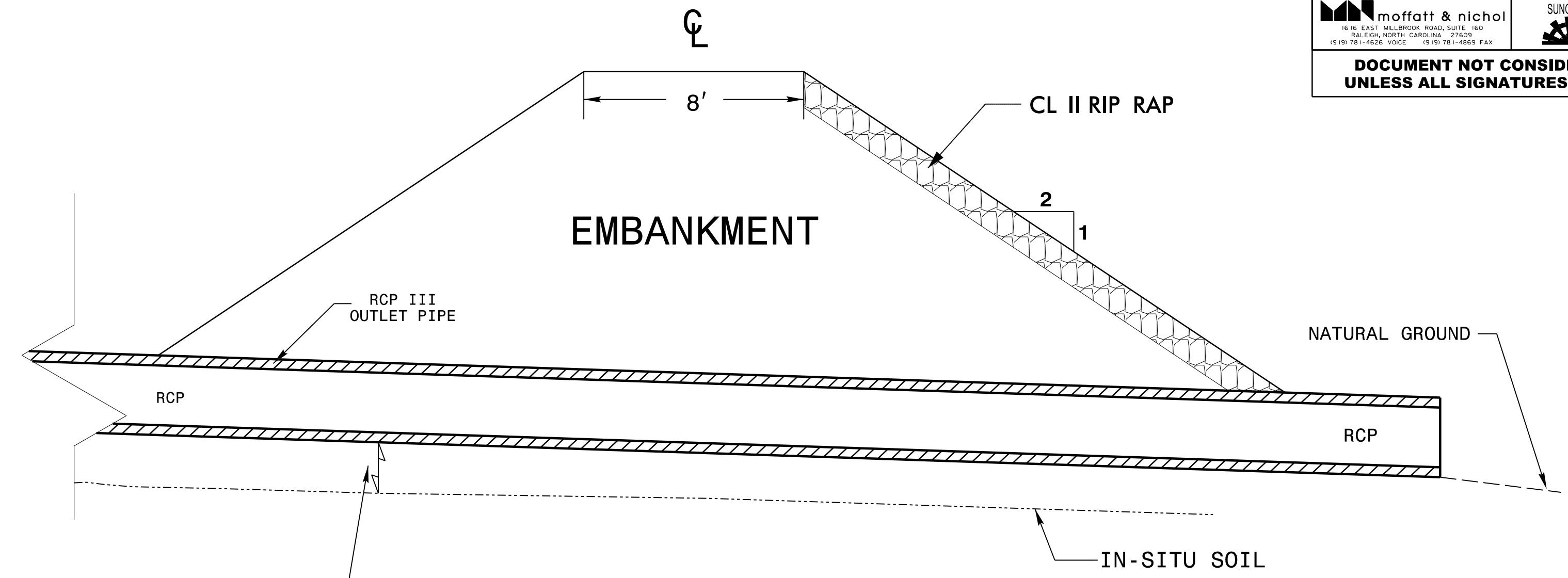
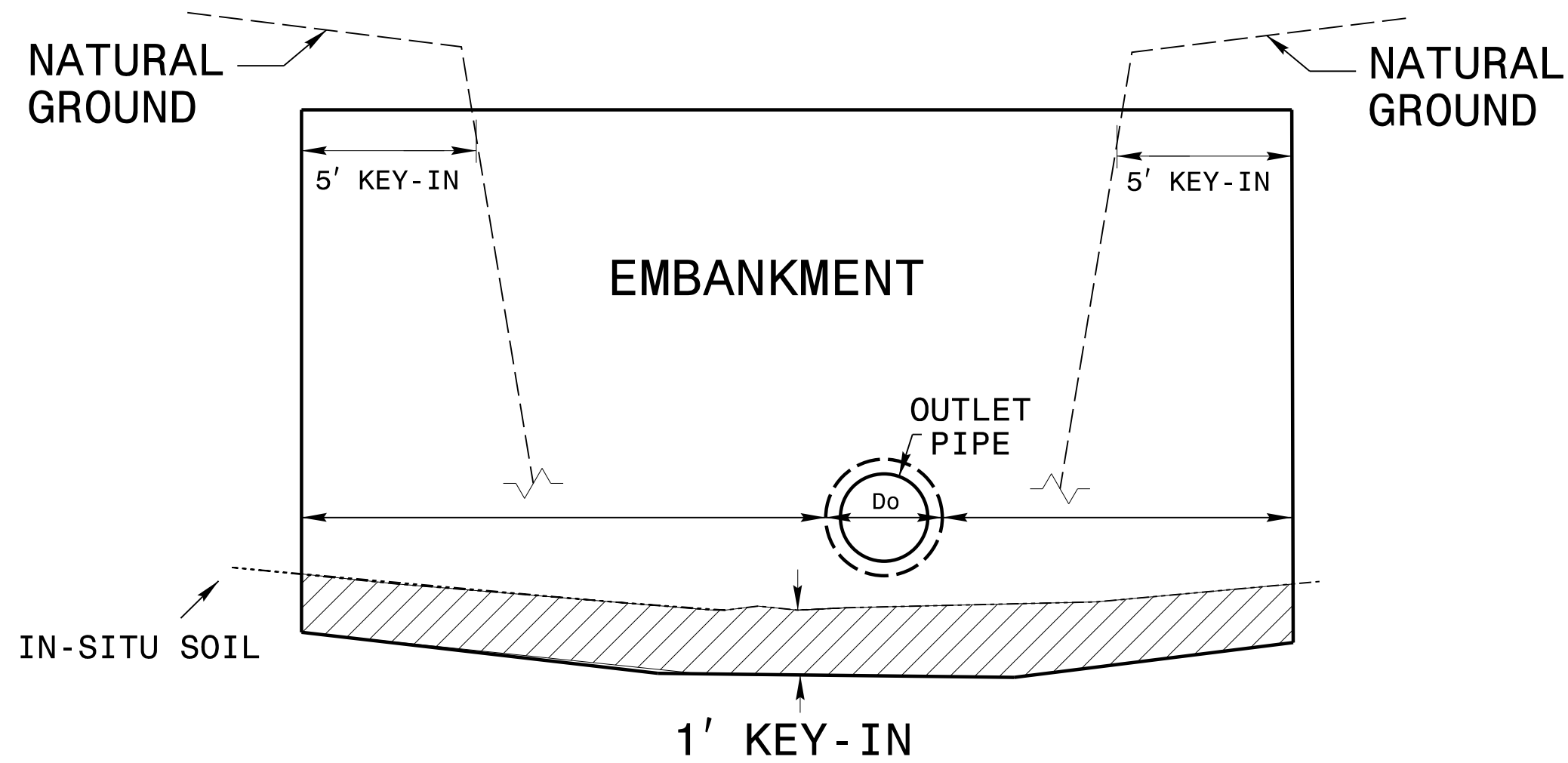


DETAIL #49

HAZARDOUS SPILL BASIN EMBANKMENT AND LINER (NOT TO SCALE)

PROJECT REFERENCE NO. R-2707C	SHEET NO. 2D-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
 1418 E. 84th MILBORO RD. SUITE 100 WAKEFORD, NORTH CAROLINA 27883 (919) 781-4626 VOICE (919) 781-4868 FAX	
 1120 W. HARRIS RD. SUITE 100 WAKEFORD, NORTH CAROLINA 27883 (919) 781-4626 VOICE (919) 781-4868 FAX	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ELEVATION VIEW



SECTION VIEW

EMBANKMENT NOTES

- EMBANKMENT TO CONSIST OF A-5, A-6 OR A-7 NATURAL SOILS.
- KEY IN EMBANKMENT A MINIMUM OF 1' INTO IN-SITU SOIL FOUNDATION.

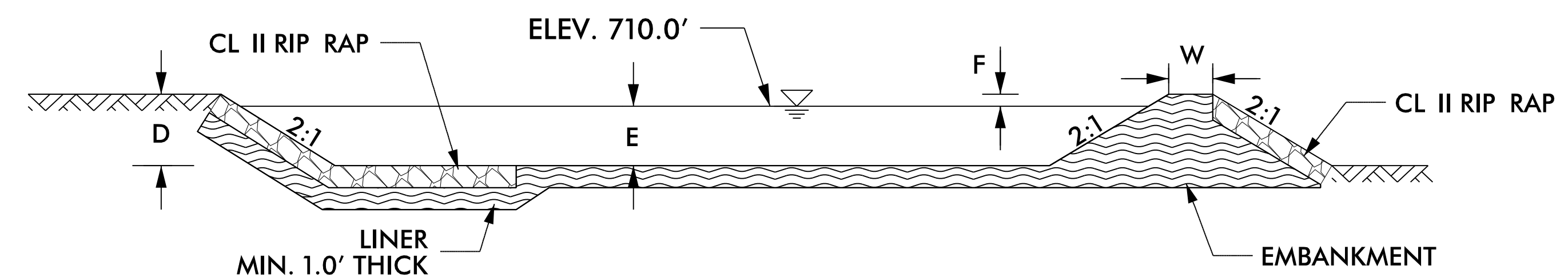
LINER FOR BASIN BOTTOM

- LINER TO CONSIST OF A-5, A-6 OR A-7 NATURAL SOILS.
- LINER MINIMUM 1.0 THICK.

GENERAL NOTES

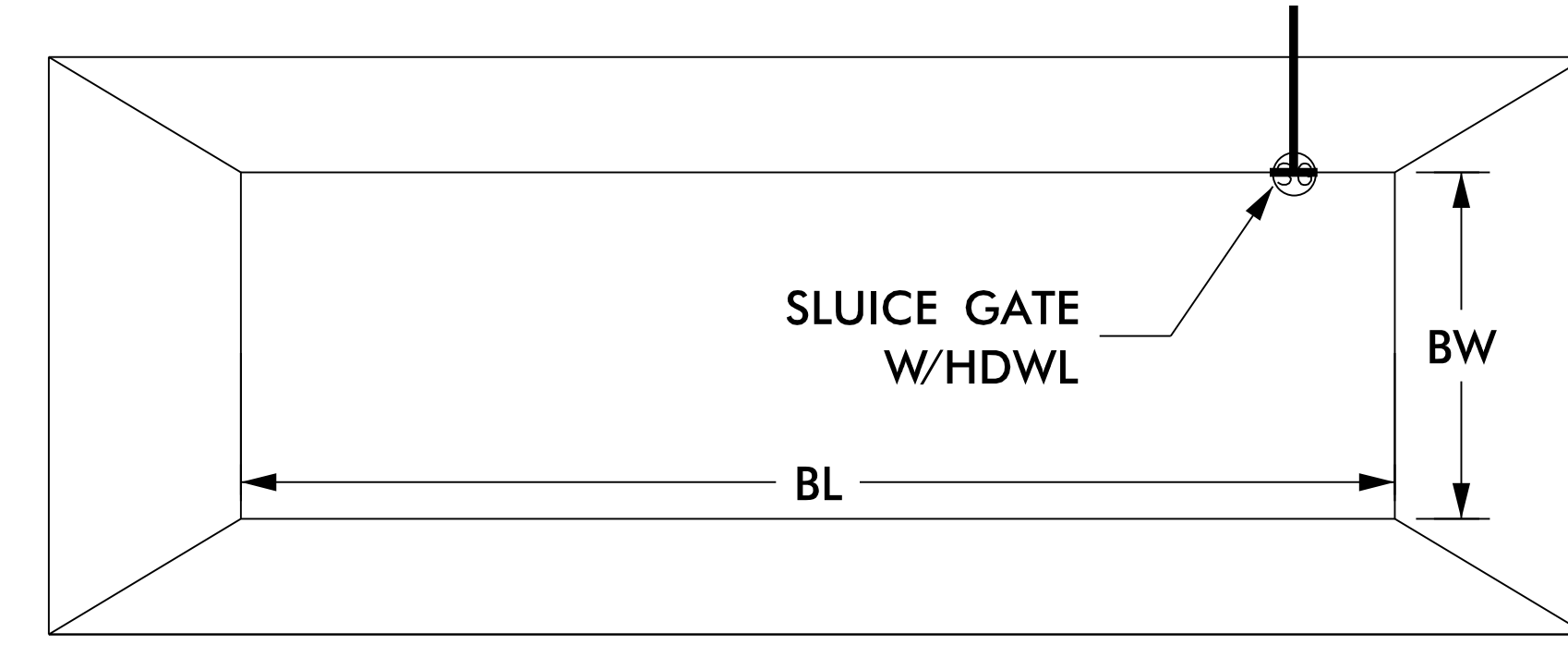
- COMPACT BASIN EMBANKMENT AND LINER ACCORDING TO SECTION 235 OF STANDARD SPECS.

TOTAL CAPACITY REQUIRED: 516 CY
TOTAL CAPACITY PROVIDED: 517 CY
@ ELEV. 710.0 w/1.0 FT. FREEBOARD



DIMENSIONS

BASIN NO.	PROJECT STATION	DEPTH (D)	BERM WIDTH (W)	BERM ELEV.	BOTTOM LENGTH (BL)	BOTTOM WIDTH (BW)	BOTTOM ELEV.	DESIGN DEPTH (E)	FREE-BOARD (F)
1	-L- 386+00 (RT)	4.0'	8.0'	711.0'	113'	33'	707.0'	3.0'	1.0'



MODEL 20-10C SLUICE GATE

NOTES:

- SHAPE OF BASIN MAY VARY DEPENDING ON SITE CONSTRAINTS.
- ACCESS BERM SHOULD BE PROVIDED FOR MAINTENANCE.
- RIP-RAP EXTENDS 20' BEYOND PIPE AT BASIN INLET(SEE PLANS)
- MINIMUM SLOPE OF THE BOTTOM OF THE BASIN SHOULD BE 0.3%.