8/17/99

REVISIONS

MATCHLINE -L- STA. 312+00 SEE SHEET 4

MATCHLINE -L- STA. 325+00 SEE SHEET 6

BROAD MOUNTAIN II, LLC
DB 7212PG 2422

LYNE REALTY, L.P.
DB 908 PG 302

MARTIN S. WORLEY
DB 595 PG 512

JOAN P. ENSLEY
DB 254 PG 351
DB 300 PG 350
DB 338 PG 648

HIGHLAND HOLDINGS GROUP, LLC
DB 964 PG 245

LOUIS D. WORLEY, ET AL
DB 1051PG 2222

DONALD A. ROBINSON
DB 207 PG 2
DB 254 PG 156
DB 279 PG 675

EVELYN H. WARD
DB 1045 PG 2288

CHARLES J. DAVIS
DB 1045 PG 2285

U.S. PLYWOOD-CHAMPION PAPERS INC.
DB 253 PG 249

ADAM B. KING
DB 815 PG 1138

HARLEY ENTERPRISES, LLC
DB 859 PG 471

NC GRID
NAD 83 NA 2011

-Y1- POT Sta. 3+50.00

-L- S 0° 51' 12.4" W 00+49.93

BEGIN PRECAST ARCH CULVERT (55' SPAN) -Y1- STA. 8+43.00

BEGIN CONSTRUCTION -Y1- STA. 7+00.00

-Y2- POT Sta. 10+00.00= -Y1- POC Sta. 8+10.00

END PROPOSED RETAINING WALL NO. 1 -L- STA. 315+49.35 SEE WALL PLANS

-Y1- TS Sta. 5+91.53

BEGIN PROPOSED RETAINING WALL NO. 2 -L- STA. 316+05.61 SEE WALL PLANS

BEGIN PRECAST ARCH CULVERT (55' SPAN) -L- STA. 315+81.43

END PRECAST ARCH CULVERT (55' SPAN) -L- STA. 316+43.45

SINGLE FACE CONC. BARRIER

PROPOSED RETAINING WALL

-Y1- SC Sta. 7+41.53

-Y2- PC Sta. 14+62.45

END PROPOSED RETAINING WALL NO. 2 & SFCB BEGIN SBG -Y2- STA. 15+73.18

END CONSTRUCTION -Y2- STA. 18+00.00

-L- TS Sta. 313+49.93

-EBL- SC Sta. 13+00.00

-L- SC Sta. 315+74.93

-Y3- POT Sta. 27+07.53 = -Y1- POC Sta. 11+20.00

-Y1- CS Sta. 11+26.27

-Y3- PC Sta. 24+10.02

BEGIN GRADE & PAVING -Y3- STA. 23+00.00

-Y3- PT Sta. 22+41.72

-EBL- TS Sta. 10+00.00

-Y3- FRC Sta. 25+78.10

-Y3- PT Sta. 26+53.85

-Y1- ST Sta. 12+76.27

END PROPOSED RETAINING WALL NO. 3 -L- STA. 316+29.30 SEE WALL PLANS

END PRECAST ARCH CULVERT (55' SPAN) -Y1- STA. 10+42.68

END GRADE & PAVING -Y1- STA. 12+78.00

END CONSTRUCTION -Y1- STA. 14+21.00

END PROPOSED GRADE BEGIN MILLING, RESURFACING, AND WIDENING -EBL- STA. 22+00.00

END PROPOSED WOVEN WIRE FENCE (47") TIE TO EXISTING FENCE -L- STA. 320+40.00

BEGIN PROPOSED WOVEN WIRE FENCE (47") -L- STA. 319+65.00

END PROPOSED WOVEN WIRE FENCE (47") -L- STA. 318+87.00

WIRE FACED REINFORCED SOIL SLOPE

BEGIN PROPOSED RETAINING WALL NO. 1 -L- STA. 314+26.34 SEE WALL PLANS

BEGIN PROPOSED RETAINING WALL NO. 3 -L- STA. 315+84.40 SEE WALL PLANS

BEGIN PROPOSED RETAINING WALL NO. 4 -L- STA. 316+80.23 SEE WALL PLANS

END PROPOSED RETAINING WALL NO. 4 -L- STA. 317+21.14 SEE WALL PLANS

-L- CURVE DATA		-EBL- CURVE DATA	
PIs Sta 314+99.94	PI Sta 325+93.35	PIs Sta 12+00.02	PI Sta 22+13.97
θs = 1° 41' 15.0"	Δ = 29° 51' 28.7" (RT)	θs = 2° 15' 00.0"	Δ = 26° 54' 47.0" (RT)
Ls = 225.00'	D = 1° 30' 00.0"	Ls = 300.00'	D = 1° 30' 00.0"
LT = 150.01'	L = 1,990.53'	LT = 200.02'	L = 1,794.20'
ST = 75.01'	T = 1,018.42'	ST = 100.01'	T = 913.97'
	R = 3,819.72'		R = 3,819.72'
	SE = .06		SE = .06
	DS = 75 MPH		DS = 75 MPH

-Y1- CURVE DATA		-Y2- CURVE DATA	
PIs Sta 6+91.61	PI Sta 9+40.32	PIs Sta 11+76.34	PI Sta 17+51.69
θs = 6° 55' 51.4"	Δ = 35° 33' 16.7" (LT)	θs = 6° 55' 51.4"	Δ = 12° 14' 45.1" (RT)
Ls = 150.00'	D = 9° 14' 28.5"	Ls = 150.00'	D = 2° 07' 30.0"
LT = 100.08'	L = 384.74'	LT = 100.08'	L = 576.28'
ST = 50.07'	T = 198.79'	ST = 50.07'	T = 289.24'
	R = 620.00'		R = 2,696.27'
	SE = .06		SE = .05
	DS = 40 MPH		DS = 60 MPH

-Y3- CURVE DATA		
PI Sta 21+86.00	PI Sta 24+97.38	PI Sta 26+23.05
Δ = 8° 56' 00.0" (LT)	Δ = 38° 31' 13.3" (RT)	Δ = 77° 30' 23.9" (LT)
D = 8° 00' 00.0"	D = 22° 55' 05.9"	D = 10° 18' 50.0"
L = 111.67'	L = 168.08'	L = 75.75'
T = 55.95'	T = 87.35'	T = 44.95'
R = 716.20'	R = 250.00'	R = 56.00'
	SE = .06	SE = .02 (ADVERSE)
	DS = 30 MPH	DS = <15 MPH

PROJECT REFERENCE NO.	SHEET NO.
HB-0002	5

R/W SHEET NO.

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 35016 ENGINEER JONATHAN C. WETHERILL
DocuSigned by: Jonathan C. Wetherill 3/8/2024

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 15833 ENGINEER JERRY L. LINDLEY
DocuSigned by: Jerry L. Lindley 3/8/2024

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

FOR PROFILES, SEE SHEETS: 7 THRU 11

FOR DRAINAGE DETAILS, SEE SHEETS: 2D-1 THRU 2D-9

FOR STRUCTURE DETAILS, SEE SHEETS: S-1 THRU S-5 & W-1 THRU W-4

3/8/2024
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USER: jlindley