,101	9,330	9,330	9,330
---- e. DHV-Design Year	640	640	968	746	746	746
---- f. % Truck Design Year(DHV)	15	15	4	4	4	4
---- g. % Truck Design Year(ADT)	15	15	8	8	8	8
---- h. Directional Distribution Factor	60	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	4	4	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	B7/Full	A1/None	A1/None	A1/None	A2/None	A2/None
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	300
12. Median Width(ft), prevailing	36	30	30	30	30	30
13. Status of Development(Figure 4)	5a3	5a3	1a	1a	1a	1a

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

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	8,559	13,988	0	0	0	0
15. Right-of-Way:						
---- a. Acquisition	133	7,331	0	0	0	0
---- b. Relocation	0	530	0	0	0	0
16. Utility Adjustments	0	300	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	74,097	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	10,043	0	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	108,666	3,223	0	0	0	0
23. Traffic Control	18	1,438	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	5,436	4,452	0	0	0	0
27. Subtotal(lines 17 thru 26)	114,120	93,253	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	11,412	9,325	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	125,532	102,578	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	140,935	130,964	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: NC

ADHS Corridor: K

Section ID	K09.2.0	K09.3.0	K09.3.5	K09.4.0	K09.5.0	K10.0.0
LRS Milepoint: Beginning/Ending	11.430/10.820	10.820/10.310	11.580/11.860	11.860/13.630	13.630/16.900	16.900/22.460
Status	Completed	Stage Construction	Stage Construction	Completed	Completed	Completed
1. Finance Code	20	21	21	20	20	20
2. Section Length(Miles)	0.6	0.5	0.2	1.8	3.3	5.8
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0	R/0
4. Location:						
---- a. FIPS State/County/Congressional	37/173/11	37/173/11	37/173/11	37/173/11	37/173/11	37/173/11
---- b. HPMS Route/Subroute	0000030028/00	0000030028/00	0000020019/00	0000020019/00	0000020019/00	0000020074/00
---- c. HPMS Signed Route/Strip Map #	0000030028/K4	0000030028/K4	0000020019/K4	0000020019/K4	0000020019/K4	0000020074/K4
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	55	60	60	60	60	60
7. Traffic:						
---- a. ADT-Base Year (2010)	3,400	4,000	8,500	8,000	9,200	11,600
---- b. ADT-Year 2020	7,000	5,200	9,500	10,000	11,700	14,900
---- c. Design Year	2,015	2,035	2,035	2,006	2,006	1,992
---- d. ADT-Design Year	8,611	9,800	13,400	9,492	9,492	9,870
---- e. DHV-Design Year	689	980	1,340	759	759	790
---- f. % Truck Design Year(DHV)	4	14	12	4	4	4
---- g. % Truck Design Year(ADT)	8	14	12	8	8	8
---- h. Directional Distribution Factor	60	60	60	62	62	62
8. Number of Lanes to be Constructed this Estimate	0	2	2	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A2/None	A11/None	A11/None	A9/None	A2/Partial	A1/Full
11. Right-of-Way Width(ft), prevailing	300	300	300	300	300	350
12. Median Width(ft), prevailing	30	12	12	12	36	40
13. Status of Development(Figure 4)	1a	3a3a	3a3a	1a	1a	1a

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

14. Preliminary Engineering:						
---- a. Location	0	0	0	0	0	0
---- b. Design	0	1,303	186	0	0	0
15. Right-of-Way:						
---- a. Acquisition	0	1,865	0	0	0	0
---- b. Relocation	0	0	0	0	0	0
16. Utility Adjustments	0	125	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	1,352	591	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	1,094	571	0	0	0
19. Railroad Grade Seperations	0	0	0	0	0	0
20. Highway Grade Seperations without Ramps	0	0	0	0	0	0
21. Interchanges	0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	428	0	0	0	0
23. Traffic Control	0	93	21	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	5,302	0	0	0	0
26. All Other Items	0	416	60	0	0	0
27. Subtotal(lines 17 thru 26)	0	8,685	1,243	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	868	124	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	9,554	1,367	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	13,489	1,631	0	0	0

2012 Appalachian Development Highway System Cost Estimate

Table B - Design Classification and Cost Estimate by Estimate Sections with Corridor Totals

State: NC

ADHS Corridor: K

Section ID	K10.1.0	K10.1.5	K10.2.0	K11.0.0	K11.1.0
LRS Milepoint: Beginning/Ending	22.460/24.770	0.000/0.130	0.130/2.830	2.830/8.510	8.510/9.370
Status	Completed	Completed	Completed	Completed	Completed
1. Finance Code	20	20	20	20	20
2. Section Length(Miles)	2.3	0.1	2.7	5.7	0.9
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0
4. Location:					
---- a. FIPS State/County/Congressional	37/173/11	37/099/11	37/099/11	37/099/11	37/099/11
---- b. HPMS Route/Subroute	0000020074/00	0000020074/00	0000020074/00	0000020074/00	0000020074/00
---- c. HPMS Signed Route/Strip Map #	0000020074/K5	0000020074/K5	0000020074/K5	0000020074/K5	0000020074/K5
5. Estimate Section/NHS Designation	1/NHS	1/NHS	1/NHS	1/NHS	1/NHS
6. Design Speed(mph)	60	60	60	55	50
7. Traffic:					
---- a. ADT-Base Year (2010)	12,400	13,500	13,500	21,800	23,100
---- b. ADT-Year 2020	15,900	17,800	17,800	29,100	30,300
---- c. Design Year	1,993	1,993	1,993	1,995	1,990
---- d. ADT-Design Year	6,980	6,980	11,200	11,900	10,400
---- e. DHV-Design Year	558	558	784	833	728
---- f. % Truck Design Year(DHV)	4	4	3	3	3
---- g. % Truck Design Year(ADT)	8	8	7	7	7
---- h. Directional Distribution Factor	62	62	62	66	66
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Full	A1/Full	A1/Full	A6/Partial	A1/Partial
11. Right-of-Way Width(ft), prevailing	250	250	250	350	350
12. Median Width(ft), prevailing	40	40	40	16	36
13. Status of Development(Figure 4)	1a	1a	1a	1a	1a

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

14. Preliminary Engineering:					
---- a. Location	0	0	0	0	0
---- b. Design	0	0	0	0	0
15. Right-of-Way:					
---- a. Acquisition	0	0	0	0	0
---- b. Relocation	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0
19. Railroad Grade Separations	0	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0	0
21. Interchanges	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0
23. Traffic Control	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0
25. Roadside Improvements:					
---- a. Landscape Planting	0	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0	0
26. All Other Items	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	0	0	0	0

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

ADHS Corridor: K

Section ID LRS Milepoint 1. Finance Code 2. Section Length(Miles) 3. Class/Urban Code 4. Location: ---- <i>a. FIPS State/County/Congressional</i> ---- <i>b. HPMS Route/Subroute</i> ---- <i>c. HPMS Signed Route/Strip Map #</i> 5. Estimate Section/NHS Designation 6. Design Speed(mph) 7. Traffic: ---- <i>a. ADT-Base Year (2010)</i> ---- <i>b. ADT-Year 2020</i> ---- <i>c. Design Year</i> ---- <i>d. ADT-Design Year</i> ---- <i>e. DHV-Design Year</i> ---- <i>f. % Truck Design Year(DHV)</i> ---- <i>g. % Truck Design Year(ADT)</i> ---- <i>h. Directional Distribution Factor</i> 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)	Corridor Total 83.90	Rural Subtotal 83.90	Urban Subtotal 0.00
Estimated Cost(\$1,000) per Work Classification			
14. Preliminary Engineering: ---- <i>a. Location</i> ---- <i>b. Design</i> 15. Right-of-Way: ---- <i>a. Acquisition</i> ---- <i>b. Relocation</i> 16. Utility Adjustments	60,616 40,967 2,571 3,075	60,616 40,967 2,571 3,075	
17. Erosion Control/Clear/Grade/Drain/Minor Structure 18. Subbase, Base, Surfacing, Shoulders 19. Railroad Grade Seperations 20. Highway Grade Seperations without Ramps 21. Interchanges 22. Other Bridges, Tunnels, and Walls 23. Traffic Control 24. Environmental Mitigation 25. Roadside Improvements: ---- <i>a. Landscape Planting</i> ---- <i>b. Rest Area, Overlooks</i> 26. All Other Items	180,662 34,581 1,862 307,090 4,699 5,302 26,769	180,662 34,581 1,862 307,090 4,699 5,302 26,769	
27. Subtotal(lines 17 thru 26) 28. <i>Construction Engineering(10.00000000% of line 27)</i> 29. <i>Total Cost of Construction(lines 27 & 28)</i> 30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	560,965 56,097 617,062 760,505	560,965 56,097 617,062 760,505	



TENNESSEE

To Cleveland, TN



K01.0.0
BMP 0.00
EMP 11.74

K02.0.0
BMP 11.74
EMP 14.6

LEGEND FOR APPALACHIAN ROUTES

ADHS ROUTE STATUS

- Complete (1a, 1b)
- Stage Construction (3a3a, 3a3b, 3a3c, 3a3d)
- Final Construction (3a2)
- Design / ROW (4a1, 4a2, 4a3, 4a4, 4a5)
- Location Study (5a1, 5a2, 5a3, 5a4)
- Nonparticipating (NP)

- Interstates
- Other NHS Route
- Other Major Road

TOLL Toll Bridge, Highway

- Other Bridge
- Combination Highway-Railroad Grade Separation
- Tunnel
- Interchange
- Railroad Grade Separation
- Highway Grade Separation - No Connection

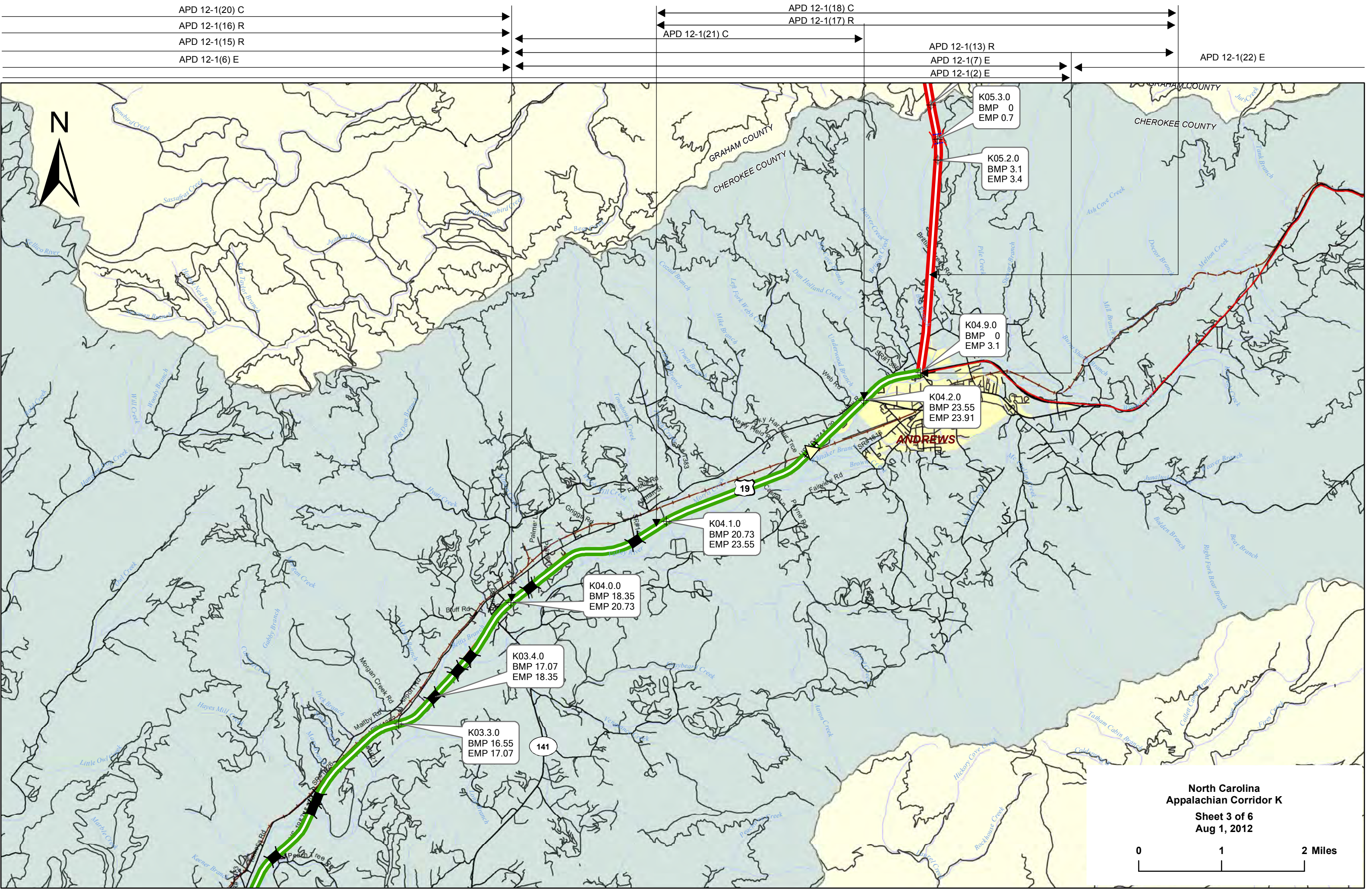
Urban Areas

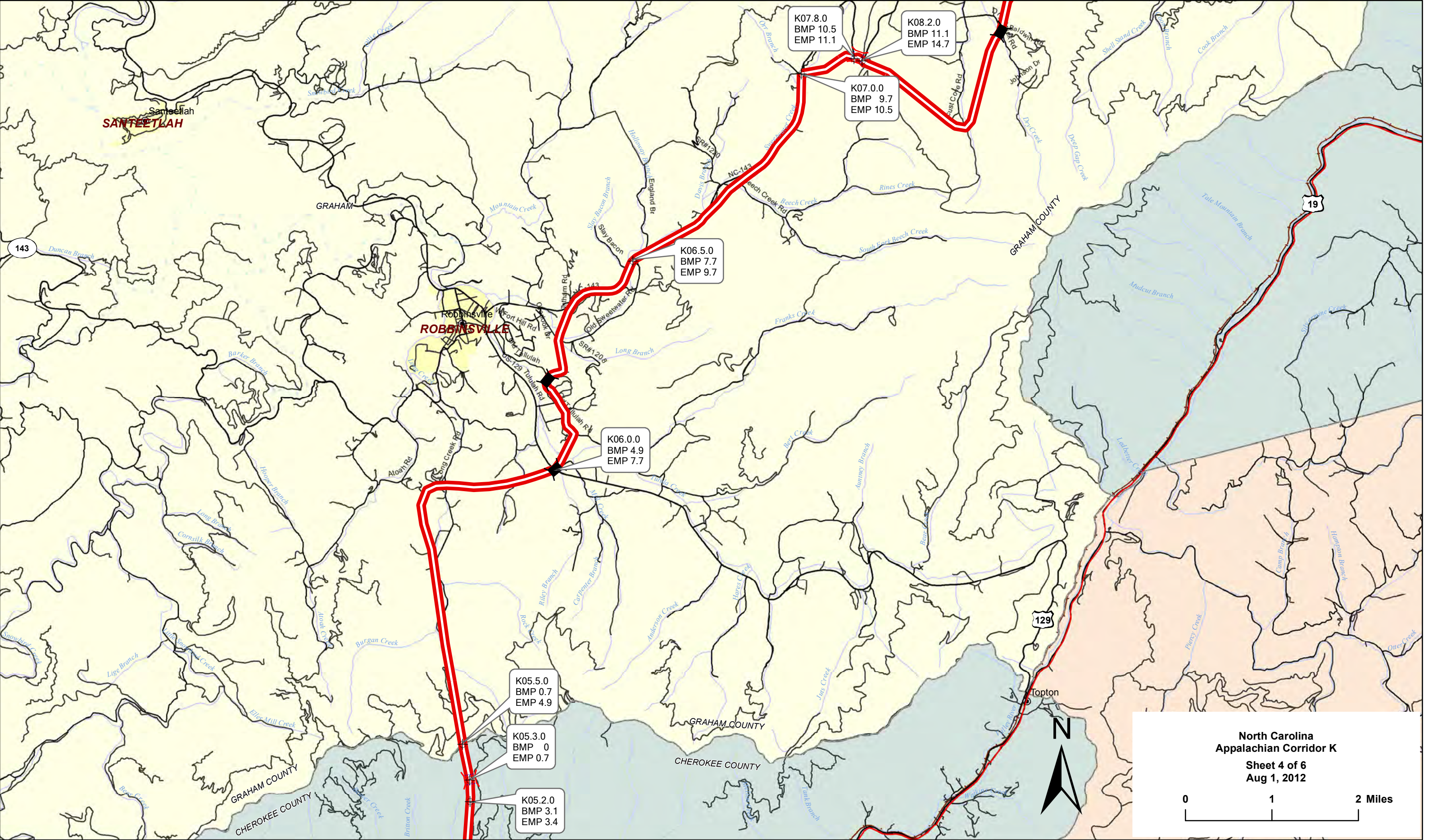
Section ID
Beginning Milepoint
Ending Milepoint

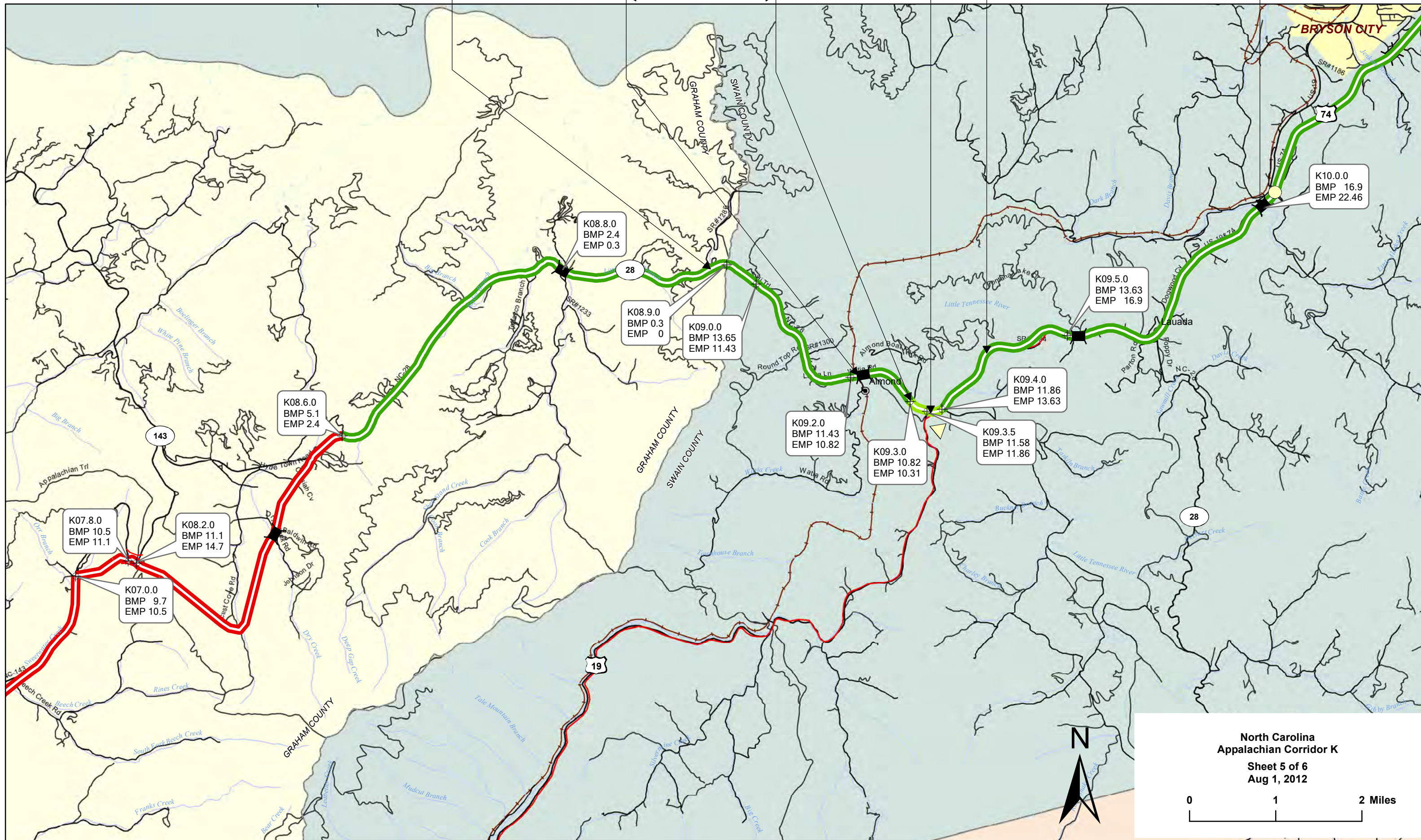
GEORGIA

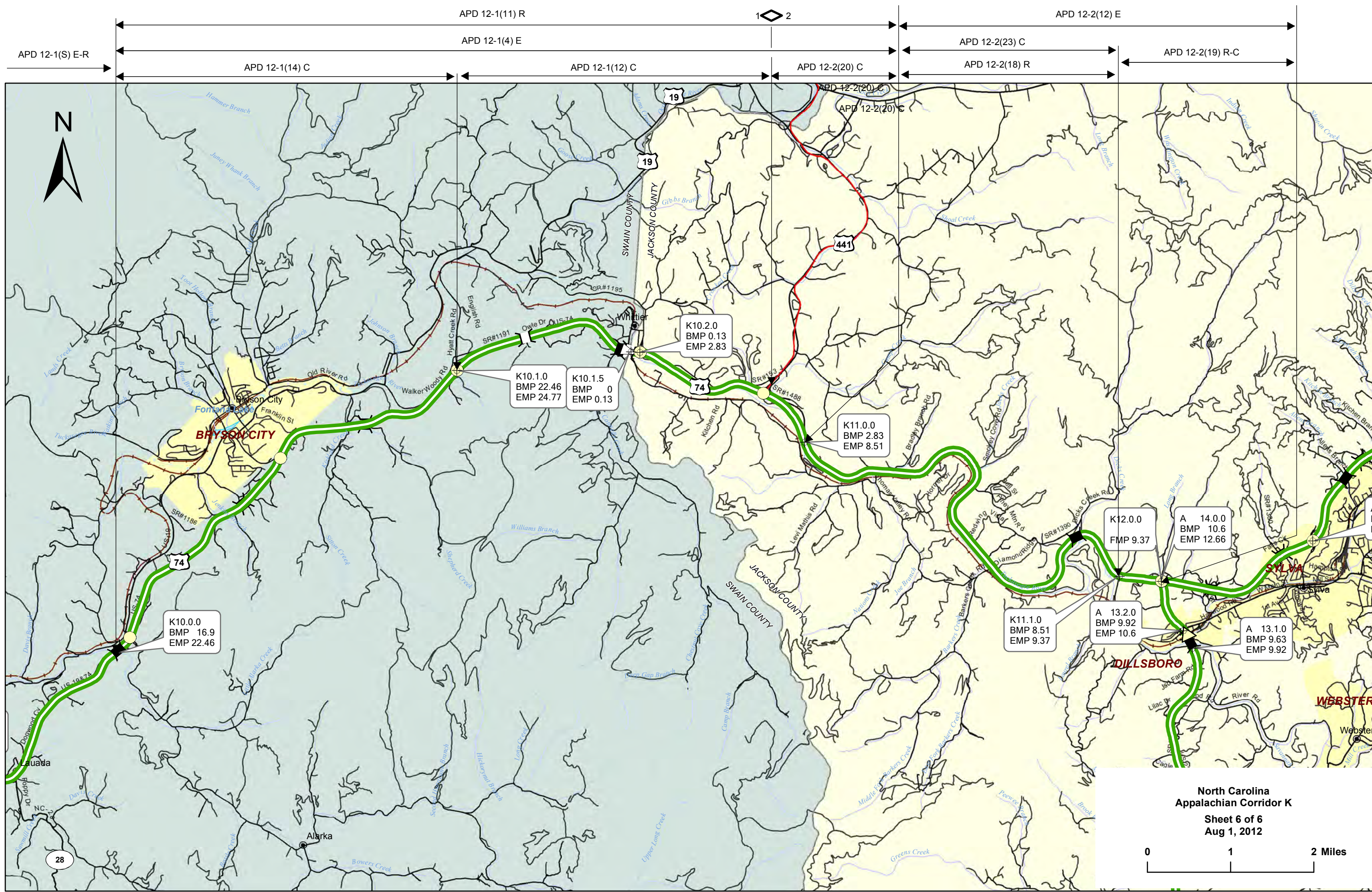
North Carolina
Appalachian Corridor K
Sheet 1 of 6
Aug 1, 2012

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: NC

ADHS Corridor: W

Section ID	W01.0.0	W02.0.0	W02.5.0	W03.0.0	W04.0.0
LRS Milepoint: Beginning/Ending	0.000/1.210	1.210/4.930	4.670/5.590	5.590/8.420	8.420/8.690
Status	NP	Completed	Completed	Final Construction	NP
1. Finance Code	20	20	20	20	20
2. Section Length(Miles)	1.2	3.7	1	2.8	0.3
3. Class/Urban Code	R/0	R/0	R/0	R/0	R/0
4. Location:					
---- a. FIPS State/County/Congressional	37/089/11	37/089/11	37/089/11	37/089/11	37/089/11
---- b. HPMS Route/Subroute	0000020025/00	0000020025/00	0000020025/00	0000020025/00	0000020025/00
---- c. HPMS Signed Route/Strip Map #	0000020025/W1	0000020025/W1	0000020025/W1	0000020025/W1	0000020025/W1
5. Estimate Section/NHS Designation	2/NHS	1/NHS	1/NHS	1/NHS	2/NHS
6. Design Speed(mph)	70	70	70	70	70
7. Traffic:					
---- a. ADT-Base Year (2010)	12,000	14,100	13,100	13,100	13,100
---- b. ADT-Year 2020	16,400	17,100	17,100	17,100	17,100
---- c. Design Year	1,992	1,996	1,996	2,035	2,002
---- d. ADT-Design Year	9,200	9,600	9,600	25,100	13,126
---- e. DHV-Design Year	1,104	864	864	2,800	1,181
---- f. % Truck Design Year(DHV)	6	5	5	10	5
---- g. % Truck Design Year(ADT)	12	9	9	17	9
---- h. Directional Distribution Factor	60	60	60	60	60
8. Number of Lanes to be Constructed this Estimate	0	0	0	0	0
9. Ultimate Number of Through Traffic Lanes	4	4	4	4	4
10. Typical X-Section of Reference/Access Control	A1/Full	A1/Full	A1/Full	A4/Full	A4/Full
11. Right-of-Way Width(ft), prevailing	450	450	450	250	300
12. Median Width(ft), prevailing	68	68	68	36	36
13. Status of Development(Figure 4)	np	1a	1a	3a2	np

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

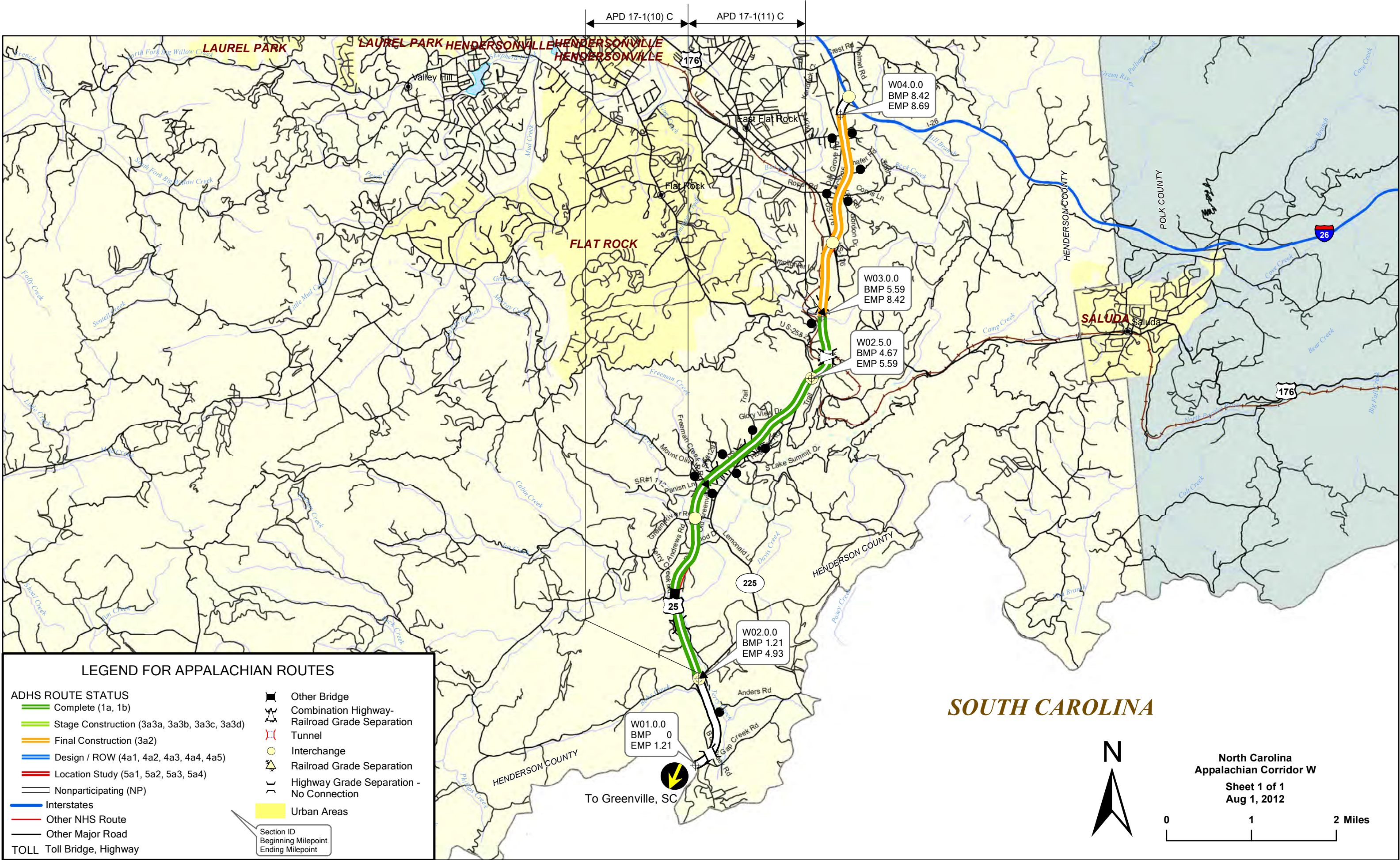
14. Preliminary Engineering:					
---- a. Location	0	0	0	0	0
---- b. Design	0	0	0	0	0
15. Right-of-Way:					
---- a. Acquisition	0	0	0	0	0
---- b. Relocation	0	0	0	0	0
16. Utility Adjustments	0	0	0	0	0
17. Erosion Control/Clear/Grade/Drain/Minor Structure	0	0	0	0	0
18. Subbase, Base, Surfacing, Shoulders	0	0	0	0	0
19. Railroad Grade Separations	0	0	0	0	0
20. Highway Grade Separations without Ramps	0	0	0	0	0
21. Interchanges	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls	0	0	0	0	0
23. Traffic Control	0	0	0	0	0
24. Environmental Mitigation	0	0	0	0	0
25. Roadside Improvements:					
---- a. Landscape Planting	0	0	0	0	0
---- b. Rest Area, Overlooks	0	0	0	0	0
26. All Other Items	0	0	0	0	0
27. Subtotal(lines 17 thru 26)	0	0	0	0	0
28. Construction Engineering(10.00000000% of line 27)	0	0	0	0	0
29. Total Cost of Construction(lines 27 & 28)	0	0	0	0	0
30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)	0	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: NCADHS Corridor: W

Section ID 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)	Corridor Total	Rural Subtotal	Urban Subtotal
	9.00	9.00	0.00
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(10.00000000% of line 27) 29. Total Cost of Construction(lines 27 & 28) 30. Total Estimated Cost(lines 14, 15, 16, 29 & 5% Contingency)			



2012 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of North Carolina

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		A		B		K	
Class: Rural or Urban		Rural	Urban	Rural	Urban	Rural	Urban
Length in miles		7.3	0.0	0.0	0.0	18.8	0.0
Total Mileage (Rural + Urban)		7.3		0.0		18.8	
Work Classification		Estimated Costs (\$1,000)					
14. Preliminary Engineering: a. Location		0	0	0	0	0	0
b. Design		3,924	0	0	0	60,616	0
15. Right-of-Way: a. Acquisition		24,476	0	0	0	40,967	0
b. Relocation		789	0	0	0	2,571	0
16. Utility Adjustments		1,740	0	0	0	3,075	0
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure		9,822	0	0	0	180,662	0
18. Subbase, Base, Surfacing, Shoulders		10,453	0	0	0	34,581	0
19. Railroad Grade Separations		0	0	0	0	0	0
20. Highway Grade Separation without Ramps		0	0	0	0	1,862	0
21. Interchanges		0	0	0	0	0	0
22. Other Bridges, Tunnels, and Walls		3,810	0	0	0	307,090	0
23. Traffic Control		808	0	0	0	4,699	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	5,302	0
26. All Other Items		1,267	0	0	0	26,769	0
27. Subtotal (Lines 17 through 26)		26,160	0	0	0	560,965	0
28. Construction E & C (10.00% of line 27)		2,616	0	0	0	56,097	0
29. Total Cost of Construction (lines 27 and 28)		28,776	0	0	0	617,062	0
30. Total Estimated Cost (lines 14, 15, 16, & 29)		62,690	0	0	0	760,505	0
31. Total Cost (Rural + Urban)		62,690		0		760,505	

2012 Appalachian Development Highway System Cost Estimate

Table C State/Commonwealth of North Carolina

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	W				Subtotal		State Total
Class: Rural or Urban	Rural	Urban	Rural	Urban	Rural	Urban	
Length in miles	0.0	0.0			26.1	0.0	
Total Mileage (Rural + Urban)	0.0						26.1
Work Classification	Estimated Costs (\$1,000)						
14. Preliminary Engineering: a. Location	0	0			0	0	0
b. Design	0	0			64,540	0	64,540
15. Right-of-Way: a. Acquisition	0	0			65,443	0	65,443
b. Relocation	0	0			3,360	0	3,360
16. Utility Adjustments	0	0			4,815	0	4,815
17. Ersn Ctrl/Clear/Grade/Drain/Minor Structure	0	0			190,484	0	190,484
18. Subbase, Base, Surfacing, Shoulders	0	0			45,034	0	45,034
19. Railroad Grade Separations	0	0			0	0	0
20. Highway Grade Separation without Ramps	0	0			1,862	0	1,862
21. Interchanges	0	0			0	0	0
22. Other Bridges, Tunnels, and Walls	0	0			310,900	0	310,900
23. Traffic Control	0	0			5,507	0	5,507
24. Environmental Mitigation	0	0			0	0	0
25. Roadside Improvements: a. Landscape Planting	0	0			0	0	0
b. Rest Areas, Overlooks	0	0			5,302	0	5,302
26. All Other Items	0	0			28,036	0	28,036
27. Subtotal (Lines 17 through 26)	0	0			587,125	0	587,125
28. Construction E & C (10.00% of line 27)	0	0			58,713	0	58,713
29. Total Cost of Construction (lines 27 and 28)	0	0			645,838	0	645,838
30. Total Estimated Cost (lines 14, 15, 16, & 29)	0	0			823,195	0	
31. Total Cost (Rural + Urban)	0						823,195

TABLE D
Prefinanced (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 North Carolina

Appalachian Corridor	Estimate Section (Milepost)	Project Number	Work Class	Rural or Urban	APD Funds	State Funds	Total Cost (\$1,000)
		Totals					

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

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	