Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. — Friday, Dec 13 2019

12-INCH HDPE TRENCH DRAIN PIPE

Rectangular

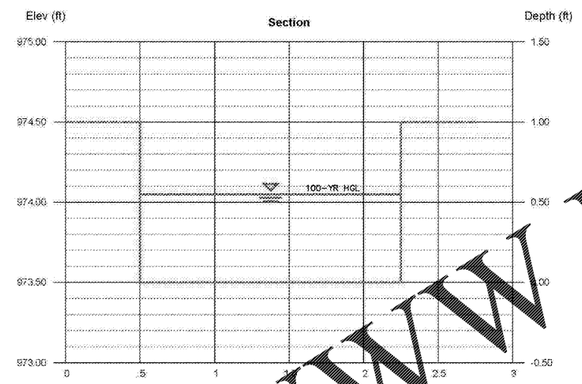
Bottom Width (ft)	= 1.75
Total Depth (ft)	= 1.00
Invert Elev (ft)	= 973.50
Slope (%)	= 0.50
N-Value	= 0.013

Calculations

Compute by:	Known Q
Known Q (cfs)	= 3.73

Highlighted

Depth (ft)	= 0.55
Q (cfs)	= 3.730
Area (sqft)	= 0.96
Velocity (ft/s)	= 3.88
Wetted Perim (ft)	= 2.85
Crit Depth, Yc (ft)	= 0.53
Top Width (ft)	= 1.75
EGL (ft)	= 0.78



Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. — Friday, Dec 13 2019

12-INCH HDPE TRENCH DRAIN PIPE

Circular

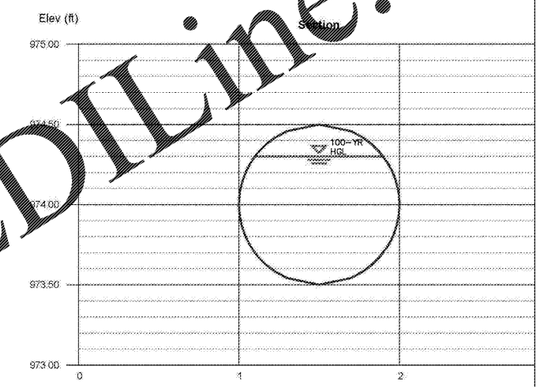
Diameter (ft)	= 1.00
Invert Elev (ft)	= 973.50
Slope (%)	= 1.00
N-Value	= 0.012

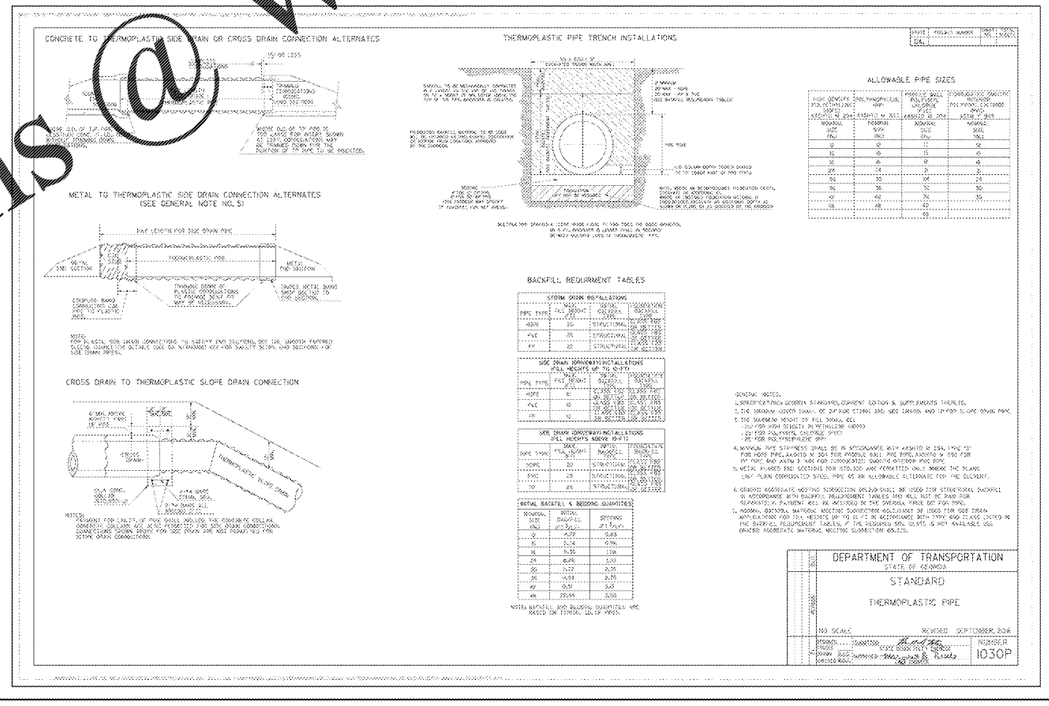
Calculations

Compute by:	Known Q
Known Q (cfs)	= 3.73

Highlighted

Depth (ft)	= 0.80
Q (cfs)	= 3.730
Area (sqft)	= 0.67
Velocity (ft/s)	= 5.54
Wetted Perim (ft)	= 2.22
Crit Depth, Yc (ft)	= 0.83
Top Width (ft)	= 0.80
EGL (ft)	= 1.28





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GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Jun 02, 2020

AUTHORIZED

CDP2019-00130

REV.	DATE	DESCRIPTION

GEORGIA REGISTERED PROFESSIONAL ENGINEER MICHAEL G. FORLAW

THE SOUTHEAST CIVIL GROUP
ENGINEERING • CONSULTING
6665 BALDWIN PARKWAY
DOUGLASVILLE, GEORGIA 30134
PHONE: 678-309-6595
EMAIL: DESK@SECGROUP.COM

JOB #: 181101

SCALE: N.T.S.

DATE:

DESIGN BY:

STORM DRAINAGE DETAILS

SHEET:

CD-2.1