

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SS-8-046(019)105	50	1

HYDRAULIC DATA FOR SS-8-046(019)105 (A)									
STATION	EXISTING PIPE	PROPOSED PIPE SIZE	DRAINAGE AREA (ACRES)	25-YEAR DATA				100-YEAR DATA	
				DESIGN DISCHARGE (CFS)	DESIGN HEADWATER (FT)	DESIGN VELOCITY (FPS)	DESIGN STAGE (NAVD 88)	100-YEAR DISCHARGE (CFS)	100-YEAR STAGE (NAVD 88)
5594+30	24"x56' RCP	24"	33.8	8.6	1.55	5.20	1028.67	15.5	1029.37
5614+31	36"x128' RCP	36" (B)	359.7	59.0	4.15	10.13	998.01	102.1	1002.31
5630+73	18"x76' RCP	24" (C)	10.6	6.6	1.24	9.91	1007.21	11.2	1007.68
5637+53	72"x66' RCP	72" (B)	1261.0	143.6	4.67	9.23	984.68	247.7	986.73

- (A) Hydraulic data provided is for smooth-walled (Manning's n=0.012) type conduits.
 (B) Culvert has been sunk based on 2017 Nationwide Permit Regional Conditions.
 (C) Culvert diameter given at this location is the NDDOT Policy minimum diameter and exceeds hydraulic requirements.

This document
is preliminary
and not for
construction or
implementation
purposes.

Culvert Hydraulic Data

ND 46
E Jct ND 18 to Old US 81