
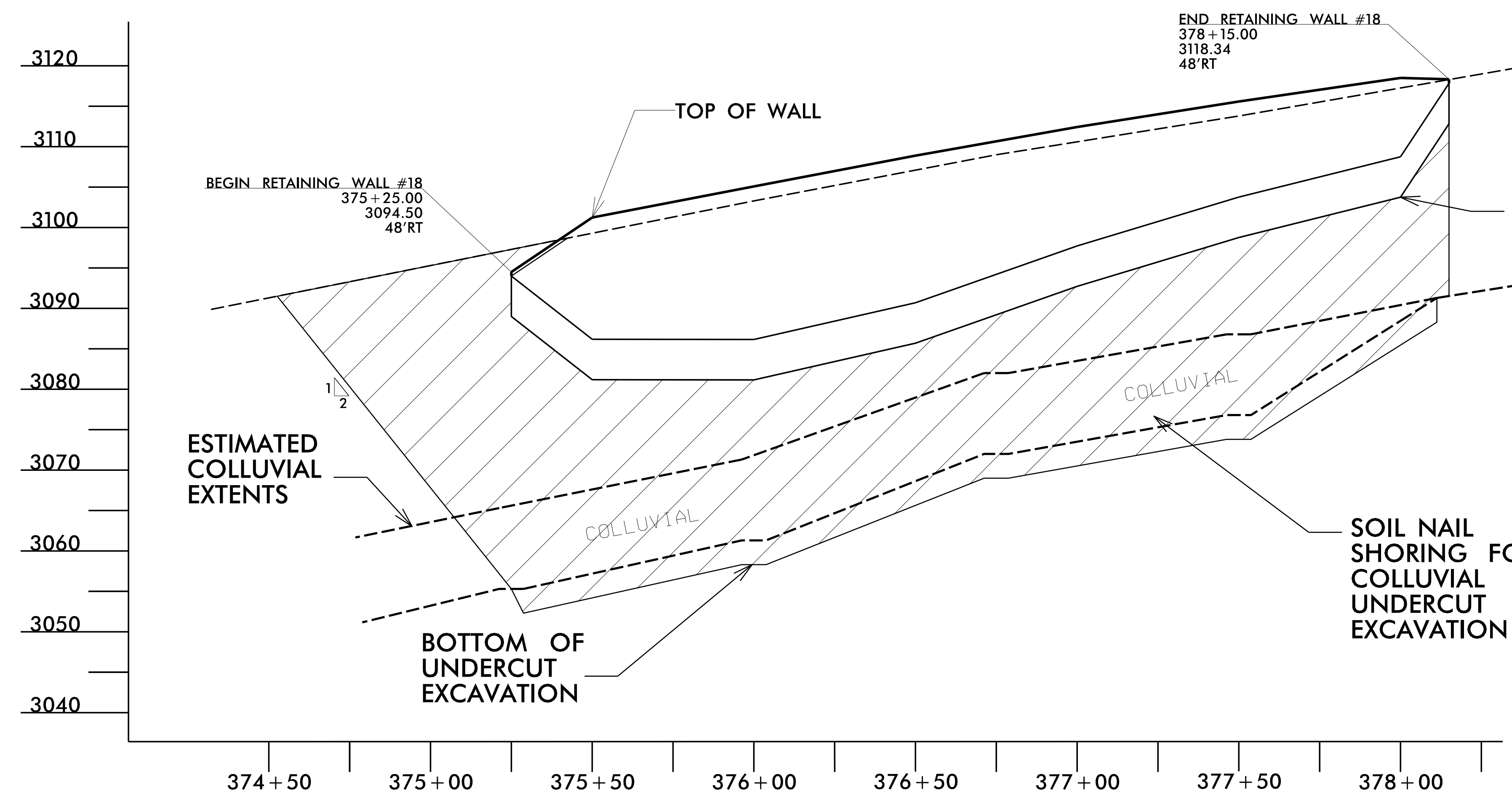


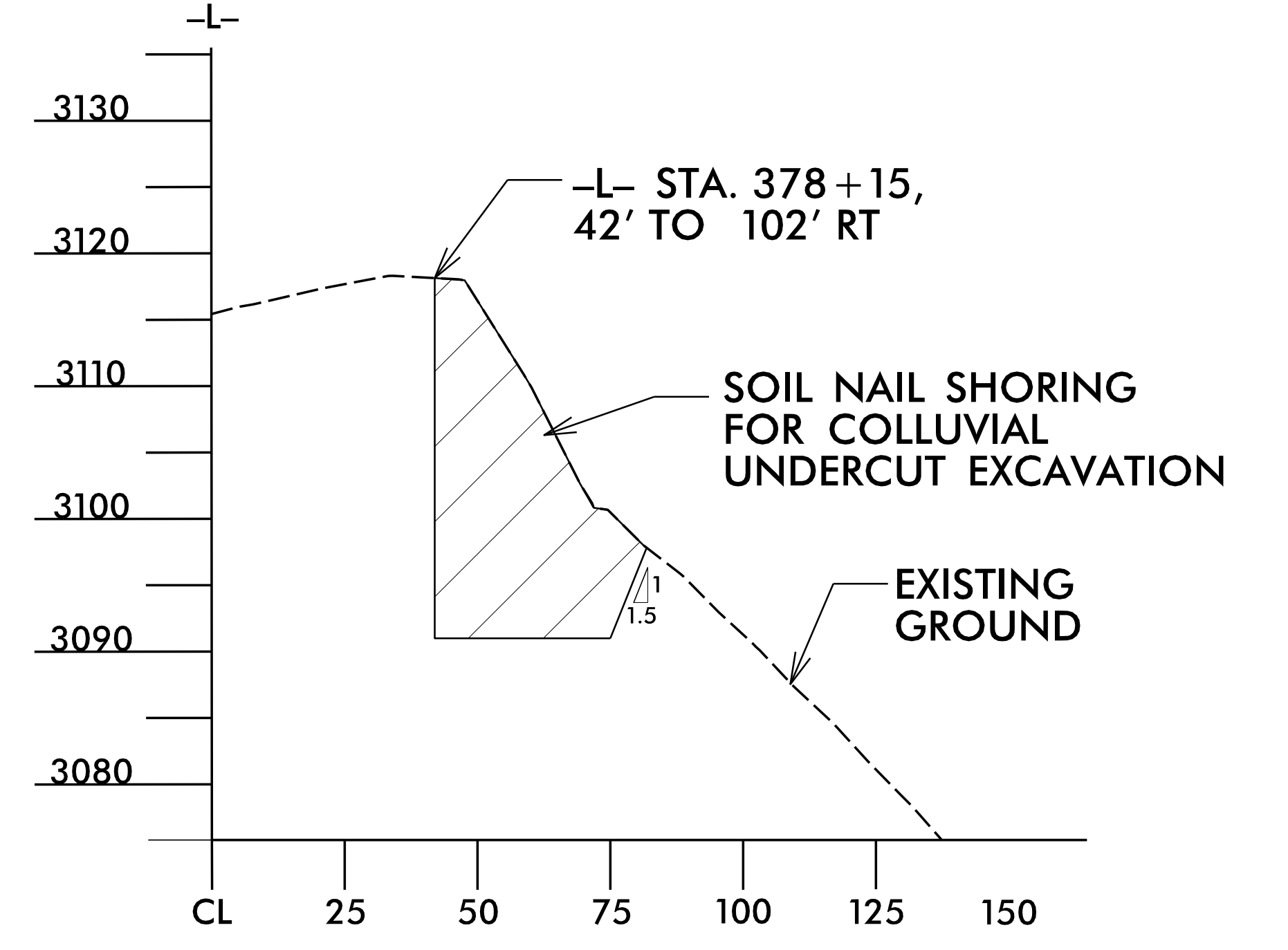
GEOTECHNICAL ENGINEER  SEAL 041986 ENGINEER M. MATTHEW BREWER	ENGINEER  _____ SIGNATURE DATE
DocuSigned by: D. Matthew Brewer 7/15/2022 SIGNATURE DATE	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



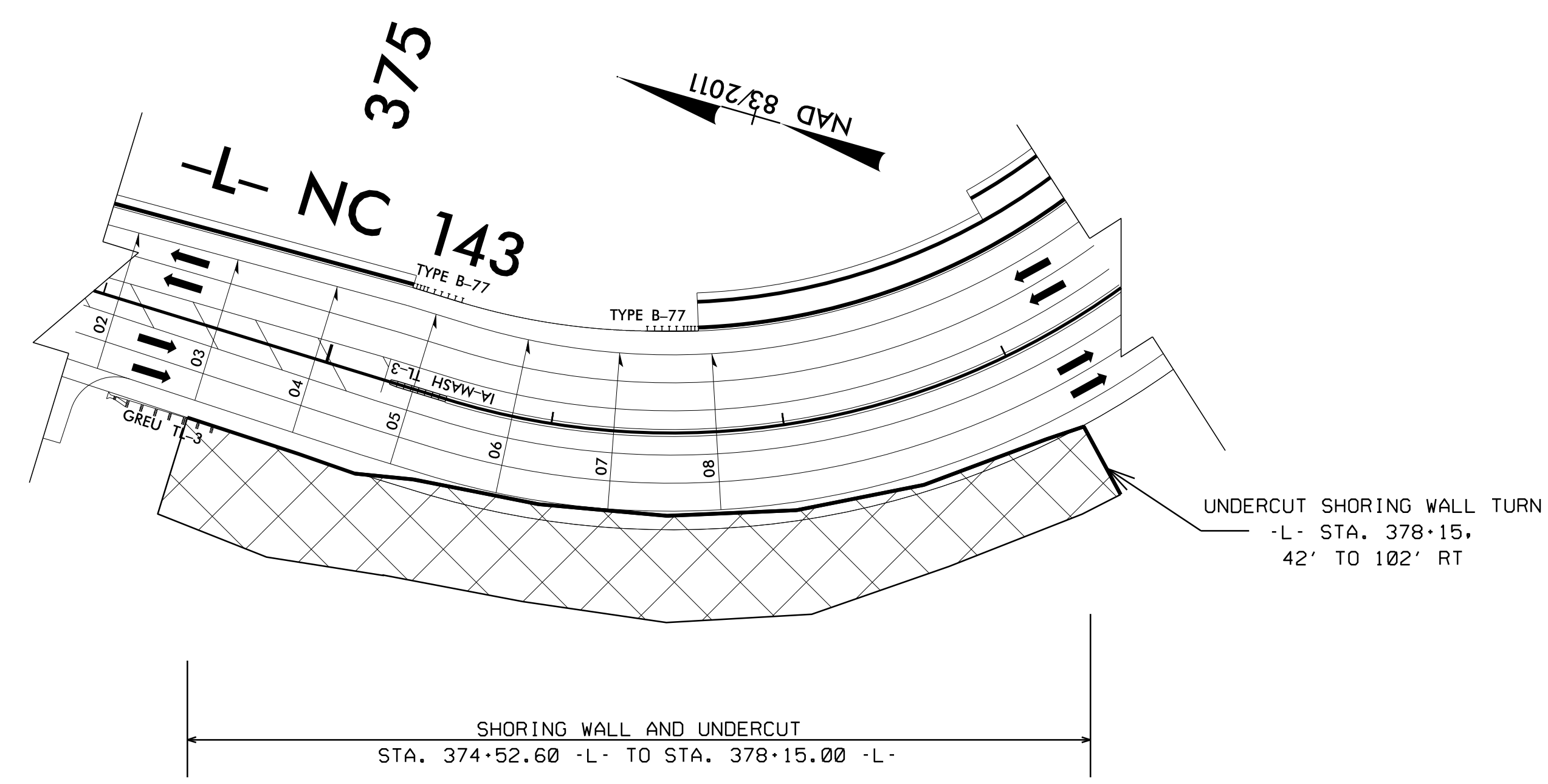
ESTIMATED SOIL NAIL SHORING QUANTITIES			
RETAINING WALL #	SOIL NAIL SHORING (SQ. FEET)	SOIL NAIL VERIFICATION TESTS	SOIL NAIL PROOF TESTS
18	9,000	4	30

ESTIMATED QUANTITIES	
UNDERCUT EXCAVATION	10,200 CY
GEOTEXTILE FOR SOIL STABILIZATION	1,700 SY
SELECT GRANULAR MATERIAL	1,700 CY
SHOULDER DRAIN	750 LF
CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	5 EA

APPROXIMATE ENVELOPE - SHORING FOR UNDERCUT  
 NOT TO SCALE  
 (LOOKING AT WALL FACE)



APPROXIMATE CROSS SECTION  
 SOIL NAIL SHORING FOR UNDERCUT - SHORING TURN  
 NOT TO SCALE  
 (LOOKING AT SOIL NAIL SHORING FACE)



PROJECT NO.: A-0009CB  
 GRAHAM COUNTY  
 STATION: -L-375+25, 48' RT TO 378+15, 48' RT  
 SHEET 5 OF 6

Prepared in the Office of:



**CAROLINAS GEOTECHNICAL GROUP**  
 2400 CROWNPOINT EXECUTIVE DRIVE  
 SUITE 800  
 CHARLOTTE, NC 28227  
 (980) 339-8684

REVISIONS						SHEET NO. W18-5
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			

PREPARED BY: DMB	DATE: 7/14/2022
REVIEWED BY: REK	DATE: 7/14/2022