

Intesa (Centric)

2014 Northeast Ohio Regional Sewer District
Grants Program Doan Brook Green
Infrastructure Grants

University Circle,
Cleveland, Ohio
Cuyahoga County

GPD PROJECT NO. 2014231.00

Due Date: October 1, 2014
Information updated May 16, 2016

Project Managers:
University Circle Inc.
Graig Kluge, JD
10831 Magnolia Drive
Cleveland, Ohio 44106

Prepared by:
GPD Group
Architects-Engineers-Planners
5595 Transportation Blvd.
Suite 100
Cleveland, Ohio 44125
Phone: 216-518-5544
Fax: 216-518-5545



**2014 NORTHEAST OHIO REGIONAL SEWER DISTRICT GRANTS PROGRAM
DOAN BROOK GREEN INFRASTRUCTURE GRANTS
(information updated 5-16-16)**

Application

Name of Project: Intesa (nka – Centric)

Community: University Circle Inc., City of Cleveland

Project Manager: University Circle Inc. (Graig Kluge, JD)

Mailing Address: 10831 Magnolia Drive, Cleveland, Ohio 44106

Phone Number: 216.791.8060

Email: gkluge@universitycircle.org

Location of Proposed Project (address): Corner of Mayfield Road and E 117th Street, at Parking Lot #45
University Circle Inc, Cleveland, Ohio, just west of the railroad tracks

Parcel(s) Number: 120-29-014,018,047,048-051, 120-30-119

Current Drainage Area of Project Site (sq. ft.): 98,885+ sq.ft. (2.27+ acres) manages captured area which is able to be directed to the detention storage tank, additional surface areas 10,000 sq.ft. is expected be captured along the new street into tree planters; [total possible area including roadways which will be considers if programing and funds allow for modifications 148,540 sq. ft. (3.41 acres)]

SCM(s) to be Implemented (list all types): Design intends to utilize an enhanced Bioretention area(Focal Point) which will drain into an Extended Underground Detention chambers with isolator rows to manage water quality and detention volumes, a weather forecasting Automated Gate Valve outlet control (OptiRTC) with rainwater harvesting capabilities; street tree planters with stormwater storage; an optional strip of permeable pavers along the access drive; optional infiltration sewer trenches along E116th if improvements are required; an optional green wall on the south wall of the garage; and an optional use of ABS Osorb if a condition is discovered for it's use.

Approximate Square Footage of SCM(s): all approx. 800 sq.ft. Bioretention; 10,000 cu.ft. detention; 2,400 sq.ft. street tree planters; 220 sq.ft. optional pervious pavers; 200 lf optional infiltration sewer trench; and varies multiple locations throughout project improvements

DrainageArea Impacted by the SCM(s) (sq. ft.) 108,900+ sq. ft. (2.5+ acres) of area into the noted controls; [128,066
GIG 2014

**2014 NORTHEAST OHIO REGIONAL SEWER DISTRICT GRANTS PROGRAM
DOAN BROOK GREEN INFRASTRUCTURE GRANTS
(information updated 5-16-16)**

sq. ft. (2.94 acres) total including roadways if possible as noted] _____

Impervious Area to be
Managed by the SCM(s) (sq. ft.)

_____ 87,120+ sq.ft. (2.0+ acres) of area into noted controls; [122,404 sq. ft.
(2.81 acres) total including roadways if possible as noted] _____

Gallons of Stormwater Controlled
and/or removed from Combined
Sewer System by the SCM(s):

_____ approx. 2.85 to 3.27 million gallons per year _____

Project Start Date:

_____ July, 2016 – Groundbreaking _____

Project End Date:

_____ July, 2018 – Grand Opening _____

Estimated Total Project Cost:

_____ \$600,000 for SCMs _____

Value of Match:

_____ \$237,000 for SCMs _____

Amount Requested:

_____ \$363,000 for SCMs _____

**2014 NORTHEAST OHIO REGIONAL SEWER DISTRICT GRANTS PROGRAM
GREEN INFRASTRUCTURE GRANTS FOR THE COMBINED SEWER AREA**

GIG Project Budget

GIG Project Income	Anticipated (include date)	Committed as of 8/31/14	Total	Line Item Description
Northeast Ohio Regional Sewer District	1/1/2015 \$363,000		\$363,000	
Foundations				
Government Grants or Contracts				
Organizational Budget (i.e.: individual contributions, fundraising events/products, membership/fees/earned income, endowed income)				
In-kind Support		\$237,000	\$237,000	
Other				
TOTAL	\$363,000	\$237,000	\$600,000	

GIG Project Expenses	Northeast Ohio Regional Sewer District Request	In-kind Funding	Total	Line Item Description
Professional Services	\$42,675	\$7,000	\$49,675	
Labor	\$93,750	\$68,250	\$162,000	
Materials	\$187,500	\$136,500	\$324,000	
Equipment Rental	\$31,250	\$22,750	\$54,000	
Plants	\$7,825	\$2,500	\$7,825	
Other				
TOTAL	\$363,000	\$237,000	\$600,000	

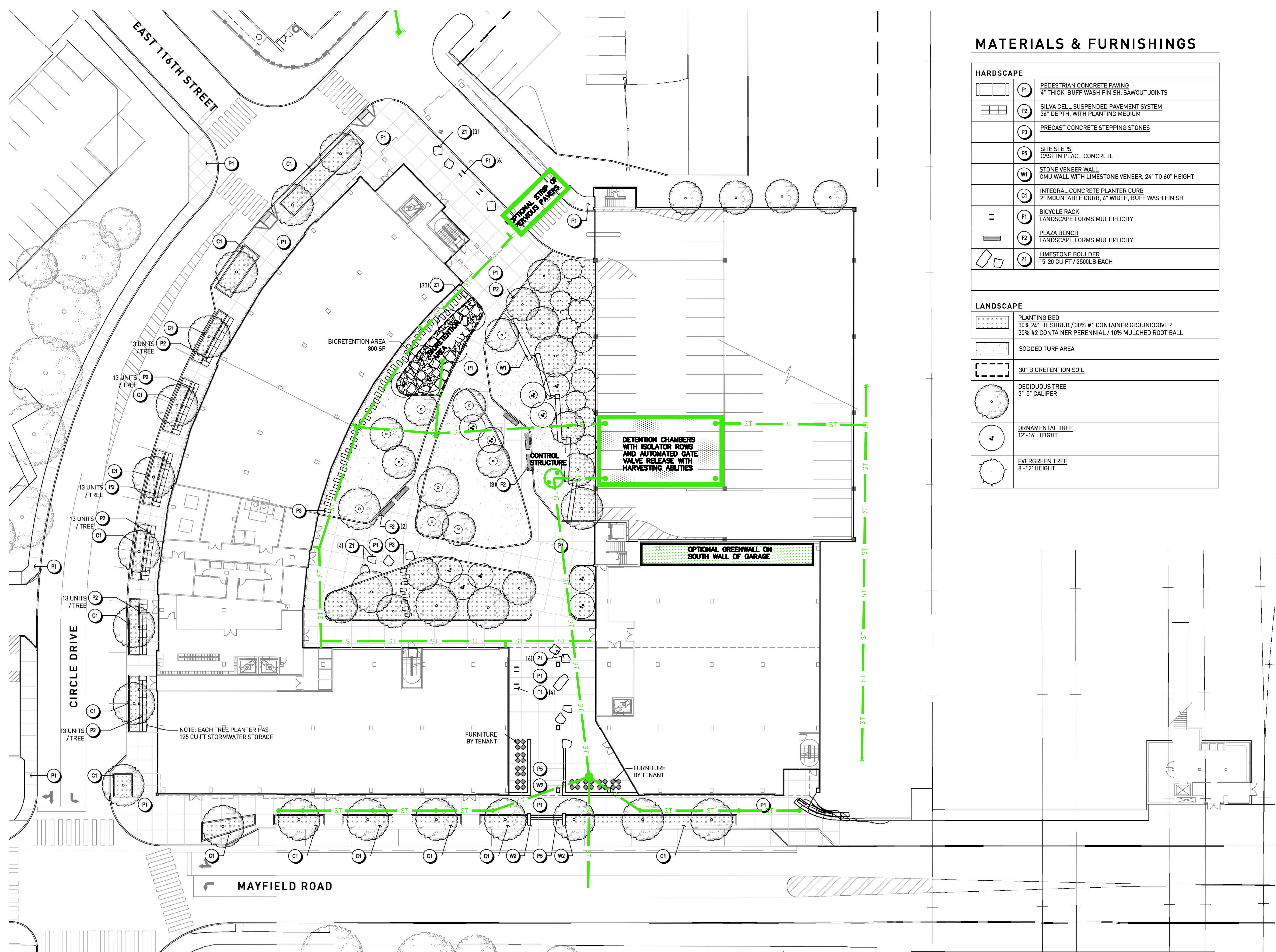
MATERIALS & FURNISHINGS

HARDSCAPE

	P1	PEDESTRIAN CONCRETE PAVING 4" THICK, BUFF WASH FINISH, SAWCUT JOINTS
	P2	SILVA CELL SUSPENDED PAVEMENT SYSTEM 36" DEPTH, WITH PLANTING MEDIUM
	P3	PRECAST CONCRETE STEPPING STONES
	P5	SITE STEPS CAST IN PLACE CONCRETE
	W1	STONE VENEER WALL CMU WALL WITH LIMESTONE VENEER, 24" TO 60" HEIGHT
	C1	INTEGRAL CONCRETE PLANTER CURB 2" MOUNTABLE CURB, 6" WIDTH, BUFF WASH FINISH
	F1	BICYCLE RACK LANDSCAPE FORMS MULTIPLICITY
	F2	PLAZA BENCH LANDSCAPE FORMS MULTIPLICITY
	Z1	LIMESTONE BOULDER 15-20 CU FT / 2500LB EACH

LANDSCAPE

	PLANTING BED 30% 24" HT SHRUB / 30% #1 CONTAINER GROUNDCOVER 30% #2 CONTAINER PERENNIAL / 10% MULCHED ROOT BALL
	SODDED TURF AREA
	30" BIORETENTION SOIL
	DECIDUOUS TREE 3"-5" CALIPER
	ORNAMENTAL TREE 12'-16" HEIGHT
	EVERGREEN TREE 8'-12" HEIGHT

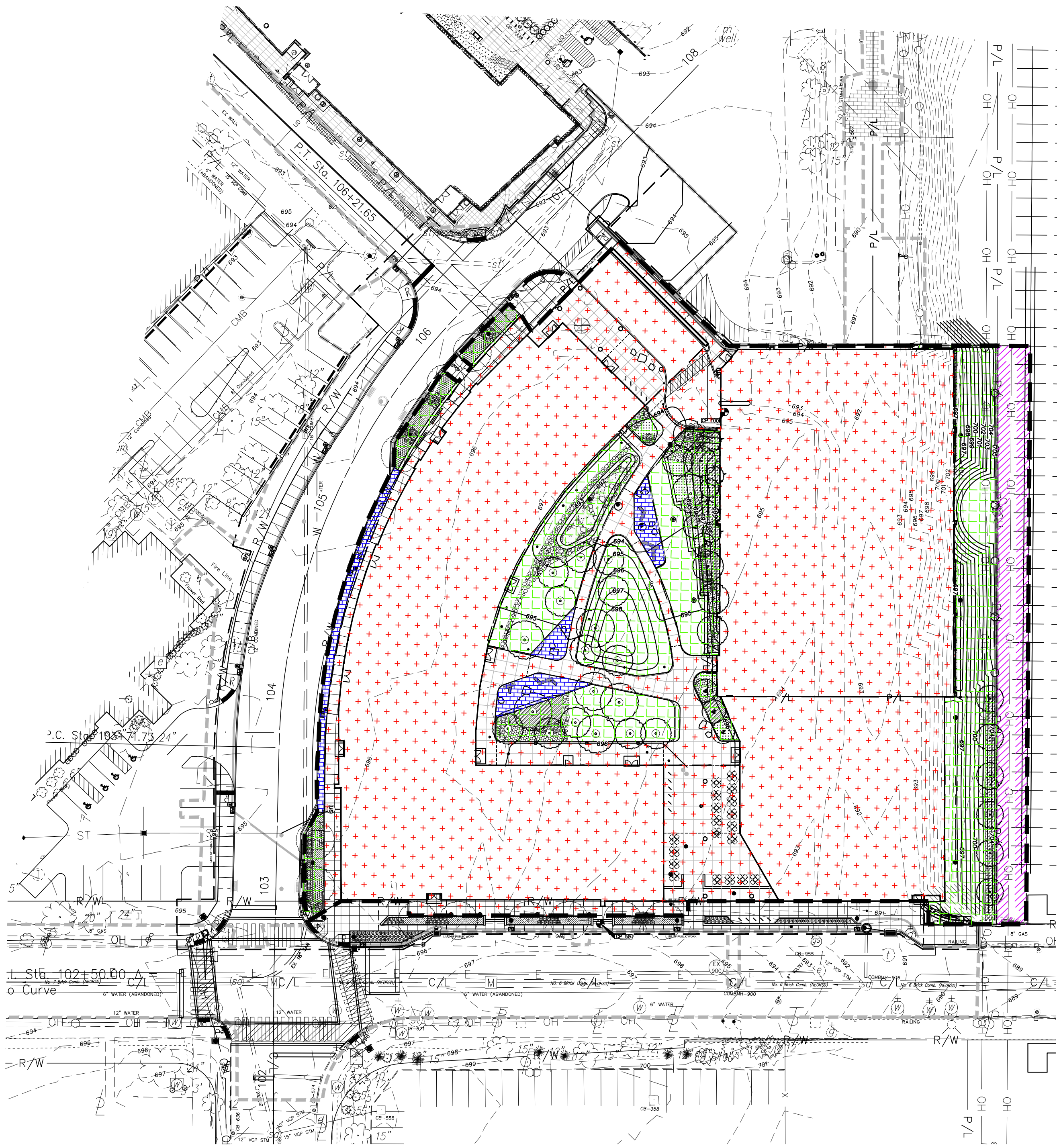


Drawing Name: O:\2014\2014231 Inresa\01 Midwest Inresa\dwg\Site CDs\201423101 CDs.dwg
 February 24, 2017 12:56 PM - kbukowski

O:\2014\2014231 Inresa\01 Midwest Inresa\dwg\Site CDs\201423101 CDs.dwg, 2/24/2017 12:56:25 PM, 1:1

IMPERVIOUS AREA A=1.88 CN=98	PERVIOUS PVMT AREA A=0.00AC NONPREFORM	TOTAL AREA A=2.46AC CN=92
PERVIOUS AREA A=0.47AC CN=69	GRAVEL AREA A=0.11AC CN=91	

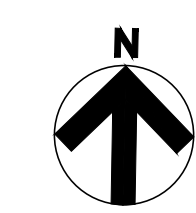
WITHIN PUBLIC ROADWAY AREA	AREA TO BIOMET. A=0.37AC CN=77
AREA TO STREET, PLANTERS A=0.12 CN=86	AREA TO DET. A=2.31AC CN=92
AREA TO EXISTING ADJACENT SYSTEM A=0.03AC CN=98	



POST-IMPERVIOUS AND PERVIOUS AREAS



POST-BMP DETENTION AREAS



REV.	DATE	DESCRIPTION
08.08.16		AGENCY COMMENTS
08.11.16		ADDENDUM #1
08.17.16		CITY COMMENT
09.07.16		CLIENT REVISIONS
9.21.16		AGENCY COMMENTS
11.18.16		CITY COMMENTS
12.02.16		GARAGE AND ROADWAY UPDATES
12.08.16		TITLE SHEET UPDATE
2.21.17	2.8.17	GARAGE DRIVE UPDATE & COORDINATION

CENTRIC
 UNIVERSITY CIRCLE
 CLEVELAND, OHIO

DRAINAGE MAP
PROPOSED CONDITIONS

ISSUED FOR:	
PERMIT	-
BID	-
CONSTRUCTION	-
RECORD	-
PROJECT MANAGER	DESIGNER
KB	LAH

JOB NO.
2014231.01

DR-2

National Stormwater Calculator Report

Site Description

Centric

Parameter	Current Scenario	Baseline Scenario
Site Area (acres)	2.5	
Hydrologic Soil Group	C	
Hydraulic Conductivity (in/hr)	.05	
Surface Slope (%)	2	
Precip. Data Source	CLEVELAND WSFO AP	
Evap. Data Source	CLEVELAND WSFO AP	
Climate Change Scenario	None	
% Forest	0	
% Meadow	0	
% Lawn	20	
% Desert	0	
% Impervious	80	
Years Analyzed	10	
Ignore Consecutive Wet Days	False	
Wet Day Threshold (inches)	0.10	

LID Control	Current Scenario	Baseline Scenario
Disconnection	0	
Rain Harvesting	0	
Rain Gardens	7 / 5	
Green Roofs	0	
Street Planters	1 / 6	
Infiltration Basins	0	
Porous Pavement	0	

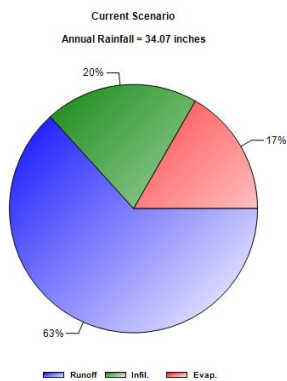
% of impervious area treated / % of treated area used for LID

National Stormwater Calculator Report

Summary Results

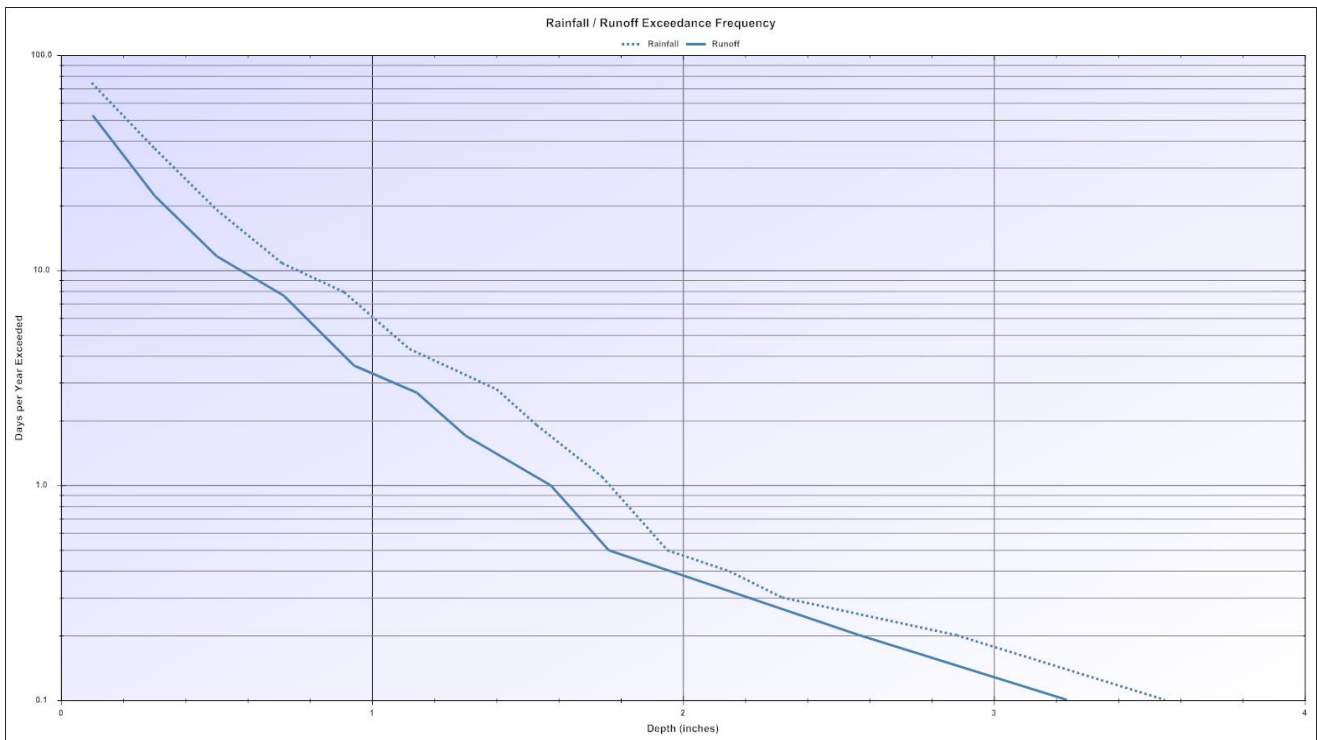
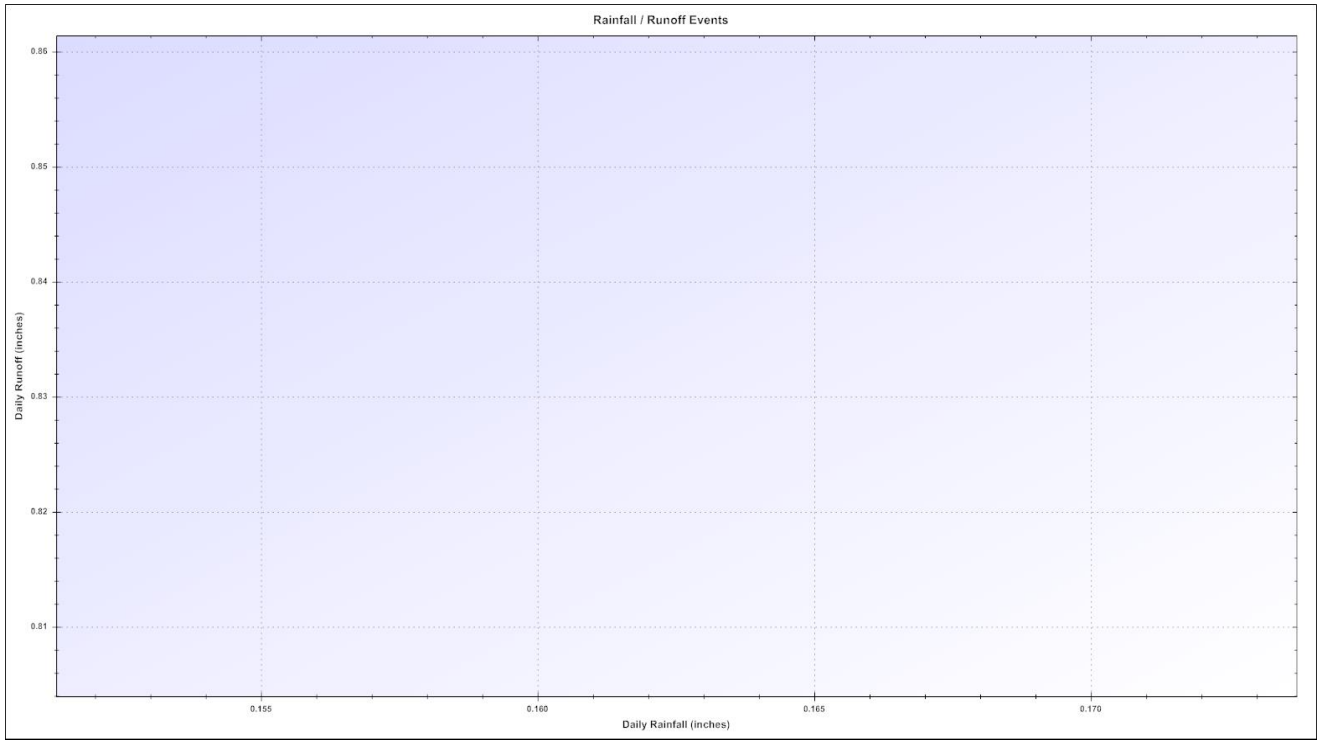
Centric

Statistic	Current Scenario	Baseline Scenario
Average Annual Rainfall (inches)	34.07	
Average Annual Runoff (inches)	21.63	
Days per Year With Rainfall	74.36	
Days per Year with Runoff	52.77	
Percent of Wet Days Retained	29.03	
Smallest Rainfall w/ Runoff (inches)	0.15	
Largest Rainfall w/o Runoff (inches)	0.24	
Max. Rainfall Retained (inches)	0.50	



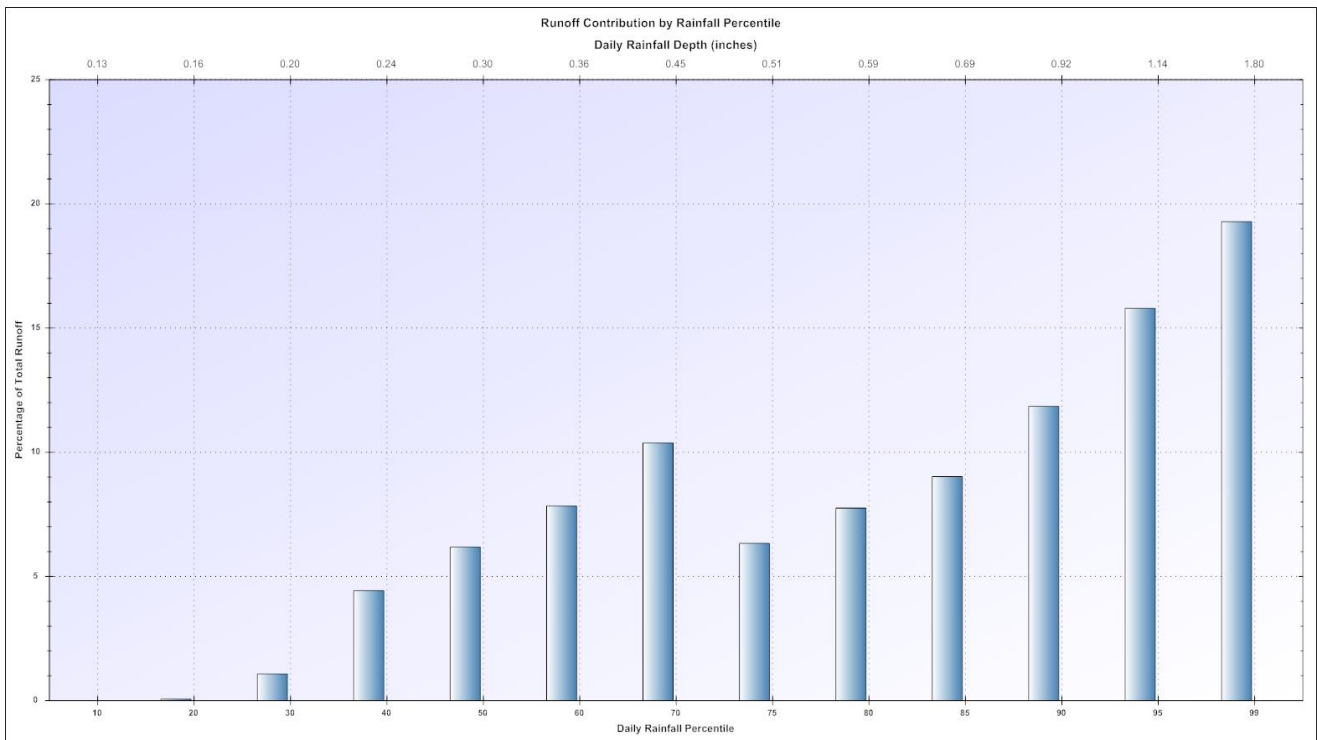
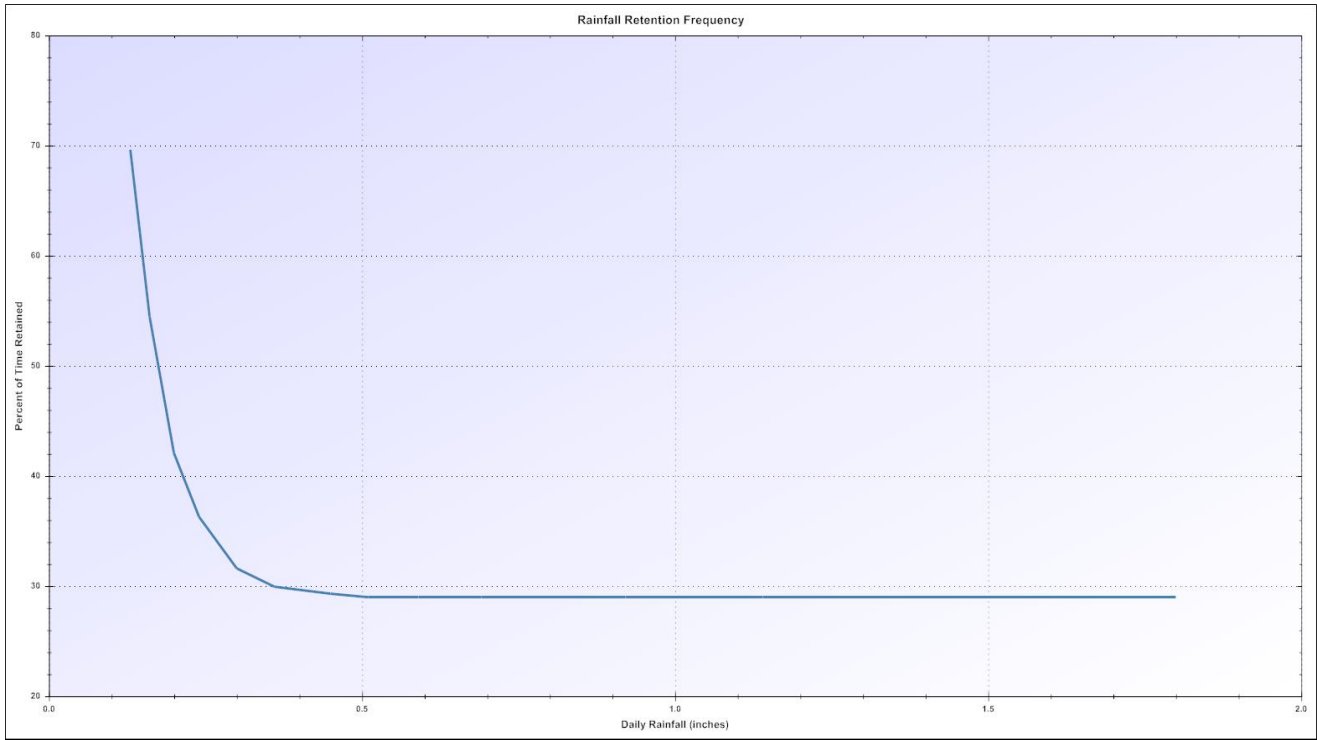
National Stormwater Calculator Report

Centric



National Stormwater Calculator Report

Centric



National Stormwater Calculator Report

Centric

