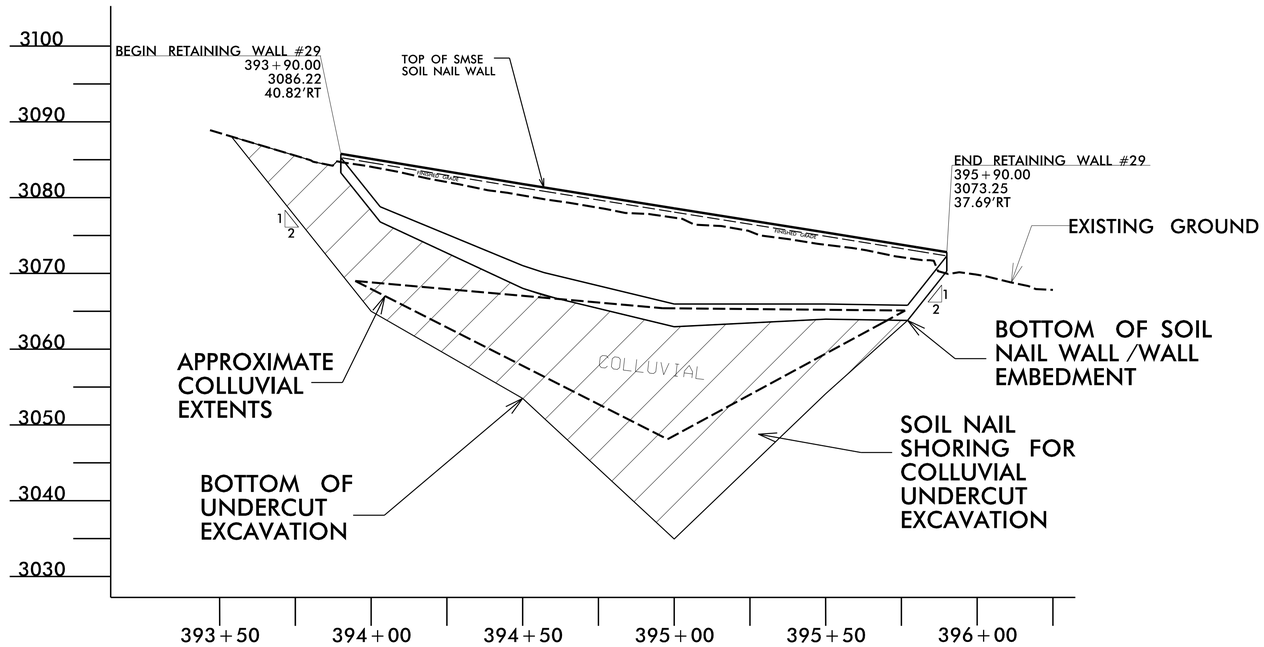
DocuSign Envelope ID: E72669C5-9BCD-4EDC-B626-D62462232A7F

GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041986 ENGINEER D. MATTHEW BREWER DocuSigned by: D. Matthew Brewer 386129C0A4C1462... SIGNATURE DATE 7/15/2022	SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

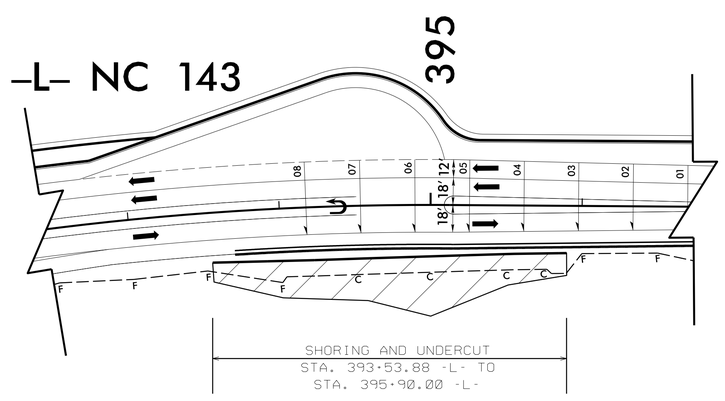


APPROXIMATE ENVELOPE - SHORING FOR UNDERCUT

NOT TO SCALE
(LOOKING AT WALL FACE)

ESTIMATED SOIL NAIL WALL QUANTITIES			
RETAINING WALL #	SOIL NAIL SHORING (SQUARE FEET)	SOIL NAIL VERIFICATION TESTS	SOIL NAIL PROOF TESTS
29	3,200	3	11

ESTIMATED QUANTITIES - RETAINING WALL #29	
UNDERCUT EXCAVATION	3,400 CY
GEOTEXTILE FOR SOIL STABILIZATION	730 SY
SELECT GRANULAR MATERIAL	730 CY
SHOULDER DRAIN	500 LF
CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	3 EA



SHORING AND UNDERCUT LIMITS SKETCH

SCALE: 50' = 1"

PROJECT NO.: A-0009CB

GRAHAM COUNTY

RETAINING WALL #28 STATION: -L-389+25, 47' RT TO 392+00, 39' RT

RETAINING WALL #29 STATION: -L- 393+90, 40' RT TO 395+90, 37' RT

SHEET 9 OF 10

Prepared in the Office of:

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

RETAINING WALL #28 AND #29
SOIL NAIL SHORING FOR
UNDERCUT EXCAVATION

REVISIONS							
NO.	BY	DATE	NO.	BY	DATE	SHEET NO.
1			3			W28_29 -9
2			4			

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