INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT APPLICATION

STORMWATER CALCULATIONS AND DOCUMENTATION REPORT

for

Pasco County Sheriff Complex

(Section 15, Township 25 South, Range 18 East)

Prepared for:

Pasco County Facilities Management
7220 Osteen Rd.
New Port Richey, FL 34653

Prepared by:

Coastal Design Consultants, Inc.
7026 Little Road
New Port Richey, FL 34654

Coastal No. 24016

PASCO COUNTY SHERIFF COMPLEX
STORMWATER CALCULATION AND DOCUMENTATION REPORT

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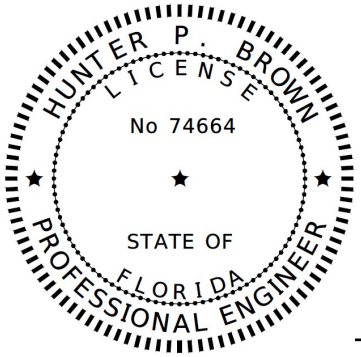
Coastal Project No. 24016



Hunter P. Brown, P.E.
Florida Engineer's No. 74664
C.A. No. 00009572

Hunter P Brown
Digitally signed by Hunter P Brown
Date: 2025.09.25 10:06:09 -04'00'

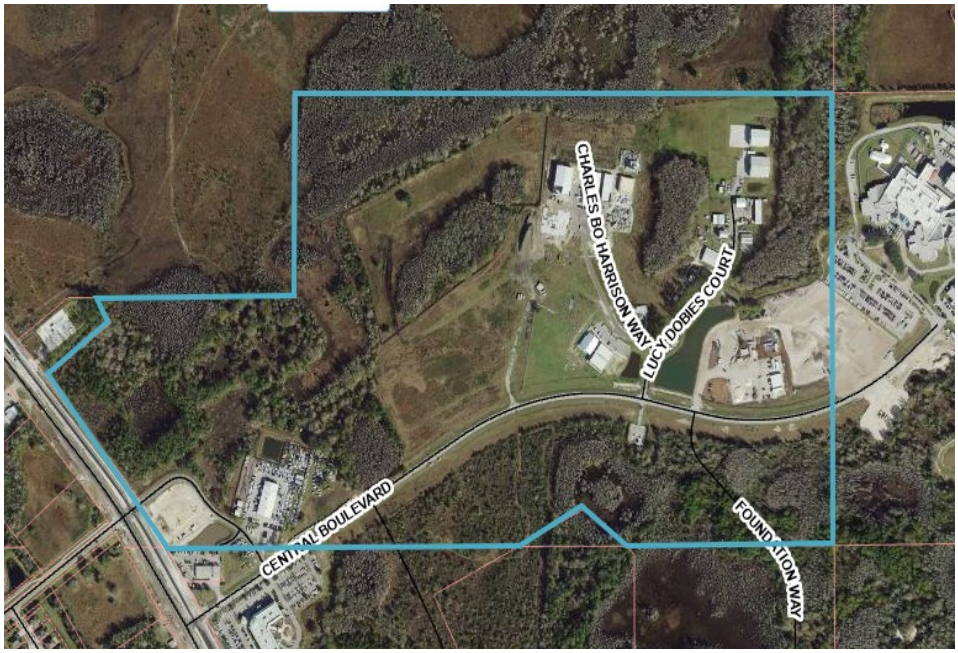
This item has been digitally signed and sealed by Hunter P. Brown, P.E. on the date adjacent to the seal.
Signature must be verified on any electronic copies.

Coastal Design Consultants, Inc.
7026 Little Road New Port Richey, FL 34654
Phone: (727) 849-8010 • Fax: (727) 849-8020

I INTRODUCTION

The scope of this analysis is to provide stormwater and hydrology documentation associated with the proposed Pasco County Sheriff Complex. Pasco County is proposing the design, permitting, and construction of the drainage improvements required for the proposed building and associated facilities located on the east side of State Road 41, adjacent to Lucy Dobies Court, in Pasco County, Florida in Section 15, Township 25 South, Range 18 East. (PIN: 15-25-18-0000-00300-0000) Reference Figure 1 Aerial / Location Map.

Figure 1 Aerial / Location Map



(Image retrieved from Pasco Property Appraiser (July 10, 2024)

Pasco County Sheriff Complex
Land O' Lakes, Pasco County, FL
Coastal #: 23011

COASTAL DESIGN CONSULTANTS

AERIAL LOCATION MAP

II EXISTING SITE CONDITIONS

Flood Zone

According to the National Flood Insurance Program Flood Insurance Rate Map (FIRM) Community – Panel Number 12101C0240F revised September 26, 2014. Portions of the subject site are located adjacent to the following flood zone:

Zone X – No base flood elevations determined.
Zone A – 100-year flood zone

The 100-year floodplain elevation associated with the proposed project was determined from the SWFWMD Pithlachascotee Regional Watershed Study (Node NG0355). There are no proposed floodplain encroachments associated with the project. Reference Exhibit A for the Pithlachascotee Regional Watershed Study documentation.

Existing Site Topography

The project area consists of vacant land.

The subject property has the following surrounding uses:

North: Vacant
East: Vacant
South: Governmental Facility
West: Vacant

Wetlands

There are existing wetlands within and adjacent to the property. There are proposed wetland impacts associated with the project.

III DRAINAGE DESIGN CONSIDERATIONS

Project Description

The proposed improvements for this project will include the development of a stormwater management system associated with the proposed building, parking/driveways, and associated impervious areas. The site contains no existing improvements. The proposed improvements include a stormwater management system to satisfy the water quality and quantity requirements for the proposed improvements.

Methodology

Coastal Design Consultants (Coastal) has researched the records of the Southwest Florida Water Management District and has determined there is no ERP permit associated with the site.

The below criteria will be followed for the proposed project to meet water quality and quantity requirements:

The Southwest Florida Water Management District (SWFWMD) criteria governing stormwater design primarily consists of the following for this project (Part IV of Chapter 373, Florida Statues (F.S.) and Chapter 40D-4,40,45, and 4000, Florida Administrative Code (F.A.C):

> Stormwater Quality – A wet detention treatment system shall treat a volume of one inch of runoff from the contributing basin.
>
> Stormwater Quantity – For a project or portion of a project located within an open drainage basin, the allowable post-development discharge rate must be less than or equal to the pre-development discharge rate, calculated using the SWFWMD 25-year, 24-hour rainfall maps and the Soil Conservation Service Type II Florida Modified 24-hour rainfall distribution. *Note: The basin within the project is considered an open basin.*

Pre-Development Drainage Analysis

The proposed project contains two (2) contributing pre-development basins.

Pre Basin C of 3.68 acres consists of vacant land. Stormwater runoff from the basin drains westerly and discharges towards an on-site wetland. There is no existing stormwater management system associated with the basin.

Pre Basin D of 6.75 acres consists of vacant land. Stormwater runoff from the basin drains easterly and discharges into the adjacent wetland. There is no existing stormwater management system associated with the basin.

Reference Table 1 for a summary of the predevelopment drainage analysis results.

Table 1 Tabulated Summary of Results from the Pre-Development Drainage Analysis

Basin	Area (ac.)	CN_W	T_C (Min)	Discharge Location	25-YR Discharge Rate (cfs)
Pre Basin C	3.68	84.4	23.7	West	**12.81**
Pre Basin D	6.75	86.6	25.6	East	**22.05**

Reference Exhibit A for the Pre-Development Drainage Analysis and the Construction Plans for basin delineation information.

Post Development Drainage Analysis

The proposed project contains one (1) contributing post-development basin.

Post Basin C of 10.63 acres consists of the proposed building, parking improvements, and drainage infrastructure. Stormwater runoff from the basin area is captured within the proposed stormwater management system (DRA C) and discharges westerly and easterly, matching the existing drainage patterns. DRA C has been sized to provide the water quality and quantity required for the proposed basin.

Reference Table 2 for a summary of the post development drainage analysis results.

Table 2 Tabulated Summary of Results from the Post-Development Drainage Analysis

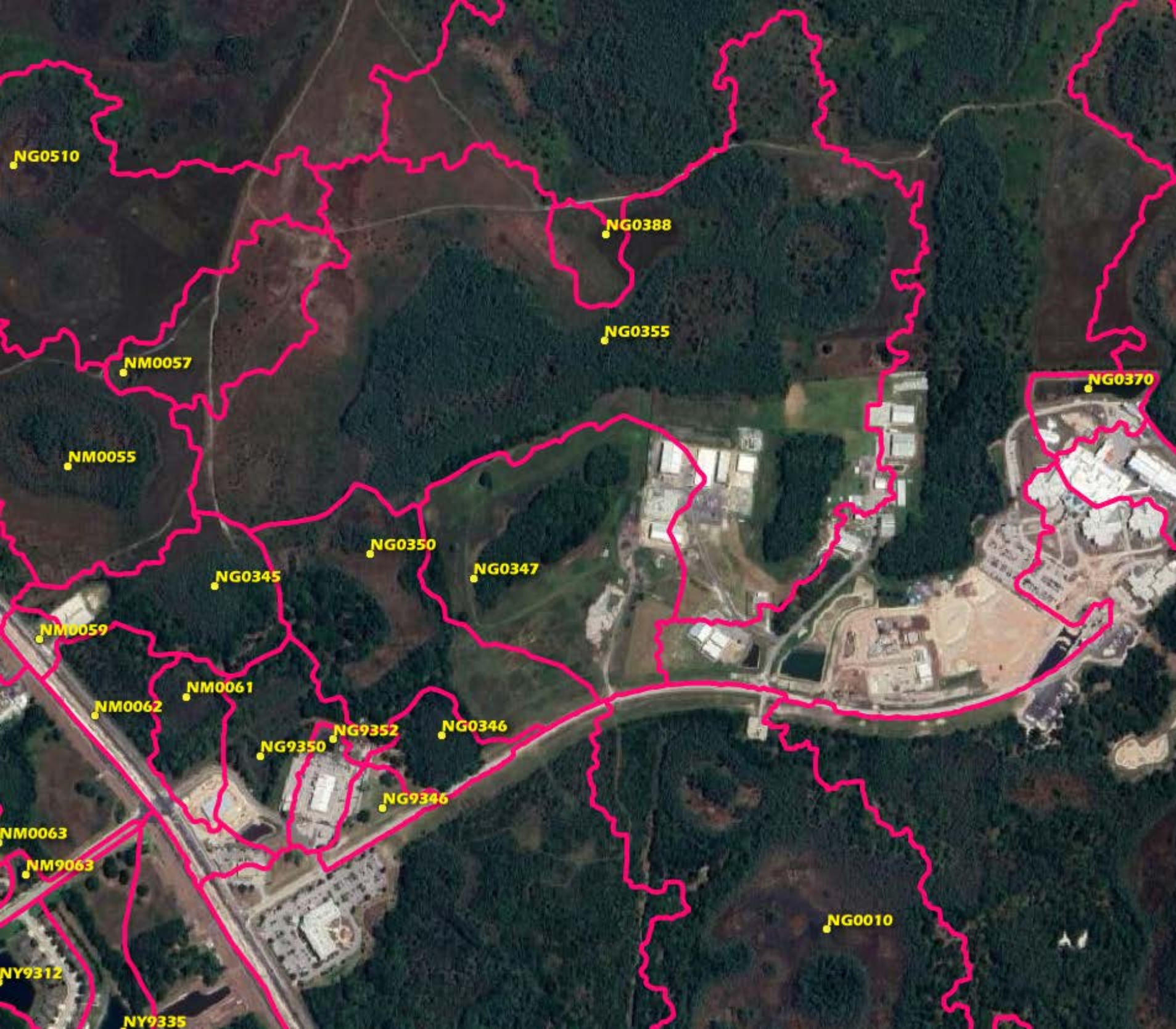
Basin	Area (ac.)	CN_W	T_C (Min)	Discharge Location	25-YR Discharge Rate (cfs)
Post Basin C	10.63	90.0	15.0	West	**12.50**
				East	**21.42**

Reference Exhibit A for the Post Development Drainage Analysis and the Construction Plans for basin delineation information.

IV CONCLUSION

The proposed storm water management system successfully demonstrates that the runoff from the existing site can be contained and attenuated within the proposed system. Additionally, the proposed system satisfies the requirements of ERP part B Chapter 4.2 and 5.29(c) without causing any adverse impacts to the surrounding area.

V EXHIBIT A Drainage Analysis


NG0510
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NM0055
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NM0061
NM0062
NG9352
NG0346
NG9350
NG9346
NM0063
NM9063
NG0010
NY9312
NY9335

Pasco County Sheriff Complex
Pre Basin C

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Area (ac.) = 3.88
CNw = 84.4
Tc (min.) = 23.7

Weighted Curve Number (CNw) Calculation

Cover	HSG	Area (ac.)	CN	(Area)(CN)
Open Space (Fair)	D	3.77	84	316.68
Impervious	D	0.11	98	10.78
		3.88		327.46
	CNw =	**84.4**		

Time of Concentration (Tc) Calculation

Travel Time, Sheet Flow (hr) = (flow ≤300 ft) $T_{t1} = \frac{0.007(nL)^{0.8}}{(P_2)^{0.5} s^{0.4}} =$ 0.337

Travel Time, Shallow Concentrated Flow (hr) = $T_{t2} = \frac{L}{3600V} =$ 0.0583

Time of Concentration (hr) = $T_c = \sum_{i=1}^{m} T_{t_i} =$ **0.396**
(i = 1, 2, ……,m)

Time of Concentration (min) = **23.7**

Input Data

n =	Mannings Roughness Coefficient =	*0.0800*	range
L_T =	Total flow length (ft) =	*550*	
f =	Elevation diff. of hydraulic grade line (ft) =	*3*	
P_2 =	2-year, 24-hour rainfall (in) =	*4.50*	
s =	Slope of hydraulic grade line (ft/ft) =	*0.00545*	
V =	Average velocity, 16.1345(s)$^{0.5}$, (ft/s) =	*1.192*	
L =	Flow Length, ≤ 300 ft (ft) =	*300*	

Stage - Area -Storage Table Starting at SHWT Elevation

There is no exisiting historic storage within the Basin.

Pasco County Sheriff Complex
Pre Basin D

COASTAL DESIGN CONSULTANTS

Area (ac.) = 6.75
CNw = 86.6
Tc (min.) = 25.6

Weighted Curve Number (CNw) Calculation

Cover	HSG	Area (ac.)	CN	(Area)(CN)
Open Space (Fair)	D	5.52	84	463.68
Impervious	D	0.67	98	65.66
Wetland (water)	D	0.56	98	54.88
		6.75		584.22
	CNw =	**86.6**		

Time of Concentration (Tc) Calculation

Travel Time, Sheet Flow (hr) = (flow ≤300 ft) $T_{t1} = \frac{0.007(nL)^{0.8}}{(P_2)^{0.5} s^{0.4}} =$ 0.363

Travel Time, Shallow Concentrated Flow (hr) = $T_{t2} = \frac{L}{3600V} =$ 0.0638

Time of Concentration (hr) = $T_c = \sum_{i=1}^{m} T_{t_i} =$ **0.427**
(i = 1, 2, ……,m)

Time of Concentration (min) = **25.6**

Input Data

n =	Mannings Roughness Coefficient =	*0.0800*	range
L_T =	Total flow length (ft) =	*550*	
f =	Elevation diff. of hydraulic grade line (ft) =	*2.5*	
P_2 =	2-year, 24-hour rainfall (in) =	*4.50*	
s =	Slope of hydraulic grade line (ft/ft) =	*0.00455*	
V =	Average velocity, $16.1345(s)^{0.5}$, (ft/s) =	*1.088*	
L =	Flow Length, ≤ 300 ft (ft) =	*300*	

Stage - Area -Storage Table Starting at SHWT Elevation

There is no exisiting historic storage within the Basin.

Area (ac.) = 10.63
CNw = 89.9
Tc (min.) = 15.0 minimum
SHWT = 75.33' (Tierra boring PBA-1, PBA-2, PBA-3, PBA-5, PBA-6, PBA-7)

Weighted Curve Number (CNw) Calculation

Cover	HSG	Area (ac.)	CN	(Area)(CN)
Open Space (Good)	D	4.46	80	356.80
Future Development	D	0.95	95	90.25
DRA	D	1.37	98	134.26
Gravel	D	0.42	91	38.22
Impervious	D	3.43	98	336.14
		10.63		955.67
	CNw =	**89.9**	**=> Use 90.0**	

DRA C-1

Stage - Area -Storage Table Starting at SHGWT

Stage (ft)	*Description*	Area (ft^2)	Area (ac)	Storage (ac.ft)
75.33	*SHWT*	39,060	0.897	0.00
75.50		40,317	0.926	0.15
76.50		47,810	1.098	1.17
77.50	*TOB*	55,404	1.272	2.35

DRA C-2

Stage - Area -Storage Table Starting at SHGWT

Stage (ft)	*Description*	Area (ft^2)	Area (ac)	Storage (ac.ft)
75.33	*SHWT*	2,490	0.057	0.00
75.50		2,841	0.065	0.01
76.50		5,725	0.131	0.11
77.50	*TOB*	10,620	0.244	0.30

DRA C-3

Stage - Area -Storage Table Starting at SHGWT

Stage (ft)	*Description*	Area (ft^2)	Area (ac)	Storage (ac.ft)
75.33	*SHWT*	18,120	0.416	0.00
75.50		18,890	0.434	0.07
76.50		23,711	0.544	0.56
77.50	*TOB*	28,685	0.659	1.16

DRA C TOTAL

Stage - Area -Storage Table Starting at SHGWT

Stage (ft)	*Description*	Area (ft^2)	Area (ac)	Storage (ac.ft)
75.33	*SHWT*	59,670	1.370	0.00
75.50		62,048	1.424	0.24
76.50		77,246	1.773	1.84
77.50	*TOB*	94,709	2.174	3.81

Pasco County Sheriff Complex
DRA C
Orifice Drawdown Analysis

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Basin Attributes (Initial Inputs)	
Basin Size (ac):	10.63
1" Runoff Volume. (ac-ft):	0.886
Treatment Provided (ac-ft):	0.900

Variable Attributes (Iterative Inputs)	
Orifice Diameter (in) =	2.125
Orifice Coefficient =	0.60
Desired Drawdown Ttime (days)=	5.00
Orifice Invert Elev. (ft)=	75.33
Top of FFV (ft) =	75.94

Description	stage	area sf	area ac	stage vol	cum. Vol
SHWT	75.33	59670	1.370	0	0
Orifice Invert	75.33	59670	1.370	0	0
Top of FFV	75.94	68834	1.580	39194	39194
Next Stage	76.50	77246	1.773	40902	80096

Detailed Stage Calculations

STAGE	Criteria Stages	Stage Area, SF	Stage Vol. CF	Total Vol, CF	Hydraulic Head, Ft	Outflow, CFS	Stage Time (hr)	Elapsed Time (hr)
75.94	**Top of FFV**	**68,834**	**2,001**	**39,194**	**0.61**	**0.09**	**6**	**0.0**
75.91		68,397	1,952	37,193	0.58	0.09	6	6.0
75.88		67,968	1,904	35,241	0.55	0.09	6	12.0
75.85		67,547	1,855	33,337	0.52	0.09	6	18.0
75.83		67,135	1,806	31,482	0.50	0.08	6	24.0
75.80		66,731	1,756	29,676	0.47	0.08	6	30.0
75.77	**36th hr Stage**	**66,335**	**1,706**	**27,920**	**0.44**	**0.08**	**6**	**36.0**
75.75		65,949	1,656	26,214	0.42	0.08	6	42.0
75.72		65,572	1,606	24,558	0.39	0.07	6	48.0
75.70		65,204	1,555	22,952	0.37	0.07	6	54.0
75.67	**60th hr Stage**	**64,846**	**1,367**	**21,398**	**0.34**	**0.07**	**5**	**60.0**
75.65		64,529	1,324	20,031	0.32	0.07	5	65.5
75.63		64,221	1,282	18,706	0.30	0.07	5	70.9
75.61		63,921	1,239	17,425	0.28	0.06	5	76.4
75.59		63,630	1,196	16,186	0.26	0.06	5	81.8
75.57		63,348	1,152	14,990	0.24	0.06	5	87.3
75.56		63,074	1,109	13,838	0.23	0.06	5	92.7
75.54		62,810	1,065	12,730	0.21	0.05	5	98.2
75.52		62,556	1,021	11,665	0.19	0.05	5	103.6
75.51		62,311	976	10,644	0.18	0.05	5	109.1
75.49		62,075	932	9,668	0.16	0.05	5	114.5
75.33	**Orifice Invert**	**59,670**	**0**	**8,736**	**0**	**0**	**---**	**120.0**

Preferences Surfaces Mapping Tables Scenarios Hydrology 1D Hydraulics Reference Elements Simulation Reports Window Help

Link Weir | Point

Polyline

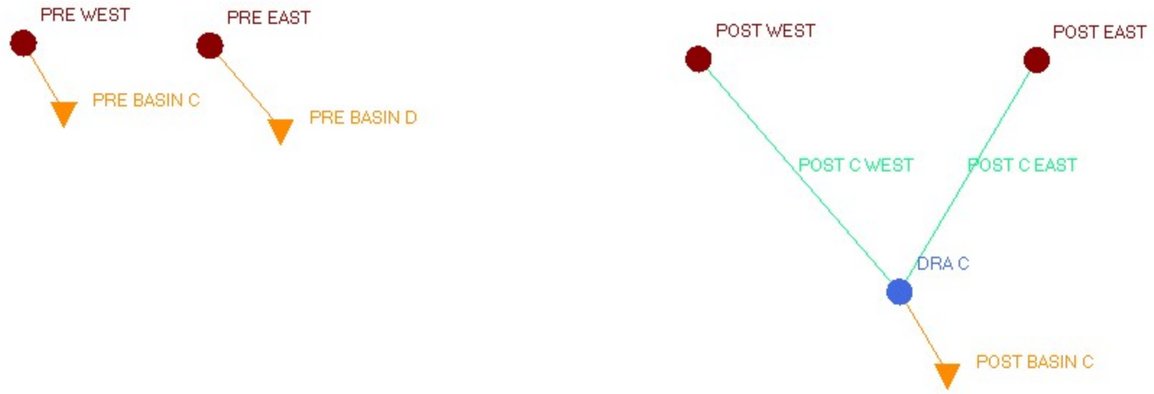
General

Graphic Elements On

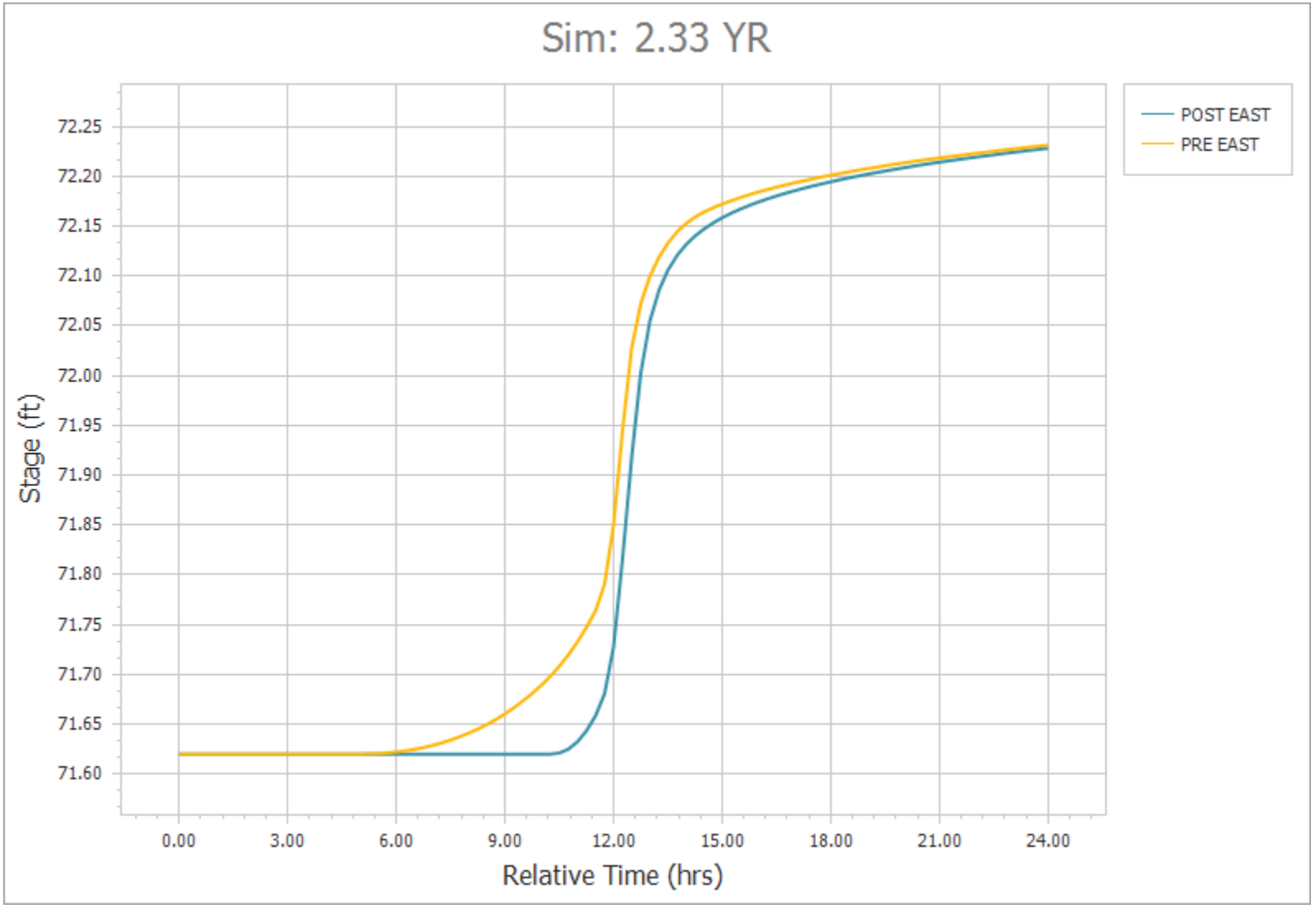
- Display
- Scenarios
  - Scenario 1
    - Hydraulic Network
    - Reference Elements
  - Map Layers
  - Background Images

Graphic View Ports

Apply Save Delete



WETLAND ANALYSIS



Simple Basin: POST BASIN C

Scenario:	Scenario1
Node:	DRA C
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	10.6300 ac
Curve Number:	90.0
Ia/S:	0.00
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: PRE BASIN D

Scenario:	Scenario1
Node:	PRE EAST
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	25.6000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	6.7500 ac
Curve Number:	86.6
Ia/S:	0.00
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Node: DRA C

Scenario:	Scenario1
Type:	Stage/Area
Base Flow:	0.00 cfs
Initial Stage:	75.77 ft
Warning Stage:	0.00 ft
Alert Stage:	0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
75.33	1.3700	59677
75.50	1.4240	62029

Stage [ft]	Area [ac]	Area [ft2]
76.50	1.7730	77232
77.50	2.1740	94699

Comment:

Node: POST EAST

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 71.62 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
71.31	0.0100	436
72.00	2.5036	109055
73.00	28.5012	1241512
74.00	52.2404	2275592
75.00	85.4620	3722726
76.00	104.7844	4564408
77.00	111.6979	4865561
78.00	113.0198	4923142

Comment:

Node: PRE EAST

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 71.62 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
71.31	0.0100	436
72.00	2.5036	109055
73.00	28.5012	1241512
74.00	52.2404	2275592
75.00	85.4620	3722726
76.00	104.7844	4564408
77.00	111.6979	4865561
78.00	113.0198	4923142

Comment:

Weir Link: POST C EAST

Scenario: Scenario1

Bottom Clip

From Node:	DRA C
To Node:	POST EAST
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Rectangular
Invert:	75.94 ft
Control Elevation:	75.94 ft
Max Depth:	999.00 ft
Max Width:	12.00 ft
Fillet:	0.00 ft

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Simulation: 2.33 YR

Scenario: Scenario1
Run Date/Time: 9/24/2025 4:05:02 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight Fact:	0.5 dec	Ia/S:	0.20 dec
dZ Tolerance:	0.0010 ft		
Max dZ:	1.0000 ft	Smp/Man Basin Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft		
		Rainfall Name:	~FLMOD
		Rainfall Amount:	5.00 in
		Storm Duration:	24.0000 hr
		Dflt Damping (1D):	0.0050 ft
		Min Node Srf Area (1D):	100 ft2
		Energy Switch (1D):	Energy

Comment:

Sim	Node Name	Maximum Stage [ft]	Time to Maximum Stage [hrs]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
100 YR	DRA C	76.86	12.3742	63.40	47.32
100 YR	POST EAST	75.00	0.0000	29.88	0.00
100 YR	POST WEST	75.00	0.0000	17.43	0.00
100 YR	PRE EAST	75.00	0.0000	30.41	0.00
100 YR	PRE WEST	75.00	0.0000	17.84	0.00
25 YR	DRA C	76.68	12.3903	46.64	33.92
25 YR	POST EAST	75.00	0.0000	21.42	0.00
25 YR	POST WEST	75.00	0.0000	12.50	0.00
25 YR	PRE EAST	75.00	0.0000	22.05	0.00
25 YR	PRE WEST	75.00	0.0000	12.81	0.00

Simple Basin: POST BASIN C

Scenario:	Scenario1
Node:	DRA C
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	10.6300 ac
Curve Number:	90.0
Ia/S:	0.00
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: PRE BASIN C

Scenario:	Scenario1
Node:	PRE WEST
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	23.7000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	3.8800 ac
Curve Number:	84.4
Ia/S:	0.00
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: PRE BASIN D

Scenario:	Scenario1
Node:	PRE EAST
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	25.6000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	6.7500 ac

Curve Number: 86.6
Ia/S: 0.00
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Node: DRA C

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 75.77 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
75.33	1.3700	59677
75.50	1.4240	62029
76.50	1.7730	77232
77.50	2.1740	94699

Comment:

Node: POST EAST

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	75.00
0	0	0	999.0000	75.00

Comment:

Node: POST WEST

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	75.00
0	0	0	999.0000	75.00

Comment:

Node: PRE EAST

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	75.00
0	0	0	999.0000	75.00

Comment:

Node: PRE WEST

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	75.00
0	0	0	999.0000	75.00

Comment:

Weir Link: POST C EAST

Scenario: Scenario1
From Node: DRA C
To Node: POST EAST
Link Count: 1
Flow Direction: Both
Damping: 0.0000 ft
Weir Type: Broad Crested Vertical
Geometry Type: Rectangular
Invert: 75.94 ft
Control Elevation: 75.94 ft

Bottom Clip

Default: 0.00 ft
Op Table:
Ref Node:

Top Clip

Default: 0.00 ft
Op Table:
Ref Node:

Discharge Coefficients

Weir Default: 2.800

Max Depth:	999.00 ft		
Max Width:	12.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: POST C WEST

Scenario:	Scenario1	**Bottom Clip**	
From Node:	DRA C	Default:	0.00 ft
To Node:	POST WEST	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Rectangular	Ref Node:	
Invert:	75.94 ft	**Discharge Coefficients**	
Control Elevation:	75.94 ft	Weir Default:	2.800
Max Depth:	999.00 ft	Weir Table:	
Max Width:	7.00 ft	Orifice Default:	0.600
Fillet:	0.00 ft	Orifice Table:	

Comment:

Simulation: 100 YR

Scenario:	Scenario1
Run Date/Time:	9/19/2025 3:34:43 PM
Program Version:	StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight Fact:	0.5 dec	Ia/S:	0.20 dec
dZ Tolerance:	0.0010 ft		
Max dZ:	1.0000 ft	Smp/Man Basin Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft		
		Rainfall Name:	~FLMOD
		Rainfall Amount:	12.00 in
		Storm Duration:	24.0000 hr
		Dflt Damping (1D):	0.0050 ft
		Min Node Srf Area (1D):	100 ft2
		Energy Switch (1D):	Energy

Comment:

Simulation: 25 YR

Scenario: Scenario1
Run Date/Time: 9/19/2025 3:34:46 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 9.00 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment: