

City of Clearwater FLU

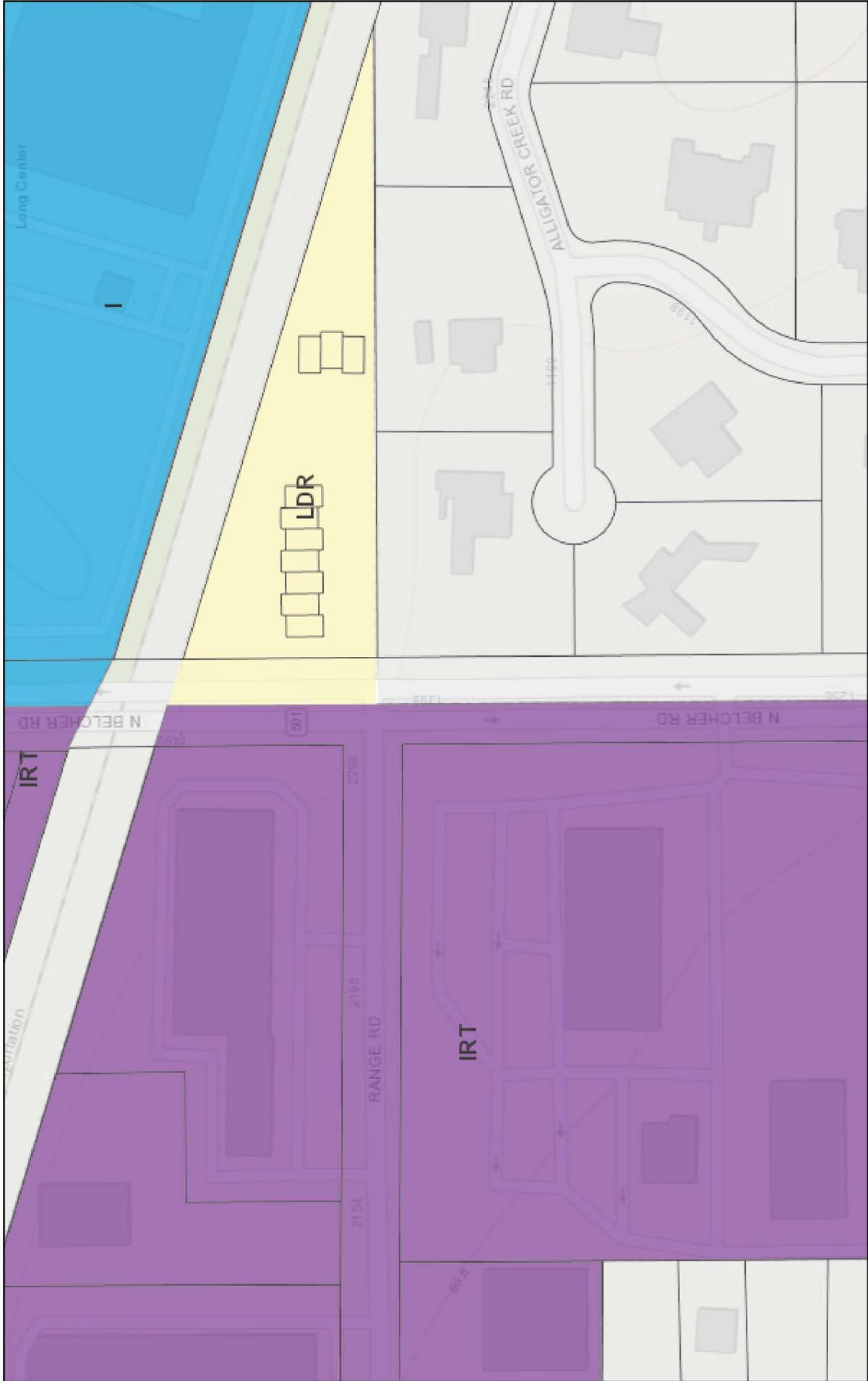


5/21/2025, 5:05:00 PM

1:1,128

- Clearwater Addresses
- Parcels (Clearwater)
- Future Land Use
- (CBD) Central Business District
- (CG) Commercial General
- (CL) Commercial Limited
- (CN) Commercial Neighborhood
- (CRD) Community Redevelopment District
- (I) Institutional
- (IG) Industrial General
- (IL) Industrial Limited
- (P) Preservation
- (RO/R) Residential/Office/Retail
- (ROG) Residential/Office General
- (RM) Residential Medium
- (ROA) Road
- (ROS) Recreation/Open Space
- (RE) Residential Estate
- (RFH) Resort Facilities High
- (RH) Residential High
- (RL) Residential Low
- (RLM) Residential Low Medium
- (R) Residential Suburban
- (RU) Residential Urban
- (TUO) Transportation/Utility Overlay
- (TUO) Transportation/Utility
- (US 19) US 19 Corridor
- US 19 Neighborhood Center
- US 19 Regional Center
- (WATER) Water
- City of Clearwater Service Area
- Unincorporated

City of Clearwater Zoning



5/21/2025, 5:02:58 PM

Zoning

- Parcels (Clearwater)
- C
- D
- HDR
- I
- I-NCOD Island Est
- IRT
- LDR
- LDR-NCOD Coachman R
- LMDR
- LMDR-NCOD Coachman R
- LMDR-NCOD Island Est
- MDR
- MDR-NCOD Island Est
- MHDR
- MHDR-NCOD Island Est
- MHP
- O
- OS/R
- P
- T
- US 19

City of Clearwater Service Area

- City of Clearwater
- Unincorporated

Scale

0 0.01 0.03 0.05 0.06 mi

0 0.03 0.05 0.1 Km

1:2,257

City of Clearwater Information Technology, City of Tampa, County of Pinellas, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA, City of Clearwater

City of Clearwater 2015

Prepared by/return to:
Nickolas C. Ekonomides
Nickolas C. Ekonomides, P.A.
325 N. Belcher Road
Clearwater, Florida 33756

QUIT CLAIM DEED

THIS QUIT CLAIM DEED, Executed this 20th day of September 2024, by Atmi Kurtishi whose address is 166 2nd Avenue, Suite 2D, New York, NY 10003, Grantor*, to Rayan Real Estate, LLC, whose address is 166 2nd Avenue, Suite 2D, New York, NY 10003, as Grantee*.

WITNESSETH, that Grantor, for and in consideration of the sum of \$10.00 Dollars, lawful money of the United States of America, to Grantor in hand paid by Grantee, the receipt and sufficiency whereof is hereby acknowledged, has remised, released and quitclaimed to the Grantee, Grantee's heirs and assigns forever, all the right, title, interest and claim of the Grantor in and to the following described real property in Pinellas County, State of Florida, to wit:

That portion of the Northwest 1/4 of the Northwest 1/4 of Section 7, Township 29 South, Range 16 East, Pinellas County, Florida, lying 50 feet Southerly of and parallel to CSX Railroad centerline, LESS the West 55 feet thereof.

Parcel ID #: 07-29-16-01720-000-0010 and 07-29-16-01720-000-0010 to 0100

Said property is not the homestead of the Grantor.

SUBJECT TO covenants, restrictions, easements and reservations of record and taxes for the year 2024 and subsequent years not yet due and payable.

TO HAVE AND TO HOLD the same together with all and singular tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, and all the privilege, right, title, interest, estate, lien, equity and claim whatsoever of Grantor, either in law or equity, to the only proper use, benefit and behoof of Grantee in fee simple forever.

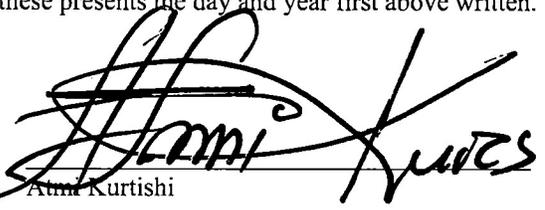
*"Grantor" and "Grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, Grantor has signed and sealed these presents the day and year first above written.

Signed, Seal and Delivered in the presence of:



Witness
Print Name: Sheela Singh
Address: 85-52 111 Street
Jamaica NY 11418



Atmi Kurtishi

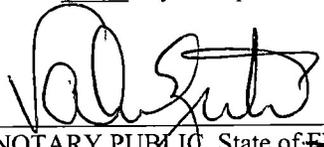


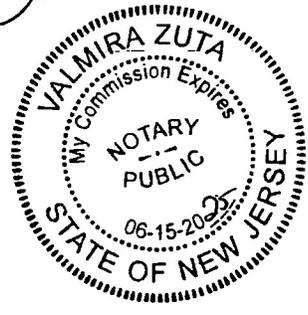
Witness
Print Name: Sangay Tenzing
Address: 158 East 102nd St
Apt 5C NY 10029

STATE OF NEW YORK ~~NEW YORK~~ Jersey
COUNTY OF Passaic

The foregoing instrument was acknowledged before me by means of physical presence or online notarization
this ____ day of September 2024 by Atmi Kurtishi, who is personally known to me or produced a
DRIVER LICENSE as identification.

WITNESS my hand and official seal in the county and state last aforesaid this 20 day of September 2024.


NOTARY PUBLIC, State of ~~Florida~~ New Jersey
My Commission Expires: 2025





Parcel Summary (as of 21-May-2025) | **Parcel Map**

Parcel Number
07-29-16-01720-000-0001

Owner Name
RAYAN REAL ESTATE LLC

Property Use
0905 Subdivision common area - open/green space, assn owned

Site Address
2236 ATMI JUNIOR GREENE DR
CLEARWATER, FL 33765

Mailing Address
166 2ND AVE STE 2D
NEW YORK, NY 10003-5721

Legal Description
ATMI JUNIOR GREENE TRACT A

Current Tax District
CLEARWATER (CW)

Year Built



Living SF	Gross SF	Living Units	Buildings
			0

Exemptions

Year	Homestead	Use %	Status
2026	No	0%	
2025	No	0%	
2024	No	0%	

Property Exemptions & Classifications

No Property Exemptions or Classifications found. Please note that Ownership Exemptions (Homestead, Senior, Widow/Widower, Veterans, First Responder, etc... will not display here).

Miscellaneous Parcel Info

Last Recorded Deed	Sales Comparison	Census Tract	Evacuation Zone	Flood Zone	Elevation Certificate	Zoning	Plat Bk/Pg
23029/1111	Find Comps	267.03	NON EVAC	Current FEMA Maps	Check for EC	Zoning Map	143/110

2024 Final Values

Year	Just/Market Value	Assessed Value/SOH Cap	County Taxable Value	School Taxable Value	Municipal Taxable Value
2024	\$0	\$0	\$0	\$0	\$0

Value History (yellow indicates corrected value)

Year	Homestead Exemption	Just/Market Value	Assessed Value/SOH Cap	County Taxable Value	School Taxable Value	Municipal Taxable Value
2023	N	\$0	\$0	\$0	\$0	\$0
2022	N	\$0	\$0	\$0	\$0	\$0
2021	N	\$0	\$0	\$0	\$0	\$0
2020	N	\$0	\$0	\$0	\$0	\$0

2024 Tax Information



Do not rely on current taxes as an estimate following a change in ownership. A significant change in taxable value may occur after a transfer due to a loss of exemptions, reset of the Save Our Homes or 10% Cap, and/or market conditions. Please use our **Tax Estimator** to estimate taxes under new ownership.

Tax Bill	2024 Millage Rate	Tax District
View 2024 Tax Bill	18.9481	(CW)

Sales History

Sale Date	Price	Qualified / Unqualified	Vacant / Improved	Grantor	Grantee	Book / Page
20-Sep-2024	\$100	U	I	KURTISHI ATMI	RAYAN REAL ESTATE LLC	23029/1111
07-May-2007	\$400,000	Q	V	OSTREC L L C	KURTISHI, ATMI	15778/0922
14-Dec-2004	\$200,000	Q	V	SARANDAPOROU PARTNERS INC	OSTREC LLC	14001/2286
26-Nov-1997	\$41,200	Q	V	CSX TRANS INC	SARANDAPOROU PARTNERS INC	09917/1773

2024 Land Information

Land Area: \cong 76,831 sf \cong 1.76 acres	Frontage and/or View: None	Seawall: No
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Property Use	Land Dimensions	Unit Value	Units	Method	Total Adjustments	Adjusted Value
Residential Common Area	0x0	\$1,000	1	UT	.8000	\$800

2024 Extra Features

Description	Value/Unit	Units	Total Value as New	Depreciated Value	Year
No Extra Features on Record.					

Permit Data

Permit information is received from the County and Cities. This data may be incomplete and may exclude permits that do not result in field reviews (for example for water heater replacement permits). We are required to list all improvements, which may include unpermitted construction. Any questions regarding permits, or the status of non-permitted improvements, should be directed to the permitting jurisdiction in which the structure is located.

Permit Number	Description	Issue Date	Estimated Value
BCP2022-100429	MISCELLANEOUS	05/23/2024	\$2,000,000
BCP2017-06386A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06383A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06392A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06381A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06394A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06377A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06373A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06390A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500
BCP2017-06388A	ADDITION/REMODEL/RENOVATION	02/16/2021	\$2,500

2025 FLORIDA LIMITED LIABILITY COMPANY ANNUAL REPORT

DOCUMENT# L24000347345

Entity Name: RAYAN REAL ESTATE, LLC

Current Principal Place of Business:

166 2ND AVENUE
SUITE 2D
NEW YORK, NY 10003

Current Mailing Address:

1401 N. BELCHER ROAD
CLEARWATER, FL 33765

FEI Number: 33-2655957

Certificate of Status Desired: No

Name and Address of Current Registered Agent:

NICKOLAS C. EKONOMIDES, P.A.
325 N. BELCHER ROAD
SUITE 1D
CLEARWATER, FL 33765 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Electronic Signature of Registered Agent

Date

Authorized Person(s) Detail :

Title MGR
Name KURTISHI, MADRIT
Address 166 2ND AVENUE, SUITE 2D
City-State-Zip: NEW YORK NY 10003

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am a managing member or manager of the limited liability company or the receiver or trustee empowered to execute this report as required by Chapter 605, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: MADRIT KURTISHI

MANAGER

03/12/2025

Electronic Signature of Signing Authorized Person(s) Detail

Date

07-29-16-01720-000-0001



5/21/2025

1:1,128
0 0.01 0.01 0.03 0.03 mi
0 0.01 0.03 0.05 km

LETTER OF AUTHORIZATION

This letter will serve as authorization for **Housh Ghovae** with Northside Engineering, Inc. to act as an agent for: ATMI Junior Green Dr and to execute any and all documents related to securing permits and approvals for the construction on the property generally located: 2236 Atmi Junior Green Drive (City of Clearwater) lying within PINELLAS County, State of FLORIDA.

[Handwritten Signature]

Signature of Property Owner

Madrit Kurtishi
Print Name of Property Owner

166 2nd Ave Suite 2D NY
Address of Property Owner

Manager
Title

New York 10003
City/State/Zip Code

862-221-8116
Telephone Number

State of Florida The foregoing instrument was acknowledged before me this 27 day
County of Pinellas of May, 2025, by Madrit Kurtishi, as owner
who is personally known to me or who has produced DMV License
as identification and who did (did not) take an oath.

 [Handwritten Signature] Notary Public
(Signature)
Commission # 500170 Expires: June 15, 2030

(SEAL ABOVE) Valmira Zuta (Name of Notary Typed, Printed or Stamped)

Issues for record FLD2025-05011

Job Address: 2236 ATMI JUNIOR GREENE DR POOL, CLEARWATER FL 33761

Job Description:

Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
Parks and Rec	Answered	<p>Prior to CDB - Acknowledge Impact Fees It appears that the proposal is for ten new attached dwelling units where three dwelling units exist/existed.</p> <p>A Parks and Recreation Impact Fee of \$2,024 per dwelling unit (estimate of \$20,240 total) will be due prior to the issuance of any Certificate of Occupancy.</p> <p>Please coordinate with Parks and Recreation Staff to determine the final amount due.</p> <p>Please acknowledge this comment prior to CDB.</p> <p>Last response: acknowledged</p>	C1.1	Mark Parry	Jean Mandilk	Yes
Planning	Answered	<p>Prior to CDB: Comprehensive Landscape Plan The original submittal for this project detailed a Comprehensive Landscape Plan. As Land Resources has already pointed out, updated landscape plans, tree preservation plans, and a tree inventory must be submitted for this site.</p> <p>Last response: This plan was previously approved and has commenced construction. (BCP2022-100429 dated 5.10.2024. The only deviation to the code is the use of attached dwellings. The landscape plan will meet all current code requirements.</p>		Austen Dole	Jean Mandilk	Yes
Planning	Answered	<p>Prior to CDB: Renderings and Elevations Please provide up to date, colored renderings of proposed elevations for townhomes.</p> <p>Last response: the submitted architectural/building plans were previously approved by the City of Clearwater and the shell buildings are already constructed. An elevation sheet has been included with this submittal</p>		Austen Dole	Jean Mandilk	Yes

Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
Planning	Answered	<p>Prior to CDB: Height Please verify maximum height proposed. Reflect this on all relevant plans and elevations.</p> <p>Last response: please see submitted building height elevations</p>		Austen Dole	Jean Mandilk	Yes
Planning	Answered	<p>Prior to CDB - Acknowledge - General Comments Please note that additional comments may be generated at or after the Development Review Committee (DRC) meeting based on responses to DRC comments. Substantial redesign or unresolved issues will delay the ability to receive a Development Order and another DRC meeting may be required prior to proceeding to the Community Development Board (CDB).</p> <p>All plans and supporting documents must match. Additionally, any changes to plans, elevations, and other supporting documents must be coordinated for consistency across all documentation to move forward.</p> <p>Pursuant to Fla. Stat. § 166.033, “Within 120 days after the municipality has deemed the application complete, or 180 days for applications that require final action through a quasi-judicial hearing or a public hearing, the municipality must approve, approve with conditions, or deny the application for a development permit or development order. Both parties may agree to a reasonable request for an extension of time, particularly in the event of a force majeure or other extraordinary circumstance.”</p> <p>In order to be reviewed by the Community Development Board (CDB) on August 19, 2025, electronic version of all updated materials must be submitted no later than 12:00pm on July 11, 2025.</p> <p>Last response: acknowledged</p>		Austen Dole	Jean Mandilk	Yes
Land Resource	Answered	<p>Prior to CDB: Landscape Acknowledgement Please respond that you acknowledge the following: Shell, rock, gravel, and any similar material are not acceptable landscape materials per CDC 3-1204.B and will not be approved during the Landscape Final.</p> <p>Code (CDC 3-1204.B) details what is acceptable in terms of landscaping: "All landscaped areas must be covered with shrubs, ground cover, turf, three inches of organic mulch or other suitable material which permits percolation. Where mulch is used, it must be protected from washing out of the planting bed. Inorganic mulch, such as gravel or rock, should only be</p>		Michael Quinzi	Jean Mandilk	Yes

Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
		used where washouts occur. Plastic sheets / weed barrier shall not be installed under mulches." Last response: acknowledged				
Land Resource	Answered	Prior to CDB: Tree Inventory Due to Hurricane Milton and the laps of time a new updated Tree Inventory must be submitted. The Tree Preservation Plan, Inches Spreadsheet and Landscape Plan must be updated to reflect any changes as a result of the Hurricane. Last response: acknowledged		Michael Quinzi	Jean Mandilk	Yes
Public Utilities	Answered	prior to permitting 1. Call-out on drawing and acknowledge – contractor is responsible for obtaining all Necessary permits for roadway crossings both water and sewer and including all restoration work. 2. Call-out on drawings and acknowledge – contract is responsible for excavation and shore for water department to make the necessary tap on water main. 3. Call-out on drawings and acknowledge all sewer system within the project shall be privately owned and maintained by others. 4. Call -out on drawings and acknowledge – explain how the proposal of installing the sewer gravity main crossing belcher Rd. and how the contractor is to connect into the existing gravity system. Last response: acknowledged	L1.1	Michael Vacca	Jean Mandilk	No
Traffic Eng	Answered	Prior to CDB - County ROW --1-- Please provide copies of any traffic impact studies and plans related to the proposed improvements to be made within the County ROW. Note: An approved ROW permit will need to be obtained from Pinellas County prior to completing any work within the ROW. Last response: a right of way application has been submitted to Pinellas County		Raymond Dresch	Jean Mandilk	Yes
Engineering	Answered	Prior to CDB (Acknowledge) - General Comments Please acknowledgment each condition in your response: 1. Written Acknowledgement of all Engineering (including Stormwater, Traffic, Utilities and Environmental) conditions/comments is required.		Raymond Dresch	Jean Mandilk	Yes

Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
		<p>2. Plans submitted have been reviewed for general engineering criteria only, additional comments (including Stormwater, Traffic, Utilities and Environmental) may be forthcoming upon submittal of a Building Permit Application.</p> <p>3. Applicant shall be responsible for maintaining all landscaping, hardscaping, and lighting located within Right of Way.</p> <p>4. Work on right-of-way shall require a permit with the appropriate entity.</p> <p>5. Per Sec. 47.181, bring all sidewalks and ramps adjacent to or as part of the project up to Standards, including ADA.</p> <p>6. Contractor shall request an easement inspection prior to any construction near an easement.</p> <p>Last response: acknowledged</p>				
Solid Waste	Answered	<p>Prior to CDB/Acknowledgment Provide a vehicle template for a side loader trash truck and a rear loader trash truck.</p> <p>Acknowledge that each home will receive 2 - 90 gal barrels, one for garbage and one for recycling that will need to be stored inside the garage.</p> <p>Last response: acknowledged</p>		Brandi Portalatin	Jean Mandilk	Yes
Stormwater	Answered	<p>General comments (acknowledge) Please acknowledge in the response letter of the following general conditions:</p> <ul style="list-style-type: none"> • DRC is a prerequisite of Building Permit application; additional comments may be forthcoming upon reviewing of Building Permit application submittal. • It shall be the responsibility of the EOR to coordinate with and approved by the city's floodplain administrator for any floodplain impact or required mitigation. <p>Last response: acknowledged</p>		Phuong Vo	Jean Mandilk	No
Stormwater	Answered	<p>Prior to CDB (acknowledge) Please acknowledge on the response letter of the following:</p> <p>Pinellas County's drainage connection permit and SWFWMD ERP permit are required prior to issuance of the 1st certification of occupancy.</p>		Phuong Vo	Jean Mandilk	No

Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
		Last response: acknowledged				
Fire	Answered	<p>Prior to DO - Acknowledge Fire Comment Fire Department Access and Water supply shall be established before any vertical construction begins. shall meet the requirements of NFPA 1 2021 Edition, Chapter 18. Please Acknowledge on plans prior to DO.</p> <p>Last response: please see note on sheet C5.1</p>	C4.1	Walter Ramos	Jean Mandilk	Yes
Fire	Answered	<p>Prior to DO - Acknowledge Fire Comment Separate plans and permits will be required for Fire Alarm, Fire Sprinkler, Fire Line Underground work. Please acknowledge and describe on plans PRIOR TO DO.</p> <p>Last response: please see note on sheet C5.1</p>	C3.1	Walter Ramos	Jean Mandilk	Yes
Environmental	Answered	<p>Prior to Building Permit Provide erosion control measures on plan sheet and provide notes detailing erosion control methods. Note: all silt fencing and other erosion control measures will be installed prior to the commencement of site work and maintained throughout the project.</p> <p>Last response: acknowledged</p>		Sarah Kessler	Jean Mandilk	Yes

Atmi Junior Greene

Page 1 of 2

A plat of a portion of the Northwest 1/4 of Section 7, Township 29 South, Range 16 East, City of Clearwater, Pinellas County, Florida

Description:

That portion of the Northwest 1/4 of the Northwest 1/4 of Section 7, Township 29 South, Range 16 East, Pinellas County, Florida, lying 50 feet Southerly of and parallel to CSX Railroad centerline, LESS the West 55 feet thereof.

More particularly described as follows:

Commence at the Northwest corner of the Southwest 1/4 of the Northwest 1/4 of Section 7, Township 28 South, Range 16 East, Pinellas County, Florida; thence S 89° 54' 29" E, 55.00 feet for a Point of Beginning; thence along the East Right-of-way line for Belcher Road N 00° 17' 11" W, 232.93 feet to the South Right-of-way for the CSX Railroad; thence along the South Right-of-way line for the CSX Railroad S 72° 57' 29" E, 797.88 feet to the North Line of Coachman Hill Estates as recorded in the public records of Pinellas County, Florida in Plat Book 75 Pages 90 and 91 to the North Boundary of the Southwest 1/4 of the Northwest 1/4 of said Section 7; thence along the North Line of Coachman Hill Estates and the North Boundary of the Southwest 1/4 of the Northwest 1/4 of said Section 7 N 89° 55' 53" W, 761.69 feet to the Point of Beginning.

Note:

All area shown and described as roadways, walkways or other avenues of ingress and egress, and also all drainage and utility areas are specifically not dedicated for public use. Instead, such areas have been established for the private use of all lot owner's, their guests, invitees and licensees of Atmi Junior Greene. This easement agreement, identified as Tract "A", requires the lot owners of all lots which now or hereafter exist within the Atmi Junior Greene community to bear equally all costs and expenses incidental to the maintenance, repair alteration or improvements of such easement area and this platting creates no governmental responsibility whatsoever with respect thereto. The allocation of these costs and expenses is set forth in the Declaration of Covenants, Conditions and Restrictions of Atmi Junior Greene, including all amendments thereto. The maintenance of the landscaping along Atmi Junior Green Road shall be responsibility of the Atmi Junior Greene Homeowners Association, inc as outlined in the Declaration of Covenant.

Notice:

This plat, as recorded in graphic form, is the official depiction of the subdivided lands described herein and will in no circumstances be supplanted in authority by any other graphic or digital form of the plat. There may be additional restrictions that are not recorded on this plat that may be found in the public records of this county.

Dedication:

The undersigned hereby certifies, that he is the owner of the above described property and that besides his interest therein, there are no other outstanding interests in said property, except as shown in the official record, Pinellas County, Florida, which property is hereby platted as Atmi Junior Greene. Any maintenance, repair, or replacement responsibility relating to pipes, structures, retaining walls, aesthetic and vegetation considerations, in and upon drainage easements are a private function neither assigned nor accepted by the City of Clearwater.

Notes:

1. There is hereby created an ingress and egress easement for fire and emergency vehicles, public officials, utility companies, and the City of Clearwater, for sanitation services and utility maintenance over and across all paved surfaces, located on the lands described hereon.
2. No permanent private structures including masonry or concrete block fences are to be located within easements. Utility easements shall also be easements for the construction, installation, maintenance, and operation of cable television services; provided, however, no such construction, installation, maintenance, and operation of cable television services shall interfere with the facilities and services of an electric, telephone, gas, or other public utility. In the event a cable television provider damages the facilities of a public utility, it shall be solely responsible for the damages.
3. A ten (10) foot water main easement lying five (5) feet on each side of water mains, as they are located from time to time, up to and including all hydrants and meters, except where such mains and related water facilities may lie under structures. [This is a non-plottable, "blanket type" easement that affects the entire subject property].

During the initial construction period of the Atmi Junior Greene development each residential unit shall have an easement on the common area and the adjoining lot(s) upon which the companion portion of the multi-family building is located.

Atmi Kurtishi
Atmi Kurtishi, Owner

David Richardson
David Richardson Witness
Lisa Richardson
Lisa Richardson Witness

ACKNOWLEDGEMENT:

STATE OF FLORIDA)
COUNTY OF PINELLAS)

The foregoing instrument was acknowledged before me this 11th day of May, 2019 by Atmi Kurtishi, owner of property described hereon. He is personally known to me or has produced a State Driver's License as identifications and who did take an oath.

David F Ramsey, Notary Public GG 156258
My Commission Expires: October 30, 2021



Pinellas County

Confirmation of Acceptance:

Atmi Junior Greene Homeowners Association, Inc, a Florida Corporation, joins in the dedication for the purpose of accepting the maintenance of all lands with the exception of Lots 1-10 as shown on this plat.

Atmi Kurtishi
Atmi Kurtishi, President

David Richardson
David Richardson Witness
Lisa Richardson
Lisa Richardson Witness

ACKNOWLEDGEMENT:

STATE OF FLORIDA)
COUNTY OF PINELLAS)

The foregoing instrument was acknowledged before me this 11th day of May, 2019 by Atmi Kurtishi, President of Atmi Junior Greene Homeowners Association, Inc on behalf of the corporation. He is personally known to me or has produced a State Driver's License as identifications and who did take an oath.

David F Ramsey, Notary Public GG 156258
My Commission Expires: October 30, 2021



Certificate of Surveyor and Mapper Review for Conformity:

Pursuant to Chapter 177.081(1) Florida Statutes I have reviewed this plat and find it conforms to Chapter 177, Part 1 of the Florida Statutes. The geometric data has not been verified for mathematical closure.

Thomas L Mahony
Thomas L Mahony
Professional Surveyor and Mapper
License Number LS 6289 State of Florida
City of Clearwater, Engineering Department

Date: 11/13/2019



Certificate of Approval of the City Council

State of Florida)
County of Pinellas)

It is hereby certified that his plat has been officially approved for record by the Board of the City Council of the City of Clearwater, Pinellas County, Florida this day 1st of NOVEMBER, 2019.

Approved By:

William B. Home II
William B Home II, City Manager

Certificate of Approval of County Clerk

State of Florida)
County of Pinellas)

I, Ken Burke, Clerk of Circuit Court of Pinellas County, Florida, hereby certify that this plat has been examined and that it complies in form with all of the requirements of the Statutes of Florida pertaining to maps and plats, and that his plat has been filed for record in Plat Book 143, Pages 10 and 11, Public Records of Pinellas County, Florida. Signed on this 27 day of NOVEMBER, 2019 at Clearwater, Florida.

Ken Burke, Clerk
Pinellas County, Florida

Paula Peloso
Paula Peloso
Deputy Clerk
Pamela Peterson
Pamela Peterson
Print Name

Surveyor's Certificate:

I, David F Ramsey, Professional Engineer and Land Surveyor, do hereby certify that this is a true and correct representation of the lands platted to the best of my knowledge and belief; that this plat was prepared under my direction and supervision and complies with all of the Survey Requirements of Chapter 177, Part 1, Florida State Statutes; and that permanent reference monuments have been set as of May 1, 2019; and all lot corners will be set in accordance with the statutes of the State of Florida thereunto appertaining, and this plat meets all material in compositions required by Florida Statute Number 177.091.

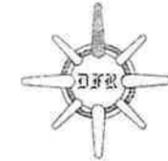
David F Ramsey
David F Ramsey, Professional Engineer, 15307
Dated May 11, 2019, Professional Land Surveyor, 2545

prepared by:
David F Ramsey
David F Ramsey
434 Skinner Boulevard, DUNEDIN, FL 34698
727-409-4639
email david.ramsey@verizon.net



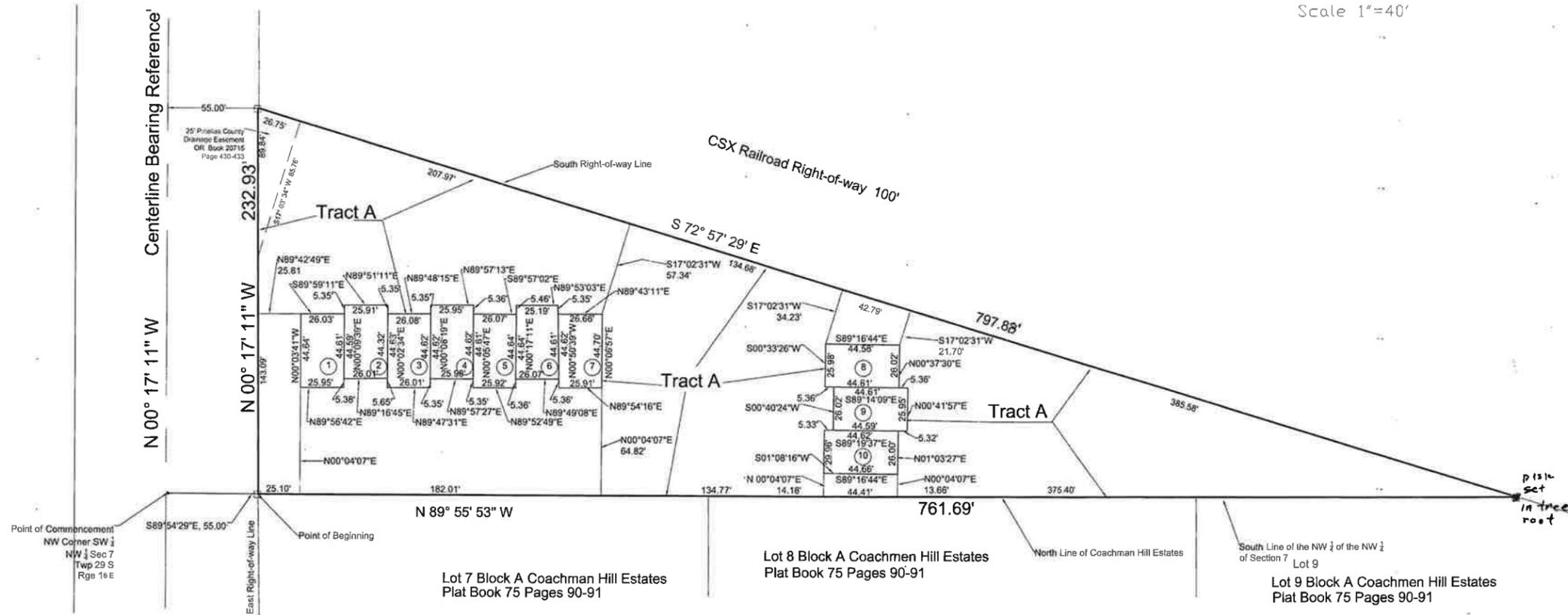
Atmi Junior Greene

A plat of a portion of the Northwest 1/4 of Section 7, Township 29 South,
Range 16 East, City of Clearwater, Pinellas County, Florida



0 40 80

Scale 1"=40'



SYMBOLS

- Found Iron Pin or Pipe
- Set Iron Pin and Cap #2545
- Found Concrete Marker No Number
- Set Permanent Reference Monument 4"x4" CONCRETE #2545
- R/W Right-of-way
- PLS Professional Licenced Surveyor
- P.B. Plat Book

prepared by:
 David F Ramsey
 434 Skinner Boulevard, DUNEDIN, FL 34698
 727-409-4639
 email david.ramsey@verizon.net



1401 BELCHER ROAD
Stormwater Calculations
March 3, 2022
Updated Per Comments April 12, 2022

RESULTS

WATER QUALITY AND POND GEOMETRY

BMP TRAINS ANALYSIS

- 10% Less Than Pre Development Conditions
- 55% - 80% Specified Removal Efficiency

MODRET WATER QUALITY DRAWDOWN ANALYSIS

PROJECT HYDROLOGY

- Pre Condition Hydrology
- Post Condition Hydrology

ICPR MODELING

- Pre Condition Modeling
- Post Condition Modeling

NRCS HYDROLOGIC SOIL GROUP

NRCS DEPTH TO WATER TABLE

NRCS DEPTH TO SOIL RESTRICTIVE LAYER

NRCS HYDRAULIC CONDUCTIVITY

RESULTS

1401 BELCHER ROAD

pre.i4p 3/4/2022 12:18 hr
 post.i4p 04/11/22 14:12 hr

Node Maximum Conditions

25 yr-24 hr SCS Flmod Storm Event

Node ID	Flooding stage (ft)	Pre Condition		Post Condition			Results		Flooding Description/Location
		Pre max stage (ft)	Pre max discharge rate (cfs)	Post max stage (ft)	Post Flooding (ft)	Post max inflow rate (cfs)	Pre - post discharge rate (cfs)	Pre - post stage (ft)	
N_000	44.53	44.53	5.98	42.91	--	4.47	1.51	1.62	Grate inlet elevation/ Belcher road existing inlet
N_010	47.91	n/a	n/a	47.33	0.58	n/a	n/a	n/a	Project pond TOB

All elevations in feet NAVD 1988

Post condition 25yr/24hr discharge rate = **4.47 cfs** < pre condition 25yr/24hr discharge rate = **5.98 cfs** ==> pre/post discharge rate met.

WATER QUALITY AND POND GEOMETRY

Required WQ vol.
Provided WQ vol.

6,208.79 ft³
8,051 ft³

SHGW ELV = 44.00 (from geotechnical report)

Proposed Pond

Pond multiplier =

1

Enter Stage Only

Stage (ft)	Area (ft ²)	Inc Vol (ft ³)	Cum Vol (ft ³)	Intrp Area (ft ²)	Intrp Inc Vol (ft ³)	Intrp Cum Vol (ft ³)	Area (ac)	Cum Vol (af)
TOB →	47.91	11,685.42	23,384.92				0.2683	0.5368
	47.50	10,455.37	18,846.06				0.2400	0.4326
DHW →	47.33	9,228.77	13,925.03	10,038.33	3,179.07	17,104.10	0.2304	0.3927
	47.00	8,035.60	9,608.93				0.2119	0.3197
	46.50	6,865.86	5,883.57				0.1845	0.2206
WEIR →	46.38	6,865.86	5,883.57	7,754.86	2,777.94	8,661.50	0.1780	0.1988
	46.00	5,829.42	2,709.75				0.1576	0.1351
	45.50	5,009.57	0.00				0.1338	0.0622
BOT →	45.00	0.00	0.00				0.1150	0.0000

All elevations in feet NAVD 88

- Total basin area = **1.3157 ac**
- A BMPTRAINS WQ analysis was performed
- The provided retention depth over the basin area is:
- Req WQ = **1.30 in** x **1 ft/12 in** x **1.3157 ac** x **43,560 ft² / 1 ac** = **6,208.79 ft³**
- Water quality elv. **46.06 ft**
- Weir elevation **46.38 ft**
- From MODRET analysis, the pond draws down **45.41 ft**
- Begin attenuation at 36 hour stage **8.051 cf in** **72.00 hrs**

BMP TRAINS ANALYSIS

- Catchments**

- 10% Net Less Than Pre Conditions**

- 55% - 80% Percent Removal Efficiency**

1401 BELCHER ROAD

BMP TRAINS CATCHMENTS

PRE CONDITION

PRE CONDITION ONSITE CATCHMENT

Land Use	Area (ac)	Soil Group	CN
Impervious: Paved roads, parking lots, sidewalks, roofs	0.0000	--	N/A
Open space (lawns, parks, golf courses, cemeteries, etc.) good condition - grass cover > 75%	1.3157	A/D	80

Total Area = 1.3157 ac
Percent DCIA = 0.00 %

Pre Condition Onsite Non DCIA CN	
Area (ac)	CN
1.3157	80.0

PRE SUMMATION

Total catchment areas 1.3157 ac
Total catchment pre impervious 0.0000 ac
Total catchment impervious percentage 0.00 %

BMP TRAINS CATCHMENTS

POST CONDITION

POST CONDITION ONSITE CATCHMENT

Land Use	Area (ac)	Soil Group	CN
Impervious: Paved roads, parking lots, sidewalks, roofs	0.7786	--	N/A
Open space (lawns, parks, golf courses, cemeteries, etc.) good condition - grass cover > 75%	0.2688	A/D	80
Proposed pond	0.2683	A/D	100

Total Area = 1.3157 ac
 Percent DCIA = 59.18 %

Post Condition Onsite Non DCIA CN	
Area (ac)	CN
0.5371	89.99

POST SUMMATION	
Total catchment areas	1.3157 ac
Total catchment pre impervious	0.7786 ac
Total catchment impervious percentage	59.18 %

10% LESS TAN PRE DEVELOPMENT CONDITIONS

Complete Report (not including cost) Ver 3.0.0

Project: 1401 BELCHER ROAD

Date: 3/7/2022 8:30:14 AM

Site and Catchment Information

Analysis: 10% Less than Pre-Development Conditions

Catchment Name	ONSITE
Rainfall Zone	Florida Zone 4
Annual Mean Rainfall	51.00

Pre-Condition Landuse Information

Landuse	Undeveloped - Upland Hard wood: TN= 1.042 TP=0.346
Area (acres)	1.32
Rational Coefficient (0-1)	0.13
Non DCIA Curve Number	80.00
DCIA Percent (0-100)	0.00
Nitrogen EMC (mg/l)	1.042
Phosphorus EMC (mg/l)	0.346
Runoff Volume (ac-ft/yr)	0.729
Nitrogen Loading (kg/yr)	0.937
Phosphorus Loading (kg/yr)	0.311

Post-Condition Landuse Information

Landuse	Multi-Family: TN=2.320 TP=0.520
Area (acres)	1.32
Rational Coefficient (0-1)	0.60
Non DCIA Curve Number	89.99
DCIA Percent (0-100)	59.20
Wet Pond Area (ac)	0.00
Nitrogen EMC (mg/l)	2.320
Phosphorus EMC (mg/l)	0.520
Runoff Volume (ac-ft/yr)	3.341
Nitrogen Loading (kg/yr)	9.558
Phosphorus Loading (kg/yr)	2.142

Catchment Number: 1 Name: ONSITE

Project: 1401 BELCHER ROAD

Date: 3/7/2022

Multiple BMP in Series Design Parameters

BMP in Series Number: 1

BMP Type: Swale

Swale Top Width for Flood Conditions - W (ft)	9.000
Swale Bottom Width - B (ft)	5.000
Swale Length - L (ft)	390.250
Average Impervious Length (ft)	390.250
Average Impervious Width (ft)	86.910
Average Pervious Width (ft)	59.950
Swale Slope (foot drop/foot length) - S	0.001
Mannings N	0.060
Soil Infiltration Rate (in/hr)	11.010
Side Slope of Swale horizontal/vertical - Z	4.000
Average Height of Swale Block - H	0.000
Length of Berm Upstream of Crest - L_b	0.000
Number of Swale Blocks	

BMP in Series Number: 2

BMP Type: Retention

Retention Depth (in)	1.300
Retention Volume (ac-ft)	0.143

BMP in Series Number: 3

BMP Type: None

BMP in Series Number: 4

BMP Type: None

Watershed Characteristics

Catchment Area (acres)	1.32
Contributing Area (acres)	1.320
Non-DCIA Curve Number	89.99
DCIA Percent	59.20
Rainfall Zone	Florida Zone 4
Rainfall (in)	51.00

Surface Water Discharge

Required TN Treatment Efficiency (%) 91

Provided TN Treatment Efficiency (%) 92
 Required TP Treatment Efficiency (%) 87
 Provided TP Treatment Efficiency (%) 92

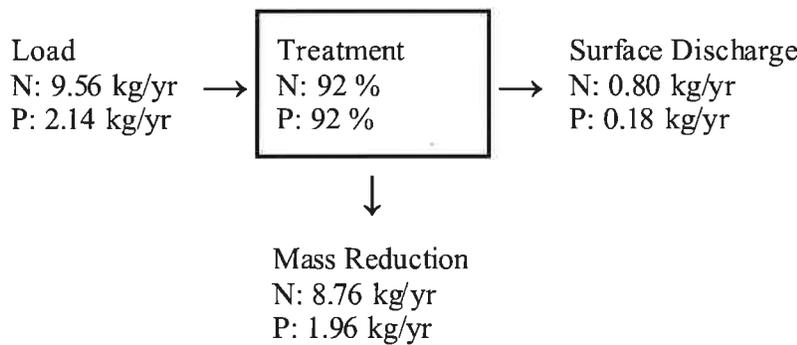
Media Mix Information

Type of Media Mix Not Specified
 Media N Reduction (%)
 Media P Reduction (%)

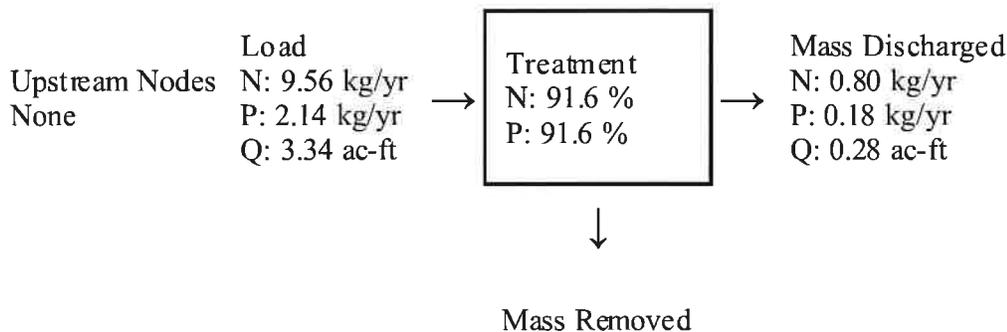
Groundwater Discharge (Stand-Alone)

Treatment Rate (MG/yr) 0.000
 TN Mass Load (kg/yr) 0.000
 TN Concentration (mg/L) 0.000
 TP Mass Load (kg/yr) 0.000
 TP Concentration (mg/L) 0.000

Load for Multiple BMP in Series



Load Diagram for Multiple BMP (As Used In Routing)



N: 8.76 kg/yr
P: 1.96 kg/yr

Summary Treatment Report Version: 3.0.0

Project: 1401 BELCHER ROAD

Date:3/7/2022

Analysis Type: 10% Less than Pre-Development Conditions

BMP Types:

Catchment 1 - Multiple BMP

Routing Summary

Catchment 1 Routed to Outlet

Total nitrogen target removal met? **Yes**

Total phosphorus target removal met? **Yes**

Summary Report

Nitrogen

Surface Water Discharge

Total N pre load	.94 kg/yr	
Total N post load	9.56 kg/yr	
Target N load reduction	90 %	
Target N discharge load	.84 kg/yr	
Percent N load reduction	92 %	
Provided N discharge load	.8 kg/yr	1.77 lb/yr
Provided N load removed	8.76 kg/yr	19.31 lb/yr

Phosphorus

Surface Water Discharge

Total P pre load	.311 kg/yr	
Total P post load	2.142 kg/yr	
Target P load reduction	85 %	
Target P discharge load	.28 kg/yr	
Percent P load reduction	92 %	
Provided P discharge load	.18 kg/yr	.4 lb/yr
Provided P load removed	1.963 kg/yr	4.328 lb/yr

From Pre-Condition Loads

Existing N Discharge	.84 (kg/yr)
Existing P Discharge	.28 (kg/yr)

55% - 80% SPECIFIED REMOVAL EFFICIENCY

Complete Report (not including cost) Ver 3.0.0

Project: 1401 BELCHER ROAD

Date: 3/7/2022 8:31:57 AM

Site and Catchment Information

Analysis: Specified Removal Efficiency

Catchment Name	ONSITE
Rainfall Zone	Florida Zone 4
Annual Mean Rainfall	51.00

Pre-Condition Landuse Information

Landuse	Undeveloped - Upland Hard wood: TN= 1.042 TP=0.346
Area (acres)	1.32
Rational Coefficient (0-1)	0.13
Non DCIA Curve Number	80.00
DCIA Percent (0-100)	0.00
Nitrogen EMC (mg/l)	1.042
Phosphorus EMC (mg/l)	0.346
Runoff Volume (ac-ft/yr)	0.729
Nitrogen Loading (kg/yr)	0.937
Phosphorus Loading (kg/yr)	0.311

Post-Condition Landuse Information

Landuse	Multi-Family: TN=2.320 TP=0.520
Area (acres)	1.32
Rational Coefficient (0-1)	0.60
Non DCIA Curve Number	89.99
DCIA Percent (0-100)	59.20
Wet Pond Area (ac)	0.00
Nitrogen EMC (mg/l)	2.320
Phosphorus EMC (mg/l)	0.520
Runoff Volume (ac-ft/yr)	3.341
Nitrogen Loading (kg/yr)	9.558
Phosphorus Loading (kg/yr)	2.142

Catchment Number: 1 Name: ONSITE

Project: 1401 BELCHER ROAD

Date: 3/7/2022

Multiple BMP in Series Design Parameters

BMP in Series Number: 1

BMP Type: Swale

Swale Top Width for Flood Conditions - W (ft)	9.000
Swale Bottom Width - B (ft)	5.000
Swale Length - L (ft)	390.250
Average Impervious Length (ft)	390.250
Average Impervious Width (ft)	86.910
Average Pervious Width (ft)	59.950
Swale Slope (foot drop/foot length) - S	0.001
Mannings N	0.060
Soil Infiltration Rate (in/hr)	11.010
Side Slope of Swale horizontal/vertical - Z	4.000
Average Height of Swale Block - H	0.000
Length of Berm Upstream of Crest - L_b	0.000

Number of Swale Blocks

BMP in Series Number: 2

BMP Type: Retention

Retention Depth (in)	1.300
Retention Volume (ac-ft)	0.143

BMP in Series Number: 3

BMP Type: None

BMP in Series Number: 4

BMP Type: None

Watershed Characteristics

Catchment Area (acres)	1.32
Contributing Area (acres)	1.320
Non-DCIA Curve Number	89.99
DCIA Percent	59.20
Rainfall Zone	Florida Zone 4
Rainfall (in)	51.00

Surface Water Discharge

Required TN Treatment Efficiency (%)	55
--------------------------------------	----

Provided TN Treatment Efficiency (%) 92
 Required TP Treatment Efficiency (%) 80
 Provided TP Treatment Efficiency (%) 92

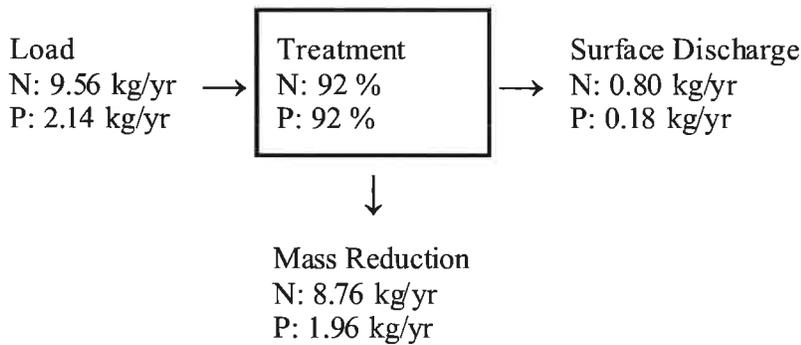
Media Mix Information

Type of Media Mix Not Specified
 Media N Reduction (%)
 Media P Reduction (%)

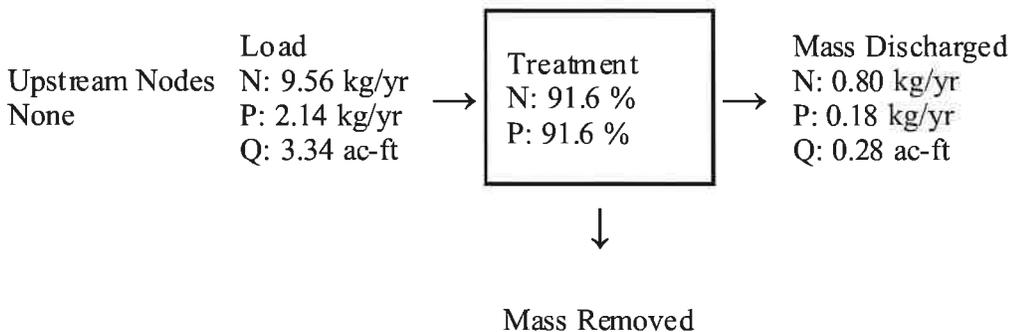
Groundwater Discharge (Stand-Alone)

Treatment Rate (MG/yr) 0.000
 TN Mass Load (kg/yr) 0.000
 TN Concentration (mg/L) 0.000
 TP Mass Load (kg/yr) 0.000
 TP Concentration (mg/L) 0.000

Load for Multiple BMP in Series



Load Diagram for Multiple BMP (As Used In Routing)



N: 8.76 kg/yr
P: 1.96 kg/yr

Summary Treatment Report Version: 3.0.0

Project: 1401 BELCHER ROAD

Date:3/7/2022

Analysis Type: Specified Removal

Efficiency

BMP Types:

Catchment 1 - Multiple BMP

Total nitrogen target removal met? **Yes**

Total phosphorus target removal met? **Yes**

Routing Summary

Catchment 1 Routed to Outlet

Summary Report

Nitrogen

Surface Water Discharge

Total N pre load	.94 kg/yr	
Total N post load	9.56 kg/yr	
Target N load reduction	55 %	
Target N discharge load	4.3 kg/yr	
Percent N load reduction	92 %	
Provided N discharge load	.8 kg/yr	1.77 lb/yr
Provided N load removed	8.76 kg/yr	19.31 lb/yr

Phosphorus

Surface Water Discharge

Total P pre load	.311 kg/yr	
Total P post load	2.142 kg/yr	
Target P load reduction	80 %	
Target P discharge load	.428 kg/yr	
Percent P load reduction	92 %	
Provided P discharge load	.18 kg/yr	.4 lb/yr
Provided P load removed	1.963 kg/yr	4.328 lb/yr

From Pre-Condition Loads

Existing N Discharge	4.3 (kg/yr)
Existing P Discharge	.428 (kg/yr)

MODRET WATER QUALITY DRAWDOWN ANALYSIS

1401 BELCHER ROAD

Determination of Horizontal Saturated and Vertical Unsaturated Hydraulic Conductivities (K_{hsat} and K_{vu})

From NRSC soil survey:

- Soil map unit name: 13 (Immokalee soils and Urban land)
Hydrologic soil group = type A/D soils

- NRCS reported vertical saturated hydraulic conductivity

77.6721	μm/s
= K_{Vsat} =	22.02 ft/day
77.6721	11.01 in/hr

$K_{Vsat} = 22.02 \text{ ft/day}$

Given: $k_{vsat} = 2/3 k_{hsat}$ (SWFWMD guideline)
 $K_{vu} = 2/3 K_{vsat}$ (Andeyev and Wiseman, 1989)

Therefore: $k_{hsat} = (3/2) k_{vsat} = (3/2) K_{vsat}$
 $= (3/2) 22.02 \text{ ft/day}$
 $= 33.03 \text{ ft/day}$

$k_{hsat} = 33.03 \text{ ft/day}$

$k_{vu} = (2/3) k_{vsat} = (2/3) K_{vsat}$
 $= (2/3) 22.02 \text{ ft/day}$
 $= 14.68 \text{ ft/day}$

$k_{vu} = 14.68 \text{ ft/day}$

MODRET

SUMMARY OF UNSATURATED & SATURATED INPUT PARAMETERS

**PROJECT NAME : 1401 BELCHER ROAD
 POLLUTION VOLUME RUNOFF DATA USED
 UNSATURATED ANALYSIS EXCLUDED**

Pond Bottom Area	5,009.57 ft ²
Pond Volume between Bottom & DHWL	8,661.50 ft ³
Pond Length to Width Ratio (L/W)	5.40
Elevation of Effective Aquifer Base	35.68 ft
Elevation of Seasonal High Groundwater Table	44.00 ft
Elevation of Starting Water Level	45.00 ft
Elevation of Pond Bottom	45.00 ft
Design High Water Level Elevation	46.38 ft
Avg. Effective Storage Coefficient of Soil for Unsaturated Analysis	0.05
Unsaturated Vertical Hydraulic Conductivity	14.68 ft/d
Factor of Safety	2.00
Saturated Horizontal Hydraulic Conductivity	33.03 ft/d
Avg. Effective Storage Coefficient of Soil for Saturated Analysis	0.11
Avg. Effective Storage Coefficient of Pond/Exfiltration Trench	1.00

Hydraulic Control Features:

	Top	Bottom	Left	Right
Groundwater Control Features - Y/N	N	N	N	N
Distance to Edge of Pond	0.00	0.00	0.00	0.00
Elevation of Water Level	0.00	0.00	0.00	0.00
Impervious Barrier - Y/N	N	N	N	N
Elevation of Barrier Bottom	0.00	0.00	0.00	0.00

MODRET

TIME - RUNOFF INPUT DATA

PROJECT NAME: 1401 BELCHER ROAD

STRESS PERIOD NUMBER	INCREMENT OF TIME (hrs)	VOLUME OF RUNOFF (ft³)
Unsat	0.00	0.00
1	1.00	8,661.50
2	8.88	0.00
3	8.88	0.00
4	8.88	0.00
5	8.88	0.00
6	8.88	0.00
7	8.88	0.00
8	8.88	0.00
9	8.88	0.00

MODRET

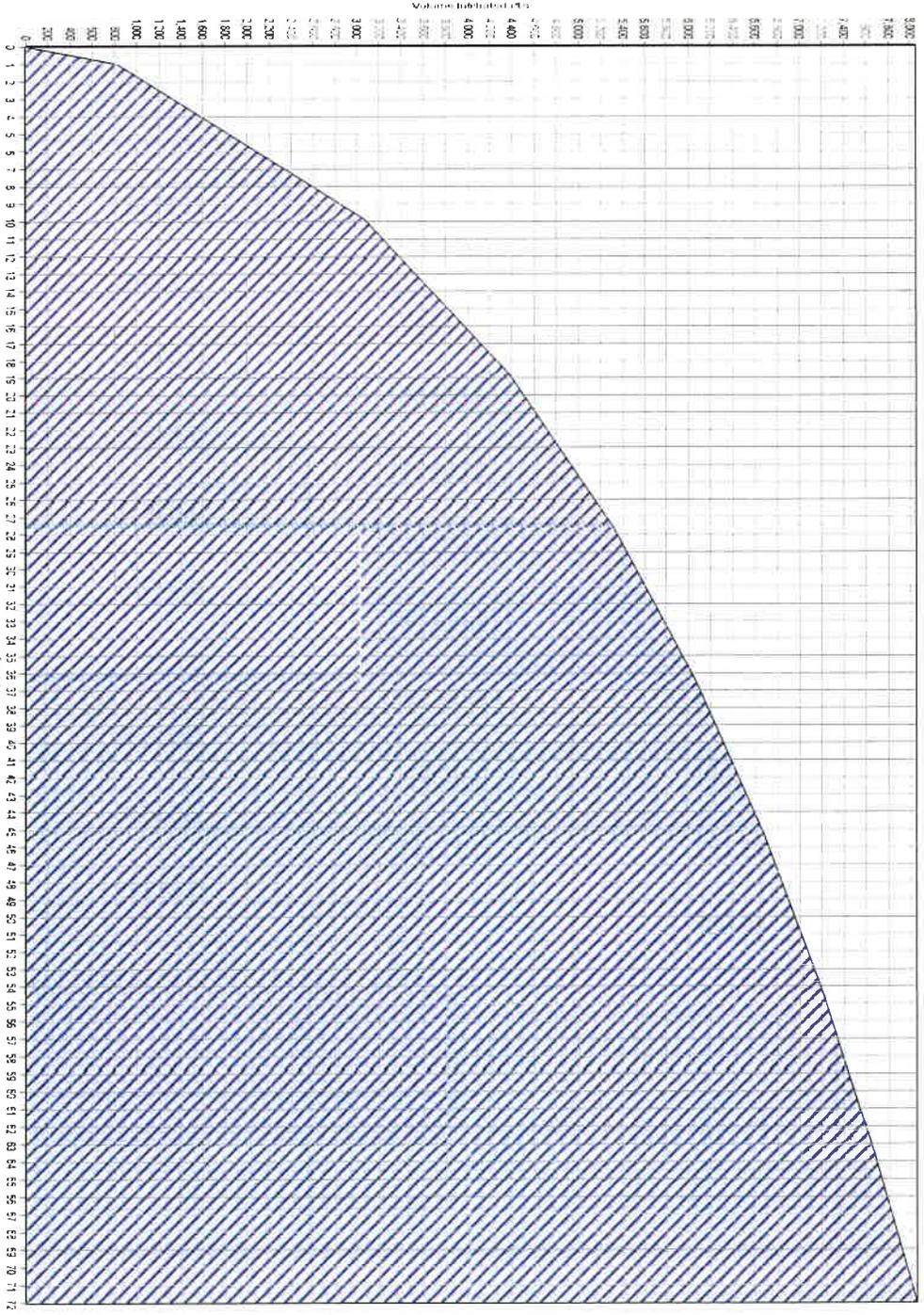
SUMMARY OF RESULTS

PROJECT NAME : 1401 BELCHER ROAD

CUMULATIVE TIME (hrs)	WATER ELEVATION (feet)	INSTANTANEOUS INFILTRATION RATE (cfs)	AVERAGE INFILTRATION RATE (cfs)	CUMULATIVE OVERFLOW (ft ³)
00.00 - 0.00	44.000	0.000 *		
			0.00000	
0.00	44.000	0.24580		
			0.22965	
1.00	46.248	0.21350		0.00
			0.07020	
9.88	45.891	0.05556		0.00
			0.04091	
18.75	45.683	0.03521		0.00
			0.02952	
27.63	45.532	0.02639		0.00
			0.02326	
36.50	45.414	0.02123		0.00
			0.01921	
45.38	45.316	0.01777		0.00
			0.01634	
54.25	45.233	0.01526		0.00
			0.01418	
63.13	45.161	0.01334		0.00
			0.01249	
72.00	45.097			0.00

Maximum Water Elevation: 46.248 feet @ 1.00 hours	Recovery @ > 45.375 hours
* Time increment when there is no runoff	
Maximum Infiltration Rate: 3.161 ft/day	

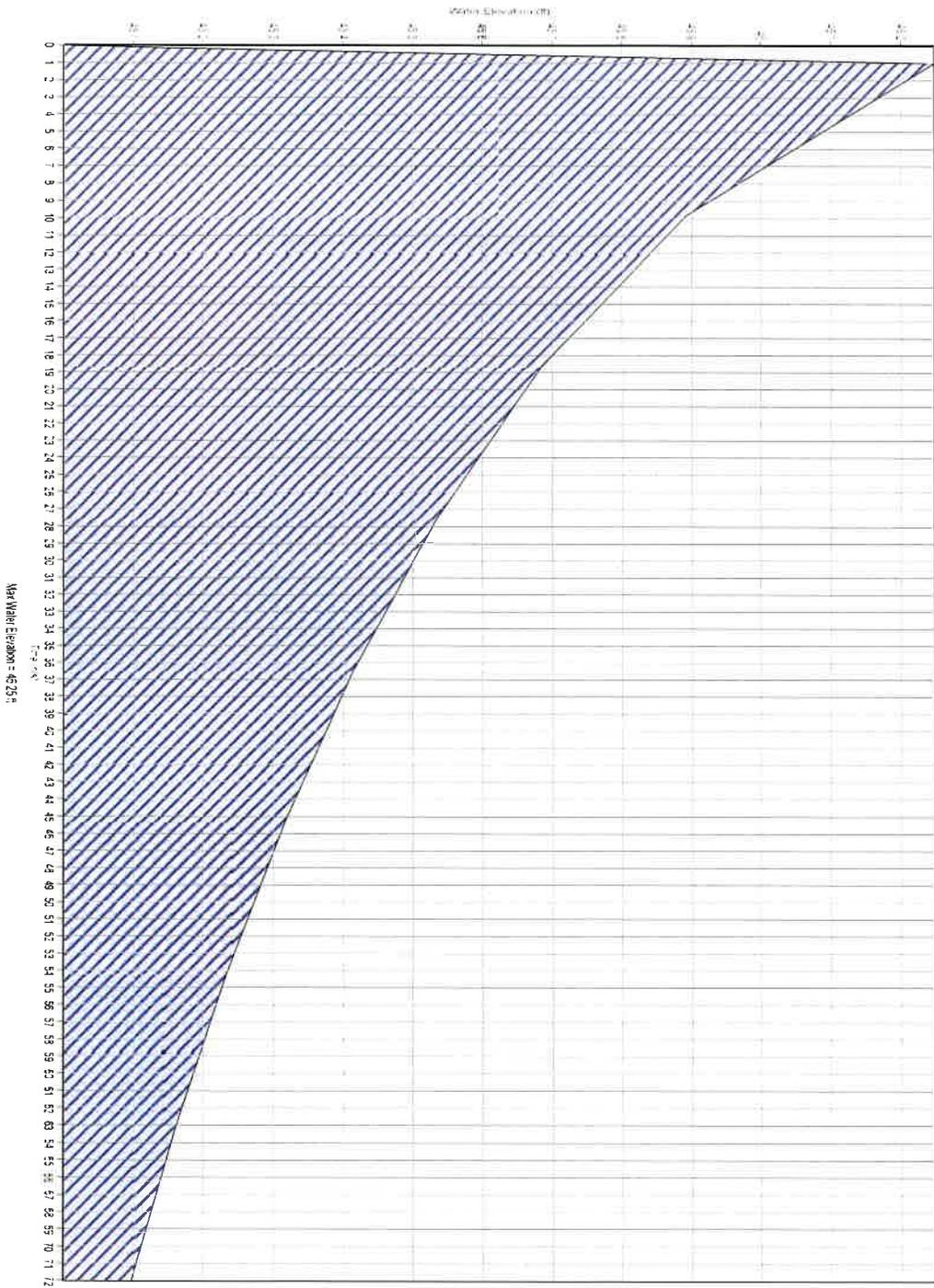
INFILTRATION: 100 BELCHER ROAD



Volume Infiltrated (Gals)

Time (min)

INFILTRATION - 1401 BELCHER ROAD



Man Water Elevation = 46.25 ft

PROJECT HYDROLOGY

– Pre Condition Hydrology

– Post Condition Hydrology

PRE CONDITION HYDROLOGY

PRE CONDITION

PRE CONDITION ONSITE BASIN

Land Use	Area (ac)	Soil Group	CN
Impervious: Paved roads, parking lots, sidewalks, roofs	0.0000	n/a	98
Open space (lawns, parks, golf courses, cemeteries, etc.) good condition - grass cover > 75%	1.3157	A/D	80

Total Area = 1.3157
Percent DCIA = 0.00

Composite CN	
Area (ac)	CN
1.3157	80.0

PRE SUMMATION	
Total basin area	1.3157 ac
Total pre condition impervious area	0.0000 ac
Total pre condition impervious percentage	0.00 %

PRE CONDITION T_c CALCULATION

Time of Concentration Calculations

Pre Condition Basin ONSITE

Pre condition - Time of Concentration

Sheet Flow

1. Surface description
2. Overland flow length, L (maximum 100 feet)
3. Elv 1
4. Elv 2
5. Average slope of overland flow path, S
6. Manning roughness coefficient for overland flow, n
7. Choose rainfall intensity, I (FDOT Zone 6 IDF curve, 25 yr)
8. $t_1 = \frac{0.93(L*n)^{0.6}}{I^{0.4} S^{0.3}}$ (Kinematic Wave eq.)

Compute t_1

	Dense grass
ft	100
ft	51.00
ft	46.70
ft/ft	0.0430
	0.24
in/hr	7.45
min	7.21

Shallow Concentrated Flow

9. Surface description
- Flow length, L
- Elv 1
10. Elv 2
11. Watercourse slope, S
12. Average Velocity, V (see below)
13. $t_2 = \frac{L}{60V}$

Compute t_2

	Unpaved
	41.9
	46.70
ft	45.00
ft/ft	1.7000
ft/s	21.04
min	1.99

$$V = 16.1345(S)^{1/2} \quad (\text{Unpaved}) \quad = \quad 21.03681 \text{ ft/s}$$

$$V = 20.3282(S)^{1/2} \quad (\text{Paved}) \quad = \quad 26.50473 \text{ ft/s}$$

Channel Flow

14. $V = \frac{(1.49 R^{2/3} s^{1/2})}{n}$, Manning eq., (see sheet following)
15. Flow Length, L
16. $t_3 = \frac{L}{60V}$

Compute t_3

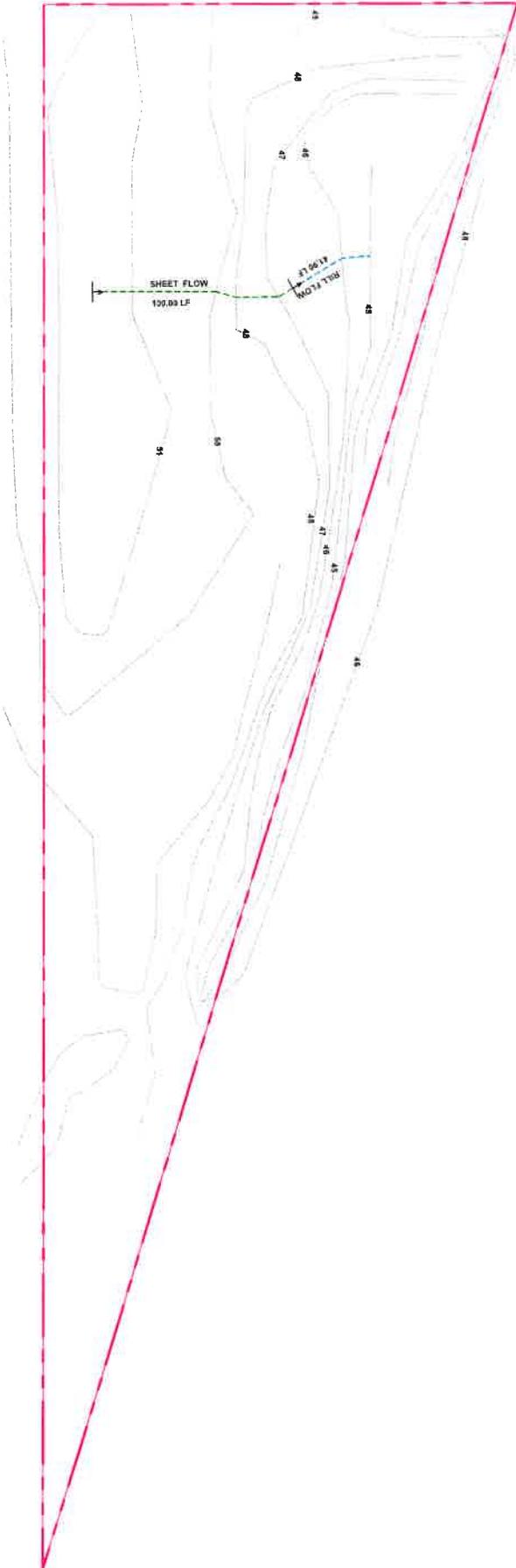
ft/s	
ft	
min	0.0

$$T_c = t_1 + t_2 + t_3$$

min 9.20

Say 10 minutes

**1401 BELCHER ROAD
PRE CONDITION COUNTOURS
FOR Tc COMPUTATION**



POST CONDITION MODELING

POST CONDITION HYDROLOGY

POST CONDITION

POST CONDITION ONSITE BASIN

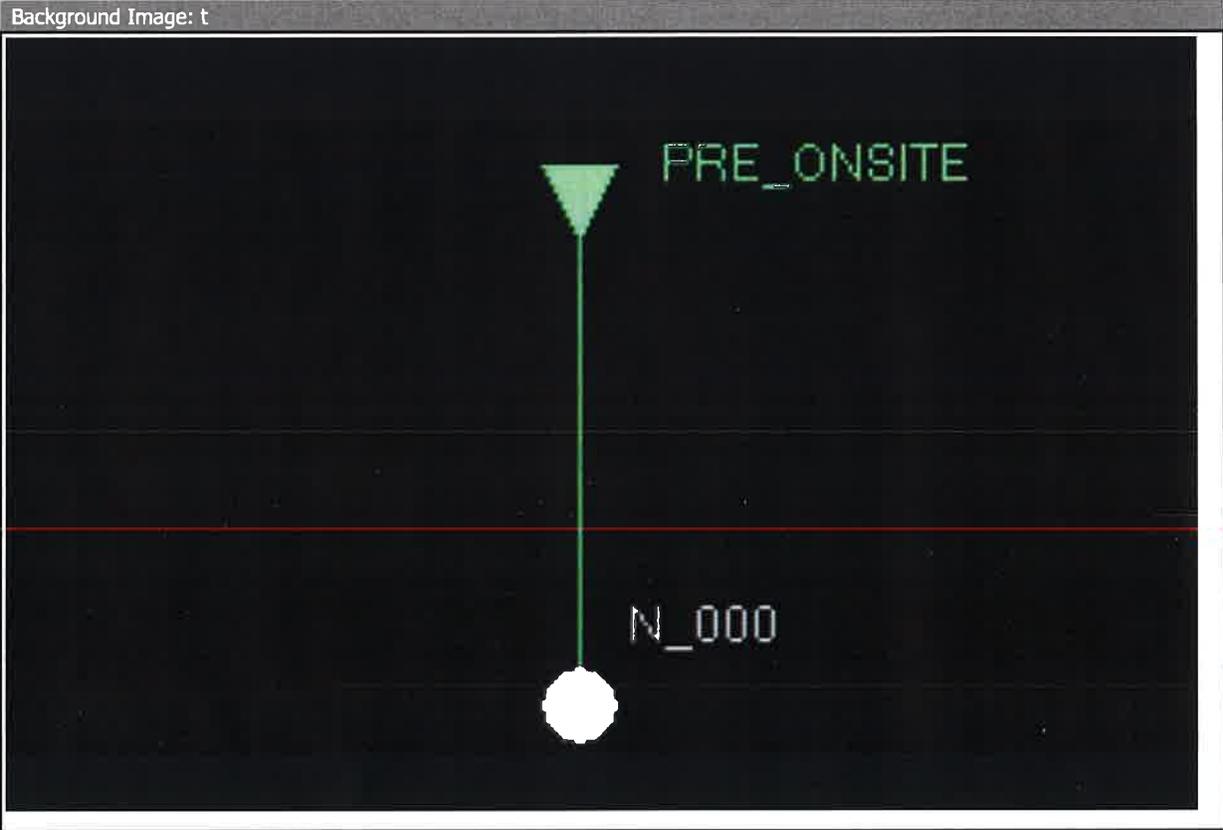
Land Use	Area (ac)	Soil Group	CN
Impervious: Paved roads, parking lots, sidewalks, roofs	0.7786	n/a	98
Open space (lawns, parks, golf courses, cemeteries, etc.) good condition - grass cover > 75%	0.2688	A/D	80
Proposed pond	0.2683	n/a	100

Total Area = 1.3157
Percent DCIA = 59.18

Composite CN	
Area (ac)	CN
1.3157	94.7

POST SUMMATION	
Total basin area	1.3157 ac
Total post condition impervious area	0.7786 ac
Total post condition impervious percentage	59.18 %

PRE CONDITION MODELING



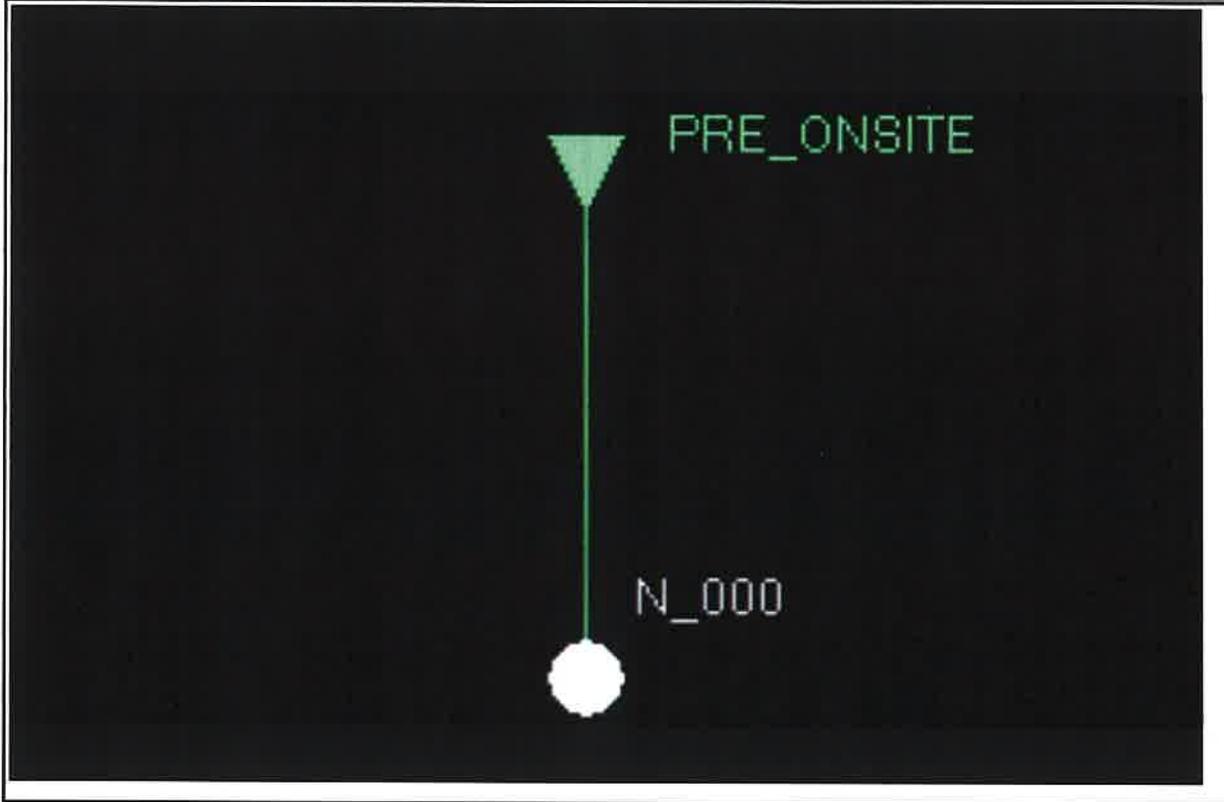
Node Max Conditions [Scenario1]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
N_000	25YR24HR	44.53	44.53	0.0039	5.98	0.00	0

Simple Basin Runoff Summary [Scenario1]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
PRE_ONSITE	25YR24HR	5.99	12.0500	9.00	6.54	1.3157	80.0	0.00	0.00

Background Image: t



Simple Basin: PRE_ONSITE

Scenario: Scenario1
Node: N_000
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.3157 ac
Curve Number: 80.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Basin to pre developed project site.

Node: N_000

Scenario: Scenario1
 Type: Time/Stage
 Base Flow: 0.00 cfs
 Initial Stage: 38.91 ft
 Warning Stage: 44.53 ft
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	38.91
0	0	0	12.0000	44.53
0	0	0	24.0000	38.91

Comment: Boundary condition
 Warning stage = grate elv of Belcher road grate inlet

Simulation: 25YR24HR

Scenario: Scenario1
 Run Date/Time: 3/4/2022 3:08:41 PM
 Program Version: ICPR4 4.07.08

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 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 24.0000 hr

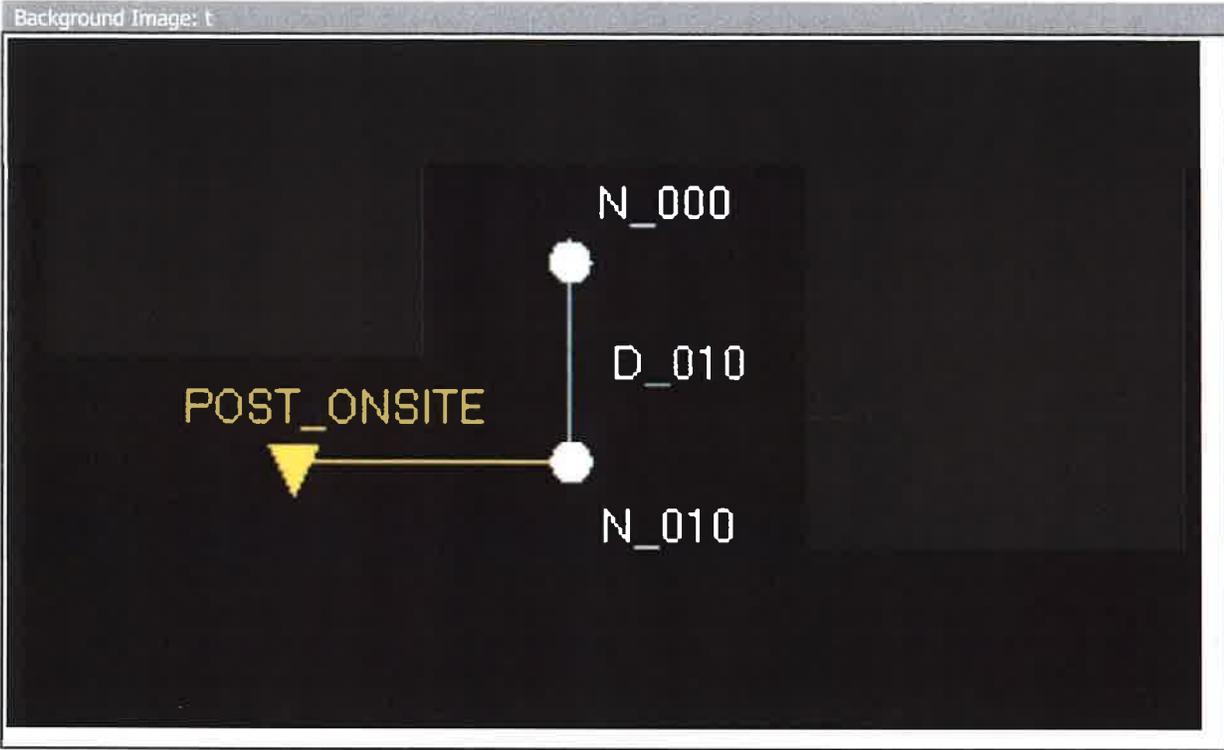
Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FLMOD
Rainfall Amount: 9.00 in
Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

POST CONDITION MODELING

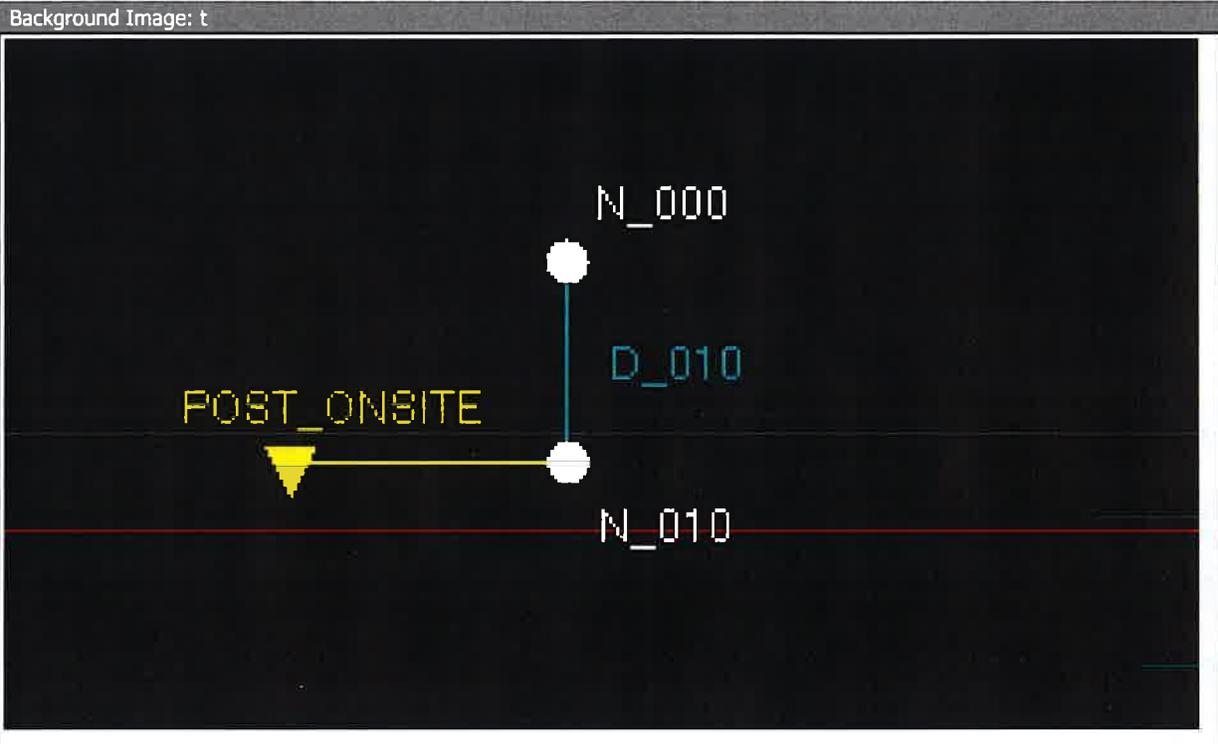


Node Max Conditions [Scenario1]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
N_000	25YR24HR	42.91	42.91	0.0028	4.47	0.00	0

Node Max Conditions [Scenario1]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
N_010	25YR24HR	47.91	47.33	0.0010	6.99	4.47	10047



Node: N_000

Scenario: Scenario1
 Type: Time/Stage
 Base Flow: 0.00 cfs
 Initial Stage: 38.91 ft
 Warning Stage: 42.91 ft
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	38.91
0	0	0	12.0000	42.91
0	0	0	24.0000	38.91

Comment: Initial stage = invert of 48" RCP. Warnig stage = crown of 48" RCP

Node: N_010

Scenario: Scenario1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 45.41 ft

Warning Stage: 47.91 ft

Stage [ft]	Area [ac]	Area [ft2]
47.91	0.2683	11687
47.50	0.2400	10454
47.00	0.2119	9230
46.50	0.1845	8037
46.00	0.1576	6865
45.50	0.1338	5828
45.00	0.1150	5009

Comment:

Drop Structure Link: D_010	Upstream Pipe	Downstream Pipe
Scenario: Scenario1	Invert: 44.00 ft	Invert: 41.00 ft
From Node: N_010	Manning's N: 0.0120	Manning's N: 0.0120
To Node: N_000	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 0	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length: 21.00 ft	Top Clip	
FHWA Code: 1	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.30	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment: BELCHER RD TRUNK LINE

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 46.38 ft	Op Table:
Control Elevation: 46.38 ft	Ref Node:
Max Depth: 9999.00 ft	Discharge Coefficients
Max Width: 1.50 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment: Control structure

Type C modified DBI

Drop Structure Comment:

Simple Basin: POST_ONSITE

Scenario: Scenario1
 Node: N_010
 Hydrograph Method: NRCS Unit Hydrograph
 Infiltration Method: Curve Number
 Time of Concentration: 10.0000 min
 Max Allowable Q: 0.00 cfs
 Time Shift: 0.0000 hr
 Unit Hydrograph: UH256
 Peaking Factor: 256.0
 Area: 1.3157 ac
 Curve Number: 94.70
 % Impervious: 0.00
 % DCIA: 0.00
 % Direct: 0.00
 Rainfall Name: 25YR24HR

Comment: Onsite basin

Simulation: 25YR24HR

Scenario: Scenario1
 Run Date/Time: 4/11/2022 3:15:07 PM
 Program Version: ICPR4 4.07.08

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]
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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:

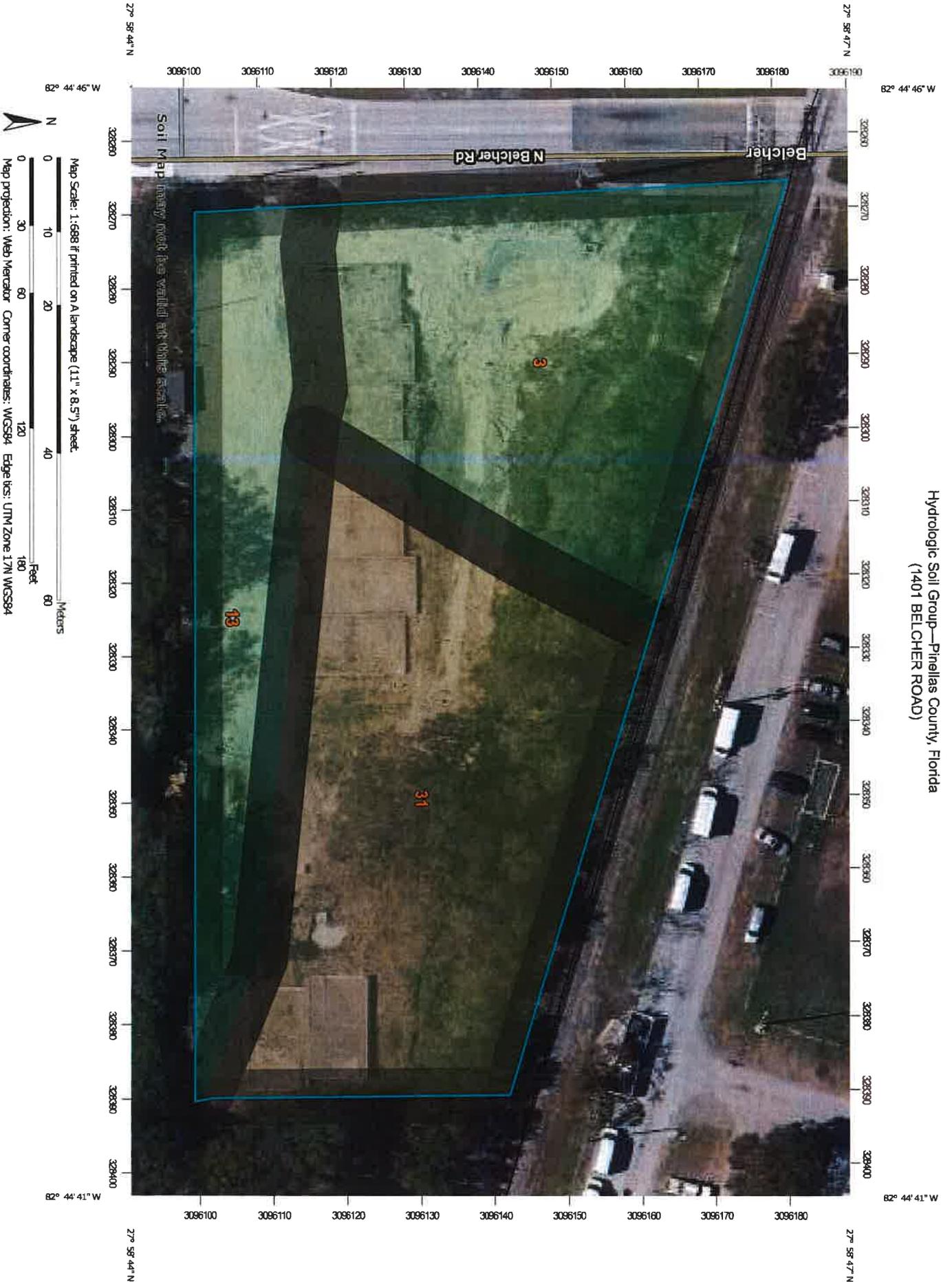
Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Smp/Man Basin Rain Global
	Opt:
Max dZ: 1.0000 ft	Rainfall Name: ~FLMOD
Link Optimizer Tol: 0.0001 ft	Rainfall Amount: 9.00 in
	Storm Duration: 24.0000 hr
Edge Length Option: Automatic	
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

NRCS HYDROLOGIC SOIL GROUP

Hydrologic Soil Group—Pinellas County, Florida
(1401 BELCHER ROAD)



Map Scale: 1:688 if printed on A landscape (11" x 8.5") sheet.
Map projection: Web Mercator Corner coordinates: WGS84 Edge UTM: UTM Zone 17N WGS84

MAP LEGEND

 Area of Interest (AOI)	 C
 Area of Interest (AOI)	 C/D
Soils	 D
Soil Rating Polygons	 Not rated or not available
 A	Water Features
 A/D	 Streams and Canals
 B	Transportation
 B/D	 Rails
 C	 Interstate Highways
 C/D	 US Routes
 D	 Major Roads
 Not rated or not available	 Local Roads
Soil Rating Lines	Background
 A	 Aerial Photography
 A/D	
 B	
 B/D	
 C	
 C/D	
 D	
 Not rated or not available	
Soil Rating Points	
 A	
 A/D	
 B	
 B/D	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Pinellas County, Florida
Survey Area Data: Version 18, Aug 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 8, 2020—Jan 27, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
3	Anclote fine sand, depressionial	A/D	0.7	35.5%
13	Immokalee soils and Urban land	A/D	0.4	19.5%
31	Wabasso soils and Urban land	C/D	0.8	45.0%
Totals for Area of Interest			1.9	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

NRCS DEPTH TO WATER TABLE

Depth to Water Table—Pinellas County, Florida
(1401 BELCHER ROAD)



MAP LEGEND

- Area of Interest (AOI)**
 Area of Interest (AOI)
- Soils**
 Soil Map Unit Polygons
- Soil Rating Lines**
 0 - 25
 25 - 50
 50 - 100
 100 - 150
 150 - 200
 > 200
- Not rated or not available**

- Water Features**
 Streams and Canals
- Transportation**
 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads
- Background**
 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Pinellas County, Florida
Survey Area Data: Version 18, Aug 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 8, 2020—Jan 27, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
3	Anclote fine sand, depressional	0	0.6	30.1%
13	Immokalee soils and Urban land	31	0.5	25.1%
31	Wabasso soils and Urban land	31	0.9	44.8%
Totals for Area of Interest			2.1	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: June

Ending Month: August

NRCS DEPTH TO SOIL RESTRICTIVE LAYER

Depth to Any Soil Restrictive Layer—Pinellas County, Florida
(1401 BELCHER ROAD)



MAP LEGEND

 Area of Interest (AOI)	 Major Roads
 Area of Interest (AOI)	 Local Roads
Soils	Background
 Soil Map Unit Polygons	 Aerial Photography
Soil Rating Lines	
 0 - 25	
 25 - 50	
 50 - 100	
 100 - 150	
 150 - 200	
 > 200	
 Not rated or not available	
Soil Rating Points	
 0 - 25	
 25 - 50	
 50 - 100	
 100 - 150	
 150 - 200	
 > 200	
 Not rated or not available	
Water Features	
 Streams and Canals	
Transportation	
 Rails	
 Interstate Highways	
 US Routes	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Pinellas County, Florida

Survey Area Data: Version 18, Aug 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 8, 2020—Jan 27, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Any Soil Restrictive Layer

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
3	Anclote fine sand, depressional	>200	0.7	31.2%
13	Immokalee soils and Urban land	>200	0.6	27.3%
31	Wabasso soils and Urban land	>200	0.9	41.5%
Totals for Area of Interest			2.1	100.0%

Description

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "greater than 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

NRCS HYDRAULIC CONDUCTIVITY

Saturated Hydraulic Conductivity (Ksat)—Pinellas County, Florida
(1401 BELCHER ROAD)



MAP LEGEND

	Area of Interest (AOI)
	Soils
	Soil Rating Lines
	Water Features
	Transportation
	Background

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Rating Lines

<= 63.2237

> 63.2237 and <= 77.6721

> 77.6721 and <= 92.0000

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Pinellas County, Florida
Survey Area Date: Version 18, Aug 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 8, 2020—Jan 27, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Saturated Hydraulic Conductivity (Ksat)

Map unit symbol	Map unit name	Rating (micrometers per second)	Acres In AOI	Percent of AOI
3	Anclole fine sand, depressional	92.0000	0.6	30.1%
13	Immokalee soils and Urban land	77.6721	0.5	25.1%
31	Wabasso soils and Urban land	63.2237	0.9	44.8%
Totals for Area of Interest			2.1	100.0%

Description

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity is considered in the design of soil drainage systems and septic tank absorption fields.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

The numeric Ksat values have been grouped according to standard Ksat class limits.

Rating Options

Units of Measure: micrometers per second

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Fastest

Interpret Nulls as Zero: No

Layer Options (Horizon Aggregation Method): Depth Range (Weighted Average)

Top Depth: 0

Bottom Depth: 72

Units of Measure: Inches