

PROJECT: NC 226 WALL,
COXES CREEK, McDOWELL

SITE PLAN



B-1

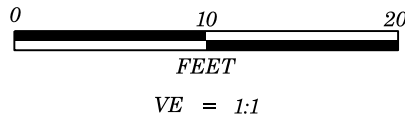
B-2

B-3

B-4

PILES FAILING
LATERALLY

NEW
SCARP



PROJECT REFERENCE NO. SHEET NO.

EXIST. RET. WALL INVESTIGATION
 NC 226, COXES CREEK
 McDOWELL COUNTY

BEGIN EXIST. WALL

MATCH LINE A

B-1

B-2

APPROX. BASE EXIST. WALL

RDWY EMBANKMENT

SAPROLITE

SAPROLITE

BT @ 13.9'
 IN CRYSTALLINE ROCK

BT @ 26.5'
 IN CRYSTALLINE ROCK

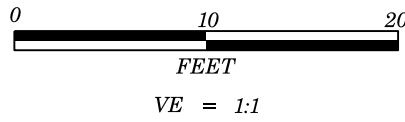
DRILLED ROCK LINE (OFFSET)

INFERRED ROCK LINE

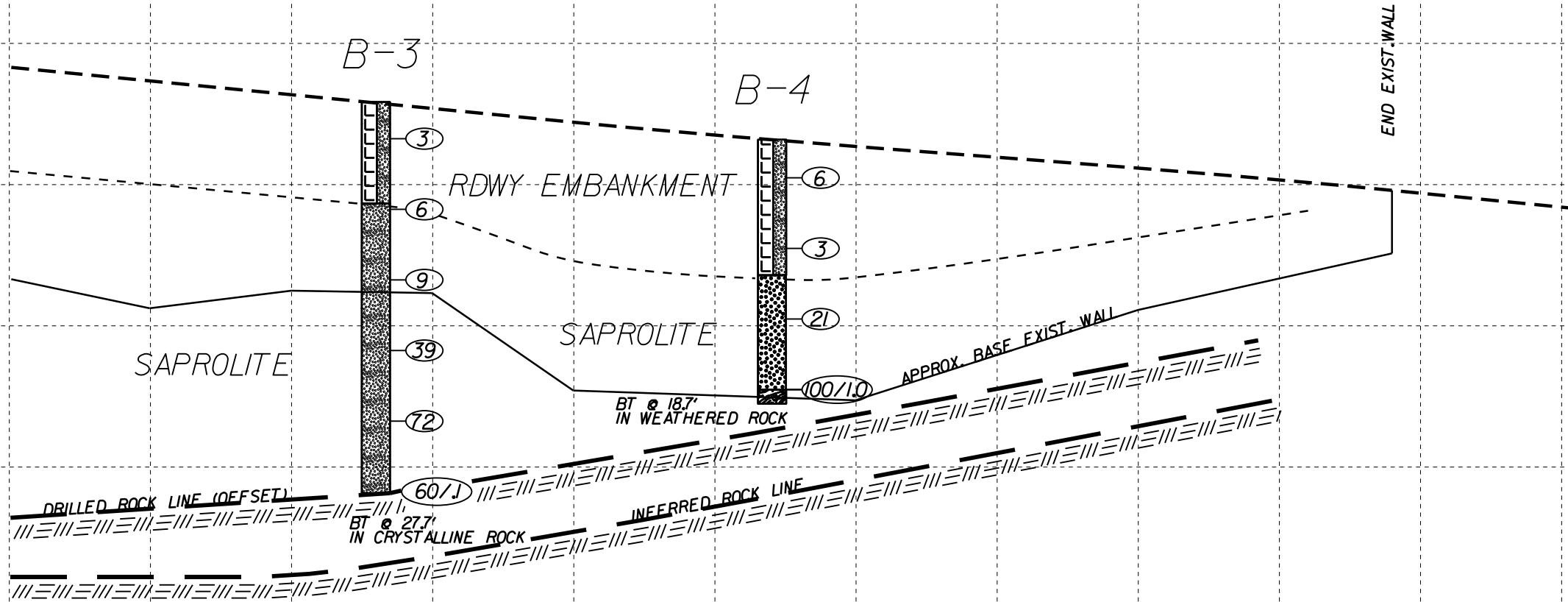
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NOTE: SEE SITE PLAN FOR BORING LOCATIONS.
 BORING LOCATIONS ARE NOT ALONG FACE, ROCK
 LINE IS INFERRED AT THE EXISTING WALL LOCATION

0 10 20 30 40 50 60 70 80 90 100



MATCH LINE A



END EXIST. WALL

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NOTE: SEE SITE PLAN FOR BORING LOCATIONS.
BORING LOCATIONS ARE NOT ALONG FACE, ROCK
LINE IS INFERRED AT THE EXISTING WALL LOCATION

100 110 120 130 140 150 160 170 180 190 200

GEOTECHNICAL BORING REPORT BORE LOG

WBS 13B.105911		TIP 0000		COUNTY McDOWELL		GEOLOGIST Johnson, C. D.										
SITE DESCRIPTION NC-226 RETAINING WALL FAILURE							GROUND WTR (ft)									
BORING NO. B1		STATION N/A		OFFSET N/A		ALIGNMENT N/A										
COLLAR ELEV. N/A		TOTAL DEPTH 13.9 ft		NORTHING 773,527		EASTING 1,097,527										
DRILL RIG/HAMMER EFF./DATE AFO8963 CME-550X 77% 07/31/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Cheek, D. O.		START DATE 08/28/18		COMP. DATE 08/28/18		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
		4.5	1	2	2								M		ROADWAY EMBANKMENT TAN TO LIGHT BROWN, SLIGHTLY MICACEOUS SANDY-SILT	6.7
		9.5	8	8	9								M		SAPROLITE TAN TO LIGHT BROWN, MICACEOUS SANDY-SILT	13.9
															CRYSTALLINE ROCK Boring Terminated BY AUGER REFUSAL at Depth 13.9 ft ON CRYSTALLINE ROCK	

WBS 13B.105911		TIP 0000		COUNTY McDOWELL		GEOLOGIST Johnson, C. D.										
SITE DESCRIPTION NC-226 RETAINING WALL FAILURE							GROUND WTR (ft)									
BORING NO. B2		STATION N/A		OFFSET N/A		ALIGNMENT N/A										
COLLAR ELEV. N/A		TOTAL DEPTH 26.5 ft		NORTHING 773,514		EASTING 1,097,552										
DRILL RIG/HAMMER EFF./DATE AFO8963 CME-550X 77% 07/31/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Cheek, D. O.		START DATE 08/28/18		COMP. DATE 08/28/18		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
		2.6	4	3	4								M		ROADWAY EMBANKMENT TAN TO BROWN, SLIGHTLY MICACEOUS SANDY-SILT, w/ANGULAR COBBLES; GEOTEXTILE FABRIC PRESENT	7.1
		7.6	1	2	3								M		SAPROLITE TAN TO LIGHT BROWN, VERY MICACEOUS SANDY-SILT	13.9
		12.6	2	1	3								M			
		17.6	1	3	4								M			
		22.6	3	3	3								M			
															CRYSTALLINE ROCK Boring Terminated BY AUGER REFUSAL at Depth 26.5 ft ON CRYSTALLINE ROCK	26.5

NCDOT BORE DOUBLE NC226_RET WALL2018_BORELOGS.GPJ NC_DOT.GDT 8/31/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 13B.105911		TIP 0000		COUNTY McDOWELL		GEOLOGIST Johnson, C. D.									
SITE DESCRIPTION NC-226 RETAINING WALL FAILURE							GROUND WTR (ft)								
BORING NO. B3		STATION N/A		OFFSET N/A		ALIGNMENT N/A									
COLLAR ELEV. N/A		TOTAL DEPTH 27.7 ft		NORTHING 773,493		EASTING 1,097,598									
DRILL RIG/HAMMER EFF./DATE AFO8963 CME-550X 77% 07/31/2017			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic									
DRILLER Cheek, D. O.		START DATE 08/28/18		COMP. DATE 08/28/18		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
		2.6	3	1	2										
		7.6	2	3	3										
		12.6	2	4	5										
		17.6	6	13	26										
		22.6	13	38	34										
		27.6	60/0.1												60/0.1
GROUND SURFACE 0.0 ROADWAY EMBANKMENT BROWN-RED-TAN, MICACEOUS CLAYEY SANDY-SILT 7.2 SAPROLITE TAN TO LIGHT BROWN, MICACEOUS SANDY-SILT 9.6 SAPROLITE WHITE ORANGE BROWN, MICACEOUS SILTY-SAND WITH SOME COBBLES 17.7 WEATHERED ROCK TAN TO BROWN, MICACEOUS SANDY-SILT Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Depth 18.7 ft IN WEATHERED ROCK 18.7 CRYSTALLINE ROCK DARK BROWN/RED, MICA SCHIST Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Depth 27.7 ft ON CRYSTALLINE ROCK															

WBS 13B.105911		TIP 0000		COUNTY McDOWELL		GEOLOGIST Johnson, C. D.									
SITE DESCRIPTION NC-226 RETAINING WALL FAILURE							GROUND WTR (ft)								
BORING NO. B4		STATION N/A		OFFSET N/A		ALIGNMENT N/A									
COLLAR ELEV. N/A		TOTAL DEPTH 18.7 ft		NORTHING 773,482		EASTING 1,097,623									
DRILL RIG/HAMMER EFF./DATE AFO8963 CME-550X 77% 07/31/2017			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic									
DRILLER Cheek, D. O.		START DATE 08/28/18		COMP. DATE 08/28/18		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
		2.7	6	3	3										
		7.7	1	1	2										
		12.7	4	8	13										
		17.7	27	73											
GROUND SURFACE 0.0 ROADWAY EMBANKMENT RED-ORANGE TO BROWN, SLIGHTLY MICACEOUS CLAYEY SANDY-SILT 9.6 SAPROLITE WHITE ORANGE BROWN, MICACEOUS SILTY-SAND WITH SOME COBBLES 17.7 WEATHERED ROCK TAN TO BROWN, MICACEOUS SANDY-SILT Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Depth 18.7 ft IN WEATHERED ROCK 18.7															