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WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Liscense No. F-0377
Bus: 919 851 8077
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

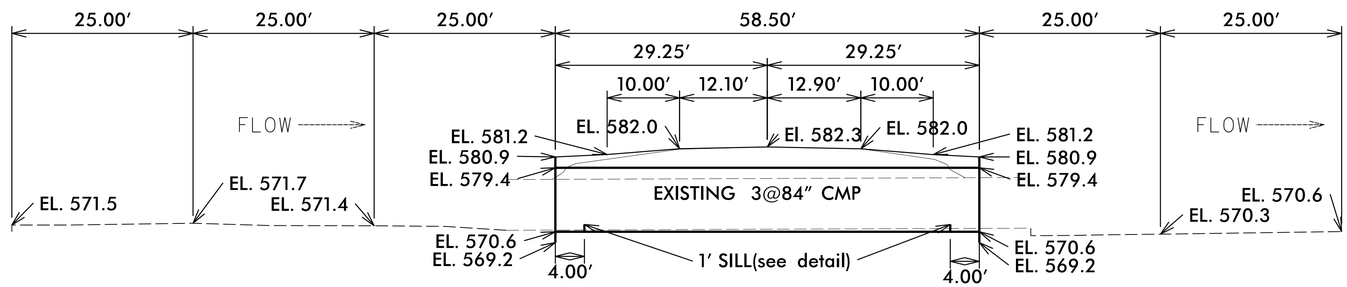
PROJECT REFERENCE NO.	SHEET NO.
5B.2073|4.4	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER 1/23/2023 — NORTH CAROLINA PROFESSIONAL SEAL 018981 ENGINEER R. MURPHY

HYDRAULICS ENGINEER 1/24/2023 — NORTH CAROLINA PROFESSIONAL SEAL 15833 ENGINEER JERRY L. LINDSEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

LUCY GARRETT ROAD (SR 1703)



22'-9" x 8'-10" ABC w/HDWLL
90 DEGREE SKEW

PROPOSED ELEVATIONS:
CENTERLIINE ROADWAY OVER PIPE
ELEVATION = 582.30

INLET:

TOP OF HEADWALL = 580.90
TOP OF PIPE = 579.40
STREAM BED = 571.2
INVERT PIPE = 570.57

OUTLET:

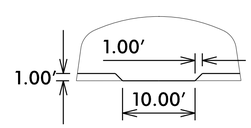
TOP OF HEADWALL = 580.90
TOP OF PIPE = 579.40
STREAM BED = 570.1
INVERT PIPE = 570.57

CENTERLINE LENGTH = 58'-6" OF 22'-9" X 8'-10"
CORRUGATED ALLUMINUM BOX CULVERT

TWO 49'-6" WIDE BY 11'-8" TALL FULLY WELDED
STRUCTURAL ALUMINUM STRUCTURAL PLATE HEADWALLS
W/2 SECTIONS OF 22'-9" X 8'-10" ABC
PLATE STUBBED OUT, WHICH SHALL BE FULLY WELDED
TO ALUMINUM STRUCTURAL PLATE HEADWALL.

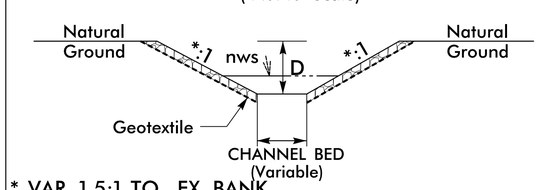
MINIMUM COVER = 1.5' AT HEADWALL;
1.8' AT SHOULDER POINT.
MAXIMUM COVER OVER PIPE = 2.8' AT CL

Note: Inverts shown are based on existing pipe inverts due to presence of rock at site. Every effort shall be made during installation to bury invert 1' and still provide sufficient bedding beneath pipe. Rock may be encountered.



SILL TYPICAL DETAIL
INLET & OUTLET

PIPE INLET/OUTLET DETAIL
(Not to Scale)



* VAR. 1.5:1 TO EX. BANK
Min. D = TOP OF BANK
Type of Liner = CLASS II Rip-Rap

REVISIONS

8/17/99

1/23/2023
5B.2073|4.4_Lucy Garret Rd._rdy_psh 5.dgn
USER:RSKEANEY