CITY OF PORT WENTWORTH

CITY COUNCIL

JUNE 24, 2021

Council Meeting Room	Regular Meeting	6:30 PM

7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

1. CALL MEETING TO ORDER

2. PRAYER AND PLEDGE OF ALLEGIANCE

3. ROLL CALL - CLERK OF COUNCIL

4. APPROVAL OF AGENDA

5. RECOGNITION OF SPECIAL GUESTS

6. ELECTIONS & APPOINTMENTS

7. ADOPTION OF MINUTES

A. City Council - Regular Meeting - May 27, 2021 6:30 PM

B. Executive Session - May 27, 2021

8. COMMUNICATIONS & PETITIONS

A. One Chatham

B. Lemonade Day

C. Greenline Architecture, Inc.

D. Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates

E. City Manager Updates

9. COMMITTEE REPORTS

A. Committee Reports

10. CONSENT AGENDA

A. Yearly Contract Renewal by and between Senior Citizens, Inc. and the City of Port Wentworth

B. Bonnybridge Secondary Outfall Improvements Pay Request No. 2

11. UNFINISHED BUSINESS

12. NEW BUSINESS

A. Temsco Maintenance Agreement

B. Site Plan Review Application (General) PIN # 7-0035-01-007 Crossgate Road

- Public Hearing
- Action

C. Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard

- Public Hearing
- Action

D. Site Plan Review Application (Specific) 7-0977-01-028 Lineage

- Public Hearing
- Action

13. RESOLUTIONS/ORDINANCES/PROCLAMATIONS

A. Ordinance No. 21-01, Budget FY22, Second Reading

- Public Hearing
- Action

14. EXECUTIVE SESSION

15. PUBLIC COMMENTS - REGISTERED SPEAKERS

16. ADJOURNMENT

CITY OF PORT WENTWORTH

CITY COUNCIL

MAY 27, 2021

Council Meeting Room | **Regular Meeting** | **6:30 PM**

7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

1. CALL MEETING TO ORDER

Mayor Gary Norton called the meeting to order.

2. PRAYER AND PLEDGE OF ALLEGIANCE

Reverend Paul Mongin, Pastor of First Baptist Church of Port Wentworth, led in Prayer and Mayor Norton led in the Pledge of Allegiance.

3. ROLL CALL - CLERK OF COUNCIL

Attendee Name	Title	Status	Arrived
Linda Smith	Mayor Pro Tem	Present	
Donald Hodges	Council Member	Present	
Mark Stephens	Council Member	Present	
Lynwood Griner	Council Member	Absent	
Glenn Jones	Council Member	Present	
Thomas Barbee	Council Member	Present	
James L. Coursey	City Attorney	Present	
Edwin L. Booth	City Manager	Present	
Shanta Scarboro	Clerk of Council	Present	
Brian Harvey	Director of Development Services	Present	
Lance Moore	Chief of Fire Operations	Present	
Yolanda Irizarry	Director of Human Resources	Present	
Tiffany Lancaster	Director of Leisure Services	Absent	
Matt Libby	Chief of Police	Absent	
Chris Lee	Project Manager	Present	
Gary Norton	Mayor	Present	

4. APPROVAL OF AGENDA

Council Member Thomas Barbee made a motion to approve the agenda with the following addition:

1. Add Item #12K - Property Acquisition.

Seconded by Council Member Mark Stephens. Vote was unanimous.

5. RECOGNITION OF SPECIAL GUESTS

City of Port Wentworth Fire Department Chief Lance Moore, recognized Fire Fighter Tyler Volz for a job well done and then promoted him to Lieutenant.

City of Port Wentworth Police Department Major Lee Sherrod, recognized Officer Meeks for the work he completed in the Rice Creek neighborhood for community policing and booking a perpetrator for a crime.

Minutes Acceptance: Minutes of May 27, 2021 6:30 PM (Adoption of Minutes)

Council Member Glenn Jones congratulated Officer Meeks and thanked him for his continued good police work.

6. ELECTIONS & APPOINTMENTS

A. Appointment of Certified Public Accounting Firm Holland, Bromley, Barnhill, & Brett LLP

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Thomas Barbee, Council Member
SECONDER:	Mark Stephens, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

7. ADOPTION OF MINUTES

A. City Council - Regular Meeting - Apr 22, 2021 6:30 PM

RESULT:	**ACCEPTED [UNANIMOUS]**
MOVER:	Linda Smith, Mayor Pro Tem
SECONDER:	Thomas Barbee, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

8. COMMUNICATIONS & PETITIONS

Mayor Gary Norton announced to City residents that a link for the Community Survey provided by the Coastal Regional Commission (CRC) can be found on the City of Port Wentworth website and encouraged all residents to take the time and complete the survey.

A. DISCUSSION - City Manager Updates

B. DISCUSSION - The American Rescue Plan Act

C. DISCUSSION - Offer to Purchase Wireless Ground Easements

D. DISCUSSION - Chapter 3, Port Wentworth, Georgia Code of Ordinances, Alcoholic Beverages

9. COMMITTEE REPORTS

A. Committee Reports

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Thomas Barbee, Council Member
SECONDER:	Mark Stephens, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

10. CONSENT AGENDA

There were none to report.

11. UNFINISHED BUSINESS

There were none to report.

Minutes Acceptance: Minutes of May 27, 2021 6:30 PM (Adoption of Minutes)

12. NEW BUSINESS

A. Amendment of the City of Port Wentworth Fire Protection Fee Ordinance

City of Port Wentworth Fire Department Chief Lance Moore was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Mark Stephens, Council Member
SECONDER:	Donald Hodges, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

B. Memorandum of Understanding (MOU) with Savannah-Chatham Narcotics Unit

City of Port Wentworth Police Department Major Lee Sherrod was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Donald Hodges, Council Member
SECONDER:	Mark Stephens, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

C. Proposal for Professional Services for the Port Wentworth Sewer Pump Station Capacity Study

Jennifer Oetgen, PC with Hussey Gay Bell was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Mark Stephens, Council Member
SECONDER:	Donald Hodges, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

D. Zoning Map Amendment Varnedoe-Wiggins Tract Highway 21 2nd Reading

Chad Zittourer was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [4 TO 1]**
MOVER:	Donald Hodges, Council Member
SECONDER:	Thomas Barbee, Council Member
AYES:	Smith, Hodges, Jones, Barbee
NAYS:	Stephens
ABSENT:	Griner

E. Subdivision Application Mulberry Tract Phase II FINAL PLAT

Neil McKenzie, P.E. Coleman Company was present to answer any questions of Mayor and Council.

Minutes Acceptance: Minutes of May 27, 2021 6:30 PM (Adoption of Minutes)

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Mark Stephens, Council Member
SECONDER:	Glenn Jones, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

F. Subdivision Application Lakeside at Rice Hope Phase 1C-2 Final Plat

Lamar Mercer, P.E. Thomas & Hutton was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Donald Hodges, Council Member
SECONDER:	Linda Smith, Mayor Pro Tem
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

G. Site Plan Review Application (General) 7-0975-01-025 Tract B

Neil McKenzie, P.E. Coleman Company was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Donald Hodges, Council Member
SECONDER:	Thomas Barbee, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

H. Site Plan Review Application (Specific) Magellan Blvd Home 2 Suites

Pete Schoenauer, Tidewater Engineering, Inc. was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Mark Stephens, Council Member
SECONDER:	Donald Hodges, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

I. Site Plan Review Application (General) 7-0977-01-028 Lineage

Chad Zittrouer, Kern & Co., LLC was present to answer any questions of Mayor and Council.

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RESULT:	**APPROVED [3 TO 2]**
MOVER:	Donald Hodges, Council Member
SECONDER:	Linda Smith, Mayor Pro Tem
AYES:	Smith, Hodges, Jones
NAYS:	Stephens, Barbee
ABSENT:	Griner

J. Site Plan Review Application (General) 7-0907-01-003 Novare

Scott Monson, Thomas & Hutton was present to answer any questions of Mayor and Council.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Linda Smith, Mayor Pro Tem
SECONDER:	Donald Hodges, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

K. Property Acquisition

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Thomas Barbee, Council Member
SECONDER:	Donald Hodges, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

13. RESOLUTIONS/ORDINANCES/PROCLAMATIONS

A. Ordinance No. 21-01, Budget FY22, First Reading

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Mark Stephens, Council Member
SECONDER:	Donald Hodges, Council Member
AYES:	Smith, Hodges, Stephens, Jones, Barbee
ABSENT:	Griner

14. EXECUTIVE SESSION

A. Property Acquisition

Mayor Pro Tem Linda Smith made a motion to adjourn into Executive Session. Seconded by Council Member Donald Hodges. Vote was unanimous.

Council Member Mark Stephens made a motion to adjourn Executive Session. Seconded by Council Member Donald Hodges. Vote was unanimous.

Council Member Glenn Jones made a motion to reconvene the regular meeting. Seconded by Council Member Donald Hodges. Vote was unanimous.

15. PUBLIC COMMENTS - REGISTERED SPEAKERS

Murray Marshall, BEP Rice Hope, made a comment to Mayor and Council regarding the importance of the Community Survey provided by the Coastal Regional Commission (CRC) and

Minutes Acceptance: Minutes of May 27, 2021 6:30 PM (Adoption of Minutes)

the need to get the word out to City residents via the monthly utility bill or however possible and as quickly as possible.

Georgia Benton, 135 Saussy Road, thanked Mr. Marshall for his comment and also stressed the importance of getting the community more involved and asked for more transparency among the City and the residents.

Council Member Donald Hodges announced his resignation from serving as District 1 Councilman with the City of Port Wentworth and thanked the community for the opportunity to serve, as well as the fine employees of the City.

16. ADJOURNMENT

There being no further business, Council Member Donald Hodges made a motion to adjourn. Seconded by Council Member Mark Stephens. Vote was unanimous.

_____

Mayor Gary Norton

The foregoing minutes are true and correct and approved by me on this _____ day of _____, 2021.

ATTEST:

_____

Shanta M. Scarboro, Clerk of Council

Minutes Acceptance: Minutes of May 27, 2021 6:30 PM (Adoption of Minutes)

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Administration
Category: Presentation
Prepared By: Shanta Scarboro
Department Head: Shanta Scarboro

AGENDA ITEM (ID # 2459)

DOC ID: 2459

One Chatham

Issue/Item:
Chatham County Commission Chairman Chester Ellis unveiled a new initiative on Friday, June 10, 2021 aimed to tackle several prominent issues across Chatham County. The One Chatham initiative will address everything from stormwater drainage and road projects to homelessness.

Ellis said One Chatham is a collaborative and cooperative effort between the county and all municipalities in the county, as well as the Savannah-Chatham Public School System and other community stakeholders.

"We are rolling out One Chatham to make sure that we are good stewards of the resources that the citizens of Chatham County have given us to work with," Ellis said during a press conference on June 10th.

Background:
Since January the county has been meeting with all the mayors in the county, as well as city and county managers, business leaders and the Savannah Area Chamber of Commerce, for input.

During those meetings mayors and managers were asked to identify troubled areas or spots that need attention. Along with stormwater drainage, road projects and homelessness, One Chatham will also assess recreation projects, such as bike trails, as well as affordable housing.

Ellis hopes once the project list is set, a budget can be created and by December to have a better plan of what One Chatham will accomplish.

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Administration
Category: Presentation
Prepared By: Shanta Scarboro
Department Head: Shanta Scarboro

AGENDA ITEM (ID # 2458)

DOC ID: 2458

Lemonade Day

Issue/Item:
Jenny Rutherford Real Estate would like to address Mayor and Council to talk more about Lemonade Day, what it is, how it will impact our community, and how people can get involved. Ms. Rutherford is also interested in getting a mayoral proclamation making August 21st, 2021 Lemonade Day! Jenny Rutherford Real Estate is the program's Main Squeeze Sponsor and is excited to share this opportunity!

Background:
Lemonade Day is a free educational initiative that introduces youth to entrepreneurship, teaching them how to start, own, and operate their own business -a lemonade stand. Lemonade Day teaches skills that will prepare youth for both business and life. Lemonade Day culminates in the real world experience of youth going into business by setting up their lemonade stand. They are taught to spend some, save some, and share some of their profits, which teaches them financial literacy and the importance of giving back to a charity of their choice.

It all started in 2007 in Houston, Texas. Over the past 14 years, Lemonade Day has reached over 1 million youth in over 60 cities across the world! Each year, in participating cities, youth have the opportunity to experience and gain skills in entrepreneurship and forming relationships with their community by setting up their business during their city's community-wide Lemonade Day.

Recommendation:
Agree to make August 21, 2021 Lemonade Day and provide the requested Mayoral Proclamation.

ATTACHMENTS:

- Lemonade Day!

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Administration
Category: Presentation
Prepared By: Shanta Scarboro
Department Head: Shanta Scarboro

AGENDA ITEM (ID # 2460)

DOC ID: 2460

Greenline Architecture, Inc.

Issue/Item:
Monica Mastrianni, AIA President of Greenline Architecture, Inc. will provide an update to Mayor and Council on the proposed campus master plan for the City of Port Wentworth Fire and Police Administrative Building and the planned Veterans Memorial.

Background:
On December 17, 2020 Council approved the Achitectural Proposal and Acceptance presented by Greenline Architecture, Inc. to provide design services for a new fire station and municipal building for the City of Port Wentworth. The proposal further outlines the scope of work, basic services and fee summary.

Recommendation:
Council is asked to provide feedback related to the building and memorial design plans.

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Administration
Category: Presentation
Prepared By: Shanta Scarboro
Department Head: Shanta Scarboro

AGENDA ITEM (ID # 2461)

DOC ID: 2461

Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates

Issue/Item:
Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates.

Background:
During the February 25, 2021 regular City Council meeting City Attorney, James L. Coursey, Jr. informed Mayor and Council of the State of Georgia requirements to implement an Impact Fee for commercial dwellings. One of those requirements was the need to form an Impact Fee Advisory Committee (IFAC) that must meet on two (2) separate occasions to be in compliance with state law.

As a result, each City Council Member was asked to nominate one (1) resident or business owner within City limits that would be willing to serve on the committee. Each Council Member followed suit and the first IFAC meeting was held on Wednesday, April 28, 2021 6:00 p.m. in the 2nd floor Council Chambers of City Hall. The second meeting was held on Wednesday, May 5th 6:00 p.m., also at City Hall.

Due to the success of both meetings the Impact Fee Advisory Committee was asked to also serve on the Coastal Regional Commission (CRC) panel for the Comprehensive Plan Review. The panel has since held three (3) different stakeholder meetings to discuss future development of the City.

One of the outcomes of the stakeholder meetings was the requirement from the Georgia Department of Community Affairs (DCA) which spells out the need for a city to complete and Impact Fee Study *before* accessing Impact Fees.

After much research, City Manager Edwin Booth was able to connect with Duncan Associates, a firm headquartered in Austin, Texas that was willing to put together a proposal to develop a parks and public safety impact fee study for the City of Port Wentworth.

Recommendation:
Approve Duncan Associates to moved forward with conducting the Impact Fee Study. If approved, a formal contract will follow.

ATTACHMENTS:

- Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (PDF)



Proposal for

Impact Fee Study for Port Wentworth, Georgia

Submitted by

Duncan Associates

June 14, 2021

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

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- Project Team 10

Duncan Associates
Clancy Mullen, President
17409 Rush Pea Circle
Austin, Texas 78738
(512) 423-0480
clancy@duncanassociates.com

Introduction

June 14, 2021

Ed Booth, City Manager
City of Port Wentworth
514 W. Maple Street, Suite 104
Cumming, GA 30040

RE: Impact Fee Proposal

On behalf of Duncan Associates, I am pleased to submit this proposal to develop a parks and public safety impact fee study for the City of Port Wentworth. We are well-qualified for this assignment.

- **Firm experience:** Duncan Associates has prepared over 400 impact fee studies for over 100 clients in 24 states. In Georgia, we have prepared impact fee studies for the City of Cumming, the City of Atlanta, the Consolidated City and County of Columbus, Forsyth County, Gwinnet County, and the City of Milton.

- **Experienced staff:** The personnel who would work on this project are the same ones who have worked on most of the firm's impact fee projects. As a small firm, we offer exceptional continuity of service. The firm's key impact fee professionals who will be assigned to this project, Clancy Mullen, Jody Maas and Kirk Bishop, have all been with the firm for more than 20 years.

- **Legal defensibility:** We have a proven track record of producing impact fee studies that have withstood legal challenge. None of our studies have been successfully challenged in court. We have served as expert witnesses in successfully defending legal challenges.

Our firm was incorporated in Texas in 1997 as James Duncan and Associates, Inc., an "S" Corporation doing business as Duncan Associates. We are not a subsidiary of another firm. We have been in business continuously since 1987. Our headquarters is in Austin, Texas, and we have a branch office in Chicago, Illinois. Our principal address is 17409 Rush Pea Circle, Austin, Texas 78738.

I am the firm's authorized representative for this project, as well as the proposed project manager. My email address is clancy@duncanassociates.com and my phone number is (512) 423-0480. Please contact me if you have any questions about our proposal

Sincerely,
DUNCAN ASSOCIATES



Clancy Mullen
President

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Scope of Services and Budget

Scope of Services

The following scope of work is proposed for the development of an impact fee study for the City of Port Wentworth for parks and public safety.

Understanding and Approach

The proposed services include assistance with the preparation of the Impact Fee Capital Improvements Plan and impact fee ordinance. These tasks are priced separately in case the City decides to handle them without consultant assistance. It is our understanding that the City has identified future parks and public safety improvements, and has adopted those projects into its comprehensive plan. However, the Capital Improvements Element (CIE) also requires some other elements, including a 20-year projection of capital facility needs attributable to accommodating the impacts of projected development, and a detailed 5-year work program and projection of 20-year needs. The levels of service used in the impact fee calculations also need to be included in the CIE to comply with the *Development Impact Fee Act*.

Fundamentally there are only two basic types of impact fee methodologies: "standards-based" (including variations referred to as consumption-based and incremental expansion), and "plan-based" (also called improvements-driven). A standards-based methodology uses a system-wide level of service standard, such as acres per 1,000 people, determines the cost to maintain the current level of service, and is not tied to a specific master plan, list of improvements, or set of growth forecasts. In contrast, a plan-based methodology typically uses a facility-specific level of service standard (e.g., all road segments shall function at LOS D or better). As the name implies, it needs to be based on a long-range master plan that establishes a strong nexus between the planned improvements and the growth anticipated over the same planning period.

The standards-based methodology is the workhorse of impact fee methodologies, and is almost always used for the so-called "soft" facilities, including parks and public safety. It is virtually impervious to legal challenge if done correctly and if the fees are not based on a higher level of service than is currently being provided to existing development. It also has the advantage of not being tied to a master plan that would require changes to the fees whenever the plan changes, providing the flexibility to accommodate changing needs and funding priorities. We propose to develop the fees using the standards-based methodology.

Under the standards-based methodology, the fees are based on the cost to maintain the existing level of service, not on the cost to fund the planned improvements. With this methodology, the CIE functions primarily as a spending guide, because the fees can only be spent on projects identified in the CIE.

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Task 1: Project Organization/Data Collection

This task will involve data collection and project organization for developing the impact fee study for parks and public safety facilities. Upon notice to proceed, the consultant will provide an initial data needs list. The consultant will work with the City's project manager to schedule a tele- or video-conference with key members of City staff. During the meeting, the consultant will gather available information related to the project, solicit agreement on protocol for consultant/staff communications, discuss any policy issues involved in developing the impact fee program, coordinate staff and consultant responsibilities, and fine-tune the project schedule. The City should provide the consultant, without charge, copies of all relevant plans, studies and documents needed to perform the scope of work. At the conclusion of the task, the consultant will prepare a memorandum summarizing the organizational framework for the project and listing any additional data to be provided by the City.

Deliverables: *Project Organization Teleconference*
Project Organization Memorandum

Task 2: Staff Review Draft

This task involves the calculation of maximum impact fee schedules for parks and public safety. The fee calculations involve (1) the level of service (LOS) values for each service area, (2) a demand equivalency table that identifies the demand for service resulting from different land uses (e.g., single family dwelling unit or 1,000 square feet of shopping center space), (3) the average capital cost per standard unit of demand for service (called a "service unit") and (4) revenue credits by which the gross fee is reduced to account for future revenue that will be generated by new development and used for the same type of growth related capital improvements as the impact fee. The result of combining these factors is the calculation of the maximum impact fee schedule that may be charged.

The first step is to quantify the existing LOS and to determine what will be the adopted LOS for each service area. The Georgia Development Impact Fees Act requires that the "impact fees shall be calculated on the basis of levels of service … that are applicable to existing development as well as the new growth and development." This requirement is met if the adopted LOS does not exceed the existing LOS in the service area. The consultant will recommend the LOS value to be adopted for each service area and describe the basis for the recommendation.

Revenue credits are generally required for existing deficiencies or outstanding debt. If there are existing deficiencies, the impact fees must be reduced to account for the fact that new development will likely generate some of the non-impact-fee funds that will be used to remedy the deficiencies. Otherwise, new development would be paying more than its fair share through multiple streams of taxes and impact fees. A similar consideration is future payments to retire outstanding debt. To the extent that facilities that are providing the existing LOS to existing development have not been fully paid for, new development will be helping to pay for the LOS for existing development through future tax payments used to retire the debt. Consequently, the impact fees should be reduced to ensure that new development is not charged more than its proportionate share. Revenue credits may also be required for anticipated future grant funding or dedicated local capital funding.

The impact fee study will meet all of the requirements of the *Development Impact Fees Act*. The fees calculated will not exceed a proportionate share of the cost of system improvements, nor will they be

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

based on levels of service higher than those provided to existing development. They will be based on actual system improvement costs or reasonable estimates of such costs, and will be net of credits for the future payments of taxes, assessments, user fees and intergovernmental transfers generated by new development and available to fund the same types of facilities.

Deliverable: *Staff Review Draft Impact Fee Study*

Task 3: Public Review Draft

Following receipt of comments on the staff review draft, the consultant will make appropriate modifications to the impact fee study and provide a revised draft suitable for public distribution.

Deliverable: *Public Review Draft Impact Fee Study*

Task 4: CIE/Draft Ordinance (optional)

Concurrent with the public review draft, consultant will also deliver a draft Capital Improvements Element (CIE) and draft impact fee ordinance that reflect the data and conclusions of the impact fee study. The CIE will include the elements required by the Department of Community Affairs, and the draft ordinance will include the fees calculated in the impact fee study as well as provisions required to comply with the *Development Impact Fee Act* and impact fee best practices.

Deliverables: *Draft Capital Improvements Element*
Draft Impact Fee Ordinance

Task 5: Meetings and Presentations

The consultant will present the study findings to local groups and/or the City Council as appropriate. The number and types of meetings to be attended by the consultant will be determined by the City.

Deliverable: *Attendance at Public Meetings*

Task 6: Final Report and Documents

Following public meetings, but prior to the adoption hearing, the consultant will make any adjustments to the impact fee study that are warranted to address issues raised during public meetings. Consultant will provide the final study and supporting documents.

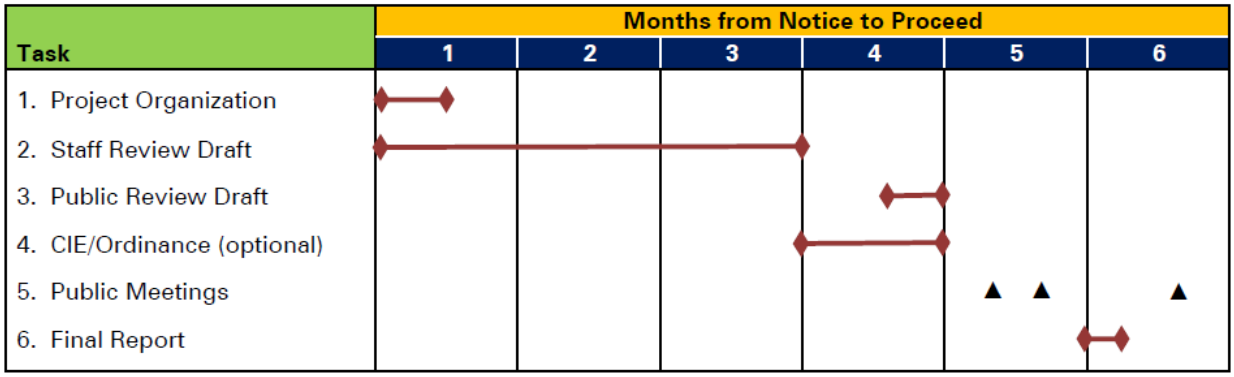
Deliverables: *Final Draft Impact Fee Study (Adobe Acrobat format)*
Supporting Documents (Word and Excel files)

Time Schedule

The initial data needs list will be provided within a week of receipt of the notice to proceed (NTP). The project organization conference call should be able to be scheduled within the first 10 days, and

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

the project organization memo within the first two weeks after NTP. Assuming all required data from the City is received by the consultant within the first six weeks, the consultant will deliver the staff review draft within three months of NTP. The remainder of the schedule will be determined largely by the time required for staff to comment on the staff review draft, the extent of changes requested, the amount of public participation desired, and the scheduling of meetings. An ambitious but achievable schedule would be to get to adoption of the updated fees within another three months, or by six months from NTP. The proposed scope of services is anticipated to take approximately 6 months from notice to proceed, as illustrated in the following flowchart. For example, if NTP is issued by July 1, the updated fees could potentially be adopted by the end of 2021 or early in 2022.



Cost Proposal

The consultant cost for the proposed scope of services, including the optional Task 4, is $36,250, as broken down by task below. Without Task 4, the total would be $32,250. The City would be billed monthly, based on the percentage completion of each task.

Consultant in-person attendance at meetings and presentations would be billed at a flat rate of $3,500 per meeting, inclusive of all travel time and expenses. Consultant remote participation in public meetings would be billed at a flat rate of $1,750 per meeting. The City would only be billed for meetings actually attended. The budget for Task 4 would accommodate two in-person meetings, four remote meetings, or one in-person meeting and two remote meetings.

Task	Amount
1. Project Organization	$1,750
2. Staff Review Draft	$17,500
3. Public Review Draft	$3,500
4. CIE/Ordinance (optional)	$4,000
5. Public Meetings*	$7,000
6. Final Report	$2,500
Total, with optional services	$36,250
Total, without optional services	$32,250

* In-person meetings at $3,500 each, remote meetings at $1,750 each

Additional meeting attendance would be billed at the same flat rates per meeting. Other services would be provided on a time-and-expense basis, or for a fixed-fee as may be negotiated with the City. Duncan Associates' standard rate is $175 per hour.

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

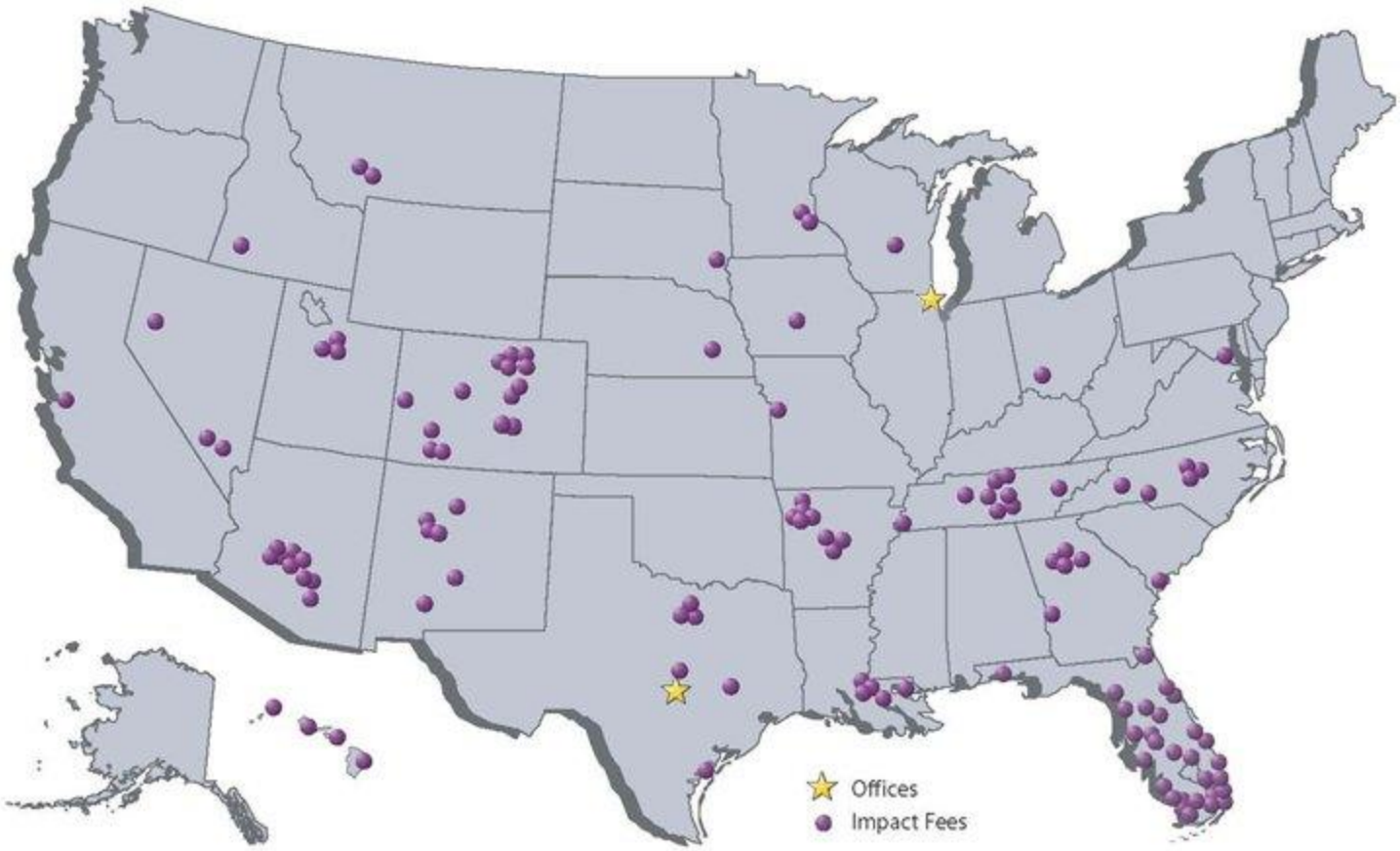
Experience and Qualifications

Overview

Duncan Associates is a consulting firm with a national practice specializing in plan implementation, focusing primarily on impact fee studies. The firm was established in Austin, Texas in 1987. There are currently three principals/owners: Clancy Mullen, Kirk Bishop, and Jody Maas.

Duncan Associates has become one of the nation's leading consultants in the field of infrastructure financing and impact fees. From our principal office in Austin, Texas, the firm has drafted over 400 impact fee studies for 134 clients in 25 states covering the full range of fee categories, methodologies, and structures. In Georgia, we have most recently prepared impact fee studies for the City of Atlanta in 2021 and the City of Cumming in 2018.

Current and Previous Impact Fee Clients



Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Impact Fee Client Matrix

State	Client	Feas-ibility	Roads	Water	Waste-Water	Storm-Water	School	Parks	OS/ Trails	Lib.	Fire	EMS	Police	Jail	Pub. Bldg	Solid Wste
AR	Cabot	•	•		•			•		•	•					
	Conway		•					•								
	Elkins			•	•											
	Fayetteville		•	•	•			•			•		•			
	Farmington			•	•											
	Greenland			•	•											
	Little Rock		•													
	Rogers		•													
	Sherwood		•					•								
AZ	Apache Junction	•	•				•	•					•		•	
	Avondale		•	•	•	•		•		•	•		•			
	Buckeye	•														
	Chandler		•					•		•	•		•		•	
	Florence		•	•	•			•		•	•		•			
	Mesa	•	•	•	•	•		•		•	•		•		•	
	Oro Valley		•					•					•			
	Peoria		•	•	•			•		•	•		•			
	Phoenix	•	•			•		•	•	•	•		•			
	Tucson	•	•					•			•		•		•	
CA	Monterey	•														
CO	Adams County		•													
	Colorado Springs	•	•					•			•		•			
	Commerce City		•													
	Durango		•													
	Eagle County		•				•									
	El Paso County		•													
	Fort Collins							•			•		•		•	
	Greeley	•	•	•	•	•		•			•		•			
	Larimer County	•	•					•								
	La Plata County		•													
	Mesa County		•													
	San Miguel County						•									
	Weld County		•			•									•	
	Windsor		•													
FL	Bonita Springs		•					•								
	Brevard County							•			•		•			
	Broward County						•									
	Cape Coral		•	•	•											
	Citrus County	•	•				•	•		•	•	•	•		•	
	Collier County							•						•		
	Daytona Beach	•	•					•			•		•		•	
	DeLand							•			•		•		•	
	Destin		•					•		•			•			
	Fort Lauderdale							•								
	Fort Myers Beach	•														
	Highlands County		•				•	•		•	•	•	•	•		
	Hillsborough County		•				•	•			•					
	Indian River County		•				•	•		•	•		•	•	•	•
	Lake County		•					•		•	•					
	Lee County		•				•	•			•	•				
	Levy County		•								•					
	Martin County								•	•					•	
	Miami/Dade County						•	•								
	Nassau County							•			•		•		•	
	New Smyrna Beach		•													
	North Bay Village												•			
	North Port		•					•			•		•		•	•
	Okeechobee County		•				•				•	•	•			
	Orange County		•				•	•			•		•			
	Osceola County										•					
	Palm Beach Gardens		•					•			•		•			
	Plantation							•		•	•		•		•	
	Polk County							•		•	•	•	•	•		
	St. Johns County	•														
	Sarasota County		•					•		•	•	•	•	•	•	
	Sweetwater		•					•					•		•	
	Volusia County		•													
	Weston							•			•		•		•	
	Winter Haven		•	•	•			•			•		•			

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Impact Fee Client Matrix, Continued

State	Client	Feas-ibility	Roads	Water	Waste-Water	Storm-Water	School	Parks	OS/ Trails	Lib.	Fire	EMS	Police	Jail	Pub. Bldg	Solid Wste
GA	Atlanta	•	•	•	•	•		•			•		•			
	Columbus		•	•	•											
	Cumming		•					•			•		•			
	Forsyth County		•					•		•	•					
	Gwinnett County		•					•								
	Milton	•														
HI	Hawaii County		•		•			•			•		•			•
	Kauai County		•													•
	Maui County			•	•		•				•		•			•
	State of Hawaii						•									
IA	West Des Moines							•								
ID	Boise/Ada County		•													
IN	Dearborn County										•					
LA	Ascension Parish	•	•													
	East Baton Rouge Parish		•													
	LA Dept. of Transp.	•	•													
	St. Tammany Parish	•	•			•										
	West Feliciana Parish	•		•												
MD	MD/Nat'l Capitol Plan Com	•														
MN	MN Dept. of Agriculture	•														
	Mpls./St. Paul Met Council				•											
MO	Kansas City		•													
MT	Bozeman		•	•	•						•					
	Gallatin County		•				•				•					
NC	Apex							•								
	Cary		•													
	Charlotte	•														
	Hickory	•														
	Raleigh		•					•								
NE	Lincoln	•	•	•	•			•								
NM	Albuquerque	•	•			•		•	•		•		•			
	Bernalillo County	•	•			•		•	•		•		•			
	Las Cruces	•	•			•					•		•			
	Rio Rancho	•	•			•		•	•		•		•			
	Ruidoso	•	•	•	•											
	Santa Fe	•	•	•	•			•			•		•			
NV	Clark County		•					•			•		•			
	Las Vegas	•	•													
	Reno/Sparks/Washoe Co	•	•													
OH	Hamilton Twp/Warren Co		•					•			•		•			
SC	Hilton Head	•	•					•			•		•		•	
SD	Sioux Falls	•	•	•												
TN	Brentwood		•													
	Columbia		•					•			•		•			
	Dickson County	•														
	Farragut		•													
	Franklin	•	•				•	•		•	•		•		•	•
	LaVergne		•	•				•								
	Memphis/Shelby County	•														
	Nolensville		•													
	Portland			•	•			•			•		•			
	Spring Hill		•													
	Smyrna		•					•			•					
	Thompson's Station		•													
	White House		•					•			•		•			
TX	Arlington	•	•	•	•											
	College Station	•		•	•											
	Corpus Christi	•														
	Denton	•		•	•											
	Flower Mound			•	•	•										
	Georgetown	•		•	•											
	Greenville	•														
UT	Sandy City		•	•		•		•	•		•		•			
	Wasatch Front		•													
	West Valley City		•			•		•			•		•			
Total		**44**	**91**	**28**	**27**	**14**	**16**	**65**	**6**	**18**	**56**	**6**	**50**	**5**	**19**	**6**

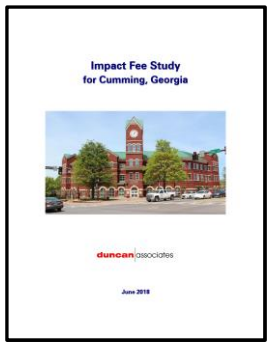
Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Recent Projects

Two of our recent Georgia impact fee projects are described below.

Cumming, Georgia

In 2018, Duncan Associates was retained by the City of Cumming, the county seat of Forsyth County, to develop impact fees for roads, parks, and public safety (police) facilities. The major recommendations of the study were to use a city-wide service area and benefit district for all three fee types. base the road fees on a system-wide capacity-to-demand ratio of 1.25, and assess park impact fees on both residential and nonresidential development, to account for the use of City park facilities by nonresidents who work, shop, or participate in other activities in the city. While assessing park impact fees on nonresidential development is less common than assessing only residential, the City has about five times the nonresidential square feet per capita as the county. Workers, shoppers and visitors to these nonresidential developments also use City parks, even though they may not live in the City. The City of Atlanta also employs this approach. The proposed fees were adopted by the City.

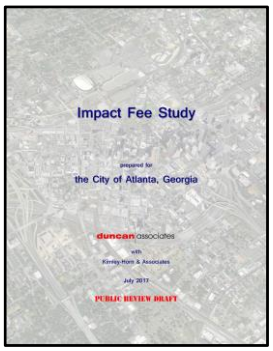


Apr 2018 – Nov 2018

Contact:
Scott H. Morgan, Director
Dept. of Planning & Zoning
100 Main Street
Cumming, Georgia 30040
770-781-2024
s.morgan@cityofcumming.net

Atlanta, Georgia

For Atlanta, the capital of Georgia, Duncan Associates designed a multi-facility impact fee system in 1996 that promoted local growth management objectives relating to affordable housing, economic development and multi-modal transportation. The study calculated impact fees for road, park, drainage, fire and police facilities and connection fees for water and wastewater facilities. Throughout the study, every attempt was made to design fees that reflected local characteristics and concerns of Atlantans. For example, development downtown or near MARTA stations was given a significant reduction in road impact fees because of their greater use of transit and lesser use of roads. Duncan Associates updated the City's impact fees for roads, parks, fire and police facilities in 2010 and 2017, but neither update was adopted. Those updates included a revised approach to road fees that explicitly incorporated multi-modal improvements such as sidewalks and bike lanes. The 2021 update was adopted in February of this year.



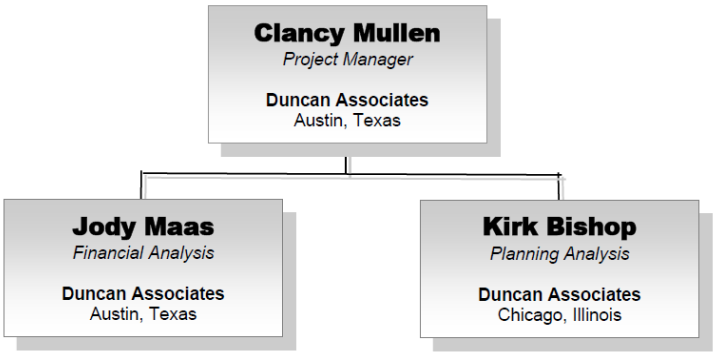
Feb 2020 – Feb 2021

Contact:
Tiffani Cope, Impact Fee Coord.
Department of Planning
55 Trinity Ave. SW, Suite 1450
Atlanta GA 30303-3520
404-719-2752
tcope@atlantaga.gov

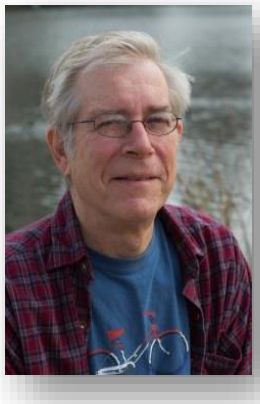
Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Project Team

The Duncan Associates' team for this project will be headed by Clancy Mullen, who will be the project manager and primary author of the study. He will be assisted by Jody Maas, a financial analyst, and Kirk Bishop, an urban planner. All three are principals of the firm with extensive impact fee experience. An organizational chart is shown below. Our resumes are provided below.



Clancy Mullen, Project Manager



Clancy Mullen is a principal of Duncan Associates and currently serves as president. He is one of the nation's most experienced impact fee specialists. Since joining Duncan Associates 30 years ago, Clancy has managed most of the firm's impact fee studies. In addition to over 400 studies for cities and counties from coast to coast, he has also prepared impact fee studies for the Florida Department of Community Affairs, the Hawaii Department of Education, the Louisiana Department of Transportation, the Maryland-National Capitol Park and Planning Commission, and the Minnesota Department of Agriculture.

Prior to joining Duncan Associates, Clancy served as a zoning planner for the City of Austin, Texas. He is a contributing author to two American Planning Association publications, *Impact Fees: Principles and Practice of Proportionate-Share Development Fees*, 2009 and *Growth Management Principles and Practices*, 1995, as well as the Island Press book *A Guide to Impact Fees and Housing Affordability*, 2008. Clancy was a founding member and served on the Board of Directors of the Growth & Infrastructure Consortium (formerly National Impact Fee Roundtable) until last year. He was a National Merit Scholar at Rice University and has a master's degree in community and regional planning from the University of Texas at Austin.

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

Kirk Bishop, Planner



Kirk has been with Duncan Associates since 1987. Kirk is in charge of the firm's regulatory review and revision services. In addition to his regulatory work, Kirk has provided ordinance drafting and planning assistance in numerous impact fee projects, and has managed impact fee projects for the County of Hilton Head Island, South Carolina, the Telluride R-1 School District in La Plata County, Colorado, and the Miami-Dade School Board. Before joining Duncan Associates, Kirk was a senior planner with the City of Austin, where he was responsible for zoning and subdivision case review, and staff support for a citizen's code update panel. Earlier in his career, he was a senior associate with the American Planning Association, where he served as principal researcher for numerous studies and authored the Planning Advisory Services report, "Designing Urban Corridors." Kirk is a frequent speaker at conferences and a regular guest lecturer in the University of Illinois at Chicago's Urban Planning and Public Affairs program. He holds a master's degree in urban and regional planning and a bachelor's degree in political science from the University of Iowa.

Jody Maas, Financial Analyst



Jody Maas is a financial analyst who has worked on many impact fee projects since joining Duncan Associate in 1990. Her work on impact fee projects includes review of budgets and comprehensive financial reports, analysis of debt obligations, cash flow analysis, document editing and quality control. She also has 29 years' experience managing the business aspects of the firm. Jody's accountability extends to financial activities of the firm as well as human resources and managing the day to day office operations. Her responsibilities include payroll oversight, including federal and state payroll reporting, multi-faceted state compliance reporting, 401k reporting, accounts payable, accounts receivable, liaison with health/professional liability/commercial liability insurance companies, human resources management, tax planning, cash management, expense forecasting, and internal/external financial reporting. She has a degree in business with an emphasis in accounting from Nebraska Wesleyan University.

Attachment: Impact Fee Study for Port Wentworth, Georgia Proposed by Duncan Associates (2461 : Impact Fee Study for Port Wentworth,

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: City Administrator
Category: Report
Prepared By: Shanta Scarboro
Department Head: Edwin L. Booth

AGENDA ITEM (ID # 2462)

DOC ID: 2462

City Manager Updates

Issue/Item: City Manager Updates.

City Manager Edwin Booth would like to update Mayor and Council on the following:

1. State Road (SR) 25 Bridge Replacements @ Savannah and Middle Rivers, Houlihan Landing Boat Ramp
2. Savannah National Wildlife Refuge
3. Coastal Regional Commission (CRC) Comprehensive Plan Review Process
4. City projects
5. Current FY21 Budget
6. Miscellaneous other

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: All
Category: Report
Prepared By: Shanta Scarboro
Department Head: Brian Harvey

AGENDA ITEM (ID # 2452)

DOC ID: 2452

Committee Reports

ATTACHMENTS:

- Development Services Monthly Report - May 2021 (DOCX)
- Fire Department Monthly Report - May 2021 (PDF)
- Fire Department Monthly Training Report - May 2021 (PDF)
- Leisure Services Department Monthly Report - June 2021 (PDF)
- Police Department Monthly Report - June 2021 (PDF)
- ClearWater Solutions, LLC Monthly Report - May 2021 (PDF)

DEVELOPMENT SERVICES MONTHLY REPORT / MAY 2021

INSPECTIONS / P&Z

Building Permits Issued: 24
Building Estimated Cost: $1,588,841.19
Permit Fees Paid: $54,073.72
Inspections Completed: Daily Inspections:246, Apartment Finals: 192, Grand Total:438
Plan Reviews Completed: 24

Attachment: Development Services Monthly Report - May 2021 (2452 : Committee Reports)

To: Mayor Norton and City Council

From: Chief Lance Moore

Date: June 15, 2021

Ref: Committee Report

Sir,

The following is a summary of the incident responses and activity for the Fire Department between the dates of May 1, 2021 and June 1, 2021.

3 building fires

1 vehicle fires

116 emergency medical calls

21 motor vehicle collisions

0 carbon monoxide investigation

10 public service

21 dispatched and cancelled in route.

11 fire alarms

4 open area fires

3 hazardous materials related.

1 elevator rescues

0 power line related

Total: 191

Our department has started annual fire hydrant maintenance. This process is required by ISO and helps us make sure the hydrants are working properly. This year we will be working on +/- 535 hydrants.

Attachment: Fire Department Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth Fire Department

317 Cantyre Street
Port Wentworth, Georgia 31407

Lance Moore
Fire Chief

Telephone: (912) 210-7707
Office: (912) 401-0475

Monthly Fire Training Report

May. 1st, 2021 – May. 31st, 2021

Chief Moore,

This month, the training division focused on the following:

- The Training Division designed and executed the first ever point-based promotional process. Each candidate went through a five-step process:
  - ***The Selection Process***
    - The process in which every candidate submits a request of interest. At which point the promotional committee looks at the qualifications, determines if the candidate is eligible and progresses them to the next step.
  - ***Letter of Intent and Resume***
    - The process is detailed to show that the candidate can follow directions. Each candidate is given a list of specifications for the resume. To achieve a perfect score, they must follow each step correctly.
  - ***Written Exam***
    - The process is focused on cognitive knowledge. Each question compiled is based off skills and knowledge within the fire service and supervisor roles. multiple choice, true/false, short answer, and essay. This test must be passed with at least a 70% score to progress.
  - ***Behavioral Exam***
    - The process places the candidate in front of three chief officers who ask situational questions that test the candidate on knowledge.
  - ***Experience review***
    - The final process is an overview of all certifications, years of service, and education. All points are tallied to achieve a final total. The highest overall score achieves the position.

- For Training, 8 members in the department have been working towards obtaining their Apparatus operator. They will continue this through June and should test for the certification in July.

Lt. Ronald Hendry
Training Officer

Attachment: Fire Department Monthly Training Report - May 2021 (2452 : Committee Reports)

June 2021 LEISURE SERVCIES DEPARTMENT REPORT

05/10/2021 Leisure Service Programs and Events for June and July

- Outdoor Movie Night June 18th Goonies and July 23rd is Hook.
- Tumbling classes for June start June 5th and July start July 1st.
- Feeding program daily will continue until October 2021. Our daily serving is from the front patio of the P.B. Edwards Jr. Gym. Emergency Feeding for children 18 and under. We pass out a cold breakfast and a hot lunch daily from 11:30-1:00pm. We will serve about 40-50 meals daily. This is in partnership with the Second Harvest Food Bank of Savannah.
- Elegant Dolls Dance Majorette team practice on Tuesday and Thursday and are working on a fundraiser closer to August.
- Girls Scouts program is on Wednesday's and Saturday's.
- Adult Volleyball on Friday's June and on Monday's in July.
- Basketball Camp will be June 8-11 and we are a full.
- Football Camp is June 21-25 and July 19-23.
- Registration for Fall sports starts June 15th – August 15th (Football, Cheerleading, Soccer, Volleyball and Tumbling)
- We are planning a Leisure Services Kick off to Fall on towards the end of July date and time will be announced. Behind City Hall. 11:30-3:00 with bouncy, water slides and free hotdogs and drinks.

Ed Young Senior Center

- Adjusting the Senior Center protocols given the new CDC guidelines. Started on Friday, June 4th, they will not be requiring every member to be fully vaccinated. Masks will be encouraged, and they will be continuing to ask those that aren't vaccinated to wear a mask in order to protect themselves. They will also continue to ask clients as they enter the facility if they are feeling well that morning and will take temperatures if they would like for us to do so. In addition, for those who wish, they will continue to have some socially distanced seating at lunch for those who are not vaccinated and/or choose to take that extra measure of protection.
- Daily in person lunch will be served at 12:00 in the dining hall. Must pre-register the day before.
- Outside of Senior Center painted the week of June 21st – 27th.
- Continue the meals on wheels for Seniors that cannot come out by driving to pick up meals the meals will be taken to their house.
- Lara Horn the Center Director will be leaving on June 10th and a new Center Director will start June 7th. We will Miss Lara Horn she did a wonderful job but is seeking a new position.

Ed Young Senior Center weekly numbers are an average for the weeks in May

- May 3-7 Meals ordered (20) meals served (20) clients attended (20).
- May10-14 (Meals ordered (24) meals served (24) clients attended (24).
- May17-21 (Meals ordered (19) meals served (15) clients attended (15).
- May24-28 (Meals ordered (15) meals served (13) clients attended (13).
- Frozen meals were provide to 20 client 5 a piece on May -100 ordered
- Frozen meals were provide to 24 clients 5 a piece on May -120 ordered

Attachment: Leisure Services Department Monthly Report - June 2021 (2452 : Committee Reports)

Administrative and Operations

- Continue to create, update and import all upcoming programs into Tyler Parks and Rec online system
- Continue to create meal count for Children's Feeding program daily/weekly and e-mail to Second Harvest
- Advertise and pass out flyers for Drive in Movies Starting in June 18th and do community E-blast.
- Continue to complete refunds, transfers of daily payments of programs and rentals monthly.
- Create ongoing Leisure Services employee bi-weekly work schedule.
- Keep Leisure Services Facebook page and City web page up to date on social media.
- Continue monitoring daily deposits and credit card import/export for all sports and rentals through our payment portal and Tyler Parks and Rec program.
- Continue to manage the cash and receivables from our Tyler Parks and Rec system. Daily deposits.
- Continue to manage team in maintaining cleanliness of all Leisure Services Departments facilities.
- Department reports due June 11th for Council meeting June 24th.
- Department Head meeting June.
- Reconcile Monthly May P-card Statement and turn in to accounts payable by June 11th...
- Complete line item transfers.
- Interview and conduct reference checks. Complete new hire paperwork.

Mobley Park

- Have old shed moved.
- Have electric Pole straighten out and add Pick nick tables and shade on slab.
- Build brick stand for Mobley Park Sign for entrance to park.
- Start to get football field ready for Fall ball.
- Continue to weed-eat all around building and fences.
- Disinfect weekly all playgrounds, benches, pic-nick tables with pressure washer at all parks, concession stands and pavilions. Keep parking lot at Mobley Park cut and clean.
- Take trash cans in and out of park weekly for pick up, Weekly Clean bathrooms and kill ants on all fields.
- Keep parking lot clean and weed eat.

Armadale Walking Path

- Spray ant spray on ant beds.
- Continue to cut grass, weed-eat and edge walking path.
- Consistently change out doggie station.

Festival Site/Soccer Fields and Tommy Thomas Pavilion

- Cut area low for June Movie Drive in nights. (set up parking for drive in movie)
- Had every other light turned off until Georgia Power can put them all on a timer.
- Change out dog trash stations and add new dog waste bags. Cut grass, weed eat and edge park weekly.
- Repair fence that was cut.
- Move shed over to Festival site.

Houlihan Boat Landing

- Continue to replace cleats on floating dock by welding new ones on.
- Cut and weed eat boat ramp area and retention ponds.
- Update Kiosk at boat landing. Roll up water hoses bi weekly and clean up trash in parking lot bi weekly.

Attachment: Leisure Services Department Monthly Report - June 2021 (2452 : Committee Reports)

Houston Church

- Add light to flag pole and lights on timer to doors of church.
- Cut and weed-eat Houston Church weekly.
- Clean, dust and mop church monthly.

Warren Drive Playground / Park

- Continue to disinfect playground area bi weekly. Continue to cut grass, weed eat, edge weekly. Cleanou doggie station.
- Replace basketball outdoor hoops.

Della Steel Park

- Work with developer from Kern and Company on park improvements.
- Disinfect playground area, picnic tables and pavilion area.
- Clean parking lot and pull trash cans to front of park.
- Pressure wash playground and pavilion area. Clean out grills etc. Cleanout doggie station.

P.B. Edwards Jr. Gym

- Cleanout skate room and re-organize.
- Get gym ready for basketball camp.
- Add mini blinds to windows in top of gym.
- Have tumbling equipment set up on Monday's and Saturday's.
- Have gym ready for weekend rentals.
- Setting up volleyball net on Friday's.
- Daily starting at 9:00am the delivery of the food and passing it out starting at 11:30am – 1:00pm serving station for giving out cold breakfast and hot lunches to average of 50 people in partnership with Second Harvest Food and Feeding Program.
- Disinfect gym after each daily use.
- Re-stripe handy-cap parking spaces in August on gym side.
- Continued to buff and clean gym floor as needed.
- Cut, weed-eat and edge around gym and annex building weekly.

Community House

- Pressure wash outside of community house.
- Blow off roof.
- Church Rental on Sunday's until December.
- Elegant Dolls Dance team on Tuesday and Thursday 5:00-7:00.
- Continue to manage Leisure services team in cutting, weed eating, edging and blowing grass and mainta the gym/annex/senior center/warren drive park/ Dela Steel Park/Houston Church and Community Hous
- Continue to weekly clean bathrooms, kitchen, main area and check on AC etc.

Fountain

- Trim bushes, cut grass, pull weeds at fountain every other week.
- Refill fountain with water when it drops weekly.

Attachment: Leisure Services Department Monthly Report - June 2021 (2452 : Committee Reports)

Annex Building

- Keep building outside neat and clean.

Attachment: Leisure Services Department Monthly Report - June 2021 (2452 : Committee Reports)

To: Mayor Norton
From: Chief Libby ML
Date: June 14, 2021
Ref: Committee report
Sir,

Below is summary of the all the department's activity for the period of **May 14th, 2021 through June 13, 2021.** The summary will provide Council the total number of calls for service police units responded to as well as citations issued.

Police:

Since **May 14, 2021,** the police department has issued **1421 citations**. Officers conducted **1308** traffic stops. The department has made **108** arrests. **14** DUI cases were made along with **28** cases for possession of controlled substance and drug objects. The department was **3418** issued case report numbers for service calls. The department conducted **1206** residential and business checks. The department conducted **28** suspicious persons / vehicles stop. The department has responded to **148 accidents**. The department responded to **4** EMS calls. The department has taking **747** incident reports. The department has also conducted **224** combined walking patrols of both schools the Renasant Bank and other businesses.

Officers have attended **over 408** hours of training this month.

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

POLICE CALLS DISPATCHED
BY DAY OF THE MONTH

STARTING DATE: 05/01/2021
ENDING DATE: 05/31/2021

CHATHAM 911 COMMUNICATIONS SERVICES

	BL	CC	GC	PL	PW	SP	TB	TOTAL
05/01/2021	13	473	63	63	104	703	14	1,433
05/02/2021	7	467	59	70	105	718	6	1,432
05/03/2021	11	292	70	70	114	840	6	1,403
05/04/2021	10	292	63	60	159	905	13	1,502
05/05/2021	26	486	71	136	104	936	11	1,770
05/06/2021	14	368	49	125	94	851	10	1,511
05/07/2021	4	370	81	73	111	911	15	1,565
05/08/2021	14	285	56	63	144	972	2	1,536
05/09/2021	2	211	41	40	94	839	7	1,234
05/10/2021	9	410	67	84	111	880	14	1,575
05/11/2021	19	358	57	93	82	847	11	1,467
05/12/2021	14	283	42	66	105	1,019	11	1,540
05/13/2021	8	259	57	73	115	831	9	1,352
05/14/2021	35	285	77	120	114	759	8	1,398
05/15/2021	49	430	59	80	110	723	10	1,461
05/16/2021	41	273	74	74	108	712	13	1,295
05/17/2021	16	315	51	71	80	809	11	1,353
05/18/2021	41	236	51	96	117	930	7	1,478
05/19/2021	18	446	48	91	107	845	6	1,561
05/20/2021	6	443	57	104	121	811	12	1,554
05/21/2021	23	246	51	103	114	889	10	1,436
05/22/2021	38	251	43	87	118	945	9	1,491
05/23/2021	44	203	29	72	119	780	13	1,260
05/24/2021	12	515	57	73	110	740	7	1,514
05/25/2021	18	455	46	76	95	816	6	1,512
05/26/2021	28	372	53	90	123	915	10	1,591
05/27/2021	14	264	61	72	122	926	11	1,470
05/28/2021	20	427	50	79	133	950	7	1,666
05/29/2021	8	461	63	107	88	1,033	14	1,774
05/30/2021	6	403	54	66	83	764	9	1,385
05/31/2021	8	331	50	99	90	925	9	1,512
TOTAL	576	10,910	1,750	2,576	3,394	26,524	301	46,031

**NOTE: Excludes calls where Animal Services was primary responder*

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

Code Violations

	Code Enforcement Cases	
	Open Since 05/17/2021	
Address		Status
106 Turnberry	Grass/Overgrowth	Open
122 Turnberry	Grass	Open
211 Clifton	Unsafe Structure	See Notes
204 Phillips	Vehicles and Business	Open
106 Gordon Street	Property Maintenance	Open
107 Gordon Street	Property Maintenance	Open
312 Turnbery	Grass	Open
210 Phillips Ave	Illegal Connection	Open
Business License	City Wide 105 Subpoenas sent Court Dates 05/18 05/25/ 06/01 06/08	Open
212 Phillips	Boat Trailer	Open
417 Pinehurst	Disorderly House Warrants	
749 Highway 30	Grass and rubbish	Open
210 Phillps	Derelict Boat	Open
212 Phillips	Boat Trailer	Completed
211 Clifton Dr	Owner did not supply requied paperwork for Demolition permit	
	Supoenaed to Court 05/25/2021. Seeking Court Order for Demolition	
	to proceed by the City of PW	
**	05/25/2021 Requested and extension at court to get a lawyer.	

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

Port Wentworth Police Department
323 Cantyre Street
Port Wentworth, Georgia 31407

Matthew W. Libby
Chief of Police

Telephone: (912) 964-4360
Fax: (912) 966-7405

Monthly Training Report
May 14th, 2021- June 13th 2021

Chief Libby,

During this period, the training unit completed or coordinated **35 training classes**, trained **103 students** on various topics, and provided a total **614 hours** of training. The training Unit currently has **1 cadet** in the Georgia Public Safety Training Center Police Academy. The training unit also had 1 cadet in the Savannah Technical College Police Academy Graduate with **432 hours of training**.

Training Classes Completed

a. 17May2021

i. Forensic Mapping (**2 Hours**)

1. 4 Officers

b. 17May2021

i. Patrol Investigative Techniques (**2 Hours**)

1. 5 Officers

c. 18May2021

i. Patrol Rifle Qualifications (Thunderbolt PD) (**1 Hour**)

1. 1 Officer

d. 18May2021

i. Shotgun Qualification (Thunderbolt PD) (**1 Hour**)

1. 2 Officer

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Matthew W. Libby
Chief of Police

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Fax: (912) 966-7405

e. 18May2021

- **i.** Firearm Qualification (Thunderbolt PD) (**1 Hour**)
  1. 2 Officers

f. 19May2021

- **i.** Patrol Rifle Qualifications (Thunderbolt PD) (**1 Hour**)
  1. 1 Officer

g. 19May2021

- **i.** Shotgun qualification (Thunderbolt PD) (**1 Hour**)
  1. 3 Officer

h. 19May2021

- **i.** Firearm Qualification (Thunderbolt PD) (**1 Hour**)
  1. 5 Officers

i. 24May2021

- **i.** Firearm Qualification (**1 Hour**)
  1. 1 Officers

j. 24May2021

- **i.** Back-up Firearm Qualification (**1 Hour**)
  1. 1 Officers

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

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Matthew W. Libby
Chief of Police

Telephone: (912) 964-4360
Fax: (912) 966-7405

k. 3June2021

- **i.** PIT Training (Classroom) (**4 Hours**)
  1. 16 Officers

l. 4June2021

- **i.** PIT Training (Classroom0 (**4 Hours**)
  1. 11 Officers

m. 4June2021

- **i.** Firearm Qualification (Thunderbolt PD) (**1 Hour**)
  1. 1 Officer

n. 9June2021

- **i.** Pit Training (Practical) (**12 Hours**)
  1. 14 Officers

o. 10June2021

- **i.** Officer Safety and Traffic Stops (**4 Hours**)
  1. 2 Officers

p. 14May2021-13June2021

- **i.** ONLINE GPSTC TRAINING COURSES **(34 Hours Total)**
  1. 9 Classes - 27 Officers

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Chief of Police

Telephone: (912) 964-4360
Fax: (912) 966-7405

q. 14May2021-13June2021

i. ONLINE CLASSES **(29 Total Hours)**

1. 8 Classes - 4 Officers

r. 14May2021-13June2021

i. OFF-SITE TRAINING CLASSES **(82Hours)**

1. 3 Classes – 3 Officers

Respectfully,

Lieutenant Nathan Jentzen
Sergeant Justin Hardy
Training Unit

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

Citation Violations reported between 5/14/2021 and 6/13/2021

Violation:	Code:	Total:
IMPROPERLY PARKING TRUCKS IN STREET	13-2	1
TRUCK ON A CITY STREET	13-5	5
DISORDERLY CONDUCT	15-1	2
VIOLATION OF NOISE ORDINANCE/DISTURBING PEACE	15-2	2
Discharging Firearms, BB guns, etc.	15-5	1
POSSESSION OF MARIJUANA LESS THAN 1 OZ. CITY ORDINANCE	15-8	1
OBSTRUCTION/HINDER LAW ENFORCEMENT OFFICER-MISD	16-10-24A	3
GIVING FALSE NAME, ADDRESS, OR BIRTHDATE TO LAW ENFORCEMENT OFFICER	16-10-25	1
POSSESSION OF FIREARM OR KNIFE DURING COMMISSION OF OR ATTEMPT TO COMMIT A CRIME	16-11-106	3
POSSESSION OF SAWED-OFF SHOTGUN, SAWED-OFF RIFLE, MACHINE GUN, DANGEROUS WEAPON, OR SILENCER	16-11-123	1
LOITERING OR PROWLING	16-11-36	2
TERRORISTIC THREATS AND ACTS	16-11-37	1
DISORDERLY CONDUCT	16-11-39	4
DISORDERLY HOUSE	16-11-44	1
POSESSION OF MARIJUANA	16-13-2(B)	13
POSSESSION MARIJUANA- LESS THAN 1 OZ.	16-13-2(B)	1
POSSESSION SCHEDULE IV DRUGS	16-13-28	1
POSSESSION OF CONTROLLED SUBSTANCE	16-13-30	5
POSSESSION OF MARIJUANA MORE THAN 1 OZ	16-13-30J	1
POSSESSION AND USE OF DRUG RELATED OBJECTS	16-13-32.2	7
DRUGS NOT IN ORIGINAL CONTAINER - MISDEMEANOR	16-13-75	1
PARTY TO A CRIME	16-2-20	1
CRIMINAL ATTEMPT TO COMMIT A MISDEMEANOR	16-4-1	1
MURDER	16-5-1	1
AGGRAVATED ASSAULT	16-5-21	1
AGGRAVATED ASSAULT AGAINST A PEACE OFFICER	16-5-21 (A)	1
SIMPLE BATTERY	16-5-23	1
SIMPLE BATTERY DVA	16-5-23F	1
AGGRAVATED STALKING	16-5-91	1
RAPE	16-6-1	1
POSSESSION OF TOOLS FOR COMMISSION OF A CRIME	16-7-20	2
CRIMINAL TRESPASS	16-7-21	7
CRIMINAL DAMAGE TO PROPERTY - 2ND DEGREE	16-7-23	2
HOME INVASION	16-7-5	1
IDENTITY THEFT	16-9-121	1
NO OR DEFECTIVE BRAKE WARNING DEVICE	40-1-8(H) 393.51	1
TAG/ REGISTRATION REQUIREMENTS	40-2-20	7
OBSCURING TAG FRAME OR TINTED TAG COVERS PROHIBITED	40-2-41	3
ACQUIRING LICENSE PLATE FOR PURPOSE OF CONCEALING IDENTIFICATION OF MOTOR VEHICLE	40-2-5	1
USE OF LICENSE PLATE WITH INTENT TO CONCEAL	40-2-7	2
EXPIRED REGISTRATION	40-2-8	79

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FAILURE TO AFFIX DECAL TO PLATE	40-2-8	3
NO TAG	40-2-8	3
FAILURE TO OBTAIN GA TAG IN 30 DAYS	40-2-90	3
DRIVING WHILE LICENSE SUSPENDED OR REVOKED-MISDEMEANOR	40-5-121	53
PERMITTING UNLICENSED MINOR TO DRIVE	40-5-123	2
SUSPENDED REGISTRATION	40-5-146(B)1	1
DRIVING WITHOUT A VALID LICENSE- MISDEMEANOR	40-5-20	71
EXPIRED DRIVER'S LICENSE 0-1 MONTH	40-5-20(A)	6
EXPIRED DRIVER'S LICENSE 2-5 MONTHS	40-5-20(B)	1
FAILURE TO OBTAIN GEORGIA LICENSE IN 30 DAYS	40-5-20(C)	6
EXPIRED DRIVER'S LICENSE6 MONTHS OR MORE	40-5-20C	2
POSSESSION OF MORE THAN ONE VALID LICENSE	40-5-20C	1
CLASS CP LICENSE (INSTRUCTIONAL PERMIT)	40-5-24	3
VIOLATION OF CLASS D RESTRICTIONS	40-5-24(B)(1)(A)	2
LICENSE TO BE EXHIBITED ON DEMAND	40-5-29B	12
VIOLATION OF LICENSE RESTRICTIONS	40-5-30	1
IMPROPER NAME/ADDRESS ON LICENSE	40-5-33	20
VIOLATION OF CONDITIONS ON LIMITED DRIVING PERMIT	40-5-64	1
NO INSURANCE	40-6-10	18
IMPROPER LEFT OR RIGHT TURN	40-6-120	22
IMPROPER RIGHT OR LEFT TURN	40-6-120(A)1	1
IMPROPER U-TURN	40-6-121	61
FAILURE TO SIGNAL WHEN TURNING OR CHANGING LANES	40-6-123	1
IMPROPERLY STOPPED IN ROADWAY	40-6-123C	4
FAILURE TO USE TURN SIGNAL	40-6-124	3
SUSPENDED REGISTRATION	40-6-15	32
APPROACHING AUTHORIZED EMERGENCY VEHICLE	40-6-16(B)	32
IMPROPER TAG	40-6-166	1
TOO FAST FOR CONDITIONS	40-6-180	32
SPEEDING IN EXCESS OF MAXIMUM LIMITS	40-6-181	318
IMPEDING THE FLOW OF TRAFFIC	40-6-184	7
SLOW POKE LAW (LEFT LANE DRIVING PROHIBITED)	40-6-184 (C)	5
SPEEDING IN EXCESS OF MAXIMUM LIMITS	40-6-188	1
FAILURE TO OBEY AUTHORIZED PERSON DIRECTING TRAFFIC	40-6-2	1
FAILURE TO OBEY TRAFFIC CONTROL DEVICE	40-6-20	60
STOPPING, STANDING, OR PARKING OUTSIDE OF BUSINESS OR RESIDENTIAL DISTRICTS	40-6-202	4
IMPROPER STOPPING	40-6-203	25
PARKING IN ROADWAY	40-6-203	24
IMPROPER BACKING	40-6-240	4
FAILURE TO EXERCISE DUE CARE	40-6-241(B)	6
UNLAWFUL USE OF WIRELESS DEVICE	40-6-241(C)	37
FOLLOWING TOO CLOSELY	40-6-247	1
OPEN CONTAINER OF ALCOHOL IN MOTOR VEHICLE	40-6-253	5
HIT AND RUN; DUTY OF DRIVER TO STOP AT OR RETURN TO SCENE OF ACCIDENT	40-6-270	3
FAILURE TO NOTIFY OWNER UPON STRIKING A FIXED OBJECT	40-6-272	2

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FAILURE TO REPORT ACCIDENT WITH INJURY/DEATH/DAMAGE	40-6-273	1
OPERATOR/PASSENGER MUST WEAR EYE PROTECTON MOTORCYCLE	40-6-315B	1
PROHIBITING MOPEDS ON PUBLIC ROADS AND HIGHWAY	40-6-353	1
LOW SPEED VEHICLE ON HIGHWAY	40-6-362	1
RECKLESS DRIVING	40-6-390	4
DUI - REFUSAL	40-6-391	2
DUI/ALCOHOL/LESS SAFE	40-6-391A1	7
DUI/DRUGS/LESS SAFE	40-6-391A2	3
DUI - COMBINATION	40-6-391A4	1
DUI/ALCOHOL/.08 OR MORE/21 YOA OR OLDER	40-6-391A5	1
FLEEING/ATTEMPTING TO ELUDE POLICE OFFICER FELONY	40-6-395B5A	1
DRIVING ON WRONG SIDE OF ROADWAY	40-6-40	7
DRIVING WRONG SIDE OF ROAD	40-6-40A	2
IMPROPER PASSING	40-6-42	2
IMPROPER PASSING ON RIGHT	40-6-43B	8
PASSING IN A NO PASSING ZONE	40-6-46	5
DRIVING WRONG WAY ON ONE WAY	40-6-47	5
FAILURE TO MAINTAIN LANE/IMPROPER LANE CHANGE	40-6-48	48
FOLLOWING TOO CLOSELY	40-6-49	14
DRIVING IN DIVIDED HIGHWAY, CONTROLLED ACCESS ROADWAYS, AND EMERGENCY LANES	40-6-50	2
DRIVING IN THE EMERGENCY LANE/SHOULDER	40-6-50B	30
LEFT LANE VIOLATION	40-6-52	9
THIRD LANE VIOLATION	40-6-52	1
TRUCKS OVER 6 WHEEL MUST STAY TO RIGHT	40-6-52	1
FAILURE TO YIELD RIGHT OF WAY AT INTERSECTION	40-6-70	1
FAILURE TO YIELD WHILE TURNING LEFT	40-6-71	2
FAILURE TO STOP AT STOP SIGN	40-6-72	29
FAILURE TO YIELD WHEN ENTERING ROADWAY	40-6-73	5
FAILURE TO YIELD FOR AUTHORIZED EMERGENCY VEHICLE	40-6-74	8
PEDESTRIAN IN THE ROADWAY	40-6-92	2
PEDESTRIAN UNDER THE INFLUENCE OF ALCOHOL OR DRUGS	40-6-95	1
PEDESTRIAN MUST WALK ON SIDEWALK/SHOULDER	40-6-96	1
FAILURE TO USE HEADLIGHTS AFTER DARK/WHEN RAINING	40-8-20	15
HEADLIGHT REQUIREMENTS	40-8-22	25
TAIL LIGHTS REQUIRED	40-8-23	13
TAG LIGHT REQUIRED	40-8-23 (D)	2
NO BRAKE LIGHTS OR WORKING TURN SIGNALS	40-8-25	9
STANDARDS FOR BRAKE LIGHTS/SIGNAL DEVICES	40-8-26	12
TINTED TAIL LIGHT COVERS	40-8-26	3
FAILURE TO DIM HEADLIGHTS	40-8-31	6
ALTERATION OF SUSPENSION SYSTEM	40-8-6	1
MIRROR REQUIREMENTS	40-8-72	1
WINDSHIELD/WINDOW/WIPER REQUIREMENTS	40-8-73	10
WINDOW GLAZING VIOLATION/TINTED WINDOWS	40-8-73.1	6
TIRE REQUIREMENT	40-8-74	1

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SAFETY RESTRAINT / MINOR UNDER 8	40-8-76	4
SEATBELT- CHILD	40-8-76	3
SAFETY RESTRAINT--OVER 18 YEARS	40-8-761	22
SEATBELT VIOLATION-CMV	40-8-761	1
SPEEDOMETER-IMPROPERLY WORKING	40-8-8	1
OPERATING VEHICLE WITH UNAUTHORIZED BLUE LIGHTS	40-8-90	4
OPERATING VEHICLE DURING SUSPENSION OF LICENSE	40-9-8	2
NONE	NONE	1
Total Events:		1421

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

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Incident Types reported between 5/14/2021 and 6/13/2021

Events:	Total:
ABANDONED VEHICLE TOWED	2
AFFRAY	1
AGGRAVATED ASSAULT	2
AGGRAVATED ASSAULT AGAINST A PEACE OFFICER	1
AGGRAVATED STALKING	2
APPROACHING AUTHORIZED EMERGENCY VEHICLE	3
BATTERY	1
BATTERY (FV)- 1ST OFFENSE	2
BATTERY AGAINST A PERSON WHO IS 65 YOA OR OLDER	1
BLUE LIGHT RESTRICTIONS ON VEHICLES	1
BURGLARY	3
CIVIL MATTER	5
CRIMINAL ATTEMPT TO COMMIT A FELONY	1
CRIMINAL DAMAGE TO PROPERTY - 2ND DEGREE	2
CRIMINAL TRESPASS	10
CRUELTY TO CHILDREN 3RD DEGREE OR 3RD SUBSEQUENT OFFENSE	1
DAMAGE TO CITY, PUBLIC PROPERTY	1
DAMAGE TO PROPERTY	11
DEATH INVESTIGATION	1
DISORDERLY CONDUCT	9
DISORDERLY HOUSE CITY ORDINANCE	1
DOMESTIC DISPUTE	17
DRIVING IN THE EMERGENCY LANE/SHOULDER	1
DRIVING WHILE LICENSE SUSPENDED OR REVOKED- FELONY	6
DRIVING WHILE LICENSE SUSPENDED OR REVOKED- MISDEMEANOR	42
DRIVING WITHOUT A VALID LICENSE- MISDEMEANOR	64
DRUGS NOT IN ORIGINAL CONTAINER - MISDEMEANOR	1
DUI - COMBINATION	1
DUI - LESS SAFE- ALCOHOL	4
DUI - LESS SAFE- DRUGS	3
DUI - REFUSAL	2
DUI/ALCOHOL/.08 OR MORE/21 YOA OR OLDER	1
DUI/ALCOHOL/LESS SAFE	2
ENTERING AUTOMOBILE OR OTHER MOTOR VEHICLE WITH INTENT TO COMMIT THEFT OR FELONY	2
EXPIRED DRIVER'S LICENSE6 MONTHS OR MORE	1
EXPIRED REGISTRATION	7
FAILURE TO DIM HEADLIGHTS	3

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FAILURE TO EXERCISE DUE CARE	1
FAILURE TO MAINTAIN LANE/IMPROPER LANE CHANGE	8
FAILURE TO NOTIFY OWNER UPON STRIKING A FIXED OBJECT	1
FAILURE TO OBEY TRAFFIC CONTROL DEVICE	5
FAILURE TO OBTAIN GA TAG IN 30 DAYS	2
FAILURE TO OBTAIN GEORGIA LICENSE IN 30 DAYS	1
FAILURE TO REPORT ACCIDENT WITH INJURY/DEATH/DAMAGE	1
FAILURE TO SIGNAL WHEN TURNING OR CHANGING LANES	1
FAILURE TO USE HEADLIGHTS AFTER DARK/WHEN RAINING	1
FAILURE TO YIELD FOR AUTHORIZED EMERGENCY VEHICLE	1
FIRE-STRUCTURE	2
FIRE-VEHICLE	1
FLEEING/ATTEMPTING TO ELUDE POLICE OFFICER FELONY	1
FOLLOWING TOO CLOSELY	1
FORGERY - 3RD DEGREE	1
GIVING FALSE NAME, ADDRESS, OR BIRTHDATE TO LAW ENFORCEMENT OFFICER	1
HARASSING COMMUNICATIONS	2
HEADLIGHT REQUIREMENTS	6
HOME INVASION-2ND DEGREE	1
IDENTITY THEFT	1
IMPEDING THE FLOW OF TRAFFIC	3
IMPROPER LEFT OR RIGHT TURN	1
IMPROPER STOPPING	4
IMPROPER U-TURN	4
INJURED PERSON	1
INJURED/SICK PERSON	1
LICENSE TO BE EXAMINED ON DEMAND	2
LOITERING AND PROWLING-CITY ORDINANCE	1
LOITERING OR PROWLING	1
LOST/MISLAID PROPERTY	5
LOW SPEED VEHICLE ON HIGHWAY	1
MEDICAL CALL	1
MENTAL HEALTH TRANSPORT	2
MISCELLANEOUS REPORT	33
NO BRAKE LIGHTS OR WORKING TURN SIGNALS	1
NO INSURANCE	5
OBSCURING TAG FRAME OR TINTED TAG COVERS PROHIBITED	1
OBSTRUCTION OF LAW ENFORCEMENT OFFICERS - MISDEMEANOR	3
OBSTRUCTION OF LAW ENFORCEMENT OFFICERS- FELONY	1
OPEN CONTAINER OF ALCOHOL IN MOTOR VEHICLE	2
OPERATOR/PASSENGER MUST WEAR EYE PROTECTON MOTORCYCLE	1
PEDESTRIAN MUST WALK ON SIDEWALK/SHOULDER	1
POSESSION OF MARIJUANA	16
POSSESSION AND USE OF DRUG RELATED OBJECTS	4
POSSESSION OF A DANGEROUS WEAPON	1
POSSESSION OF CONTROLLED SUBSTANCE	4
POSSESSION OF FIREARM OR KNIFE DURING COMMISSION OF OR ATTEMPT TO COMMIT A CRIME	1
POSSESSION OF SCHEDULE I CONTROLLED SUBSTANCE	1
POSSESSION OF TOOLS FOR COMMISSION OF A CRIME	1
PROBATION VIOLATION	1
RAPE	1
RECKLESS DRIVING	3
RUNAWAY JUVENILE	1
SAFETY RESTRAINT / MINOR UNDER 8	1
SEATBELT- ADULT	1
SIMPLE BATTERY	3
SIMPLE BATTERY - FAMILY VIOLENCE	2
SIMPLE BATTERY AGAINST POLICE OFFICER/LE DOG/CORRECTIONS OR DETENTION OFFICER	1
SPEEDING IN EXCESS OF MAXIMUM LIMITS	17
STALKING	1
STANDARDS FOR BRAKE LIGHTS/SIGNAL DEVICES	2
SUICIDE THREAT/ATTEMPT	4
SUSPENDED REGISTRATION	2
TAG/ REGISTRATION REQUIREMENTS	2

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TAIL LIGHTS REQUIRED	2
TERRORISTIC THREATS AND ACTS	3
THEFT BY TAKING - FELONY	4
THEFT BY TAKING - MISDEMEANOR	4
THEFT BY TAKING MISDEMEANOR	1
TIRE REQUIREMENT	1
TOO FAST FOR CONDITIONS	3
UNGOVERNABLE CHILD	4
UNLAWFUL USE OF WIRELESS DEVICE	1
UNLAWFUL USE OF WIRELESS DEVICE 1ST OFFENSE	2
WANTED PERSON	4
WINDOW GLAZING VIOLATION/TINTED WINDOWS	1
WINDSHIELD/WINDOW/WIPER REQUIREMENTS	1
Total Events:	433

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

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ACCIDENT REPORTS BETWEEN 5/14/2021 AND 6/13/2021

Location:	Date \ Time Received:	Case Number	Vehicles	Injuries	Fatalaties
	5/14/2021	210514077	2	0	0
STEMSON WAY	5/14/2021	210514077	2	0	0
	5/14/2021	210514089	2	0	0
SR-21	5/14/2021	210514089	2	0	0
	5/15/2021	210515091	1	0	0
BARNSLEY RD	5/15/2021	210515091	1	0	0
	5/16/2021	210516021	1	0	0
MEINHARD ROAD	5/16/2021	210516021	1	0	0
CROSSGATE RD.	5/16/2021	210516026	2	0	0
SOUTH COAST HWY	5/16/2021	210516026	2	0	0
COOK STREET	5/16/2021	210516091	2	0	0
SR 21	5/16/2021	210516091	2	0	0
BONNY BRIDGE RD	5/17/2021	210517021	2	0	0
SR-21 S	5/17/2021	210517021	2	0	0
	5/17/2021	210517044	2	0	0
7001 S.R. 21	5/17/2021	210517044	2	0	0
	5/17/2021	210517049	2	0	0
101 MAGNOLIA BLVD	5/17/2021	210517049	2	0	0
INTERSTATE 95	5/17/2021	210517053	2	0	0
SR 21 NB	5/17/2021	210517053	2	0	0
EXPANSION BLVD	5/17/2021	210517057	2	0	0
JIMMY DELOACH	5/17/2021	210517057	2	0	0
COLDBROOK STATION CIR	5/17/2021	210517060	2	1	0
SR-21	5/17/2021	210517060	2	1	0
NORTHBOUND SR-21	5/17/2021	210517067	2	0	0
TRAVELERS WAY	5/17/2021	210517067	2	0	0
INTERSTATE 95 UNDERPASS	5/17/2021	210517068	2	0	0
S.R 21 NB	5/17/2021	210517068	2	0	0
	5/18/2021	210518053	2	0	0
7001 SR-21	5/18/2021	210518053	2	0	0
BOURNE AVENUE	5/18/2021	210518063	2	0	0
GEORGIA HIGHWAY 21	5/18/2021	210518063	2	0	0
BONNY BRIDGE RD	5/18/2021	210518062	2	0	0

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Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

ACCIDENT REPORTS BETWEEN 5/14/2021 AND 6/13/2021

Location:	Date \ Time Received:	Case Number	Vehicles	Injuries	Fatalaties
S.R. 21	5/18/2021	210518062	2	0	0
S.R. 21	5/18/2021	210518069	5	0	0
TRAVELERS WAY	5/18/2021	210518069	5	0	0
BENTON BLVD	5/18/2021	210518067	2	0	0
S.R. 30	5/18/2021	210518067	2	0	0
	5/18/2021	210518068	2	0	0
SR-21 NB	5/18/2021	210518068	2	0	0
	5/18/2021	210518075	2	0	0
INTERSTATE 95	5/18/2021	210518075	2	0	0
	5/19/2021	210519032	2	0	0
SR-21	5/19/2021	210519032	2	0	0
	5/19/2021	210519071	3	0	0
GULFSTREAM RD	5/19/2021	210519071	3	0	0
	5/19/2021	210519082	2	0	0
WARREN DR	5/19/2021	210519082	2	0	0
	5/21/2021	210521016	2	0	0
50 NEWPORT BLVD	5/21/2021	210521016	2	0	0
	5/21/2021	210521021	1	0	0
SR 30	5/21/2021	210521021	1	0	0
	5/21/2021	210521025	2	0	0
230 FLONNEL AVE	5/21/2021	210521025	2	0	0
SR-21 N	5/21/2021	210521068	2	0	0
TRAVELERS WAY	5/21/2021	210521068	2	0	0
INTERSTATE 95 SOUTH RAMP	5/21/2021	210521074	2	0	0
SR-21	5/21/2021	210521074	2	0	0
	5/22/2021	210522019	2	0	0
65 CORDAGE CIRCLE	5/22/2021	210522019	2	0	0
	5/22/2021	210522054	2	0	0
S.R. 21	5/22/2021	210522054	2	0	0
	5/23/2021	210523064	2	0	0
744 S.R. 30	5/23/2021	210523064	2	0	0
	5/23/2021	210523111	2	0	0
209 SOUTH COASTAL HIGHWAY	5/23/2021	210523111	2	0	0

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Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

ACCIDENT REPORTS BETWEEN 5/14/2021 AND 6/13/2021

Location:	Date \ Time Received:	Case Number	Vehicles	Injuries	Fatalaties
	5/23/2021	210523116	2	0	0
GRANGE ROAD	5/23/2021	210523116	2	0	0
	5/23/2021	210523119	2	0	0
I-95	5/23/2021	210523119	2	0	0
	5/23/2021	210523001	1	0	0
7110 SR 21	5/23/2021	210523001	1	0	0
	5/24/2021	210524055	1	0	0
1000 DORSET RD	5/24/2021	210524055	1	0	0
	5/24/2021	210524059	2	0	0
BENTON BLVD	5/24/2021	210524059	2	0	0
	5/24/2021	210524066	2	0	0
SR-21	5/24/2021	210524066	2	0	0
SR-21	5/24/2021	210524072	2	0	0
SR-307	5/24/2021	210524072	2	0	0
INTERSTATE 95	5/24/2021	210524077	2	0	0
SR 21	5/24/2021	210524077	2	0	0
	5/24/2021	210524080	2	0	0
SR-21	5/24/2021	210524080	2	0	0
GRANGE ROAD	5/25/2021	210525034	1	0	0
JIMMY DELOACH PARKWAY	5/25/2021	210525034	1	0	0
I-95	5/25/2021	210525053	2	0	0
SR-21	5/25/2021	210525053	2	0	0
OLEARY ROAD	5/25/2021	210525055			
SR-21	5/25/2021	210525055			
SR 21	5/25/2021	210525065	2	0	0
TRAVELERS WAY	5/25/2021	210525065	2	0	0
	5/26/2021	210526036	2	0	0
INTERSTATE 95	5/26/2021	210526036	2	0	0
	5/26/2021	210526067	4	0	0
7001 SR-21	5/26/2021	210526067	4	0	0
I-95 S	5/26/2021	210526055	2	1	0
SR-21 N	5/26/2021	210526055	2	1	0
INTERNATIONAL TRADE PARKWAY	5/27/2021	210527023	2	0	0

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Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

ACCIDENT REPORTS BETWEEN 5/14/2021 AND 6/13/2021

Location:	Date \ Time Received:	Case Number	Vehicles	Injuries	Fatalaties
S.R.21 SB	5/27/2021	210527023	2	0	0
	5/27/2021	210527024	1	0	0
MONTIETH RD	5/27/2021	210527024	1	0	0
	5/27/2021	210527091	2	0	0
7936 STATE ROUTE 21	5/27/2021	210527091	2	0	0
	5/28/2021	210528025	3	0	0
SR-21	5/28/2021	210528025	3	0	0
CROSSGATE RD	5/28/2021	210528095	1	0	0
S.R. 21	5/28/2021	210528095	1	0	0
	5/29/2021	210529014	1	0	0
I-95	5/29/2021	210529014	1	0	0
	5/29/2021	210529014_1	0	0	0
I95	5/29/2021	210529014_1	0	0	0
	5/29/2021	210528038	1	0	0
I-95	5/29/2021	210528038	1	0	0
	5/29/2021	210529046	2	0	0
100 TRAVELERS WAY	5/29/2021	210529046	2	0	0
	5/29/2021	210529050	2	0	0
7001 SR-21	5/29/2021	210529050	2	0	0
	5/30/2021	210530025	1	0	0
S.R. 21	5/30/2021	210530025	1	0	0
	6/1/2021	210601021	2	1	0
GA-21	6/1/2021	210601021	2	1	0
	6/1/2021	210601023	2	0	0
S.R. 21 SB	6/1/2021	210601023	2	0	0
	6/1/2021	210601071	2	0	0
SR-21 S	6/1/2021	210601071	2	0	0
	6/2/2021	210602020	2	0	0
SR 21	6/2/2021	210602020	2	0	0
	6/2/2021	210602047	2	0	0
SR 21	6/2/2021	210602047	2	0	0
	6/2/2021	210602048	3	0	0
S.R. 21	6/2/2021	210602048	3	0	0

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Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

ACCIDENT REPORTS BETWEEN 5/14/2021 AND 6/13/2021

Location:	Date \ Time Received:	Case Number	Vehicles	Injuries	Fatalaties
CROSSGATE RD	6/2/2021	210602054	2	0	0
S.R. 21	6/2/2021	210602054	2	0	0
	6/2/2021	210602058	2	0	0
SR 21	6/2/2021	210602058	2	0	0
S.R. 21	6/2/2021	210602059	2	0	0
S.R. 307	6/2/2021	210602059	2	0	0
	6/2/2021	210602070	2	0	0
205 OLEARY ROAD	6/2/2021	210602070	2	0	0
I-95	6/3/2021	210603013	2	0	0
SR-21	6/3/2021	210603013	2	0	0
	6/3/2021	210603017	2	0	0
I-95 S	6/3/2021	210603017	2	0	0
	6/3/2021	210603018	2	0	0
GRANGE RD	6/3/2021	210603018	2	0	0
PLEASANT DRIVE	6/3/2021	210603022	2	0	0
SR 21	6/3/2021	210603022	2	0	0
	6/3/2021	210603043	2	0	0
EXPANSION BLVD	6/3/2021	210603043	2	0	0
	6/4/2021	210604088	1	0	0
501 OLD RICHMOND RD APT 602	6/4/2021	210604088	1	0	0
BOURNE AVE	6/4/2021	210604051	2	0	0
SR-21 SB	6/4/2021	210604051	2	0	0
	6/4/2021	210604059	2	0	0
I-95 NB	6/4/2021	210604059	2	0	0
	6/4/2021	210604064	1	0	0
511 FLAT ROCK TRACE	6/4/2021	210604064	1	0	0
	6/4/2021	210604077	2	0	0
INTERSTATE 95 NORTH	6/4/2021	210604077	2	0	0
	6/4/2021	210604092	2	0	0
S.R 21 SB	6/4/2021	210604092	2	0	0
BENTON BLVD	6/5/2021	210605048	2	0	0
HWY 30	6/5/2021	210605048	2	0	0
	6/5/2021	210605050	2	0	0

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Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

ACCIDENT REPORTS BETWEEN 5/14/2021 AND 6/13/2021

Location:	Date \ Time Received:	Case Number	Vehicles	Injuries	Fatalaties
SR-21 SOUTH	6/5/2021	210605050	2	0	0
7306 GA-21	6/6/2021	210606038	2	0	0
OLD RICHMOND RD	6/6/2021	210606038	2	0	0
	6/6/2021	210606046	2	0	0
7300 GA-21	6/6/2021	210606046	2	0	0
COOK STREET	6/7/2021	210607081	4	0	0
SR 21	6/7/2021	210607081	4	0	0
	6/8/2021	210608032	3	0	0
SR-21	6/8/2021	210608032	3	0	0
	6/8/2021	210608034	2	0	0
GEORGIA HIGHWAY 21 SOUTH	6/8/2021	210608034	2	0	0
	6/8/2021	210608053	1	0	0
	6/8/2021	210608053	1	0	0
	6/8/2021	210608058	2	0	0
TURNBERRY ST	6/8/2021	210608058	2	0	0
	6/8/2021	210608087	2	0	0
7206 HIGHWAY 21	6/8/2021	210608087	2	0	0
SR-21	6/9/2021	210609010	2	0	0
SR-307	6/9/2021	210609010	2	0	0
COLDBROOK STATION CIRCLE	6/9/2021	210609057	2	0	0
SR-21 NB	6/9/2021	210609057	2	0	0
	6/9/2021	210609025	2	0	0
HIGHWAY 25	6/9/2021	210609025	2	0	0
	6/9/2021	210609052	2	0	0
318 GRANGE RD	6/9/2021	210609052	2	0	0
	6/9/2021	210609054	2	0	0
INTERSTATE 95	6/9/2021	210609054	2	0	0
BONNYBRIDGE RD	6/9/2021	210609059	2	0	0
CHISWICK ST	6/9/2021	210609059	2	0	0
	6/9/2021	210609060	2	0	0
7936 STATE ROUTE 21	6/9/2021	210609060	2	0	0
	6/9/2021	210609070	2	0	0
JIMMY DELOACH PARKWAY NB	6/9/2021	210609070	2	0	0

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Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

ACCIDENT REPORTS BETWEEN 5/14/2021 AND 6/13/2021

Location:	Date \ Time Received:	Case Number	Vehicles	Injuries	Fatalaties
BOURNE AVE	6/9/2021	210609069	2	0	0
SR 21	6/9/2021	210609069	2	0	0
	6/10/2021	210610053	2	0	0
BAYBERRY CT	6/10/2021	210610053	2	0	0
SONNY DIXON INTERCHANGE	6/10/2021	210610056	2	0	0
SR-21 SB	6/10/2021	210610056	2	0	0
	6/11/2021	210611031	2	0	0
SR-21	6/11/2021	210611031	2	0	0
	6/11/2021	210611039	2	0	0
CROSSGATE RD	6/11/2021	210611039	2	0	0
	6/11/2021	210611062	2	0	0
INTERSTATE 95	6/11/2021	210611062	2	0	0
	6/11/2021	2210611064	2	0	0
I-95 NB	6/11/2021	2210611064	2	0	0
	6/11/2021	210611068	2	0	0
I-95 N	6/11/2021	210611068	2	0	0
	6/11/2021	210611071	2	0	0
SR-21	6/11/2021	210611071	2	0	0
	6/11/2021	210611076	2	0	0
SR 21	6/11/2021	210611076	2	0	0
	6/12/2021	210612066	1	0	0
SR 25	6/12/2021	210612066	1	0	0
COOK ST.	6/12/2021	[illegible]	2	0	0
SR-21	6/12/2021	210612068	2	0	0
	6/12/2021	210612095	1	0	0
INTERSTATE 95	6/12/2021	210612095	1	0	0

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

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PORT WENTWORTH PD CRASH ANALYSIS REPORT	2021

Total Number of Crashes:	**112**
Accidents with Injuries:	**3**
Accidents with Fatalities:	**0**

FREQUENCY

Monday:	**15**
Tuesday:	**19**
Wednesday:	**22**
Thursday:	**10**
Friday:	**22**
Saturday:	**13**
Sunday:	**11**

00:01 - 08:00 Hours:	**26**
08:01 - 16:00 Hours:	**48**
16:01 - 24:00 Hours:	**38**

00:01 - 06:00 Hours:	**10**
06:01 - 12:00 Hours:	**28**
12:01 - 18:00 Hours:	**57**
18:01 - 24:00 Hours:	**17**

Top Contributing Factors (top 4 listed)

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

PORT WENTWORTH PD CRASH ANALYSIS REPORT	2021

Most Frequent Crash Locations and Quantity:

Traffic Conditions Complaint / Request Locations:

Speed Buggy Locations:

Traffic Citation Analysis Period: 5/14/2021 to 6/13/2021

Total Citations Issued: 1420

Top Citations Issued (top 4 listed)

40-6-181 - SPEEDING IN EXCESS OF MAXIMUM LIMITS (318)

40-2-8 - EXPIRED REGISTRATION (79)

40-5-20 - DRIVING WITHOUT A VALID LICENSE- MISDEMEANOR (71)

40-6-121 - IMPROPER U-TURN (61)

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

Carmine Marceno
Sheriff

State of Florida
County of Lee

"Proud to Serve"

March 26, 2021

Chief Matthew Libby
Port Wentworth Police Department
323 Cantyre St.
Port Wentworth, GA 31407

Dear Chief Libby,

Our agency would like to express our gratitude to several members of your team, for their assistance with our homicide investigation.

On March 2, 2021, our agency began investigating the homicide of an 80-year-old veteran who was brutally murdered in his own home. Our investigation led us to your area when we learned our suspect fled the scene in the victim's vehicle and was believed to be headed to a family member's home in Chatham County.

Sgt. Patrick Galvin and his team assisted our homicide detectives without hesitation. From writing and executing search warrants to locating the suspect, each officer's role was important in resolving this case.

Those who assisted were:

Sgt. Patrick Galvin
Officer Perry Bieber
Sgt. Michael Gonzales
Lt. BAK
Capt. William Chamberlain
Sgt. Andrew Watt
Cpl. Kody Williams
Officer Paul Huot
Officer David Suggs
Lt. Dale Sylvester
Det. Todd Read

Your team's assistance was vital in the capture of the dangerous fugitive. They represented your agency with professionalism and their dedication to the job should be commended. Please accept this letter of appreciation on behalf of our agency.

Sincerely,

Carmine Marceno
Sheriff, Lee County

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

Lee County Sheriff's Office

Certificate of Appreciation

Port Wentworth Police Department

Thank you for Assistance with Homicide Investigation
Lee County Sheriff's Office

"Proud To Serve"

Carmine Marceno, Sheriff
March, 2021

Attachment: Police Department Monthly Report - June 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Building communities. | Impacting lives.

Water Distribution:

Hydrant Flushing program:

- Established a flushing program to obtain a safe and stable water supply.
- Volume of flushing since the beginning has been stabilized due to an established and consistent flushing program.
- Auto flusher at Mossy Oak Cove flushed for 60 mins per day
- Auto flusher at Armadale Road flushed for 30 mins per day

Ground Water Withdrawal: 1,052,200 Gallons
Purchase Water from Savannah I&D: 33,823,301 Gallons

Compliance:

- Took monthly Micro-Biological samples and sent to lab. **(Results: Passed)**
- All monthly reports turned into EPD.

Maintenance:

- Repaired water leak at 60 Tiller Way.
- Repaired water leak at ~14 Cardinal Ct.
- Repaired water leak at 7220 Highway 21.
- Repaired water leak at 1 Laurel Ridge Ct.
- Repaired water leak at 50 Braxton Manor Dr.
- Repaired yard damage from water leak at 309 Phillips Ave.
- Repaired concrete damage from water leak at 102 Appleby Rd.
- Repaired concrete damage from water leak at 13 N. Coastal Hwy.

Wastewater Collection:

- Checked all lift stations (17) at least twice a week and performed routine maintenance.
- Cleaned probes, transducers, and floats as needed.

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Cold Stream Lift Station					Horne Place Lift Station				
Date	Pump #1	Usage	Pump #2	Usage	Date	Pump #1	Usage	Pump #2	Usage
1					1				
2					2				
3					3	1510.1	4.3	763.4	0.1
4					4				
5	3987.8		3166.4		5	1511.9	1.8	763.7	0.3
6					6				
7	3994.4	6.6	3166.4	0	7	1512.6	0.7	764.1	0.4
8					8				
9					9				
10	4003.4	9.0	3166.4	0	10	1514.6	2.0	764.8	0.7
11					11				
12	2101.0*	47.4	*		12	1516.4*	1.8	765.3*	0.5
13	4010.1*	6.7	3166.4*	0	13	*		*	
14	2108.5	7.5			14	1518.8	2.4	765.5	0.2
15					15				
16					16				
17	2118.3	9.8			17	1521.9	3.1	765.5	0
18					18				
19	4032.6	22.5	3166.4	0	19	1523.8	1.9	765.5	0
20					20				
21	4038.6	6.0	3166.4	0	21	1525.5	1.7	765.5	0
22					22				
23					23				
24	2138.0	19.7			24	1531.0	5.5	765.6	0.1
25					25				
26	4053.3	14.7	3167.0	0.6	26	1531.1	0.1	765.6	0
27					27				
28	2150.5	12.5			28	1560.8	29.7	796.1	30.5
29					29				
30					30				
31					31				

* Or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Armadale Lift Station					Rideshare Lift Station				
Date	Pump #1	Usage	Pump #2	Usage	Date	Pump #1	Usage	Pump #2	Usage
1					1				
2					2				
3	931.4	9.7	21187.0	7.9	3	2405.9	6.9	8892.4	5.1
4					4				
5	936.4	5.0	21191.1	4.1	5	2421.3	15.4	8923.5	31.1
6					6				
7	942.2	5.8	21195.8	4.7	7	2424.4	3.1	8950.7	27.2
8					8				
9					9				
10	950.5	8.3	21202.8	7.0	10				
11					11				
12	956.6*	6.1	21208.2*	5.4	12	2433.4*	9.0	8975.3*	24.6
13	*		*		13	*		*	
14	963.1	6.5	21214.0	5.8	14	2437.2	3.8	8978.9	3.6
15					15				
16					16				
17	972.3	9.2	21222.1	8.1	17	2443.6	6.4	8983.9	5.0
18					18				
19	977.8	5.5	21226.8	4.7	19	2447.2	3.6	8986.7	2.8
20					20				
21	984.0	6.2	21232.1	5.3	21	2451.6	4.4	8990.1	3.4
22					22				
23					23				
24	995.2	11.2	21240.2	8.1	24	2458.0	6.4	8995.0	4.9
25					25				
26	999.9	4.7	21246.1	5.9	26				
27					27				
28	1005.7	5.8	21251.3	5.2	28	2467.1	9.1	9001.3	6.3
29					29				
30					30				
31					31				

* or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Waffle House Lift Station					Pine Forest Lift Station				
Date	Pump #1	Usage	Pump #2	Usage	Date	Pump #1	Usage	Pump #2	Usage
1					1				
2					2				
3					3	11517.3	2.9	12949.3	2.3
4					4				
5					5	11521.5	4.2	12952.5	3.2
6					6				
7					7	11525.3	3.8	12955.3	2.8
8					8				
9					9				
10					10	11530.7	5.4	12959.6	4.3
11					11				
12	*		*		12	11534.7*	4.0	12962.8*	3.2
13	*		*		13	*		*	
14					14	11538.6	3.9	12966.0	3.2
15					15				
16					16				
17					17	11545.0	6.4	12971.2	5.2
18					18				
19					19				
20					20				
21					21	11552.7	7.7	12977.1	5.9
22					22				
23					23				
24					24	11558.3	5.6	12981.6	4.5
25					25				
26					26	11561.8	3.5	12984.8	3.2
27					27				
28					28	11565.9	4.1	12987.4	2.6
29					29				
30					30				
31					31				

* Or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Lakeside Lift Station					Cherry St. Lift Station				
Date	Pump #1	Usage	Pump #2	Usage	Date	Pump #1	Usage	Pump #2	Usage
1					1				
2					2				
3	10479.6	9.9	11624.1	11.0	3	2449.6	3.2	4429.5	3.7
4					4				
5	10485.5	5.9	11631.0	6.8	5	2454.9	5.3	4433.5	4.0
6					6				
7					7	2455.4	0.5	4436.6	3.1
8					8				
9					9				
10	10502.4	16.9	11649.6	18.6	10	2461.0	5.6	4442.1	5.5
11					11				
12	10509.5*	7.1	11656.8*	7.2	12	2464.1*	3.1	4445.3*	3.2
13	*		*		13	*		*	
14	10516.3	6.8	11663.1	6.3	14	2468.4	4.3	4449.7	4.4
15					15				
16					16				
17	10527.8	11.5	11674.5	11.4	17	2473.4	5.0	4454.7	5.0
18					18				
19	10533.9	6.1	11681.8	7.3	19	2476.7	3.3	4457.9	3.2
20					20				
21	10540.8	6.9	11688.4	6.6	21	2479.9	3.2	4460.8	2.9
22					22				
23					23				
24	10551.1	10.3	11699.4	11.0	24	2484.6	4.7	4465.3	4.5
25					25				
26	10557.6	6.5	11706.4	7.0	26	2487.6	3.0	4468.8	3.5
27					27				
28	10564.7	7.1	11713.6	7.2	28	2490.8	3.2	4471.8	3.0
29					29				
30					30				
31					31				

* Or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Cold Creek Pass Lift Station					Goose Neck Lift Station				
Date	Pump #1	Usage	Pump #2	Usage	Date	Pump #1	Usage	Pump #2	Usage
1					1				
2					2				
3	7798.5	8.6	7211.9	7.7	3	5210.8	5.0	4840.0	5.6
4					4				
5	7803.4	4.9	7216.5	4.6	5	5213.9	3.1	4843.4	3.4
6					6				
7	7808.4	5.0	7221.6	5.1	7	5217.9	4.0	4848.5	5.1
8					8				
9					9				
10					10	5224.1	6.2	4855.7	7.2
11					11				
12	7821.7*	13.3	7234.9*	13.3	12	5228.1*	4.0	4859.9*	4.2
13	*		*		13	*		*	
14	7826.7	5.0	7239.5	4.6	14	5231.9	3.8	4863.8	3.9
15					15				
16					16				
17	7835.2	8.5	7247.8	8.3	17	5237.4	5.5	4871.0	7.2
18					18				
19	7839.5	4.3	7252.0	4.2	19	5240.7	3.3	4875.0	4.0
20					20				
21	7845.0	5.5	7257.0	5.0	21	5244.2	3.5	4879.7	4.7
22					22				
23					23				
24	7853.0	8.0	7264.8	7.8	24	5250.4	6.2	4886.0	6.3
25					25				
26	7862.0	9.0	7265.6	0.8	26				
27					27	5260.4	10.0	4897.1	11.1
28	7871.6	9.6	7266.6	1.0	28				
29					29				
30					30				
31					31				

* Or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Amberly Lift Station					Lake Shore Lift Station				
Date	Pump #1	Usage	Pump #2	Usage	Date	Pump #1	Usage	Pump #2	Usage
1					1				
2					2				
3	3554.0	2.3	3572.9	2.3	3	1970.1	2.2	133.3	2.5
4					4				
5	3555.5	1.5	3574.4	1.5	5	1970.9	0.8	136.3	3.0
6					6				
7	3557.3	1.8	3576.3	1.9	7	1972.9	2.0	138.5	2.2
8					8				
9					9				
10	3560.1	2.8	3578.0	1.7	10	1976.0	3.1	141.9	3.4
11					11				
12	3562.6*	2.5	3579.9*	1.9	12	1978.0*	2.0	144.1*	2.2
13	*		*		13	*		*	
14	3566.1	3.5	3579.9	0	14	1980.0	2.0	146.3	2.2
15					15				
16					16				
17	3569.4	3.3	3583.2	3.3	17	1983.6	3.6	150.1	3.8
18					18				
19	3571.5	2.1	3584.9	1.7	19	1985.5	1.9	152.2	2.1
20					20				
21	3572.9	1.4	3586.7	1.8	21	1987.5	2.0	154.4	2.2
22					22				
23					23				
24	3575.7	2.8	3589.5	2.8	24	1990.6	3.1	157.8	3.4
25					25				
26	3577.7	2.0	3591.5	2.0	26	1992.7	2.1	160.2	2.4
27					27				
28	3579.0	1.3	3595.3	3.8	28	1994.8	2.1	162.3	2.1
29					29				
30					30				
31					31				

* Or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Newport Lift Station					Saussy Rd. Lift Station				
Date	Pump #1	Usage	Pump #2	Usage	Date	Pump #1	Usage	Pump #2	Usage
1					1				
2					2				
3	3017.9	4.4	2929.0	4.5	3	1677.9	0.5	2437.3	0.5
4					4				
5	3020.2	2.3	2931.4	2.4	5	1678.3	0.4	2437.8	0.5
6					6				
7	3023.1	2.9	2934.4	3.0	7	1678.7	0.4	2438.2	0.4
8					8				
9					9				
10					10	1679.2	0.5	2438.8	0.6
11					11				
12	3029.7*	6.6	2941.0*	6.6	12	1679.5*	0.3	2439.2*	0.4
13	*		*		13	*		*	
14	3032.5	2.8	2945.7	4.7	14	1679.8	0.3	2439.5	0.3
15					15				
16					16				
17	3036.9	4.4	2948.2	2.5	17	1680.3	0.5	2440.1	0.6
18					18				
19					19	1680.6	0.3	2440.4	0.3
20					20				
21	3042.4	5.5	2953.8	5.6	21	1680.9	0.3	2440.8	0.4
22					22				
23					23				
24	3046.2	3.8	2957.1	3.3	24	1681.4	0.5	2441.3	0.5
25					25				
26					26	1681.9	0.5	2441.8	0.5
27					27				
28	3051.3	5.1	2963.1	6.0	28	1682.3	0.4	2442.3	0.5
29					29				
30					30				
31					31				

* Or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Crossgate Lift Station				
Date	Pump #1	Usage	Pump #2	Usage
1				
2				
3	1081.3		102.0	
4				
5	1081.3	0	102.1	0.1
6				
7	1081.4	0.1	102.2	0.1
8				
9				
10	1081.6	0.2	102.3	0.1
11				
12	1081.6*	0	102.4*	0.1
13	*		*	
14				
15				
16				
17	1081.8	0.2	102.5	0.1
18				
19	1081.8	0	102.6	0.1
20				
21	1081.9	0.1	102.6	0
22				
23				
24	1082.0	0.1	102.7	0.1
25	1082.0	0	102.8	0.1
26				
27				
28	1082.1	0.1	102.8	0
29				
30				
31				

* Or * = Rain Day

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Recommendations for Wastewater Collection System:

- Upgrade Coldstream Lift Station Force Main to 12”
- Upgrade lift station pumps in Rice Hope Subdivision.
- Complete rehabilitation of Coldstream Lift Station wet well and effluent pipes.
- Inflow/Infiltration on the Downtown Area Sewer System needs to be investigated, found, and repaired.

Streets & Drainage:

Ditch Mowing	32,895 Ft
Ditches Dug	0 Ft
Ditch Debris Removal	0 Tons
Culverts Cleaned Out	0
Shoulder Mowing	323,450 Ft
Shoulder Litter Picked Up by Hand	5 Bags
Debris Pick Up Tonnage Landfill	0 Tons
Shop Dumpster Tonnage for Shoulder Litter	2.12 Tons
Potholes Fixed	1
Street Signs Replaced	2 + 13 New signs installed
Sign Pole Replaced	0
Catch Basin Repair	0
Street Sweeping Curbs	0 Ft
Street Sweeping Tonnage	0 Tons

Maintenance:

- Mow easement between Turnberry St & Aberfeldy St.
- Mow easement between Osteen St & Clifton Dr.
- Mow easement across Dixie St – Cantyre St – Hwy 25.
- Mow easement across Falkirk St – Evora St – Dixie St.
- Mow easement between Gordon St & Falkirk St.
- Mow easement between 311-313 Phillips Ave.
- Mow easement between 415 Phillips Ave and Hwy25.
- Mow easement between Phillips Ave & Commonwealth.
- Mow easement at 107 Falkirk St.
- Disposed of dead deer in ditch at 316 Cantyre St.
- Grounds maintenance at lift stations.
- Grounds maintenance at 305 South Coastal Hwy.
- Grounds maintenance around Rice Mill Rd pedestrian bridge.
- Grounds maintenance at well #1, Appleby water tower, Berrien water tower.

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Solid Waste:

Damaged Trash Cans	0
Trash Cans Picked Up	0

Wastewater Treatment Plant:

Maintenance:

- Grounds maintenance (grass, ditches, brush, weeding, herbicide, etc.).
- Emptied and washed out disk filter basins.
- Washed out UV trough (x2).
- Cleaned turbidity meter (Weekly).
- Greased bar rack, effluent pumps, reuse pumps, sidestream pumps (Weekly).
- Ran belt press (Weekly).
- Greased belt press.
- Replenished nutrient for biological odor control (x2).
- Sprayed down belt press and area (Weekly).
- Pulled and cleaned UV racks.
- Pulled basin wasting pumps and replaced oil.
- Cleaned and mopped admin weekly.

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

Port Wentworth, Ga
Monthly Operating Report
May 2021

Compliance:

Raw Wastewater Treated monthly avg. **1.006** MGD, Total raw waste **31.176** MG

Parameter	Monthly Performance Indicator Discharged from plant	Target or Limit
BOD % Removal	99%	**≥85%**
Suspended Solids % Removal	99%	**≥85%**
Effluent: Total Phosphorous Monthly Avg.	0.79 mg/L	**≤1.0mg/L**
Total Ammonia (as N) Monthly Avg.	0.06 mg/L	**≤1.0mg/L**
Ultimate Oxygen Demand Monthly Avg.	0.0 lbs./day	**0.0 lbs./day**
Injected Dissolved Oxygen Monthly Avg.	101.8 lbs./day	**≥36 lbs./day/ Million Gallon**
Solids Disposal: Sludge, total dry weight in lbs.	17,068 lbs.	**Report**

Rainfall Monthly Total: 0.88”

Attachment: ClearWater Solutions, LLC Monthly Report - May 2021 (2452 : Committee Reports)

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Leisure Services
Category: Contract
Prepared By: Tiffany Lancaster
Department Head: Tiffany Lancaster

AGENDA ITEM (ID # 2453)

DOC ID: 2453

Yearly Contract Renewal by and between Senior Citizens, Inc. and the City of Port Wentworth for 2021-2022

Issue/Item: Yearly Contract Renewal by and between Senior Citizens, Inc. and the City of Port Wentworth for 2021 - 2022.

Background: The City of Port Wentworth has had Senior Citizens Inc. as a contract service for 25 years. They have done a wonderful job helping to serve our seniors and manage our Ed Young Senior Center. They help with grant funding, transportation, daily meals, day to day activities, field trips, guidance during difficult times and circumstances, leadership in technology and news as well as fitness and healthy living activities. They have been providing shelf stable meals and frozen meals every Monday or Tuesday since we have had to close the center for COVID 19. They also have volunteers that pick up daily meals for any senior citizen that are not able to drive to the center. They have re-opened the center on May 17th safely and started daily programs and meals.

Facts and Findings: Per our contract services agreement between the City of Port Wentworth Leisure Services Department and Senior Citizens Inc. #4 of the contract under **Compensation** letter a. it states "Each year, SCI will present a budget for the operation of the center to the City for their approval. The Budget shall include all costs associated with the operation of the center including the costs of the meals and personnel. This budget will be presented before the start of the City's fiscal year."

Funding: We have budgeted the funding for FY21 in line item 100.5.6100.531118 and allocated it according to previous years. We reimburse Senior Citizens. Inc for 10% match on Title III funding, reimburse for operating expenses and additional meals not covered by AAA funding monthly.

Recommendation: I recommend that we most defiantly continue with Senior Citizens Inc. to manage our Ed Young Senior Center for FY2022. As they do an amazing job and are professional. SCI certainly knows how to manage and work with providing the best care and services for the senior community and we appreciate their expertise and guidance in Port Wentworth.

ATTACHMENTS:

- Signed by SCI Contract for Senior Center 2021-2022 (PDF)

STATE OF GEORGIA

COUNTY OF CHATHAM

CONTRACT SERVICES AGREEMENT

THIS AGREEMENT made this _03___ day of ___June___, 2021, by and between SENIOR CITIZENS, INC., a Georgia nonprofit organization (hereinafter called "SCI") and the CITY OF PORT WENTWORTH, GEORGIA (hereinafter called "the City").

WITNESSETH:

WHEREAS, SCI operates a business designated to provide older Americans with services designed to maintain independence; and

WHEREAS, the City desires SCI to furnish program and nutritional services at it Senior Citizens Center located at 305 South Coastal Highway in Port Wentworth, Georgia.

NOW, THEREFORE, in consideration of the premises and of the mutual covenants and agreements contained herein, the parties hereto, intending to be legally bound, agree as follows:

1. Employment. The City shall retain the services of SCI, and SCI shall service the City in accordance with the terms and conditions hereof.

2. Employment Period. The employment of SCI hereunder shall commence as of June 3, 2021 and shall continue until the expiration of one (1) year from the date hereof. The Agreement may be extended, with adjustments in compensation as provided in Paragraph 4(e) hereof, for two additional (1) year terms by execution of a written agreement for extension, or execution of a written agreement identical or substantially similar to this Agreement. In no event can this Agreement be extended without the written consent of both parties, and no extension may be implied through performance of the terms of this Agreement after expiration.

3. Duties. SCI's services to be performed hereunder are as follows:
   a. SCI will provide the management of the senior center located at the Ed Young facility in Port Wentworth, Georgia. This oversight will include the planning and execution of daily activities for the seniors attending the center with the goal of increasing the number of participants. Activities offered to the seniors will include trips out of the Center each year if possible. In addition, speakers on topics of interest of the clients will be part of the activities each week as well as monthly visits from the Care Advisor staff of SCI to provide one-on-one assistance with issues that may arise for the clients of the Center. A monthly calendar of activities will be provided to the City and SCI will consult with the City regarding suggestions for activities and other events at the center.
   b. On a daily basis and at the appropriate mealtime hours, SCI agrees to furnish and deliver lunch meals to the City's Senior Citizens Center. Each meal shall comply with all applicable regulations of the United States Department of Health and Human Services Administration on Aging. Meals shall be served pursuant to P.L. 89-73, (Title III of the Older Americans Act, Amendments 1992), and the Georgia Department of Human Resources, Division of Aging Services (Oao Procedural Issuance #84 10-92 and Das #98-100-106).

Attachment: Signed by SCI Contract for Senior Center 2021-2022 (2453 : Yearly Contract Renewal by and between Senior Citizens, Inc. and the

c. As many meals as possible shall be funded by SCI's Federal and State grant under the Older Americans Act of 1965, 42 U.S.C. 3021 et seq. (the "Title III Meals"). The Center will be maintained as a Title III Nutrition Service Site in accordance to the designation given by the Area Agency on Aging. SCI will be responsible for completing the required monthly meal count logs as well as any other activities required by the grants each month, including but not limited to the monitoring, reporting and supervision of services.
d. As a DHS provider, the site is eligible for transportation services at no cost to the City or clients. In addition, furniture/equipment purchased using Aging funds can continue to be utilized in the facility for the good of the senior program.
e. SCI shall also work with the City to identify and apply for any local, state and federal grants that might enhance the senior program and reduce expenses to the City.

4. Compensation.
   a. Each year, SCI will present a budget for the operation of the center to the City for their approval. The budget shall include all costs associated with the operation of the center including the costs of the meals and personnel. This budget will be presented before the start of the City's fiscal year.
   b. The City shall pay for all non-grant covered expenses within the budget. These costs will be outlined monthly on an invoice from SCI to the City. SCI shall invoice the City promptly within 30 days of the dates the service was rendered, or the costs incurred. All invoices from SCI shall indicate the period of service during which the costs were incurred. The City shall not be responsible for payment of balances due SCI which are not invoiced to the City within 90 days of the dates the service was rendered, or the costs incurred.
   c. Expenses beyond the approved budget will not be incurred without prior approval of the expenses from the City.
   d. Upon execution of this Agreement and upon any renewal thereof, the City shall pay on a monthly basis upon receiving an invoice from SCI.
   e. Compensation may be adjusted upon the mutual agreement of the parties if this Agreement is renewed based on changes in meal costs, changes in Title III compensation and SCI administration costs.

5. Relationships between Parties. SCI is employed by the City only for the purposes and to the extent set forth in this Agreement, and its relations to the City shall, during the period of providing services hereunder, be that of an independent contractor.

6. Termination of Agreement. Either party may terminate this Agreement by giving a ninety (90) day written notice.

7. Indemnification. SCI agrees to indemnify and to hold the City harmless from any claim, loss or damage to any person or property directly, indirectly, or consequentially arising out of any wrongful or negligent act or inaction on the part of SCI or any of its agents or employees in the performance of this Agreement.

8. Integration and Modification. This Agreement contains the entire agreement between the parties hereto with respect to the subject matter hereof and supersedes all prior agreements and undertakings, oral or written, between the parties with respect to the subject matter hereof. This Agreement may not be waived, changed, amended, modified or discharged except by a written instrument signed by both SCI and the City.

Attachment: Signed by SCI Contract for Senior Center 2021-2022 (2453 : Yearly Contract Renewal by and between Senior Citizens, Inc. and the

9. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Georgia, and any action hereunder may be brought in any court of competent jurisdiction within Chatham County.

10. Waiver. A waiver by the City or SCI of a breach of, or the failure to enforce, any of the provisions of this Agreement shall not operate or be construed as a waiver or excuse of any subsequent breach.

11. Severability. The invalidity of all or any part of any paragraph of this Agreement shall not render invalid the remainder of the Agreement and the remainder of such paragraph. If any provision of this Agreement is so broad as to be unenforceable, it is expressly intended by the parties hereto that such provisions shall be interpreted as to be enforceable.

12. Good Faith. Both the City and SCI have an obligation to perform their duties pursuant to this Agreement in good faith.

13. Impact on Applicable Law. The City and SCI both acknowledge the existence of federal, state, and other applicable law that dictates the duties and responsibilities of each party regarding the furnishing of nutritional services. No part of the Agreement has the effect of or is intended to impact any applicable legal duty of either party under existing law. Both parties remain responsible under applicable law for performing all stated duties and responsibilities,

14. No Third-Party Beneficiary. This Agreement shall not be construed as or deemed to be an agreement for the benefit of any third party or parities, and no third party or parties shall have any right of action under this Agreement for any cause whatsoever.

15. Assignment. This Agreement, and the rights and obligations hereunder, shall inure to the benefit and shall be binding upon the parties hereto, and their respective successors and assigns except that neither party shall assign the rights or obligations hereunder without the prior written authorization of the other party.

16. Notices. Any notices required or permitted to be given under this Agreement, either by the City to SCI or by SCI to the City shall be in writing, enclosed in an envelope with the proper postage prepaid thereon, and hand delivered or sent by certified or registered mail. Unless otherwise modified, notices shall be addressed as follows:

To the City:

City of Port Wentworth
Attn: City Administrator Ed Booth
7224 GA Hwy 21 Highway
Port Wentworth, Georgia 31407

To SCI:

Senior Citizens, Inc.
Attn: President Patti Lyons
3025 Bull Street
Savannah, Georgia 31405

17. Counterparts, Section Headings. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument. The paragraph headings of this Agreement are for convenience or reference only and shall not affect the construction or interpretation of any of the provisions hereof.

Attachment: Signed by SCI Contract for Senior Center 2021-2022 (2453 : Yearly Contract Renewal by and between Senior Citizens, Inc. and the

IN WITNESS WHEREOF, and intending to be legally bound hereby, the parties hereto have executed this Agreement on the day and year first above written.

CITY OF PORT WENTWORTH

By: _____
Mayor signature

Attest: _____

_____
Print Name and Title

SENIOR CITIZENS, INC.

By: Latricia C. Lyons
President Signature

Attest: James Kidd
James Kidd, CFO
Print Name and Title

Attachment: Signed by SCI Contract for Senior Center 2021-2022 (2453 : Yearly Contract Renewal by and between Senior Citizens, Inc. and the

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Development Services
Category: Purchase
Prepared By: Melanie Ellis
Department Head: Brian Harvey

AGENDA ITEM (ID # 2457)

DOC ID: 2457

Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 in the amount of $420,732.00 to Griffin Contracting Inc.

Issue/Item: Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 in the amount of $420,732.00 to Griffin Contracting Inc.

Background: This capital stormwater project was identified and prepared by Thomas & Hutton as a result of the City-wide drainage assessment. This project will serve to improve the drainage conditions along Bonnybridge Road and adjacent parcels. Thomas & Hutton prepared plans and a bid packet for the project. The Contract was awarded to Griffin Contracting, Inc., in the amount of $784,022.50.

Facts and Findings: The contractor has completed a portion of the work in accordance with the contract. Thomas & Hutton has reviewed the applications, quantities, and values of work submitted by the contractor, and recommends payment in the amount of $420,732.00.

Funding: Budgeted Capital Project

Recommendation: Approval based upon the recommendation of Thomas & Hutton.

ATTACHMENTS:

- Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 JUNE 2021 (PDF)

THOMAS & HUTTON
50 PARK OF COMMERCE WAY
SAVANNAH, GA 31405 | 912.234.5300
WWW.THOMASANDHUTTON.COM

May 19, 2021

Mr. Omar Senati-Martinez, CFM
Construction Inspector
City of Pt. Wentworth
7306 Highway 21, Suite 301
Port Wentworth, GA 31407

Re: Bonny Bridge Road
Secondary Outfall Improvements
Pt. Wentworth, GA
Pay Request #2
J-25412.0002.813

Dear Omar:

Thomas & Hutton is currently monitoring construction and has reviewed the enclosed Pay Application #2. We recommend a payment of $420,732.00 to Griffin Contracting, Inc. based on the terms outlined in Article 14.02.B of the General Conditions of the Contract.

If you have any questions or concerns, please do not hesitate to call me at 912-667-9793.

Sincerely,

THOMAS & HUTTON

Keith R. Strong

KRS/dmb
Enclosures

cc: Ms. Danielle Newman, Griffin
Ms. Jen Roach, T&H

Attachment: Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 JUNE 2021 (2457 : Bonnybridge Secondary Outfall

PAYMENT APPLICATION

Application Number: 2
For Period Ending: 5/31/2021

To: City of Port Wentworth
305 South Coastal Highway
Port Wentworth GA 31407

From: Griffin Contracting, INC
122 Pipemakers Circle
Suite 207
Pooler GA 31322

Project: Bonnybridge Drainage Improvements
Bonnybridge Rd
Garden City GA 31406

Project Number: 21016
Owner Project Number:

Contract Summary	
Original Contract Amount:	784,022.50
Changes Amount:	0.00
Total Contract Amount:	784,022.50
Completed To Date:	503,887.50
Retainage To Date:	50,388.75
Completed Less Retainage:	453,498.75
Less Previous Application:	32,766.75
Current Payment Due:	420,732.00
Current Payment Due Plus Tax:	420,732.00
Balance To Finish:	280,135.00

Contractor's Certification

I hereby certify that the work for which this application is being submitted has been performed or is scheduled to be performed on or before the period ending date. I further certify that this work is in accordance with contract documents.

Signature

5/19/2021
Date

Attachment: Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 JUNE 2021 (2457 :

PAYMENT APPLICATION DETAILS

Customer: City of Port Wentworth
Project: Bonnybridge Drainage Improvements

Application Number: 2
Invoice Number: 21016-002

Period From: 4/1/2021
Period Through: 5/31/2021

Item Number - Description	Unit Price	Unit of Measure	Contract Quantity	QUANTITY		AMOUNT	
				This Period	Project To Date	This Period	Project To Date
01 - Mobilization	22,506.0000	LS	1.0000	0.0000	1.0000	0.00	22,506.00
02 - Clearing & Grubbing	13,226.0000	AC	1.0000	0.0000	0.7500	0.00	9,919.50
03 - Grading	27.1000	SY	2,560.0000	0.0000	0.0000	0.00	0.00
04 - Earthen Maintenance Rd	8.0000	SY	2,280.0000	0.0000	0.0000	0.00	0.00
05 - 48" Tide Gate	13,018.0000	EA	2.0000	0.0000	0.0000	0.00	0.00
06 - TP 3 Rip Rap 12"	111.5000	SY	70.0000	0.0000	0.0000	0.00	0.00
07 - Storm Drain Pipe 48" CL V	169.4000	LF	2,636.0000	2,600.0000	2,600.0000	440,440.00	440,440.00
08 - Storm Drain Pipe 24" CL III	61.8000	LF	54.0000	0.0000	0.0000	0.00	0.00
09 - Storm Drain Pipe 18" CL III	400.0000	LF	5.0000	0.0000	0.0000	0.00	0.00
10 - Flared End Section 24"	859.0000	EA	2.0000	0.0000	0.0000	0.00	0.00
11 - Flared End Section 18"	752.0000	EA	1.0000	0.0000	0.0000	0.00	0.00
12 - Storm Drain Junction Box	18,292.0000	EA	4.0000	1.0000	1.0000	18,292.00	18,292.00
13 - DBL Headwall 48"	22,236.0000	EA	2.0000	0.0000	0.0000	0.00	0.00
14 - Removal of Extg Pipe	16.7000	LF	40.0000	0.0000	0.0000	0.00	0.00
15 - Clean Extg Pipe	2,082.0000	LS	1.0000	0.0000	0.0000	0.00	0.00
16 - Flow Control Water Management	16,553.0000	LS	1.0000	0.0000	0.0000	0.00	0.00
17 - Utilities Coordination	1,158.0000	LS	1.0000	0.0000	0.0000	0.00	0.00
18 - Traffic Control	2,288.0000	LS	1.0000	0.0000	0.5000	0.00	1,144.00
19 - Construction Exit	2,838.0000	EA	1.0000	0.0000	1.0000	0.00	2,838.00
20 - Silt Fence TP C / S DBL Row	7.2000	LF	1,215.0000	1,215.0000	1,215.0000	8,748.00	8,748.00

Attachment: Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 JUNE 2021 (2457 :

PAYMENT APPLICATION DETAILS

Customer: City of Port Wentworth
Project: Bonnybridge Drainage Improvements

Application Number: 2
Invoice Number: 21016-002

Period From: 4/1/2021
Period Through: 5/31/2021

Item Number - Description	Unit Price	Unit of Measure	Contract Quantity	QUANTITY		AMOUNT	
				This Period	Project To Date	This Period	Project To Date
21 - SIite Fence TP A / NS	2.3000	LF	2,775.0000	0.0000	0.0000	0.00	0.00
22 - Temporary Grassing	0.4600	SY	7,780.0000	0.0000	0.0000	0.00	0.00
23 - Permanent Grassing	0.7200	SY	7,780.0000	0.0000	0.0000	0.00	0.00
24 - Dust Control	480.0000	LS	1.0000	0.0000	0.0000	0.00	0.00
25 - Floating Sediment Barrier	1,338.0000	EA	1.0000	0.0000	0.0000	0.00	0.00
26 - NPDES	3,132.0000	LS	1.0000	0.0000	0.0000	0.00	0.00
27 - Borrow Material	0.0000	CY	0.0000	0.0000	0.0000	0.00	0.00
28 - Remove Unsuitable Material	0.0000	CY	0.0000	0.0000	0.0000	0.00	0.00
					Project Totals:	467,480.00	503,887.50

Attachment: Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 JUNE 2021 (2457 :

CONTRACTOR'S AFFIDAVIT AND LIEN WAIVER

PERSONALLY APPEARED before me, the undersigned attesting authority in and for the State of Georgia and Chatham County, the undersigned deponent, who being first duly sworn, on oath deposes and says as follows:

1. That the undersigned is the contractor ("Contractor") who contracted with the City of Port Wentworth (the "City") for the following work:
Bonnybridge Road Outfall Improvements

performed upon or with regard to the following property: Bonnybridge Road Port Wentworth, GA

2. A contract for such work was executed on 03/11/2021 and may subsequently have been amended by one or more change orders (collectively referred to herein as the "Contract").

3. The undersigned warrants that the work described by such Contract has been fully completed according to the terms of the Contract between Contractor and City, and in accordance with all change orders thereto, and that all bills incurred for labor, material and/or services furnished or performed in connection with such work have been fully paid, without exception, including the bills of all mechanics, materialmen, suppliers or laborers used by me or by my subcontractors.

4. The undersigned acknowledges receipt of all monies which Contractor and all of Contractor's mechanics, materialmen, suppliers, laborers, and other subcontractors are due under the terms of said Contract. This Affidavit is made under the provisions of Official Code of Georgia annotated Section 44-14-361.2 and is made for the purpose of inducing said City to pay the balance of their contract price to Contractor.

5. Contractor expressly and unconditionally waives any lien rights which Contractor has or may have against or with regard to City or City's aforesaid Property.

CONTRACTOR:

Danielle Vinson
WITNESS

Printed Name: Brian G Batemore

Address: 122 Pipemaker Circle Ste 207
Pooler Ga 31322

Sworn to and subscribed before me this 27 day of April, 2019 2021

Notary Public

My Commission Expires: 11/2/2022

KIMBERLY LUCKEY NOTARY PUBLIC GEORGIA EXPIRES 11/02/2022 EFFINGHAM COUNTY

Attachment: Bonnybridge Road Secondary Outfall Improvements Pay Request No. 2 JUNE 2021 (2457 : Bonnybridge Secondary Outfall

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: City Administrator
Category: Agreement
Prepared By: Shanta Scarboro
Department Head: Edwin L. Booth

AGENDA ITEM (ID # 2464)

DOC ID: 2464

Temsco Maintenance Agreement

Issue/Item: Temsco Maintenance Agreement.

Background:
Temsco, Inc., an authorized service provider for Trojan UV, proposes a maintenance agreement on the UV 3000 Plus installed at the Port Wentworth Wastewater Treatment Facility.

The maintenance agreement lists the number of annual visits, specified services, cancellation policy and the cost for services at a total annual charge of $9,600.00.

Funding:
Funding for this agreement will be pulled from the Sewage Treatment Plant - Equipment Repairs & Maintenance Line Item # 505-5-4335-522203.

Recommendation:
Approval.

ATTACHMENTS:

- TEMSCO Maintenance Agreement (PDF)

EMSCO

Suite 300
4324 Brogdon Exchange
Suwanee, GA 30024
Phone: 770.614.0194 ▼ Fax: 770.614.0325
e-mail: joe@TEMSCOinc.com

Maintenance Agreement

TEMSCO, Inc., as Authorized Service Provider for Trojan UV, agrees to provide maintenance service on the UV 3000 Plus installed at the Port Wentworth WWTP. Basic Maintenance agreement includes 4 visits annually, beginning May 1, 2021 and ending April 30, 2022. All charges specified are those currently in effect and are subject to change only at the time of subsequent annual renewal. If charges are increased, the customer may, as of the effective date of the said increase, terminate this agreement by written notice to TEMSCO, Inc. Otherwise, the new charges shall become effective upon the date specified in the renewal invoice.

This agreement is limited to the equipment specified herein and the services referenced below. Any additional equipment or services will be negotiated as required. TEMSCO, Inc. will perform specified service during normal business hours. The owner will be required to insure any equipment downtime that is required to perform said maintenance/service is scheduled accordingly. The owner is also responsible for providing a clean, safe, well-lit working environment.

The specific equipment included in this agreement is Trojan 3000 Plus .
Serial # 511557
Location – Port Wentworth, GA

The specific services included in this agreement are listed in the attached Trojan UV Operator's Document (attachment 1).

Upon completion of each service visit, TEMSCO, Inc. will provide the customer with a written service report confirming the completion of each required task as well as any recommendation for operational changes or expected parts required for ongoing customer maintenance.

TEMSCO, Inc. will install only OEM parts for service work provided. Likewise we expect any parts provided by the customer to be purchased from the OEM. Though certain components required for service and maintenance are pure commodities (such as nuts, bolts, paint, etc.) most components are critical to the overall operation of the system, therefore we highly recommend using only factory approved parts for any component replacement.

Attachment: TEMSCO Maintenance Agreement (2464 : Temsco Maintenance Agreement)

Likewise, we expect that all service, maintenance, component replacement, programming changes, etc. performed on equipment above will be performed only by Authorized technicians and that TEMSCO, Inc. is informed by written report of any changes/adjustments made to said equipment. Should additional/correctional service be required as a result of the work of an unauthorized contractor, it will be billed in addition to the charges in this agreement.

For Service as specified above on the equipment listed, the undersigned agrees to pay in advance the total annual charge of $9,600.00 to TEMSCO, Inc. in accordance with the terms specified in the resultant invoice. The owner is then entitled to pricing benefits for any service requirements outside the scope of this contract and on all parts purchases. Throughout the term of contract, any additional service visits will be billed at a rate of 10% below our standard service rates and all parts purchased through Templeton and Associates, our equipment and parts affiliate, will be billed at a rate of 5% below standard pricing. Any applicable taxes are not included in the terms of this agreement.

The undersigned represents that they are the Legal Owner of the equipment referenced in this contract and that they have the authority to enter into this agreement.

This agreement is subject to acceptance by TEMSCO, Inc. The agreement takes effect on the date written below and will remain in effect thereafter, with automatic renewals at the prevailing rates, until cancelled in writing by either party. If cancelled, the unused portion of any advance payment will be credited to the customer.

Date _____ TEMSCO, Inc.

By: _____

Date: _____ "Customer"

By: _____

Attachment: TEMSCO Maintenance Agreement (2464 : Temsco Maintenance Agreement)

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Development Services
Category: Planning/Zoning Item
Prepared By: Melanie Ellis
Department Head: Brian Harvey

AGENDA ITEM (ID # 2454)

DOC ID: 2454

Site Plan Review Application submitted by Phillip McCorkle, McCorkle, Johnson & McCoy LLP., of behalf of L-A Savannah Crossgate, LLC., for PIN # 7-0035-01-007 (Northeast corner of Crossgate Rd & Jimmy Deloach Parkway) for a General Development Site Plan to allow a warehouse development in a P-I-1 (Planned Industrial) Zoning District

Issue/Item: Site Plan Review Application submitted by Phillip McCorkle, McCorkle, Johnson & McCoy LLP., of behalf of L-A Savannah Crossgate, LLC., for PIN # 7-0035-01-007 (Northeast corner of Crossgate Rd & Jimmy Deloach Parkway) for a General Development Site Plan to allow a warehouse development in a P-I-1 (Planned Industrial) Zoning District

Background: The subject property is currently vacant woodland. There are no buildings or structures on the subject property.

Facts and Findings: The proposed project consist of a 332,450 s.f. warehouse and a 96,250 s.f. warehouse with associated parking, utilities, drainage and infrastructure improvements. The entrance will be located off of Crossgate Road.

Funding: N/A

Recommendation: The Planning Commission will hear this application on Monday, April 12, 2021 at 6:30 PM. **/ UPDATE: THE PLANNING COMMISSION VOTED UNANIMOUSLY TO APPROVE THIS APPLICATION.**

ATTACHMENTS:

- PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (PDF)
- PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-SITE PLAN 3.11.21 (PDF)
- Planning Commission Minutes April 12, 2021 DRAFT (PDF)

200283

RECEIVED
MAR 11 2021
BY: KS

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

Site Plan Review Application

Site Plan Application is required for all new construction in a "P" or "MPO" zone as defined in the Zoning Ordinance of the City of Port Wentworth.

Site Plan Type (*Check One*): ☑ General / Concept ☐ Specific Development

Site Plan Address: Northeast corner of Crossgate Road and Jimmy Deloach Parkway

PIN #(s): 7-0035-01-007

Zoning: P-I-1 Estimated Cost of Construction: $ 20,000,000.00

Type of Construction: _____

Applicant's Name: Phillip R. McCorkle

Mailing Address: McCorkle, Johnson & McCoy, LLP, 319 Tattnall St., Savannah, GA 31401

Phone #: (912) 232-6000 Email: prm@mccorklejohnson.com

Owner's Name (If Different form Applicant): L-A Savannah Crossgate, LLC

Mailing Address: 1960 Satellite Boulevard, Suite 3000, Duluth, GA 30097

Phone #: (770) 962-3000 Email: chayes@crossgateconsulting.com

I hereby acknowledge that the above information is true and correct.

Applicant's Signature — Date: 3/10/21

Owner's Signature (If Different form Applicant) — Date

Please see page 2 for required submittal checklist

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

Site Plan Review Application Submittal Checklist

Documentation below is required for a complete submittal.

- ☑ Signed and Completed Application
- ☑ 3 Full size sets of site plan civil drawings or concept plan (depending on type of site plan)
- ☑ 15 half size (11" X 17") sets of site plan civil drawings or concept plan (depending on type of site plan)
- ☐ 2 copies of hydrology reports (if applicable)
- ☑ Names, mailing address, and PIN number of all property owners within 250 feet of all property lines
- ☑ 1 8 ½" X 11" of site plan civil drawings or concept plan (depending on type of site plan)
- ☑ PDF of entire submittal (either flash drive or CD)
- ☐ Other Engineering details or reports may be required once submittal has been received
- ☐ Site plan review fee check
    - No Land Disturbance- $206.00 Site Plan Fee + $50.00 Admin Fee = Total $256.00
    - With Land Disturbance - $836.00 Site Plan Fee + $50.00 Admin Fee = Total $886.00

Additional Fee Statement: If engineer review cost to the City exceeds the site plan review fee that is paid at the time of initial application submittal, you may be required to pay additional review cost.

I have read and agree to the above additional fee statement

Applicant's Signature

3/11/21
Date

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

CITY OF PORT WENTWORTH

(912) 964-4379

REC#: 00289827 10/16/2020 11:06 AM
OPER: ME TERM: 011
REF#: CK 2510

TRAN: 112.0000 BLDG PERMIT
200283 886.00CR
L-A SAVANNAH CROSSGATE, LLC
7-0035-01-007
DEV-SPR 886.00CR

TENDERED: 886.00 CHECK
APPLIED: 886.00-

CHANGE: 0.00

WWW.CITYOFPORTWENTWORTH.COM

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

AUTHORIZATION OF PROPERTY OWNER

Application for Rezoning or Variance

I swear that I am the owner of the property which is the subject matter of the attached application, as is shown in the records of Port Wentworth, Georgia.

I authorize the person named below to act as applicant in the pursuit of a variance or for the rezoning of this property.

Name of Applicant: Phillip R. McCorkle, McCorkle, Johnson & McCoy, LLP

Address: 319 Tattnall Street, Savannah, Georgia 31401

Telephone Number: (912) 232-6000

L-A Crossgate-Savannah, LLC

Signature of Owner

By: Gerald A. Ronon

Its: Authorized Signatory

Personally appeared before me

Gerald A. Ronon

who swears that the information contained in this authorization is true and correct to the best of his or her knowledge and belief.

Notary Public

SHELLY KACZYNSKI NOTARY PUBLIC GWINNETT COUNTY, GEORGIA MY COMMISSION EXPIRES MARCH 6, 2023

9/9/2020

Date

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

Property Owners Within 250 Feet
(As Requested by the Application Form)

Name:	NRPH, Inc.
PIN:	70035 01005
Property Address:	1000 Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	NRPH, Inc. c/o Noritake Co., Inc. 15-22 Fair Lawn Avenue. Suite 2A Fair Lawn, New Jersey 07410

Name:	Georgia Power Company
PIN:	70035 01006
Property Address:	Highway 21 Port Wentworth, Georgia 31407
Mailing Address:	Georgia Power Company Tax Department Bin 10120 241 Ralph McGill Boulevard NE Atlanta, Georgia 30308

Name:	Stravinksi Development Group, LLC
PIN:	70033 01004
Property Address:	Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	Stravinksi Development Group, LLC 413 W. Yosemite Avenue, Suite 105 Madera, California 93637

Name:	Southern Region Industrial Realty, Inc.
PIN:	70009 01001
Property Address:	Birkenhead Street Port Wentworth, Georgia 31407
Mailing Address:	Southern Region Industrial Realty, Inc. c/o Norfolk Southern Tax Department Attn: Braulia Charris 3 Commercial Place, Unit 209 Norfolk, Virginia 23510

Name:	Southern Region Industrial Realty, Inc.
PIN:	70009 01002
Property Address:	Coastal Highway Port Wentworth, Georgia 31407
Mailing Address:	Southern Region Industrial Realty, Inc. c/o Norfolk Southern Tax Department Attn: Braulia Charris 3 Commercial Place, Unit 209

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

Property Owners Within 250 Feet
(As Requested by the Application Form)

Norfolk, Virginia 23510

Name:	Southern Region Industrial Realty, Inc.
PIN:	70010 01001
Property Address:	Dorset Road Port Wentworth, Georgia 31407
Mailing Address:	Southern Region Industrial Realty, Inc. c/o Norfolk Southern Tax Department 3 Commercial Place, Unit 209 Norfolk, Virginia 23510

Name:	Crossgate Industrial Investors, LLC
PIN:	70035 01008
Property Address:	1500 Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	Crossgate Industrial Investors, LLC 1776 Peachtree Street NW, Suite 100 Atlanta, Georgia 30309

Name:	Savannah Economic Development Authority
PIN:	70033 01005
Property Address:	1501 Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	Savannah Economic Development Authority 131 Hutchinson Island Road Savannah, Georgia 31421

Name:	Savannah Economic Development Authority
PIN:	70009 02002
Property Address:	1 Birkenhead Street Port Wentworth, Georgia 31407
Mailing Address:	Savannah Economic Development Authority 131 Hutchinson Island Road Savannah, Georgia 31421

Name:	Kelly Laperal Gunn
PIN:	70008 03037
Property Address:	60 Warren Drive Port Wentworth, Georgia 31407
Mailing Address:	Kelly Laperal Gunn 117 Wren Court Savannah, Georgia 31419

Name:	Johnny R. Berry
PIN:	70008 03036

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

Property Owners Within 250 Feet
(As Requested by the Application Form)

Property Address:	58 Warren Drive Port Wentworth, Georgia 31407
Mailing Address:	Johnny R. Berry 215 Shearhouse Road Guyton, Georgia 31312
Name:	Cynthia D. Gunn & Kelly L. Gunn
PIN:	70008 03035
Property Address:	56 Warren Drive Port Wentworth, Georgia 31407
Mailing Address:	Cynthia D. Gunn & Kelly L. Gunn 117 Wren Court Savannah, Georgia 31419
Name:	Daniel E. McMahon
PIN:	70008 03034
Property Address:	54 Warren Drive Port Wentworth, Georgia 31407
Mailing Address:	Daniel E. McMahon 54 Warren Drive Savannah, Georgia 31407
Name:	John Patrick Cooper
PIN:	70008 03033
Property Address:	52 Warren Drive Port Wentworth, Georgia 31407
Mailing Address:	John Patrick Cooper 52 Warren Drive Port Wentworth, Georgia 31407
Name:	Julia McCaskle & Sarah Harris
PIN:	70010 18008
Property Address:	101 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Julia McCaskle & Sarah Harris 2059 Lilac Court, Apt. A Augusta, Georgia 30905
Name:	Robert Ewing Hendrick, Jr.
PIN:	70010 18007
Property Address:	103 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Robert Ewing Hendrick, Jr. 103 Gordon Street Port Wentworth, Georgia 31407

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

Property Owners Within 250 Feet
(As Requested by the Application Form)

Name:	Gary Wilson Norton & Donna Norton
PIN:	70010 18006
Property Address:	105 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Gary Wilson Norton & Donna Norton 105 Gordon Street Port Wentworth, Georgia 31407

Name:	Karen D. Partain & Edith F. Partain
PIN:	70010 18005
Property Address:	107 Gordon Road Port Wentworth, Georgia 31407
Mailing Address:	Karen D. Partain & Edith F. Partain 107 Gordon Road Port Wentworth, Georgia 31407

Name:	Julie Stallings Perry
PIN:	70010 18004
Property Address:	109 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Julie Stallings Perry 109 Gordon Street Port Wentworth, Georgia 31407

Name:	Jacqueline Watson
PIN:	70010 18003
Property Address:	111 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Jacqueline Watson 111 Gordon Street Port Wentworth, Georgia 31407

Name:	Pamela Brownfield
PIN:	70010 18002
Property Address:	113 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Pamela Brownfield 113 Gordon Street Port Wentworth, Georgia 31407

Name:	Owen E. McIntosh, Sr. & Erma J. McIntosh
PIN:	70010 18001
Property Address:	115 Gordon Street Port Wentworth, Georgia 31407

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

Property Owners Within 250 Feet
(As Requested by the Application Form)

Mailing Address:	Owen E. McIntosh, Sr. & Erma J. McIntosh 115 Gordon Street Port Wentworth, Georgia 31407
Name:	Real Life Christian Fellowship Church
PIN:	70013 03010
Property Address:	841 Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	Real Life Christian Fellowship Church P.O. Box 18344 Garden City, Georgia 31408
Name:	Real Life Christian Fellowship Church
PIN:	70013 03001
Property Address:	841 Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	Real Life Christian Fellowship Church P.O. Box 18344 Garden City, Georgia 31408
Name:	Hugh Vernon Morris
PIN:	70013 03002
Property Address:	908 Akin Drive Port Wentworth, Georgia 31407
Mailing Address:	Hugh Vernon Morris 908 Akin Drive Port Wentworth, Georgia 31407
Name:	Robert M. Schoenbeck & Shannon M. Tomlinson
PIN:	70013 03009
Property Address:	829 Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	Robert M. Schoenbeck & Shannon M. Tomlinson 829 Crossgate Road Port Wentworth, Georgia 31407
Name:	Wanda D. Rollf
PIN:	70010 17017
Property Address:	836 Crossgate Road Port Wentworth, Georgia 31407
Mailing Address:	Wanda D. Rollf 836 Crossgate Road Port Wentworth, Georgia 31407
Name:	Brad Derek Coleman & Harris H. Moore, Jr.

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

Property Owners Within 250 Feet
(As Requested by the Application Form)

PIN:	70010 17016
Property Address:	114 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Brad Derek Coleman & Harris H. Moore, Jr. P.O. Box 525 Springfield, Georgia 31329

Name:	Edna Dollie Dixon
PIN:	70010 17015
Property Address:	112 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Edna Dollie Dixon 112 Gordon Street Port Wentworth, Georgia 31407

Name:	Richard Henry Chester
PIN:	70010 17014
Property Address:	110 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Richard Henry Chester 110 Gordon Street Port Wentworth, Georgia 31407

Name:	Teresa A. Strickland
PIN:	70010 17013
Property Address:	108 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Teresa A. Strickland 108 Gordon Street Port Wentworth, Georgia 31407

Name:	Jack G. Rigdon
PIN:	70010 17012
Property Address:	106 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Jack G. Rigdon 106 Gordon Street Port Wentworth, Georgia 31407

Name:	George Litzinger & Carol Litzinger
PIN:	70010 17011
Property Address:	104 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	George Litzinger & Carol Litzinger 104 Gordon Street

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

Property Owners Within 250 Feet
(As Requested by the Application Form)

Port Wentworth, Georgia 31407

Name:	Jeremy Hendrix
PIN:	70010 17010
Property Address:	102 Gordon Street Port Wentworth, Georgia 31407
Mailing Address:	Jeremy Hendrix 102 Gordon Street Port Wentworth, Georgia 31407

Q:\DATA\WPDATA\9300\9342-01 Property Owners Within 250 Feet.docx

Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-APPLICATION (2454 : Site Plan Review Application

UNDISTURBED BUFFER
±1.1 AC

PROPERTY BOUNDARY -
±41.5 AC OVERALL

UNDISTURBED BUFFER
±0.7 AC

EXISTING NORFOLK SOUTHERN RAIL ROAD

15' PLANTED BERM

EXISTING 50' GAS EASEMENT

STORM POND

PROPOSED FACILITY -
332,450 SF
±200 EMPLOYEE SPACES
±51 TRAILER SPACES
±60 DOCK DOORS

190'
857'
350'
130'
60'
135'
240'

STORM POND

PROPOSED FACILITY -
96,250 SF
±95 EMPLOYEE SPACES
±32 TRAILER SPACES
±24 DOCK DOORS

250'
425'
190'

LANDSCAPED AREA

CROSSGATE RD

NO TURN SIGNS TO DISALLOW TURNS HEADING EAST ON CROSSGATE

CONNECTOR ROAD FROM SLIP RAMP OFF OF JIMMY DELOACH VIA GRANGE ROAD

JIMMY DELOACH PARKWAY

GUARD SHACK

GRAPHIC SCALE: 1 INCH = 100 FEET

PREPARED FOR:

CONCEPTUAL LAYOUT EXHIBIT

PROJECT 350k & 96 SF

CITY OF PORT WENTWORTH / CHATHAM COUNTY / GA

MARCH 11, 2021

THOMAS & HUTTON

50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300

www.thomasandhutton.com

This map illustrates a general plan of the development which is for discussion purposes only, does not limit or bind the owner/developer, and is subject to change and revision without prior written notice to the holder. Dimensions, boundaries and position locations are for illustrative purposes only and are subject to an accurate survey and property description.

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Attachment: PIN #7-0035-01-007 CROSSGATE WAREHOUSES GSITE PLAN APRIL 2021-SITE PLAN 3.11.21 (2454 : Site Plan Review Application (General) PIN # 7-0035-01-007 Crossgate Road)

CITY OF PORT WENTWORTH

PLANNING COMMISSION

APRIL 12, 2021

Via Teleconference GoToMeeting | **Regular Meeting** | **6:30 PM**

7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

1. CALL MEETING TO ORDER

Chairman CJ Neesmith called the meeting to order.

2. PRAYER AND PLEDGE OF ALLEGIANCE

Vice-Chairman Rufus Bright led the Prayer and Pledge of Allegiance.

3. ROLL CALL - SECRETARY

Attendee Name	Title	Status	Arrived
Bill Herrin	Planning Commissioner	Present	
Rufus Bright	Planning Commissioner	Present	
Rosetta Franklin	Planning Commissioner	Present	
Wanda Rollf	Planning Commissioner	Present	
Lauree Morris	Planning Commissioner	Present	
CJ Neesmith	Planning Commissioner	Present	
Gabrielle Nelson	Planning Commissioner	Late	
Brian Harvey	Director of Development Services	Present	
Melanie Ellis	Permit Technician	Present	

4. APPROVAL OF AGENDA

1. Approval of Agenda

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Rufus Bright, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris
ABSENT:	Nelson

5. ADOPTION OF MINUTES

A. Planning Commission - Regular Meeting - Mar 8, 2021 6:30 PM

RESULT:	**ACCEPTED AS AMENDED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris
ABSENT:	Nelson

6. ZONING MAP AMENDMENTS (REZONING)

Attachment: Planning Commission Minutes April 12, 2021 DRAFT (2454 : Site Plan Review Application (General) PIN # 7-0035-01-007 Crossgate

A. Zoning Map Amendment Application submitted by Joe McNamee for PIN's # 7-0906-02-003B & 7-0906-02-009 (8173 Old Highway 21) to Rezone from PUD-O (Planned Unit Development - Office) to P-C-1 (Planned Neighborhood Business) Zoning District for the purpose of Commercial Uses

The applicant Joe McNamee was present and gave a brief overview of why he would like to rezone his property and offered to answer any questions the Commission may have. Commissioner Morris asked exactly where the property was located. Mr. McNamee responded with the location of the property, which is on Highway 21 before you get to Randall's Package shop. There were no public comments. After several minutes of discussion, Commissioner Herrin made a motion to approve. Commissioner Morris seconded the motion to approve. The vote was unanimous.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Lauree Morris, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris
ABSENT:	Nelson

7. ZONING TEXT AMENDMENTS (ORDINANCES)

8. SITE PLAN/SUBDIVISION APPROVAL

A. Site Plan Review Application submitted by Phillip McCorkle, McCorkle, Johnson & McCoy LLP., of behalf of L-A Savannah Crossgate, LLC., for PIN # 7-0035-01-007 (Northeast corner of Crossgate Rd & Jimmy Deloach Parkway) for a General Development Site Plan to allow a warehouse development in a P-I-1 (Planned Industrial) Zoning District

The applicant, Phillip McCorkle was present. Mr. McCorkle gave a brief presentation and offered to answer any questions the commission may have. Commissioner Rollf asked what the plan is to keep trucks from going down Crossgate Road on the Highway 25 side of the railroad tracks. Mr. McCorkle responded that it's his understanding that additional "no truck" signage has been installed on Crossgate Road and that traffic citations issued by City of Port Wentworth Police would possibly assist in the stopping the truck traffic. Commissioner Rollf suggested the need for a traffic camera on Crossgate Road to issue tickets, similar to what is at the school. Commissioner Morris asked about buffers around the stormwater pond. Mr. McCorkle stated that more information on the buffer around the pond would be in the specific site plan once the pond has been designed. There were no public comments. After several minutes of discussion, Commissioner Morris made a motion to approve. Commissioner Franklin seconded the motion to approve. The vote was unanimous.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Lauree Morris, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris, Nelson

B. Site Plan Review Application submitted by Claret Communities, LLC., of behalf of Simz Investment Company, LLC., for PIN # 7-0976-02-027 (Highway 30) for a General Development Site Plan to allow a multi-family development in a P-RIP (Planned Residential Institutional) Zoning District

John Paul Moore, Thomas & Hutton, was present on behalf of the applicant. Mr. Moore gave a presentation on the project and offered to answer any questions the commission may have. Commissioner Bright asked if the items in the Department of the Army letter included in the application packet had been addressed. Mr. Moore responded that the letter addressed the wetlands on the property and they would not be disturbing them. Commissioner Bright asked questions regarding traffic concerns on Highway 30. Mr.

Attachment: Planning Commission Minutes April 12, 2021 DRAFT (2454 : Site Plan Review Application (General) PIN # 7-0035-01-007 Crossgate

Moore stated they would do a full traffic study for the specific development plan. Commissioner Herrin and Nelson stated the traffic on Highway 30 and Highway 21 currently is very dangerous. Nathan Long, Thomas & Hutton, stated that by the time this project construction is completed the GDOT improvements at the intersection of Highway 30 and Highway 21 should be completed. Commissioner Morris asked what the plan was to keep trash out of the wetland areas. Mr. Moore responded that the stormwater on the site would drain to the detention pond and be treated before discharged. Bill Rovolis, 104 Commonwealth Ave, asked about the total units of the project and if there would be any access from the property to Berrin Road. Mr. Moore responded 364 total units and there would be no access to Berrin Road from this project. Lee Terry, Claret Communities, LLC., stated this is a high quality project. After several minutes of discussion, Commissioner Morris made a motion to approve. Commissioner Franklin seconded the motion. The vote was unanimous.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Lauree Morris, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris, Nelson

C. Site Plan Review Application submitted by Joshua Cox, Buckel Design Group of behalf of Parker's #16 LLC., for PIN # 7-0035-01-003 & 7-0035-01-004 (6000 Highway 21) for a Specific Development Site Plan to allow a Truck Stop Expansion in a P-C-3 (Planned General Business) Zoning District

The applicant, Josh Cox, was present. Mr. Cox gave a presentation of the project and offered to answer any questions the Commission may have. Commissioner Herrin asked there would be any overnight parking. Mr. Cox responded that it is fueling operations only, no overnight truck parking. Commissioner Morris asked if they have responded to any of the comments from the City engineer review. Mr. Cox responded that they are working to resubmit soon. There were no public comments. After several minutes of discussion, Commissioner Morris made a motion to approve condition upon all engineer comments being addressed. Commissioner Herrin seconded the motion. The vote was unanimous.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Lauree Morris, Planning Commissioner
SECONDER:	Bill Herrin, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris, Nelson

D. Site Plan Review Application submitted by John Farmer, P.E., Fretus Engineering, LLC., of behalf of Yash Desai, Stature Investments for PIN # 7-0037-02-007 (Magellan Blvd, Port City Car Wash) for a Specific Development Site Plan to allow a Car Wash in a P-C-3 (Planned General Business) Zoning District

The applicant, John Farmer, was present. Mr. Farmer gave a brief presentation of the project and offered to answer any questions the Commission may have. Commissioner Herrin asked where this project was located. Mr. Farmer stated it was the property straight across from City Hall on Magellan Blvd. Commissioner Morris asked if they have responded to the City engineer's comments. Mr. Farmer responded they are working on resubmitting. Commissioner Bright asked what were the plans for the crosswalk. Mr. Farmer answered that they would be the standard ADA crosswalk with signage and markings. There were no public comments. After several minutes of discussion, Commissioner Morris made a motion to approve with the condition that all engineer comments be addressed. Commissioner Bright seconded the motion. The vote was unanimous.

Attachment: Planning Commission Minutes April 12, 2021 DRAFT (2454 : Site Plan Review Application (General) PIN # 7-0035-01-007 Crossgate

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Lauree Morris, Planning Commissioner
SECONDER:	Rufus Bright, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris, Nelson

9. NEW BUSINESS

Commissioner Herrin asked that training be provided for the Commission. Mr. Harvey answer that he would work on it.

10. ADJOURNMENT

A. Adjournment

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Rosetta Franklin, Planning Commissioner
SECONDER:	Rufus Bright, Planning Commissioner
AYES:	Herrin, Bright, Franklin, Rollf, Morris, Nelson

_____

Chairman

The foregoing minutes are true and correct and approved by me on this _____ day of _____, 2021.

_____

Secretary

Attachment: Planning Commission Minutes April 12, 2021 DRAFT (2454 : Site Plan Review Application (General) PIN # 7-0035-01-007 Crossgate

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Development Services
Category: Planning/Zoning Item
Prepared By: Melanie Ellis
Department Head: Brian Harvey

AGENDA ITEM (ID # 2455)

DOC ID: 2455

Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of Northpoint Industrial, LLC., for of PIN #'s 7-0039-01-017, 7-0039-01-018Y, 7-0039-01-018Z, 7-0039-01-022Y, 7-0039-01-022Z, 7-0039-01-040, 7-0039-01-042, 7-0039-01-043 (120 Pinderpoint Road) for a Specific Development Site Plan to allow a Trailer Yard in a P-I-1 (Planned Industrial) Zoning District

Issue/Item: Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of Northpoint Industrial, LLC., for of PIN #'s 7-0039-01-017, 7-0039-01-018Y, 7-0039-01-018Z, 7-0039-01-022Y, 7-0039-01-022Z, 7-0039-01-040, 7-0039-01-042, 7-0039-01-043 (120 Pinderpoint Road) for a Specific Development Site Plan to allow a Trailer Yard in a P-I-1 (Planned Industrial) Zoning District

Background: The subject property is currently cleared with an existing 9 acre pond. This is part of the Northpoint Industrial Warehouse project that is currently under construction on Pinderpoint Road.

Facts and Findings: The site plan consist of a two (2) separate trailer yards made of milled asphalt paving. Stormwater will be routed to the existing pond and there will be no utilities proposed for this project. This application is under review by City Engineers, T.R. Long Engineering.

Funding: N/A

Recommendation: The Planning Commission will hear this application on Monday, June 14, 2021 at 6:30 PM. **/ UPDATE: THE PLANNING COMMISSION VOTED UNANIMOUSLY TO APPROVE THIS APPLICATION.**

ATTACHMENTS:

- 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Application(PDF)
- 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Stormwater Maint Plan Agreement (PDF)
- 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Timeline (PDF)
- 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (PDF)
- 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - 1st Review Letter TR Long 6.14.21 (PDF)
- Planning Commission Agenda Minutes June 14, 2021 DRAFT (PDF)
- 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (PDF)

210186

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

RECEIVED
MAY 14 2021
BY: KC

Site Plan Review Application

Site Plan Application is required for all new construction in a "P" or "MPO" zone as defined in the Zoning Ordinance of the City of Port Wentworth.

Site Plan Type (*Check One*): ☐ General / Concept ☒ Specific Development

Site Plan Address: 120 PINDERPOINT ROAD

PIN #(s): 70039 01017,01018Y, 01018Z,01022Y,01022Z,01040,01042 AND 01043

Zoning: I-1 Estimated Cost of Construction: $ 1,900,000.00

Type of Construction: TRAILER YARD

Applicant's Name: CHAD ZITTROUER

Mailing Address: P.O.BOX 15179

SAVANNAH, GEORGIA 31416

Phone #: 912-354-8400 Email: CZITTROUER@KERNENGINEERING.COM

Owner's Name (If Different form Applicant): WREN BLALOCK NORTHPOINT INDUSRTIAL, LLC

Mailing Address: 113B HOUSTON STREET

SAVANNAH, GA. 31401

Phone #: 912-443-1578 Email: wblalock@northpoint-re.com

I hereby acknowledge that the above information is true and correct.

Applicant's Signature — Date: 5-14-2021

Owner's Signature (If Different form Applicant) — Date: 5-12-2021

Please see page 2 for required submittal checklist

Updated 4/28/2020

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Application (2455 : Site Plan Review Application (Specific) 120

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

Site Plan Review Application Submittal Checklist

Documentation below is required for a complete submittal.

- ☒ Signed and Completed Application
- ☒ 3 Full size sets of site plan civil drawings or concept plan (depending on type of site plan)
- X ☐ 15 half size (11" X 17") sets of site plan civil drawings or concept plan (depending on type of site plan)
- ☒ 2 copies of hydrology reports (if applicable)
- ☒ Names, mailing address, and PIN number of all property owners within 250 feet of all property lines
- ☐ 1 8 ½" X 11" of site plan civil drawings or concept plan (depending on type of site plan)
- ☒ PDF of entire submittal (either flash drive or CD)
- ☒ Other Engineering details or reports may be required once submittal has been received
- ☒ Site plan review fee check
    - No Land Disturbance- $206.00 Site Plan Fee + $50.00 Admin Fee = Total $256.00
    - With Land Disturbance - $836.00 Site Plan Fee + $50.00 Admin Fee = Total $886.00

Additional Fee Statement: If engineer review cost to the City exceeds the site plan review fee that is paid at the time of initial application submittal, you may be required to pay additional review cost.

I have read and agree to the above additional fee statement

Applicant's Signature

5-14-21
Date

Updated 4/28/2020

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Application (2455 : Site Plan Review Application (Specific) 120

Kern & Co., LLC

Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist

RECEIVED
MAY 14 2021
BY:

May 14, 2021

Mr. Brian Harvey
City of Port Wentworth
305 South Coastal Highway
Port Wentworth, Ga. 31407

Proposed Trailer Yards at
Pinder Point Property
120 Pinderpoint Road
KC File #: 180309.000

Dear Mr. Harvey,

The project consist of two separate trailer yards. The trailer yards will be milled asphalt paving… No utilities are involve in this project. All stormwater will be routed thru an existing pond and discharge to the St. Augustine Creek. No storm detention is proposed since we have direct discharge to the Creek.
If there are any questions, please feel free to contact us.

Respectfully Submitted,

Chad Zittrouer
Kern & Co., LLC

7 Mall Court (31406) ▪ P.O. Box 15179 ▪ Savannah, Georgia 31416 ▪ Phone: (912) 354-8400
319 S. Walnut Street, Suite A ▪ Statesboro, Georgia 30458 ▪ Phone: (912) 225-3373
Fax: (912) 356-1865 ▪ E-mail: info@kernengineering.com ▪ Web: www.kernengi

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Application (2455 : Site Plan Review Application (Specific) 120

Kern & Co., LLC

Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist

NARRATIVE FOR TRAILER YARDS AT PINDERPOINT
120 PINDERPOINT ROAD
PT. WENTWORTH, GEORGIA

The project is located on the northside of Pinderpoint Road. The site is presently cleared with an existing 9 acre pond. Improvements will consist two trailer yards with milled asphalt paving. The first trailer yard area of disturbance is 9.40 acres. The second trailer yard area of disturbance is 11.12 acres Stormwater will be routed to the existing pond and then released to the St. Augustine Creek. No storm detention is proposed since we have direct discharge to the Creek. No utilities are proposed for this project.

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Application (2455 : Site Plan Review Application (Specific) 120

7 Mall Court (31406) ▪ P.O. Box 15179 ▪ Savannah, Georgia 31416 ▪ Phone: (912) 354-8400
319 S. Walnut Street, Suite A ▪ Statesboro, Georgia 30458 ▪ Phone: (912) 225-3373
Fax: (912) 356-1865 ▪ E-mail: info@kernengineering.com ▪ Web: www.kernengin

Adjacent property owners and PIN #

Owner Name: SAVANNAH INDUSTRIAL LLC

PIN: 70039 01039

Address: EXPANSION BLVD.

Owner Name: NORTHPOINT INDUSTRIAL, LLC

PIN: 70039 01035

Address: CROSSROADS EXPANSION

Owner Name: NORTHPOINT INDUSTRIAL, LLC

PIN: 70039 02009

Address: 211 PINDERPOINT ROAD

Owner Name: PINDERPOINT INDUSTRIAL I, LLC

PIN: 70039 02001

Address: 115 PINDERPOINT ROAD

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Application (2455 : Site Plan Review Application (Specific) 120

CITY OF PORT WENTWORTH

(912) 964-4379

REC#: 00313413 5/14/2021 3:17 PM
OPER: ME TERM: 011
REF#: CK 6993

TRAN: 112.0000 BLDG PERMIT
210186 886.00CR
NORTHPOINT INDUSTRIAL
120 PINDERPOINT RD
DEV-SPR 886.00CR

TENDERED: 886.00 CHECK
APPLIED: 886.00-

CHANGE: 0.00

WWW.CITYOFPORTWENTWORTH.COM

Attachment: 120 PINDERPOINT RD

Trailer Yards at Pinderpoint
120 Pinderpoint Road
Stormwater Management Inspection & Maintenance Agreement Plan

-As-built of development plan to be retained by Property Owner for reference.
-The operation and maintenance of the stormwater management system shall remain with the property owner and shall pass to ay successor owner, unless assumed by a governmental agency.
-Legally binding arrangements shall be made regarding the inspection and maintenance of the stormwater management system if portions of the property are transferred.

Routine Monthly Inspections-

1. Visual Inspection for sediment build-up in drainage pipes, drainage swales and within the detention pond area.
2. Surface water ditches and detention pond side slopes will be visually inspected for erosion and gullying
3. The detention pond will be visually inspected for the presence of litter.
4. Inlets culverts, and pipes will be visually inspected to ensure that no obstructions are hindering the performance of the surface water drainage system.
5. Inlets, culverts and pipes will be visually inspected for leaks or structural damage.
6. Check fencing, signage, locks and road/access conditions.
7. Identify trees and/or landscaping which may need to be replaced.

Routine Monthly Maintenance-

1. Grass established during development will require mowing at least twice a month during the months of April – October and monthly during the months of November – March.
2. Any items identified during the monthly routine inspection should be resolved as soon as possible. If immediate attention is not feasible, a corrective action plan should be established.

Routine Annual Inspections-

1. Conduct a thorough inspection of the entire drainage system with as-built in hand to ensure all drainage structures are locatable, in working order and the overall drainage pattern is consistent with the as-built documents.
2. Conduct an inspection of irrigation system to ensure all sprinkler heads are working properly.
3. Check pH level in common area soils to identify the necessary lime or fertilizer applications necessary.
4. Check oxygen & pH level in detention pond to determine if any additives are necessary.

Annual Maintenance-

1. Any items identified in items 1 and 2 of the routine annual inspection.
2. Apply necessary lime and fertilizer applications per findings of items 3 & 4 of the routine annual inspection.

Special Inspection after Major Storm Events-

1. Unscheduled inspections to be conducted after major storm events including heavy rainfall or high wind conditions. Inspections should be conducted with several days after major storm event. Any it which are identified should be repaired as soon as possible.

Northpoint Realty

Wren Blalock DATE: 5-12-21

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Stormwater Maint Plan Agreement (2455 : Site Plan Review

Project Timeline

Specific Site Plan – 120 Pinderpoint Road Trailer Yar

Review assigned to T.R. Long Engineering

- 5/14/2021—Application received- Incomplete.
    - Missing: 15 copies of plan, PDF of Hydro and Site Plan
- 5/14/2021—Sent email to Chad Zittrouer that missing items needed to be received by 5:00 PM on 5/17/2021 or would not be on June 2021 meetings
- 5/17/2021—Received missing information.
- 5/17/2021—Sent Site Plan package to TR Long Engineering for review
- 6/1/2021—Sent follow up email to Trent Long for update on review status.
- 6/14/2021—received 1st comment letter from TR Long Engineering. Forwarded letter to Chad.
- 6/14/2021—Planning Commission voted to unanimously to approve the application during the regularly scheduled meeting.

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Timeline (2455 : Site Plan Review Application (Specific) 120

PROPOSED TRAILER YARD AT
PINDERPOINT PROPERTY

120 PINDERPOINT ROAD
PT. WENTWORTH, GA

KC PROJECT #: 180309.000

APRIL, 2021

GEORGIA REGISTERED No. 32285 PROFESSIONAL ENGINEER 04/14/21 CHRISTOPHER R. ZITTROER

☐ NOT FOR CONSTRUCTION

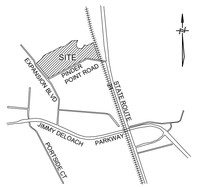
☐ RELEASED FOR CONSTRUCTION

DATE: _____ BY: _____

NRCS REVISION DATE:

LATITUDE 32.1696145
LONGITUDE: −81.1942983

VICINITY MAP:



VICINITY MAP
NOT TO SCALE

PROJECT PREPARED BY:

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

INITIAL APPROVAL BY GOVERNING AGENCY DATE:

REVISIONS

REV NO.	DATE	DESCRIPTION	SHEETS

PROJECT SITE DATA:

SITE DATA:

PROJECT AREA: 40.758 ACRES

AREA OF DISTURBANCE: 20.52 AC

ZONING: I-1

P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043

PROJECT ADDRESS: 120 PINDER POINT ROAD

PROJECT CITY: PORT WENTWORTH

DISTRICT NUMBER: ???

LOT NUMBER: ???

OWNER NAME: NORTHPOINT REALTY

CONTACT: WREN BLALOCK

OWNER ADDRESS: 113B HOUSTON STREET

OWNER CITY: SAVANNAH, GEORGIA 31401

TELEPHONE NO.: 912-443-1578

DATE OF SURVEY: 3-9-2021

GOVERNING AGENCY: CITY OF PORT WENTWORTH

INDEX OF DRAWINGS:

	COVER SHEET	SESC-11	SOIL EROSION & SEDIMENTATION CONTROL DETAILS
N1	GENERAL NOTES	DET-1	SITE DETAILS
EX1	EXISTING CONDITIONS		
EX2	EXISTING CONDITIONS		
SESC-1	INITIAL EROSION PLAN		
SESC-2	INITIAL EROSION PLAN		
C1	STAKING PLAN		
C2	STAKING PLAN		
C3	PAVING, GRADING & DRAINAGE PLAN		
C4	PAVING, GRADING & DRAINAGE PLAN		
SESC-3	INTERMEDIATE EROSION PLAN		
SESC-4	INTERMEDIATE EROSION PLAN		
SESC-5	FINAL EROSION PLAN		
SESC-6	FINAL EROSION PLAN		
SESC-7	EROSION NOTES		
SESC-8	EROSION NOTES		
SESC-9	EROSION NOTES		
SESC-10	SOIL EROSION & SEDIMENTATION CONTROL DETAILS		

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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

SESC NOTES:

1. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING AS TEMPORARY STABILIZATION. ALL PERMANENT GRASS SHALL BE SOD.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
3. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATIVE ON ALL STOCKPILED SOILS.
4. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.
5. CONTRACTOR SHALL PROVIDE 1.5"–3.5" STONE 6" THICK, 50' MIN. LONG BY 20' MIN. WIDE AT ALL CONSTRUCTION EXITS TO MINIMIZE TRANSPORT OF SOIL FROM SITE BY VEHICLE WHEELS.
6. ALL EXISTING INLETS AND DITCHES SUBJECT TO STORM WATER RUNOFF FROM THE SITE AND ALL NEW INLETS SHALL BE PROVIDED WITH HAY BALES SILT CARRIERS TO MINIMIZE SOIL TRANSPORT OFF SITE BY STORM WATERS.
7. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE GOVERNING AGENCY'S, STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS AND THE SPECIFICATIONS, NOTES AND DETAILS ON THESE DRAWINGS.
8. TESTING – COORDINATE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.
9. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.
10. PRIOR TO CONSTRUCTION, ALL BUILDING AREAS, PLUS 10 FEET ON EACH SIDE AND ALL AREAS TO BE PAVED, SHOULD BE STRIPPED OF ALL VEGETATION, TOP SOIL AND ROOT SYSTEMS.
11. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN–OFF OF STORM WATER.
12. ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACK FILLED WITH APPROVED FULL. THE BACK FILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM–D–1557. TO 95% DENSITY IN ACCORDANCE WITH ASTM–D–1557.
13. ANY UTILITIES THAT UNDERLIE THE SITE SHOULD, UNLESS NOTED OTHERWISE, BE RELOCATED AND THE TRENCHES BACK FILLED WITH APPROVED SOIL. THE BACK FILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM–D–1557.
14. THE SUBGRADE SHOULD BE PROOF ROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM DENSITY OF 95% IN ACCORDANCE WITH ASTM–D–1557. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% DENSITY. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THAN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM–D–1557.
15. ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF A CLEAN, FREE DRAINING SAND WITH A MAXIMUM OF 15% FINES. THE FILL SHOULD BE FREE OF OBJECTIONABLE ROOTS, CLAY LUMPS AND DEBRIS.
16. ANY FOOTING EXCAVATIONS THAT ARE DIRECTLY ADJACENT TO THE EXISTING FOUNDATIONS SHOULD BE DONE IN SMALL INCREMENTS TO AVOID UNDERMINING THEM AND CAUSING A LOSS OF SUPPORT TO THE EXISTING STRUCTURE. IF NECESSARY, THE EXCAVATIONS SHOULD BE SHEETED AND BRACED OR THE SOIL IN THE AFFECTED AREA SHOULD BE STABILIZED BY GROUTING.
17. THE FOOTING EXCAVATIONS AND ALL OF THE PREPARED SLAB UPGRADE SHOULD BE MAINTAINED IN A DRY AND COMPACTED CONDITION UNTIL THE CONCRETE IS PLACED. AREAS THAT ARE SOFTENED BY WATER OR BY CONSTRUCTION ACTIVITY BEARING. SHOULD BE REWORKED AND RECOMPUTED TO THE REQUIRED DENSITY AND BEARING.
18. MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.
19. ALL CONSTRUCTION WITHIN THE CITY'S RIGHT–OF–WAY WILL REQUIRE AN ENCROACHMENT PERMIT FROM PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS PERMIT PRIOR TO CONSTRUCTION.
20. ALL CONSTRUCTION SHALL CONFORM TO GOVERNING AGENCY'S TECHNICAL SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS.
21. THE DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHALL CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED; THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT THIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER.
22. SEDIMENTATION BASIN SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND PRIOR TO ANY OTHER SITE WORK.

SITE NOTES:

1. THE GOVERNING AGENCY RESERVES THE RIGHT TO ACCESS PROPERTY FOR ON SITE INSPECTIONS.
2. PROPOSED DETENTION AND/OR SEDIMENTATION POND SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND PRIOR TO ANY OTHER SITE WORK OR BUILDING ERECTION.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED AS DEEMED NECESSARY BY ON SITE INSPECTION.
4. PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF CONTROL STRUCTURE & DETENTION POND UPON COMPLETION OF THE CONTRACT.
5. CONTRACTOR WILL NEED TO OBTAIN A RIGHT OF WAY PERMIT PRIOR TO PERFORMING CONSTRUCTION ACTIVITY IN THE CITY'S/COUNTY'S RIGHT OF WAY.
6. NO TREE MULCHING WITHIN OR ON TOP OF THE DETENTION BASIN.
7. ALL DRAINAGE STRUCTURES GREATER THAN 3 FEET SHOULD HAVE STEPS FOR EASY ACCESS.
8. AS–BUILT SHALL CONTAIN ACCURATE INFORMATION INCLUDING DEPTH, LENGTH, SIZE, SLOPE OF PIPES. ALSO REQUIRED ARE SPOT ELEVATIONS ON THE STORMWATER DETENTION FACILITY, PAVEMENTS TO ENSURE THE SITE GRADING PLAN AND THE CAPACITY OF THE DETENTION FACILITY ARE BUILT ACCORDING TO THE ACCEPTED CONSTRUCTION PLANS. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILTS" PROPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL; SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES. THE DISTANCE OF THE CENTERLINE UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER; AND ANY OTHER REQUIREMENT MADE BY THE GOVERNING AGENCY'S.
9. THE GOVERNING AGENCY MAY RESERVE THE RIGHT TO REQUIRE TELEVISING, PER CITY TELEVISING MANUAL, OF ALL SANITARY SEWER LINES 8" OR LARGER, ALL NEWLY CONSTRUCTED STORMWATER LINES AND STORMWATER LINES WHERE DAMAGE COULD OCCUR DURING CONSTRUCTION.
10. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.
11. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS, AND OBTAINED UTILITY LOCATES AS REQUIRED.
12. CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE–CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT.
13. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.
14. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.
15. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM. NAVD 88.
16. A MINIMUM SHOULDER WIDTH OF 4 FEET WITH A MINIMUM TRANSVERSE SLOPE OF 5% WILL BE PROVIDED ADJACENT TO CURBS AND WALKS. ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.
17. MAXIMUM EARTH SLOPES WILL BE 3:1. GRADE FROM SHOULDER EDGE TO RIGHT– OF–WAY AT 1% MINIMUM.
18. UNSUITABLE SUBGRADE MATERIAL WILL BE DETECTED BY PROOF ROLLING A MINIMUM OF 2 PASSED WITH A MINIMUM TRUCK WEIGHT OF 40 KIPS AFTER ROADWAY HAS BEEN BROUGHT TO APPROXIMATE SUBGRADE ELEVATION, TO BE OBSERVED BY ENGINEER AND GOVERNMENTAL INSPECTOR.
19. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER.
20. SUBGRADE WILL BE COMPACTED FOR A DEPTH OF 24" EXTENDING 24" BEYOND PAVEMENT EDGES, TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY AS MEASURED A.A.S.H.O. METHOD T–99.
21. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKING WILL BE AN ENGINEER APPROVED VEHICULAR TRAFFIC PAINT. (WHITE IN COLOR & 4" WIDE)
22. PROVIDE 1/2" EXPANSION JOINT IN NEW WALKS FOR DEPTH OF CONCRETE, WITH BITUMINOUS SEAL FOR TOP 1 INCH MINIMUM DEPTH AT ABUTMENTS WITH BUILDINGS OR OTHER CONCRETE STRUCTURES.
23. SAW–CUT CONTRACTION JOINTS WILL BE PROVIDED IN ACCORDANCE WITH DETAILS, CUT TO BE 1/4 DEPTH OF CONCRETE MINIMUM.
24. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING, EDGE OF SURFACE COURSE OR BACK OF CURBING.
25. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
26. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
27. SEE BUILDING PLANS FOR EXACT BUILDING DIMENSIONS.
28. ALL UTILITIES WILL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
29. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE.
30. HIGHLY CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORMWATER SYSTEM. IT SHALL BE DISCHARGED INTO THE SANITARY SEWER SYATEM AS PER THE ENGINEER DIRECTION AND THE CITY'S/COUNTY'S INSPECTION DEPARTMENT OBSERVATION.

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STAMP:

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT
PINDERPOINT PROPERTY
FOR
NORTHPOINT REALTY

DRAWING TITLE:

GENERAL NOTES

SCALE:	NTS
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

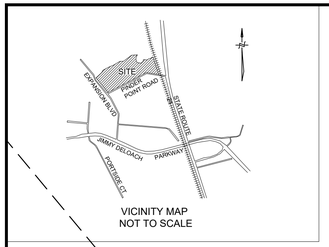
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Mon, 17 May 2021 - 1:10pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



VICINITY MAP
NOT TO SCALE

EXTG 36" CMP
I.E. 1.95
208.78'
N65°53'01"E
271.50'
40' Drainage Easement
Plat Record Book 30P, Pages 11A & 11B
N62°16'19"E
N27°43'41"E
105.35'
352.55'
N87°50'01"E
LATITUDE: 32.1709970°
LATITUDE: 32.1709970
LONGITUDE: -81.1962620
LONGITUDE: -81.1962547
644.57'
S39°39'51"E
SMB 385, PP 100A & 100B
Subdivision Map Book 40S, Pages 70A-D
Drainage/Detention Area 3
Crossroads Expansion
N/F Savannah Industrial LLC
DB 331P, Page 597
PIN: 7-0039-01-035
65' R/W
EXPANSION BOULEVARD
VARIABLE WIDTH RIGHT OF WAY
CROSSROADS EXPANSION
501' SCG Pipeline, Inc.
Natural Gas Transmission Easement
Deed Book 247L, Page 393
90' Southern Natural Gas Easement
Plat Record Book E, Page 177
60' Drainage & Utility Easement
S39°41'05"W
N39°41'05"E
IRS
IRFKC
IRFKC
51.05'
1685.38'
(Tie)
61.33'
N62°16'19"E
720.15'
earthen road
LATITUDE: 32.1696145
LONGITUDE: -81.1942983
Lot 2
Pinder Point Industrial Park
Phase 2
Record Book 5, Page 58
Lot 3
40.758 Acre
Tower
No. 57
100'
165'
UP
265' Savannah Electric and
Power Company Easement
(Pond Area)
EXTG 36" CMP
I.E. 1.95
PINDER POINT ROAD
40.14'
UP
(Pond Area)
Tower
No. 58

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: I-1
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 113B HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

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319 Walnut Street, Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

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GEORGIA
No. 32285
PROFESSIONAL
04/14/21
ENGINEER
CHADWICK R. ZITTROUER

STAMP:

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NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:
EXISTING PLAN

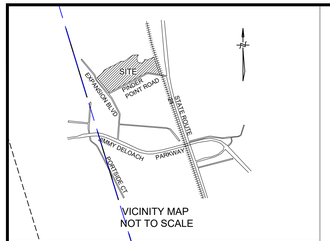
SCALE:	1" = 50'
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO:
EX.1

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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



VICINITY MAP
NOT TO SCALE

CREEK

Location of Augustine Creek taken from Aerial photography and not field surveyed by Kern & Company, LLC.

Thread of Augustine Creek

N86°06'45"E 227.23'
N53°05'58"E 331.37'
N88°39'57"E 144.82'
S33°13'57"W 126.66'
S00°11'23"E 94.00'
S05°23'16"E 98.14'
S79°43'34"E 147.35'
N25°01'28"E 97.58'
N16°06'11"E 99.25'
S79°31'33"E 133.67'
N35°48'02"E 106.91'
L1
L2
L3
S18°28'33"E 360.00'
75' R/W
100' Savannah Electric and Power Company (PRB C PP 253 A-E)
Industrial and Domestic Water Supply (PRB PP 29A-D)
Track Centerline
Track Centerline
CSX TRANSPORTATION, INC.
SEABOARD COASTLINE RAILROAD
150' R/W
Valuation Map V1GA12
IRS
OLD STATE ROUTE 21 / OLD

Lot 3
40.758 Acres

Tower No. 57

UP

(Pond Area)

265' Savannah Electric and Power Company Easement

OHW

100'

165'

S62°19'42"W 399.38'
50.78'
40.14'
448.60'
N81°01'35"W 728.35'
1/2" IRF
1/2" IRF
2.07" 1/2" IRF (Bent)
IRFKC
10113 CMF

LATITUDE: 32.1715913
LONGITUDE: -81.1896821

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: LI
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y, 022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 1136 HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

(Private) 40' R/W

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GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 32285 CHADWICK R. ZITTROUER 04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE: EXISTING PLAN

SCALE: 1" = 50'
PROJECT NO: 180309.000
DATE: 4/14/21
DRAWN BY: CRZ
CHECKED BY: CRZ
SHEET NO: EX.2

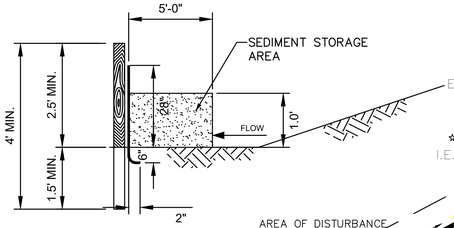
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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



VICINITY MAP
NOT TO SCALE



SEDIMENT STORAGE CALCULATIONS:

DISTURBED AREA = 9.40 AC

REQUIRED STORAGE = 67 CY/AC x 9.40 ACRES DISTURBED AREA
= 6298 CY x 27CF/CY
= 17,004 CF OF REQUIRED STORAGE

PROVIDED STORAGE = 3447 LF OF SILT FENCE x 1.0 FT X 5.0'
= 17,235 CF OF PROVIDED STORAGE

AREA OF DISTURBANCE
9.40 ACRES

40' Drainage Easement
Plat Record Book 30P, Pages 11A & 11B

Lot 3
40.758 Acres

Sd1-NS
SILTFENCE

Tower
No. 57

AREA OF DISTURBANCE
11.12 ACRES
(Pond Area)

Sd1-S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

265' Savannah Electric and
Power Company Easement

EXTG 36" CMP

AREA OF DISTURBANCE
9.40 ACRES

I.E. 1.95

THERE ARE STATE WATERS ON OR
WITHIN 200' OF THIS SITE.

"The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.""

"Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25 feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."

"Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."

"Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit.""

"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

Temporary grass and silt fence (location per Typical Lot Grading and Erosion Control Detail on sheet SESC-7) shall be both installed on each single lot after the road construction is completed. The permanent grass installation cost will be included in subdivision Bond if the permanent grass has not been established to 70% density at the final inspection. If the house will not be constructed within six (6) months after the final, the permanent grass shall be planted

SEDIMENT STORAGE BMPs IN TIMELINE ARE TO BE INSTALLED BEFORE ANY CLEARING AND GRUBBING ACTIVIES NOT ESSENTIAL TO INSTALLATION

NOTES:
PLASTIC SHEETING OR TEMPORARY ROOFS, TO COVER BUILDING MATERIALS,
BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE,AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER

NO CONCRETE WASHDOWN ON SITE.

NO WETLANDS TO BE IMPACTED WITH ASSOCIATED DEVELOPMENT.

NO BUFFER REQUIRED FOR PHASE

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GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft

SMB 38S, PP 100A & 100B

Subdivision Map Book 40S, Pages 70A-D

Drainage/Detention Area 3
Crossroads Expansion

N/F Savannah Industrial LLC
D.B. 331F, Page 597
PIN: 7-0039-01-035

65' R/W

EXPANSION BOULEVARD
VARIABLE WIDTH RIGHT OF WAY
CROSSROADS EXPANSION

50' SCG Pipeline, Inc
Natural Gas Transmission Easement
Deed Book 247L, Page 393

90' Southern Natural Gas Easement
Plat Record Book E, Page 177

60' Drainage & Utility Easement

AREA OF DISTURBANCE
9.40 ACRES

Sd1-S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

AREA OF DISTURBANCE
9.40 ACRES

(Pond Area)

Co

earthen road

LATITUDE: 32.1696145
LONGITUDE: -81.1942983

LATITUDE: 32.1708570
LONGITUDE: -81.1962620
LONGITUDE: -81.1962547

IRS
IRFKC
IRFKC

PINDER POINT ROAD (Private)

UP

Ok
Cc
PI

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: I-1
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 113B HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

Kern & Co., LLC
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Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 13779 (31416) Savannah, Georgia (912) 354-4626
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA REGISTERED
No. 32285
PROFESSIONAL
04/14/21
ENGINEER
CHADWICK R. ZITTROUER

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT
PINDER POINT PROPERTY
FOR
NORTHPOINT REALTY

DRAWING TITLE:
INITIAL
SESC
PLAN

SCALE:	1" = 50'
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

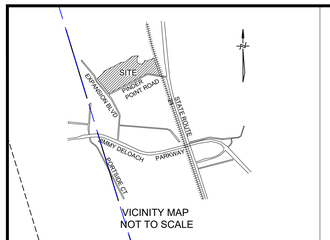
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DATE: BY:

SHEET NO:
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Mon, 17 May 2021 - 1:10pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

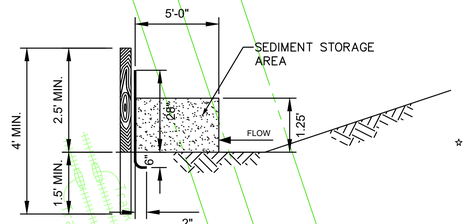


SEDIMENT STORAGE CALCULATIONS:

DISTURBED AREA = 11.12 AC

REQUIRED STORAGE = 67 CY/AC x 11.12 ACRES DISTURBED AREA
= 745 CY x 27CF/CY
= 20116 CF OF REQUIRED STORAGE

PROVIDED STORAGE = 3415 LF OF SILT FENCE x 1.25 FT X 5.0'
= 21344 CF OF PROVIDED STORAGE



Location of Augustine Creek taken from Aerial photography and not field surveyed by Kern & Company, LLC.

Thread of Augustine Creek

AUGUSTINE CREEK

Sd1-S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

AREA OF DISTURBANCE
11.12 ACRES

Sd1-NS
SILTFENCE

Lot 3
40.758 Acres

Tower No. 57

CSX TRANSPORTATION, INC.
SEABOARD COASTLINE RAILROAD
150' R/W
Valuation Map V1GA2

OLD STATE ROUTE 21 / OLD

265' Savannah Electric and Power Company Easement

100' Savannah Electric and Power Company (PBB C PP 253 A-E)

Industrial and Domestic Water Supply (PBB PP 7A-D)

75' R/W

Augustine Creek Centerline

Centerline

UP

10113 CMF

1/2" IRF

1/2" IRF

LATITUDE: 32.1715913
LONGITUDE: -81.1896821

N88°39'57"E 144.82'
N53°00'58"E 331.37'
N86°06'45"E 227.23'
S33°43'50"W 126.66'
S00°12'37"E 96.90'
S05°22'16"E 98.14'
S79°43'34"E 147.35'
N25°01'29"E 93.58'
N16°06'11"E 99.25'
S79°31'33"E 133.67'
N56°48'02"E 106.91'
L1
L2
L3
S18°58'33"E 360.00'
S62°19'42"W 402.14'
N81°01'35"W 448.60'
3.07'
1/2" IRF (Bent)
IRFKC

AREA OF DISTURBANCE (Pond Area)
11.12 ACRES

AREA OF DISTURBANCE
11.12 ACRES

AREA OF DISTURBANCE
11.12 ACRES

Sd1-S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

Sd1-S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

Sd1-NS
SILTFENCE

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: I-1
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y, 022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 1136 HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

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CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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☐ RELEASED FOR CONSTRUCTION
DATE: _____ BY: _____

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319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 32285
CHADWICK R. ZITTROUER
04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:
INITIAL SESC PLAN

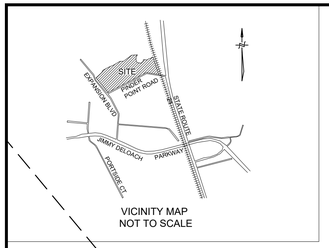
SCALE:	1" = 50'
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO:
SESC2

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Mon, 17 May 2021 - 1:09pm mcrapp
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



VICINITY MAP
NOT TO SCALE

SITE DATA:

PROJECT AREA: 40.758 ACRES

AREA OF DISTURBANCE: 20.52 AC

ZONING: I-1

P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043

PROJECT ADDRESS: 120 PINDER POINT ROAD

PROJECT CITY: PORT WENTWORTH

DISTRICT NUMBER: ???

LOT NUMBER: ???

OWNER NAME: NORTHPOINT REALTY

CONTACT: WREN BLALOCK

OWNER ADDRESS: 113B HOUSTON STREET

OWNER CITY: SAVANNAH, GEORGIA 31401

TELEPHONE NO.: 912-443-1578

DATE OF SURVEY: 3-9-2021

GOVERNING AGENCY: CITY OF PORT WENTWORTH

EXISTING STORM PIPE AS SHOWN

STORM MANHOLE
TOP 7.0
I. E. 1.67

EXTG 36" CMP

I.E. 1.95

208.78'

N66°53'01"E

271.50'

AREA OF DISTURBANCE
9.40 ACRES

40' Drainage Easement
Plat Record Book 30P, Pages 11A & 11B

N62°16'19"E

N27°43'41"E

165.36'

352.55'

N0°56'01"E

LATITUDE: 32.1709970
LONGITUDE: -81.1962620
LONGITUDE: -81.1962547

644.97'

S89°39'51"E

SMB 38S; PP 100A & 100B

Drainage/Detention Area 3
Crossroads Expansion
Subdivision Map Book 105, Pages 10A-D

65' R/W

N/F Savannah Industrial, LLC
D.B. 331F, Page 597
PIN: 7-0039-01-035

EXPANSION BOULEVARD
VARIABLE WIDTH RIGHT OF WAY
CROSSROADS EXPANSION

335'

534'

415'

242'

219'

258'

295'

131'

218'

330 LF 36" RCP AT 0.10%

3' WIDE CONCRETE PAD
FOR LANDING GEAR.
45' FROM BACK OF CURB

EXTG 36" CMP

AREA OF DISTURBANCE
9.40 ACRES

I.E. 1.95

CFES
I. E. 2.00

30' MANAUAL GATE
ELECTRICAL STUB-OUT FOR
GUARD HOUSE BY OTHERS

50' SCG Pipeline, Inc.
Natural Gas Transmission Easement
Deed Book 2471, Page 393

AREA OF DISTURBANCE
9.40 ACRES

90' Southern Natural Gas Easement
Plat Record Book E, Page 177

60' Drainage & Utility Easement

N59°43'06"W

N59°43'06"W

91.97'

720.15'

(Tie)

61.33'

IRS

IRFKC

IRFKC

1865.34'

112.83'
N62°28'37"E

earthen road

LATITUDE: 32.1696145
LONGITUDE: -81.1942983

Lot 2
Pinder Point Industrial Park
Phase 2
Plat Record Book 52, Page 587

CONSTRUCT NEW 2'-0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

AREA OF DISTURBANCE
11.12 ACRES
(Pond Area)

St-Rp
10 SY
5.71 CFS

St-Rp
30 SY
16.19 CFS

Tower
No. 57

UP

OHW

265' Savannah Electric and
Power Company Easement

3' WIDE CONCR
FOR LANDING
45' FROM BAC

Lot 3
40.758 Acre

276'

AREA OF DISTURBANCE
9.40 ACRES

(Pond Area)

PINDER POINT ROAD

Tower
No. 58

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GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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DATE: BY:

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Architects • Landscape Architects • Environmental Scientist
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319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:

GEORGIA
REGISTERED
No. 32285
PROFESSIONAL
04/14/21
ENGINEER
CHADWICK R. ZITTROUER

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:

STAKING PLAN

SCALE:	1" = 50'
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

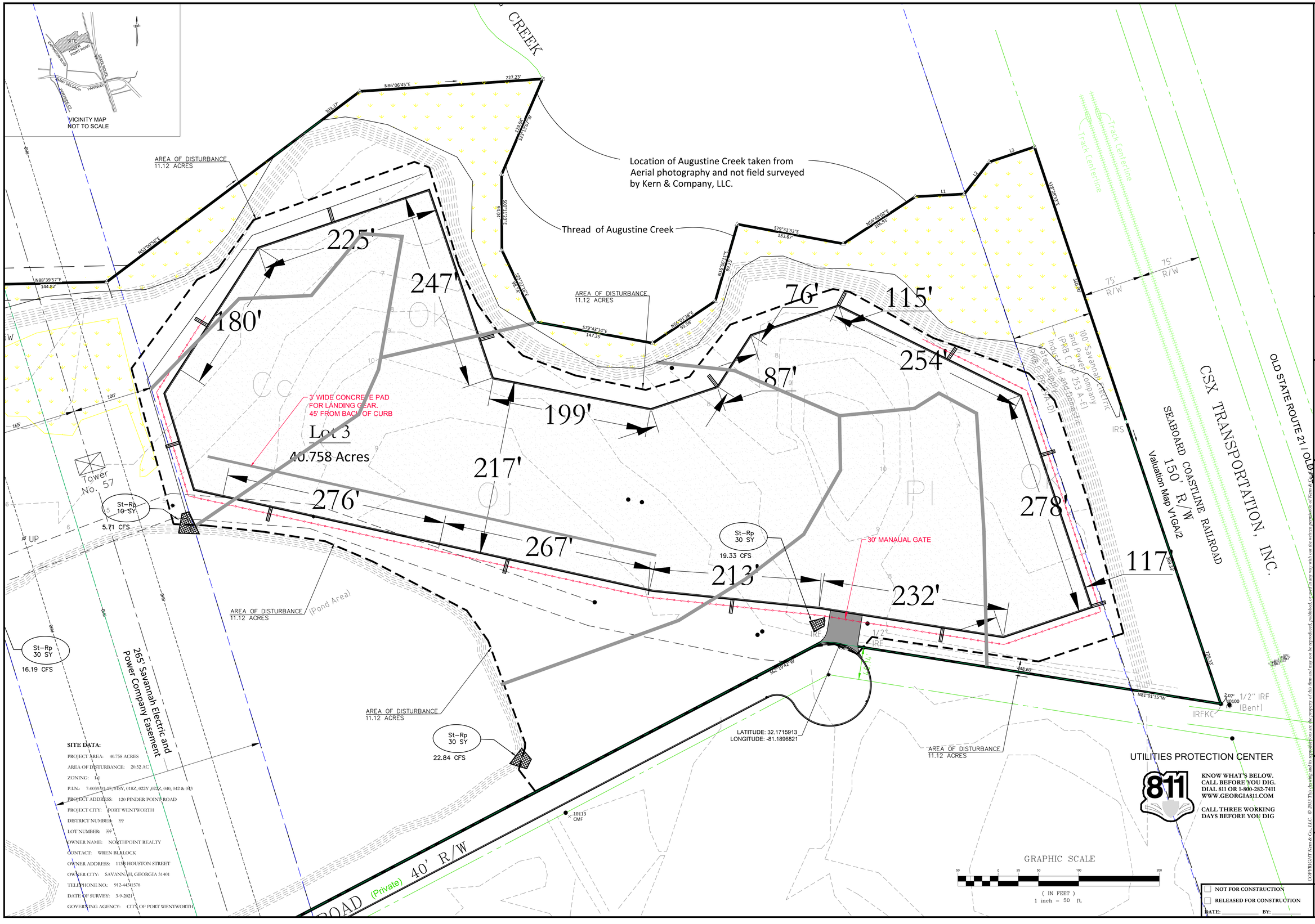
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Mon, 17 May 2021 - 1:10pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: I-G
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BULLOCK
OWNER ADDRESS: 1130 HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

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319 Walnut Street, Suite A, Statesboro, Georgia 30458 (912) 225-5373

STAMP:
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No. 32285
CHADWICK R. ZITTROUER
04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE: STAKING PLAN

SCALE: 1" = 50'
PROJECT NO: 180309.000
DATE: 4/14/21
DRAWN BY: CRZ
CHECKED BY: CRZ
SHEET NO: C2

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Mon, 17 May 2021 - 1:09pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



VICINITY MAP
NOT TO SCALE

CONNECT NEW STORM PIPE TO EXISTING STORM PIPE AS SHOWN

STORM MANHOLE
TOP 7.0
I. E. 1.67

EXTG 36" CMP

I.E. 1.95

N66°53'07"E 271.50'

AREA OF DISTURBANCE
9.40 ACRES

40' Drainage Easement
Plat Record Book 30P, Pages 114 & 118

N52°16'15"E

N37°08'18"E 104.58'

352.55'

330 LF 36" RCP AT 0.10%

3' WIDE CONCRETE PAD FOR LANDING GEAR. 45' FROM BACK OF CURB

CONSTRUCT NEW 2'-0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

Sd1-NS SILTFENCE

Tower No. 57

UP

EXTG 36" CMP

AREA OF DISTURBANCE
9.40 ACRES

I.E. 1.95

CFES
I. E. 2.00

AREA OF DISTURBANCE
11.12 ACRES (Pond Area)

265' Savannah Electric and Power Company Easement

3' WIDE CONCRETE PAD FOR LANDING GEAR. 45' FROM BACK OF CU

Lot 3
40.758 Acres

LATITUDE: 32.1709970
LONGITUDE: -81.1962620
LONGITUDE: -81.1962547

N67°20'01"E

644.97'

S39°39'51"E

SMB 38S, PP 100A & 100B

Drainage/Detention Area 3
Crossroads Expansion
Subdivision Map Book 105, Pages 10A-D

N/F Savannah Industrial LLC
D.B. 331F, Page 597
PIN: 70039 01035

65' R/W

EXPANSION BOULEVARD
VARIABLE WIDTH RIGHT OF WAY
CROSSROADS EXPANSION

50' SCG Pipeline, Inc.
Natural Gas Transmission Easement
Deed Book 247L, Page 393

90' Southern Natural Gas Easement
Plat Record Book E, Page 177

60' Drainage & Utility Easement

N59°41'02"W

N59°39'51"W 30.97'

720.15'

IRS

IRFKC

IRFKC

1685.74'

51.05'

(Tie)

30' MANAUAL GATE ELECTRICAL STUB-OUT FOR GUARD HOUSE BY OTHERS

7 1/4" 3500 PSI CONCRETE WITH FIBERMESH OVER 24" COMPACTED SUBGRADE

AREA OF DISTURBANCE
9.40 ACRES

AREA OF DISTURBANCE
9.40 ACRES

TRANSITION NEW PAVING TO MATCH EXISTING PAVING GRADES AS SHOWN.

LATITUDE: 32.1696145
LONGITUDE: -81.1942983

Earthen road

Lot 2
Pinder Point Industrial Park
Phase 2
Book 52, Page 587

PINDER POINT ROAD (Public)

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GRAPHIC SCALE
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1 inch = 50 ft.

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DATE: BY:

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: I-1
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 113B HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

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STAMP:
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 32285
PROFESSIONAL
04/14/21
CHADWICK R. ZITTROUER

STAMP:

AREA
11.12

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:
PGD PLAN

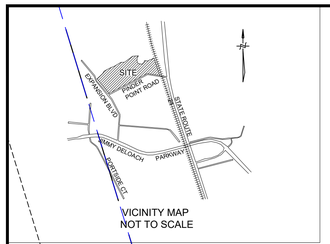
SCALE:	1" = 50'
PROJECT NO:	1803/09.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO:
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Mon, 17 May 2021 - 1:07pm mcrumpa
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



THERE ARE STATE WATERS ON OR WITHIN 200' OF THIS SITE.

CREEK

Location of Augustine Creek taken from Aerial photography and not field surveyed by Kern & Company, LLC.

Thread of Augustine Creek

AREA OF DISTURBANCE
11.12 ACRES

AREA OF DISTURBANCE
11.12 ACRES

AREA OF DISTURBANCE
11.12 ACRES

AREA OF DISTURBANCE
11.12 ACRES

AREA OF DISTURBANCE
11.12 ACRES (Pond Area)

Lot 3
40.758 Acres

3' WIDE CONCRETE PAD FOR LANDING GEAR. 45' FROM BACK OF CURB

30' MANUAL GATE

Tower No. 57

Sd1–NS SILTFENCE

Sd1–NS SILTFENCE

CONSTRUCT NEW 2'–0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

CONSTRUCT NEW 2'–0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

64 L.F. 30" RCP AT 0.30%

7 1/4" 3500 PSI CONCRETE WITH FIBERMESH OVER 24" COMPACTED SUBGRADE

TRANSITION NEW PAVING TO MATCH EXISTING PAVING GRADES AS SHOWN.

CFES I.E.5.91

CFES I.E. 6.10

LATITUDE: 32.1715913
LONGITUDE: -81.1896821

265' Savannah Electric and Power Company Easement

100' Savannah Electric and Power Company Easement (PRB C PP 253 A-E) (PRB C PP 253 A-D) (PRB C PP 253 A-E) Industrial and Domestic

CSX TRANSPORTATION, INC.
SEABOARD COASTLINE RAILROAD
150' R/W
Valuation Map V1GA2

OLD STATE ROUTE 21 / OLD

75' R/W

75' R/W

Track Centerline

Track Centerline

L1 L2 L3

N86°06'45"E 227.23'

N63°00'58"E 301.37'

N88°39'57"E 144.82'

S23°13'57"W 126.66'

S00°01'23"E 94.90'

S65°22'34"E 98.14'

S79°43'34"E 147.35'

N16°06'11"E 99.25'

N25°01'29"E 93.58'

S79°31'33"E 133.67'

N35°48'02"E 106.91'

S18°58'33"E 360.00'

N81°01'35"W 728.35'

448.60'

3.07' 1/2" IRF (Bent)

IRFKC

1/2" IRF

10113 CMF

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: IG
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 1130 HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

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CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

NOT FOR CONSTRUCTION
RELEASED FOR CONSTRUCTION
DATE: _____ BY: _____

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319 Walnut Street State A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 32285 PROFESSIONAL ENGINEER 04/14/21 CHADWICK R. ZITTROUER

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE: PGD PLAN

SCALE: 1" = 50'
PROJECT NO: 180309.000
DATE: 4/14/21
DRAWN BY: CRZ
CHECKED BY: CRZ

SHEET NO: C4

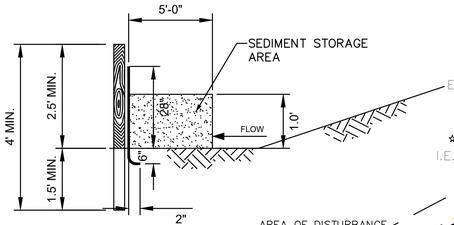
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Mon, 17 May 2021 - 1:09pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwgs\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



VICINITY MAP
NOT TO SCALE



SEDIMENT STORAGE CALCULATIONS:

DISTURBED AREA = 9.40 AC

REQUIRED STORAGE = 67 CY/AC x 9.40 ACRES DISTURBED AREA
= 6298 CY x 27CF/CY
= 17,004 CF OF REQUIRED STORAGE

PROVIDED STORAGE = 3447 LF OF SILT FENCE x 1.0 FT X 5.0'
= 17,235 CF OF PROVIDED STORAGE

CONNECT NEW STORM PIPE TO EXISTING STORM PIPE AS SHOWN

STORM MANHOLE
TOP 7.0
I. E. 1.67

AREA OF DISTURBANCE
9.40 ACRES

40' Drainage Easement
Plat Record Book 30P, Pages 114 & 11B

330 LF 36" RCP AT 0.10%

Ds1, Ds2, Du

EXTG 36" CMP

I.E. 1.95

CFES
I. E. 2.00

AREA OF DISTURBANCE
9.40 ACRES

Sd1–S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

Sd1–NS
SILTFENCE

Tower
No. 57

St–Rp
10 SY
5.71 CFS

CONSTRUCT NEW 2'–0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

St–Rp
30 SY
16.19 CFS

AREA OF DISTURBANCE
11.12 ACRES
(Pond Area)

Sd1–S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

AREA OF DISTURBANCE
11.12 ACRES

265' Savannah Electric and Power Company Easement

Lot 3
40.758 Acres

PINDER POINT ROAD (Private)

AREA OF DISTURBANCE
9.40 ACRES

Sd1–S
DOUBLE ROW
REMOVE SILT
FENCE AFTER FINAL
STABILIZATION

AREA OF DISTURBANCE
9.40 ACRES
(Pond Area)

Temporary grass and silt fence (location per Typical Lot Grading and Erosion Control Detail on sheet SESC 7) shall be both installed on each single lot after the road construction is completed. The permanent grass installation cost will be included in subdivision Bond if the permanent grass has not been established to 70% density at the final inspection. If the house will not be constructed within six (6) months after the final, the permanent grass shall be planted

SEDIMENT STORAGE BMPs IN TIMELINE ARE TO BE INSTALLED BEFORE ANY CLEARING AND GRUBBING ACTIVIES NOT ESSENTIAL TO INSTALLATION

NOTES:
PLASTIC SHEETING OR TEMPORARY ROOFS, TO COVER BUILDING MATERIALS,
BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE,AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER

NO CONCRETE WASHDOWN ON SITE.

THERE ARE STATE WATERS ON OR WITHIN 200' OF THIS SITE.

NO WETLANDS TO BE IMPACTED WITH ASSOCIATED DEVELOPMENT.

NO BUFFER REQUIRED FOR PHASE

"The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."*

"Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25 feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."*

"Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*

"Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*

"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."*

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GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: I-1
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 113B HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

LATITUDE: 32.1709870
LONGITUDE: -81.1962620
LONGITUDE: -81.1962547

LATITUDE: 32.1696145
LONGITUDE: -81.1942983

SMB 38S, PP 100A & 100B

65' R/W

EXPANSION BOULEVARD
VARIABLE WIDTH RIGHT OF WAY
CROSSROADS EXPANSION

Drainage/Detention Area 3
Crossroads Expansion
Subdivision Map Book 105, Pages 10A-D

N/F Savannah Industrial, LLC
D.B. 331F, Page 597
PIN: 7-0039-01-035

50' SCG Pipeline, Inc.
Natural Gas Transmission Easement
Deed Book 247L, Page 393

90' Southern Natural Gas Easement
Plat Record Book E, Page 177

60' Drainage & Utility Easement

earthen road

Lot 2
Industrial
Page 587

Ok
Co
Cc
Ds1, Ds2, Du
Sd1–S
Sd1–NS
Ok
PI

GW
UP
IRS
IRFKC

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 13779 (31416) Savannah, Georgia (912) 354-4480
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-5373

STAMP:
GEORGIA
ACTIVE
No. 32285
PROFESSIONAL
04/14/21
ENGINEER
CHADWICK R. ZITTROUER

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT
PINDER POINT PROPERTY
FOR
NORTHPOINT REALTY

DRAWING TITLE:
INTERMEDIATE SESC PLAN

SCALE: 1" = 50'
PROJECT NO: 180309.000
DATE: 4/14/21
DRAWN BY: CRZ
CHECKED BY: CRZ

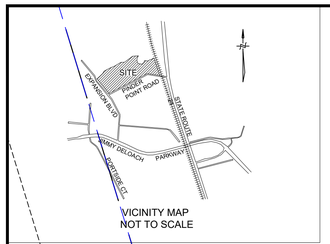
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DATE: BY:

SHEET NO:
SESC3

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Mon, 17 May 2021 - 1:01pm mcrumpp
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

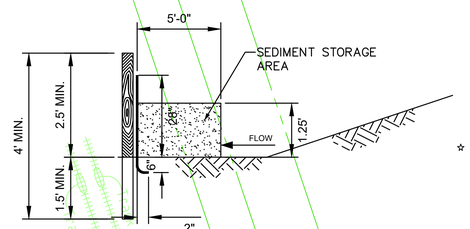


SEDIMENT STORAGE CALCULATIONS:

DISTURBED AREA = 11.12 AC

REQUIRED STORAGE = 67 CY/AC x 11.12 ACRES DISTURBED AREA
= 745 CY x 27CF/CY
= 20116 CF OF REQUIRED STORAGE

PROVIDED STORAGE = 3415 LF OF SILT FENCE x 1.25 FT X 5.0'
= 21344 CF OF PROVIDED STORAGE



Location of Augustine Creek taken from Aerial photography and not field surveyed by Kern & Company, LLC.

Thread of Augustine Creek

AUGUSTINE CREEK

Ds1, Ds2, Du

AREA OF DISTURBANCE
11.12 ACRES

Lot 3
40.758 Acres

Tower No. 57

Sd1–NS SILTFENCE

St–Rp 10 SY
5.71 CFS

St–Rp 30 SY
19.33 CFS

St–Rp 30 SY
16.19 CFS

St–Rp 30 SY
22.84 CFS

CONSTRUCT NEW 2'–0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

AREA OF DISTURBANCE
11.12 ACRES (Pond Area)

265' Savannah Electric and Power Company Easement

100' Savannah Electric and Power Company Easement (PBB C PP 153 A-E) and Industrial and Domestic Water Supply (PBB C PP 153 D)

75' R/W

OLD STATE ROUTE 21 / OLD AUGUSTA ROAD

CSX TRANSPORTATION, INC.
SEABOARD COASTLINE RAILROAD
150' R/W
Valuation Map V1GA2

CFES
I.E. 6.10

CFES
I.E.5.91

64 L.F. 30" RCP
AT 0.30%

LATITUDE: 32.1715913
LONGITUDE: -81.1896821

CONSTRUCT NEW 2'–0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

AREA OF DISTURBANCE
11.12 ACRES

Sd1–NS SILTFENCE

10113 CMF

3.07' 1/2" IRF (Bent)

IRFKC

Ds1, Ds2, Du

40' R/W (Private)

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: LI
P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 1136 HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443-1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

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GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION
DATE: _____ BY: _____

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Architects • Landscape Architects • Environmental Scientist
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319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 32285
CHADWICK R. ZITTROUER
04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:
INTERMEDIATE SESC PLAN

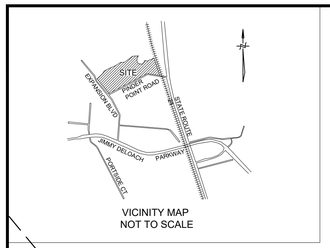
SCALE:	1" = 50'
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO:
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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

Mon, 17 May 2021 - 1:09pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwgs\180309 Trailer Yard Site 3.9.21.dwg



VICINITY MAP
NOT TO SCALE

CONNECT NEW STORM PIPE TO EXISTING STORM PIPE AS SHOWN

STORM MANHOLE
TOP 7.0
I. E. 1.67

EXTG 36" CMP

St–Rp 10 SY
2.20 CFS

St–Rp 10 SY
2.81 CFS

St–Rp 10
9.92 CFS

St–Rp 10 SY
3.46 CFS

St–Rp 10 SY
1.26 CFS

St–Rp 10 SY
5.71 CFS

St–Rp 10 SY
3.84 CFS

St–Rp 30 SY
16.19 CFS

St–Rp 10 SY
2.48 CFS

St–Rp 10 SY
6.83 CFS

St–Rp 10 SY
1.31 CFS

St–Rp 10 SY
4.54 CFS

St–Rp 10 SY
2.714 CFS

AREA OF DISTURBANCE
9.40 ACRES

40' Drainage Easement
Plat Record Book 30P, Pages 114 & 118

330 LF 36" RCP AT 0.10%

Ds1, Ds2, Du

3' WIDE CONCRETE PAD FOR LANDING GEAR. 45' FROM BACK OF CURB

3' WIDE CONCRETE PAD FOR LANDING GEAR. 45' FROM BACK OF CURB

Lot 3
40.758 Acres

CONSTRUCT NEW 2'–0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

AREA OF DISTURBANCE
11.12 ACRES
(Pond Area)

Sd1–NS
SILTFENCE

Tower No. 57

Sd1–S
DOUBLE ROW
REMOVE SILT FENCE AFTER STABILIZATION
AREA
11.12

Sd1–S
DOUBLE ROW
REMOVE SILT FENCE AFTER FINAL STABILIZATION

265' Savannah Electric and Power Company Easement

CFES
I. E. 2.00

I.E. 1.95

LATITUDE: 32.1709970
LONGITUDE: -81.1962620
LONGITUDE: -81.1962547

30' MANAUAL GATE
ELECTRICAL STUB-OUT FOR
GUARD HOUSE BY OTHERS

SMB 38S, PP 100A & 100B

Drainage/Detention Area 3
Crossroads Expansion
Subdivision Map Book 105, Pages 10A-D

N/F Savannah Industrial LLC
D.B. 331F, Page 597
PIN: 70039 01035

65' R/W

EXPANSION BOULEVARD
VARIABLE WIDTH RIGHT OF WAY
CROSSROADS EXPANSION

50' SCG Pipeline, Inc.
Natural Gas Transmission Easement
Deed Book 247L, Page 393

90' Southern Natural Gas Easement
Plat Record Book E, Page 177

60' Drainage & Utility Easement

AREA OF DISTURBANCE
9.40 ACRES

7 1/4" 3500 PSI CONCRETE WITH FIBERMESH OVER 24" COMPACTED SUBGRADE

DOUBLE ROW
REMOVE SILT FENCE AFTER FINAL STABILIZATION

TRANSITION NEW PAVING TO MATCH EXISTING PAVING GRADES AS SHOWN.

LATITUDE: 32.1696145
LONGITUDE: -81.1942983

Lot 2
Pinder Point Industrial Park
Phase 2
Book 52, Page 587

PINDER POINT ROAD (Public)

UP

Ok

Co

Ds1, Ds2, Du

SITE DATA:

PROJECT AREA: 40.758 ACRES

AREA OF DISTURBANCE: 20.52 AC

ZONING: I-1

P.I.N.: 7-0039-01-17, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043

PROJECT ADDRESS: 120 PINDER POINT ROAD

PROJECT CITY: PORT WENTWORTH

DISTRICT NUMBER: ???

LOT NUMBER: ???

OWNER NAME: NORTHPOINT REALTY

CONTACT: WREN BLALOCK

OWNER ADDRESS: 113B HOUSTON STREET

OWNER CITY: SAVANNAH, GEORGIA 31401

TELEPHONE NO.: 912-443-1578

DATE OF SURVEY: 3-9-2021

GOVERNING AGENCY: CITY OF PORT WENTWORTH

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GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

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DATE: BY:

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Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 13779 (31416) Savannah, Georgia (912) 354-4626
319 Walnut Street, Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 32285
PROFESSIONAL
CHADWICK R. ZITTROUER
04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:
FINAL SESC PLAN

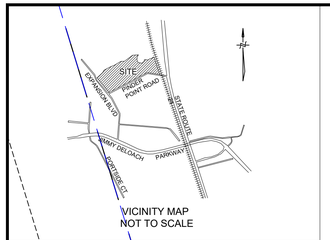
SCALE:	1" = 50'
PROJECT NO:	18039.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO:
SESC5

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Mon, 17 May 2021 - 1:11pm mscarpa
DRAWING PATH: G:\2018\18039.000\dwg\18039 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



VICINITY MAP
NOT TO SCALE

Location of Augustine Creek taken from Aerial photography and not field surveyed by Kern & Company, LLC.

Thread of Augustine Creek

AUGUSTINE CREEK

Sd1-S
DOUBLE ROW REMOVE SILT FENCE AFTER FINAL STABILIZATION
Ds1, Ds2, Du

AREA OF DISTURBANCE
11.12 ACRES

Sd1-NS
SILTFENCE

Lot 3
40.758 Acres

3' WIDE CONCRETE PAD FOR LANDING GEAR. 45' FROM BACK OF CURB

Tower No. 57

265' Savannah Electric and Power Company Easement

100' Savannah Electric and Power Company Easement (PRB C PP 133 A-E) and Industrial and Domestic Water Supply (PRB C PP 133 D)

OLD STATE ROUTE 21 / OLD GUYTON ROAD (Private) 40' R/W

CSX TRANSPORTATION, INC.

150' R/W
SEABOARD COASTLINE RAILROAD
Valuation Map V1GA2

75' R/W

CONSTRUCT NEW 2'-0" WIDE FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES. GRASS BY SEEDING.

64 L.F. 30" RCP AT 0.30%

CFES I.E. 6.10

CFES I.E.5.91

LATITUDE: 32.1715913
LONGITUDE: -81.1896821

7 1/4" 3500 PSI CONCRETE WITH FIBERMESH OVER 24" COMPACTED SUBGRADE

TRANSITION NEW PAVING TO MATCH EXISTING PAVING GRADES AS SHOWN.

30' MANAUAL GATE

St-Rp 10 SY 3.46 CFS
St-Rp 10 SY 2.25 CFS
St-Rp 10 SY 4.21 CFS
St-Rp 10 SY 4.03 CFS
St-Rp 10 SY 1.22 CFS
St-Rp 10 SY 3.09 CFS
St-Rp 10 SY 2.15 CFS
St-Rp 10 SY 1.26 CFS
St-Rp 10 SY 5.71 CFS
St-Rp 10 SY 3.84 CFS
St-Rp 10 SY 3.84 CFS
St-Rp 10 SY 3.51 CFS
St-Rp 10 SY 1.60 CFS
St-Rp 10 SY 3.32 CFS
St-Rp 30 SY 16.19 CFS
St-Rp 30 SY 22.84 CFS
St-Rp 30 SY 19.33 CFS

SITE DATA:

PROJECT AREA: 40.758 ACRES
AREA OF DISTURBANCE: 20.52 AC
ZONING: PI
P.I.N.: 7-0039-01-12, 018Y, 018Z, 022Y ,022Z, 040, 042 & 043
PROJECT ADDRESS: 120 PINDER POINT ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER: ???
OWNER NAME: NORTHPOINT REALTY
CONTACT: WREN BLALOCK
OWNER ADDRESS: 1130 HOUSTON STREET
OWNER CITY: SAVANNAH, GEORGIA 31401
TELEPHONE NO.: 912-443\1578
DATE OF SURVEY: 3-9-2021
GOVERNING AGENCY: CITY OF PORT WENTWORTH

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CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

NOT FOR CONSTRUCTION
RELEASED FOR CONSTRUCTION
DATE: _____ BY: _____

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 13779 (31416) Savannah, Georgia (912) 354-4480
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP: GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 32285 PROFESSIONAL ENGINEER 04/14/21 CHADWICK R. ZITTROUER

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDER POINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE: FINAL SESC PLAN

SCALE:	1" = 50'
PROJECT NO:	PLAN
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO: SESC6

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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

Mon, 17 May 2021 - 1:11pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

EROSION AND SEDIMENTATION CONTROL ACTIVITIES SCHEDULE

TENTAIVE VS. SPECIFIC BEGIN/END DATES	APRIL 2021	MAY 2021	JUNE 2021	JULY 2021	AUGUST 2021	SEPTEMBER 2021
IMPLEMENTATION OF SILT FENCE, SEDIMENT STORAGE & CONSTRUCTION EXIT						
CLEARING, GRUBBING & INSTALL TREE PROTECTION FENCING						
EXCAVATION AND ROUGH GRADING						
CONSTR. OF TEMPORARY & PERMANENT SEDIMENTATION CONTROL & TEMP. GRASSING						
FINISHED GRADING						
PAVING, CONSTRUCTION UTILITIES, ETC.						
REMOVAL OF TEMPORARY SEDIMENTATION CONTROL STRUCTURES						
FINAL STABILIZATION & FINAL GRASSING						
MAINTENANCE OF BMP'S						

NOTE: NO CLEARING AND/OR GRUBBINGACTIVITIES WILL COMMENCE PRIOR TO THE INITIAL PERIMETER & SEDIMENT STORAGE BMP'S ARE IMPLEMENTED UNLESS THOSE ACTIVITIES ARE STRICTLY TO INSTALL SAID BMP'S.

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area	Remarks
	Rate per Acre[1]	Pure Live Speed (PLS) per 1000 sqft			
BAHIA, PENSACOLA *Paspalum notatum*					
alone or with temporary cover	60 lbs	1.4 lbs	P	March - June	166,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will spread
with other perennials	30 lbs	0.7 lb	C	February - May	
BAHIA, WILMINGTON *Paspalum notatum*					
alone or with temporary cover	60 lbs	1.4 lbs	M-L	March - May	
with other perennials	30 lbs	0.7 lb	P	February - May	Same
BERMUDA, COMMON *Cynodon dactylon*					
hulled seed			P	April - May	1,767,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fileds.
alone	10 lbs	0.2 lb	C	April - May	
with other perennials	6 lbs	0.7 lb			
BERMUDA, COMMON *Cynodon dactylon*					
Unhulled seed					
with temporary cover	10 lbs	0.2 lb	P	January - May October - December	Plant with winter annuals
with other perennials	6 lbs	0.3 lb	C	January November - December	Plant with Tall Fescue
BERMUDA SPRINGS *Cynodon dactylon*					
	40 cu ft	0.9 cu ft			A cubic foot contains approximately 650 springs. A bushel contains 1.25 cubic feet or approximately 800 springs.
Coastal, Common, Midland, or Tift 44		or sod plugs 3' x 3'	M-L	April - June	
			P	April - June	
Coastal, Common, of Tift 44			C	March - May	Same as above
Tift 76			C	April - May	Southern Coastal Plain only
CENTIPEDE *Eremochloa Ophuroides*					
	Block sod only		P	January - May November - December	Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in concentrated flow areas; irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far as north Athens and Atlanta.
			C	January - May November - December	
CROWNVETECH *Coronilla varia*					100, seed per pound. Dense growth. Drought tolerant and fire resistant. Attractive rose, pink and white blossoms spring to late fall. Mix with 30 pounds of Tall fescue or 15 pounds of rye. Inoculate see with N inoculant. Use from North Atlanta and Northward.
with winter annuals or cool season grasses	15 lbs	0.3 lb	M-L P	September - October September - October	
FESCUE, TALL *Festuca arundinacea*					227,000 seed per pound. Use alone only on better sites. Mix with perennial lespedeza or Crownvetch Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields.
alone	50 lbs	1.1 lb	M-L	March - April August - October	
with other perennials	30 lbs	0.7 lb	P	August - October	
KUDZU *Pueraria thumbergiana*					Rapid and vigorous growth. Excellent in gully erosion control. Will climb. Good livestock forage.
Plants or crowns	3' - 7' apart		ALL	January - March	
LESPEDEZA SERICEA *Lespedeza cuneata*			M-L	April - May	
			P	March - May	
scarified	60 lbs	1.4 lb	C	February - May	350,000 seed per pound. Widely adapted. Low maintenace. Mix with Weeping lovegrass, Common bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant.
unscarified	75 lbs	1.7 lb	M-L	January - February	
			P	January - February	
			C	January - February	Mix with Tall fesue or winter annuals.
seed - bearing hay	3 tons	1338 lbs	M-L	January - February	
			P	January	Cut when seed mixture is mature, but before, it shatters. Add Tall fescue or winter annuals.
			C	January	
LESPEDEZA Ambro-virgata *Lespedeza virgata DC* or **Appalow** *Lespedeza cuneata* (Dumont) G. Don)					300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban areas. Spreading-type growth. New growth has bronze coloration. Mix with weeping lovegrass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Serisea lespedeza. Slow to develop solid stands. Inoculate seed with EL inoculant.
			M-L	March - May	
scarified	60 lbs	1.4 lb	P	March - May	
			C	February - May	
unscarified	75 lbs	1.7 lb	M-L	January - February	
			P	January - February	
			C		
LESPEDEZA, SHRUB *Lespedeza bicolor* / *Lespedeza thumbergii*					
			M-L	January - March	
			P	January - March	
plants	3' x 3'		C	January - February	Provide wildlife food and cover.
LOVEGRASS, WEEPING *Eragrostis curvula*					
alone	4 lbs	0.1 lb	M-L	March - May	1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Serisea lespedeza on roadbanks.
			P	March - May	
with other perennials	2 lbs	0.05 lb	C	March - May	
MAIDENCANE *Panicum hemitomon*					
sprigs	2' x 3' spacing		ALL	February - April	For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
PANICGRASS, ATLANTIC COASTAL *Panicum amorum var amarulum*					Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Serisea lespedeza except on sand dunes.
			P	March - April	
	20 lbs	0.5 lb	C	March - April	
REED CANARY GRASS *Phalaris arundinacea*					
alone	50 lbs	1.1 lb	M-L	August - October	
with other perennials	30 lbs	0.7 lb	P	August - October	Grows similar to Tall fescue
SUNFLOWER, "ATTIC" MAXIMILLIAN *Helianthus maximiliani*					
			M-L	April - May	227,000 seed per pound. Mix with Weeping lovegrass or other low-growing grasses or legumes.
			P	April - May	
	10 lbs	0.2 lb	C	April - May	

1 Reduce seeding rates by 50% when drilled.
2 PLS is an abbreviation for Pure Live Seed, Refer to Section V.E. of these specifications.
3 M-L represents to Mountain; Blue Ridge; and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents the Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs. See Figure 6-4.1

Table 6-4.1 - Temporary Cover or Companion Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS

Species	Broadcast Rates		Resource Area	Planting Dates by Resource Area	Remarks
	Rate per Acre	Pure Live Speed (PLS) per 1000 sqft			
BARLEY *Hordeum vulgare*					
alone	3 bu. (144 lbs)	3.3 lbs	M-L	August - November	14,000 seed per pound. Winter hardy. Use on productive soils.
in mixture	1/2 bu. (24 lbs)	0.6 lb	P	August - December	
			C	September - December	
LESPEDEZA, ANNUAL *Lespedeza striata*					
					200,000 seed per pound. May volunteer for several years. Use inoculant EL.
alone	40 lbs	0.9 lb	M-L	February - April	
in mixture	10 lbs	0.2 lb	P	February - April	
			C	January - March	
LOVEGRASS, WEEPING *Eragrostis curvula*					
alone	4 lbs	0.1 lb	M-L	March - June	1,500,000 seed per pound. May last for several years. Mix with Serisea lespedeza.
in mixture	2 lbs	0.05 lb	P	March - June	
			C	February - June	
MILLET, BROWNTOP *Panicum fasciculatum*					
					137,000 seed per pound. Quick dense cover. Will provide excessive competion in mixtures if seeded at high rate.
alone	40 lbs	0.9 lb	M-L	April - June	
in mixture	10 lbs	0.2 lb	P	April - July	
			C	April - July	
MILLET, PEARL *Pennisetum glaucum*					
					88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
alone	50 lbs	1.1 lbs	M-L	March - July	
			P	April - August	
			C	April - August	
OATS *Avena sativa*					
					13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
alone	4 bu. (128 lbs)	2.9 lbs	M-L	September - November	
in mixture	1 bu. (32 lbs)	0.7 lb	P	September - November	
			C	September - November	
RYE *Secale cereale*					
					18,000 seed per pound. Quick cover. Drought tolerant and winter hardy.
alone	3 bu. (168 lbs)	3.9 lbs	M-L	July - November	
in mixture	1/2 bu. (28 lbs)	0.6 lb	P	August - December	
			C	January - February September - December	
RYEGRASS, ANNUAL *Lolium temulentum*					
					227,000 seed per pound. Dense cover. Very competitive and is not to be used in mixtures.
alone	40 lbs	0.9 lb	M-L	January - April August - December	
			P	January - April August - December	
			C	January - March August - December	
SUDANGRASS *Sorghum sudanese*					
					55,000 seed per pound. Good on drought-ly sites. Not recommended for mixtures.
alone	60 lbs	1.4 lbs	M-L	April - August	
			P	April - August	
			C	March - July	
TRITICALE *X Triticosecale*					
					Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
alone	3 bu. (144 lbs)	3.3 lbs	C	January, September-October, December	
in mixture	1/2 bu. (24 lbs)	0.6 lb			
WHEAT *Triticum aestivum*					
					15,000 seed per pound. Winter hardy.
alone	3 bu. (180 lbs)	4.1 lbs	M-L	September - December	
in mixture	1/2 bu. (30 lbs)	0.7 lb	P	October - December	
			C	January, October-December	

Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily
Reduce seeding rates by 50 % when drilled.
M-L represents the Mountain; Blue Ridge; and ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs

TABLE 6-5.1. FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	06-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	
	Second	10-10-10	1300 lbs./ac. 3/	
	Maintenance	10-10-10	1100 lbs./ac.	
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	
	Maintenance	0-10-10	700 lbs./ac.	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

COASTAL SWCD
Project Name: PROPOSED TRAILER YARD AT PINDER POINT
Address: 120 PINDER POINT ROAD
City/County: GARDEN CITY, CHATHAM COUNTY, GEORGIA
Date on Plans: 3-18-2021

TO BE SHOWN ON ES&PC PLAN

PAGE #	Y/N		
	Y	1.	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1of the year in which the land-disturbing activity was permitted.(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional.(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
	N/A	3.	Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.*(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)
SESC 9	Y	4.	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
SESC 9	Y	5.	Provide the name, address, email address and phone number of primary permittee.
SESC 1-6	Y	6.	Note total and disturbed acreage of the project or phase under construction.
SESC 1-6	Y	7.	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
COVER	Y	8.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
SESC9	Y	9.	Description of the nature of construction activity.
SESC 1-6	Y	10.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
SESC9	Y	11.	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
SESC8	Y	12.	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC plan as stated on part IV page 19 of the permit.
SESC8	Y	13.	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on part IV pg 19 of the permit.*
SESC8	Y	14.	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."* in accordance with Part IV.A.5 page 25 of the permit.
SESC9	Y	15.	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25 feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
	N/A	16.	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
SESC8	Y	17.	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
SESC8	Y	18.	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
SESC9	Y	19.	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
SESC9	Y	20.	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
SESC9	Y	21.	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
SESC9	N/A	22.	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment."
SESC9	N/A	23.	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
SESC8	Y	24.	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drumat the construction site is prohibited.*
SESC8	Y	25.	Provide BMPs for the remediation of all petroleum spills and leaks.
SESC9	Y	26.	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
SESC9	Y	27.	Description of practices to provide cover for building materials and building products on site.
SESC8	Y	28.	Description of the practices that will be used to reduce the pollutants in storm water discharges.*
SESC8	Y	29.	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

PAGE #	Y/N		
SESC8	Y	30.	Provide complete requirements of inspections and record keeping by the primary permittee.*
SESC8	Y	31.	Provide complete requirements of sampling frequency and reporting of sampling results.*
SESC8	Y	32.	Provide complete details for retention of records as per Part IV.F. of the permit.*
SESC9	Y	33.	Description of analytical methods to be used to collect and analyze the samples from each location.*
SESC9	Y	34.	Appendix B rationale for NTU values at all outfall sampling points where applicable.*
SESC 1-6	Y	35.	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
SESC7	Y	36.	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
SESC 1-6	Y	37.	Graphic scale and north arrow.
SESC 1-6	Y	38.	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2.5 or 10

	N/A	39.	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
	N/A	40.	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 edition*
ALL	Y	41.	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
ALL	Y	42.	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
POST	Y	43.	Delineation and acreage of contributing drainage basins on the project site.
HYDRO	Y	44.	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*
PRE&POST	Y	45.	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
SESC 1-6	Y	46.	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion.Identify/Delineate all storm water discharge points.
SESC 1-6	Y	47.	Soil series for the project site and their delineation.
ALL	Y	48.	The limits of disturbance for each phase of construction.
SESC3&4	Y	49.	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
SESC1-6	Y	50.	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
SESC10&11	Y	51.	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
SESC7,10&11	Y	52.	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2021

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RELEASED FOR CONSTRUCTION
DATE: _____ BY: _____

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mill Court (31406) P.O. Box 15179 (31410) Savannah, Georgia (912) 354-4040
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP: GEORGIA — CHADWICK R. ZITTROUER — No. 32286 — PROFESSIONAL ENGINEER — 04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDERPOINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE: SESC NOTES

SCALE: NTS
PROJECT NO: 180309.000
DATE: 4/14/21
DRAWN BY: CRZ
CHECKED BY: CRZ

SHEET NO: SESC7

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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

Mon, 17 May 2021 - 1:11pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Hazardous Wastes:

All hazardous waste materials will be disposed of in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous waste will be allowed to come in contact with stormwater discharges. If such contact occurs, the stormwater discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

Sanitary Wastes:

A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on the Intermediate Erosion Control Plan Sheet by the contractor once the locations have been determined.
Sanitary Sewer will be provided by Municipal Authority/Septic System at the completion of this project.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

Waste Materials:

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried onsite.

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the contractor will be responsible for seeing that these procedures are followed.
ALL DISCHARGES FROM THIS SITE SHALL BE COMPOSED ENTIRELY OF STORM WATER WITH THE FOLLOWING EXCEPTIONS:

ACCEPTABLE NON-STORM WATER DISCHARGES

Storm water discharge from a construction site or construction activities that is mixed with a storm water discharge from an industrial source or activity other than construction where:

a. the industrial source or activity other than construction is located on the same site as the construction activity and is an integral part of the construction activity;

b. the storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of NPDES Permit No. GAR100001; and

c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring are covered by a different NPDES general permit or individual permit authorizing such discharges and the discharges are in compliance with a different NPDES permit.

d. discharges from fire fighting activities; fire hydrant flushing; potable water sources including water line flushing; irrigation drainage; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials or pollutants.

Spill Cleanup and Control Practices:

– Local, State and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
– Material and equipment necessary for spill cleanup will be kept in the material storage areas. Typical materials and equipment includes, but is not limited to brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust and properly Labeled plastic and metal waste containers.
– Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
– All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State and Federal regulations.
– FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1–800–424–8802.
– FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITH IN 24 HOURS AT 1–800–424–8802.
– FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE EPD WILL BE CONTACTED WITHIN 24 HOURS.
– FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

The contractor shall notify the licensed professional who prepared this plan if more than 1320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. The Contractor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licensed professional.

Product Specific Practices:

Petroleum Based Products – Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on–site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minmize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

Points/Finishes/Solvents – All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

Concrete Truck Washing – NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite.

Fertilizer/Herbicieds – These products will be applied at rates that do not exceed
the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.

Building Materials – No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

INSPECTIONS:

Permittee Requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary the site for the evidence of off–site sediment tracking. These inspections must be conducted until a Notice of Termination has been submitted.
(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non–working Saturday, non–working Sunday and non–working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or any non–working Saturday, non–working Sunday or any non–working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day , whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measure are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible , they shall be inspected to ascertain whether erosion control measure are effective in preventing significant impacts to receiving water(s).
(5). Based on the results of each inspection,the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.
(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5).of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/ or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify an incident, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

5. Maintenance
The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

6. Sampling Requirements
This permit requires the monitoring of nephelometric turbidity in receiving waters or outfalls in accordance with this permit. This section is applicable to primary permittees with a total planned disturbance equal to or greater than one (1) acre and tertiary permittees with a total planned disturbance equal to or greater that five (5) acres. This section is not applicable to secondary permittees. The following procedures constitute EPD's guidelines for sampling turbidity.

a. Sampling Requirements shall include the following:
(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is scale equal to or more detailed that a 1:24000 map showing the location of the site or the stand alone construction: (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) must be hand–drawn on the USGS topographic map from where the storm water(s) enter the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;
(2). A written narrative of site specific analytical methods used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;
(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and
(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the timeline for submittal.

b. Sample Type. All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titles "NPDES Storm Water Sampling Guidance Document, EPA 833–B–92–001" and guidance documents that may be prepared by the EPD.
(1). Sample containers should be labeled prior to collecting samples.
(2). Samples should be well mixed before transferring to a secondary container.
(3). Large mouth, clean and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized, and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed using a direct reading, properly calibrated turbidimeter. Samples are not required to be cooled.
(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. Sampling Points
(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and /or the stormwater outfalls using the following minimum guidelines:
(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving waters may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.
(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e.,the discharge furthest downstream at the site) but upstream of any other storm water discharge not associated with permitted activity. Where appropriate, several downstream samples from across the receiving waters may need to be taken and arithmetic average of the turbidity of these samples used for the downstream turbidity value.
(c) Ideally the samples should be taken from horizontal and vertical center of the receiving waters or the storm water outfall channels.
(d) Care should be taken to avoid stirring the bottom sediments in the receiving waters or in the outfall storm water channel.
(e) The sampling container should be held so that the opening faces upstream.
(f) The samples should be kept free from floating debris.
(g) Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section , stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscape areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and seeding of target crop perennials appropriate for the region).
(h) All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency)as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

d. Sampling Frequency.
(1) The primary permittee must sample in accordance with Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and.or from a monitored outfall within forty–five (45) minutes or as soon as possible..
(2) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittes control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after beginning of the storm water discharge.
(3) Sampling by the permittee shall occur for the following qualifying events:
(a) For each area of the site that discharges to a receiving water or from an outfall, the first rain event reaches or exceeds 0.5 inch with a storm water discharge that allows for sampling during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location.
(b) In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in the permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;
(c) At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed , installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained, or until post–storm event inspections determine that BMPs or properly designed, installed and maintained;
(d) Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6)., or the tertiary permittee, in accordance with Part IV.D.4.c.(6)., must include a written justification in inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and
(e) Existing construction activities , i.e., those that are occurring on or before the effective date of this permit, that must met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.
*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

(7) Non–storm water discharges. Except for flows from fire fighting activities, sources of non–storm water listed in Part III.A.2. of this permit that are combined with stormwater discharge associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for non–storm water components of the discharge.

A. Reporting

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:
a. The rainfall amount, date, exact place and time of sampling or measurements;
b. The name(s) of the certified personnel who performed the sampling and measurements;
c. The date(s) analyses were performed;
d. The time(s) analyses were initiated;
e. The name(s) of the certified personnel who performed the analyses;
f. References and written procedures, when available, for the analytical techniques or methods used;
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU," and
i. Certification statement that sampling as conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of the submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

F. Retention of Records

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all sampling information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit.
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the primary permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at anytime upon written notification to the permittee.

STORMWATER SAMPLING
SAMPLE ANALYSIS

Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833–B–92–001."

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding 50, the value that was selected from Appendix B in Permit No. GAR100001. The NTU is based upon the total site acreage of 10.01–25 acres for the project site, the surface water drainage area of 0–4.99 square miles, and receiving water which supports warm water fisheries.

A discharge of stormwater runoff from disturbed areas where best management practices have not been properly designed, installed and maintained shall constitute a separate violation for each day on which such discharge results in the turbidity of receiving water(s) being increased by more thanten (10) nephelometric tubidty units for waters classified as trout streams or more than twenty–five (25) nephelometric turbidty units for waters supporting warm water fisheries regardless of a permittee's certification under Part II.b.1.i.

An "Erosion & Sedimentation Inspection and Maintenance Report" sheet is attached. Should inspection reveal any deficiencies, a copy of the report shall be sent to:

CLIENT: WREN BLALOCK
NORTHPOINT REALTY
113B HOUSTON STREET
SAVANNAH, GEORGIA 31401
912–443–1577

ATTN: Kern & Co.
7 Mall Court
Savannah, GA 31406
912–354–8400

Governing Agency: Georgia Environmental Protection Division
Coastal District – Brunswick Office
One Conservation Way
Brunswick, GA 31520
1–800–241–4113

The design professional who prepared the ES&PC plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.

DESIGN PROFESSIONAL 7–DAY VISIT CERTIFICATION

DATE OF INSPECTION: _____

I Certify the site was in compliance with the ES&PC Plan on the date of inspection.

_____
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

Inspection revealed the following discrepancies from the ES&PC Plan.

_____

_____

_____

These deficiencies must be addressed within two days and a re–inspection scheduled.
Work shall not proceed on the site until design Professional Certification is obtained.

ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

CHAD ZITTROUER _____ **GSWCC CERTIFICATION # 8150**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

CHAD ZITTROUER _____ **GSWCC CERTIFICATION # 8150**

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION
DATE: _____ BY: _____

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA
CHADWICK R. ZITTROUER
GSWCC LEVEL II CERTIFIED DESIGNER
PROFESSIONAL ENGINEER
GA. NO. 32286
04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT
PINDERPOINT PROPERTY
FOR
NORTHPOINT REALTY

DRAWING TITLE:
SESC NOTES

SCALE:	NTS
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO:
SESC8

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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

Mon, 17 May 2021 - 1:11pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

APPENDIX B

Nephelometric Turbidity Unit (NTU) Tables

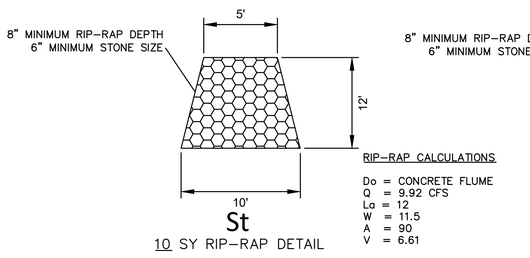
Cold Water (Trout Stream)

Site Size, acres	Surface Water Drainage Area, square miles							
	0–4.99	5–9.99	10–24.99	25–49.99	50–99.99	100–249.99	250–499.99	500+
1.00–10	25	50	75	150	300	500	500	500
10.01–25	25	25	50	75	150	200	500	500
25.01–50	25	25	25	50	75	100	300	500
50.01–100	20	25	25	35	59	75	150	300
100.01+	20	20	25	25	25	50	60	100

Warm Water (Supporting Warm Water Fisheries)

Site Size, acres	Surface Water Drainage Area, square miles							
	0–4.99	5–9.99	10–24.99	25–49.99	50–99.99	100–249.99	250–499.99	500+
1.00–10	75	150	200	400	750	750	750	750
10.01–25	50	100	100	200	300	500	750	750
25.01–50	50	50	100	100	200	300	750	750
50.01–100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

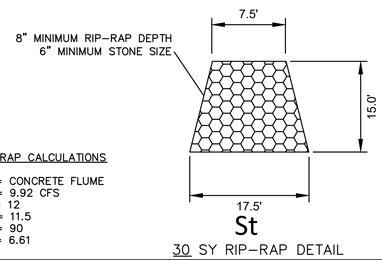
To use these tables, select the size (arces) of the facility or common development. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use.



10 SY RIP-RAP DETAIL

RIP-RAP CALCULATIONS

Do = CONCRETE FLUME
Q = 9.92 CFS
La = 12
W = 11.5
A = 90
V = 6.61



30 SY RIP-RAP DETAIL

RIP-RAP CALCULATIONS

Do = 30" RCP DIAMETER
Q = 22.84 CFS
La = 15'
W = 17.5
A = 4.54
V = A x 0.67 = 3.04

EROSION AND SEDIMENT NARRATIVE NOTES

1. DESCRIPTION: THE PROJECT CONSIST OF THE DEVELOPMENT OF A 20,500 S.F. TRAILER YARD AND STORM DETENTION FACILITY. WETLANDS TO THE NORTH LOCATED ON THE PROPERTY WILL BE PROTECTED AND UNDISTURBED DURING THE CONSTRUCTION PROCESS WITH THE USE OF SILTFENCE.

2. SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION: FOR INFORMATION REGARDING THE SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION PLEASE REFERENCE THE PAVING, GRADING, AND DRAINAGE PLAN, AND THE SOIL EROSION PLAN OF THE CONSTRUCTION DRAWINGS. THE ENTIRE SITE IS COMPOSED OF CAPE FEAR, OCILLA COMPLEX, PELHAM LOAMY SAND AND OGEECHEE LOAMY FINE SAND

3. VEGETATION: THE EXISTING SITE IS CURRENTLY CLEARED.

4. EROSION CONTROL PROGRAM: VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. LAND WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTILLATION OF STORM DRAIN OUTLET PROTECTION DEVICES. CONSTRUCTION EXISTS WILL BE MAINTAINED ON A DAILY BASIS. ALL SEDIMENT CONTROL MEASURES WILL BE INSPECTED WEEKLY AND PROMPTLY CORRECTED IF ANY FAILURES OR MAINTENANCE IS NEEDED.

5. SEDIMENT CONTROL PROGRAM: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF SILT FENCE. A CONSTRUCTION EXIT BE INSTALLED TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE SITE BY VEHICULAR TRAFFIC. RIP RAP WILLL BE PLACEDE AT ALL OUTFALL STRUCTURES.

6. STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7. SAFETY PROTECTION: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.

8. MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE DEVICES WILL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

9. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**

10. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.

11. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

12. **THERE ARE STATE WATERS ON OR WITHIN 200' OF THIS SITE.** NO WRESTED VEGETATION – NO BUFFER REQUIRED.

13. ALL NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AAS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION WITHOUT FIRST ACQUIREING THE NECESSARY VARIANCES AND PERMITS.

14. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:
KERN & CO., LLC
P.O. BOX 15179
SAVANNAH, GA 31416
912.354.8400

15. DEVELOPER/OWNER/PRIMARY PERMITTEE:
NAME: WREN BLALOCK NORTHPOINT REALTY
ADDRESS: 113B HOUSTON STREETE
SAVANNAH, GEORGIA 31401
PHONE #: 912-443-1577
EMAIL ADDRESS: wblalock@northpoint-re.com

16. TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL: SHERRY KERN, KERN & CO., LLC 912-547-8402

17. DRAINAGE FLOWS THROUGH PROPOSED DETENTION POND AND THEN INTO ADJACENT WETLANDS ONTO STATE ROUTE ALL STORMWATER THEN FLOWS MORTH TO ST. AUGUSTINE CREEK AND ON TO THE SAVANNAH RIVER.

18. RUNOFF COEFFICIENT
PRE DEVELOPED: 83
POST DEVELOPED: 92

19. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.**

20. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**

21. ALL GRASSING SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS 1983 EDITION

22. CONTRACTOR SHOULD BE RESPONSIBLE FOR NOTIFYING THE ENGINEER SEVEN DAYS PRIOR TO CONSTRUCTION. IF CONTRACTOR FAILS TO NOTIFY ENGINEER A $1,000.00 FINE SHOULD BE ACCESSED.

23. HYDRAULIC SEEDING SHALL INCLUDE THE SEED, FERTILIZER, & WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER. APPLY IN A SLURRY UNIFORMLY OVER THE AREA AT A RATE OF 500 LBS/ACRE.

24. THE OPERATOR WILL ENSURE THAT ALL MEASURES AND FACILITIES FOR CONTROL OF EROSION AND SEDIMENTATION DURING SITE PREPARATION, OPERATION, AND/OR RECLAMATION ACTIVITIES SHALL ADHERE TO THE FOLLOWING:

25. ALL EROSION AND SEDIMENTATION CONTROL MEASURES OR FACILITIES, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONTINUOUSLY MAINTAINED BY THE OPERATOR, SO AS TO BE EFFECTIVE.

26. SEDIMENT IN SURFACE RUNOFF WATER SHALL BE TRAPPED BY USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS, SEDIMENT BARRIERS OR SIMILAR STRUCTURES.

27. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS POSSIBLE. TEMPORARY VEGETATION AND/OR MULCH SHALL BE EMPLOYED WHERE NECESSARY TO PROTECT EXPOSED CRITICAL AREAS UNTIL PERMANENT VEGETATION OR STABILIZATION IS ATTAINED.

28. NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED WHEREVER FEASIBLE TO PROVIDE FOR NATURAL BUFFER AREAS.

29. DIVERSIONS, DIKES, AND BERMS SHALL BE EMPLOYED TO RETAIN, DIRECT AND CONTROL SURFACE WATER RUNOFF FROM AFFECTED AREAS INTO SEDIMENT CONTROL STRUCTURES.

30. ALL SURFACE WATER DISCHARGES SHALL BE CONTROLLED AND RELEASED AT A NON-EROSIVE VELOCITY ONTO STABILIZED AREAS OR INTO STABILIZED CHANNELS.

31. WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

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Kern & Co., LLC
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Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:

GEORGIA
CHAD K. ZITTROUER
No. 32286
PROFESSIONAL ENGINEER
04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:		
NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDERPOINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:
SESC NOTES

SCALE:	NTS
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

☐ NOT FOR CONSTRUCTION
☒ RELEASED FOR CONSTRUCTION
DATE: 3-18-2021 BY: MDC

SHEET NO:
SESC9

Mon, 17 May 2021 - 1:11pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

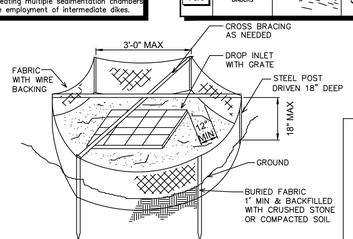
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A traveleay constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.



INLET SEDIMENT TRAP (Sd2-F)

A TEMPORARY PROTECTIVE DEVICE FORMED AROUND A STORM DRAIN DROP INLET TO TRAP SEDIMENT.

THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

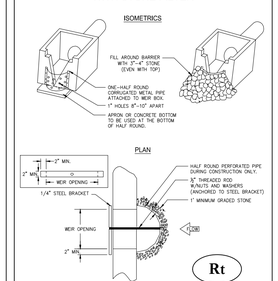
MULCHING MATERIALS:
1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.

2. WOOD WASTE (CHIPS,SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED AND APPLIED AS MULCH. THIS METHOD CAN BE SALVAGED AND REUSED.

3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND REUSED.

Ds1

PERFORATED HALF-ROUND PIPE WITH STONE FILTER

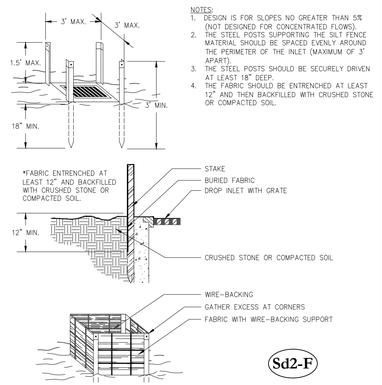


Rt

GoSWCC (Amended – 2013)

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

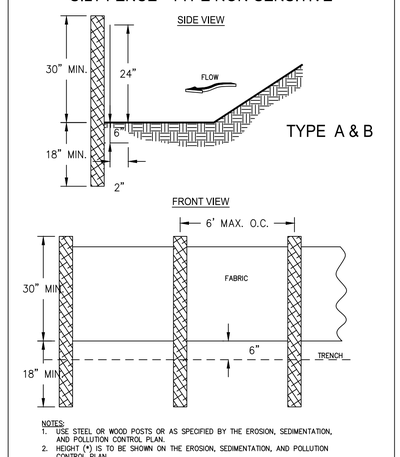
STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

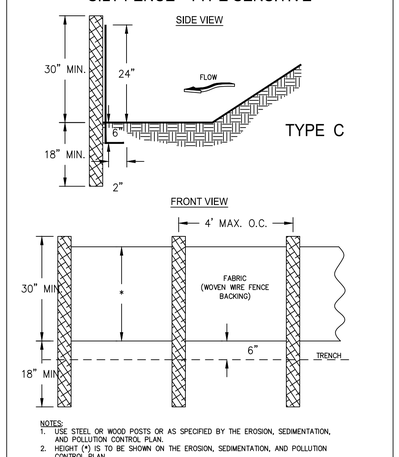
Sd2-F

SILT FENCE - TYPE NON-SENSITIVE



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

SILT FENCE - TYPE SENSITIVE



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

A PERMANENT VEGETATION USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

- BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES OR GRAVEL TYPE SOILS.
- TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DO NOT USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS.
- MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR TABLE 1.

Ds4

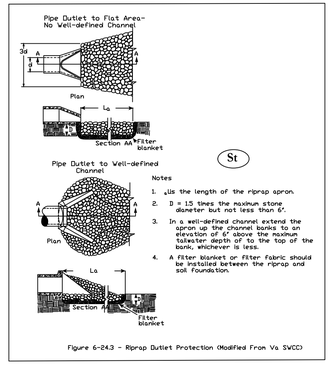
Fertilizer Requirements for soil Surface Application

Fertilizer Type	Fertilizer Type (lbs./acre)	Fertilizer Type (lbs./sq.ft.)	Season
10–10–10	1000	.025	Fall

- AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.
- LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD.
- ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS.
- INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SOIL.
- IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION.
- SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER.
- IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2–3 WEEKS.

SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDAGRASS	COMMON TIFWAY TIFREEN TIFLAWN	M–L,P,C P,C P,C P,C	WARM WEATHER
BAHIAGRASS	PENSACOLA	P,C	WARM WEATHER
CENTIPEDE	---	P,C	WARM WEATHER
ST. AUGUSTINE	COMMON BITTERBLUE RALEIGH	C	WARM WEATHER
ZOYSIA	EMERALD MYER	P,C	WARM WEATHER

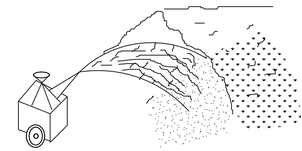


St

Notes
1. ¿Ls the length of the riprap apron.
2. D = 1.5 times the maximum stone diameter but not less than 6".
3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth or to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the riprap and soil foundation.

Figure 6-24.3 – Riprap Outlet Protection (Modified From Va SWCC)

ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED OR DENUDED AREAS.



ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

- SITE PREPARATION
  - –GRADING AND SHAPING
  - –SEEDBED PREPARATION
  - –APPLY LIME AND FERTILIZER AS DETERMINED BY SOIL TEST
  - –PLANT SEEDING, SELECT SPECIES BY SEASON AND REGION
  - –APPLY MULCHING MATERIAL IF NEEDED
  - –IRRIGATE IF NEEDED BUT NOT AT RATE TO CAUSE EROSION

*PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT OR COASTAL)

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

SEEDING RATES FOR TEMPORARY SEEDINGS

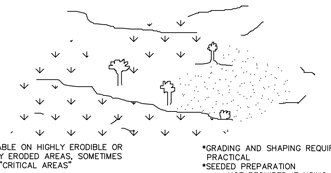
SPECIES	RATE PER 1,0000 SQ. FT.	RATE PER ACRES¶	PLANTING DATES◊ MTS–L'STONE	PIEDMONT	COASTAL
RYEGRASS	0.9 POUNDS	40–50 LBS.	8/1–12/1	8/15–1/1	8/15–3/1
ANNUAL LESPEDEZA	0.9 POUNDS	40 LBS.	3/1–4/1	3/1–4/1	2/1–3/1
WEEPING LOVEGRASS	0.1 POUNDS	4–6 LBS.	3/15–8/1	3/1–8/15	2/15–8/15

* ALL SEEDING NUMBERS ARE ALONE FOR MIXTURE NUMBER SEE MANUAL FOR EROSION AND SEDIMENT TABLE 6–24.1 PAGES 6–134 – 6–136.

¶ UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
◊ SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

Ds3

ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA.
- –TO STABILIZE THE SOIL
- –TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS
- –TO IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES



*APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS"

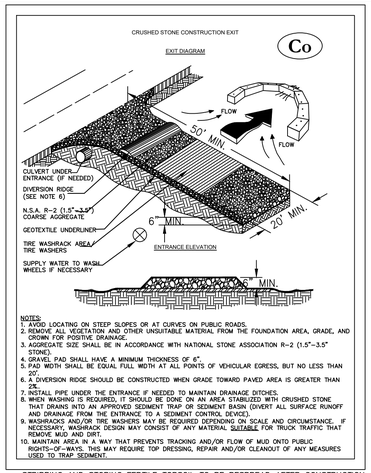
INCLUDING:
- –CUT OR FILL SLOPES
- –EARTH SPILLWAYS
- –BORROW AREAS
- –CHANNEL BANKS
- –BERMS
- –ROADSIDES
- –SPOILS AREAS
- –GULLIED LANDS

*GRADING AND SHAPING REQUIRED WHERE FEASIBLE PRACTICAL
*SEEDED PREPARATION
- –NOT REQUIRED IF USING HYDRAULIC SEEDING AND FERTILIZING
- –WHEN REQUIRED:

SLOPE	SEEDBED
3:1 OR FLATTER	≥ 4" DEEP
2:1 TO 3:1	1" TO 4" DEEP
2:1 OR STEEPER	DEPRESSION EVERY 6"–8" WITH HAND TOOL

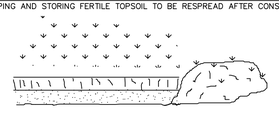
*HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE
*MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM OF SPILLWAYS AND ON ROAD BANKS
*ANCHOR MULCH IMMEDIATELY

DISTURBED AREA STABILIZATION (With Permanent Vegetation)



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R–2 (1.5"–3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

STRIPPING AND STORING FERTILE TOPSOIL TO BE RESPREAD AFTER CONSTRUCTION.

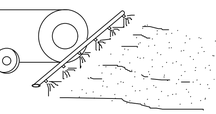


*RECOMMENDED FOR SIDE 2:1 OR FLATTER SLOPES
*TOPSOIL SHOULD BE TESTED TO JUSTIFY STRIPPING
- –pH 5.0 TO 7.5
- –SOLUABLE SALTS ≤ 500 ppm

*STICKPILE SHOULD NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF–SITE ENVIRONMENTAL DAMAGE
*RECOMMEND RESPREADING 5" DEEP

Tp TOPSOILING

CONTROLLING DUST AT THE SITE



*TEMPORARY METHODS:
- –MULCHES
- –TEMPORARY VEGETATIVE COVER
- –SPRAY ON ADHESIVES
- –TELLAGE
- –IRRIGATION
- –BARRIERS
- –CALCIUM CHLORIDE

*PERMANENT METHODS
- –PERMANENT VEGETATION
- –TOPSOILING
- –STONE COVER

*CHEMICAL CONTROL

ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIONIC ASPHALT EMULSION	7:1	SPRAY	1,200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN–IN–WATER EMULSION	4:1	FINE SPRAY	300

Du DUST CONTROL ON DISTURBED AREAS

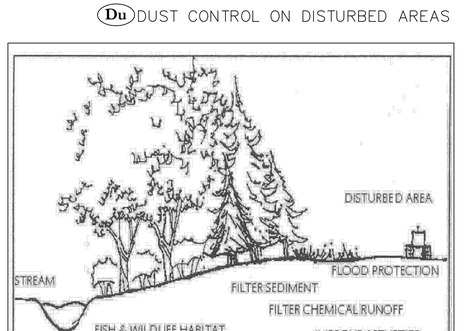


Figure 1. Some benefits of a riparian buffer.

Bf BUFFER ZONE

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

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7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA CERTIFICATE OF AUTHORIZATION NO. LSF 002286 PROFESSIONAL ENGINEER 04/14/21 CHADWICK R. ZITTROUER

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDERPOINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE: SESC DETAILS

SCALE:	NTS
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

☐ NOT FOR CONSTRUCTION
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DATE: 3–18–2021 BY: MDC

SHEET NO: SESC10

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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

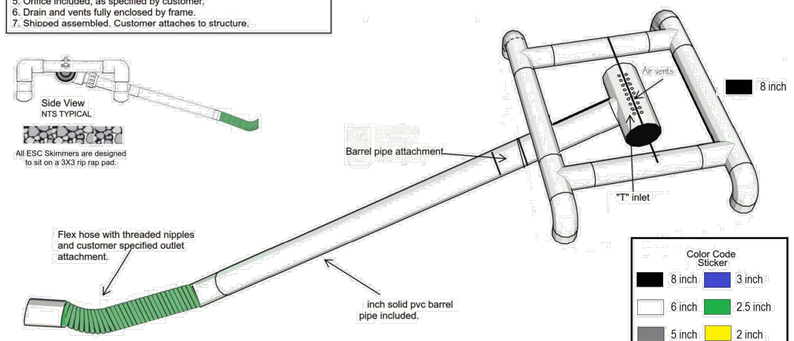
Mon, 17 May 2021 - 1:11pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

8 inch ESC Skimmer / Sediment Pond Surface Drain

NTS TYPICAL DRAWING

Draw down Chart	
24 hour draw down	104025 cf
48 hour draw down	204050 cf
72 hour draw down	312075 cf

1. Solid barrel pipe included.
2. Union separates for installation of provided orifice.
3. Flex hose provided with customer specified outlet structure connection.
4. Skimmer / Surface drain. cubic feet per day.
5. Orifice included, as specified by customer.
6. Drain and vents fully enclosed by frame.
7. Shipped assembled. Customer attaches to structure.



1-24-2018 (updated)
Erosion Supply Company
www.escskimmer.com

Sk

TO BE SHOWN ON THE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN

WHEN A FLOATING SURFACE SKIMMER IS USED, SHOW THE FOLLOWING INFORMATION ALONG WITH SEDIMENT POND, TRAP OR BASIN BEING USED ON SITE

1. POND, TRAP OR BASIN SIZE, LENGTH* (TOP AND BOTTOM) AND DEPTH = 162,450 C.F. 29,035 + 43,690 / 2 X 4 =145,450 C.F.
2. TIME TO DRAIN (HRS) = 72
3. SKIMMER DIMENSIONS (ORFICE AND HEAD SIZE)** = 8"
4. MANUFACTURER'S NAME: EROSION SUPPLY COMPANY (ESC)
   8817 MIDWAY WEST ROAD
   RALEIGH, NC 27617
   919-787-0334

* FEET, **INCHES

11/12/2020 Skimmer Sizing

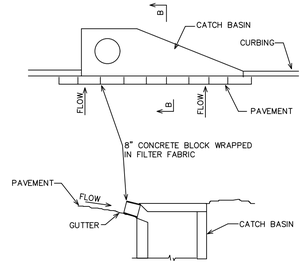
Reset

Skimmer Sizing

Sizing calculator	Enter Volume Below	ESC Skimmers	Enter Hours to Drain	Calculate	Fax to:919-787-0335
	162450		72	CF Required / Hour	2256
Skimmer Size	8 Inch	Area of outlet pipe	28.26	CF/Hour Per inch	153.37
Flow / CF Required hour	2256	Orifice Size inches	4.33	Retail Price	$3,500.00

Skimmer Size (inches)	outlet	CF Per 24 Hour	Area of outlet pipe	CF/ inch area Per Hr.	CF hour flow
1.5 inch	1.5	1801	1.77	42.49	75.04
2.0 inch	2.0	4019	3.14	53.33	167.46
2.5 inch	2.5	6543	4.91	55.57	272.63
3.0 inch	3.0	8323	7.07	49.09	346.79
4.0 inch	4.0	16758	12.56	55.59	698.25
5.0 inch	5.0	38488	19.63	81.72	1603.67
6.0 inch	5.0	42763	19.63	90.79	1781.79
8.0 inch					

www.erosionsupply.com/Calculator/Skimmer Sizing Excel/Sizing.htm 1/2

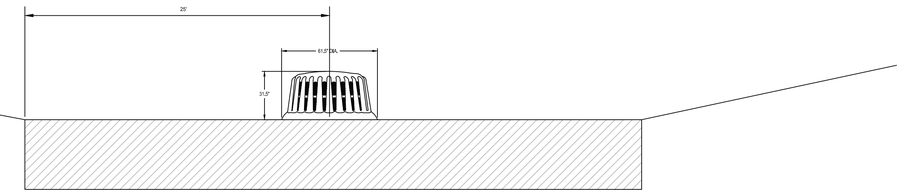


SECTION B-B

NOTE: Install filter after any asphalt pavement installation.

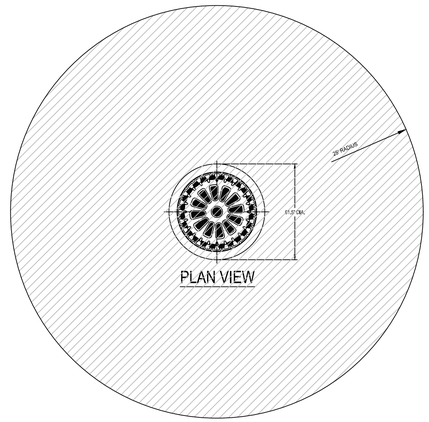
CURB INLET FILTER
"PIGS IN BLANKET"

Sd2-P



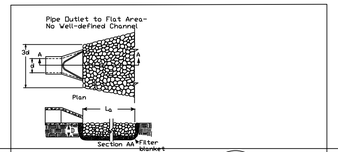
ELEVATION VIEW

SEDIMENT STORAGE PER BASIN = 25' RADIUS
VOLUME = 1963 CF / FT.



PLAN VIEW

SILT SAVER SEDIMENT STORAGE



St

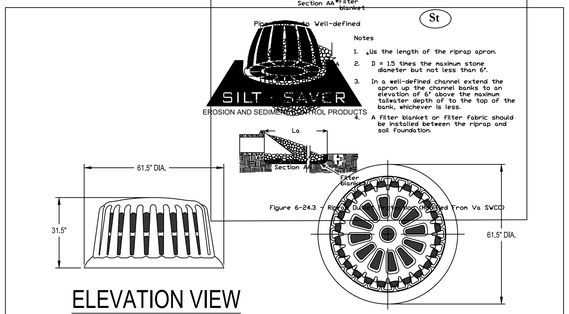


Figure 6-24.3 / Riprap Outlet Protection Adapted From Va SWCD

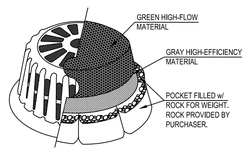
ELEVATION VIEW

PLAN VIEW

FILTER OPTIONS
FILTER IS AVAILABLE IN TWO OPTIONS:
1) ALL HIGH-FLOW FILTER
2) HIGH-FLOW MATERIAL ON TOP HALF, HIGH-EFFICIENCY MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED FOR ALL ROADWAY PROJECTS.) (DOT FILTER)
IT IS THE PURCHASERS RESPONSIBILITY TO PURCHASE APPROPRIATE FILTER. PURCHASER SHALL PROVIDE ROCK FOR FILTER POCKETS.

FILTER INSTALLATION
FILTER SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER FRAME IN PLACE OVER STORM STRUCTURE, ROCK POCKETS ARE SEWN DIRECTLY INTO FILTER. EVERY FILTER COMES IN ONE PIECE FOR EASY INSTALLATION.

MAINTENANCE
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT FRAME AND FILTER DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.



ISOMETRIC VIEW
SHOWN WITH DOT FILTER

REPLACEMENT FILTERS: MODEL # R-140HF OR R-340 DOT

ROUND FRAME & FILTER ASSEMBLY
Model # R-100A AKA "SS-100A (Round)"
60" DIAMETER

FRAME MATERIAL:	BLACK 0.25" HMWPE
FILTER FABRIC MATERIAL:	REFER TO SPEC
SCALE:	NOT TO SCALE
LAST UPDATED:	AUGUST 2019

SILT-SAVER, INC. 1200 FORRESTER CEMETERY RD, COVINGTON, GA 30014 PHONE: (770) 388-7818 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.siltsaver.com

Sd2-F-SS

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319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:
GEORGIA
CHAD WICKER ZITTROUER
No. GSC2286
PROFESSIONAL ENGINEER
04/14/21

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT
PINDERPOINT PROPERTY
FOR
NORTHPOINT REALTY

DRAWING TITLE:
SESC DETAILS

SCALE:	NTS
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

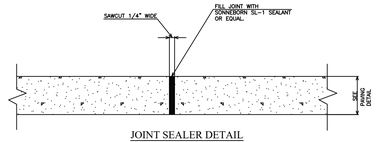
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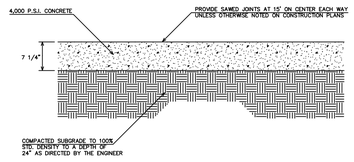
SHEET NO:
SESC11

Mon, 17 May 2021 - 1:11pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

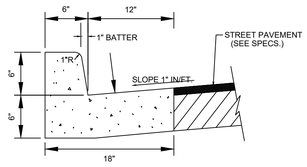
Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)



JOINT SEALER DETAIL

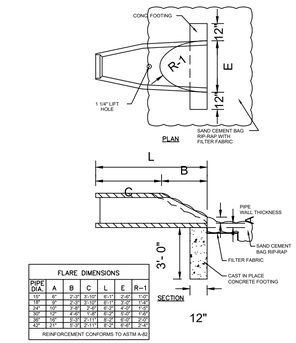


P-19 CONCRETE PAVEMENT



NORMAL GUTTER

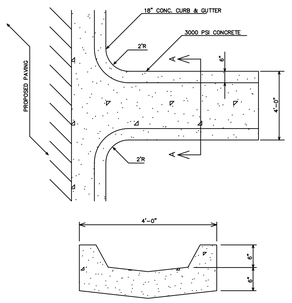
P-3 18" CURB AND GUTTER



FLARE DIMENSIONS						
PIPE DIA	A	B	C	L	E	R-1
15"	6"	2'-0"	2'-10"	6'-1"	2'-6"	1'-0"
18"	6"	2'-0"	2'-10"	6'-1"	2'-6"	1'-3"
24"	10"	2'-0"	3'-2"	6'-1"	2'-6"	1'-6"
30"	10"	2'-6"	3'-8"	6'-2"	2'-6"	1'-9"
36"	10"	3'-0"	4'-1"	6'-2"	2'-6"	2'-0"
42"	12"	3'-6"	4'-11"	6'-3"	2'-6"	2'-3"

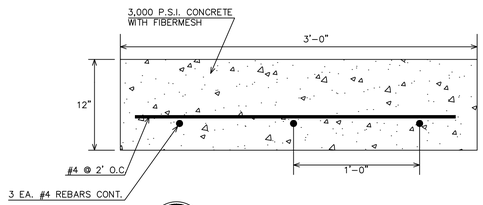
REINFORCEMENT CONFORMS TO ASTM A-82

D-16 FLARED END SECTION DETAIL

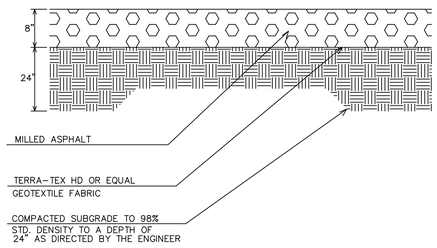


SECTION A–A

D-21 CONCRETE FLUME



P-66 CONCRETE PAD TRAILER LANDING GEAR



P-20 MILLED ASPHALT PAVEMENT

UTILITIES PROTECTION CENTER

811

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319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

STAMP:

GEORGIA
CERTIFICATE OF AUTHORIZATION
No. LE-002285
PROFESSIONAL
04/14/21
ENGINEER
CHADWICK R. ZITTROUER

STAMP:

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PROPOSED TRAILER YARD AT PINDERPOINT PROPERTY FOR NORTHPOINT REALTY

DRAWING TITLE:

DETAILS

SCALE:	NTS
PROJECT NO:	180309.000
DATE:	4/14/21
DRAWN BY:	CRZ
CHECKED BY:	CRZ

SHEET NO:

DET.1

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DATE: _____ BY: _____

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Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Site Plan 4.14.21 (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road Trailer Yard)

Mon, 17 May 2021 - 1:11pm mcrapps
DRAWING PATH: G:\2018\180309.000\dwg\180309 Trailer Yard Site 3.9.21.dwg

114 North Commerce Street
Hinesville, Georgia 31313
Office: (912) 368-5664
Fax: (912) 368-7206

TR LONG ENGINEERING, P.C.

308 Commercial Drive
Savannah, Georgia 31406
Office: (912) 335-1046
Fax: (912) 355-1642

June 14, 2021

Mr. Brian Harvey
City of Port Wentworth
7224 Georgia Highway 21
Port Wentworth, Georgia 31407

Re: 120 Pinder Point Road
Trailer Yard
Port Wentworth, Georgia

Dear Mr. Harvey,

T. R. Long Engineering, P.C. has reviewed the specific development plans entitled "Proposed Trailer Yard at Pinder Point Property," prepared by Kern & Co., LLC dated April 2021. We offer the following comments regarding this assessment:

1. On sheets EX.1 and EX.2 there appears to be steep contours around the north, west, and east boundaries which are not connected to the site topography and are not labeled. Please identify these lines. If they are contours, be sure they are correct, that they tie to the site contours, and that they are labeled.
2. On sheets EX.1 and EX.2 there are similar lines around the pond. The site contours do not appear to connect to the lines around the pond. Please show the contours around the pond correctly.
3. On sheets EX.1 and EX.2 please show all pipes and structures entering and leaving the pond. Also include any curbing that is discharging into the pond.
4. On sheets EX.1 and EX.2 the existing home sites with houses and driveways and the like are not shown. Please show these features.
5. On sheets EX.1 and EX.2 only the existing easements have been shown. Please show all utilities that are existing or have recently been installed.
6. Please show the marsh line delineation and label it. Also please provide the documentation from Coastal Resources for the approval of the location of the marsh line.
7. Indicate if there are any wetlands on the site. If there are no wetlands, please provide documentation from the Corps of Engineers or a qualified wetland consultant stating such.
8. Please identify whether or not there is a ditch between the two 36" CMP pipes on the western side of the power line.
9. Please include state plane coordinates on at least two corners.
10. Please include a benchmark on the plan and indicate the datum used.
11. Please include a line table for the boundary lines that are labeled with tag labels.
12. The plan presentation includes multiple areas where there are lines across text and text over text. Please present the plans in a manner that eliminates lines over text and text over text. This will aid in plan review and avoid confusion during construction.
13. Please add a 25' buffer along the marsh line and add a double row of silt fence (sensitive) along the buffer.

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - 1st Review Letter TR Long 6.14.21 (2455 : Site Plan Review

14. The limits of disturbance and fill operations show areas that could be jurisdictional marsh lands. These are the areas that are below the elevation of 5.6 MSL as shown on the plan. Please either remove any development from these areas or provide documentation that these areas are not jurisdictional marsh lands.
15. The initial erosion control sheets show that sediment storage has been calculated and shows the amount provided. However, the location of the sediment basins or storage location is not shown. Please update these plans to show the sediment storage. The amount of sediment storage shown cannot be stored behind the silt fence. Please show sediment storage outside of the existing lake.
16. The staking plan shows distances along the perimeter. Please include all necessary layout information. The site cannot be laid out with perimeter distances only.
17. There appears to be a pipe that will connect to an existing 36" CMP as shown on sheet C1. The invert in is lower than the outlet elevation. Please revise the pipe inverts accordingly.
18. Please show proposed contours from the back of curb to the existing ground on all sides and along entrance roads. Please show contours for drainage from the end of the flumes to the final discharge point. Please show proposed contours for the drainage channels around the site.
19. Discharging from the proposed site to areas that drain directly to the marsh is not consistent with the city development requirements. Please ensure that all areas drain through the appropriate water quality facilities.
20. Provide the stormwater quality calculations.
21. Several of the flumes appear to extend beyond the drainage channel. Please adjust the drainage channel to accommodate the discharge from the flume.
22. Please adjust the plan so that drainage pipes daylight into the pond slope and do not extend into the pond.
23. Please consider adding spot elevations for the landing gear concrete pad.
24. There appears to be a flume missing on the western most parking area located approximately 100-feet from the northwestern most corner. Please update the plan accordingly.
25. There appears to be a flume missing along the western parking entrance road approximately 190-feet from Pinder Point Road.
26. Please add proposed grades at the Pinder Point Road intersection.
27. Please adjust the site so that the proposed fence does not fall into the centerline of the drainage channel along the perimeter of the eastern parking area.
28. Please modify plans to reduce the amount of line over text and text over text.
29. The final erosion and sediment control plan shows some flumes having rip rap and some not having rip rap. However, all flumes have a label calling for rip rap. Please add linework to identify he rip rap.
30. The drainage calculations show a predevelopment CN of 84. The area was wooded in 2019. The wooded area is a more reasonable predevelopment condition the CN for a wooded area in fair condition is 79. Please adjust the drainage calculations accordingly.
31. Please justify the predevelopment time of concentration value of 60 minutes.
32. Please identify the normal water surface elevation of the existing pond from survey data. The plan shows a pipe invert of 1.95 feet. The drainage calculations show an elevation of 2 feet. In either case that would most likely make this pond under the influence of the tidal waters and would subsequently require additional permitting from the Corps of Engineers and Coastal Resources. Please verify the water surface elevation.
33. All post-development calculations should be based on design elevations and not assumed elevations. Please revise the calculations with design elevations and remove references to assumed data.

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - 1st Review Letter TR Long 6.14.21 (2455 : Site Plan Review

34. The predevelopment site flows partially into the marsh and partially into the existing pond. Please revise the predevelopment basin areas.
35. Please route the appropriate predevelopment flows through the exiting pond. The drainage calculations show that there is less flow from the pond in post development conditions when the basin area and impervious area are both increased. This is not the case. Please provide valid drainage calculations.

Should you have any questions, comments or need additional information please contact us.

Sincerely,

Trent R. Long, P.E.

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - 1st Review Letter TR Long 6.14.21 (2455 : Site Plan Review

CITY OF PORT WENTWORTH

PLANNING COMMISSION

JUNE 14, 2021

Council Meeting Room | **Regular Meeting** | **6:30 PM**

7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

1. CALL MEETING TO ORDER

Chairman CJ Neesmith called the meeting to order.

2. PRAYER AND PLEDGE OF ALLEGIANCE

Commissioner Herrin led the Prayer and Pledge of Allegiance

3. ROLL CALL - SECRETARY

Attendee Name	Title	Status	Arrived
Bill Herrin	Planning Commissioner	Present	
Rufus Bright	Planning Commissioner	Absent	
Rosetta Franklin	Planning Commissioner	Present	
Wanda Rollf	Planning Commissioner	Present	
Lauree Morris	Planning Commissioner	Absent	
CJ Neesmith	Planning Commissioner	Present	
Gabrielle Nelson	Planning Commissioner	Present	
Melanie Ellis	Building Inspector	Present	

4. APPROVAL OF AGENDA

1. Approval of Agenda

Motion to approve the agenda with the following changes: Table item 6.A to the next available Planning Commission meeting at the applicants request and text change in item 8.B by changing "General" to "Specific" on line three.

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

5. ADOPTION OF MINUTES

A. Planning Commission - Regular Meeting - May 10, 2021 7:00 PM

Attachment: Planning Commission Agenda Minutes June 14, 2021 DRAFT (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road

RESULT:	**ACCEPTED [UNANIMOUS]**
MOVER:	Gabrielle Nelson, Planning Commissioner
SECONDER:	Bill Herrin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

6. ZONING MAP AMENDMENTS (REZONING)

A. Zoning Map Amendment Application submitted by Phillip McCorkle, McCorkle, Johnson, McCoy, LLP., of behalf of Samuel Varnedoe, Jr., and Comer Varnedoe Meadows, for PIN's #'s 7-0976-02-044, portion of 7-0976-02-043, 7-0976-02-042, 7-0976-02-040, 7-0976-02-039, 7-0976-02-037, and a portion of 7-0976-02-036 (Saussy Road) to Rezone from RA (Residential Agriculture) to P-I-1 (Planned Industrial) Zoning District for the purpose of Warehousing

Item tabled to next available meeting per applicants request.

RESULT:	**DELAYED [UNANIMOUS]** **Next: 7/12/2021 6:30 PM**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

7. ZONING TEXT AMENDMENTS (ORDINANCES)

8. SITE PLAN/SUBDIVISION APPROVAL

A. Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of Northpoint Industrial, LLC., for of PIN #'s 7-0039-01-017, 7-0039-01-018Y, 7-0039-01-018Z, 7-0039-01-022Y, 7-0039-01-022Z, 7-0039-01-040, 7-0039-01-042, 7-0039-01-043 (120 Pinderpoint Road) for a Specific Development Site Plan to allow a Trailer Yard in a P-I-1 (Planned Industrial) Zoning District

Mark Crapps, Kern & Co., LLC., was present on behalf of the applicant and offered to answer any questions the commission may have. There were no questions/comments from the commission. There were no public comments. Commissioner Herrin made a motion to approve the application. Commissioner Rollf seconded the motion. The vote was unanimous.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Wanda Rollf, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

B. Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of CH Realty IX - Sansone, Savannah 21-95, L.P., for a portion of PIN # 7-0977-01-028 (Hendley Road) for a Specific Development Site Plan to allow a Warehouse / Distribution Center (Lineage) in a P-I-2 (Planned Industrial) Zoning District

Mark Crapps, Kern & Co., LLC., was present on behalf of the applicant. Mr. Crapps gave a brief overview of the project and offered to answer any questions the commission may have. Commissioner Nelson asked if any changes have been made from the approved concept plan. Mr. Crapps responded no. There were no public comments. Commissioner Rollf made a motion to approve the application. Commissioner Franklin seconded the

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motion. Commissioners Herrin, Franklin, and Rollf voted Yes. Commissioner Nelson voted No. The motion passes 3-1.

RESULT:	**APPROVED [3 TO 1]**
MOVER:	Wanda Rollf, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf
NAYS:	Nelson
ABSENT:	Bright, Morris

9. NEW BUSINESS

10. ADJOURNMENT

A. Adjournment

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

_____
Chairman

The foregoing minutes are true and correct and approved by me on this _____ day of _____, 2021.

_____
Secretary

Attachment: Planning Commission Agenda Minutes June 14, 2021 DRAFT (2455 : Site Plan Review Application (Specific) 120 Pinderpoint Road

COMPREHENSIVE STORMWATER HYDROLOGY

PINDER POINT TRAILER YARD FOR NORTHPORT INDUSTRIAL

120 PINDER POINT RD. PORT WENTWORTH, GA 31407

PROJECT NO. 180309.000

PREPARED BY:

KERN & CO.
P.O. BOX 15179
7 MALL COURT
SAVANNAH, GA 31416
(912)-354-8400
FAX (912)-356-1865



MARCH 23,2021

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1. SITE OVERVIEW

Northport Industrial. is proposing a trailer yard development on a parcel of land a total of 40.758acres located at 120 Pinder Point Rd. which will consist of two trailer yards separated by a power line right of way. Currently the 40.785 project area is one parcel on the northern side of Pinder Point Rd. separated by a 265' SEPCO Easement which will remain undisturbed. This creates two separate trailer yards. Both trailer yards have access to Pinder point Road. The area of disturbance is 20.52 acres

As stated previously, this property currently consists of a single Tax Parcel; Parcel No.: 2-0039-02-001. Currently much of the site is cleared and undeveloped. There are a few large residential homes that will be demolished during the construction phase of this proposed warehouse development. On what will become the second phase of this proposed development (located on the northern side of Pinder Point Rd.) there is an approximate 9 acre existing detention pond that will be utilized as the primary detention stormwater BMP for both phases of the proposed development. There are also several existing utility easements that cross this property whose areas have already been cleared and grubbed and will remain undisturbed by the project construction being proposed for this phase of development. On the eastern edge of the parcel, there are currently two easements. The first is a 90' Southern Natural Gas Easement and the second easement which abuts the 90' gas easement is a 50'SCG Pipeline Inc. Natural Gas Transmission Easement. There is also a 265' Savannah Electric and Power Company Easement that runs right through the center portion of the property. The final easement found on the property runs adjacent to the western property boundary and is a 100' Savannah Electric and Power Company & Industrial and Domestic Water Supply Easement. It should also be noted that just outside the western property boundary and running adjacent to said property boundary there is a 150' R/W for Seaboard Coastline Railroad. Please see construction plans dated May 01, 2020 to see existing and proposed site conditions for this development.

During the preliminary stage of the design for this project we determined the types of soil found on this property. There are three soil types located within the proposed limits of construction on this site and are as follows:

• Cc	Cape Fear Soils	Hydrologic Soil Group C/D
• Oj	Ocilla Complex	Hydrologic Soil Group B/D
• Ok	Ogeechee Fine Loamy Sand	Hydrologic Soil Group B/D
• Pl	Pelham Loamy Sand	Hydrologic Soil Group B/D

This information was taken from the Web Soil Survey 2.1 – National Cooperative Soil Survey by NRCS).

An overview of the pre-development and post-development drainage analysis is provided on the following sheets. A note for all calculation results. When developing the hydrographs through Hydraflow hydrographs, we used the Type III storm event with a shape factor of 300 and a time interval of 2 minutes.

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STORMWATER QUANTITY METHODOLOGY

The existing and proposed conditions will be analyzed using the Intelisolves' Hydraflow Hydrographs to generate the runoff hydrographs for each of the drainage basins based on the SCS Hydrograph Method. The program is used to model rainfall and stormwater runoff and to perform hydraulic routing through the storm drainage system for each storm event. The hydrologic input data consists of information for each drainage basin, or sub watershed, within the project. Input variables include runoff curve number, rainfall distribution pattern, hydrograph peaking factor, area of each drainage basin, and time of concentration (see below sections for specifics on the values of these variables that were used in this model). The program generates runoff hydrographs for each sub watershed based on the user-specified variables.

The model hydraulic input consists of a system of nodes and links. Nodes represent locations where flows enter or exit the system, pipe or channel characteristics changes, or where stage/storage/time relationships are provided. Links represent traditional types of hydraulic conveyance such as pipes, channels, drop structures, weirs, etc. The sizes, inverts, lengths, and pipe information, all lagoons and detention area stage-storage information and the respective within the model for a given storm, and flow conditions are determined.

Hydrographs for each drainage area are merged within the program, and the hydrologic results are then combined with the hydraulic information to model the hydraulic interactions of the entire drainage system. The results include detention area discharge rates and stage/storage information during the design storm events.

In addition, the final discharge rate from the system cannot exceed the pre-developed runoff rate. Knowing this, the drainage system is designed by trial and error. Since not much is currently known about the outlet control structure some assumptions had to be made to calculate a reasonable discharge leaving the existing detention pond as well as general knowledge of designing similar systems in the past with similar flows and sizes. Based on previous experience, we believed a reasonable assumption for what size outlet barrel for the peak flow rates that we are seeing based on our proposed construction would be a 36" RCP barrel leaving the outlet structure at approximately 1 percent slope. For this development, we focused the calculations based solely on what was coming from our 40.758-acre site. LIDAR contours downloaded from the NOAA website provided us a very general look at what could potentially be coming into the pond, and relative to the 9 acre size of the pond, the existing conditions of the land potentially flowing into the pond, and the large increase in impervious area to the existing site conditions of our project area, we felt it more than adequate to make the assumption that if the peak elevations did not overtop the top of bank when running analysis of our site alone, that the pond would be adequate in size considering whatever exact amount of additional inflow is coming to the existing pond from any off-site areas. We also have approximately 5 feet from the peak elevation when analyzing the 100-year, 24 hour storm event to the top of bank when looking at the results of the analysis from Hydraflow Hydrographs as shown in the calculations sections of this report. The pond does not have anywhere near the amount of off-site drainage area running to it, to increase the water level to make overtopping the pond a reasonable conclusion.

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STORM DRAINAGE SYSTEM

All stormwater generated will be routed to the existing pond. Stormwater leaving the pond will flow into the St Augustine Creek basin and allowed to discharge via the adjacent wetlands. Stormwater will enter the pond via grass swales and concrete flumes.

2. PRE-DEVELOPMENT ANALYSIS SUMMARY

Basin	Soil Name	Hyd. Soil Group	Cover Type	Hydrologic Condition	Area (ac)	CN	Comp CN
Basin 1	(See Above)	B/D	CLEARED	Fair	20.05	83	**83**
Basin 2		B/D	CLEARED	Fair	20.71	83	**83**
			TOTAL		40.76		**83**

Drainage Basin 1

A. Drainage Basin I Area, A_E 20.05 Acres

B. Design Basis: 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events

C. Time of Concentration, T_C: 60 min

D. Runoff Coefficient: CN = 83

E. Rainfall Intensity – 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events

I_2 = 4.80 in
I_5 = 6.00 in
I_{10} = 6.72 in
I_{25} = 7.92 in
I_{50} = 8.88 in
I_{100} = 9.84 in

F. Run-off , Q –2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events

Q_2 = 20.69 cfs
Q_5 = 28.23 cfs
Q_{10} = 32.80 cfs
Q_{25} = 40.43 cfs
Q_{50} = 46.55 cfs
Q_{100} = 52.65 cfs

Drainage Basin 2

Drainage Basin 2 Area, A_E: 20.71 Acres

A. Design Basis: 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events

B. Time of Concentration, T_C: 60 min

C. Runoff Coefficient: CN = 83

D. Rainfall Intensity – 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events

I_2 = 4.80 in
I_5 = 6.00 in
I_{10} = 6.72 in
I_{25} = 7.92 in
I_{50} = 8.88 in
I_{100} = 9.84 in

E. Run-off , Q –2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events

Q_2 = 21.37 cfs
Q_5 = 29.16 cfs
Q_{10} = 33.88 cfs
Q_{25} = 41.77 cfs
Q_{50} = 48.08 cfs
Q_{100} = 54.38 cfs

F. Run-off Combined, Q –2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events

Q_2 = 42.05 cfs
Q_5 = 57.38 cfs
Q_{10} = 66.67 cfs
Q_{25} = 82.20 cfs
Q_{50} = 94.62 cfs
Q_{100} = 107.03 cfs

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3. POST-DEVELOPMENT ANALYSIS SUMMARY:

Basin	Soil Na.me	Hyd. Soil Group	Cover Type	Hydrologic Condition	Area (ac)	CN	Comp CN
Basin 1 & 2	(See Above)	B/D	Grass	Fair	13.49	83	**27**
			Wetland	Good	3.24	83	**7**
			POND		9.0	98	**22**
			Impervious Paving		15.03	98	**36**
			TOTAL		40.76		**92**

Post Development Drainage Area 1 (Routed through Existing Detention Pond)

Drainage Area, A_E: 20.05 Acres

A. Design Basis: 2 - 100 -year, 24-Hour Storm Events

B. Time of Concentration, T_C: 14.7 min

C. Runoff Coefficient: CN = 92

D. Rainfall Intensity – 2 - 100-year, 24-Hour Storm Events

I_2 = 4.80 in
I_5 = 6.00 in
I_{10} = 6.72 in
I_{25} = 7.92 in

I_{50} = 8.88 in
I_{100} = 9.84 in

E. Run-off , Q – 2 - 100-year, 24-Hour Storm Events

Q_2 = 112.56 cfs
Q_5 = 142.48 cfs
Q_{10} = 160.35 cfs
Q_{25} = 190.03 cfs
Q_{50} = 213.72 cfs
Q_{100} = 237.35 cfs

Post Development Drainage Area 2 (Routed through Existing Detention Pond)

Drainage Area, A_E: 20.71 Acres

A. Design Basis: 2 - 100 -year, 24-Hour Storm Events

B. Time of Concentration, T_C: 3.8 min

C. Runoff Coefficient: CN = 92

D. Rainfall Intensity – 2 - 100-year, 24-Hour Storm Events

I_2 = 4.80 in
I_5 = 6.00 in
I_{10} = 6.72 in
I_{25} = 7.92 in
I_{50} = 8.88 in
I_{100} = 9.84 in

E. Run-off , Q – 2 - 100-year, 24-Hour Storm Events

Q_2 = 80.79 cfs
Q_5 = 103.59 cfs
Q_{10} = 117.19 cfs
Q_{25} = 139.74 cfs
Q_{50} = 157.70 cfs
Q_{100} = 175.61 cfs

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F. Run-off combined, Q – 2 - 100-year, 24-Hour Storm Events

Q_2 = 126.49 cfs
Q_5 = 162.58 cfs
Q_{10} = 184.11 cfs
Q_{25} = 219.80 cfs
Q_{50} = 248.23 cfs
Q_{100} = 276.56 cfs

4. PROPOSED DETENTION SUMMARY (EXISTING POND)

Existing Detention Pond

ELEVATION	AREA (SF)	VOLUME (CF)	CUMULATIVE VOLUME (CF)
2.00	358,078	0	0
3.00	368,336	363,159	363,159
4.00	378,650	373,444	736,602
5.00	389,019	383,785	1,120,387
6.00	399,043	393,981	1,514,368
7.00	409,923	404,430	1,918,798

TOTAL VOLUME = 1,918,798

Outlet: – 36" RCP BARREL @ INV ELEV = 2.00' (330' @ 0.1%) ASSUMED

POND SUMMARY:

	PEAK ELEV	PEAK CFS
2 YR	3.20.	5.77
5 YR	3.52'	8.43
10 YR	3.71'	10.08
25 YR	4.03'	12.72
50 YR	4.29'	14.62
100 YR	4.55'	16.18

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5. CONCLUSION

-FLOW RATE COMPARISON

- Post Development Flows are from both post development drainage areas combined in Hydraflow Hydrographs routed through existing detention pond with 36" RCP Barrel Outlet. We have assumed no orifice for this analysis.

	PRE	POST
2 YR	42.05 cfs	5.77 cfs
5 YR	57.38 cfs	8.43 cfs
10 YR	66.67 cfs	10.08 cfs
25 YR	82.80 cfs	12.72 cfs
50 YR	94.62 cfs	14.62 cfs
100 YR	107.03 cfs	16.18 cfs

-Post development attenuated flow rates are less than pre development flow rates.

*The Post 100-year storm event is less than the Pre 100-year storm event which accounts for channel protection, overbank protection, and extreme flood.

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Appendix A

Calculation Methods & Reference Equations

The hydrologic analysis in this report was based on the methodologies and equations presented in Urban Hydrology for Small Watersheds (TR-55) and the Georgia Stormwater Management Manual. The specific approaches used to calculate each of the hydrologic parameters are described below.

Time of Concentration

Sheet Flow

It was assumed that the most hydraulically distant points for each of the drainage basins sheet flows for the first 100 ft (from GA Stormwater Management Manual pg 2.1-25). The travel time for the sheet flow segments was then calculated using the following formula (GA Stormwater Management Manual equation 2.1.9):

$$T_t = \frac{0.42\ (n\,L)^{0.8}}{60\ (P_2)^{0.5}\ (S)^{0.4}}$$

where, T_t = travel time (hr)
n = Manning roughness coefficient for sheet flow
L = flow length (ft)
P_2 = 2-year, 24-hour rainfall (in)
S = land slope (ft/ft)

The "n" values were taken from GA Stormwater Management Manual Table 2.1.5-2 and the value of P_2 was set as 4.8 inches (from GA Stormwater Management Manual Table A-13) for Savannah, GA. The slopes (S) of the surfaces along the flow paths used for the hydraulic lengths were calculated from the topographic survey data.

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Shallow Concentrated Flow

To estimate the travel time for the shallow concentrated flow segments, first, the average velocity was determined using the following equations (from GA Stormwater Management Manual Equation 2.1.10):

Unpaved surface:

$$V = 16.1345\ (S)^{0.5}$$

where, V = average velocity (ft/s)
S = land slope (ft/ft)

Paved surface:

$$V = 20.3282\ (S)^{0.5}$$

where, V = average velocity (ft/s)
S = land slope (ft/ft)

These two equations are based on the solution of Manning's equation (from GA Stormwater Management Manual Equation 2.1.12) with different assumptions for n (Manning's roughness coefficient) and r (hydraulic radius, ft). For unpaved areas, n is 0.05 and r is 0.4; for paved areas, n is 0.025 and r is 0.2.

Channel Flow

The velocity of the water in the ditch can be calculated using Manning's equation for Open Channel flow (from GA Stormwater Management Manual Equation 2.1.12):

$$V = \frac{1.49\ (R)^{2/3}\ (S)^{1/2}}{n}$$

where, V = average velocity (ft/s)
R = hydraulic radius (ft)
S = land slope (ft/ft)
n = Manning roughness coeff. for open channel flow

The total time of concentration (t_c) for each of the basins was determined by adding the travel times for the sheet, shallow concentrated, and open channel flow segments.

Rainfall Intensities

The rainfall intensity for storms with the 2-yr thru 50-yr return frequency in the Savannah metropolitan area can be calculated with the following equations (from GA Stormwater Management Manual Table A-13):

$$I_{25\text{-yr}} = 167.17 / (t_c + 28)^{0.8597}$$

$$I_{100\text{-yr}} = 220.00 / (t_c + 32)^{08671}$$

where, i = rainfall intensity (in/hr)
t_c = time of concentration (min)

Runoff Rates

The SCS method applicable to the Savannah metropolitan area is based on a storm event that has Type III time distribution. The empirical relationship: $I_a = 0.2\,S$ is used in the SCS method to estimate the initial abstraction, which represents the surface storage, interception, evaporation, and infiltration that occurs prior to runoff. Using this definition for I_a, the following equation is used to estimate the direct runoff from a 24-hr rainfall event (from GA Stormwater Management Manual, equation 2.1.6):

$$Q = \frac{(P - 0.2\,S)^2}{(P + 0.8\,S)}$$

where, Q = accumulated direct runoff (in)

P = accumulated rainfall (in)

S = potential maximum soil retention (in)

and S = (1000/CN) - 10

The 24 hour rainfall accumulations (P values) for the 25-year, and 100-year storms in the Savannah area are 7.92 and 9.84 inches respectively. Using those values, along with the respective Curve Numbers for each basin, the runoff volumes were calculated for each drainage basin.

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Appendix B
STORM MODELING OUTPUT

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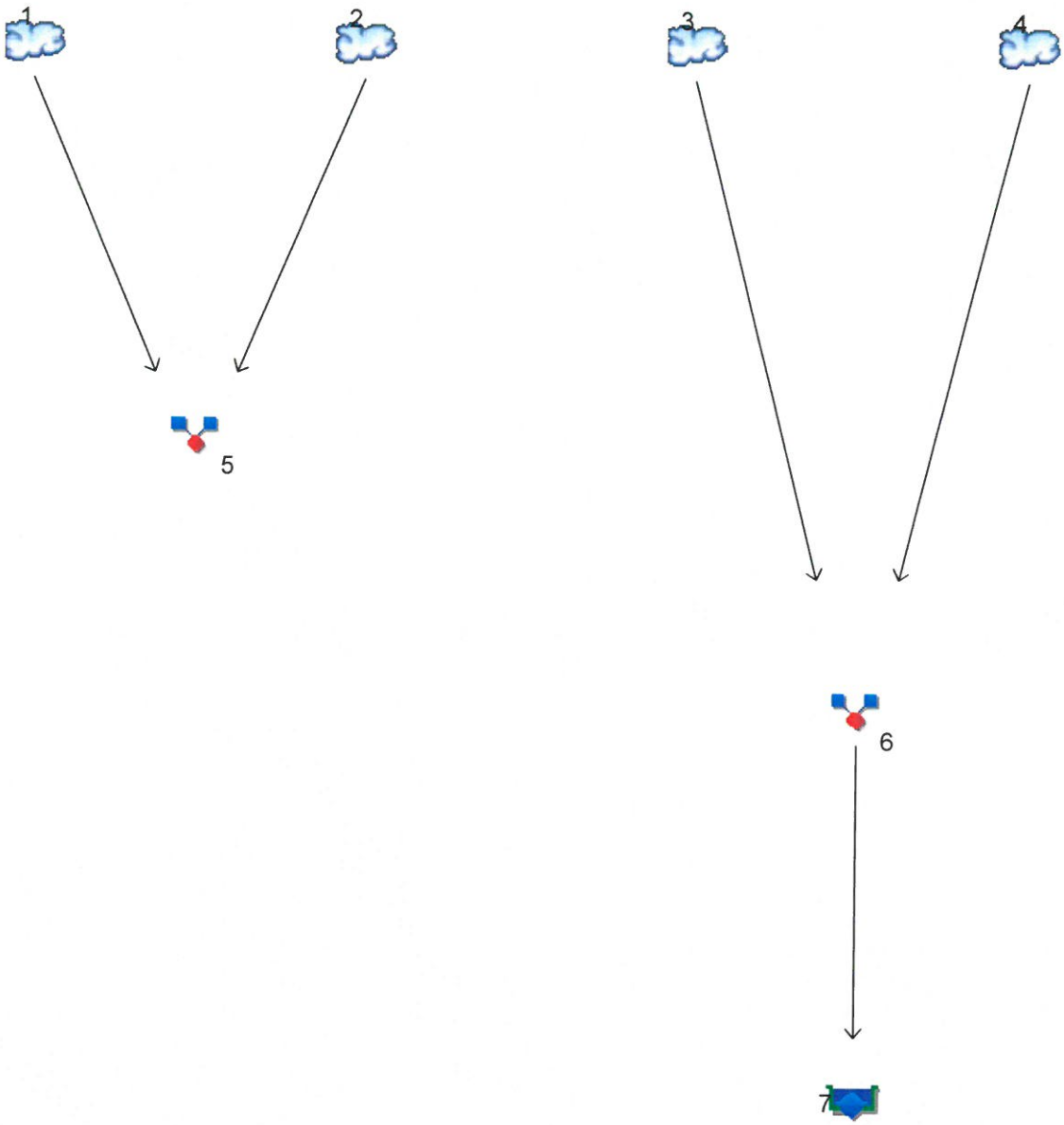
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Watershed Model Schematic

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v20



Legend

Hyd.	Origin	Description
1	SCS Runoff	Pre Drainage Area 1
2	SCS Runoff	Pre Drainage Area 2
3	SCS Runoff	Post Drainage Area 1
4	SCS Runoff	Post Drainage Area 2
5	Combine	Pre Combined
6	Combine	<no description>
7	Reservoir	<no description>

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Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v202

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	------	-------	20.69	-------	28.23	32.80	40.43	46.55	52.65	Pre Drainage Area 1
2	SCS Runoff	------	-------	21.37	-------	29.16	33.88	41.77	48.08	54.38	Pre Drainage Area 2
3	SCS Runoff	------	-------	53.99	-------	69.39	78.58	93.83	105.98	118.08	Post Drainage Area 1
4	SCS Runoff	------	-------	80.79	-------	103.59	117.19	139.74	157.70	175.61	Post Drainage Area 2
5	Combine	1, 2,	-------	42.05	-------	57.38	66.67	82.20	94.62	107.03	Pre Combined
6	Combine	3, 4,	-------	126.49	-------	162.58	184.11	219.80	248.23	276.56	<no description>
7	Reservoir	6	-------	5.771	-------	8.434	10.08	12.72	14.62	16.18	<no description>

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v20

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	20.69	2	768	216,650	------	------	------	Pre Drainage Area 1
2	SCS Runoff	21.37	2	768	223,782	------	------	------	Pre Drainage Area 2
3	SCS Runoff	53.99	2	734	289,861	------	------	------	Post Drainage Area 1
4	SCS Runoff	80.79	2	726	306,207	------	------	------	Post Drainage Area 2
5	Combine	42.05	2	768	440,432	1, 2,	------	------	Pre Combined
6	Combine	126.49	2	726	596,067	3, 4,	------	------	<no description>
7	Reservoir	5.771	2	954	512,383	6	3.20	436,544	<no description>

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

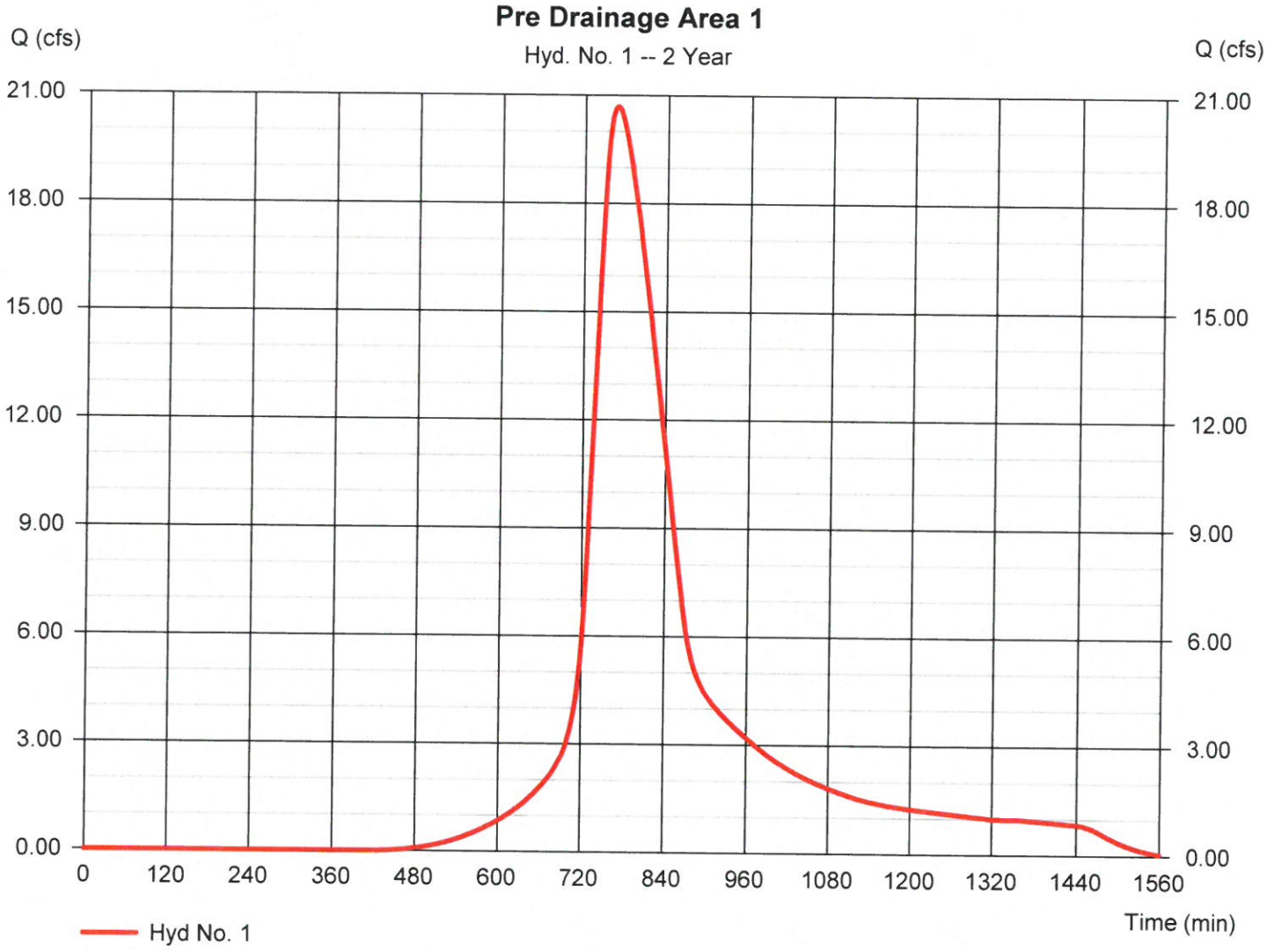
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 1

Pre Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 20.69 cfs
Storm frequency	= 2 yrs	Time to peak	= 768 min
Time interval	= 2 min	Hyd. volume	= 216,650 cuft
Drainage area	= 20.050 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 4.80 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(1.320 x 77) + (8.680 x 84)] / 20.050



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

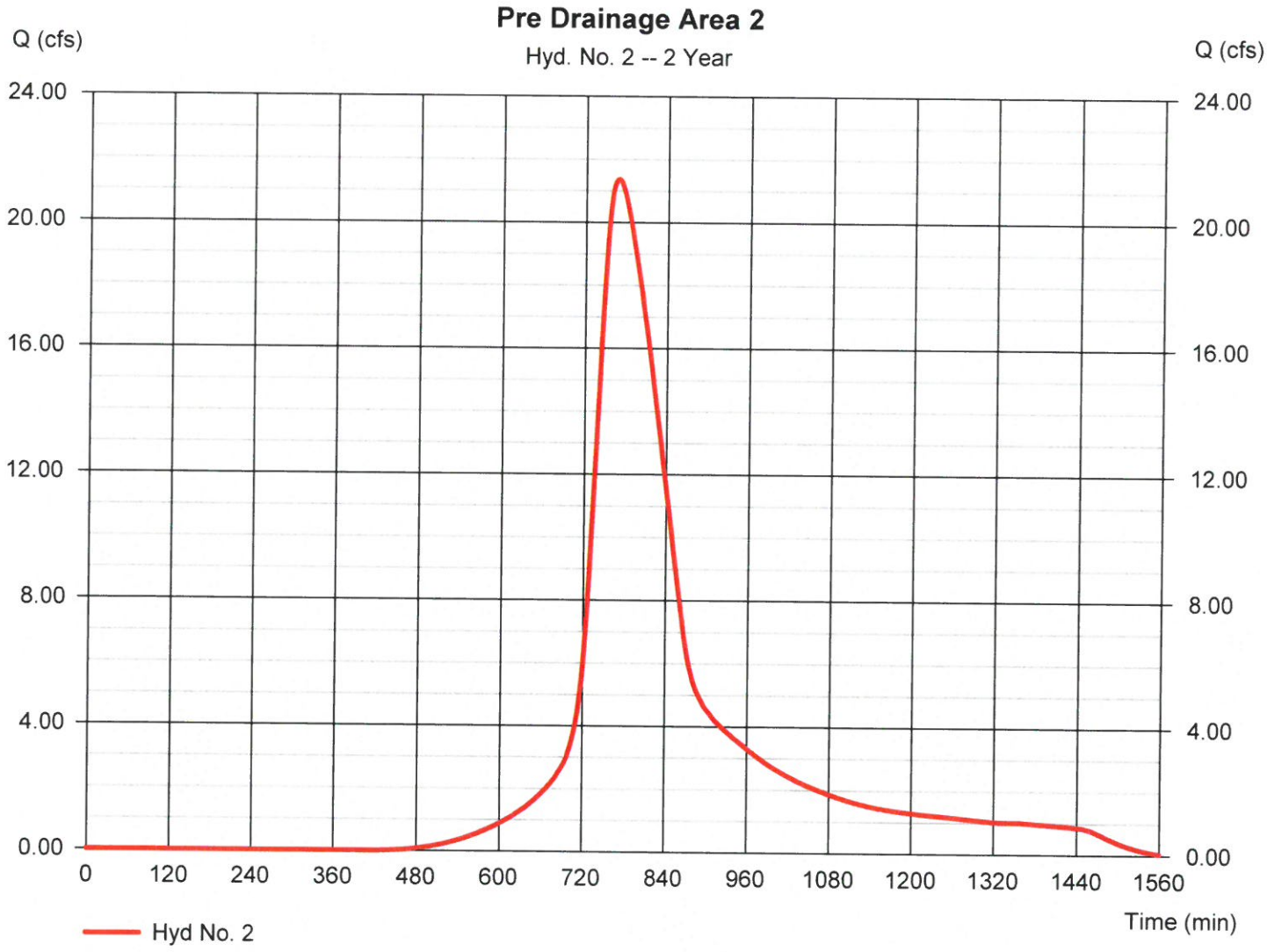
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 2

Pre Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 21.37 cfs
Storm frequency	= 2 yrs	Time to peak	= 768 min
Time interval	= 2 min	Hyd. volume	= 223,782 cuft
Drainage area	= 20.710 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 4.80 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(28.770 x 77) + (7.980 x 84)] / 20.710



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

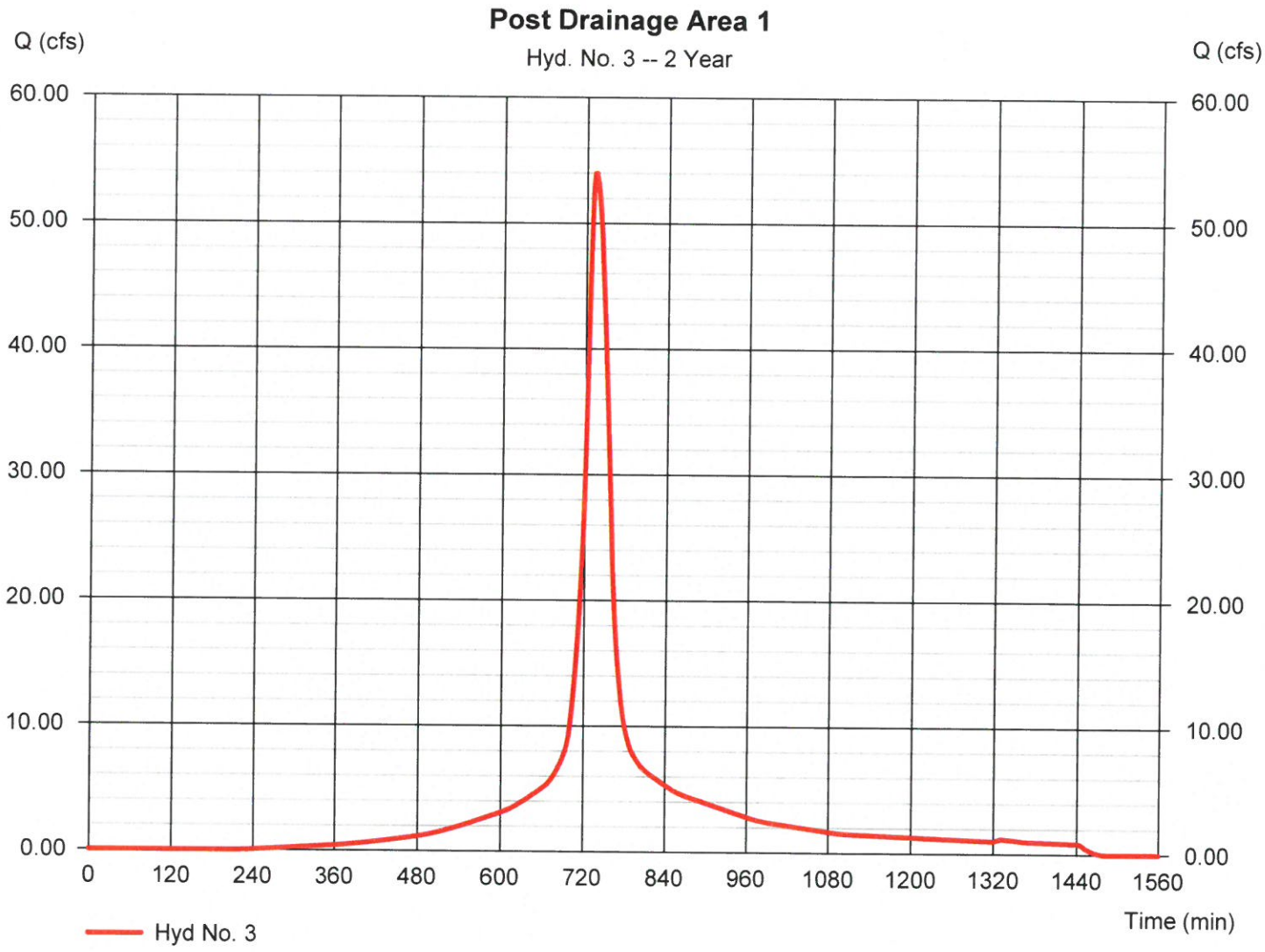
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 3

Post Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 53.99 cfs
Storm frequency	= 2 yrs	Time to peak	= 734 min
Time interval	= 2 min	Hyd. volume	= 289,861 cuft
Drainage area	= 20.050 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 14.70 min
Total precip.	= 4.80 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No. 3

Post Drainage Area 1

Description	A		B		C		Totals
Sheet Flow							
Manning's n-value	= 0.130		0.011		0.011		
Flow length (ft)	= 100.0		0.0		0.0		
Two-year 24-hr precip. (in)	= 4.80		0.00		0.00		
Land slope (%)	= 0.83		0.00		0.00		
Travel Time (min)	**= 10.14**	**+**	**0.00**	**+**	**0.00**	**=**	**10.14**
Shallow Concentrated Flow							
Flow length (ft)	= 505.00		0.00		0.00		
Watercourse slope (%)	= 0.83		0.00		0.00		
Surface description	= Paved		Paved		Paved		
Average velocity (ft/s)	=1.85		0.00		0.00		
Travel Time (min)	**= 4.54**	**+**	**0.00**	**+**	**0.00**	**=**	**4.54**
Channel Flow							
X sectional flow area (sqft)	= 0.00		0.00		0.00		
Wetted perimeter (ft)	= 0.00		0.00		0.00		
Channel slope (%)	= 0.00		0.00		0.00		
Manning's n-value	= 0.015		0.015		0.015		
Velocity (ft/s)	=0.00						
			0.00				
					0.00		
Flow length (ft)	({0})0.0		0.0		0.0		
Travel Time (min)	**= 0.00**	**+**	**0.00**	**+**	**0.00**	**=**	**0.00**

Total Travel Time, Tc ..... 14.70 min

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

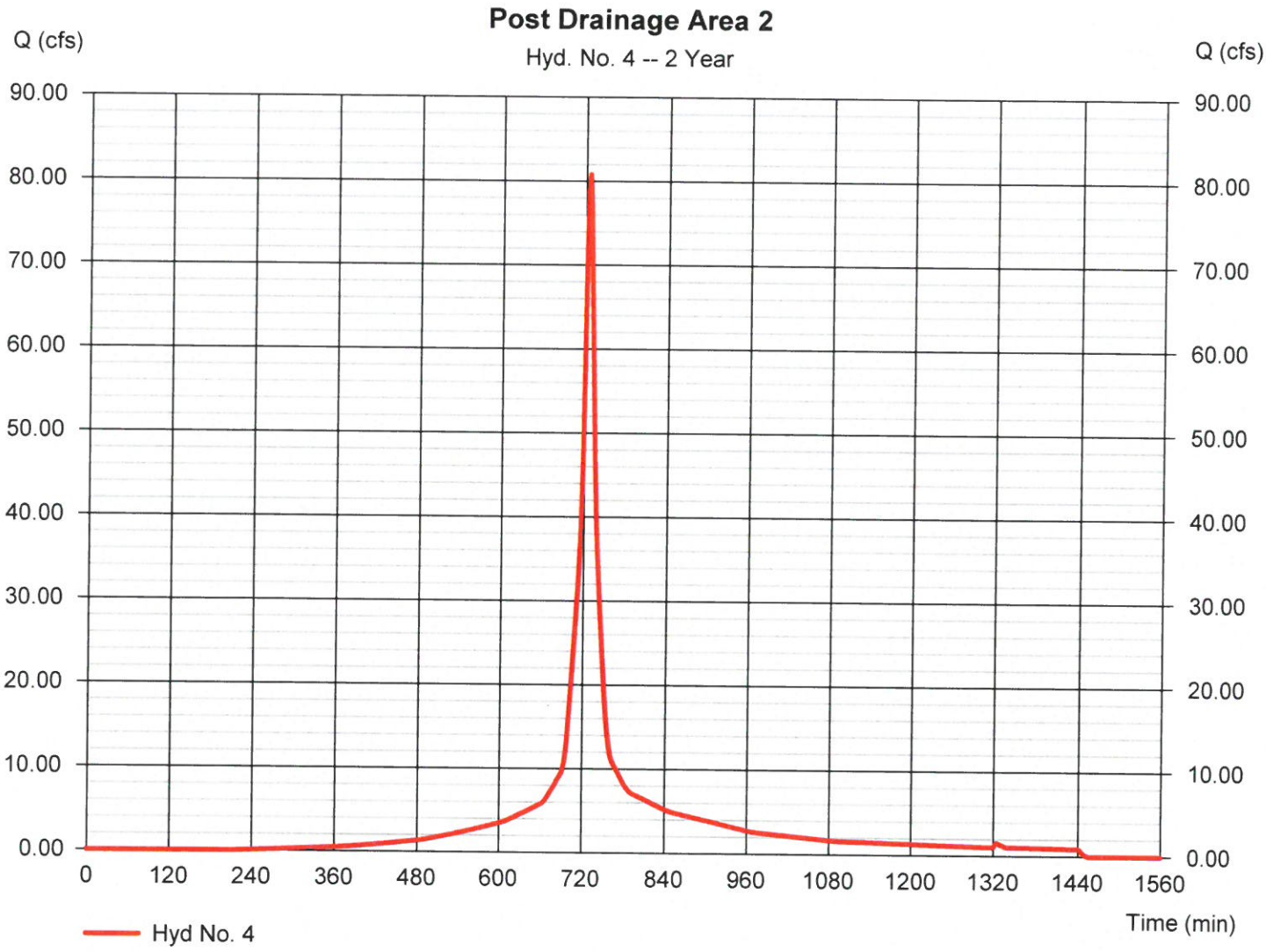
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 4

Post Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 80.79 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 306,207 cuft
Drainage area	= 20.710 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.60 min
Total precip.	= 4.80 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No. 4

Post Drainage Area 2

Description	A		B		C		Totals
Sheet Flow							
Manning's n-value	= 0.013		0.011		0.011		
Flow length (ft)	= 100.0		0.0		0.0		
Two-year 24-hr precip. (in)	= 4.80		0.00		0.00		
Land slope (%)	= 0.70		0.00		0.00		
Travel Time (min)	**= 1.72**	**+**	**0.00**	**+**	**0.00**	**=**	**1.72**
Shallow Concentrated Flow							
Flow length (ft)	= 190.00		0.00		0.00		
Watercourse slope (%)	= 0.70		0.00		0.00		
Surface description	= Paved		Paved		Paved		
Average velocity (ft/s)	=1.70		0.00		0.00		
Travel Time (min)	**= 1.86**	**+**	**0.00**	**+**	**0.00**	**=**	**1.86**
Channel Flow							
X sectional flow area (sqft)	= 0.00		0.00		0.00		
Wetted perimeter (ft)	= 0.00		0.00		0.00		
Channel slope (%)	= 0.00		0.00		0.00		
Manning's n-value	= 0.015		0.015		0.015		
Velocity (ft/s)	=0.00						
			0.00				
					0.00		
Flow length (ft)	({0})0.0		0.0		0.0		
Travel Time (min)	**= 0.00**	**+**	**0.00**	**+**	**0.00**	**=**	**0.00**

Total Travel Time, Tc ..... 3.60 min

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

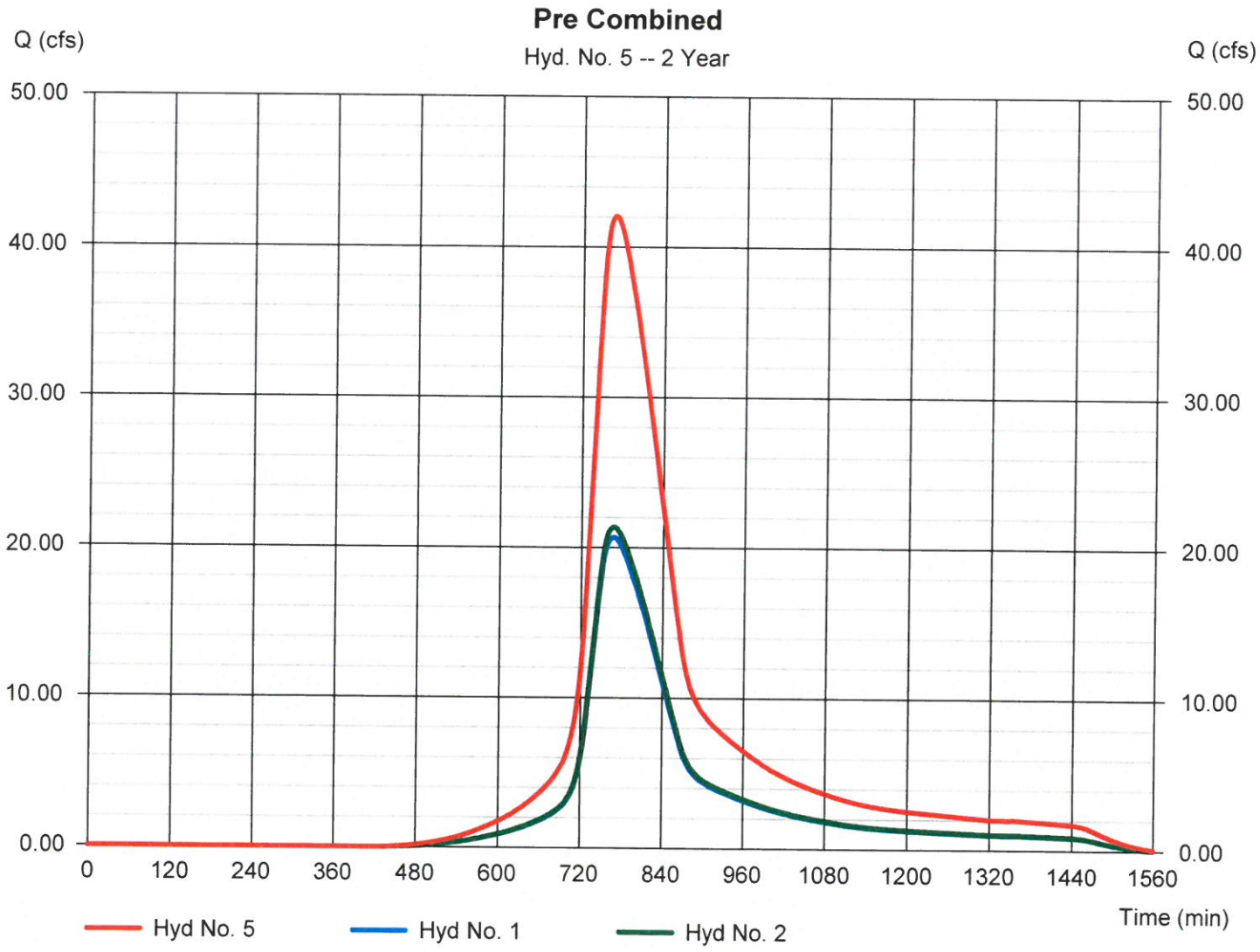
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 5

Pre Combined

Hydrograph type	= Combine	Peak discharge	= 42.05 cfs
Storm frequency	= 2 yrs	Time to peak	= 768 min
Time interval	= 2 min	Hyd. volume	= 440,432 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

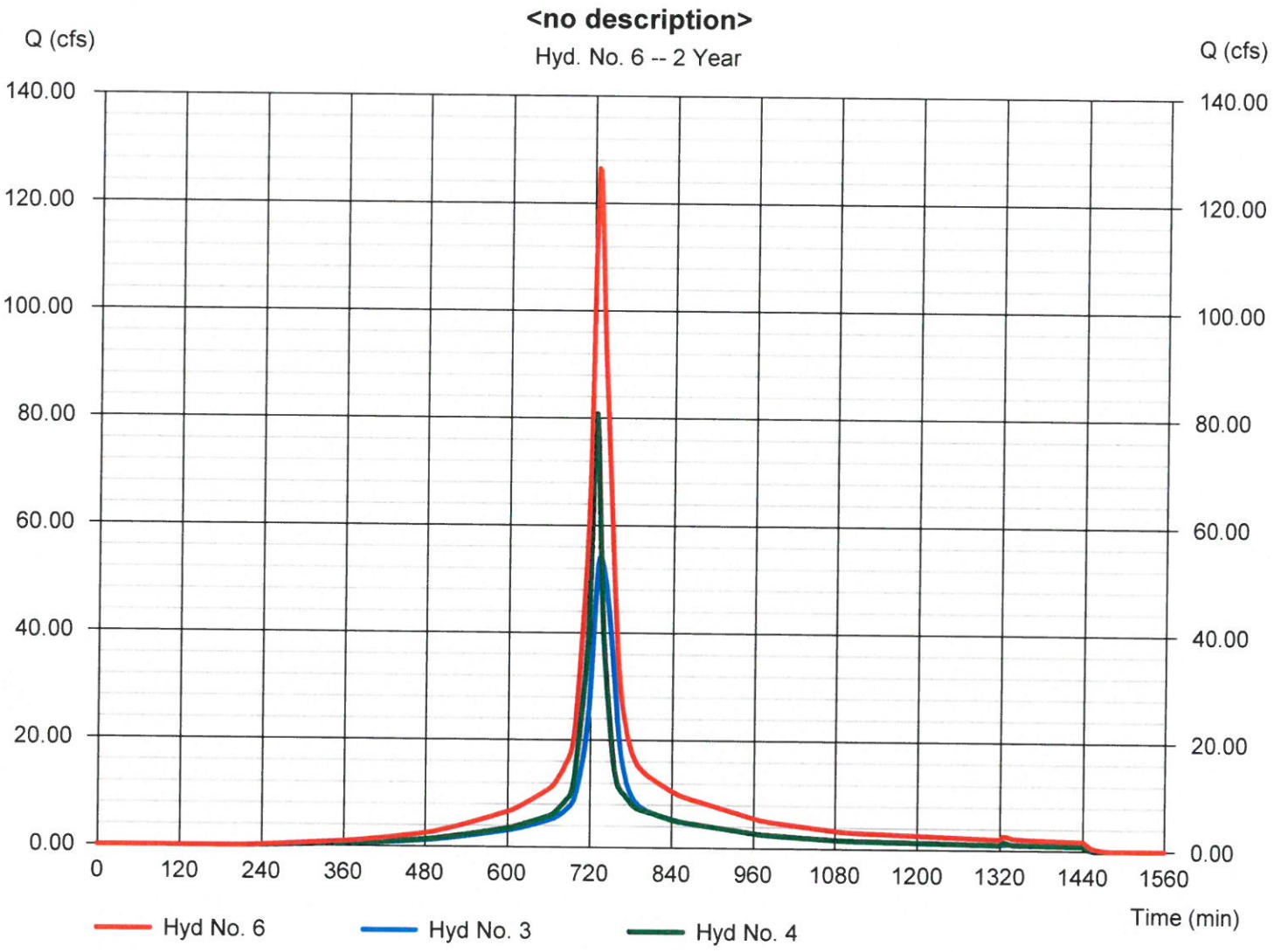
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Combine	Peak discharge	= 126.49 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 596,067 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

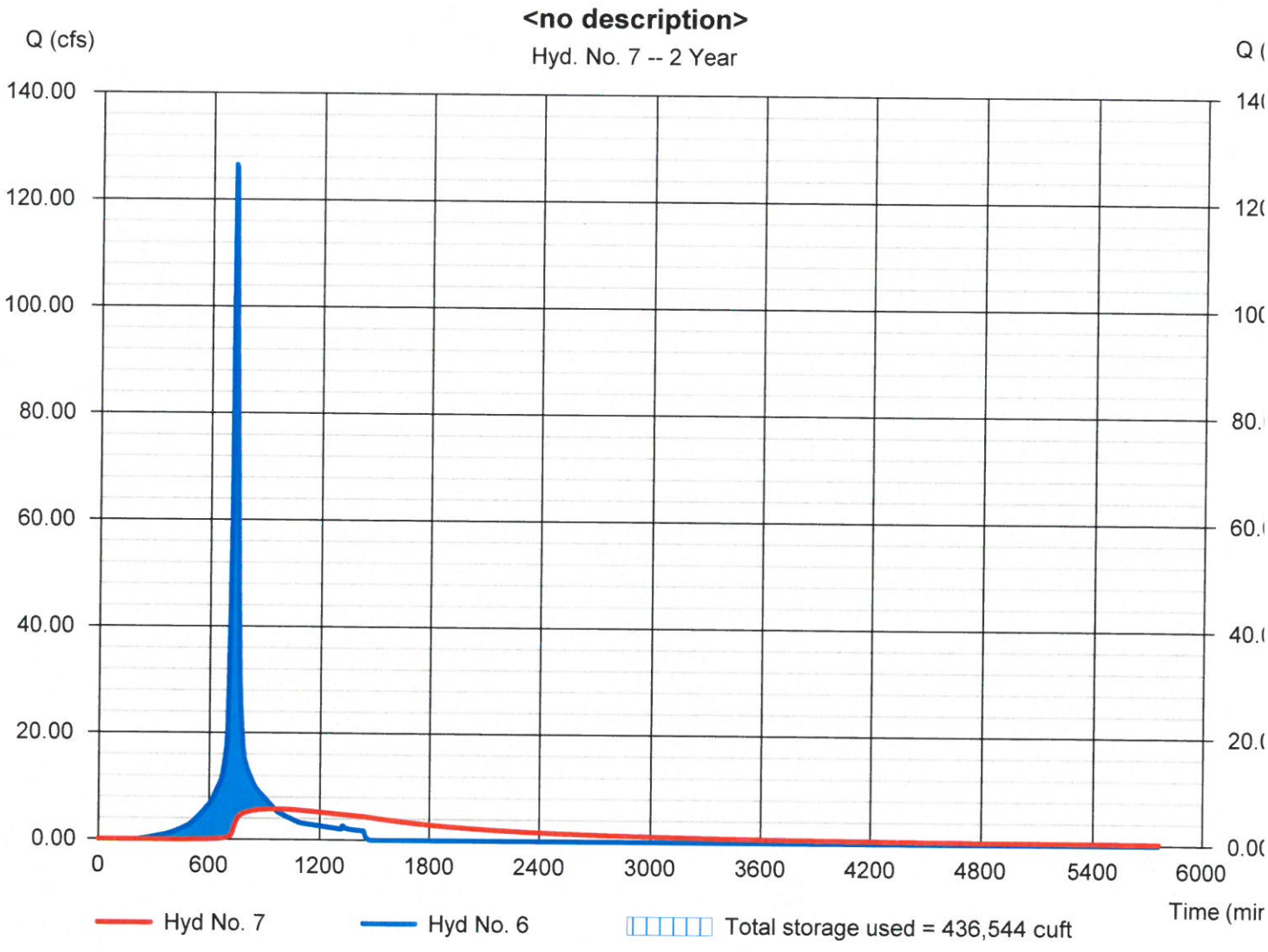
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 7

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 5.771 cfs
Storm frequency	= 2 yrs	Time to peak	= 954 min
Time interval	= 2 min	Hyd. volume	= 512,383 cuft
Inflow hyd. No.	= 6 - <no description>	Max. Elevation	= 3.20 ft
Reservoir name	= EXISTING POND	Max. Storage	= 436,544 cuft

Storage Indication method used.



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 — Tuesday, 03 / 23 / 2021

Pond No. 1 - EXISTING POND

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 2.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	2.00	358,078	0	0
1.00	3.00	368,336	363,159	363,159
2.00	4.00	378,650	373,444	736,602
3.00	5.00	389,019	383,785	1,120,387
4.00	6.00	399,043	393,981	1,514,368
5.00	7.00	409,923	404,430	1,918,798

Culvert / Orifice Structures

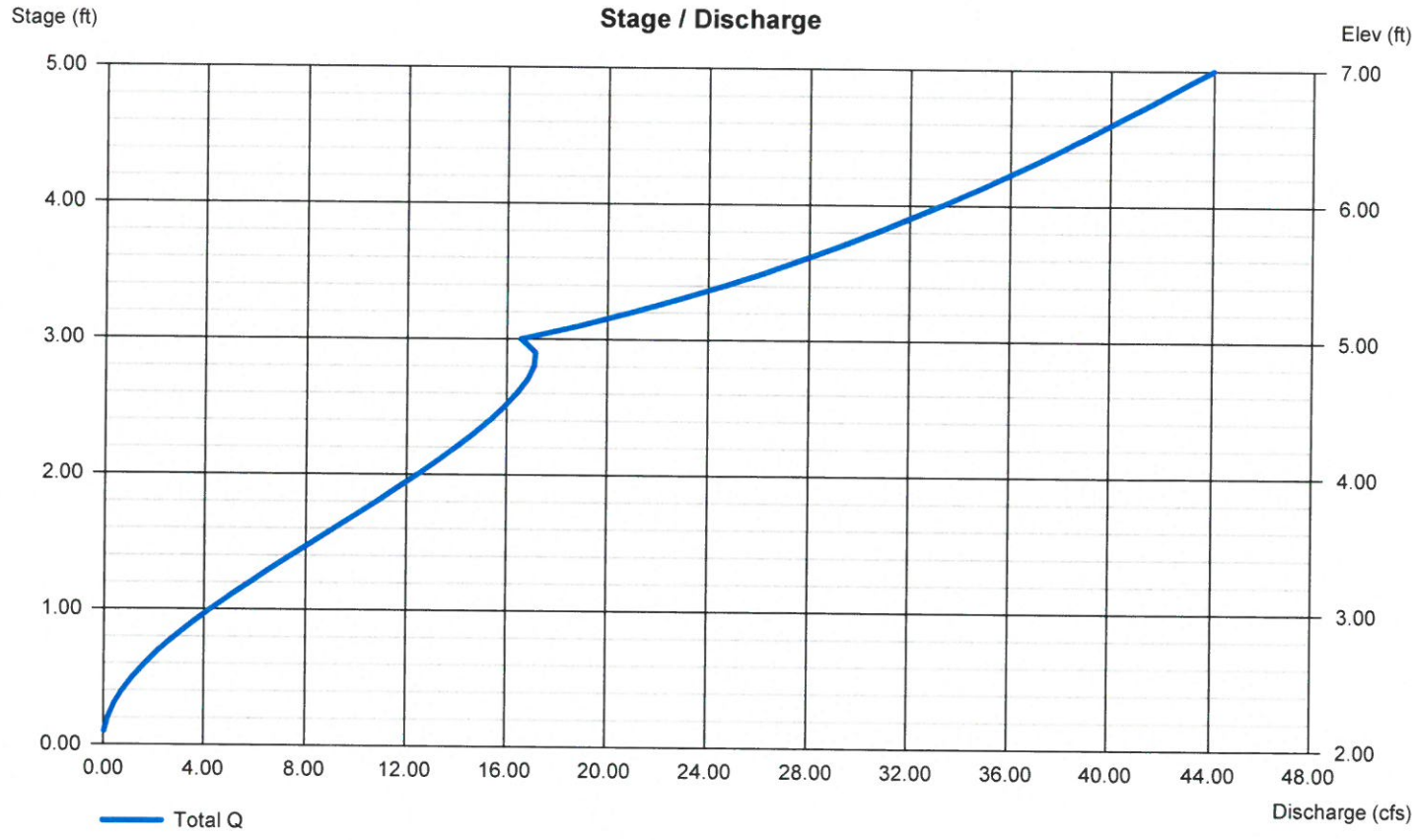
	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 36.00	0.00	0.00	0.00
Span (in)	= 36.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 2.00	0.00	0.00	0.00
Length (ft)	= 330.00	0.00	0.00	0.00
Slope (%)	= 0.10	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Rect	Rect	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)
TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v20

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	28.23	2	766	296,084	------	------	------	Pre Drainage Area 1
2	SCS Runoff	29.16	2	766	305,831	------	------	------	Pre Drainage Area 2
3	SCS Runoff	69.39	2	732	377,348	------	------	------	Post Drainage Area 1
4	SCS Runoff	103.59	2	726	398,628	------	------	------	Post Drainage Area 2
5	Combine	57.38	2	766	601,915	1, 2,	------	------	Pre Combined
6	Combine	162.58	2	726	775,975	3, 4,	------	------	<no description>
7	Reservoir	8.434	2	930	688,182	6	3.52	556,529	<no description>

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

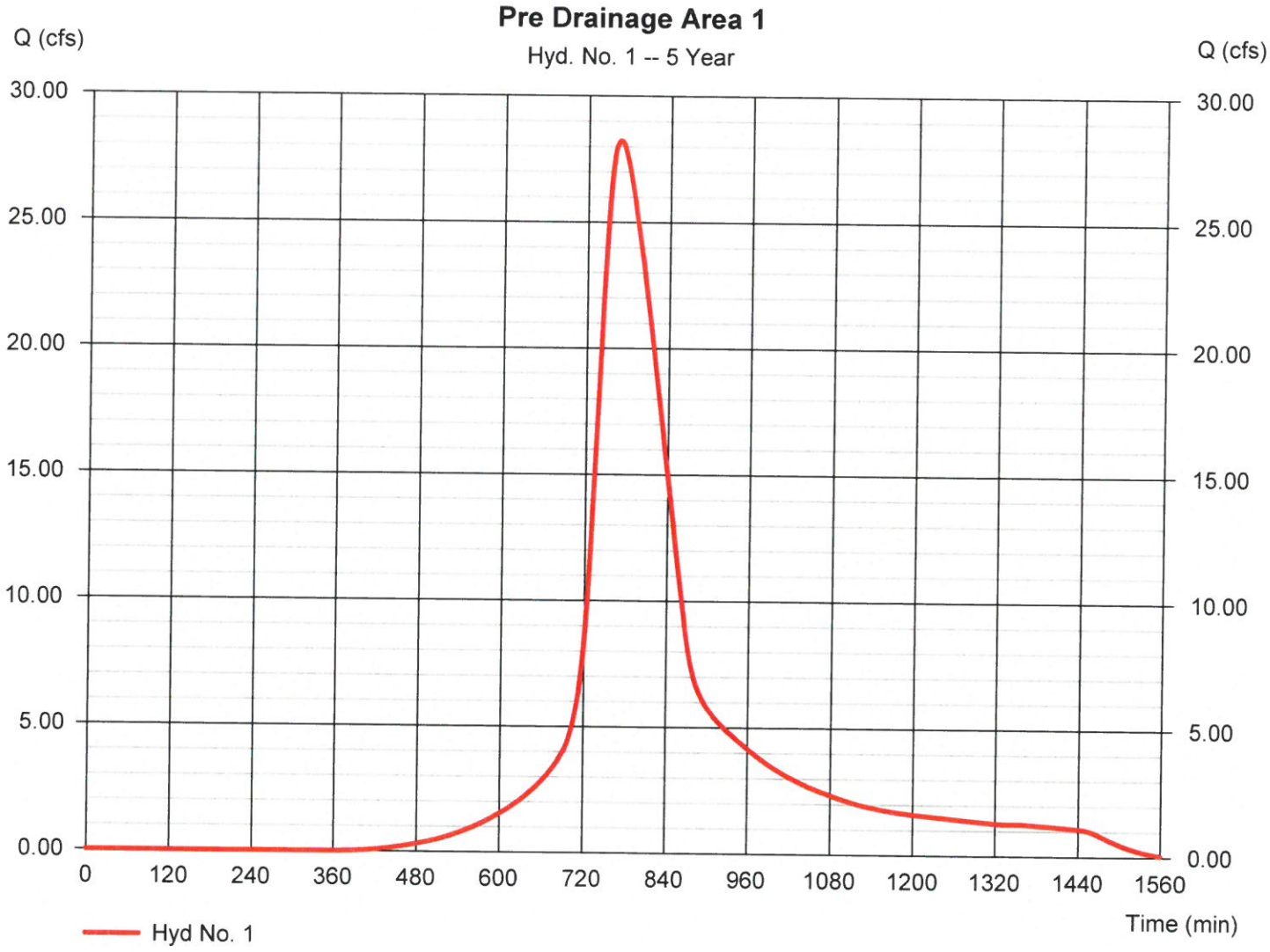
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 1

Pre Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 28.23 cfs
Storm frequency	= 5 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 296,084 cuft
Drainage area	= 20.050 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 6.00 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(1.320 x 77) + (8.680 x 84)] / 20.050



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

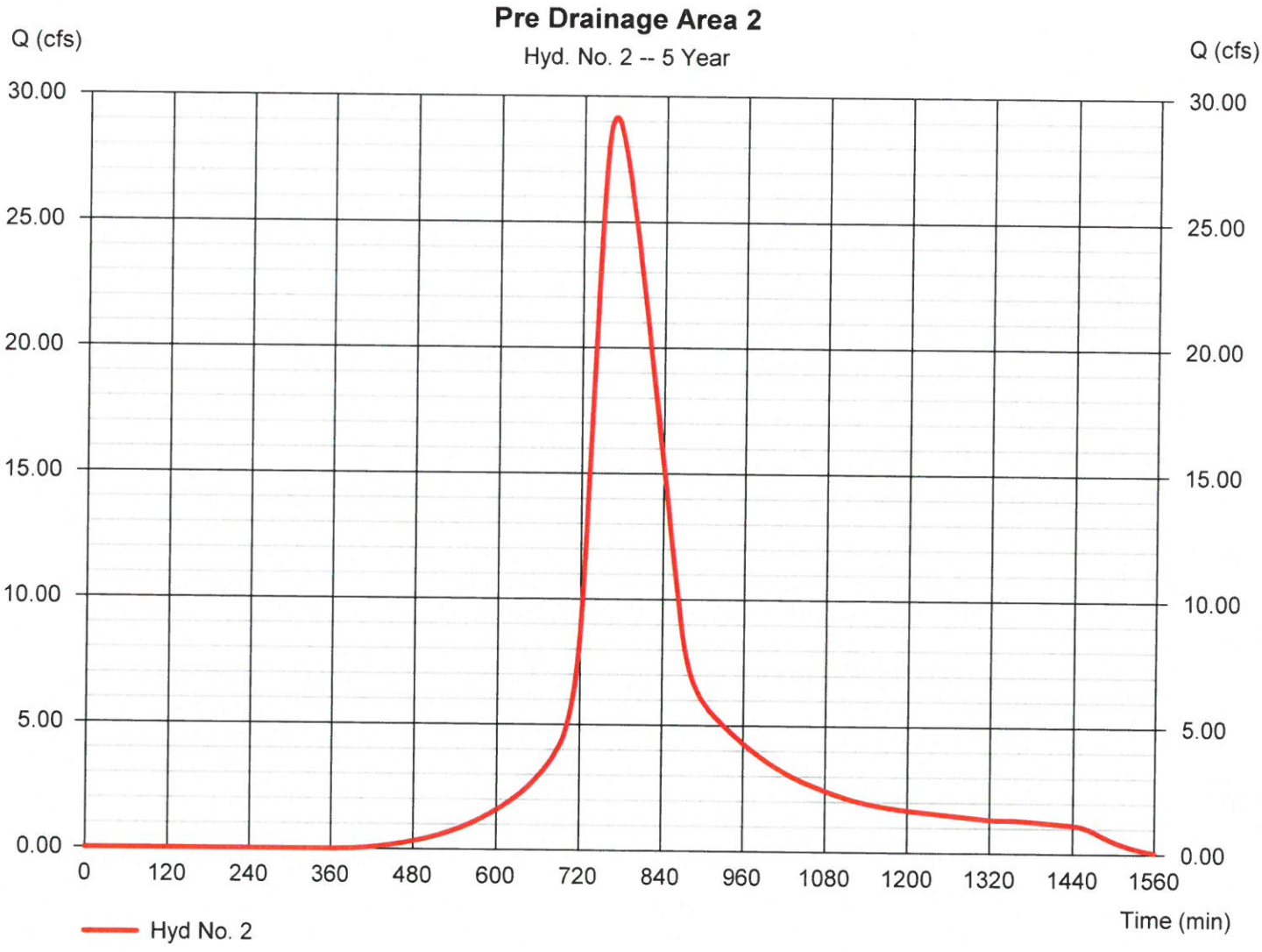
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 2

Pre Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 29.16 cfs
Storm frequency	= 5 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 305,831 cuft
Drainage area	= 20.710 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 6.00 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(28.770 x 77) + (7.980 x 84)] / 20.710



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

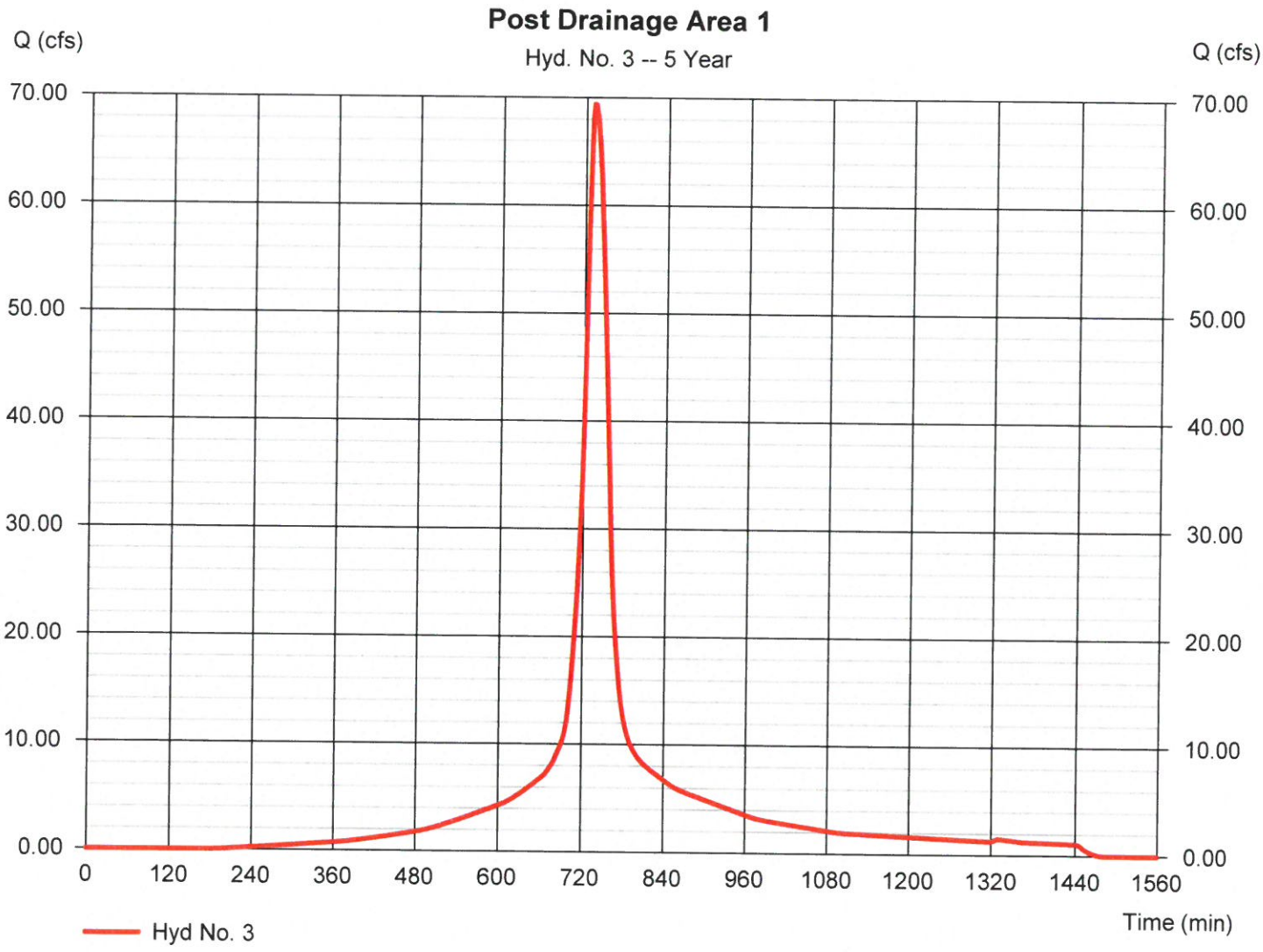
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 3

Post Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 69.39 cfs
Storm frequency	= 5 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 377,348 cuft
Drainage area	= 20.050 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 14.70 min
Total precip.	= 6.00 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

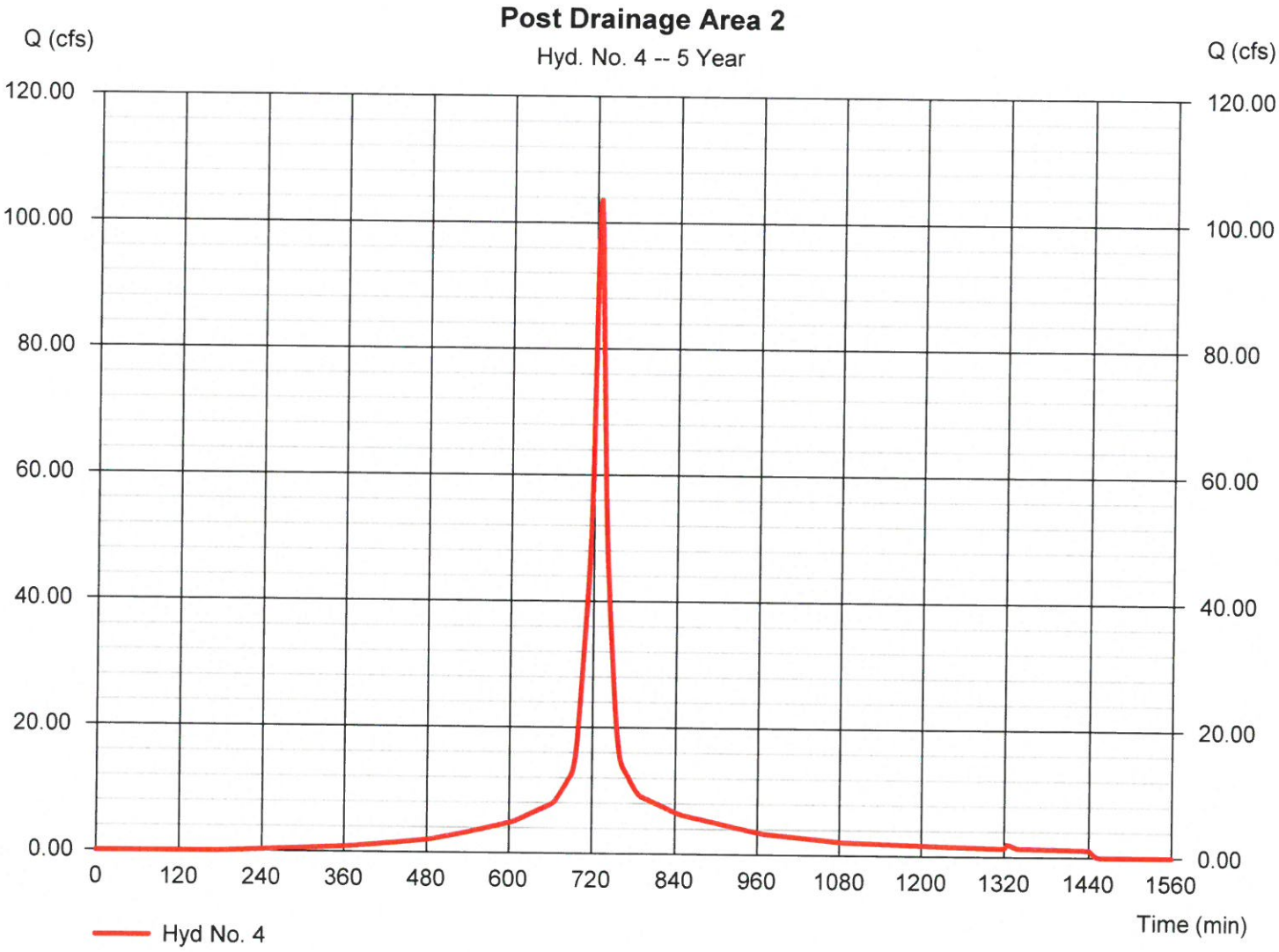
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 4

Post Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 103.59 cfs
Storm frequency	= 5 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 398,628 cuft
Drainage area	= 20.710 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.60 min
Total precip.	= 6.00 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

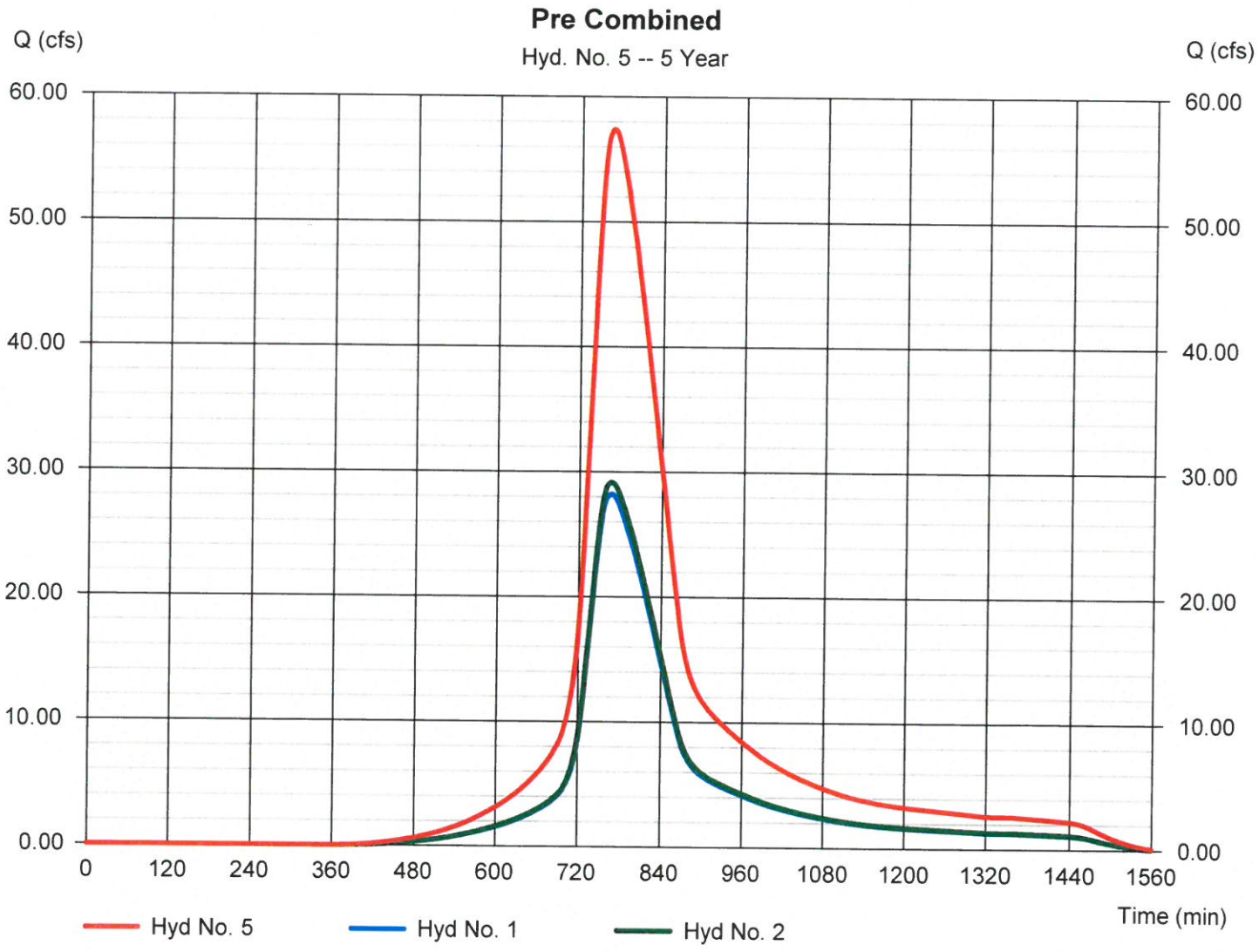
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 5

Pre Combined

Hydrograph type	= Combine	Peak discharge	= 57.38 cfs
Storm frequency	= 5 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 601,915 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

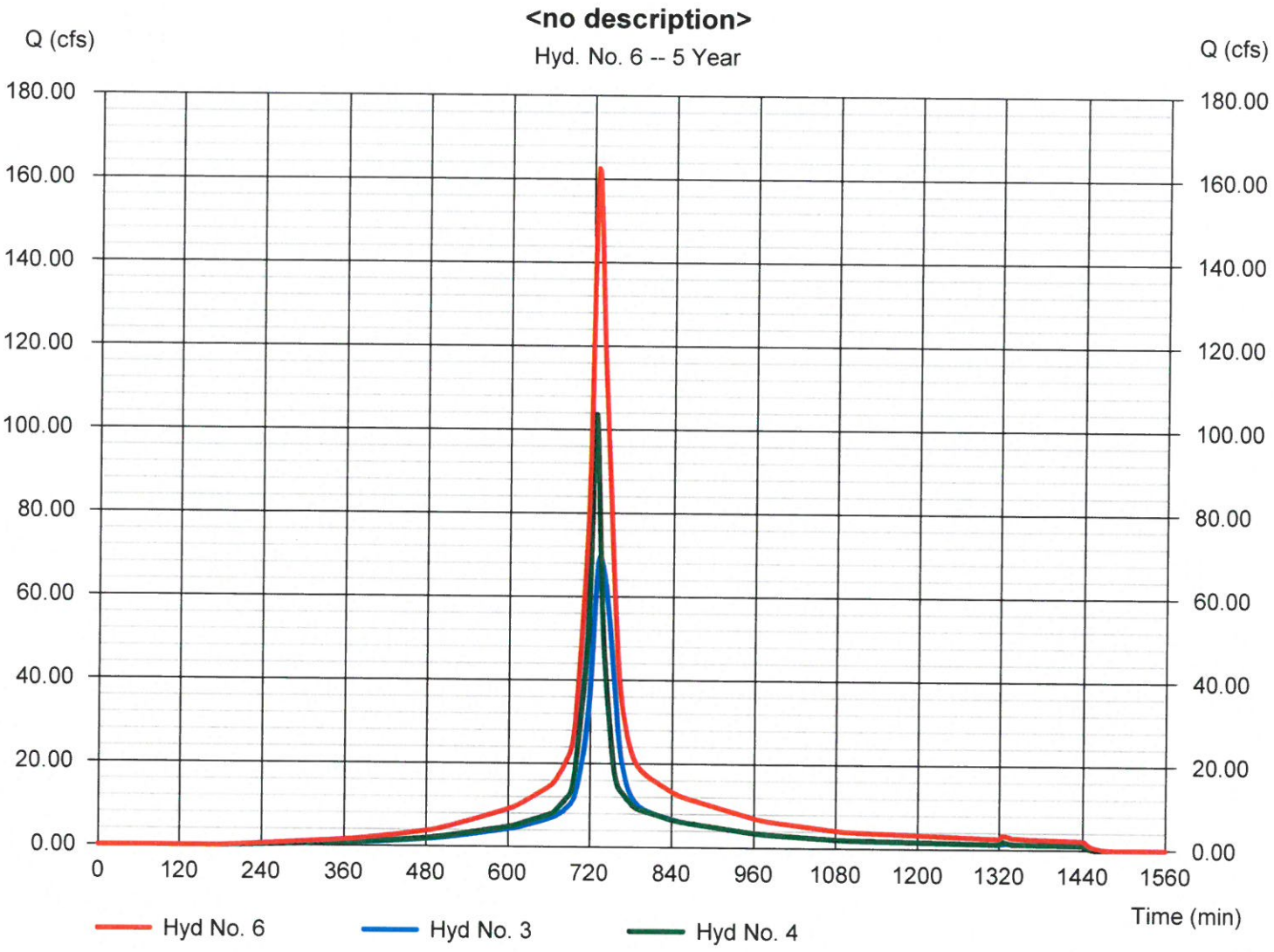
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Combine	Peak discharge	= 162.58 cfs
Storm frequency	= 5 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 775,975 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

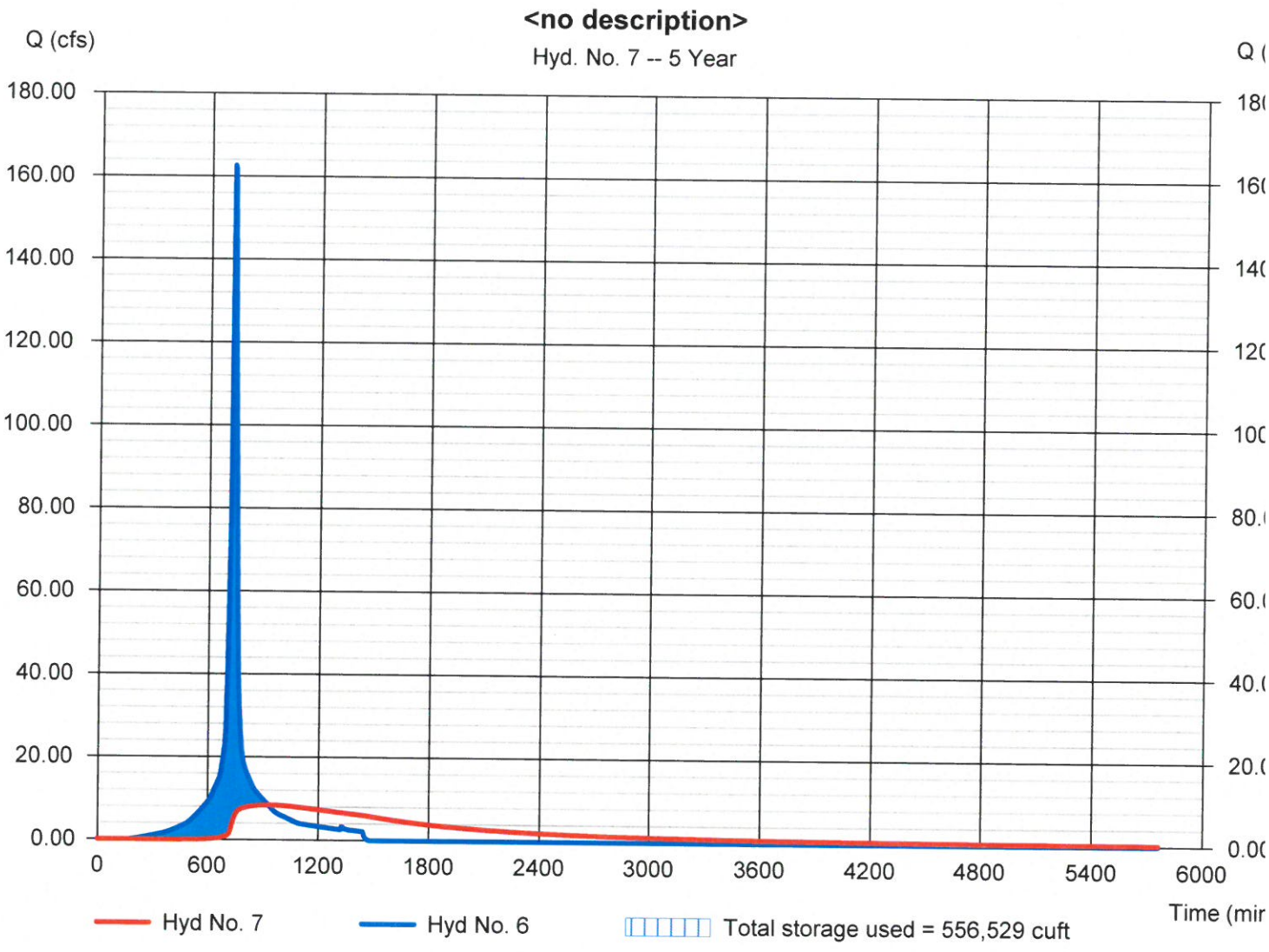
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 7

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 8.434 cfs
Storm frequency	= 5 yrs	Time to peak	= 930 min
Time interval	= 2 min	Hyd. volume	= 688,182 cuft
Inflow hyd. No.	= 6 - <no description>	Max. Elevation	= 3.52 ft
Reservoir name	= EXISTING POND	Max. Storage	= 556,529 cuft

Storage Indication method used.



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v202

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	32.80	2	766	344,766	------	------	------	Pre Drainage Area 1
2	SCS Runoff	33.88	2	766	356,114	------	------	------	Pre Drainage Area 2
3	SCS Runoff	78.58	2	732	430,125	------	------	------	Post Drainage Area 1
4	SCS Runoff	117.19	2	726	454,381	------	------	------	Post Drainage Area 2
5	Combine	66.67	2	766	700,880	1, 2,	------	------	Pre Combined
6	Combine	184.11	2	726	884,507	3, 4,	------	------	<no description>
7	Reservoir	10.08	2	920	794,683	6	3.71	628,449	<no description>

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

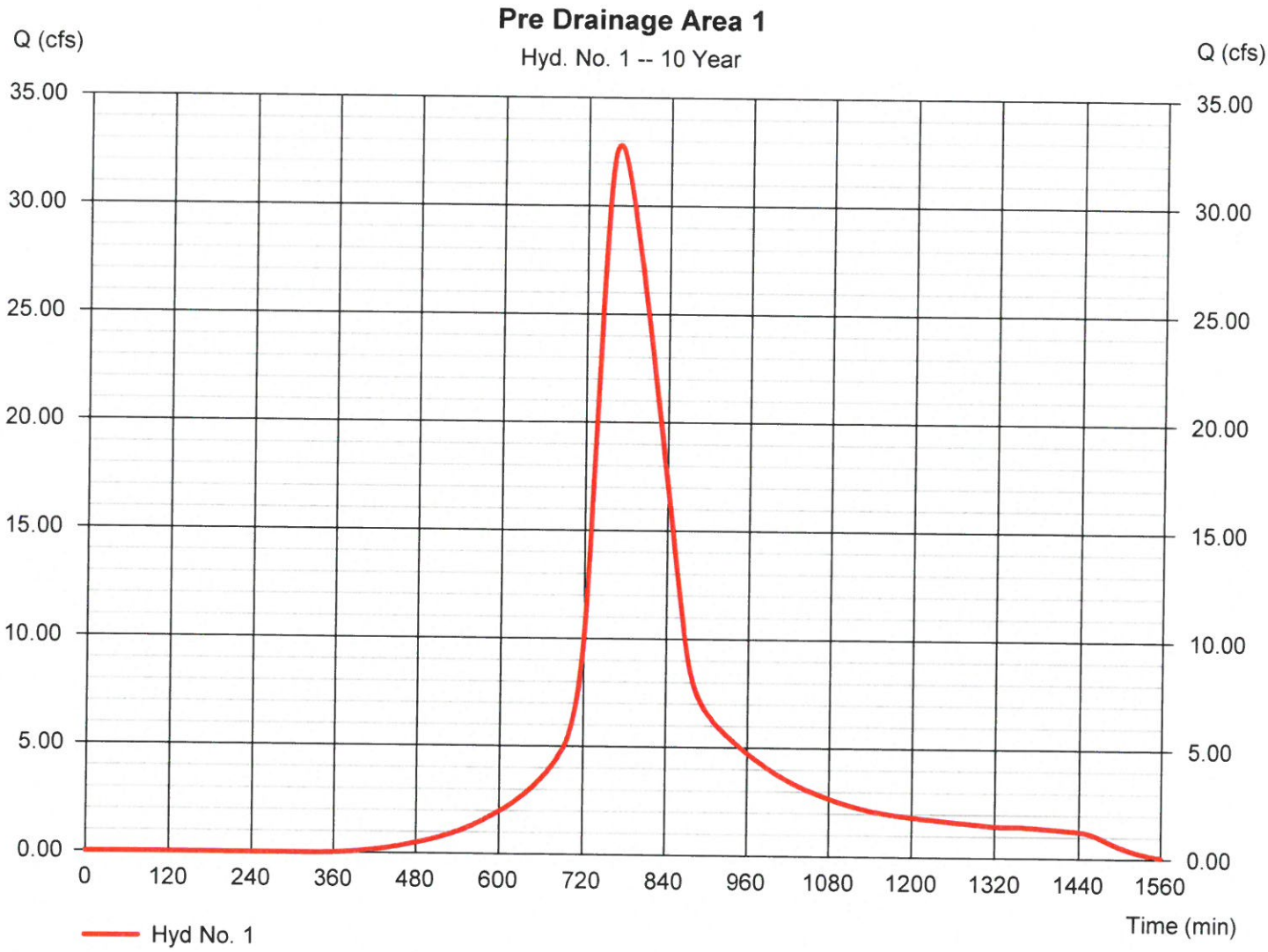
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 1

Pre Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 32.80 cfs
Storm frequency	= 10 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 344,766 cuft
Drainage area	= 20.050 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 6.72 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(1.320 x 77) + (8.680 x 84)] / 20.050



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

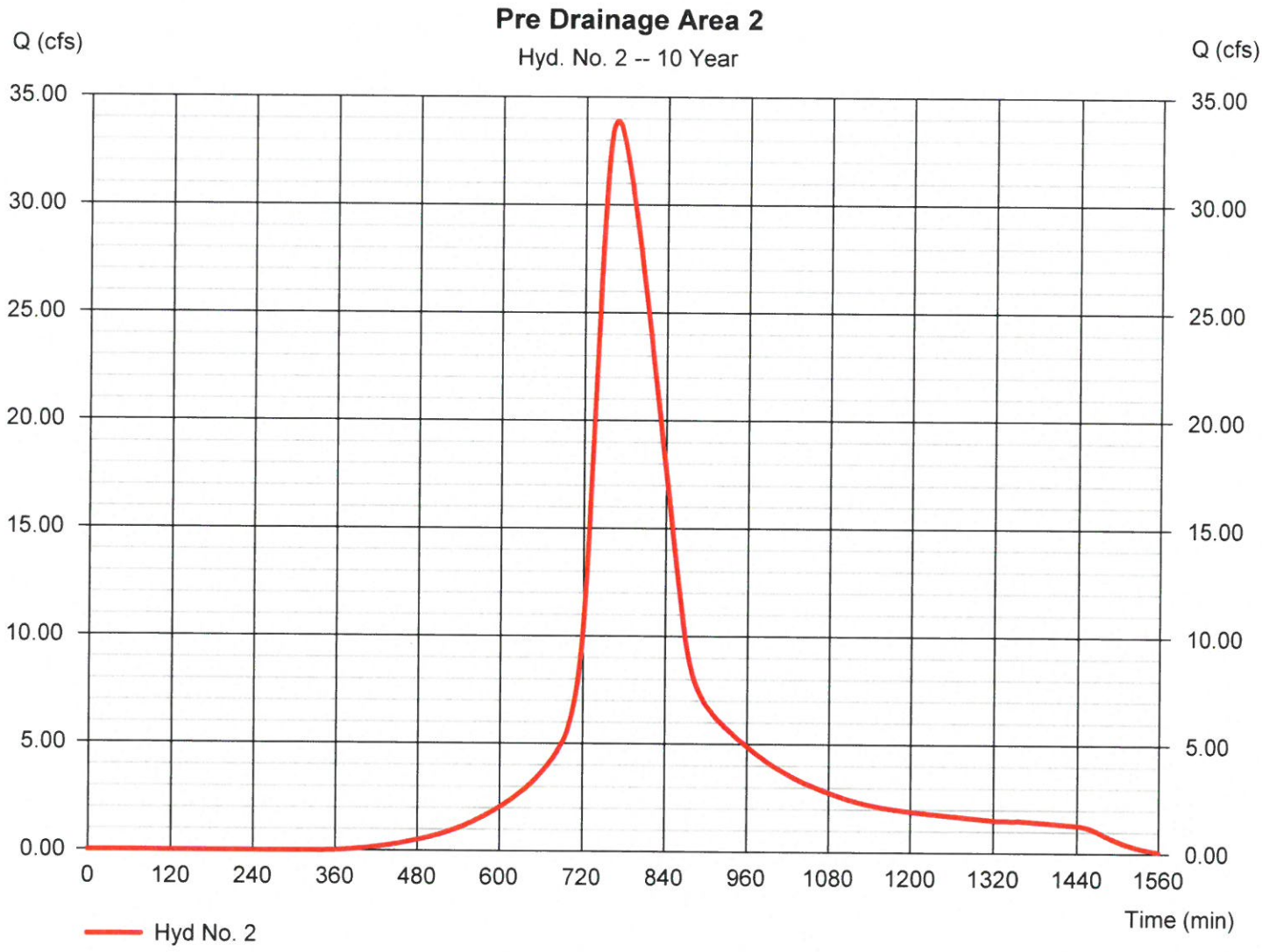
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 — Tuesday, 03 / 23 / 2021

Hyd. No. 2

Pre Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 33.88 cfs
Storm frequency	= 10 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 356,114 cuft
Drainage area	= 20.710 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 6.72 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(28.770 x 77) + (7.980 x 84)] / 20.710



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

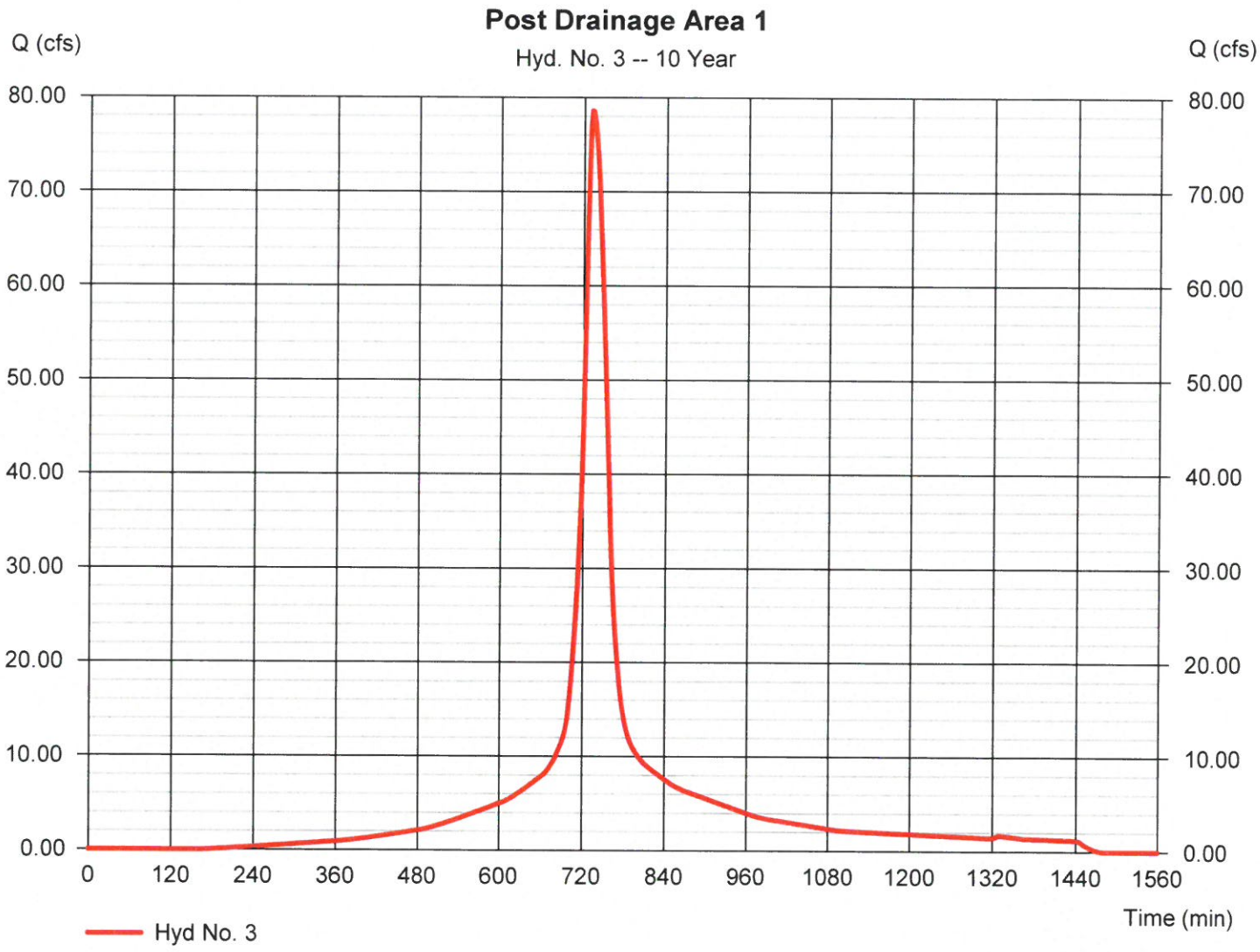
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 3

Post Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 78.58 cfs
Storm frequency	= 10 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 430,125 cuft
Drainage area	= 20.050 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 14.70 min
Total precip.	= 6.72 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

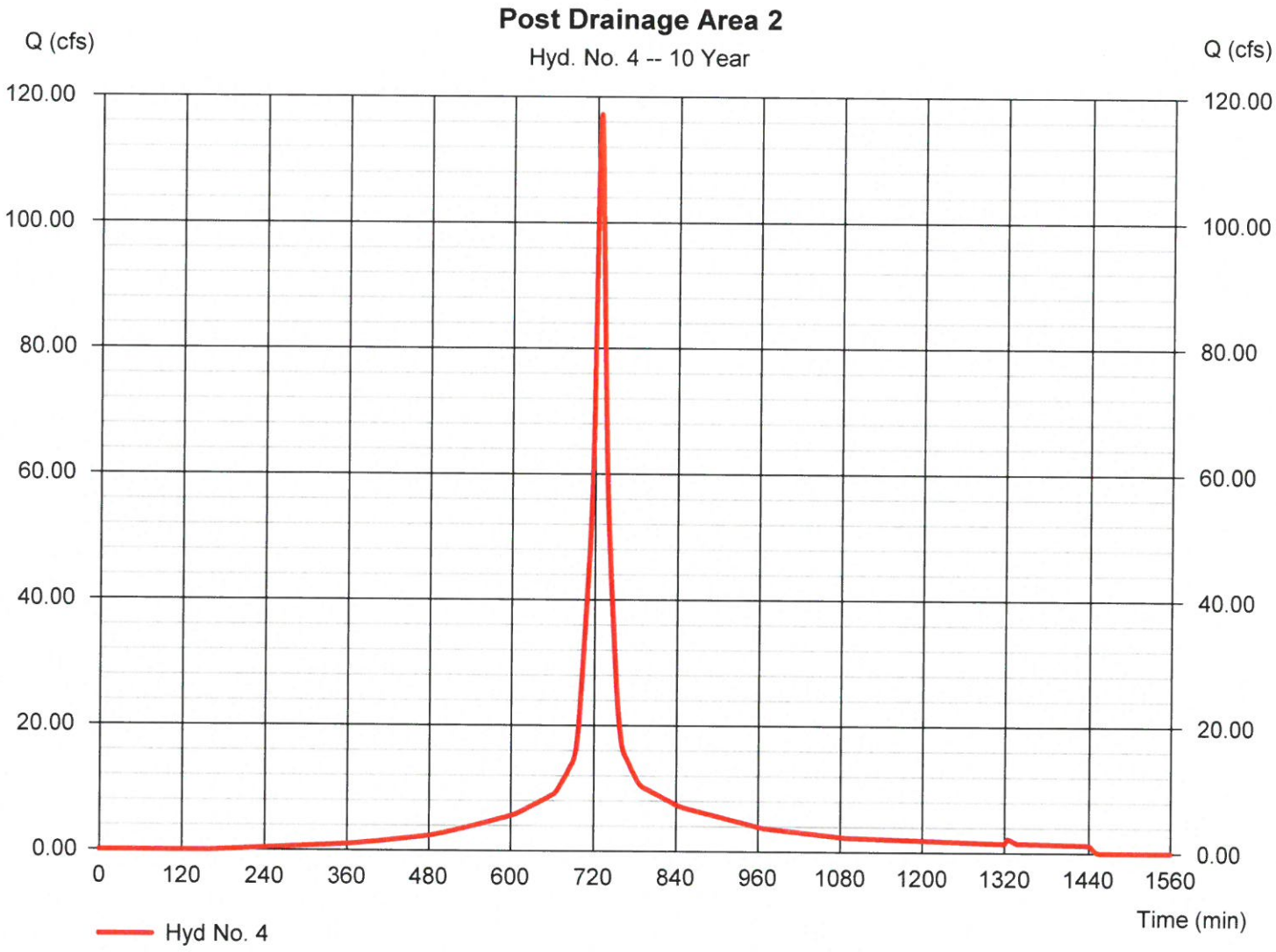
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 4

Post Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 117.19 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 454,381 cuft
Drainage area	= 20.710 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.60 min
Total precip.	= 6.72 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

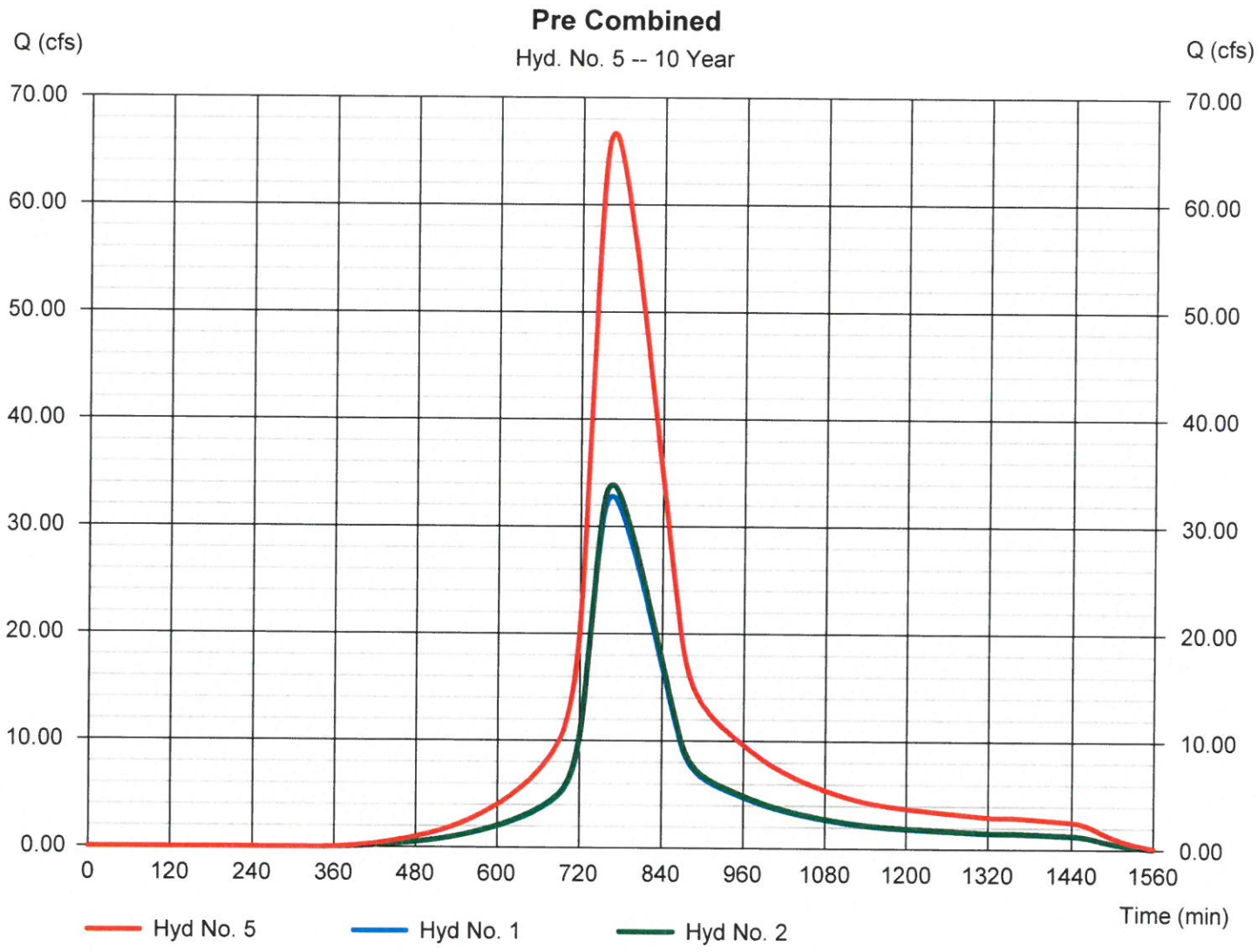
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 5

Pre Combined

Hydrograph type	= Combine	Peak discharge	= 66.67 cfs
Storm frequency	= 10 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 700,880 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

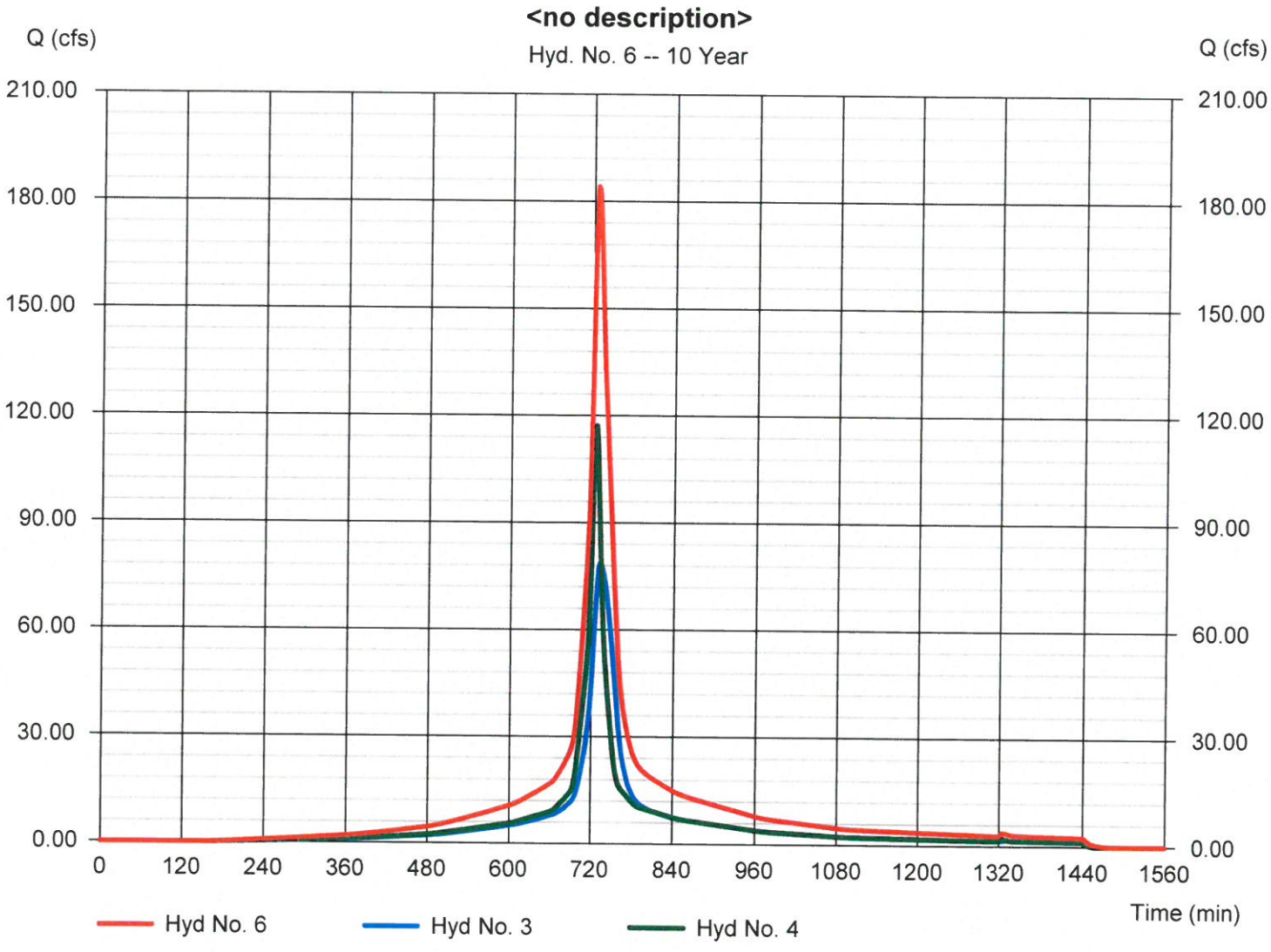
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Combine	Peak discharge	= 184.11 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 884,507 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

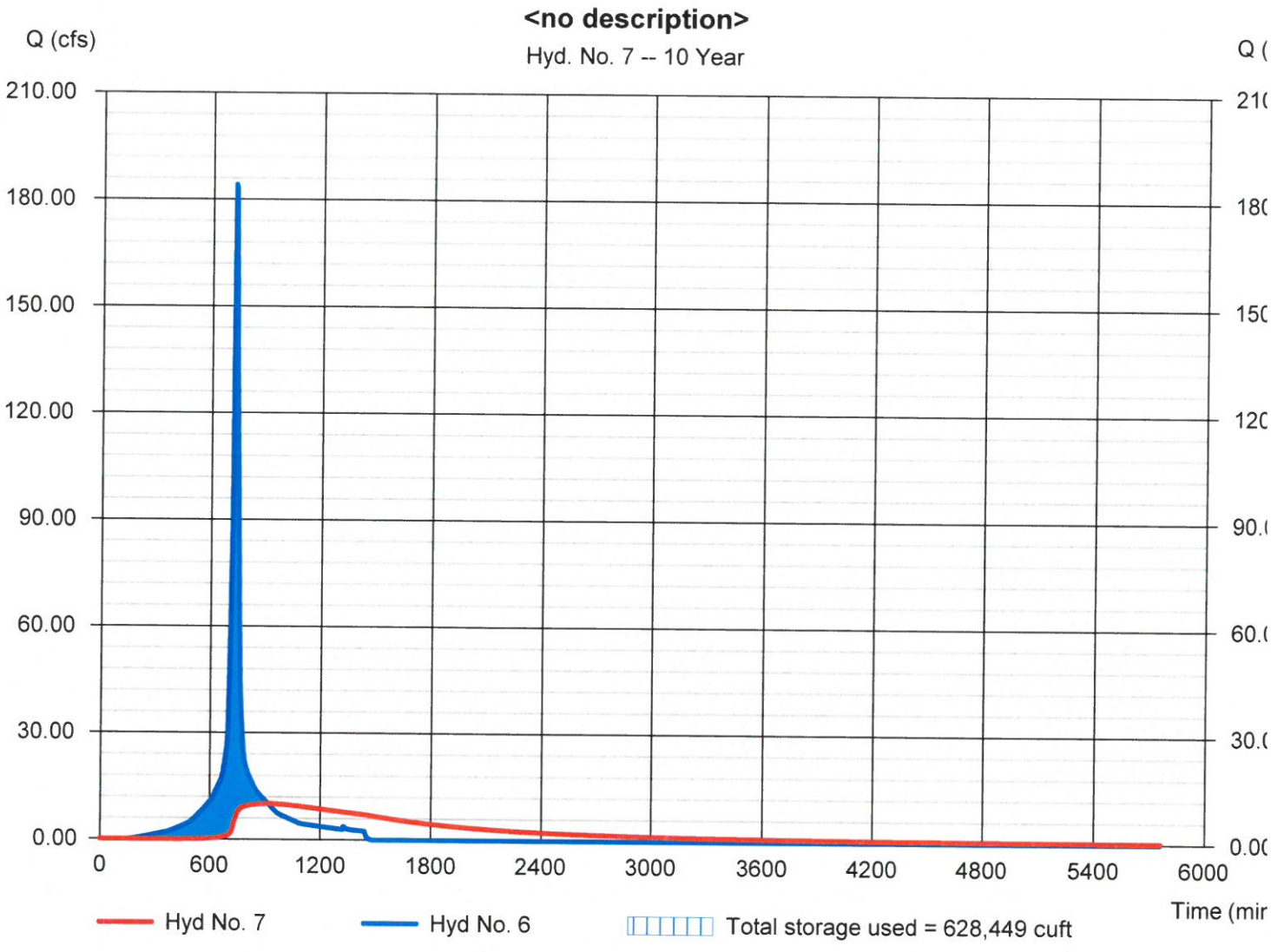
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 7

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 10.08 cfs
Storm frequency	= 10 yrs	Time to peak	= 920 min
Time interval	= 2 min	Hyd. volume	= 794,683 cuft
Inflow hyd. No.	= 6 - <no description>	Max. Elevation	= 3.71 ft
Reservoir name	= EXISTING POND	Max. Storage	= 628,449 cuft

Storage Indication method used.



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v20

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	40.43	2	766	427,047	------	------	------	Pre Drainage Area 1
2	SCS Runoff	41.77	2	766	441,104	------	------	------	Pre Drainage Area 2
3	SCS Runoff	93.83	2	732	518,391	------	------	------	Post Drainage Area 1
4	SCS Runoff	139.74	2	726	547,625	------	------	------	Post Drainage Area 2
5	Combine	82.20	2	766	868,151	1, 2,	------	------	Pre Combined
6	Combine	219.80	2	726	1,066,016	3, 4,	------	------	<no description>
7	Reservoir	12.72	2	908	973,213	6	4.03	749,426	<no description>

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

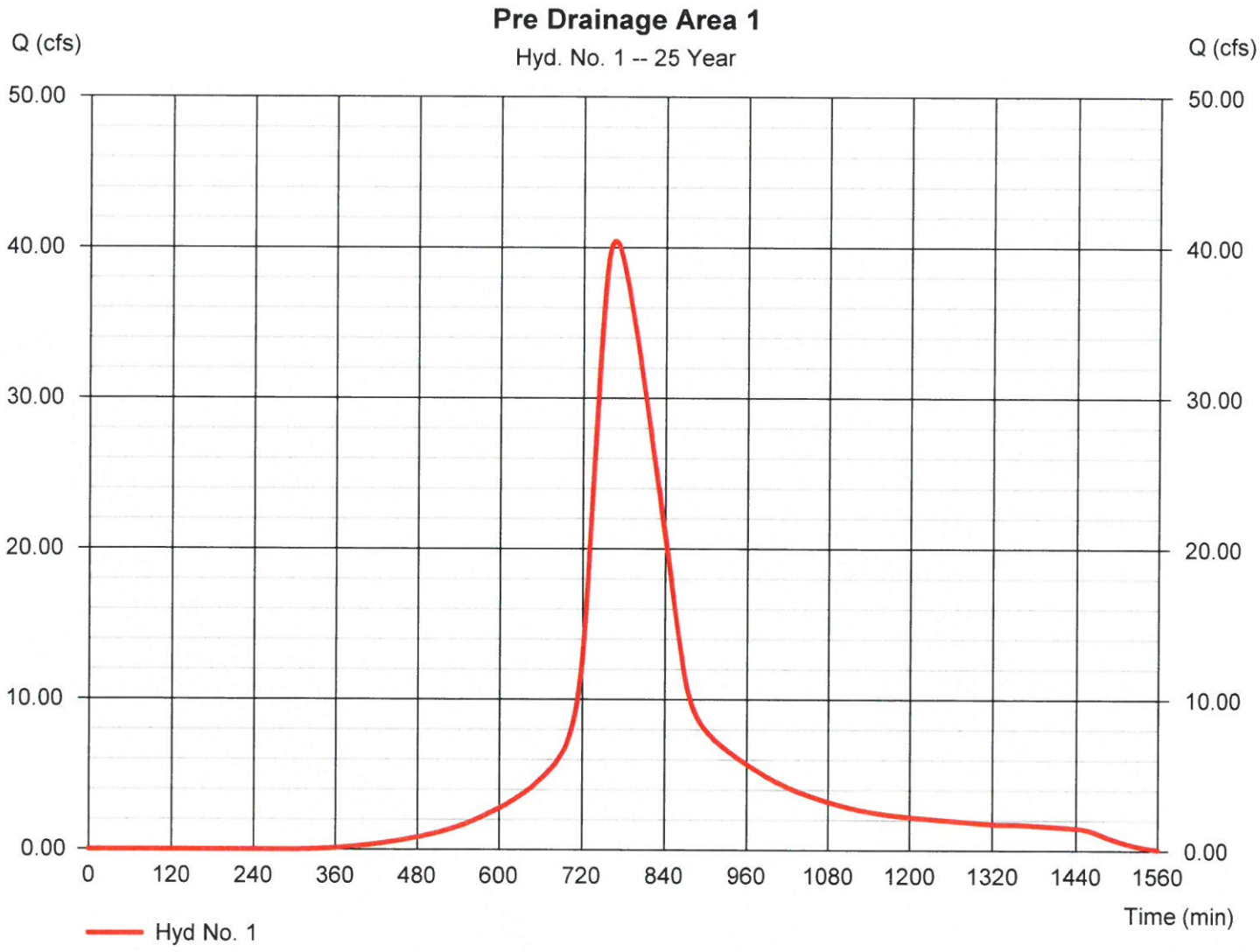
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 — Tuesday, 03 / 23 / 2021

Hyd. No. 1

Pre Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 40.43 cfs
Storm frequency	= 25 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 427,047 cuft
Drainage area	= 20.050 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 7.92 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(1.320 x 77) + (8.680 x 84)] / 20.050



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

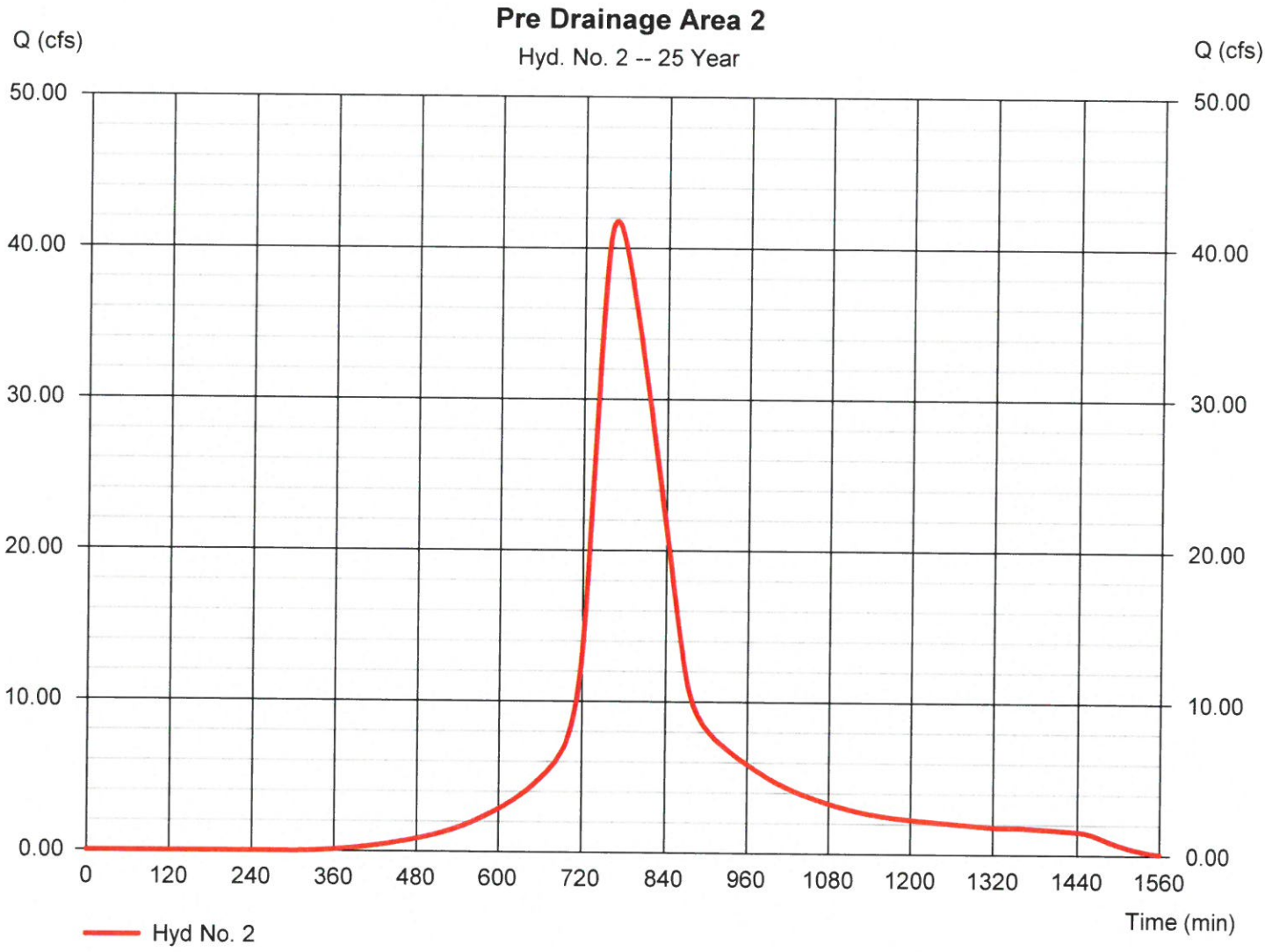
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 2

Pre Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 41.77 cfs
Storm frequency	= 25 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 441,104 cuft
Drainage area	= 20.710 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 7.92 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(28.770 x 77) + (7.980 x 84)] / 20.710



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

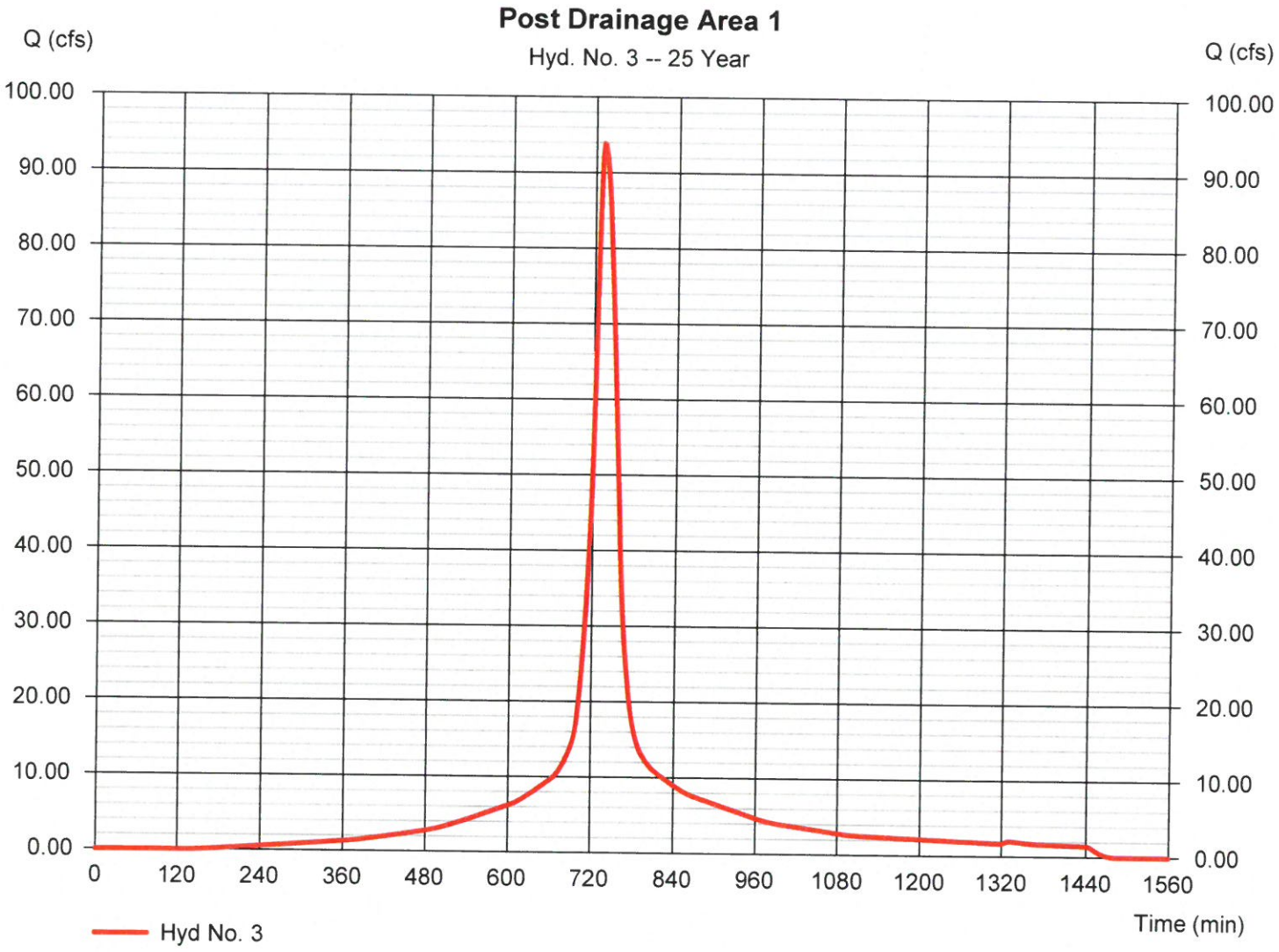
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 3

Post Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 93.83 cfs
Storm frequency	= 25 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 518,391 cuft
Drainage area	= 20.050 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 14.70 min
Total precip.	= 7.92 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

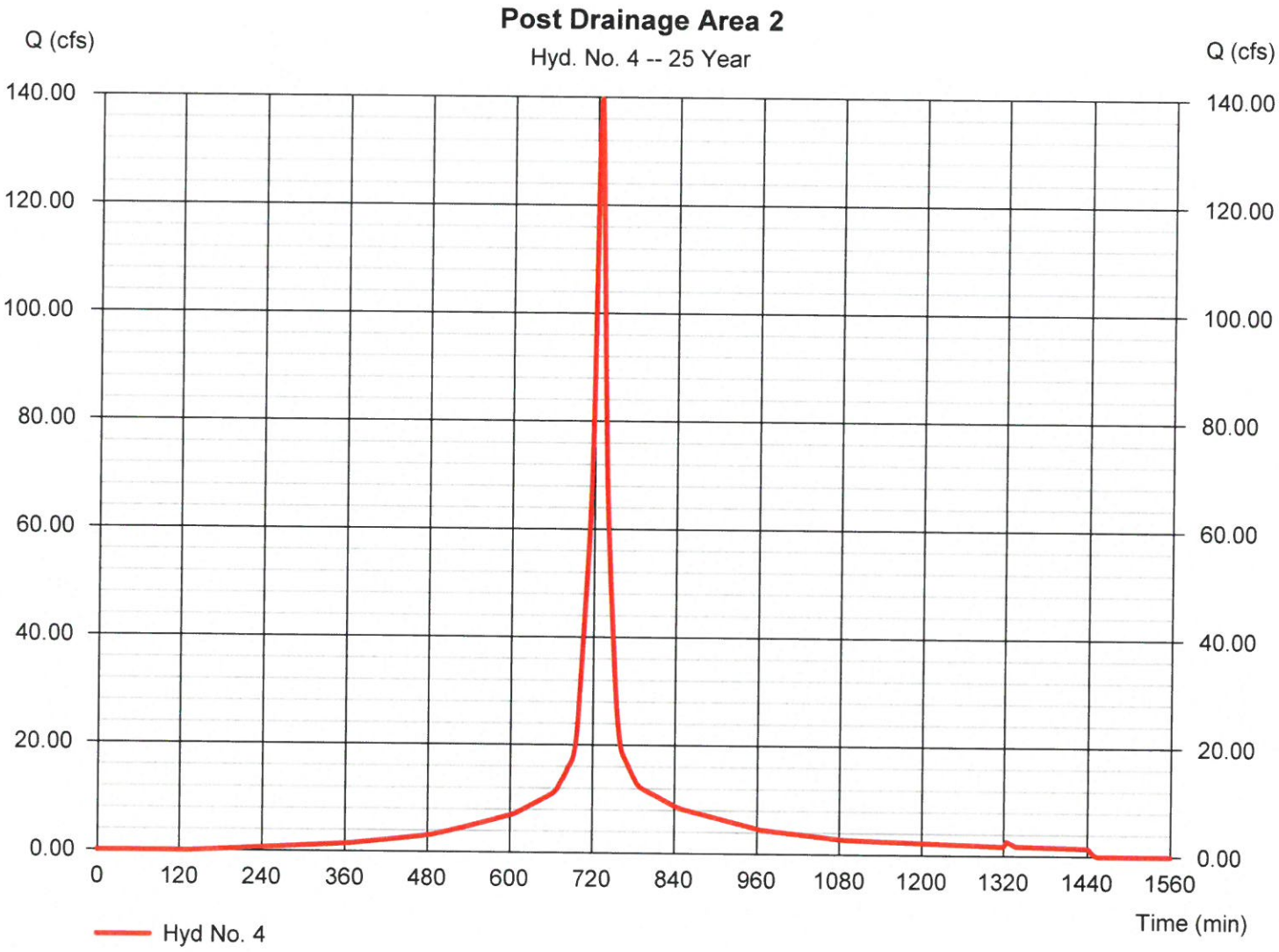
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 4

Post Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 139.74 cfs
Storm frequency	= 25 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 547,625 cuft
Drainage area	= 20.710 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.60 min
Total precip.	= 7.92 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

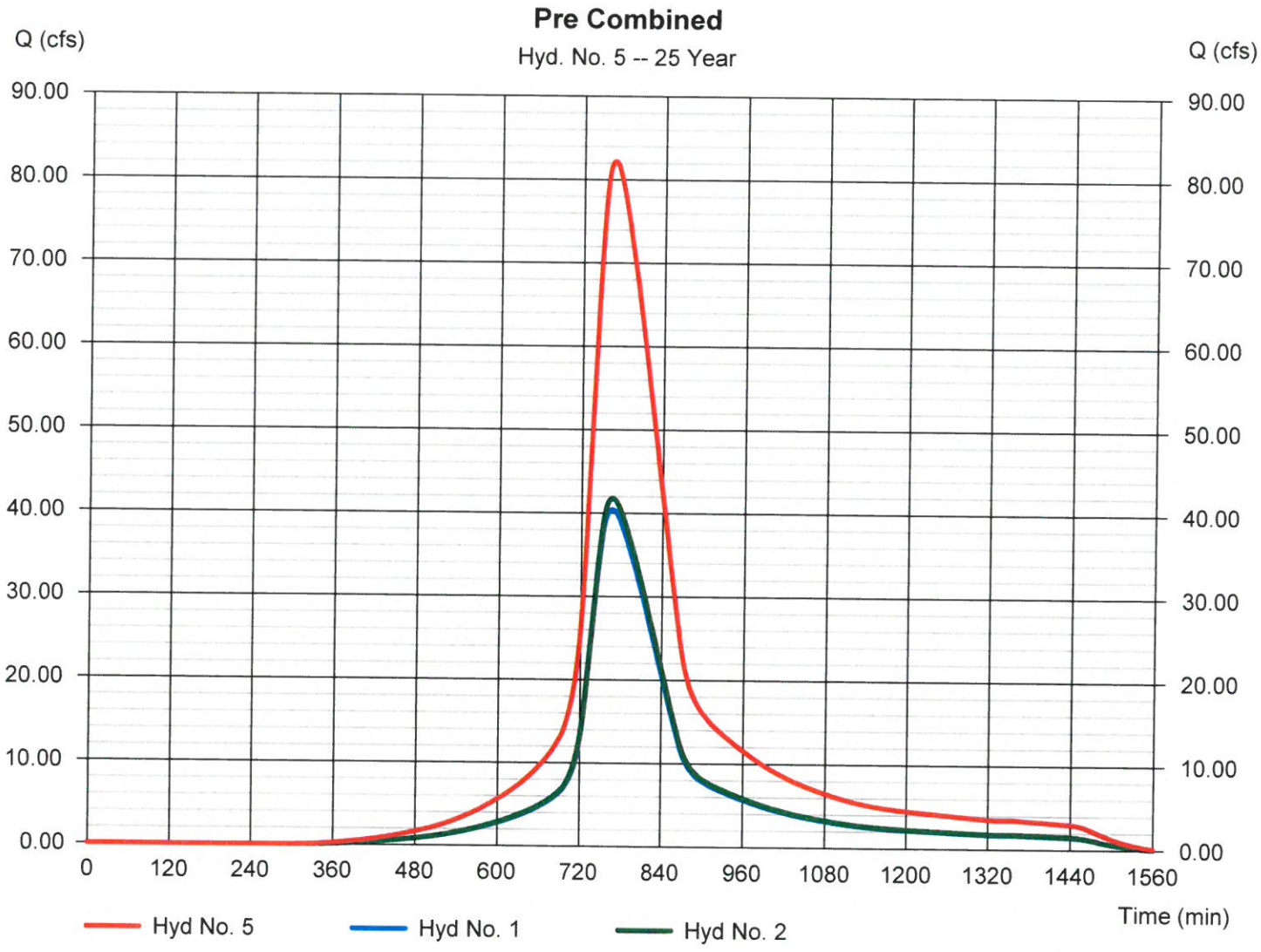
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 5

Pre Combined

Hydrograph type	= Combine	Peak discharge	= 82.20 cfs
Storm frequency	= 25 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 868,151 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

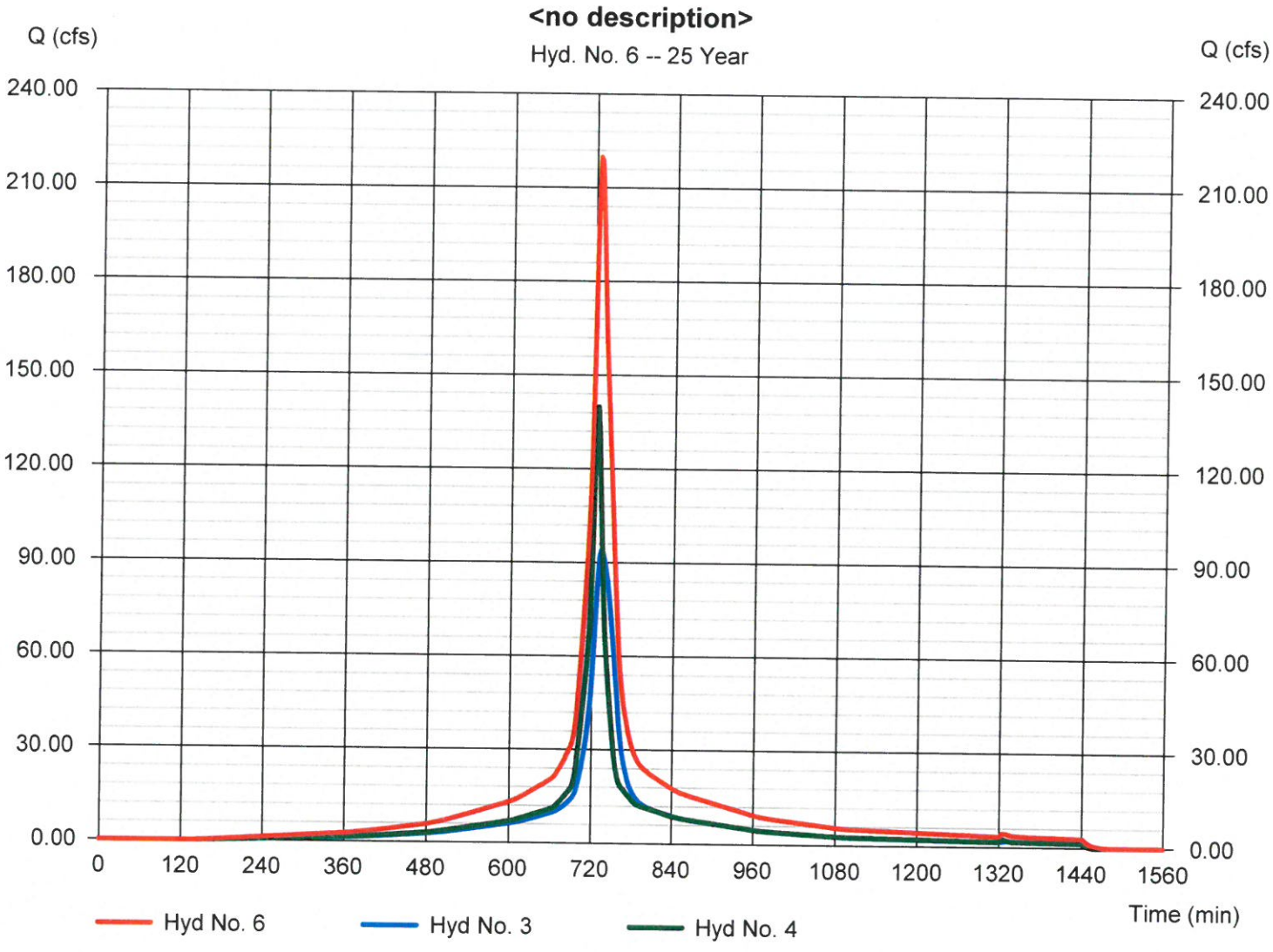
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Combine	Peak discharge	= 219.80 cfs
Storm frequency	= 25 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 1,066,016 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

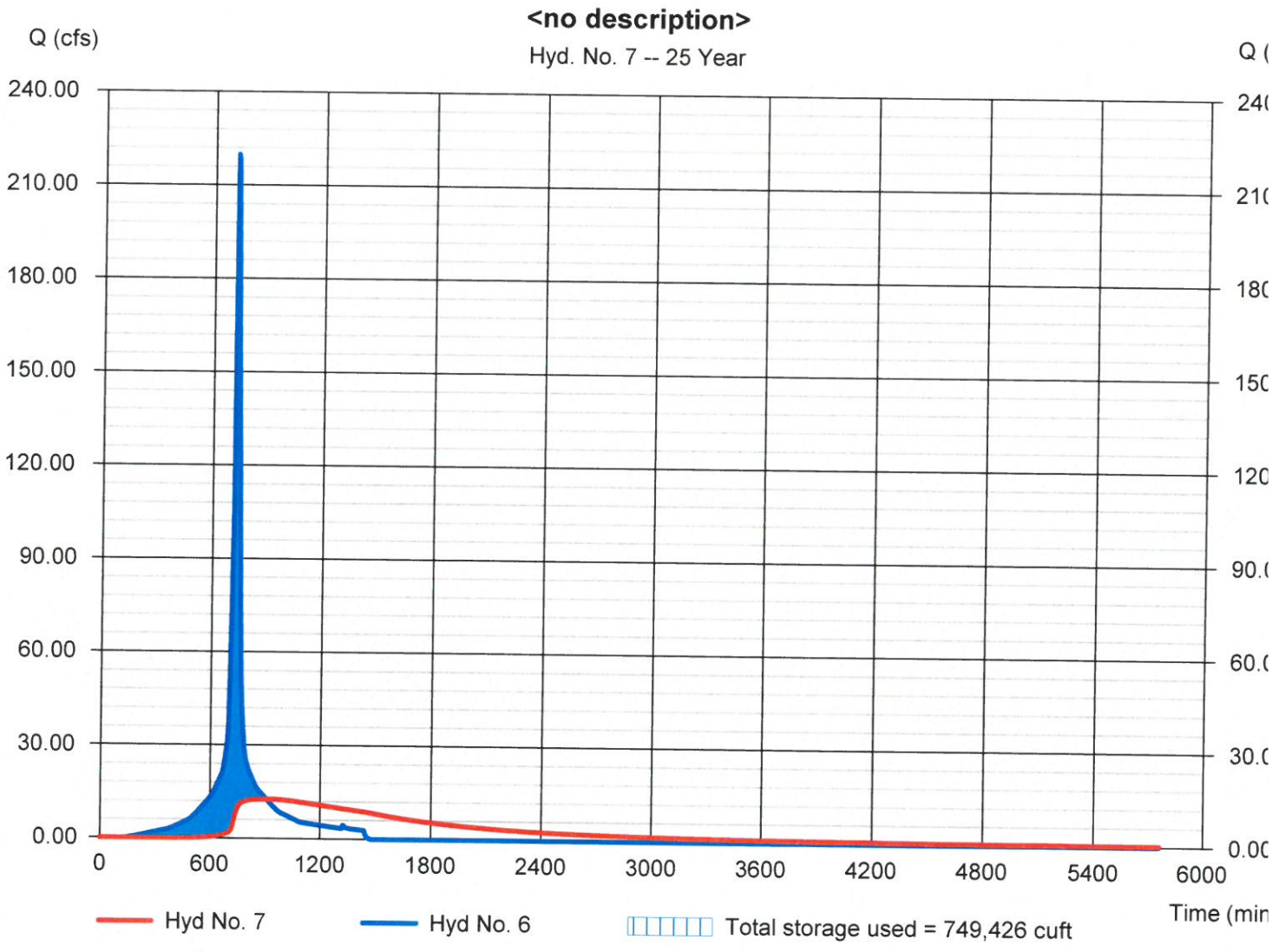
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 7

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 12.72 cfs
Storm frequency	= 25 yrs	Time to peak	= 908 min
Time interval	= 2 min	Hyd. volume	= 973,213 cuft
Inflow hyd. No.	= 6 - <no description>	Max. Elevation	= 4.03 ft
Reservoir name	= EXISTING POND	Max. Storage	= 749,426 cuft

Storage Indication method used.



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v20

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	46.55	2	766	493,622	------	------	------	Pre Drainage Area 1
2	SCS Runoff	48.08	2	766	509,871	------	------	------	Pre Drainage Area 2
3	SCS Runoff	105.98	2	732	589,194	------	------	------	Post Drainage Area 1
4	SCS Runoff	157.70	2	726	622,421	------	------	------	Post Drainage Area 2
5	Combine	94.62	2	766	1,003,492	1, 2,	------	------	Pre Combined
6	Combine	248.23	2	726	1,211,615	3, 4,	------	------	<no description>
7	Reservoir	14.62	2	902	1,116,624	6	4.29	848,043	<no description>

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

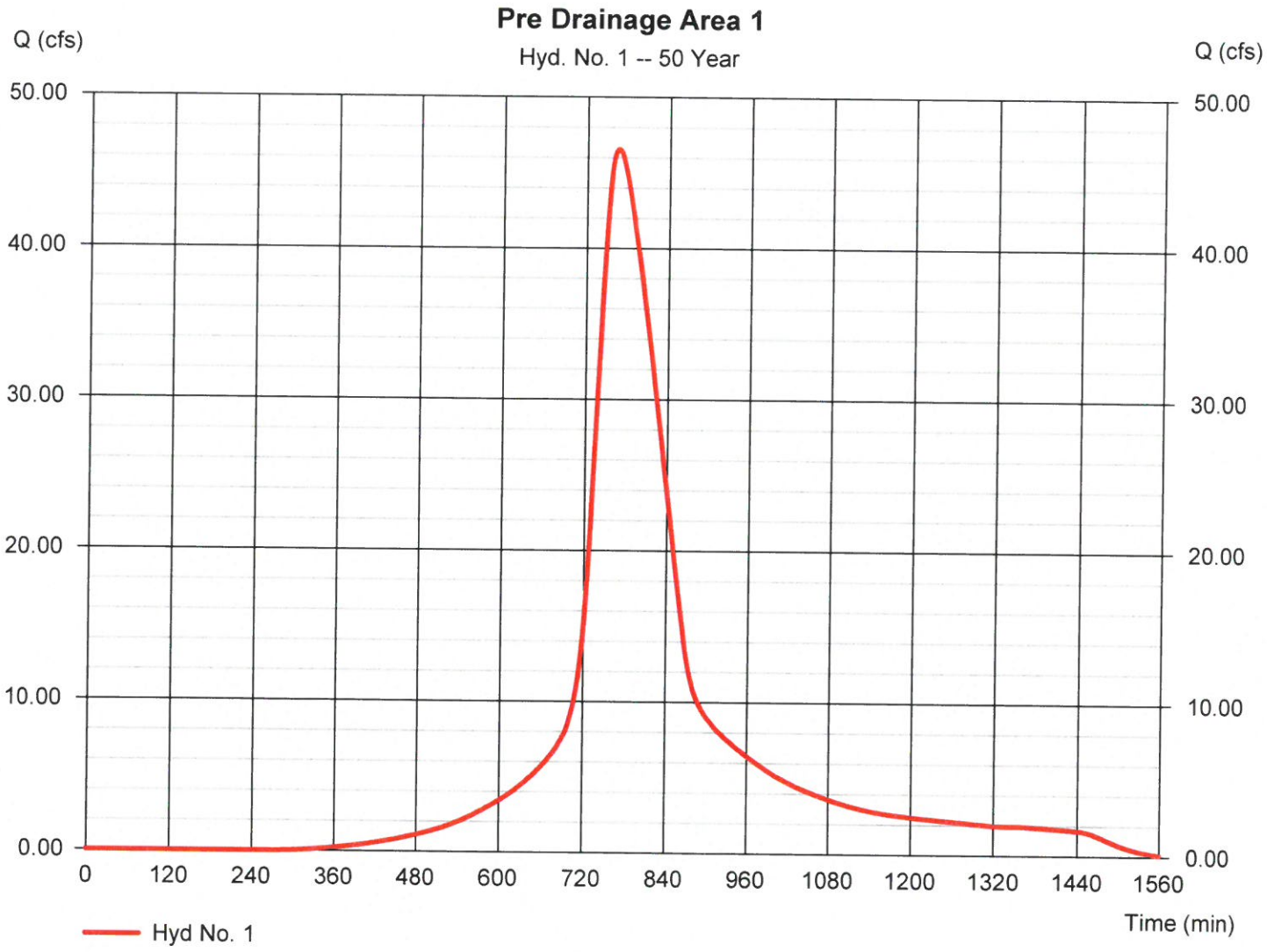
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 1

Pre Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 46.55 cfs
Storm frequency	= 50 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 493,622 cuft
Drainage area	= 20.050 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 8.88 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(1.320 x 77) + (8.680 x 84)] / 20.050



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

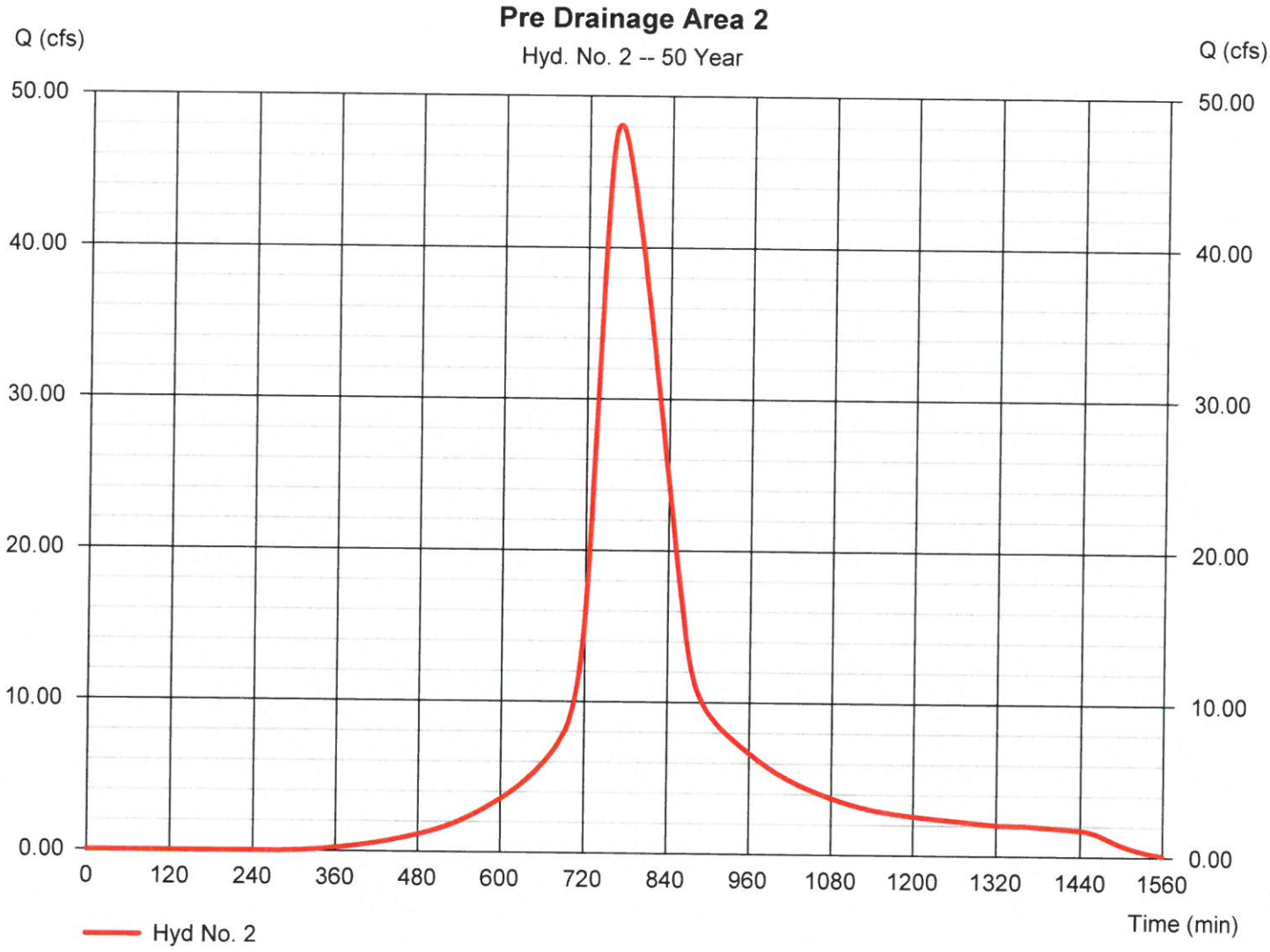
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 — Tuesday, 03 / 23 / 2021

Hyd. No. 2

Pre Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 48.08 cfs
Storm frequency	= 50 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 509,871 cuft
Drainage area	= 20.710 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 8.88 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(28.770 x 77) + (7.980 x 84)] / 20.710



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

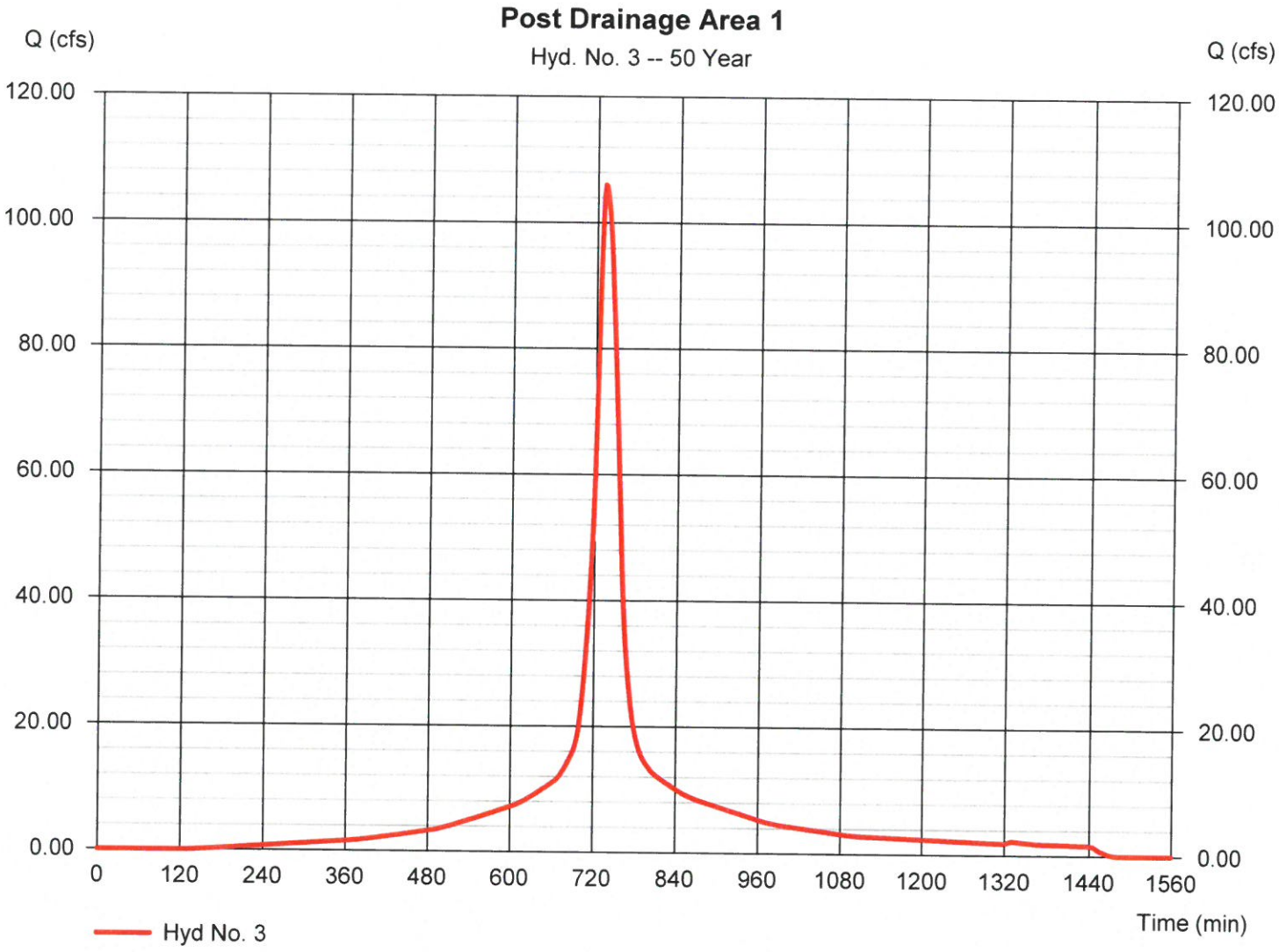
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 3

Post Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 105.98 cfs
Storm frequency	= 50 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 589,194 cuft
Drainage area	= 20.050 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 14.70 min
Total precip.	= 8.88 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

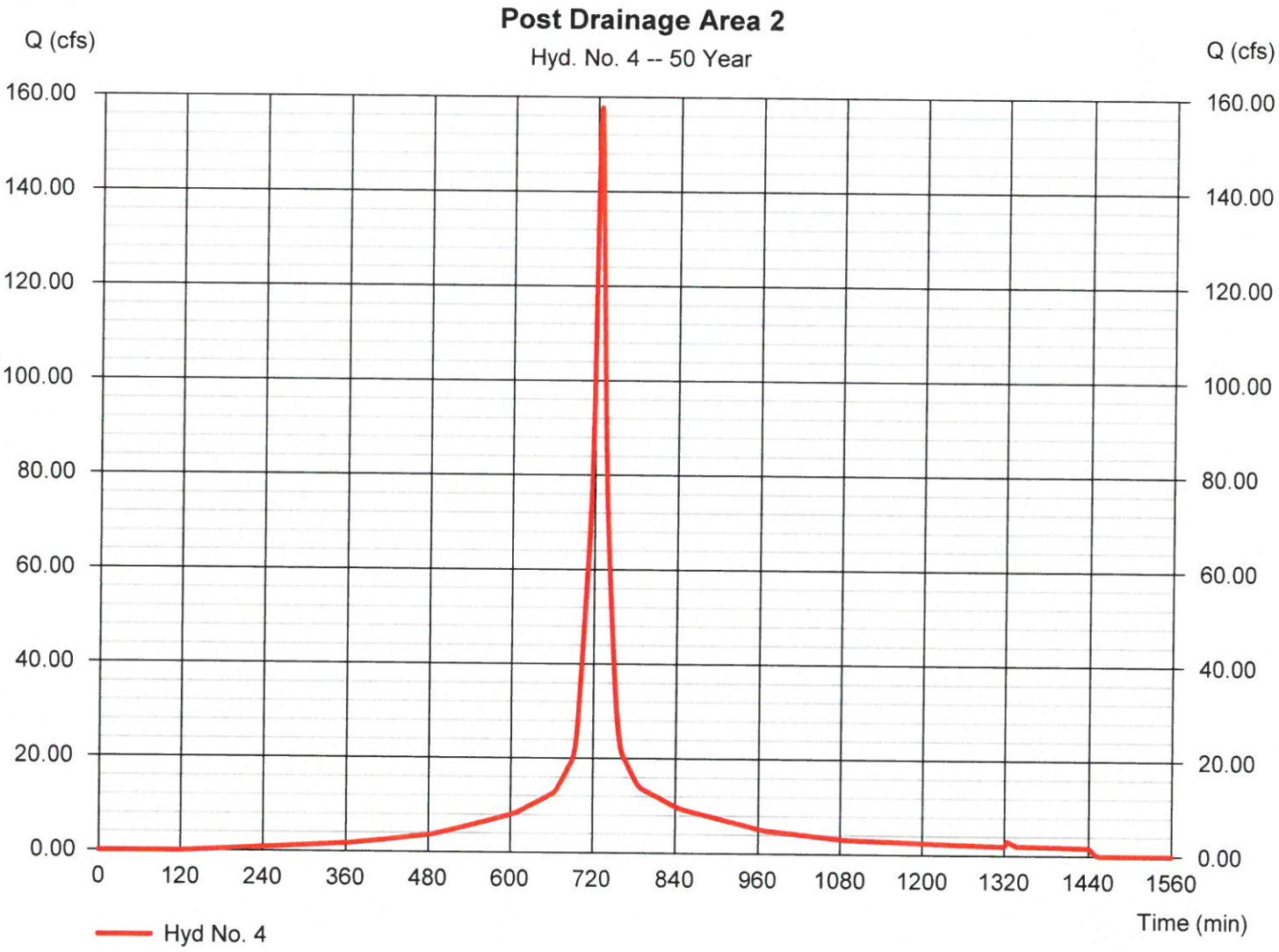
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 4

Post Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 157.70 cfs
Storm frequency	= 50 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 622,421 cuft
Drainage area	= 20.710 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.60 min
Total precip.	= 8.88 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

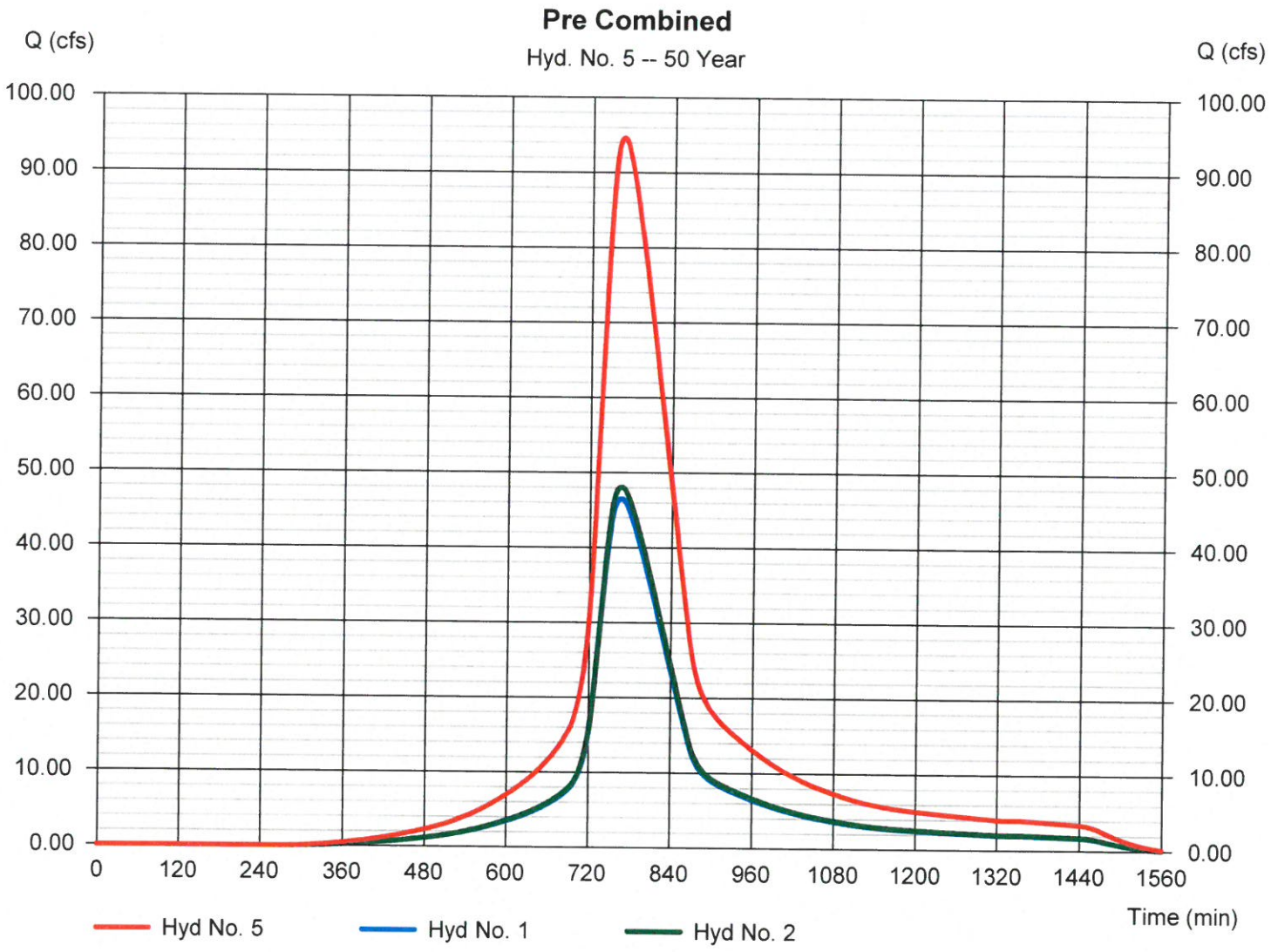
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 5

Pre Combined

Hydrograph type	= Combine	Peak discharge	= 94.62 cfs
Storm frequency	= 50 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 1,003,492 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

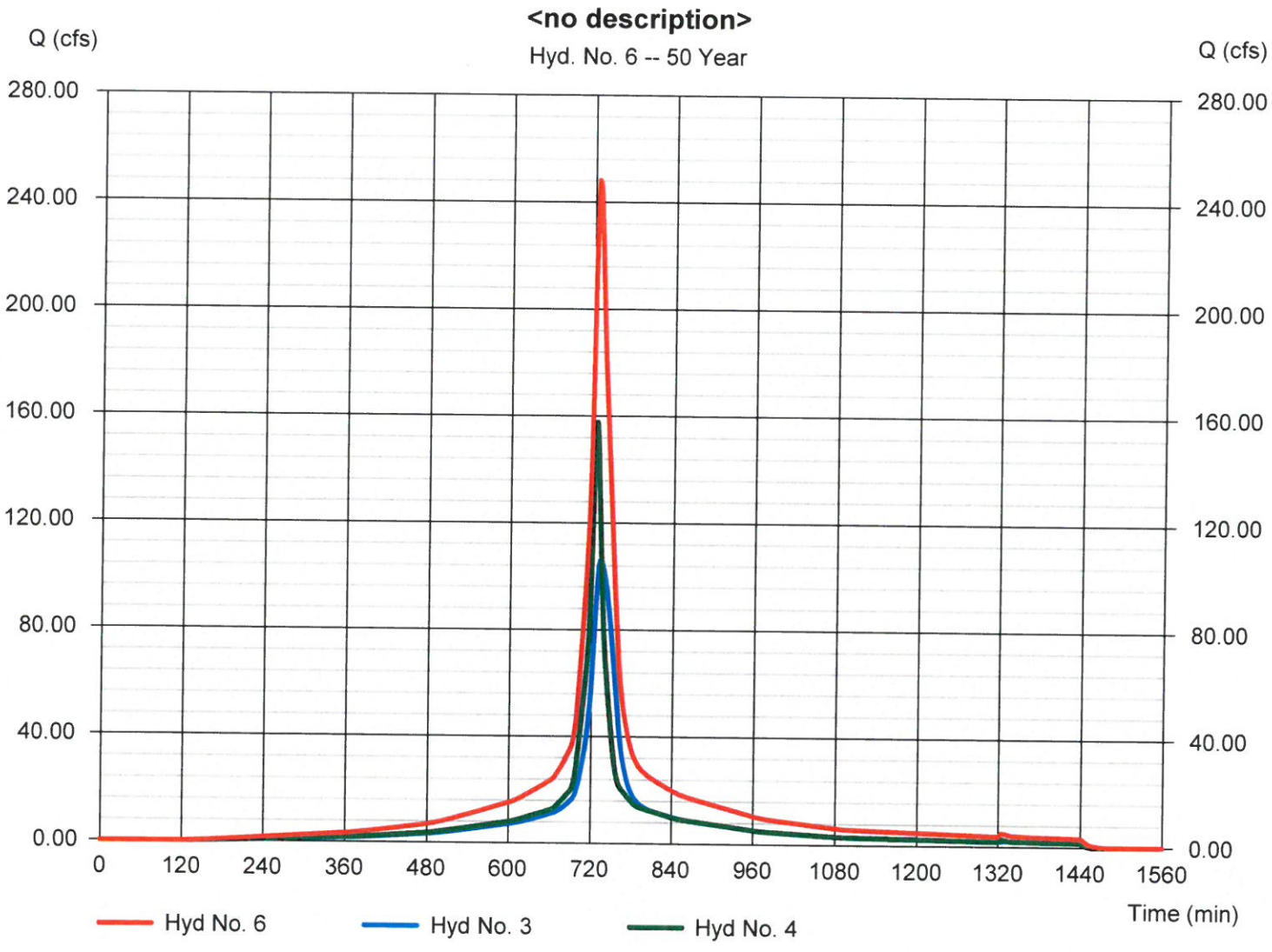
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Combine	Peak discharge	= 248.23 cfs
Storm frequency	= 50 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 1,211,615 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

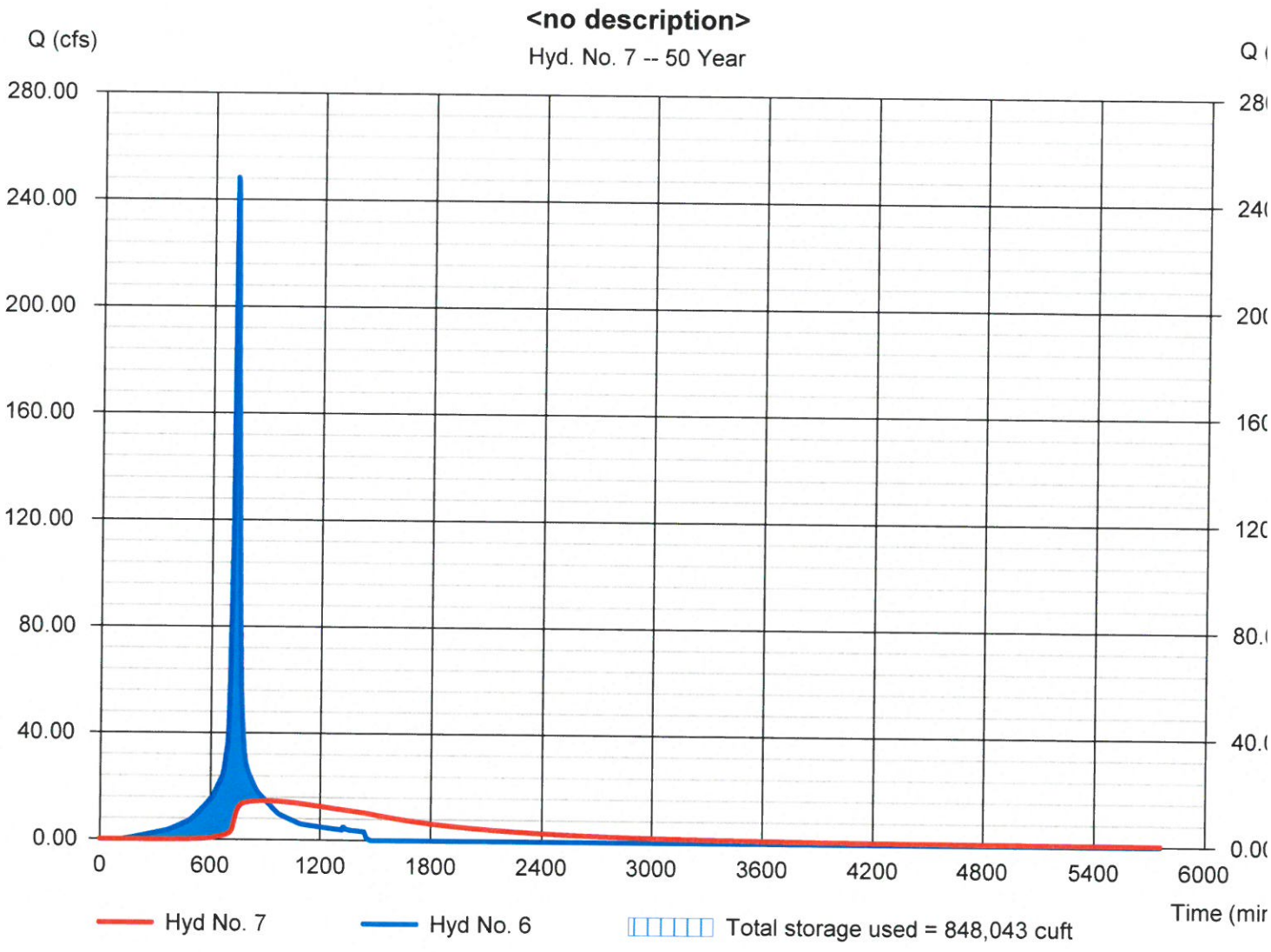
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 7

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 14.62 cfs
Storm frequency	= 50 yrs	Time to peak	= 902 min
Time interval	= 2 min	Hyd. volume	= 1,116,624 cuft
Inflow hyd. No.	= 6 - <no description>	Max. Elevation	= 4.29 ft
Reservoir name	= EXISTING POND	Max. Storage	= 848,043 cuft

Storage Indication method used.



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v20

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	52.65	2	766	560,681	------	------	------	Pre Drainage Area 1
2	SCS Runoff	54.38	2	766	579,137	------	------	------	Pre Drainage Area 2
3	SCS Runoff	118.08	2	732	660,117	------	------	------	Post Drainage Area 1
4	SCS Runoff	175.61	2	726	697,343	------	------	------	Post Drainage Area 2
5	Combine	107.03	2	766	1,139,818	1, 2,	------	------	Pre Combined
6	Combine	276.56	2	726	1,357,459	3, 4,	------	------	<no description>
7	Reservoir	16.18	2	904	1,260,330	6	4.55	949,247	<no description>

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

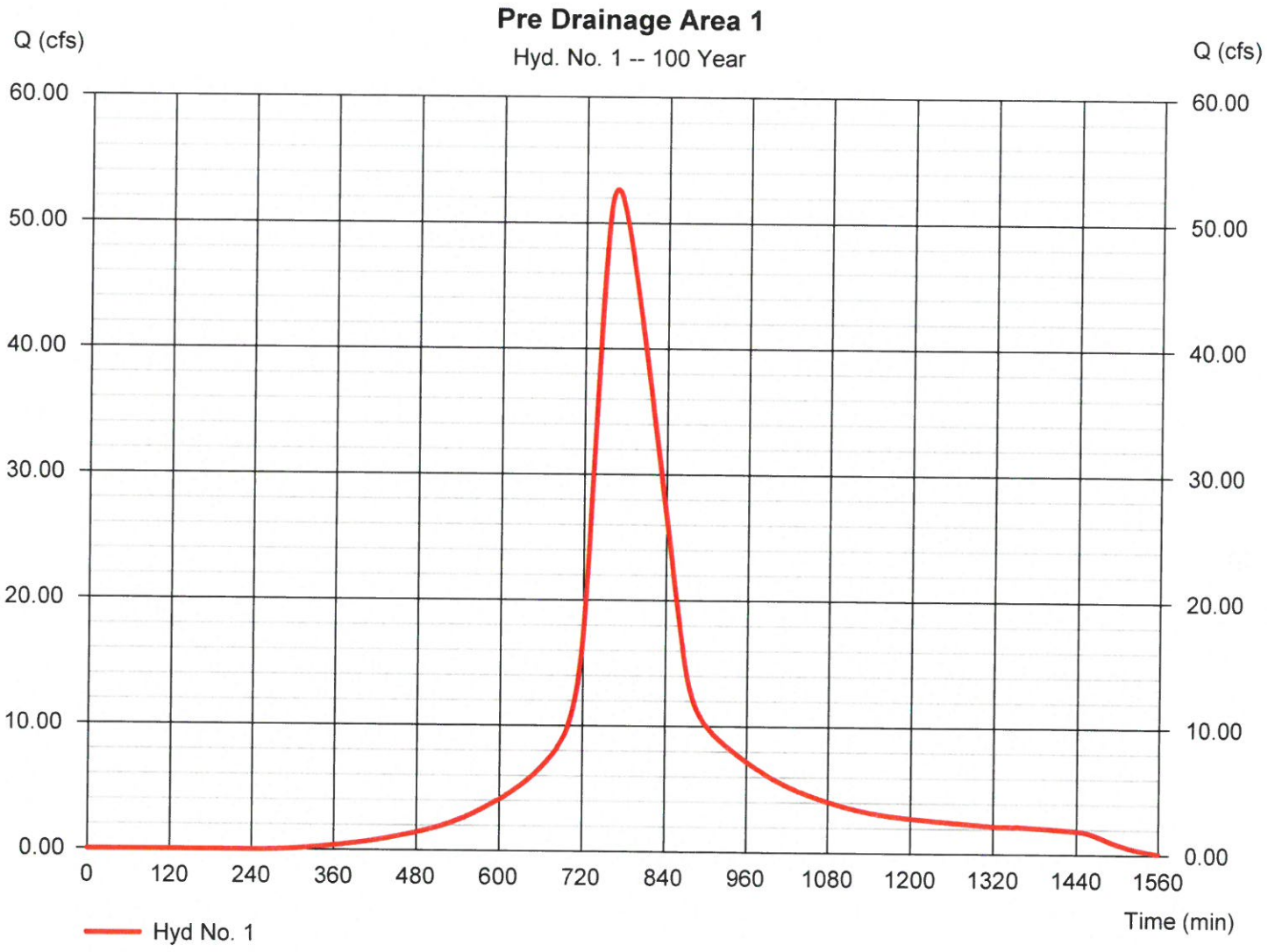
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 1

Pre Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 52.65 cfs
Storm frequency	= 100 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 560,681 cuft
Drainage area	= 20.050 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 9.84 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(1.320 x 77) + (8.680 x 84)] / 20.050



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

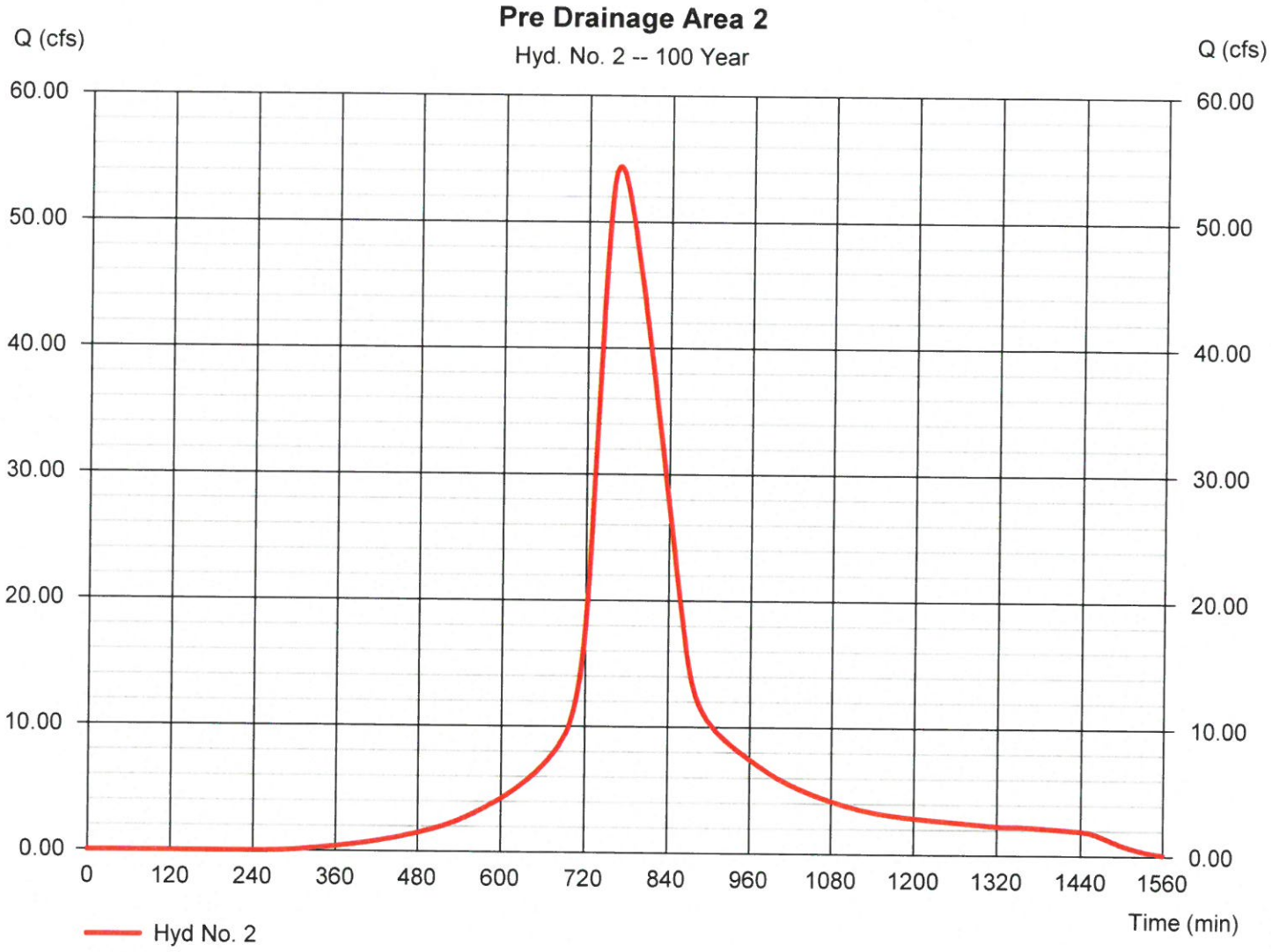
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 2

Pre Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 54.38 cfs
Storm frequency	= 100 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 579,137 cuft
Drainage area	= 20.710 ac	Curve number	= 83*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 60.00 min
Total precip.	= 9.84 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(28.770 x 77) + (7.980 x 84)] / 20.710



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

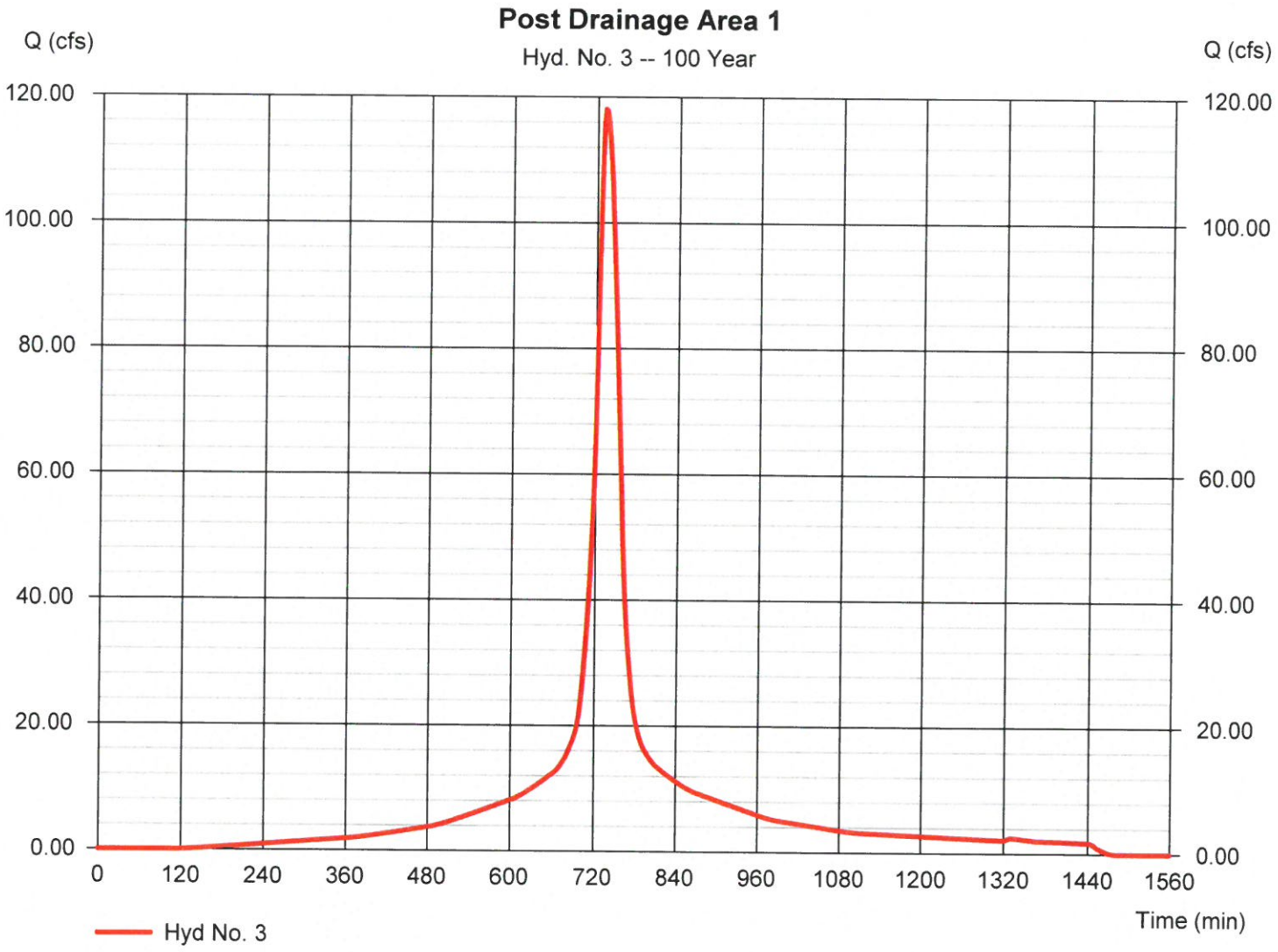
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 3

Post Drainage Area 1

Hydrograph type	= SCS Runoff	Peak discharge	= 118.08 cfs
Storm frequency	= 100 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 660,117 cuft
Drainage area	= 20.050 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 14.70 min
Total precip.	= 9.84 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

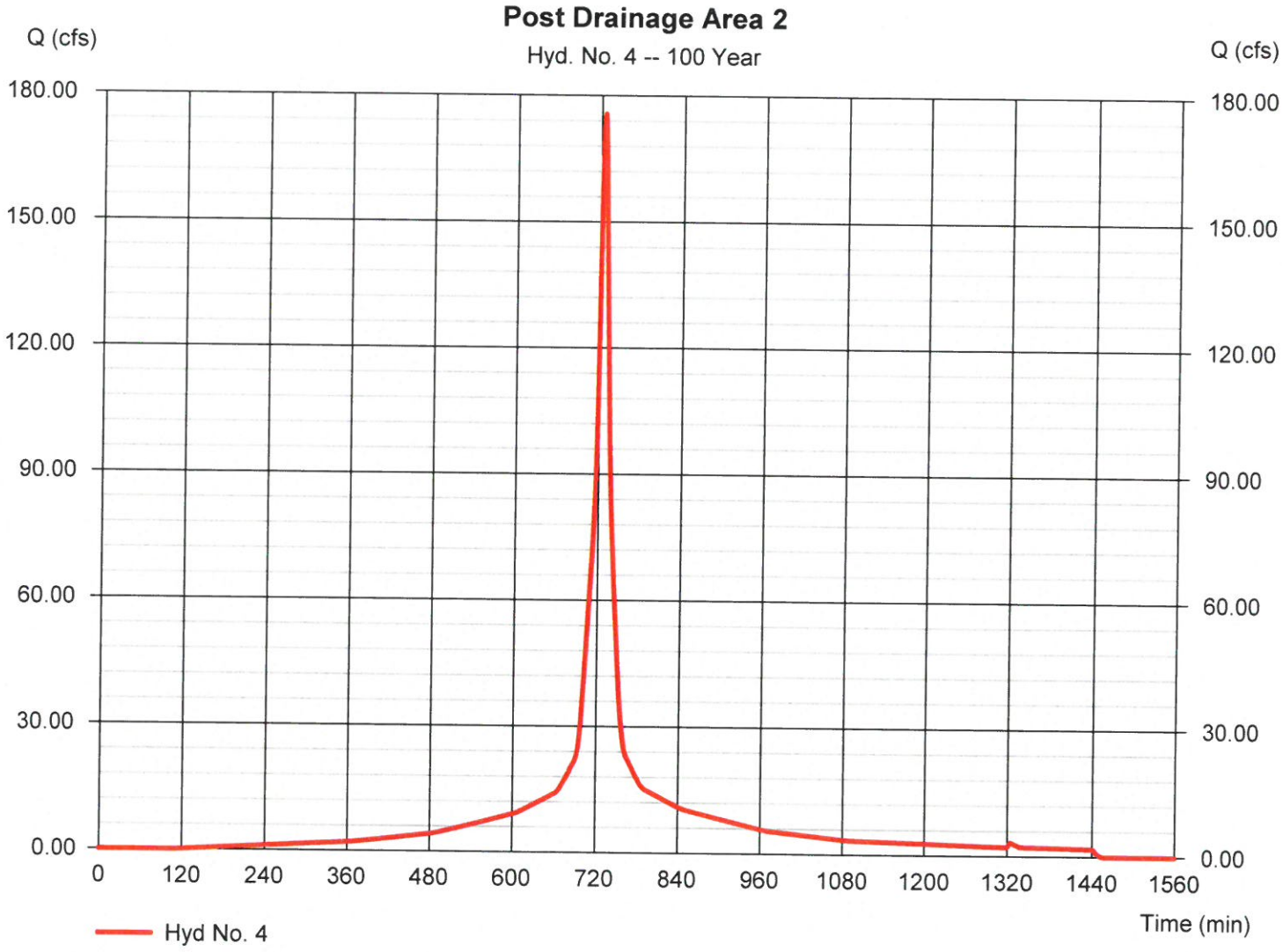
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 4

Post Drainage Area 2

Hydrograph type	= SCS Runoff	Peak discharge	= 175.61 cfs
Storm frequency	= 100 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 697,343 cuft
Drainage area	= 20.710 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.60 min
Total precip.	= 9.84 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

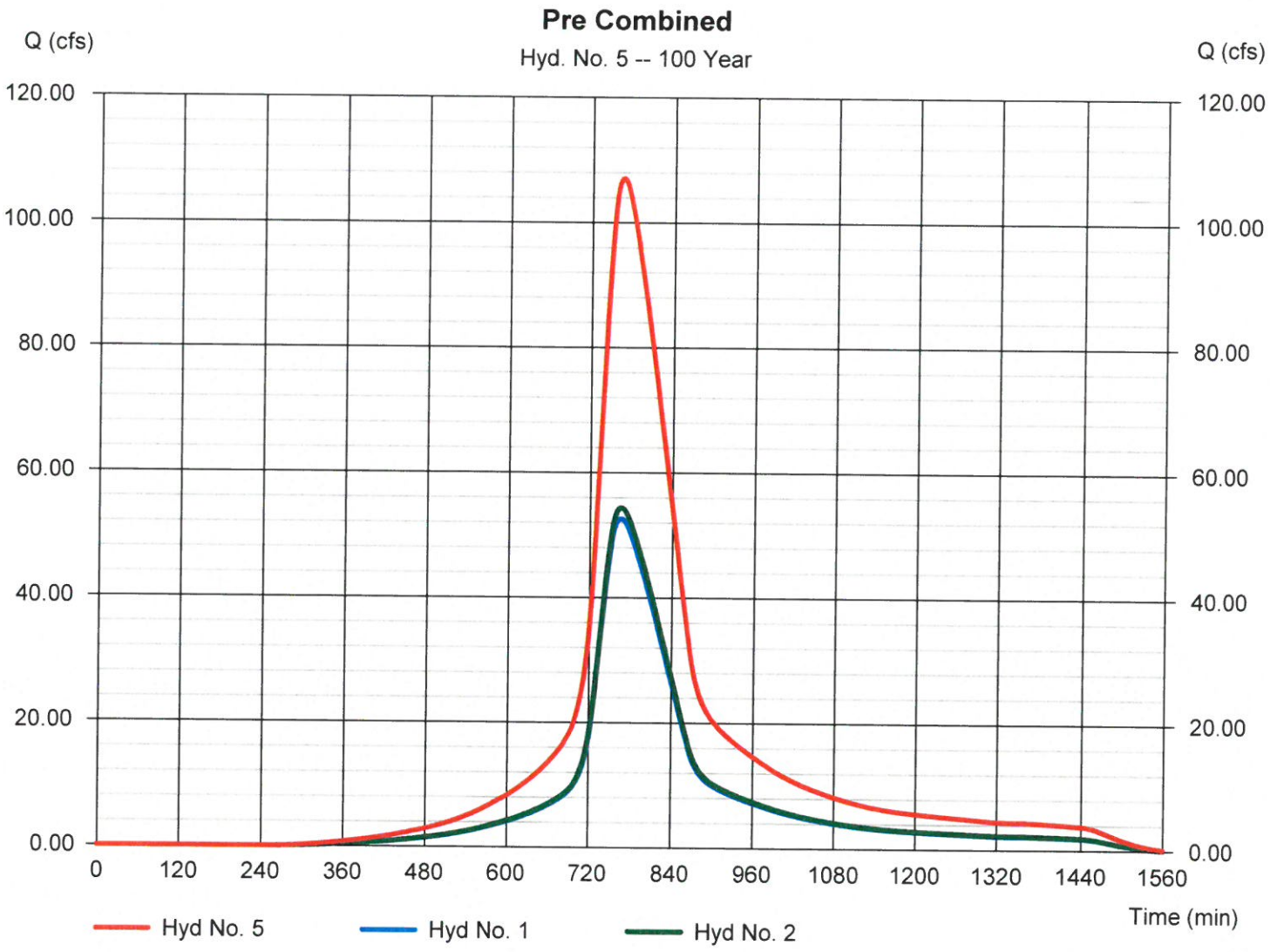
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 5

Pre Combined

Hydrograph type	= Combine	Peak discharge	= 107.03 cfs
Storm frequency	= 100 yrs	Time to peak	= 766 min
Time interval	= 2 min	Hyd. volume	= 1,139,818 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

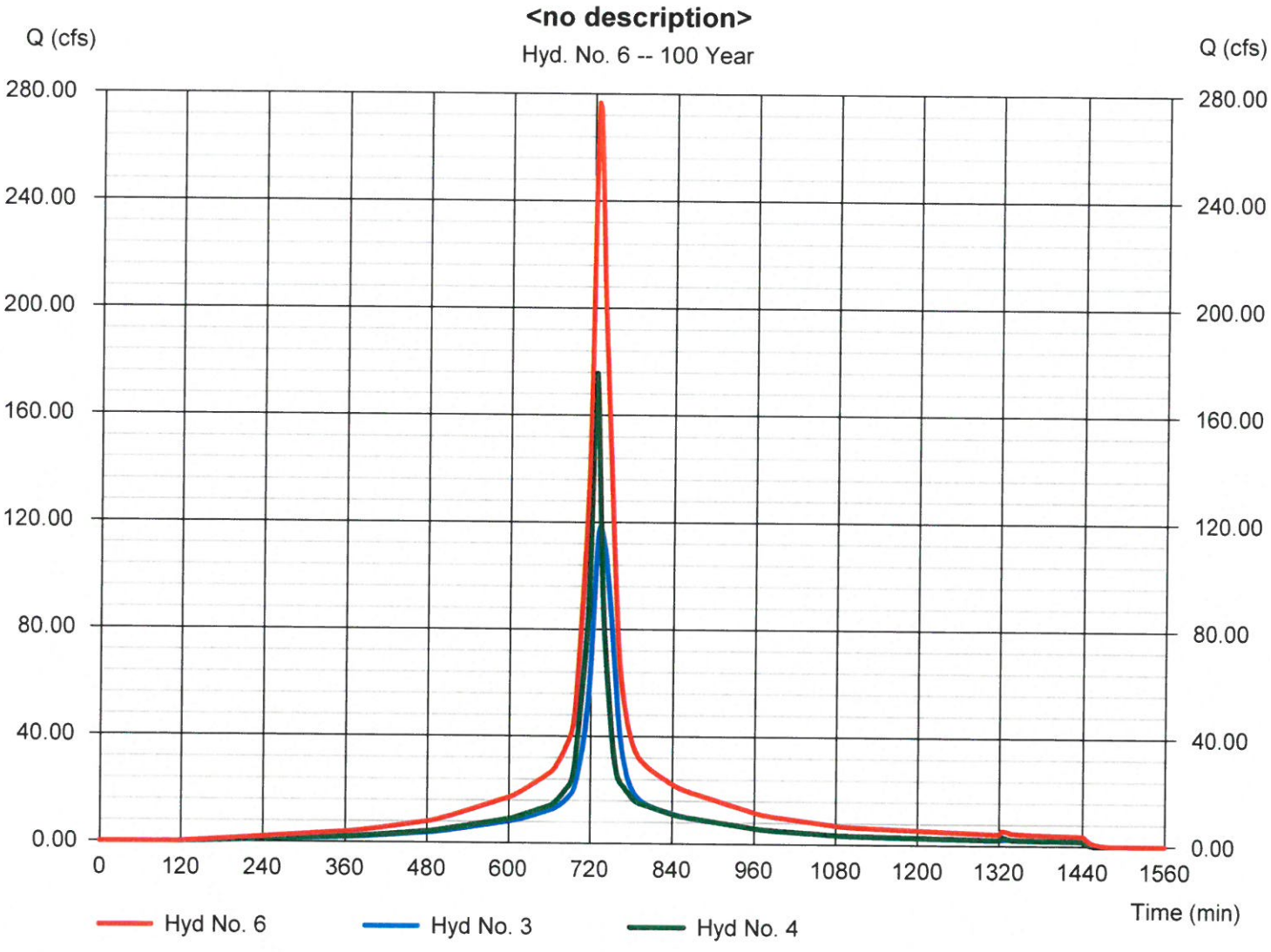
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Combine	Peak discharge	= 276.56 cfs
Storm frequency	= 100 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 1,357,459 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 40.760 ac



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydrograph Report

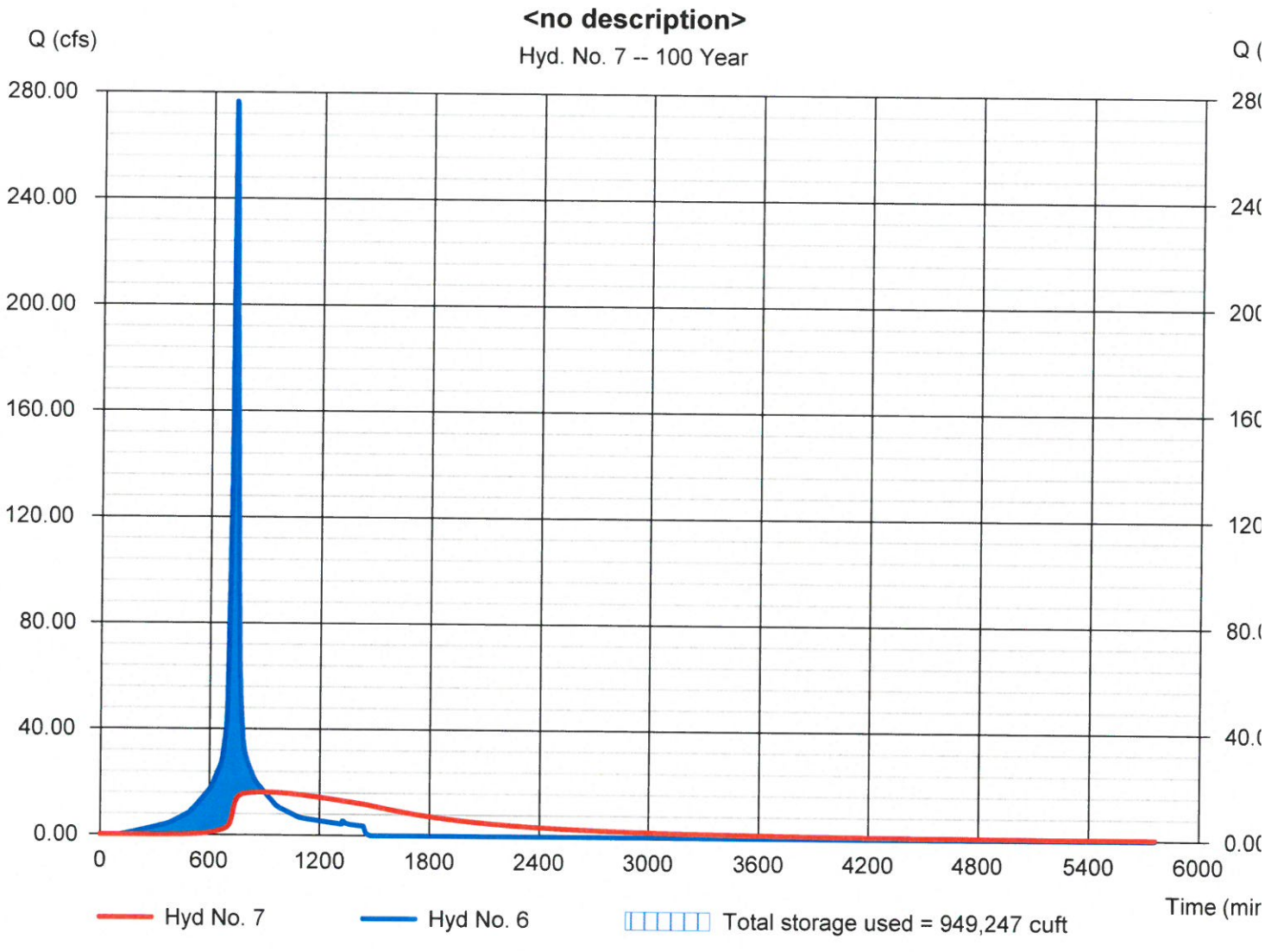
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Tuesday, 03 / 23 / 2021

Hyd. No. 7

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 16.18 cfs
Storm frequency	= 100 yrs	Time to peak	= 904 min
Time interval	= 2 min	Hyd. volume	= 1,260,330 cuft
Inflow hyd. No.	= 6 - <no description>	Max. Elevation	= 4.55 ft
Reservoir name	= EXISTING POND	Max. Storage	= 949,247 cuft

Storage Indication method used.



Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Hydraflow Rainfall Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Tuesday, 03 / 23 / 2021

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	51.2636	12.6000	0.7740	--------
2	120.2653	20.2000	0.9136	--------
3	0.0000	0.0000	0.0000	--------
5	121.9171	22.7001	0.8638	--------
10	125.9155	24.0001	0.8397	--------
25	162.4312	27.7001	0.8539	--------
50	197.6749	30.4001	0.8682	--------
100	220.3055	32.0001	0.8675	--------

File name: Savannah.IDF

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	5.57	4.59	3.93	3.46	3.10	2.81	2.58	2.39	2.22	2.09	1.97	1.86
2	6.31	5.35	4.65	4.12	3.70	3.36	3.08	2.85	2.65	2.47	2.32	2.19
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	6.92	6.00	5.30	4.76	4.33	3.97	3.67	3.42	3.20	3.01	2.84	2.69
10	7.45	6.52	5.81	5.25	4.80	4.42	4.10	3.83	3.60	3.39	3.21	3.05
25	8.27	7.32	6.58	5.99	5.50	5.09	4.74	4.44	4.18	3.95	3.74	3.56
50	8.94	7.97	7.20	6.58	6.06	5.62	5.25	4.92	4.64	4.38	4.16	3.96
100	9.61	8.61	7.81	7.15	6.60	6.14	5.74	5.39	5.09	4.82	4.58	4.36

Tc = time in minutes. Values may exceed 60.

Precip. file name: Savannah.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	3.60	4.80	0.00	6.00	6.72	7.92	8.88	9.84
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-1st	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	4.80	0.00	6.00	6.72	7.92	8.88	9.84

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Appendix C
SOILS

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Soil Map—Bryan and Chatham Counties, Georgia
(PINDER POINT 2)

Map Scale: 1:2,240 if printed on A landscape (11" x 8.5") sheet.

N

0 30 60 120 180 Meters

0 100 200 400 600 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

USDA Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Soil Map—Bryan and Chatham Counties, Georgia
(PINDER POINT 2)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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 1:20,000.

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: Bryan and Chatham Counties, Georgia
Survey Area Data: Version 15, Jun 12, 2020

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

Date(s) aerial images were photographed: Apr 22, 2020—May 1, 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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cc (D)	Cape Fear soils	1.5	11.7%
Oj (C)	Ocilla complex	4.8	36.5%
Ok (B)	Ogeechee loamy fine sand	4.2	32.1%
Pl (B)	Pelham loamy sand, 0 to 2 percent slopes, frequently flooded	2.3	17.8%
W	Water	0.2	1.9%
Totals for Area of Interest		**13.1**	**100.0%**

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Soil Map—Bryan and Chatham Counties, Georgia
(PINDER POINT 1)



USDA **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

3/22/2021
Page 1 of 3

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
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- Perennial Water
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- Severely Eroded Spot
- Sinkhole
- Slide or Slip
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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Packet Pg. 213
12.C.g
Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cc	Cape Fear soils	2.1	21.3%
Ok	Ogeechee loamy fine sand	1.8	18.3%
Pl	Pelham loamy sand, 0 to 2 percent slopes, frequently flooded	5.8	59.7%
W	Water	0.1	0.7%
Totals for Area of Interest		**9.8**	**100.0%**

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

EXHIBITS

Exhibit-1 Pre-Developed

Exhibit-2 Post-Developed

Attachment: 120 PINDERPOINT RD TRAILER YARD S-SITE PLAN JUNE 2021 - Hydro 3.23.21 (2455 : Site Plan Review Application (Specific) 120

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: Development Services
Category: Planning/Zoning Item
Prepared By: Melanie Ellis
Department Head: Brian Harvey

AGENDA ITEM (ID # 2456)

DOC ID: 2456

Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of CH Realty IX - Sansone, Savannah 21-95, L.P., for a portion of PIN # 7-0977-01-028 (Hendley Road) for a Specific Development Site Plan to allow a Warehouse / Distribution Center (Lineage) in a P-I-2 (Planned Industrial) Zoning District

Issue/Item: Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of CH Realty IX - Sansone, Savannah 21-95, L.P., for a portion of PIN # 7-0977-01-028 (Hendley Road) for a Specific Development Site Plan to allow a Warehouse / Distribution Center (Lineage) in a P-I-2 (Planned Industrial) Zoning District

Background: The subject property is currently vacant woodland. There are no buildings or structures on the subject property. The General Development plan was approved during the regularly scheduled May 27, 2021 City Council Meeting.

Facts and Findings: The site plan consist of a 219,400 square foot warehouse / distribution center. The site plan also includes associated parking, utilities, drainage and infrastructure improvements. This application is under review by City Engineers, Thomas & Hutton.

Funding: N/A

Recommendation: The Planning Commission will hear this application on Monday, June 14, 2021 at 6:30 PM. **/ UPDATE: THE PLANNING COMMISSION VOTED 3-1 TO APPROVE THIS APPLICATION.**

ATTACHMENTS:

- 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Application (PDF)
- 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-1st Comment Letter T&H 5.26.21 (PDF)
- 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Timeline (PDF)
- 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (PDF)
- Planning Commission Agenda Minutes June 14, 2021 DRAFT (PDF)
- 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (PDF)

210185

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

RECEIVED
MAY 14 2021
BY: KS

Site Plan Review Application

Site Plan Application is required for all new construction in a "P" or "MPO" zone as defined in the Zoning Ordinance of the City of Port Wentworth.

Site Plan Type (*Check One*): ☒ General / Concept ☐ Specific Development

Site Plan Address: 0 Hendley Road

PIN #(s): Portion of 7-0977-01-028

Zoning: P-I-2 Estimated Cost of Construction: $

Type of Construction: Primarily Concrete Tilt-Wall Construction.

Applicant's Name: Kern & Co., LLC - Chad Zittrouer

Mailing Address: P O Box 15179 - Savannah, GA 31416

Phone #: 912-354-8400 Email: czittrouer@kernengineering.com

Developer Entity: Lineage Logistics
Owner's Name (If Different form Applicant): CH Realty IX - Sansone I Savannah 21-95, L.P.

Mailing Address: 3819 Maple Ave - Dallas, TX 75219

Developer Contact: Ken Burke
Phone #: 402-660-0989 Email: kburke@lineagelogistics.com

I hereby acknowledge that the above information is true and correct.

Chad Zittrouer

Applicant's Signature — Date: 5/14/21

See Exhibit A

Owner's Signature (If Different form Applicant) — Date: 5/14/21

Please see page 2 for required submittal checklist

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Application (2456 : Site Plan Review Application (Specific) 7-0977-

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

Site Plan Review Application Submittal Checklist

Documentation below is required for a complete submittal.

- ☒ Signed and Completed Application
- ☒ 5 ~~3~~ Full size sets of site plan civil drawings or concept plan (depending on type of site plan)
- ☒ 15 half size (11" X 17") sets of site plan civil drawings or concept plan (depending on type of site plan)
- ☐ 2 copies of hydrology reports (if applicable) N/A for concept
- ☒ Names, mailing address, and PIN number of all property owners within 250 feet of all property lines
- ☒ 1 8 ½" X 11" of site plan civil drawings or concept plan (depending on type of site plan)
- ☒ PDF of entire submittal (either flash drive or CD)
- ☐ Other Engineering details or reports may be required once submittal has been received
- ☒ Site plan review fee check
  - No Land Disturbance- $206.00 Site Plan Fee + $50.00 Admin Fee = Total $256.00
  - With Land Disturbance - $836.00 Site Plan Fee + $50.00 Admin Fee = Total $886.00

Additional Fee Statement: If engineer review cost to the City exceeds the site plan review fee that is paid at the time of initial application submittal, you may be required to pay additional review cost.

I have read and agree to the above additional fee statement

Chad Zittrouer

Applicant's Signature

5/14/21

Date

Updated 4/28/2020

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Application (2456 : Site Plan Review Application (Specific) 7-0977-

EXHIBIT A

CH REALTY IX-SANSONE I SAVANNAH 21-95, L.P., a Delaware limited partnership

By: CH Realty IX/I Savannah 21-95 GP, L.L.C., a Delaware limited liability company, its general partner

By: Fund IX Managers, L.L.C., a Texas limited liability company, its manager

By: _____
Name: Matthew E. Colter
Title: Vice President

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Application (2456 : Site Plan Review Application (Specific) 7-0977-

Adjacent Property Owners

PIN: 70977 01020, 70977 01019, 70977 01018 & 70977 01017
Owner: Georgia Power Company
Property Address: Monteith Road, Port Wentworth, GA 31407
Owners Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308

PIN: 70977 01027 & 70977 02002
Owner: CH Realty IX-Sansone I Savannah 21-95, L.P.
Property Address: Hendley Dr & Monteith Road, Port Wentworth, GA 31407
Owners Address: 3819 Maple Ave, Dallas, TX 75219

PIN: 70977 01016
Owner: Leon Thomas
Property Address: 208 Monteith Rd, Port Wentworth, GA 31407
Owners Address: 208 Monteith Rd, Port Wentworth, GA 31407

PIN: 70977 01015
Owner: Mae Frances Bryant
Property Address: 212 Monteith Rd, Port Wentworth, GA 31407
Owners Address: 212 Monteith Rd, Port Wentworth, GA 31407

PIN: 70977 01014
Owner: Robert L. Bryant & Cotea D. Jones
Property Address: 216 Monteith Rd, Port Wentworth, GA 31407
Owners Address: 216 Monteith Rd, Port Wentworth, GA 31407

PIN: 70977 01013
Owner: Wibert Hurst
Property Address: 220 Monteith Rd, Port Wentworth, GA 31407
Owners Address: 220 Monteith Rd, Port Wentworth, GA 31407

PIN: 70977 01012
Owner: Thelma Stewart, Robein Ruth Shubert and Marion Stewart
Property Address: 230 Monteith Rd, Port Wentworth, GA 31407
Owners Address: 230 Monteith Rd, Port Wentworth, GA 31407

PIN: 70977 01011
Owner: Mount Moriah Baptist Church
Property Address: 228 Monteith Rd, Port Wentworth, GA 31407
Owners Address: 228 Monteith Rd, Port Wentworth, GA 31407

PIN: 70977 01010
Owner: Body of Christ Church and Ministries
Property Address: Monteith Rd, Port Wentworth, GA 31407
Owners Address: 201 Birch Dr, Rincon, GA 31326

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Application (2456 : Site Plan Review Application (Specific) 7-0977-

PIN: 70977 01008
Owner: Greenland Developers, Inc.
Property Address: 240 Monteith Rd, Port Wentworth, GA 31407
Owners Address: P.O. Box 1628, Springfield, GA 31329

PIN: 70977 01024 & 70977 01025
Owner: Walter M. Czura
Property Address: 135 Ferguson Rd Port Wentworth, GA 31407
Owners Address: P.O. Box 6567, Hilton Head, SC 29938

PIN: 70037 02002 & 70037 02002A
Owner: PFJ Southeast, LLC
Property Address: 7001 Highway 21, Port Wentworth, GA 31407
Owners Address: P.O. Box 54650, Lexington, KY 40555

PIN: 70037 02002B
Owner: City of Port Wentworth
Property Address: Augusta Rd, Port Wentworth, GA 31407
Owners Address: 7224 GA Highway 21, Port Wentworth, GA 31407

PIN: 70037 01043
Owner: Enmark Station, Inc
Property Address: 401 Oleary Dr, Port Wentworth, GA 31407
Owners Address: P.O. Box 728, Savannah, GA 31402

PIN: 70978 05018
Owner: Robert Lee Hester
Property Address: Monteith Rd, Port Wentworth, GA 31407
Owners Address: 8 Nanny Cove Ct, Bluffton, SC 29910

PIN: 70976 02021
Owner: Coastal Club Port Wentworth, LLC
Property Address: 50 Newport Rd, Port Wentworth, Ga 31407
Owners Address: 1031 West Morse Blvd, Suite 240, Winter Park, FL 32789

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Application (2456 : Site Plan Review Application (Specific) 7-0977-

CITY OF PORT WENTWORTH
(912) 964-4379

REC#: 00313404 5/14/2021 2:53 PM
OPER: ME TERM: 011
REF#: CK 6994

TRAN: 112.0000 BLDG PERMIT
210185 886.00CR
CH REALTY IX-SANDSONE SAVANNAH
7-0977-01-028
DEV-SPR 886.00CR

TENDERED: 886.00 CHECK
APPLIED: 886.00-

CHANGE: 0.00

WWW.CITYOFPORTWENTWORTH.COM

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Application (2456 : Site Plan Review Application (Specific) 7-

THOMAS & HUTTON
50 PARK OF COMMERCE WAY
SAVANNAH, GA 31405 | 912.234.5300
WWW.THOMASANDHUTTON.COM

May 26, 2021

Mr. Brian Harvey
Director of Development Services
City of Port Wentworth
305 South Coastal Highway
Port Wentworth, GA 31407

Re: Hendley Road Lineage
Port Wentworth, Georgia
Site Plan Review
J–25412.0021

Dear Brian:

We have received the site plan for the referenced project submittal. The following information was included in the submittal package:

- Hydrology Report, dated May 17, 2021
- Site Drawings of Project Bajor, Dated May 12, 2021

This site plan review was completed based on our interpretation of the latest City of Port Wentworth zoning ordinance and development regulations. Thomas & Hutton's review was performed in an effort to assess if the application package for the proposed improvements is in general conformance with City of Port Wentworth regulations. Our review shall not be interpreted as a detailed technical analysis of the design or for verification of technical sufficiency for elements of design. Under no circumstances shall our review and comments related to the site plans relieve the Applicant's Design Professional of their professional obligations and professional standards of care. As such, the design submitted by the Applicant's Design Professional shall be the sole responsibility of the Applicant's Design Professional. Thomas & Hutton shall not accept any responsibility for any liability due to design and construction, in whole or in part, for any aspect of the design and construction of design documents.

We have reviewed the submittal package and offer the comments noted below for consideration.

General Comments

1. The site is zoned as Planned General Business with a zoning code of P–C–3. There appears to be a PUD overlay district for the site. Please confirm that no additional PUD development requirements apply to the site.

2. Pursuant to the National Wetland Inventory (NWI), it appears that there are wetlands that exist onsite and will be impacted. Please provide a USACE JD, and, if wetland impacts are proposed, a USACE wetlands impact permit.

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-1st Comment Letter T&H 5.26.21 (2456 : Site Plan Review

3. The site lies within an Effective FEMA Zone X, area of minimal flood hazard; Zone X (shaded), area of moderate flood hazard; and special flood hazard area (SFHA) Zone AE with a base flood elevation (BFE) of 12 ft as documented on FEMA FIRM Panel 13051C0040H, effective August 16, 2018. Please confirm no floodplain impacts are proposed as a part of this development.

4. Please provide EPD water/wastewater permits, if applicable.

5. Please provide an NPDES NOI submittal package, GSWCC approval, and any other applicable permits.

Stormwater Comments

In accordance with the City of Port Wentworth Drainage and Flood Control Ordinance (PWSMO) Section 7–79, this project proposes site development that will involve the creation of 5,000 square feet or more of impervious cover that otherwise did not exist on the site previously. As such, all stormwater provisions apply to this site.

1. Provide all requirements of a stormwater management design plan as prescribed in Section 7–80(d) and 7-82 of the Port Wentworth Code of Ordinances. Runoff reduction appears to not be addressed within this submittal.

2. Please provide the Owner's Certification statement required by Section 7–80(d)(6) of Article III of the Drainage and Flood Control Ordinances within the Port Wentworth Code of Ordinances.

3. Please acknowledge that a performance bond will be required prior to construction, as listed in Section 7–80(h) of Article III of the Drainage and Flood Control Ordinances within the Port Wentworth Code of Ordinances.

4. Provide a stormwater management inspection and maintenance agreement and plan as prescribed in Section 7–80(e) of the Port Wentworth Code of Ordinances.

5. Per Section 3.7.10 of the CDM, please provide a statement of no adverse upstream or downstream impacts to the existing stormwater system.

6. Please provide existing and proposed drainage basin exhibits.

7. Additional stormwater design comments may arise upon submission of the requested requirements.

Water, Fire System, and Sanitary Sewer Design Comments

1. Please provide the Water/Wastewater Availability Request Form found in Appendix A of the Port Wentworth Comprehensive Design Manual (CDM) as required by Section 3.3 of the CDM.

2. Please provide signed and sealed design calculations and flow requirements for the water distribution system and fire flow requirements per Section 3.4 of the latest Port Wentworth CDM.

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-1st Comment Letter T&H 5.26.21 (2456 : Site Plan Review

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-1st Comment Letter T&H 5.26.21 (2456 : Site Plan Review

3. Please provide signed and sealed design calculations and flow requirements for the wastewater collection system per Section 3.5 of the latest Port Wentworth CDM.

4. Provide notes in the plans and specifications as indicated in Section 3.4.2(h) of the latest Port Wentworth CDM.

5. If no fire system is proposed, please provide a statement on the plans.

6. Complete and provide the Water Distribution System Check List (Exhibit 1 in the Comprehensive Development Manual.)

7. Complete and provide the Wastewater Collection System Check List (Section 3.5.3 Exhibit 1 in the Comprehensive Development Manual).

8. Complete and provide the Fire Protection Design Requirements form as found on page 17 of the Port Wentworth CDM.

9. Please provide typical profiles of proposed utilities and indicate finished grade and existing grade elevations per Section 3.1 of the latest Port Wentworth CDM.

10. Additional water, fire system, and sanitary sewer design comments may arise upon submission of the requested calculations and materials.

Plan Sheets Comments

1. Please provide existing roads, buildings, parking areas and other impervious surface per Section 7-80(b)(3) of the Port Wentworth Code of Ordinances.

Site Lighting Comments

1. Please provide a Site Lighting Plan for the development, if applicable.

Paving, Signage, and Parking Comments

1. Applicant shall ensure construction of sidewalks, ADA parking, and accessible routes are in conformance with federal ADA standards, latest edition. Please provide a note on the plans.

2. Provide all applicable details concerning the parking spaces, both handicap accessible and otherwise.

3. Any proposed signage will require a separate permit as outlined in Section 19.1–3 of Port Wentworth Code of Ordinances.

4. A building permit will be required as outlined in Section 7.3, Appendix B of Port Wentworth Code of Ordinances.

Thank you for your attention to this project. If there are any questions or comments, please feel free to call us at (912) 234–5300.

Sincerely,

THOMAS & HUTTON

Darby Burk

DMB/dmb

Enclosures

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-1st Comment Letter T&H 5.26.21 (2456 : Site Plan Review

Project Timeline

Specific Site Plan – Lineage Warehouse Hendley Road

Review By Thomas & Hutton

- 5/14/2021—Application received Incomplete:
  - Missing: PDF, Hydro, 15 Copies of Site Plan
- 5/14/2021—Sent email to Chad Zittrouer about missing items. Gave him until 5:00 PM on 5/17/2021 or it would not be on the June 2021 meetings.
- 5/17/2021--- received missing information.
- 5/18/2021—send package to Thomas & Hutton to start review.
- 5/26/2021—Received 1st Comment letter from Thomas & Hutton. Chad was copied on the email.
- 6/14/2021—sent email to Jennifer, T&H, for a status of the site plan review. Jennifer responded that as of 6/14/2021 @ 4:13 PM there had been no return comments or submittals from the applicant.
- 6/14/2021—Planning Commission voted to approve the application 3-1 during the regularly scheduled meeting.

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Timeline (2456 : Site Plan Review Application (Specific) 7-0977-01-

SITE DRAWINGS OF

PROJECT BAJOR

FOR

LINEAGE LOGISTICS

PORTWENTWORTH, GA

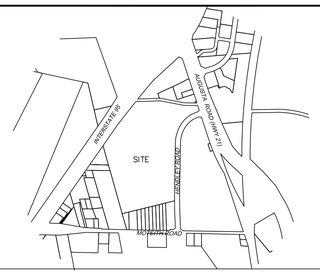
KC PROJECT #: 210067

MAY 12, 2021

KC PROJECT # 210067.010

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

VICINITY MAP:



PROJECT SITE DATA:

SITE DATA:

PROJECT AREA: 29.0 AC
AREA OF DISTURBANCE: 29 ACRES
ZONING: P-I-2
P.I.N.: 7-0977-01-028
PROJECT ADDRESS: 0 HENDLEY ROAD
PROJECT CITY: PORT WENTWORTH
DISTRICT NUMBER: ???
LOT NUMBER:
OWNER NAME: CH REALTY IX-SNASONE I SAVANNAH 21-95, LP
CONTACT: KEN BURKE
OWNER ADDRESS: 3819 MAPLE AVE
OWNER CITY: DALLAS, TX 75219
TELEPHONE NO.: 402-660-0989
DATE OF SURVEY: BY OTHERS
GOVERNING AGENCY: PORT WENTWORTH

INDEX OF DRAWINGS:

	COVER SHEET		
C-001	GENERAL NOTES		
C-002	STAKING PLAN		
C-003	PAVING, GRADING & DRAINAGE PLAN		
C-004	UTILITY PLAN		
C-005	INITIAL EROSION PLAN		
C-006	INTERMEDIATE EROSION PLAN		
C-007	FINAL EROSION PLAN		
C-008	SOIL EROSION & SEDIMENTATION CONTROL DETAILS		
C-009	SOIL EROSION & SEDIMENTATION CONTROL DETAILS		
C-0010	SOIL EROSION & SEDIMENTATION CONTROL DETAILS		
C-0011	SITE DETAILS		

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION
DATE: _____ BY: _____

VICTORY
UNLIMITED CONSTRUCTION
CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

RKB
rkb architects, Inc.
zero campanelli drive, braintree, ma 02184
p 781.848.6600 f 781.848.6660 w rkbarch.com

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Lineage

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT: Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV:	DATE	DESCRIPTION

DRAWING NO.: C-001

TITLE: STAKING PLAN

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

SESC NOTES:

1. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING AS TEMPORARY STABILIZATION. ALL PERMANENT GRASS SHALL BE SOD.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
3. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATIVE ON ALL STOCKPILED SOILS.
4. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.
5. CONTRACTOR SHALL PROVIDE 1.5"-3.5" STONE 6" THICK, 50' MIN. LONG BY 20' MIN. WIDE AT ALL CONSTRUCTION EXITS TO MINIMIZE TRANSPORT OF SOIL FROM SITE BY VEHICLE WHEELS.
6. ALL EXISTING INLETS AND DITCHES SUBJECT TO STORM WATER RUNOFF FROM THE SITE AND ALL NEW INLETS SHALL BE PROVIDED WITH HAY BALES SILT CARRIERS TO MINIMIZE SOIL TRANSPORT OFF SITE BY STORM WATERS.
7. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE GOVERNING AGENCY'S, STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS (AVAILABLE FROM THE CITY OF SAVANNAH'S WEBSITE) AND THE SPECIFICATIONS, NOTES AND DETAILS ON THESE DRAWINGS.
8. TESTING - COORDINATE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.
9. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.
10. PRIOR TO CONSTRUCTION, ALL BUILDING AREAS, PLUS 10 FEET ON EACH SIDE AND ALL AREAS TO BE PAVED, SHOULD BE STRIPPED OF ALL VEGETATION, TOP SOIL AND ROOT SYSTEMS.
11. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN-OFF OF STORM WATER.
12. ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACK FILLED WITH APPROVED FULL, THE BACK FILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557. TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
13. ANY UTILITIES THAT UNDERLIE THE SITE SHOULD, UNLESS NOTED OTHERWISE, BE RELOCATED AND THE TRENCHES BACK FILLED WITH APPROVED SOIL. THE BACK FILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
14. THE SUBGRADE SHOULD BE PROOF ROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM DENSITY OF 95% IN ACCORDANCE WITH ASTM-D-1557. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% DENSITY. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THAN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
15. ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF A CLEAN, FREE DRAINING SAND WITH A MAXIMUM OF 15% FINES. THE FILL SHOULD BE FREE OF OBJECTIONABLE ROOTS, CLAY LUMPS AND DEBRIS.
16. ANY FOOTING EXCAVATIONS THAT ARE DIRECTLY ADJACENT TO THE EXISTING FOUNDATIONS SHOULD BE DONE IN SMALL INCREMENTS TO AVOID UNDERMINING THEM AND CAUSING A LOSS OF SUPPORT TO THE EXISTING STRUCTURE. IF NECESSARY, THE EXCAVATIONS SHOULD BE SHEETED AND BRACED OR THE SOIL IN THE AFFECTED AREA SHOULD BE STABILIZED BY GROUTING.
17. THE FOOTING EXCAVATIONS AND ALL OF THE PREPARED SLAB UPGRADE SHOULD BE MAINTAINED IN A DRY AND COMPACTED CONDITION UNTIL THE CONCRETE IS PLACED. AREAS THAT ARE SOFTENED BY WATER OR BY CONSTRUCTION ACTIVITY BEARING. SHOULD BE REWORKED AND RECOMPUTED TO THE REQUIRED DENSITY AND BEARING.
18. MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.
19. ALL CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY WILL REQUIRE AN ENCROACHMENT PERMIT FROM PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS PERMIT PRIOR TO CONSTRUCTION.
20. ALL CONSTRUCTION SHALL CONFORM TO GOVERNING AGENCY'S TECHNICAL SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS.
21. THE DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHALL CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED; THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT THIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER.
22. SEDIMENTATION BASIN SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND PRIOR TO ANY OTHER SITE WORK.

WATER - SEWER NOTES:

1. FOR ALL WATER, SANITARY SEWER LINES AND STORM DRAINAGE INSTALLATION. CALL - ONE CALL UTILITIES PROTECTION CENTER BEFORE YOU DIG DIAL 811 OR 1-800-282-7411. WWW.GEORGIA811.COM CALL 3 WORKING DAYS BEFORE YOU DIG.
2. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS INDICATED ON THE PLANS THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AS ARE NECESSARY TO ENSURE THAT ALL SEDIMENTATION IS CONFINED TO THE SITE AND THAT NO OFFSITE EROSION IS CAUSED BY THE WORK EITHER DIRECTLY OR INDIRECTLY.
3. HIGHLY CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORMWATER SYSTEM. IT SHALL BE DISCHARGED INTO THE SANITARY SEWER SYSTAM AS PER THE ENGINEER DIRECTION AND THE CITY'S/COUNTY'S INSPECTION DEPARTMENT OBSERVATION.
4. PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC, THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND OTHER FOREIGN MATTER AT ALL TIMES.
5. ANY DEFECTIVE, DAMAGED OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND IT SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY APPROVED MEANS AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.
6. CLEAN THE INTERIORS OF ALL PIPE BY WASHING OUT ALL DIRT BEFORE LAYING.
7. FLUSH THE NEW PIPE LINES UNTIL WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION. A MINIMUM TIME OF 2 MINUTES AND UNTIL THE WATERMAIN RUNS CLEAR IS REQUIRED IN ORDER TO PURGE THE LINE OF ANY FOREIGN MATERIALS.
8. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, AR APPROVED EQUAL, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID.
9. MAINTAIN A MINIMUM OF EIGHTEEN (18") INCH VERTICAL SEPARATION DISTANCE BETWEEN ALL WATER LINE/LATERALS AND ALL STORM DRAIN LINES AND SANITARY SEWER LINES/LATERALS.
10. IF AN IRRIGATION SYSTEM IS PROPOSED FOR SUBJECT DEVELOPMENT, COMPLY WITH THE FOLLOWING REQUIREMENTS BEFORE ANY CONNECTION TO THE CITY WATER SYSTEM:
    (A) SUBMIT PLANS AND SPECIFICATIONS FOR _ SUBJECT IRRIGATION SYSTEM.
    (B) INSTALL AN APPROVED BACKFLOW PREVENTOR ON THE IRRIGATION SYSTEM,(C) METER THE IRRIGATION SYSTEM IN ACCORDANCE WITH THE GOVERNING AGENCY'S SPECIFICATIONS.
    (D) RESTRAIN ALL CRITICAL BENDS AND CONNECTIONS.
    (E) PROVIDE ERU CALCULATIONS FOR THE IRRIGATION SYSTEM
11. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE GOVERNING AGENCY'S WATER OPERATION DEPARTMENT.
12. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE DONE BY THE CORE DRILL METHOD.
13. THE WATER SERVICE LATERAL SERVING THE FACILITY SHALL BE INSTALLED BY THE DEVELOPER/CONTRACTOR FROM THE WATER MAIN TO THE METERS. THE PUBLIC WORKS DEPARTMENT WILL ONLY MAKE THE WET TAP. THE GOVERNING AGENCY WILL NOT INSTALL THE WATER SERVICE LATERAL.
14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CERTIFICATIONS OF BACKFLOW DEVICES TO THE ENGINEER.
15. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE GOVERNING AGENCY'S LATEST CONSTRUCTION SPECIFICATION AND DETAILS.
16. LOCATE HIGHPOINT OF WATERMAIN AND INSTALL AIR RELIEF VALVE TO FACILITATE AIR REMOVAL FROM WATERMAIN.
17. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
18. CONTRACTOR TO VERIFY ALL INVERT ELEVATIONS OF SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER WITH INVERT DATA TO INSURE THERE ARE NO CONFLICTS.
19. SEE ARCHITECTURAL PLUMBING PLAN FOR EXACT TIE LOCATION & LINE SIZES.
20. ALL WATER METERS AND STRAINERS SHALL BE PURCHASED FROM THE CITY.
21. THE INDIVIDUAL REQUESTING WATER SERVICE SHALL BE RESPONSIBLE FOR EXCAVATION, TAPPING, AND BACKFILLING THE WATER MAIN FROM WHICH THE SERVICE IS REQUIRED.
22. ALL MATERIAL USED FROM TAP TO DISCHARGE PIPE SHALL BE M.J. DUCTILE IRON, RESTRAINED JOINT, INCLUDING BY-PASS.
23. ALL VALVES 4-INCHES OR LARGER SHALL BE INSTALLED IN A MANHOLE, FOR THE TAPPING VALVE ONLY.
24. ALL TAPPING SLEEVES SHALL BE DUCTILE IRON, MJ, AND PRESSURE TESTED AT 150 PSI FOR A MINIMUM OF ONE HOUR WITH A PRESSURE LOSS NO GREATER THAN 1 PSI.
25. THE GOVERNING AGENCY'S WATER DEPARTMENT SHALL INSPECT THE PRESSURE TEST, IF THE CITY DOES NOT INSPECT THE PRESSURE TEST, THE CITY WILL NOT ACCEPT ANY RESPONSIBILITY OF MAINTENANCE FOR THE TAPPING VALVE OR SLEEVE.
26. THE TAPPING GATE VALVE SHALL BE RESILIENT SEAT, EPOXY COATED, M.J. BY FLANGE, DOMESTIC MADE.
27. ALL MATERIAL USED AND WHICH COMES IN CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY AFFECT DRINKING WATER QUALITY OR PUBLIC HEALTH. MATERIALS MUST BE CERTIFIED FOR CONFORMATION WITH AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61).
28. BACKFLOW PREVENTOR, VALVES AND POST INDICATOR VALVES FOR FIRE SPRINKLER SYSTEMS SHALL BE ELECTRICALLY SUPERVISED BY A TAMPER SWITCH INSTALLED IN ACCORDANCE WITH NFPA72.
29. IF THIS IS AN EXISTING FACILITY, THE WATER METER AND BACKFLOW PREVENTOR WILL NEED TO MEET THE CURRENT STANDARDS.
30. FOR FORCE MAIN DISCHARGE MANHOLES (INCLUDING THE TWO (2) MANHOLES DOWNSTREAM OF THE DISCHARGE MANHOLE, FOR A TOTAL OF THREE (3) MANHOLES), DROP MANHOLES AND LIFT STATION WETWELLS: THE PROTECTIVE COATING SHALL BE A POLYMER BASED POLYURETHANE OR A HIGH-BUILD, SOLVENT-FREE EPOXY COATING. FOR SMALL LIFT STATIONS AT THE DISCRETION OF THE CITY, THE NUMBER OF MANHOLES REQUIRING COATING MAY BE REDUCED.
31. FOR LIFT STATION WETWELLS, THE COATING LIMITS SHALL INCLUDE FROM THE BOTTOM OF FILLET, WETWELL WALLS, AND ROOF. COATING SYSTEM SHALL OVERLAP 1" TO 2' WHERE HATCHES SIT ON THE ROOF; BUT SHALL EXCLUDE THE WETWELL FLOOR. FOR MANHOLES, THE COATING LIMITS SHALL INCLUDE FROM THE FLOW LINE IN THE TROUGH OF THE INVERT UP TO THE RING WITH A 1" TO 2' OVERLAY ON THE RING.
32. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR GRAVITY SEWER AND FORCE MAINS AT APPROXIMATELY 30" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELEED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL, IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO MANHOLE RINGS. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
33. ALL SANITARY SEWER LATERALS SHALL BE PROPERLY MARKED AT THE POINT WHERE LATERALS TERMINATE WITH PVC PIPE PAINTED GREEN. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR. SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AN TRACER WIRE AS DESCRIBED ABOVE.
34. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR WATER MAINS AT APPROXIMATELY 18" TO 24" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT. COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO CURB STOPS AND BROUGHT TO TOP OF VALVE. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
35. ALL WATER SERVICES SHALL BE PROPERLY MARKED ABOVE GROUND WITH PVC PIPE PAINTED BLUE. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. SERVICES SHALL BE MARKED WITH MARKING TAPE AN TRACER WIRE AS DESCRIBED ABOVE.
36. ALL SIGNS SHALL BE 30" HIGH INTENSITY OR DIAMOND GRADE.
37. THREE INCH AND LARGER WATER METER AND STRAINERS SHALL BE PURCHASED FROM THE CITY.

***CURRENT BUILDING CODE ALLOWS MAXIMUM OF 216' OF 4" SANITARY SEWER @ 1%.
***CURRENT BUILDING CODE ALLOWS MAXIMUM OF 700' OF 6" SANITARY SEWER @ 1%.
***CURRENT BUILDING CODE REQUIRES CLEANOUT EVERY 100' & AT TURNS > 45 DEGREES.

DEMOLITION NOTES:

1. MINIMUM OF 10 DAYS PRIOR TO DEMOLITION OF BUILDING, THE DEMOLITION CONTRACTOR SHALL NOTIFY THE EPD USING THE EPD FORMS OF THE DEMOLITION. (FORMS AVAILABLE FROM ENGINEER)
2.
3. SEE DEMOLITION PLAN FOR SCOPE OF WORK.
4. ALL WATER AND SANITARY SEWER LATERALS ASSOCIATED WITH THIS PROJECT ARE TO BE CAPPED PRIOR TO DEMOLITION.
5. CONTRACTOR TO LOCATE ALL EXISTING SEPTIC TANKS AND REMOVE.
6. ALL UTILITIES TO BE REMOVED BY LOCAL UTILITY COMPANIES.
7. ALL DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OFFSITE AT THE CONTRACTOR'S EXPENSE.

SITE NOTES:

1. THE GOVERNING AGENCY RESERVES THE RIGHT TO ACCESS PROPERTY FOR ON SITE INSPECTIONS.
2. PROPOSED DETENTION AND/OR SEDIMENTATION POND SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND PRIOR TO ANY OTHER SITE WORK OR BUILDING ERECTION.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED AS DEEMED NECESSARY BY ON SITE INSPECTION.
4. PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF CONTROL STRUCTURE & DETENTION POND UPON COMPLETION OF THE CONTRACT.
5. CONTRACTOR WILL NEED TO OBTAIN A RIGHT OF WAY PERMIT PRIOR TO PERFORMING CONSTRUCTION ACTIVITY IN THE CITY'S/COUNTY'S RIGHT OF WAY.
6. NO TREE MULCHING WITHIN OR ON TOP OF THE DETENTION BASIN.
7. ALL DRAINAGE STRUCTURES GREATER THAN 3 FEET SHOULD HAVE STEPS FOR EASY ACCESS.
8. AS-BUILT SHALL CONTAIN ACCURATE INFORMATION INCLUDING DEPTH, LENGTH, SIZE, SLOPE OF PIPES. ALSO REQUIRED ARE SPOT ELEVATIONS ON THE STORMWATER DETENTION FACILITY, PAVEMENTS TO ENSURE THE SITE GRADING PLAN AND THE CAPACITY OF THE DETENTION FACILITY ARE BUILT ACCORDING TO THE ACCEPTED CONSTRUCTION PLANS. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILTS" PROPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL; SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES. THE DISTANCE OF THE CENTERLINE UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER; AND ANY OTHER REQUIREMENT MADE BY THE GOVERNING AGENCY'S.
9. THE GOVERNING AGENCY MAY RESERVE THE RIGHT TO REQUIRE TELEVISING, PER CITY TELEVISING MANUAL, OF ALL SANITARY SEWER LINES 8" OR LARGER, ALL NEWLY CONSTRUCTED STORMWATER LINES AND STORMWATER LINES WHERE DAMAGE COULD OCCUR DURING CONSTRUCTION.
10. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.
11. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS, AND OBTAINED UTILITY LOCATES AS REQUIRED.
12. CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT.
13. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.
14. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.
15. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM. NAVD 88.
16. A MINIMUM SHOULDER WIDTH OF 4 FEET WITH A MINIMUM TRANSVERSE SLOPE OF 5% WILL BE PROVIDED ADJACENT TO CURBS AND WALKS. ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.
17. MAXIMUM EARTH SLOPES WILL BE 3:1. GRADE FROM SHOULDER EDGE TO RIGHT- OF-WAY AT 1% MINIMUM.
18. UNSUITABLE SUBGRADE MATERIAL WILL BE DETECTED BY PROOF ROLLING A MINIMUM OF 2 PASSED WITH A MINIMUM TRUCK WEIGHT OF 40 KIPS AFTER ROADWAY HAS BEEN BROUGHT TO APPROXIMATE SUBGRADE ELEVATION, TO BE OBSERVED BY ENGINEER AND GOVERNMENTAL INSPECTOR.
19. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER.
20. SUBGRADE WILL BE COMPACTED FOR A DEPTH OF 24" EXTENDING 24" BEYOND PAVEMENT EDGES, TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY AS MEASURED A.A.S.H.O. METHOD T-99.
21. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKING WILL BE AN ENGINEER APPROVED VEHICULAR TRAFFIC PAINT. (WHITE IN COLOR & 4" WIDE)
22. PROVIDE 1/2" EXPANSION JOINT IN NEW WALKS FOR DEPTH OF CONCRETE, WITH BITUMINOUS SEAL FOR TOP 1 INCH MINIMUM DEPTH AT ABUTMENTS WITH BUILDINGS OR OTHER CONCRETE STRUCTURES.
23. SAW-CUT CONTRACTION JOINTS WILL BE PROVIDED IN ACCORDANCE WITH DETAILS, CUT TO BE 1/4 DEPTH OF CONCRETE MINIMUM.
24. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING, EDGE OF SURFACE COURSE OR BACK OF CURBING.
25. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
26. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
27. SEE BUILDING PLANS FOR EXACT BUILDING DIMENSIONS.
28. ALL UTILITIES WILL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
29. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE.
30. HIGHLY CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORMWATER SYSTEM. IT SHALL BE DISCHARGED INTO THE SANITARY SEWER SYATEM AS PER THE ENGINEER DIRECTION AND THE CITY'S/COUNTY'S INSPECTION DEPARTMENT OBSERVATION.

ADA NOTES:

1. ACCESSIBLE ROUTE - EXTERIOR: MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'X5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS SHOULD MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.
2. FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS:
   A. 0 TO 1/4" : NO REQUIREMENTS
   B. 1/4" TO 1/2" : BEVEL WITH 1:2 SLOPE
   C. LARGER THAN 1/2" : CONFORM TO REQUIREMENTS FOR RAMP
3. RAMPS: MAX RAMP SLOPE 8.33% (1:12) RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30') MAX CROSS SLOPE OF RAMP 2% (1:50)
   A. LANDINGS: RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP. LANDINGS SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT. LANDING LENGTH SHALL BE MINIMUM 5' CLEAR IF RAMPS CHANGE DIRECTION AT LANDING. MINIMUM LANDING SIZE SHALL BE 5'X5', ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
   B. HANDRAILS: HANDRAILS REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6". PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSIONS AT TOP AND BOTTOM LANDINGS. PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS. ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS. STAIRS NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUTE OR PART OF TENANT SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS.
4. CURB RAMPS:MAX SLOPE OF CURB RAMP 8.33% MAX SLOPE OF SIDE FLARES 10% MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%. MIN WIDTH 36" (NOT INCLUDING SIDE FLARES). DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHT OF WAYS, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.
5. PAVEMENT MARKINGS: AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)
6. PARKING SPACES: MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE, MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION
7. SIGNAGE: ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE (60" ABOVE GRADE UNLESS OTHER HEIGHT REQUIRED BY LOCAL JURISDICTION).
8. ACCESSIBLE ROUTES: MUST COMPLY WITH ADA. THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2003

Kern & Co., LLC
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Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

VICTORY
UNLIMITED CONSTRUCTION
CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

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319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

TIE LINE TABLE		
LINE	LENGTH	DIRECTION
T1	35.54'	N54°50'13"E

LINE TABLE		
LINE	LENGTH	DIRECTION
L1	42.26'	S73°55'25"W
L2	59.93'	S74°44'23"E
L3	63.22'	N56°05'20"W
L4	51.03'	S85°51'53"E
L5	51.71'	S48°20'00"W

SURVEY CONTROL:
1/2" IRON ROD
N 795,386.77
E 955,534.64
ELEVATION 16.32'

SURVEY CONTROL:
1/2" IRON ROD
N 796,038.34
E 955,339.12

Henrietta S Teele Estate
SMB 195, PG 68

300' R/W

Lot 1
N/F Walter M Czura
DB 3455, PG 290
PIN 70977 01024

Lot 2
N/F Walter M Czura
DB 3455, PG 290
PIN: 70977 01025

N/F Greenland Developers, Inc
Deed Book 3432, Page 1
PIN 70977 01008

Georgia State Highway Department
Right of Way Proposed
Savannah-Summerton, S.C. Interstate Road
Chatham County
Limited Access Project
Federal Aid Project
I-95-1(20)101 R/W Phase II

Parcel C
Plat of a Division of the
Robert Hester Estate
Plat Record Book 45P, Page 13
N/F Robert Lee Hester
Deed Book 369L, Page 883
PIN: 70978 05018

Parcel 3
Cohen Hester Farm Place
1.323 Acres

Parcel 2
59.007 Acres

DETENTION AREA

NEW BUILDING
FF ELEV
22.67

12' Private Road / 12' Lane
Plat Record Book H, Page 12

Maintained Ditch

Limited Access

Fence west of line 0.5'

Fence east of line 1'

Zone X
Zone X (Shaded)
Zone AE

Approximate Location of Floodplain Boundary

Billboard
DB 3760 PG 241

Map Book 4, Page 172

Extreme West Portion of Drakie's Historic Map Book 4, Page 172 Plantation

Toler No. 54

Toler No. 53

Toler No. 52

NGS Vertical Control Disk X395 15.43'

BM #1

I.E. = 10.69'

I.E. 12.43'

Gravel Drive

Natural Gas and Utility Easement Permanent Easement (Deed Book 247L, Page 381)

SCG Pipeline, Inc.

Colonial Oil Industries, Inc. Right of Way Easement Deed Book 10LQ, Page 663 Plat Record Book Y, Page 12L

Permit for Crossing Pipeline Right of Way Deed Book 247T, Page 32

Savannah Electric & Power Company Easement for Right of Way Deed Book 10T, Page 373 Plat Record Book W, Page 85

Georgia Power Co. Map File No. SL45 Sheet 12 of 15

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
60 0 30 60 90 120
(IN FEET)
1 inch = 60 ft.

UTILITIES PROTECTION CENTER
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Lineage

GEORGIA
CERTIFICATE OF AUTHORIZATION
No. RB2965
PROFESSIONAL
5/13/21
CHADWICK R. ZITTROUER

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV.	DATE	DESCRIPTION

DRAWING NO.: C-002

TITLE: STAKING PLAN

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

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Deed Book 7032, Page 1
PIN: 70977 01008

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Savannah-Summerton, S.C. Interstate Road
Chatham County
Limited Access Project
Federal Aid Project
I-95-1(20)101 R/W Phase II

300' R/W

Du, Ds1, Ds2

DETENTION AREA

NEW BUILDING FF ELEV 22.67

Parcel 2
59.007 Acres

Du, Ds1, Ds2

Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
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(IN FEET)
1 inch = 60 ft.

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BM #1

VICTORY
UNLIMITED CONSTRUCTION
CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

RKB
rkb architects, Inc.
2900 campanelli drive, brairthree, ma 02184
p 781.848.6600 f 781.848.6660 w rkbarch.com

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Lineage

GEORGIA
CERTIFICATE OF AUTHORIZATION
RKB ARCHITECTS, INC.
PROFESSIONAL
5/13/21
CHAD WICK R. ZITTROUER

REVISION SCHEDULE		
REV.	DATE	DESCRIPTION

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

DRAWING NO.: C-003
TITLE: PAVING & GRADING PLAN

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

TIE LINE TABLE		
LINE	LENGTH	DIRECTION
T1	15.54'	N54°50'13"E

LINE TABLE		
LINE	LENGTH	DIRECTION
L1	49.26'	S73°57'25"W
L2	59.93'	N74°49'23"E
L3	62.22'	N56°50'26"W
L4	51.07'	S85°51'53"E
L5	51.71'	S48°20'00"W

SURVEY CONTROL:
1/2" IRON ROD
N 795,386.77
E 955,534.64
ELEVATION 16.32'

SURVEY CONTROL:
1/2" IRON ROD
N 796,038.34
E 955,339.12

Henrietta S Teele Estate
SMB 195, PG 68

Lot 1
N/F Walter M Czura
DB 3455, PG 290
PIN 70977 01024

Lot 2
N/F Walter M Czura
DB 3455, PG 290
PIN: 70977 01025

N/F Greenland Developers, Inc
Deed Book 7032, Page 1
PIN: 70977 01008

Parcel C
Plat of a Division of the
Robert Hester Estate
Plat Record Book 45P, Page 13
N/F Robert Lee Hester
Deed Book 369L, Page 883
PIN: 70978 05018

300' R/W

Georgia State Highway Department
Right of Way Proposed
Savannah-Summerton, S.C. Interstate Road
Chatham County
Limited Access Project
Federal Aid Project
I-95-1(20)101 R/W Phase II

DETENTION AREA

NEW BUILDING
FF ELEV
22.67

FIRE HYDRANT ASSEMBLY

4" PVC WATER MAIN

2-45° BENDS

10" PVC FIRE MAIN

10" X 10" TEE

6" PVC SANITARY LATERAL @ 1.00%

GRINDER LIFT STATION

243 LF 4" PVC SANITARY LATERAL @ 1.00%

C.O.

FIRE HYDRANT ASSEMBLY

4" X 4" TEE

100 LF 4" PVC SANITARY LATERAL @ 1.00%

2" POLYETHYLENE WATER LATERAL (DOMESTIC)

3" SANITARY FORCEMAIN

2" POLYETHYLENE WATER LATERAL (IRRIGATION)

10" PVC WATER MAIN (FIRE)

4" PVC LATERAL (DOMESTIC)

10" RPZ BACKFLOW PREVENTER (FIRE)

4" RPZ BACKFLOW PREVENTER (DOMESTIC)

10" X 4" TEE
4" VALVE IN BOX

4" X 2" TEE
2" VALVE IN BOX

2" RPZ BACKFLOW PREVENTER (IRRIGATION)

3" CHECK VALVE

CONNECT TO 3" SANITARY SEWER STUBOUT

CONNECT TO 10" STUBOUT WITH 10" VALVE IN MANHOLE

LATITUDE: 32.1821750
LONGITUDE: -81.1954000

WATER METER

BM #1

I.E. = 10.69'

I.E. 12.43'

Limited Access

Zone X
Zone X (Shaded)
Zone AE

Fence west of line 0.5'
Fence east of line 1'

Billboard
(DB 3760 PG 24)

Approximate Location of Floodplain Boundary

Tower No. 52
Tower No. 53
Tower No. 54

Extreme West Portion of Drakie's Historic Map Book 4, Page 172 Plantation

Map Book 4, Page 172

Not Maintained

12' Private Road / 12' Lane
Plat Record Book H, Page 12

Dedicated Fence

Savannah Electric & Power Company Easement for Right of Way (Deed Book 10U, Page 373 Plat Record Book W, Page 85)

Colonial Oil Industries, Inc Right of way Easement Deed Book 10U, Page 653 Plat Record Book Y, Page 124

Permit for crossing Pipeline Right of Way Deed Book 2L7T, Page 432

Natural Gas and Utility Easement Permanent Easement (Deed Book 2L7L, Page 381)

Gravel Drive

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.

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PROJECT NO.: 2021-002

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Lineage

GEORGIA
CERTIFICATE OF AUTHORIZATION
No. RF 002560
PROFESSIONAL
5/13/21
CHAD W. ZITTROUER

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV.	DATE	DESCRIPTION

DRAWING NO.: C-004

TITLE: UTILITY PLAN

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

TIE LINE TABLE

LINE	LENGTH	DIRECTION
T1	15.54'	N34°50'13"E

LINE	LENGTH	DIRECTION
L1	42.89'	S73°05'35"W
L2	50.00'	S73°49'23"E
L3	27.42'	N16°50'25"W
L4	21.05'	S85°51'53"E
L5	41.71'	S48°20'00"W

SURVEY CONTROL:
1/2" IRON ROD
N 796,038.34
E 955,339.12

SURVEY CONTROL:
1/2" IRON ROD
N 795,386.77
E 955,534.64
ELEVATION 16.32'

Lot 1
N/F Walter M Czura
DB 3455, PG 290
PIN: 70977 01024

Lot 2
N/F Walter M Czura
DB 3455, PG 290
PIN: 70977 01025

Henrietta S Teele Estate
SMB 195, PG 68

300' R/W

R/W

Georgia State Highway Department
Right of Way Proposed
Savannah-Summerton, S.C. Interstate Road
Chatham County
Limited Access Project
Federal Aid Project
I-95-1(20)101 R/W Phase II

Parcel C
Plat of a Division of the
Robert Hester Estate
Plat Record Book 45P, Page 13
Flat Record Book 369L, Page 883
N/F Robert Lee Hester
Deed Book 369L, Page 883
PIN: 70978 05018

Parcel 3
Cohen Hester Farm Place
1.323 Acres

Parcel 2
59.007 Acres

N/F Greenland Developers, Inc.
Deed Book 3432, Page 1
PIN: 70977 01008

12' Private Road / 12' Lane
Plat Record Book H, Page 12
Subdivision Map Book 195, Page 68

Maintained Fence

SdI -NS SILTFENCE

2 ROWS SdI -S SILTFENCE

Limited Access

Zone X
Zone X (Shaded)
Zone AE
Approximate Location of Floodplain Boundary

Fence west of line 0.5'
Fence east of line 1.9'

Pj
Cc
Oj
Ok

Map Book 4, Page 172

Extreme West Portion of Drakie's Historic Map Book 4, Page 172 Plantation

Georgia Power Co Map File No S145 Sheet 12 of 16

Colonial Oil Industries, Inc. Deed Book 10LO, Page 663 Right of Way Easement Plat Record Book Y, Page 12A

Savannah Electric & Power Company Deed Book 10LT, Page 313 Easement for Right of Way Plat Record Book W, Page 85

Permit for Crossing Deed Book 41JT, Page 432 Pipeline Right of Way

Natural Gas and Utility Easement Permanent Easement (Deed Book 24L, Page 381)

SCG Pipeline, Inc.

Gravel Drive

Tower No 52

Tower No 53

Tower No 54

NGS Vertical Control Disk X 395 15.43'

BM #1

LATITUDE: 32.1821750
LONGITUDE: -81.1954460

I.E. = 10.69'

I.E. 12.43'

GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

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VICTORY
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CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

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Lineage

GEORGIA
CERTIFICATE NO. PE022585
PROFESSIONAL ENGINEER
CHADWICK R. ZITTROUER

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV.	DATE	DESCRIPTION

DRAWING NO.: C-005

TITLE: INITIAL EROSION PLAN

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

LINE TABLE		
LINE	LENGTH	DIRECTION
L1	15.54'	N34°50'13"E

LINE TABLE		
LINE	LENGTH	DIRECTION
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L5	41.71'	S48°20'07"W

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1/2" IRON ROD
N 796 038.34
E 955,339.12

SURVEY CONTROL:
1/2" IRON ROD
N 795 386.77
E 955 534.64
ELEVATION 16.32'

Henrietta S Teele Estate
SMB 195, PG 68

300' R/W

Lot 1
N/F Walter M Czura
DB 3455, PG 290
PIN: 10977 01024

Lot 2
N/F Walter M Czura
DB 3455, PG 290
PIN: 10977 01025

N/F Greenland Developers, Inc
Deed Book 2432, Page 1
PIN: 10977 01008

Georgia State Highway Department
Right of Way Proposed
Savannah-Summerton, S.C. Interstate Road
Chatham County
Limited Access Project
Federal Aid Project
I-95-1(20)101 R/W Phase II

Parcel C
Plat of a Division of the
Robert Hester Estate
Plat Record Book 45P, Page 13
N/F Robert Lee Hester
Deed Book 369L, Page 883
PIN: 10978 05018

Parcel 3
Cohen Hester Farm Place
1.323 Acres

Parcel 2
59.007 Acres

Fence west of line 0.5'
Fence east of line 1'
Limited Access
Zone X
Zone AE
Zone X (Shaded)
R/W
Approximate Location of Floodplain Boundary
INTE
VARIA
RIGHT

Sdf -NS SILTFENCE
DETENTION AREA
Du, Ds1, Ds2
Delineated Fence
12' Private Road / 12' Ingress, Egress & Utility Easement
Plat Record Book H, Page 12
Du, Ds1, Ds2
2 ROWS Sdf -S SILTFENCE
Sdf -NS SILTFENCE
Sdf -NS SILTFENCE
Pj
Cc
Oj
Ok
Pj
Oj

Map Book 4, Page 172
Extreme West Portion of Drakie's Historic Map Book 4, Page 172 Plantation

Georgia Power Co
Map File No
S4L5
Sheet 12 of 16

Colonial Oil Industries, Inc
Deed Book 10LO, Page 663
Right of Way Easement
10' Easement
Plat Record Book Y, Page 12A

Permit for Crossing
Pipeline Right of Way
Deed Book 34TT, Page 432

Natural Gas and Utility Easement
Permanent Easement
(Deed Book 24TL, Page 381)

Savannah Electric & Power Company
Easement for Right of Way
(Deed Book 10LT, Page 313
Plat Record Book W, Page 85)

Tower No 52
Tower No 53
Tower No 54
Gravel Drive

NGS Vertical Control Disk X 395 15.43'

BM #1
LATITUDE: 32.1821750
LONGITUDE: -81.1954460

I.E. = 10.69'
I.E. 12.43'

S155
S158
S159

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.

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CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

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Lineage

GEORGIA
CERTIFICATE NUMBER
PSC-002565
PROFESSIONAL
5/13/21
ENGINEER
CHADWICK R. ZITTROUER

DATE ISSUED: xx.xx.xxxx
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE
REV. | DATE | DESCRIPTION

DRAWING NO.: C-006

TITLE: INTERMEDIATE EROSION PLAN

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

Kern & Co., LLC
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SURVEY CONTROL:
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N 795,386.77
E 955,534.64
ELEVATION 16.32'

SURVEY CONTROL:
1/2" IRON ROD
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E 955,339.12

Henrietta S Teele Estate
SMB 195, PG 68

300' R/W

Lot 1
N/F Walter M Czura
DB 3455, PG 290
PIN 70977 01024

Lot 2
N/F Walter M Czura
DB 3455, PG 290
PIN: 70977 01025

Georgia State Highway Department
Right of Way Proposed
Savannah-Summerton, S.C. Interstate Road
Chatham County
Limited Access Project
Federal Aid Project
I-95-1(20)101 R/W Phase II

Parcel C
Plat of a Division of the
Robert Hester Estate
Plat Record Book 45P, Page 13
N/F Robert Lee Hester
Deed Book 369L, Page 883
PIN: 70978 05018

Parcel 3
Cohen Hester Farm Place
1.323 Acres

Parcel 2
59.007 Acres

N/F Greenland Developers, Inc
Deed Book 342, Page 1
PIN: 70977 01008

DETENTION AREA

NEW BUILDING FF ELEV 22.67

Du, Ds1, Ds2

Du, Ds1, Ds2

2 ROWS SdI -S SILTFENCE

SdI -NS SILTFENCE

SdI -NS SILTFENCE

SdI -NS SILTFENCE

Limited Access

Limited Access

Fence west of line 0.5'

Fence east of line 1'

Zone X

Zone X (Shaded)

Zone AE

Approximate Location of Floodplain Boundary

Billboard (DB 3760 PG 241)

Toller No. 52

Toller No. 53

Toller No. 54

Toller No. 55

Toller No. 56

Toller No. 57

Extreme West Portion of Drake's Historic Map Book 4, Page 172 Plantation

Map Book 4, Page 172

Natural Gas and Utility Easement Permit for crossing Pipeline Right of Way (Deed Book 2L7L, Page 381)

Colonial Oil Industries, Inc. Right of Way Easement (Deed Book 10U, Page 663 Plat Record Book Y, Page 12L

Savannah Electric & Power Company Easement for Right of Way (Deed Book 10T, Page 373 Plat Record Book W, Page 85)

Georgia Power Co. Map File No. SL45 Sheet 12 of 15

NGS Vertical Control Disk X395 15.43'

BM #1

LATITUDE: 32.1821750
LONGITUDE: -81.1954460

I.E. = 10.69'

I.E. 12.43'

GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

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VICTORY
UNLIMITED CONSTRUCTION
CONTACT: Larry Longman
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PROJECT NO.: 2021-002

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Lineage

GEORGIA
CERTIFICATE OF AUTHORIZATION
PSC-002260
PROFESSIONAL
5/13/21
ENGINEER
CHADWICK R. ZITTROUER

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV.	DATE	DESCRIPTION

DRAWING NO.:
C-007

TITLE:
FINAL EROSION PLAN

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

EROSION AND SEDIMENTATION CONTROL ACTIVITIES SCHEDULE

TENTAIVE VS. SPECIFIC BEGIN/END DATES	APRIL 2021	MAY 2021	JUNE 2021	JULY 2021	AUGUST 2021	SEPTEMBER 2021
IMPLEMENTATION OF SILT FENCE, SEDIMENT STORAGE & CONSTRUCTION EXIT						
CLEARING, GRUBBING & INSTALL TREE PROTECTION FENCING						
EXCAVATION AND ROUGH GRADING						
CONSTR. OF TEMPORARY & PERMANENT SEDIMENTATION CONTROL & TEMP. GRASSING						
FINISHED GRADING						
PAVING, CONSTRUCTION UTILITIES, ETC.						
REMOVAL OF TEMPORARY SEDIMENTATION CONTROL STRUCTURES						
FINAL STABILIZATION & FINAL GRASSING						
MAINTENANCE OF BMP'S						

NOTE: NO CLEARING AND/OR GRUBBINGACTIVITIES WILL COMMENCE PRIOR TO THE INITIAL PERIMETER & SEDIMENT STORAGE BMP'S ARE IMPLEMENTED UNLESS THOSE ACTIVITIES ARE STRICTLY TO INSTALL SAID BMP'S.

Ds1

SITE PREPARATION
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS TERRACES AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO AMINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS
1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE.
2. WOOD WASTER SHALL BE APPLEIED AT A DEPTHH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE SHOULD REMAIN ON SITE, BECHIPED AND APPLIED AS MULCH.
3. POLYEHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION.

APPLYING MULCH
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS BE APPLIED UNIFORMLY BYHAND OR BY MECHANICAL EQUIPMENT
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20–30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES..

Ds2

Table 6.4.1- *Temporary Cover or Companion Cover Crops*
PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS

Species	Broadcast Rates: Rate per Acre	Broadcast Rates: Pure Live Speed (PLS) per 1000 sqft	Resource Area	Planting Dates by Resource Area	Remarks
BARLEY *Hordeum vulgare*					
alone	3 bu. (144 lbs)	3.3 lbs	M-L	August - November	14,000 seed per pound. Winter hardy, Use on productive soils.
in mixture	1/2 bu. (24 lbs)	0.6 lb	P	August - December	
			C	September - December	
LESPEDEZA, ANNUAL *Lespedeza striata*					
alone	40 lbs	0.9 lb	M-L	February - April	200,000 seed per pound. May volunteer for several years. Use Inoculant EL.
in mixture	10 lbs	0.2 lb	P	February - April	
			C	January - March	
LOVEGRASS, WEEPING *Eragrostis curvula*					
alone	4 lbs	0.1 lb	M-L	March - June	1,100,000 seed per pound. May last for several years. Mix with Sericea lespedeza
in mixture	2 lbs	0.05 lb	P	March - June	
			C	February - June	
MILLET, BROWNTOP *Panicum fasciculatum*					
alone	40 lbs	0.9 lb	M-L	April - June	117,000 seed per pound. Quick dense cover. Will provide excessive competion in mixtures if seeded at high rate.
in mixture	10 lbs	0.2 lb	P	April - July	
			C	April - July	
MILLET, PEARL *Pennesetum glaucum*					
alone	50 lbs	1.1 lbs	M-L	March - July	88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
			P	April - August	
			C	April - August	
OATS *Avena sativa*					
alone	4 bu. (128 lbs)	2.9 lbs	M-L	September - November	13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
in mixture	1 bu. (32 lbs)	0.7 lb	P	September - November	
			C	September - November	
RYE *Secale cereale*					
alone	3 bu. (168 lbs)	3.9 lbs	M-L	July - November	18,000 seed per pound. Quick cover. Drought tolerant and winter hardy.
in mixture	1/2 bu. (28 lbs)	0.6 lb	P	August - December	
			C	January - February September - December	
RYEGRASS, ANNUAL *Lolium temulentum*					
alone	40 lbs	0.9 lb	M-L	January - April August - December	227,000 seed per pound. Dense cover. Very upright tiller and is not to be used in mixtures.
			P	January - April August - December	
			C	January - March August - December	
SUDANGRASS *Sorghum sudanese*					
alone	60 lbs	1.4 lbs	M-L	April - August	55,000 seed per pound. Good on droughty sites. Not recommended for mixtures.
			P	April - August	
			C	March - July	
TRITICALE *X Triticosecale*					
alone	3 bu. (144 lbs)	3.3 lbs	C	January, September–October, December	Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
in mixture	1/2 bu. (24 lbs)	0.6 lb			
WHEAT *Triticum aestivum*					
alone	3 bu. (180 lbs)	4.1 lbs	M-L	September - December	15,000 seed per pound. Winter hardy,
in mixture	1/2 bu. (30 lbs)	0.7 lb	P	October - December	
			C	January, October–December	

Temporary cover crops are very competitive and will crowed out perennials if seeded too heavily
*Reduce seeding rates by 50 % when drilled.
M-L represents the Mountain, Blue Ridge and ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents Southern Coastal Plain,Sand Hills, Black Lands, and Atlantic Coast Flatwoods MLRAs

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR PH.

Table 6.4.2- *Permanent Cover Crops*
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER

Species	Broadcast Rates: Rate per Acre[1]	Broadcast Rates: Pure Live Speed (PLS) per 1000 sqft	Resource Area[2]	Planting Dates by Resource Area	Remarks
BAHIA, PENSACOLA *Paspalum notatum*					
alone or with te temporary cover	60 lbs	1.4 lbs	P	March - June	594,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will spread
with other perennials	30 lbs	0.7 lb	C	February - May	
BAHIA, WILMINGTON *Paspalum notatum*					
alone or with te temporary cover	60 lbs	1.4 lbs	M-L	March - May	
with other perennials	30 lbs	0.7 lb	P	February - May	Same
BERMUDA, COMMON *Cynodon dactyle*					
hulled seed			P	April - May	1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fileds.
alone	10 lbs	0.2 lb	C	April - May	
with other perennials	6 lbs	0.7 lb			
BERMUDA, COMMON *Cynodon dactyle*					
Unhulled seed					
with temporary cover	10 lbs	0.2 lb	P	January - May October - December	Plant with winter annuals
with other perennials	6 lbs	0.1 lb	C	January November - December	Plant with Tall Fescue
BERMUDA SPRING'S *Cynodon dactyle*					
Coastal, Common, Midland, or Tifi 44	40 cu ft or sod plugs 3' x 3'	0.9 cu ft	M-L	April - June	A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 sprigs.
			P	April - June	
Coastal, Common, of Tifi 44			C	March - May	Same as above
Tifi 78			C	April - May	Southern Coastal Plain only
CENTIPEDE *Eremochloa Ophiuroides*					
	Block sod only		P	January - May November - December	Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in concentrated flow areas irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far as north Athens and Atlanta.
			C	January - May November - December	
CROWNVETCH *Coronilla varia*					
with winter annuals or cool season grasses	15 lbs	0.3 lb	M-L	September - October	330, seed per pound. Dense growth. Drought tolerant and fire resistant. Attractive rose, pink and white blossoms spring to late fall. Mix with 30 pounds of Tall fescue or 15 pounds of rye . Inoculate see with M inoculant. Use from North Atlanta and Northward.
			P	September - October	
FESCUE, TALL *Festuca arundinacea*					
alone	50 lbs	1.1 lb	M-L	March - April August - October	227,000 seed per pound. Use alone only on better sites. Mix with perennial lespedeza or Crownvetch. Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields.
with other perennials	30 lbs	0.7 lb	P	August - October	
KUDZU *Pueraria thumbergiana*					
Plants or crowns	3' - 7' apart		ALL	January - March	Rapid and vigorous growth. Excellent in gully erosion control. Will climb. Good livestock forage.
LESPEDEZA SERICEA *Lespedeza cuneata*					
scarified	60 lbs	1.4 lb	M-L	April - May	350,000 seed per pound. Widely adapted. Low maintenance. Mix with Weeping lovegrass, Common bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant.
			P	March - May	
unscarified	75 lbs	1.7 lb	C	February - May	
			M-L	January - February	
			P	January - February	
seed - bearing hay	3 tons	1338 lbs	C	January - February	Mix with Tall fesue or winter annuals.
			M-L	January	Cut when seed mixture is mature, but before, it shatters. Add Tall fescue or winter annuals.
			P	January	
			C	January	
LESPEDEZA *Ambro virgata Japonlespe virgata DC* or ***Appalone*** *cespedeza cuneata (Dumont) G. Don*					300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban areas. Spreading-type growth. New growth has bronze coloration. Mix with weeping lovegrass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Sericea lespedeza. Slow to develop solid stands. Inoculate seed with EL inoculant.
			M-L	March - May	
			P	March - May	
scarified	60 lbs	1.4 lb	C	February - May	
			M-L	January - February	
			P	January - February	
unscarified	75 lbs	1.7 lb	C		
LESPEDEZA, SHRUB *Lespedeza bicolor Lespedeza thunnergii*					
plants	3' x 3'		M-L	January - March	Provide wildlife food and cover.
			P	January - March	
			C	January - February	
LOVEGRASS, WEEPING *Eragrostis curvuse*					
alone	4 lbs	0.1 lb	M-L	March - May	1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea lespedeza on roadbanks.
			P	March - May	
with other perennials	2 lbs	0.05 lb	C	March - May	
MAIDENCANE *Panicum hemitomon*					
runner	2' x 3' spacing	Adj.		February - April	For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
PANICGRASS, ATLANTIC COASTAL *Panicum amarum var amarulum*					
			P	March - April	Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes.
	20 lbs	0.5 lb	C	March - April	
REED CANARY GRASS *Phalaris arundinacea*					
alone	50 lbs	1.1 lb	M-L	August - October	
with other perennials	30 lbs	0.7 lb	P	August - October	Grows similar to Tall fescue
SUNFLOWER, "ATTRI" MAXIMILLIAN *Helianthus maximilleri*					
			M-L	April - May	227,000 seed per pound. Mix with Weeping lovegrass or other low-growing grasses or legumes.
	10 lbs	0.2 lb	P	April - May	
			C	April - May	

1 Reduce seeding rates by 50% when drilled.
2 PLS is an abbreviation for Pure Live Seed. Refer to Section V E. of these specifications.
3 M-L represent to Mountain, Blue Ridge, and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents the Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coast Flatwoods MLRAs, See Figure 6-4.1

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR PH.

TABLE 6-1.1. FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	1-10-10	1500 lbs./ac.	50-100 lbs./ac. 1/3/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes.	First	06-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	
	Second	10-10-10	1300 lbs./ac. 3/	
	Maintenance	10-10-10	1100 lbs./ac.	
4. Pine seedlings	First	20-10-5	one 21 gram pellet per seedling placed in the closing hole	
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	
	Maintenance	0-10-10	700 lbs./ac.	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	50 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/4/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 3/
	Maintenance	10-10-10	400 lbs./ac.	50 lbs./ac.
8. Warm season grasses and legumes.	First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply when plants are dormant.
4/ Apply when plants greenup.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

COASTAL SWCD
Project Name: PROJECT BAJOR
Address: HENDLEY ROAD
City/County: PORT WENTWORTH, GEORGIA
Date on Plans: 5/13/2021
NAME AND EMAIL: LINEAGE LOGISTICS

TO BE SHOWN ON ES&PC PLAN

PAGE #	Y/N		
	Y	1.	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1of the year in which the land-disturbing activity was permitted,(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional.(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
	N/A	3.	Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.*(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)
SESC 6	Y	4.	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
SESC2	Y	5.	Provide the name, address and phone number of primary permittee.
SESC2	Y	6.	Note total and disturbed acreage of the project or phase under construction.
SESC2	Y	7.	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
COVER	Y	8.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
SESC6	Y	9.	Description of the nature of construction activity.
SESC2	Y	10.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
SESC6	Y	11.	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc., which may be affected.
SESC5	Y	12.	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC plan as stated on part iv page 23 of the permit.
SESC5	Y	13.	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on part iv pg 22 of the permit.*
SESC5	Y	14.	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."*
SESC6	Y	15.	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25 feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
	N/A	16.	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
SESC5	Y	17.	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
SESC5	Y	18.	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
SESC6	Y	19.	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
SESC6	Y	20.	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
SESC6	Y	21.	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
SESC6	N/A	22.	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III, C of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
SESC6	N/A	23.	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
SESC5	Y	24.	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drumat the construction site is prohibited.*
SESC5	Y	25.	Provide BMPs for the remediation of all petroleum spills and leaks.
SESC6	Y	26.	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
SESC6	Y	27.	Description of practices to provide cover for building materials and building products on site.
SESC4	Y	28.	Description of the practices that will be used to reduce the pollutants in storm water discharges.*
SESC5	Y	29.	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

PAGE #	Y/N		
SESC5	Y	30.	Provide complete requirements of inspections and record keeping by the primary permittee.*
SESC5	Y	31.	Provide complete requirements of sampling frequency and reportinof sampling results.*
SESC5	Y	32.	Provide complete details for retention of records as per Part IV.F. of the permit.*
SESC6	Y	33.	Description of analytical methods to be used to collect and analyze the samples from each location.*
SESC1,2,3	Y	34.	Appendix B rationale for NTU values at all outfall sampling points where applicable.*
SESC4	Y	35.	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
SESC2	Y	36.	A description of appropriate controls and measures that will be implemented at the construction site including; (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage
SESC2	Y		BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
		37.	Graphic scale and north arrow.
		38.	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0,5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

	N/A	39.	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
ALL	Y	40.	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 edition*
ALL	Y	41.	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
POST	Y	42.	Delineation of on-site wetlands and all state waters located on and within 200 feet of the
HYDRO	Y		project site.
PRE&POST	Y	43.	Delineation and acreage of contributing drainage basins on the project site.
		44.	Provide hydrology study and maps of drainage basins for both the pre- and post-developed
SESC1,2,3	Y		conditions.*
		45.	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after
SESC1,2,3	Y		construction activities are completed.
ALL	Y	46.	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate
SESC4	Y		discharges without erosion.Identify/Delineate all storm water discharge points.
		47.	Soil series for the project site and their delineation.
		48.	The limits of disturbance for each phase of construction.
		49.	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
SESC1,2,3	Y		
SESC7	Y	50.	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
SESC7	Y	51.	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
		52.	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2021

SEDIMENT STORAGE CALCULATIONS:

DISTURBED AREA = -- AC

REQUIRED STORAGE:
67 CY/AC x -- AC = -- CY
-- CY x 27CF/CY = -- CF OF REQUIRED STORAGE

PROVIDED STORAGE :
(ELEV A – ELEV B)(-- SF AT ELEV A + -- SF AT ELEV B) / 2 = -- CF
OF PROVIDED STORAGE

CHAD ZITTROUER **GSWCC CERTIFICATION # 8150**

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Architects • Landscape Architects • Environmental Scientist
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Lineage

GEORGIA REGISTERED PROFESSIONAL ENGINEER 5/13/21 CHRISTOPHER R. ZITTROUER

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV.	DATE	DESCRIPTION

DRAWING NO.: C-008

TITLE: EROSION DETAILS-1

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

Hazardous Wastes:

All hazardous waste materials will be disposed of in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous waste will be allowed to come in contact with stormwater discharges. If such contact occurs, the stormwater discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

Sanitary Wastes:

A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on the Intermediate Erosion Control Plan Sheet by the contractor once the locations have been determined.
Sanitary Sewer will be provided by Municipal Authority/Septic System at the completion of this project.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

Waste Materials:

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried onsite.

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the contractor will be responsible for seeing that these procedures are followed.
ALL DISCHARGES FROM THIS SITE SHALL BE COMPOSED ENTIRELY OF STORM WATER WITH THE FOLLOWING EXCEPTIONS:

ACCEPTABLE NON-STORM WATER DISCHARGES

Storm water discharge from a construction site or construction activities that is mixed with a storm water discharge from an industrial source or activity other than construction where:

a. the industrial source or activity other than construction is located on the same site as the construction activity and is an integral part of the construction activity;

b. the storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of NPDES Permit No. GAR100001; and

c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring are covered by a different NPDES general permit or individual permit authorizing such discharges and the discharges are in compliance with a different NPDES permit.

d. discharges from fire fighting activities; fire hydrant flushing; potable water sources including water line flushing; irrigation drainage; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials or pollutants.

Spill Cleanup and Control Practices:

- Local, State and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
- Material and equipment necessary for spill cleanup will be kept in the material storage areas. Typical materials and equipment includes, but is not limited to brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust and properly Labeled plastic and metal waste containers.
- Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
- All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State and Federal regulations.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-6602.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITH IN 24 HOURS AT 1-800-424-6602.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE EPD WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

The contractor shall notify the licensed professional who prepared this plan if more than 1320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. The Contractor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licensed professional.

Product Specific Practices:

Petroleum Based Products - Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minmize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

Points/Finishes/Solvents - All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

Concrete Truck Washing - NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite.

Fertilizer/Herbicieds - These products will be applied at rates that do not exceed
the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.

Building Materials - No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

INSPECTIONS:

Permittee Requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect:(a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary the site for the evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination has been submitted.
(2). Measure rainfall once every 24 hours except and non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day , whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measure are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible , they shall be inspected to ascertain whether erosion control measure are effective in preventing significant impacts to receiving water(s).
(5). Based on the results of each inspection,the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.
(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.4.a.(5).of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/ or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify an incident, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

5. Maintenance
The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

6. Sampling Requirements
This permit requires the monitoring of nephelometric turbidity in receiving waters or outfalls in accordance with this permit. This section is applicable to primary permittees with a total planned disturbance equal to or greater than one (1) acre and tertiary permittees with a total planned disturbance equal to or greater that five (5) acres. This section is not applicable to secondary permittees. The following procedures constitute EPD's guidelines for sampling turbidity.

a. Sampling Requirements shall include the following:
(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is equal to or more detailed that a 1:24000 map showing the location of the site or the common development: (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) must be hand-drawn on the USGS topographic map from where the storm water(s) enter the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;
(2). The analytical method used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;
(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and
(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the timeline for submittal.

b. Sample Type. All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titles "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.
(1). Sample containers should be labeled prior to collecting samples.
(2). Samples should be well mixed before transferring to a secondary container.
(3). Large mouth, clean and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized, and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed using a direct reading, properly calibrated turbidimeter. Samples are not required to be cooled.
(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. Sampling Points
(1). For construction activities the primary permittee with a total planned disturbance equal to or greater than one (1) acre and tertiary permittee with a total planned disturbance equal to or greater than five (5) acres must sample all receiving waters , or all outfalls, or a combination of receiving water and outfalls. Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving waters and/or the storm water outfalls using the following minimum guidelines:
(a) The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving waters may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.
(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e.,the discharge furthest downstream at the site) but upstream of any other storm water discharge not associated with permitted activity. Where appropriate, several downstream samples from across the receiving waters may need to be taken and arithmetic average of the turbidity of these samples used for the downstream turbidity value.
(c) Ideally the samples should be taken from horizontal and vertical center of the receiving waters or the storm water outfall channels.
(d) Care should be taken to avoid stirring the bottom sediments in the receiving waters or in the outfall storm water channel.
(e) The sampling container should be held so that the opening faces upstream.
(f) The samples should be kept free from floating debris.
(g) Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section , stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscape areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and seeding of target crop perennials appropriate for the region).
(h) All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency)as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts II.D.3. or II.D.4., whichever is applicable.

d. Sampling Frequency.
(1) The primary permittee must sample in accordance with Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and,or from a monitored outfall within forty-five (45) minutes or as soon as possible.,
(2) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittes control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after beginning of the storm water discharge.
(3) Sampling by the permittee shall occur for the following qualifying events:
(a) For each area of the site that discharges to a receiving water or from an outfall, the first rain event reaches or exceeds 0.5 inch with a storm water discharge that allows for sampling during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location.
(b) In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in the permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;
(c) At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed , installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs or properly designed, installed and maintained;
(d) Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6)., or the tertiary permittee, in accordance with Part IV.D.4.c.(6)., must include a written justification in inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and
(e) Existing construction activities , i.e., those that are occurring on or before the effective date of this permit, that must met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.
*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week
(7) Non-storm water discharges. Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2. of this permit that are combined with stormwater discharge associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for non-storm water components of the discharge.

A. Reporting

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the report period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
2. All sampling reports shall include the following information:
a. The rainfall amount, date, exact place and time of sampling or measurements;
b. The name(s) of the certified personnel who performed the sampling and measurements;
c. The date(s) analyses were performed;
d. The time(s) analyses were initiated;
e. The name(s) of the certified personnel who performed the analyses;
f. References and written procedures, when available, for the analytical techniques or methods used;
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU," and
i. Certification statement that sampling as conducted as per the Plan.
3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The applicable permittees shall retain a copy of the proof of submittal at the construction site or the proof of the submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

F. Retention of Records

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all sampling information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit.
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.
2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the primary permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at anytime upon written notification to the permittee.

STORMWATER SAMPLING
SAMPLE ANALYSIS

Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001."

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding 50, the value that was selected from Appendix B in Permit No. GAR100001. The NTU is based upon the disturbed acreage of 30 acres for the project site, the surface water drainage area of 4 square miles, and receiving water which supports warm water fisheries.

An "Erosion & Sedimentation Inspection and Maintenance Report" sheet is attached. Should inspection reveal any deficiencies, a copy of the report shall be sent to:

ATTN: Lineage Logistics
Attn: Ken Burke
3819 Maple Ave - Dallas, TX
402-660-0989

ATTN: Kern & Co.
7 Mall Court
Savannah, GA 31406
912-354-8400

Governing Agency: Georgia Environmental Protection Division
Coastal District - Brunswick Office
One Conservation Way
Brunswick, GA 31520
1-800-241-4113

The design professional who prepared the ES&PC plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION: _____

I Certify the site was in compliance with the ES&PC Plan on the date of inspection.

_____
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

Inspection revealed the following discrepancies from the ES&PC Plan.

_____
_____
_____

These deficiencies must be addressed within two days and a re-inspection scheduled.
Work shall not proceed on the site until design Professional Certification is obtained.

ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

CHAD ZITTROUER GSWCC CERTIFICATION # 8150

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

CHAD ZITTROUER GSWCC CERTIFICATION # 8150

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

VICTORY
UNLIMITED CONSTRUCTION
CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

rkb architects, Inc.
2600 Campanelli drive, brairtree, ma 02184
p 781.848.6600 f 781.848.6660 w rkbarch.com

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Lineage

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHADWICK R. ZITTROUER 5/13/21

Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026
PROJECT:

REVISION SCHEDULE
REV.: DATE: DESCRIPTION:

DRAWING NO.: C-009

TITLE: EROSION DETAILS-2

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

SECONDARY PERMITTEES

NOTE: THIS MASTER LIST TO BE COMPLETE AND SIGNED. KEPT IN THE ON SITE CONSTRUCTION TRAILER

SECONDARY PERMITTEE'S SIGN WHEN RECEIVING PLANS. ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOI AT LEAST 14 DAYS PRIOR TO BEGINNING CONSTRUCTION ACTIVITY.

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS: _____
GSWCC LEVEL IA CERTIFICATION NO. _____ SIGNATURE

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS: _____
GSWCC LEVEL IA CERTIFICATION NO. _____ SIGNATURE

APPENDIX B

Nephelometric Turbidity Unit (NTU) Tables

Cold Water (Trout Stream)

		Surface Water Drainage Area, square miles							
		0–4.99	5–9.99	10–24.99	25–49.99	50–99.99	100–249.99	250–499.99	500+
Site Size, acres	1.00–10	25	50	75	150	300	500	500	500
	10.01–25	25	25	50	75	150	200	500	500
	25.01–50	25	25	25	50	75	100	300	500
	50.01–100	20	25	25	35	59	75	150	300
	100.01+	20	20	25	25	25	50	60	100

Warm Water (Supporting Warm Water Fisheries)

		Surface Water Drainage Area, square miles							
		0–4.99	5–9.99	10–24.99	25–49.99	50–99.99	100–249.99	250–499.99	500+
Site Size, acres	1.00–10	75	150	200	400	750	750	750	750
	10.01–25	50	100	100	200	300	500	750	750
	25.01–50	50	50	100	100	200	300	750	750
	50.01–100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

To use these tables, select the size (arces) of the facility or common development. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use.

EROSION AND SEDIMENT NARRATIVE NOTES

1. DESCRIPTION: AN 220,000 SF COLD STORAGE FACILITY WITH ASSOCIATED SITE IMPROVEMENTS.
2. SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION: FOR INFORMATION REGARDING THE SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION PLEASE REFERENCE THE PAVING, GRADING, AND DRAINAGE PLAN, AND THE SOIL EROSION PLAN OF THE CONSTRUCTION DRAWINGS. THE ENTIRE SITE IS COMPOSED OF SOIL TYPE
3. VEGETATION: THE EXISTING SITE IS CURRENTLY CLEARED.
4. EROSION CONTROL PROGRAM: VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. LAND WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTILLATION OF STORM DRAIN OUTLET PROTECTION DEVICES. STORM DRAIN OUTLET PROTECTION DEVICES.
5. SEDIMENT CONTROL PROGRAM: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF SILT FENCE. A CONSTRUCTION EXIT BE INSTALLED TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE SITE BY VEHICULAR TRAFFIC.
6. STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
7. SAFETY PROTECTION: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.
8. MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE DEVICES WILL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.
9. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
10. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.
11. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."
12. **THERE ARE NO STATE WATERS ON OR WITHIN 200' OF THIS SITE.** NO WRESTED VEGETATION – NO BUFFER REQUIRED.
13. ALL NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AAS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION WITHOUT FIRST ACQUIREING THE NECESSARY VARIANCES AND PERMITS.
14. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:
    KERN & CO., LLC
    P.O. BOX 15179
    SAVANNAH, GA 31416
    912.354.8400
15. DEVELOPER/OWNER/PRIMARY PERMITTEE:
    ATTN: Lineage Logistics
    Attn: Ken Burke
    3819 Maple Ave – Dallas, TX
    402-660-0989
16. TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL: SHERRY KERN, KERN & CO., LLC 912-547-8402
17. DRAINAGE FLOWS THROUGH ? AND THEN INTO ?
18. RUNOFF COEFFICIENT
    PRE DEVELOPED: ?
    POST DEVELOPED: ?
19. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.**
20. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
21. ALL GRASSING SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS 1983 EDITION
22. CONTRACTOR SHOULD BE RESPONSIBLE FOR NOTIFYING THE ENGINEER SEVEN DAYS PRIOR TO CONSTRUCTION. IF CONTRACTOR FAILS TO NOTIFY ENGINEER A $1,000.00 FINE SHOULD BE ACCESSED.
23. HYDRAULIC SEEDING SHALL INCLUDE THE SEED, FERTILIZER, & WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER. APPLY IN A SLURRY UNIFORMLY OVER THE AREA AT A RATE OF 500 LBS/ACRE.
24. THE OPERATOR WILL ENSURE THAT ALL MEASURES AND FACILITIES FOR CONTROL OF EROSION AND SEDIMENTATION DURING SITE PREPARATION, OPERATION, AND/OR RECLAMATION ACTIVITIES SHALL ADHERE TO THE FOLLOWING:
25. ALL EROSION AND SEDIMENTATION CONTROL MEASURES OR FACILITIES, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONTINUOUSLY MAINTAINED BY THE OPERATOR, SO AS TO BE EFFECTIVE.
26. SEDIMENT IN SURFACE RUNOFF WATER SHALL BE TRAPPED BY USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS, SEDIMENT BARRIERS OR SIMILAR STRUCTURES.
27. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS POSSIBLE. TEMPORARY VEGETATION AND/OR MULCH SHALL BE EMPLOYED WHERE NECESSARY TO PROTECT EXPOSED CRITICAL AREAS UNTIL PERMANENT VEGETATION OR STABILIZATION IS ATTAINED.
28. NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED WHEREVER FEASIBLE TO PROVIDE FOR NATURAL BUFFER AREAS.
29. DIVERSIONS, DIKES, AND BERMS SHALL BE EMPLOYED TO RETAIN, DIRECT AND CONTROL SURFACE WATER RUNOFF FROM AFFECTED AREAS INTO SEDIMENT CONTROL STRUCTURES.
30. ALL SURFACE WATER DISCHARGES SHALL BE CONTROLLED AND RELEASED AT A NON-EROSIVE VELOCITY ONTO STABILIZED AREAS OR INTO STABILIZED CHANNELS.

CHAD ZITTROUER
GSWCC CERTIFICATION # 8150

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

VICTORY
UNLIMITED CONSTRUCTION
CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

rkb architects, Inc.
zero campanelli drive, braintree, ma 02184
p 781.848.6600 f 781.848.6660 w rkbarch.com

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Lineage

GEORGIA REGISTERED PROFESSIONAL ENGINEER 34282 CHADWICK R. ZITTROUER 5/13/21

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV.	DATE	DESCRIPTION

DRAWING NO.: C-010

TITLE: EROSION DETAILS-3

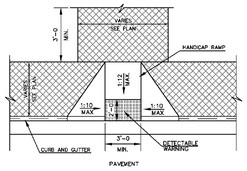
Attachment: 7-0977-01-028 HENDLEY RD LINEAGE 5-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

DETECTABLE WARNINGS ON WALKING SURFACE OF HANDICAP RAMP

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23mm), A HEIGHT OF NOMINAL 0.2 IN (5mm) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60mm) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE

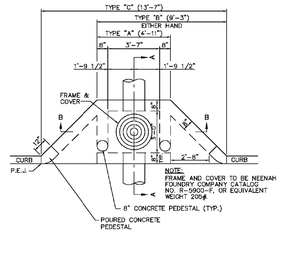
SURFACES SHALL MEET THE ADA ACCESSIBILITY GUIDELINES SECTION 4.29.2.



HANDICAP RAMP TYPE "A"

City of Port Wentworth TECHNICAL DETAILS P-4

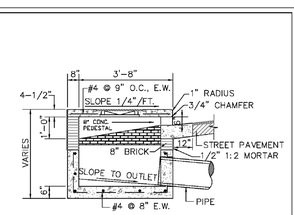
PREPARED BY STEVENSON & PALMER ENGINEERING, INC. SCALE: N.T.S. DATED: FEBRUARY 2007



PLAN OF CURB INLET

City of Port Wentworth TECHNICAL DETAILS SD-1

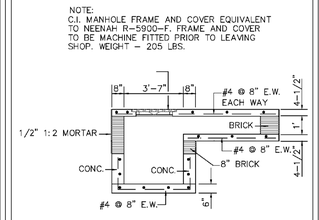
PREPARED BY STEVENSON & PALMER ENGINEERING, INC. SCALE: N.T.S. DATED: FEBRUARY 2007



CURB INLET SECTION A – A

City of Port Wentworth TECHNICAL DETAILS SD-3

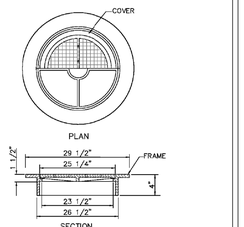
PREPARED BY STEVENSON & PALMER ENGINEERING, INC. SCALE: N.T.S. DATED: FEBRUARY 2007



CURB INLET SECTION B – B

City of Port Wentworth TECHNICAL DETAILS SD-4

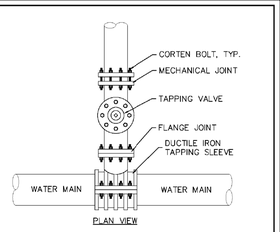
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INLET FRAME & COVER

City of Port Wentworth TECHNICAL DETAILS SD-5

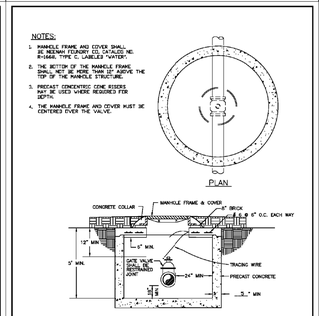
PREPARED BY STEVENSON & PALMER ENGINEERING, INC. SCALE: N.T.S. DATED: FEBRUARY 2007



STANDARD TAPPING SLEEVE

City of Port Wentworth TECHNICAL DETAILS W-5

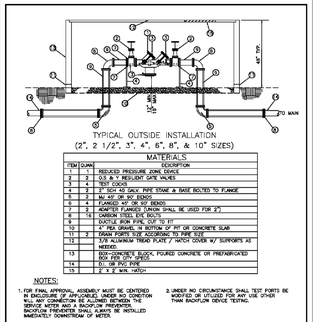
PREPARED BY STEVENSON & PALMER ENGINEERING, INC. SCALE: N.T.S. DATED: FEBRUARY 2007



VALVE MANHOLE FOR 8" & GREATER GATE VALVE

City of Port Wentworth TECHNICAL DETAILS W-14

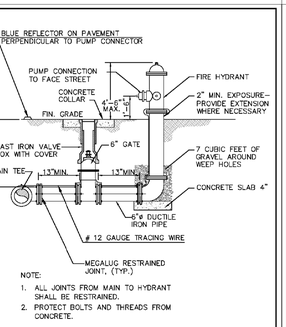
PREPARED BY STEVENSON & PALMER ENGINEERING, INC. SCALE: N.T.S. DATED: FEBRUARY 2007



REDUCED PRESSURE DETECTOR FOR FIRE SYSTEM

City of Port Wentworth TECHNICAL DETAILS W-24

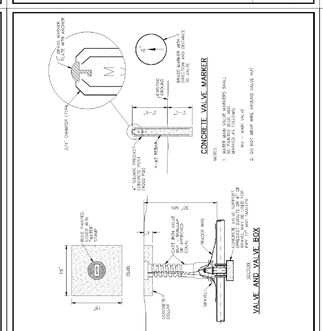
PREPARED BY STEVENSON & PALMER ENGINEERING, INC. SCALE: N.T.S. DATED: FEBRUARY 2007



STANDARD FIRE HYDRANT

City of Port Wentworth TECHNICAL DETAILS W-9

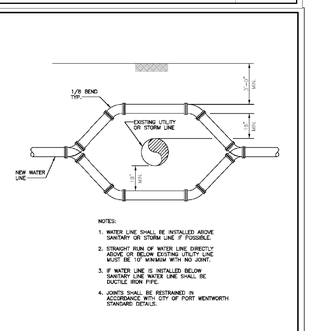
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WATER VALVE 4" OR 6"

City of Port Wentworth TECHNICAL DETAILS W-36

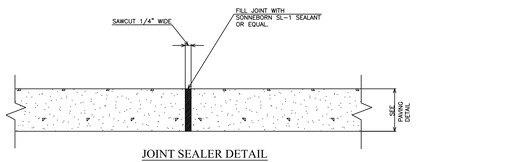
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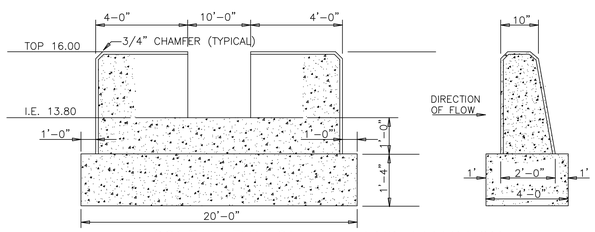
STANDARD UTILITY CROSSING

City of Port Wentworth TECHNICAL DETAILS W-6

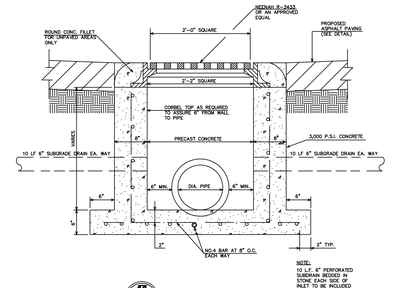
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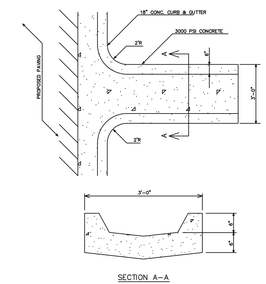
P-19 CONCRETE PAVEMENT



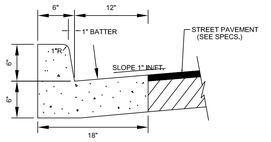
D-26 RETANGULAR WEIR



D-5 GRATE INLET



D-21 CONCRETE FLUME



NORMAL GUTTER

P-3 18" CURB AND GUTTER

VICTORY UNLIMITED CONSTRUCTION
CONTACT: Larry Longman
PHONE: +1(317) 777-6289
EMAIL: llongman@victoryuc.com
PROJECT NO.: 2021-002

rkb architects, Inc.
zeno campanelli drive, brainfree, ma 02184
p 781.848.6600 f 781.848.6660 w rkbarch.com

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Lineage

GEORGIA CERTIFICATE OF AUTHORIZATION NO. PEO2000 PROFESSIONAL ENGINEER 5/13/21 CHADWICK R. ZITTROUER

DATE ISSUED: XX.XX.XXXX
DRAWN BY: RJD
SCALE: As Noted
CONSULTANT PROJECT NO.: 2026

PROJECT:
Project Bajor
xxx Name Street,
Port Wentworth GA, 31407

REVISION SCHEDULE

REV.	DATE	DESCRIPTION

DRAWING NO.: C-011

TITLE: SITE DETAILS

Kern & Co., LLC
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientist
7 Mall Court (31406) P.O. Box 15179 (31416) Savannah, Georgia (912) 354-8400
319 Walnut Street Suite A Statesboro, Georgia 30458 Phone: (912) 225-3373

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Site Plan 5.12.21 (2456 : Site Plan Review Application (Specific) 7-0977-01-028 Lineage)

CITY OF PORT WENTWORTH

PLANNING COMMISSION

JUNE 14, 2021

Council Meeting Room | **Regular Meeting** | **6:30 PM**

7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

1. CALL MEETING TO ORDER

Chairman CJ Neesmith called the meeting to order.

2. PRAYER AND PLEDGE OF ALLEGIANCE

Commissioner Herrin led the Prayer and Pledge of Allegiance

3. ROLL CALL - SECRETARY

Attendee Name	Title	Status	Arrived
Bill Herrin	Planning Commissioner	Present	
Rufus Bright	Planning Commissioner	Absent	
Rosetta Franklin	Planning Commissioner	Present	
Wanda Rollf	Planning Commissioner	Present	
Lauree Morris	Planning Commissioner	Absent	
CJ Neesmith	Planning Commissioner	Present	
Gabrielle Nelson	Planning Commissioner	Present	
Melanie Ellis	Building Inspector	Present	

4. APPROVAL OF AGENDA

1. Approval of Agenda

Motion to approve the agenda with the following changes: Table item 6.A to the next available Planning Commission meeting at the applicants request and text change in item 8.B by changing "General" to "Specific" on line three.

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

5. ADOPTION OF MINUTES

A. Planning Commission - Regular Meeting - May 10, 2021 7:00 PM

Attachment: Planning Commission Agenda Minutes June 14, 2021 DRAFT (2456 : Site Plan Review Application (Specific) 7-0977-01-028

RESULT:	**ACCEPTED [UNANIMOUS]**
MOVER:	Gabrielle Nelson, Planning Commissioner
SECONDER:	Bill Herrin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

6. ZONING MAP AMENDMENTS (REZONING)

A. Zoning Map Amendment Application submitted by Phillip McCorkle, McCorkle, Johnson, McCoy, LLP., of behalf of Samuel Varnedoe, Jr., and Comer Varnedoe Meadows, for PIN's #'s 7-0976-02-044, portion of 7-0976-02-043, 7-0976-02-042, 7-0976-02-040, 7-0976-02-039, 7-0976-02-037, and a portion of 7-0976-02-036 (Saussy Road) to Rezone from RA (Residential Agriculture) to P-I-1 (Planned Industrial) Zoning District for the purpose of Warehousing

Item tabled to next available meeting per applicants request.

RESULT:	**DELAYED [UNANIMOUS] Next: 7/12/2021 6:30 PM**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

7. ZONING TEXT AMENDMENTS (ORDINANCES)

8. SITE PLAN/SUBDIVISION APPROVAL

A. Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of Northpoint Industrial, LLC., for of PIN #'s 7-0039-01-017, 7-0039-01-018Y, 7-0039-01-018Z, 7-0039-01-022Y, 7-0039-01-022Z, 7-0039-01-040, 7-0039-01-042, 7-0039-01-043 (120 Pinderpoint Road) for a Specific Development Site Plan to allow a Trailer Yard in a P-I-1 (Planned Industrial) Zoning District

Mark Crapps, Kern & Co., LLC., was present on behalf of the applicant and offered to answer any questions the commission may have. There were no questions/comments from the commission. There were no public comments. Commissioner Herrin made a motion to approve the application. Commissioner Rollf seconded the motion. The vote was unanimous.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Wanda Rollf, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

B. Site Plan Review Application submitted by Chad Zittrouer, Kern & Co., LLC., on behalf of CH Realty IX - Sansone, Savannah 21-95, L.P., for a portion of PIN # 7-0977-01-028 (Hendley Road) for a Specific Development Site Plan to allow a Warehouse / Distribution Center (Lineage) in a P-I-2 (Planned Industrial) Zoning District

Mark Crapps, Kern & Co., LLC., was present on behalf of the applicant. Mr. Crapps gave a brief overview of the project and offered to answer any questions the commission may have. Commissioner Nelson asked if any changes have been made from the approved concept plan. Mr. Crapps responded no. There were no public comments. Commissioner Rollf made a motion to approve the application. Commissioner Franklin seconded the

Attachment: Planning Commission Agenda Minutes June 14, 2021 DRAFT (2456 : Site Plan Review Application (Specific) 7-0977-01-028

motion. Commissioners Herrin, Franklin, and Rollf voted Yes. Commissioner Nelson voted No. The motion passes 3-1.

RESULT:	**APPROVED [3 TO 1]**
MOVER:	Wanda Rollf, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf
NAYS:	Nelson
ABSENT:	Bright, Morris

9. NEW BUSINESS

10. ADJOURNMENT

A. Adjournment

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Bill Herrin, Planning Commissioner
SECONDER:	Rosetta Franklin, Planning Commissioner
AYES:	Herrin, Franklin, Rollf, Nelson
ABSENT:	Bright, Morris

_____
Chairman

The foregoing minutes are true and correct and approved by me on this _____ day of _____, 2021.

_____
Secretary

Attachment: Planning Commission Agenda Minutes June 14, 2021 DRAFT (2456 : Site Plan Review Application (Specific) 7-0977-01-028

HYDROLOGY REPORT

FOR Ken Burke

LINEAGE LOGISTICS

0 Hendley Rd.
Port Wentworth, GA 31407

PROJECT NO. 210067.010



PREPARED BY:

KERN & CO., LLC
P.O. BOX 15179
7 MALL COURT
SAVANNAH, GA 31416
(912)-354-8400
FAX (912)-356-1865

May 17, 2021

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

TABLE OF CONTENTS

SECTION 1 – PROJECT NARRATIVE / SITE OVERVIEW

1. **Site Overview:**
   - Design Requirements
   - Sedimentation and Erosion Control
   - Stormwater Quality and Management
2. **Pre-Development Analysis Summary:**
   - Pre-Development Drainage Area 1
3. **Post-Development Analysis Summary:**
   - Post-Development Drainage Area 1 (Routed Pond-2)
   - Existing Flows from Building 1 Site (Routed Ex. Swale)
   - Combined Post Development Flows from Pond-2 Routed and Ex. Swale Routed
4. **Wet Detention Pond Calculations (Building 2 Pond):**
   - Detention Pond Volume (Stage/Storage)
   - Detention Pond Runoff and Elevation Summary
5. **Ex. Swale Calculations (Building 1 Project Area Flows into Ex. Swale)**
   - Ex. Swale Volume (Stage/Storage)
   - Ex. Swale Runoff and Elevation Summary
6. **Whole Combined Network Calculations (Building 2 Pond and Ex. Building 1 Project Area Routed through Combined Network)**
   - Combined Network Volume – Building 2 Pond and Ex. Swale (Stage/Storage)
   - Combined Network Runoff and Elevation Summary
7. **Conclusions**
   - Pre vs. Post Development Runoff Analysis Summary

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

SECTION 2 – HYDROLOGIC CALCULATIONS (PRE VS. POST ANALYSIS)

APPENDICES

A – Calculation Methods & Reference Equations

B – Geotechnical report

Pre-Development and Post-Development Exhibits

1. PROJECT NARRATIVE / SITE OVERVIEW

GENERAL PROJECT INFORMATION

The Lineage Logistics 1 project consists of the construction of approximately 225,000 sf of refrigeration warehouse space and office space with a footprint of 14,000 sf located off 0 Hendley Road in the city of Port Wentworth, Georgia. The property is currently designated as Part of Parcel Bella N. Horning Act. The overall tract has been subdivided into two separate parcels. This portion of the overall project consists of approximately 29.3 acres total as shown on the construction plans and survey performed by Kern and Company, LLC.

This property currently consists of a single Tax Parcel; No. 70977 01028. Approximately 100 percent of the site was wooded before clearing.

There are four different soil types located within the proposed limits of construction per the web soil survey report on this site and are as follows:

• Cc	Cape Fear	Hydrologic Soil Group B/D
• Pj	Pelham loamy Sand	Hydrologic Soil Group C/D
• Oj	Ocilla Complex	Hydrologic Soil Group B/D
• Ok	Ogeechee Loamy Fine Sand	Hydrologic Soil Group B/D

This information was taken from the Web Soil Survey 2.1 – National Cooperative Soil Survey by NRCS).

DESIGN REQUIREMENTS

- Define the limits of the drainage basin or basins that contain this project. In this design we are utilizing only disturbed area.

- Document that major drainage infrastructure such as drainage connectors, ponds, and outfalls are adequate for all existing, proposed, and future development within the drainage basin.

- Document compliance with regulatory requirements of the State of Georgia and the City of Port Wentworth summarized as follows.

Georgia EPD

1) Sediment shall be prevented from leaving the site during construction.

City of Port Wentworth

1) **Stormwater Runoff Reduction**
    i) Reduce on-site runoff volume to the maximum extent practicable.
2) **Overbank Flood Protection**
    i) Peak discharge rates shall be detained for the 100-year 24-hour storm event so that post-development rates do not exceed pre-development rates.
3) **Extreme Flood Protection**
    i) Control or safety pass (as a minimum) the peak discharge generated by the 100-year 24-hour storm event.
4) **Peak Flow Attenuation – Port Wentworth**
    i) Control the peak discharge generated by the 1-year thru the 100-year design storm events.

SEDIMENTATION AND EROSION CONTROL

The work for the site will encompass roughly 48.51 acres of disturbance. The project will include three phases of erosion and sediment control management (due to limits of disturbance being more than 5 acres total), beginning with an initial clearing phase (initial phase). During the initial phase of the sediment and erosion control, single rows of silt fence with rock concentration outlets at natural discharge points on the site will be used to keep sediment and erosion from gathering outside the property during the clearing and grubbing stage. A construction entrance/exit and concrete washout will also be provided during the initial phase of erosion control management. During the intermediate phase of erosion control management, the proposed building pad will be graded, skimmer sediment basin will be dug, and the proposed storm pipe network construction will take place. Management will include drop inlet protection at all proposed grate inlets, the construction of the proposed skimmer sediment basin utilizing a tethered faircloth skimmer that cuts straight through the embankment and is connected to a 12" outlet pipe that flows through a stone energy dissipator before being released to natural property. These measures are included to the previously mentioned erosion control measures described above for the initial phase. The last phase (stabilization or final phase) will include paving and stabilization of the site. Much of the erosion control is best managed through the construction and use of the proposed skimmer sediment basin. Temporary diversion ditches will be used to channel flow to the sediment basin. Accessory features such as inlet protection, silt fence, and concentration outlets will also be used to assist

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with bypass areas and smaller areas of concentrated flow. Upon stabilization, the skimmer basin will be converted into a permanent wet detention pond, and all silt fence, the construction entrance and concrete washout will be removed. It should be noted that the emergency spillway is larger during the intermediate erosion control phase when the pond area is being used as a skimmer sediment basin to keep the runoff from overtopping the basin. The reason for this is that there is no open top riser outlet control structure associated with the sediment basin as there is with the wet detention pond. The larger emergency spillway allows the basin to release enough of the stored runoff volume to keep it from overtopping the basin. The rip rap lined emergency spillway is 75 feet wide and 25 feet in length. This decreases to 30 feet wide and 25 feet long once the basin is converted into being used as a permanent wet detention pond. Calculations have been provided showing the stage storage analysis of both structures and the runoff elevation level for the 2 through 100 year 24 hour storm events.

STORMWATER QUALITY MANAGEMENT AND PROTECTION

To determine the necessary water quality volume, the impervious drainage contributing to the wet detention pond was determined (see Appendix D). Calculations were performed to determine the associated stage in the pond based on the water quality volume. Intelisolves' Hydraflow Hydrographs were used to determine the orifice size within a 24-hour period. Pond volume calculations were then performed for the 1 year thru the 100-year storm frequencies. The initial stage (not the control elevation/stage) for each pond was set to the stage determined from treatment volume/basin geometry calculations. The routing simulations were run with to determine if the discharge of the water quality volume exceeded 24 hours. If the discharge did exceed 24 hours, the size of the orifice needed to be increased so that a larger amount of the water quality volume would be discharged from the orifice and decrease the time to empty the WQv from the basin. The orifice was sufficient in size if the pond stage did not reach the control elevation/stage (normal water level) prior to the 24-hour period.

STORMWATER QUANTITY METHODOLOGY

The existing and proposed conditions were analyzed using the Intelisolves' Hydraflow Hydrographs to generate the runoff hydrographs for each of the drainage basins based on the SCS Hydrograph Method. The program is used to model rainfall and stormwater runoff and to perform hydraulic routing through the storm drainage system for each storm event. The hydrologic input data consists of information for each drainage basin, or sub watershed, within the project. Input variables include runoff curve number, rainfall distribution pattern, hydrograph peaking factor, area of each drainage basin, and time of concentration (see below sections for specifics on the values of these variables that were used in this model). The program generates runoff hydrographs for each sub watershed based on the user-specified variables.

The model hydraulic input consists of a system of nodes and links. Nodes represent locations where flows enter or exit the system, pipe or channel characteristics changes, or where stage/storage/time relationships are provided. Links represent traditional types of

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hydraulic conveyance such as pipes, channels, drop structures, weirs, etc. The sizes, inverts, lengths, and pipe information, all lagoons and detention area stage-storage information and the respective within the model for a given storm, and flow conditions are determined.

Hydrographs for each drainage area are merged within the program, and the hydrologic results are then combined with the hydraulic information to model the hydraulic interactions of the entire drainage system. The results include detention area discharge rates and stage/storage information during the design storm events.

In addition, the ultimate discharge rate from the system cannot exceed the pre-developed runoff rate. Knowing this factor, the drainage system is designed by trial and error. The proposed pump system has been designed to release storm water over a 24-hour period of time and to release stormwater at the pre-developed flow rate or less.

STORM DRAINAGE SYSTEM

The site will drain to three individual storm drain systems. The analysis was conducted to verify that these drainage systems would not surcharge or reach a hydraulic grade line (HGL) than 6 inches from the surface due to the storm water runoff for the 25-year, 24-hour rainfall intensity. All of the curb inlets were evaluated for inlet spread using the 25-year, 24-hour rainfall intensity. Both systems function within the design parameters set forth by the City of Savannah and GADOT for both pipe design and inlet spread capacity.

Each system has been fitted with a properly sized riprap apron at the outflow for energy dissipation. All of the proposed storm drain profiles show that to the hydraulic gradient line (HGL) to no closer than 0.5' below the weir/rim elevation. Please see the storm drain analysis section of this document to see the stormwater plan and profiles for the proposed storm network.

END NARRATIVE

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2. PRE-DEVELOPMENT ANALYSIS SUMMARY-

Pre-Development Drainage Area 1 (Only Single Drainage Area for this Project)

- Drainage Area, A_E: 35.18 Acres
- Design Basis: 25-year, 24-Hour Storm Events
- Time of Concentration, T_C: 50.0 min (Assumed)
- Runoff Coefficient: CN = 89 (100 Open with Poor Soils)
- Rainfall Intensity – 1, 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events
  - I_1 = 3.60 in
  - I_2 = 4.80 in
  - I_5 = 6.00 in
  - I_{10} = 6.72 in
  - I_{25} = 7.92 in
  - I_{50} = 8.88 in
  - I_{100} = 9.84 in
- Run-off , Q – 1, 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events
  - Q_1 = 33.54 cfs
  - Q_2 = 48.60 cfs
  - Q_5 = 63.68 cfs
  - Q_{10} = 72.71 cfs
  - Q_{25} = 87.69 cfs
  - Q_{50} = 99.62 cfs
  - Q_{100} = 111.51 cfs

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3. POST-DEVELOPMENT ANALYSIS SUMMARY-

Post Development Bypass Drainage Area 1 (Drainage to Pond)

- Drainage Area, A_E: 35.18 Acres
- Design Basis: 25-year, 24-Hour Storm Events
- Time of Concentration, T_C: 8 min (Assumed)
- Runoff Coefficient: CN = 96 (See hydraflow tabulation charts for analysis)
- Rainfall Intensity – 1, 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events
  I_1 = 3.60 in
  I_2 = 4.80 in
  I_5 = 6.00 in
  I_{10} = 6.72 in
  I_{25} = 7.92 in
  I_{50} = 8.88 in
  I_{100} = 9.84 in
- Run-off, Q – 1, 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events
  Q_1 = 51.04 cfs
  Q_2 = 71.70 cfs
  Q_5 = 92.25 cfs
  Q_{10} = 104.52 cfs
  Q_{25} = 124.90 cfs
  Q_{50} = 141.13 cfs
  Q_{100} = 157.32 cfs

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Combined Post Development Flows from Pond-1 Routed and Pond-2

- Rainfall Intensity – 1, 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events
  - $I_1 = 3.60$ in
  - $I_2 = 4.80$ in
  - $I_5 = 6.00$ in
  - $I_{10} = 6.72$ in
  - $I_{25} = 7.92$ in
  - $I_{50} = 8.88$ in
  - $I_{100} = 9.84$ in

- Run-off, Q – 1, 2, 5, 10, 25, 50 & 100-year, 24-Hour Storm Events
  - $Q_1 = 18.30$ cfs
  - $Q_2 = 29.33$ cfs
  - $Q_5 = 40.42$ cfs
  - $Q_{10} = 46.67$ cfs
  - $Q_{25} = 56.49$ cfs
  - $Q_{50} = 64.30$ cfs
  - $Q_{100} = 72.09$ cfs

4. WET DETENTION POND CALCULATIONS -

POND VOLUME CHART:

Pond 1

ELEVATION	*AREA (SF)*	*VOLUME (CF)*	*CUMULATIVE VOLUME (CF)*
14	101,703	0	0
15	107,412	104,534	138,686
16	113,777	110,271	248,957

POND RUNOFF AND ELEVATION SUMMARY:

DESIGN STORM	FLOW RATE	PEAK ELEV
1 YR	6.50 cfs	14.19
2 YR	8.924 cfs	14.35
5 YR	10.69 cfs	14.50
10 YR	11.55 cfs	14.58
25 YR	12.83 cfs	14.72
50 YR	13.78 cfs	14.83
100 YR	14.68 cfs	14.94

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Pond 2

ELEVATION	*AREA (SF)*	*VOLUME (CF)*	*CUMULATIVE VOLUME (CF)*
14	56,277	0	0
15	64,568	60,369	79,230
16	72,915	66,692	148,012

POND RUNOFF AND ELEVATION SUMMARY:

DESIGN STORM	FLOW RATE	PEAK ELEV
1 YR	18.30 cfs	14.47
2 YR	29.33 cfs	14.72
5 YR	40.42 cfs	14.94
10 YR	46.67 cfs	15.05
25 YR	56.49 cfs	15.22
50 YR	64.30 cfs	15.35
100 YR	72.09 cfs	15.48

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5. CONCLUSION-

PRE VS. POST FLOW RATE COMPARISON FOR PROJECT AREA STORM NETWORK:

* Post-development attenuated flow rates are less than pre-development flow rates.
* Post-development flow rates include outlet from proposed reservoir and post-development bypass drainage area 1.
* The Post 100-year storm event is less than the Pre 100-year storm event which accounts for channel protection, overbank protection, and extreme flood.

Appendix A

Calculation Methods & Reference Equations

The hydrologic analysis in this report was based on the methodologies and equations presented in Urban Hydrology for Small Watersheds (TR-55) and the Georgia Stormwater Management Manual. The specific approaches used to calculate each of the hydrologic parameters are described below.

Time of Concentration

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Sheet Flow

It was assumed that the most hydraulically distant points for each of the drainage basins sheet flows for the first 100 ft (from GA Stormwater Management Manual pg 2.1-25). The travel time for the sheet flow segments was then calculated using the following formula (GA Stormwater Management Manual equation 2.1.9):

$$T_t = \frac{0.42\ (n\,L)^{0.8}}{60\ (P_2)^{0.5}\ (S)^{0.4}}$$

where, T_t = travel time (hr)
n = Manning roughness coefficient for sheet flow
L = flow length (ft)
P_2 = 2-year, 24-hour rainfall (in)
S = land slope (ft/ft)

The "n" values were taken from GA Stormwater Management Manual Table 2.1.5-2 and the value of P_2 was set as 4.8 inches (from GA Stormwater Management Manual Table A-13) for Savannah, GA. The slopes (S) of the surfaces along the flow paths used for the hydraulic lengths were calculated from the topographic survey data.

Shallow Concentrated Flow

To estimate the travel time for the shallow concentrated flow segments, first, the average velocity was determined using the following equations (from GA Stormwater Management Manual Equation 2.1.10):

Unpaved surface:

$$V = 16.1345\ (S)^{0.5}$$

where, V = average velocity (ft/s)
S = land slope (ft/ft)

Paved surface:

$$V = 20.3282\ (S)^{0.5}$$

where, V = average velocity (ft/s)
S = land slope (ft/ft)

These two equations are based on the solution of Manning's equation (from GA Stormwater Management Manual Equation 2.1.12) with different assumptions for n (Manning's roughness coefficient) and r (hydraulic radius, ft). For unpaved areas, n is 0.05 and r is 0.4; for paved areas, n is 0.025 and r is 0.2.

Channel Flow

The velocity of the water in the ditch can be calculated using Manning's equation for Open Channel flow (from GA Stormwater Management Manual Equation 2.1.12):

$$V = \frac{1.49\,(R)^{2/3}\,(S)^{1/2}}{n}$$

where, V = average velocity (ft/s)
R = hydraulic radius (ft)
S = land slope (ft/ft)
n = Manning roughness coeff. for open channel flow

The total time of concentration (t_c) for each of the basins was determined by adding the travel times for the sheet, shallow concentrated, and open channel flow segments.

Rainfall Intensities

The rainfall intensity for storms with the 2-yr thru 50-yr return frequency in the Savannah metropolitan area can be calculated with the following equations (from GA Stormwater Management Manual Table A-13):

$$I_{25\text{-yr}} = 167.17 / (t_c + 28)^{0.8597}$$

$$I_{100\text{-yr}} = 220.00 / (t_c + 32)^{08671}$$

where, i = rainfall intensity (in/hr)
t_c = time of concentration (min)

Runoff Rates

The SCS method applicable to the Savannah metropolitan area is based on a storm event that has Type III time distribution. The empirical relationship: $I_a = 0.2\,S$ is used in the SCS method to estimate the initial abstraction, which represents the surface storage, interception, evaporation, and infiltration that occurs prior to runoff. Using this definition for I_a, the following equation is used to estimate the direct runoff from a 24-hr rainfall event (from GA Stormwater Management Manual, equation 2.1.6):

$$Q = \frac{(P - 0.2\,S)^2}{(P + 0.8\,S)}$$

where, Q = accumulated direct runoff (in)
P = accumulated rainfall (in)

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S = potential maximum soil retention (in)
and S = (1000/CN) - 10

The 24 hour rainfall accumulations (P values) for the 25-year, and 100-year storms in the Savannah area are 7.92 and 9.84 inches respectively. Using those values, along with the respective Curve Numbers for each basin, the runoff volumes were calculated for each drainage basin.

EXHIBITS

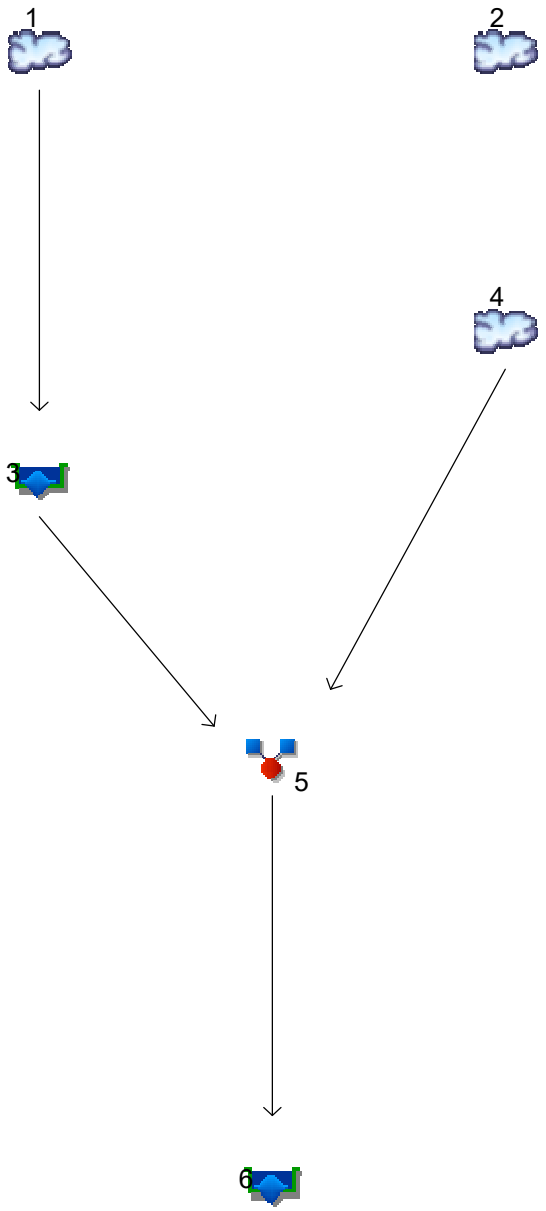
Exhibit-1 Pre-Developed

Exhibit-2 Post-Developed

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Watershed Model Schematic



Legend

Hyd.	Origin	Description
1	SCS Runoff	1-Post-Development Flow (Pond 1)
2	SCS Runoff	Pre-Development Flow
3	Reservoir	Pond 1
4	SCS Runoff	2-Post Development Flow (Pond 2)
5	Combine	<no description>
6	Reservoir	<no description>

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Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	------	22.14	30.01	-------	37.82	42.49	50.26	56.46	62.65	1-Post-Development Flow (Pond 1)
2	SCS Runoff	------	33.54	48.60	-------	63.68	72.71	87.69	99.62	111.51	Pre-Development Flow
3	Reservoir	1	6.505	8.924	-------	10.69	11.55	12.83	13.78	14.68	Pond 1
4	SCS Runoff	------	28.90	41.69	-------	54.43	62.03	74.64	84.67	94.67	2-Post Development Flow (Pond 2)
5	Combine	3, 4	32.31	48.28	-------	62.62	70.90	84.51	95.27	105.94	<no description>
6	Reservoir	5	18.30	29.33	-------	40.42	46.67	56.49	64.30	72.09	<no description>

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Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	22.14	2	728	98,174	------	------	------	1-Post-Development Flow (Pond 1)
2	SCS Runoff	33.54	2	760	315,104	------	------	------	Pre-Development Flow
3	Reservoir	6.505	2	754	64,019	1	14.19	53,692	Pond 1
4	SCS Runoff	28.90	2	728	120,381	------	------	------	2-Post Development Flow (Pond 2)
5	Combine	32.31	2	730	184,400	3, 4	------	------	<no description>
6	Reservoir	18.30	2	748	169,235	5	14.47	47,339	<no description>

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Hydrograph Report

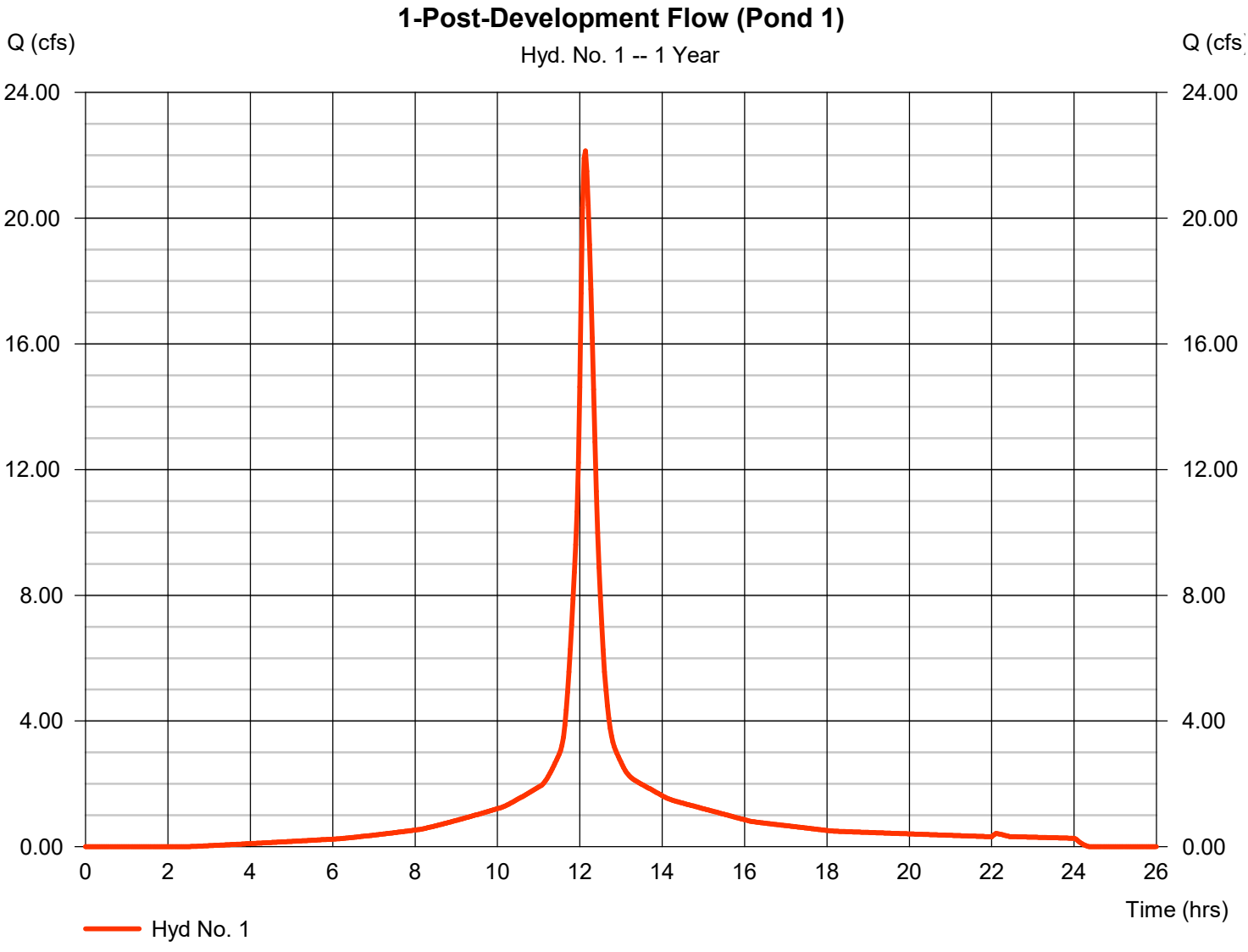
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 1

1-Post-Development Flow (Pond 1)

Hydrograph type	= SCS Runoff	Peak discharge	= 22.14 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 98,174 cuft
Drainage area	= 8.540 ac	Curve number	= 96*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 3.60 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(35.650 x 98) + (12.860 x 94) + (2.870 x 80)] / 8.540



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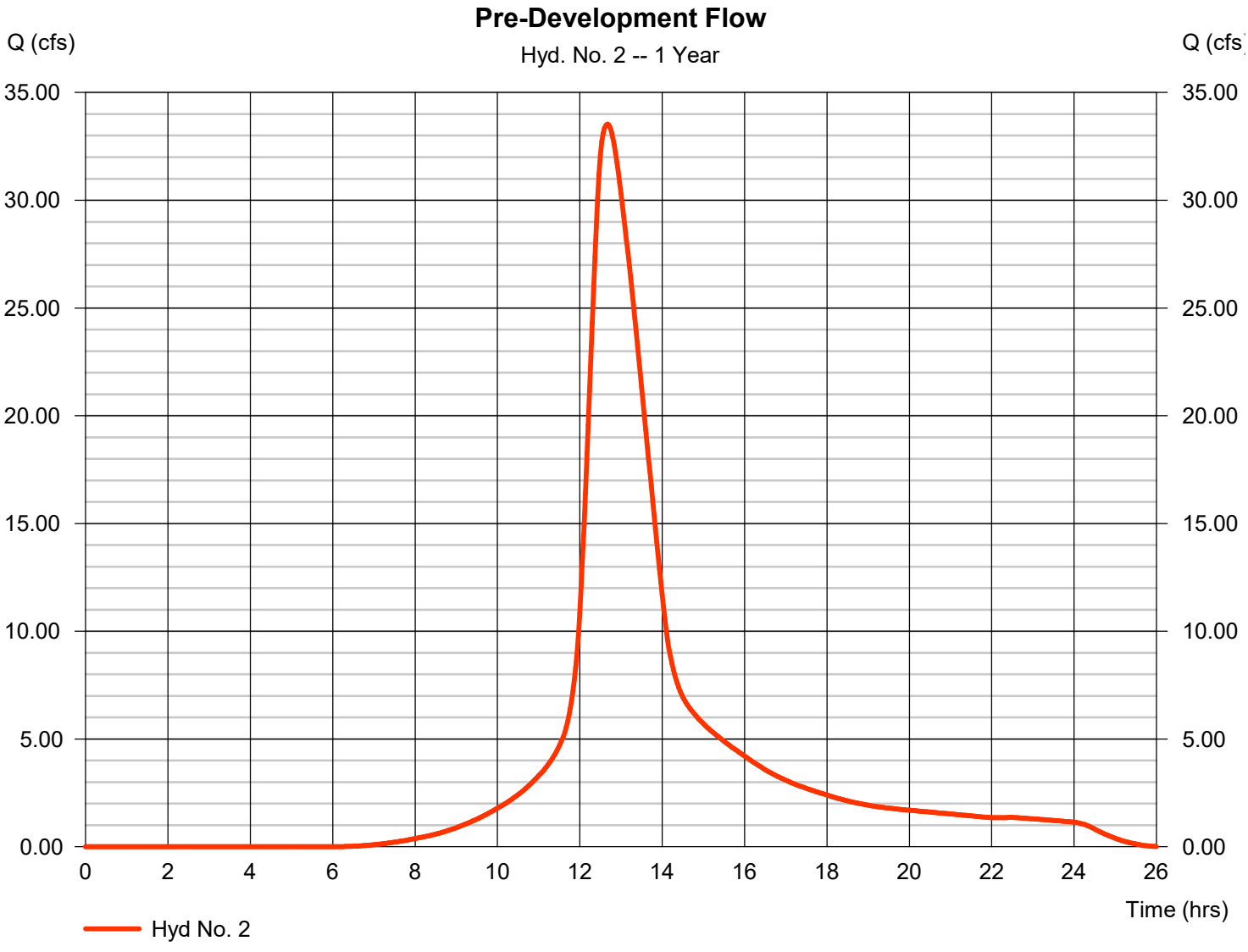
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 2

Pre-Development Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 33.54 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.67 hrs
Time interval	= 2 min	Hyd. volume	= 315,104 cuft
Drainage area	= 35.180 ac	Curve number	= 89
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 50.00 min
Total precip.	= 3.60 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



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Hydrograph Report

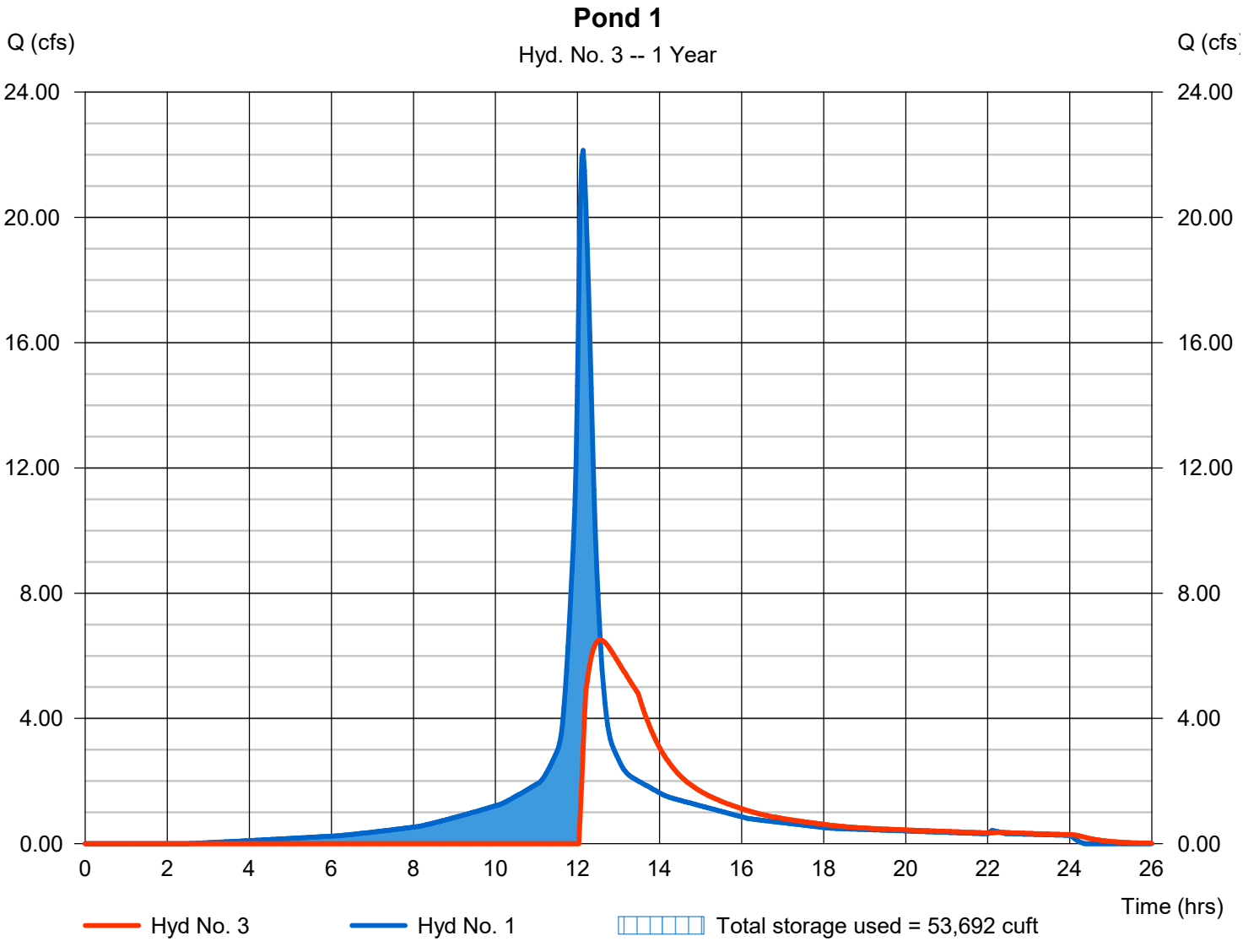
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 3

Pond 1

Hydrograph type	= Reservoir	Peak discharge	= 6.505 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.57 hrs
Time interval	= 2 min	Hyd. volume	= 64,019 cuft
Inflow hyd. No.	= 1 - 1-Post-Development Flow (Pond 1)	Max. Elevation	= 14.19 ft
Reservoir name	= Pond 1	Max. Storage	= 53,692 cuft

Storage Indication method used.



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Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Pond No. 1 - Pond 1

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 10.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	10.00	05	0	0
1.00	11.00	05	5	5
2.00	12.00	05	5	10
3.00	13.00	05	5	15
4.00	14.00	101,703	34,137	34,152
5.00	15.00	107,412	104,534	138,686
6.00	16.00	113,177	110,271	248,957

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 24.00	Inactive	Inactive	Inactive
Span (in)	= 24.00	0.00	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 12.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	Inactive	Inactive	Inactive	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= 1	Ciplti	Rect	---
Multi-Stage	= Yes	No	Yes	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 14.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	10.00	0.00	---	---	---	---	---	---	---	---	---	0.000
1.00	5	11.00	0.00	---	---	---	---	---	---	---	---	---	0.000
2.00	10	12.00	0.00	---	---	---	---	---	---	---	---	---	0.000
3.00	15	13.00	0.00	---	---	---	---	---	---	---	---	---	0.000
4.00	34,152	14.00	0.00	---	---	---	---	---	---	---	---	---	0.000
5.00	138,686	15.00	15.12 ic	---	---	---	---	---	---	---	---	---	15.12
6.00	248,957	16.00	21.39 ic	---	---	---	---	---	---	---	---	---	21.39

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

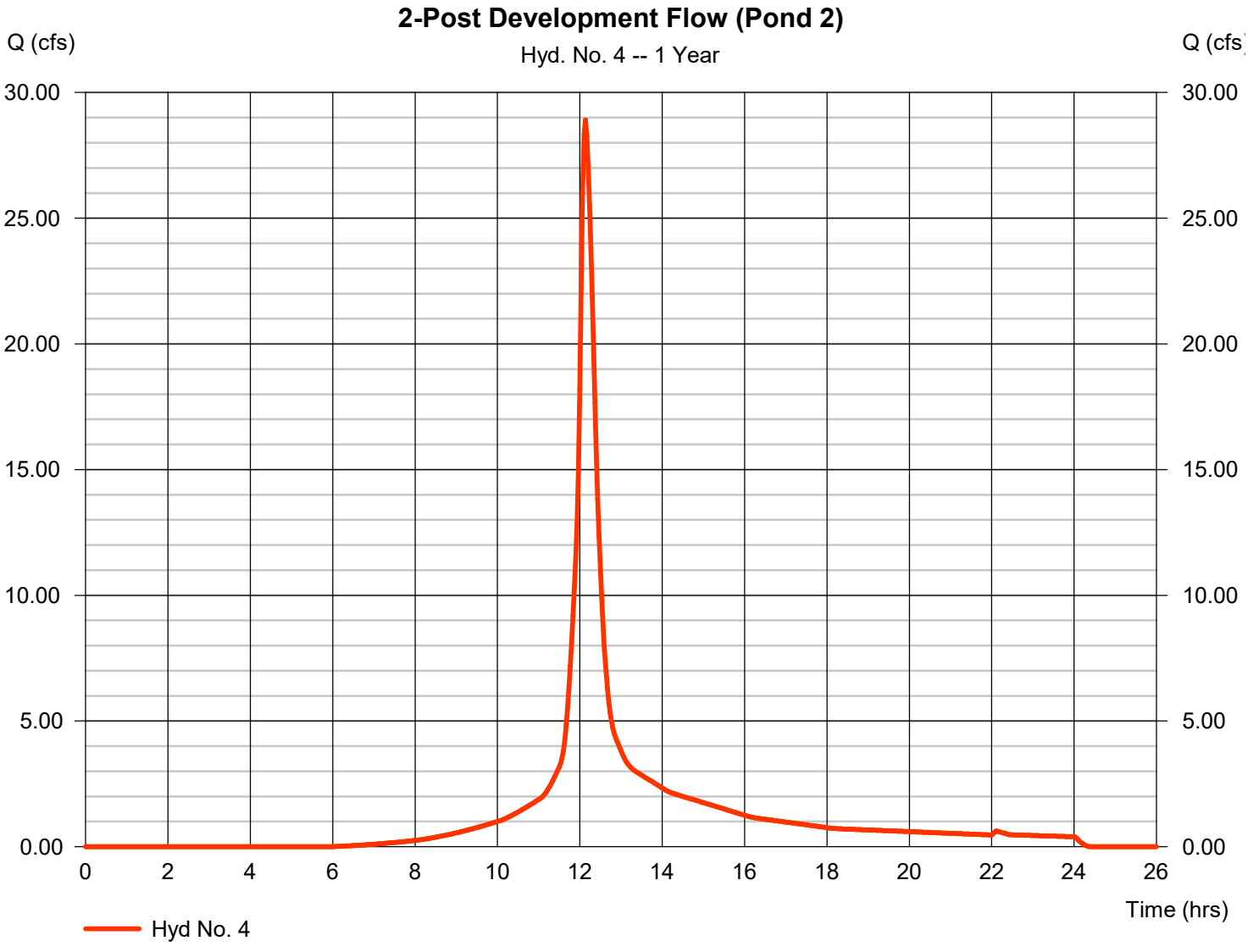
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 4

2-Post Development Flow (Pond 2)

Hydrograph type	= SCS Runoff	Peak discharge	= 28.90 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 120,381 cuft
Drainage area	= 13.440 ac	Curve number	= 89*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 3.60 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(9.500 x 86) + (3.940 x 96)] / 13.440



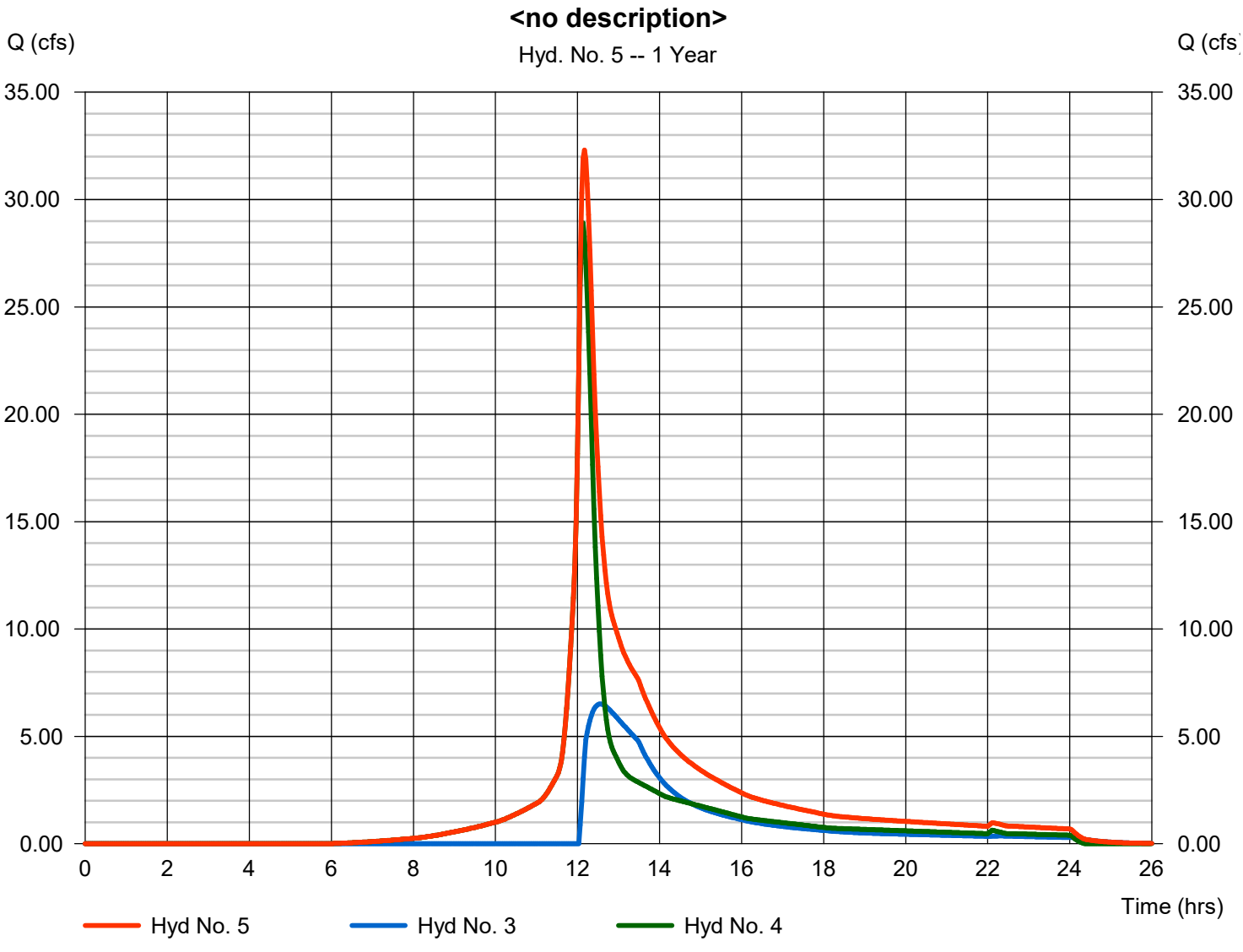
Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

Hyd. No. 5

<no description>

Hydrograph type	= Combine	Peak discharge	= 32.31 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.17 hrs
Time interval	= 2 min	Hyd. volume	= 184,400 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 13.440 ac



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

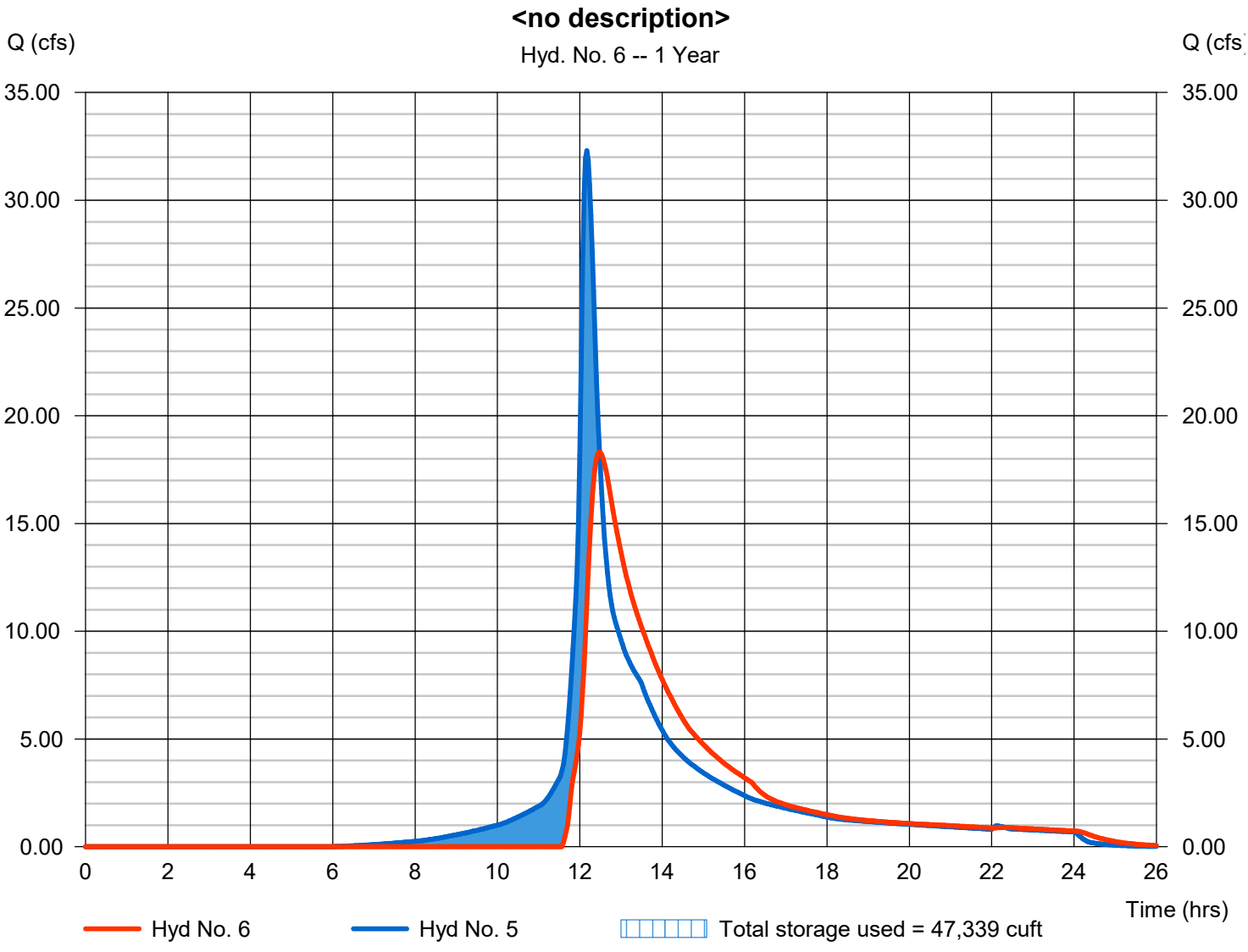
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 18.30 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.47 hrs
Time interval	= 2 min	Hyd. volume	= 169,235 cuft
Inflow hyd. No.	= 5 - <no description>	Max. Elevation	= 14.47 ft
Reservoir name	= Pond 2	Max. Storage	= 47,339 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Pond Report

Pond No. 2 - Pond 2

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 10.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	10.00	05	0	0
1.00	11.00	05	5	5
2.00	12.00	05	5	10
3.00	13.00	05	5	15
4.00	14.00	56,277	18,936	18,951
5.00	15.00	64,568	60,369	79,320
6.00	16.00	72,915	68,692	148,012

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	Inactive	Inactive	Inactive	Inactive
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 10.00	Inactive	Inactive	Inactive
Crest El. (ft)	= 13.80	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Rect	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	10.00	---	---	---	---	0.00	---	---	---	---	---	0.000
1.00	5	11.00	---	---	---	---	0.00	---	---	---	---	---	0.000
2.00	10	12.00	---	---	---	---	0.00	---	---	---	---	---	0.000
3.00	15	13.00	---	---	---	---	0.00	---	---	---	---	---	0.000
4.00	18,951	14.00	---	---	---	---	2.98	---	---	---	---	---	2.978
5.00	79,320	15.00	---	---	---	---	43.77	---	---	---	---	---	43.77
6.00	148,012	16.00	---	---	---	---	108.66	---	---	---	---	---	108.66

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	30.01	2	728	135,321	------	------	------	1-Post-Development Flow (Pond 1)
2	SCS Runoff	48.60	2	760	460,580	------	------	------	Pre-Development Flow
3	Reservoir	8.924	2	754	101,167	1	14.35	70,734	Pond 1
4	SCS Runoff	41.69	2	728	175,958	------	------	------	2-Post Development Flow (Pond 2)
5	Combine	48.28	2	728	277,124	3, 4	------	------	<no description>
6	Reservoir	29.33	2	746	261,959	5	14.72	62,321	<no description>

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

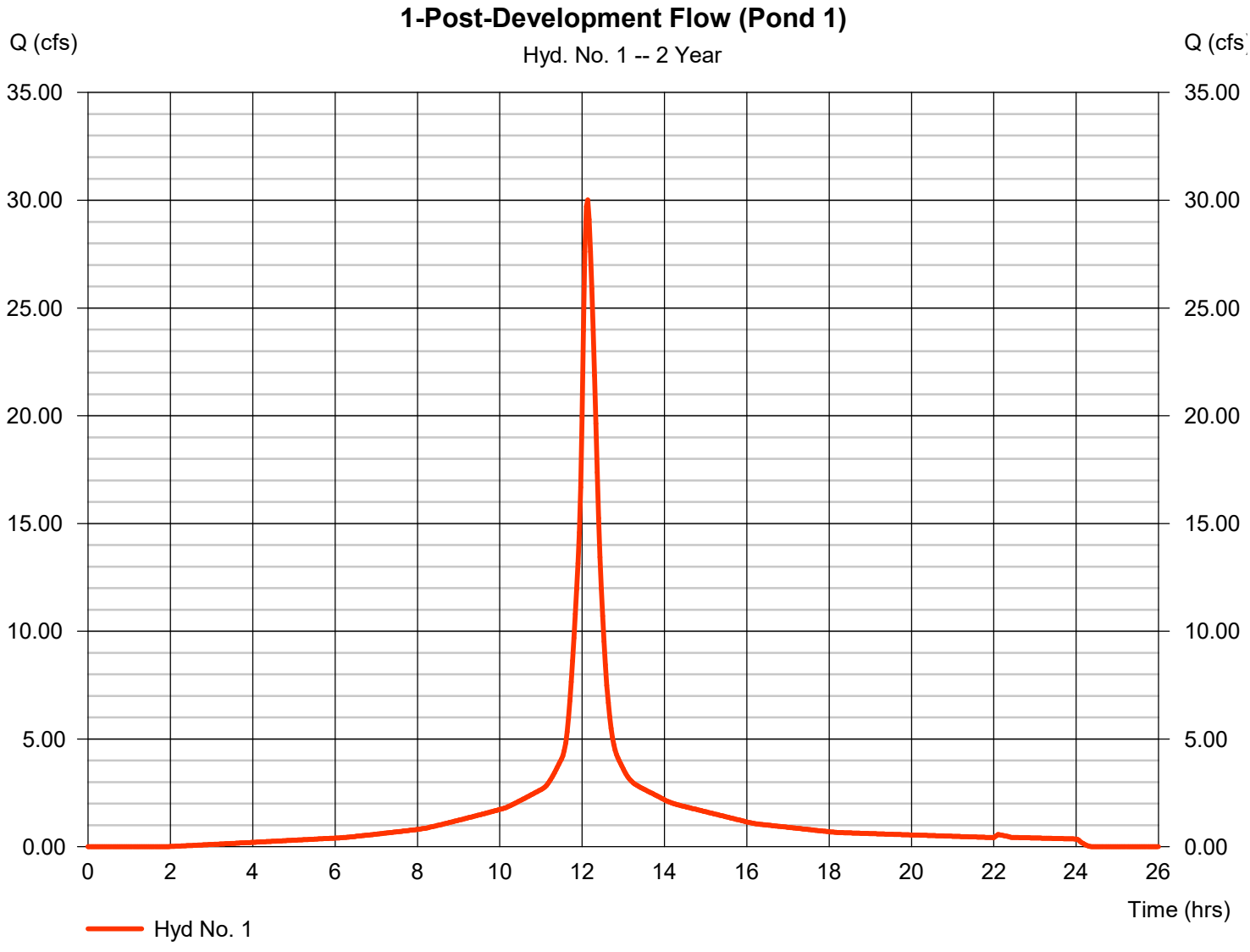
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 1

1-Post-Development Flow (Pond 1)

Hydrograph type	= SCS Runoff	Peak discharge	= 30.01 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 135,321 cuft
Drainage area	= 8.540 ac	Curve number	= 96*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 4.80 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(35.650 x 98) + (12.860 x 94) + (2.870 x 80)] / 8.540



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

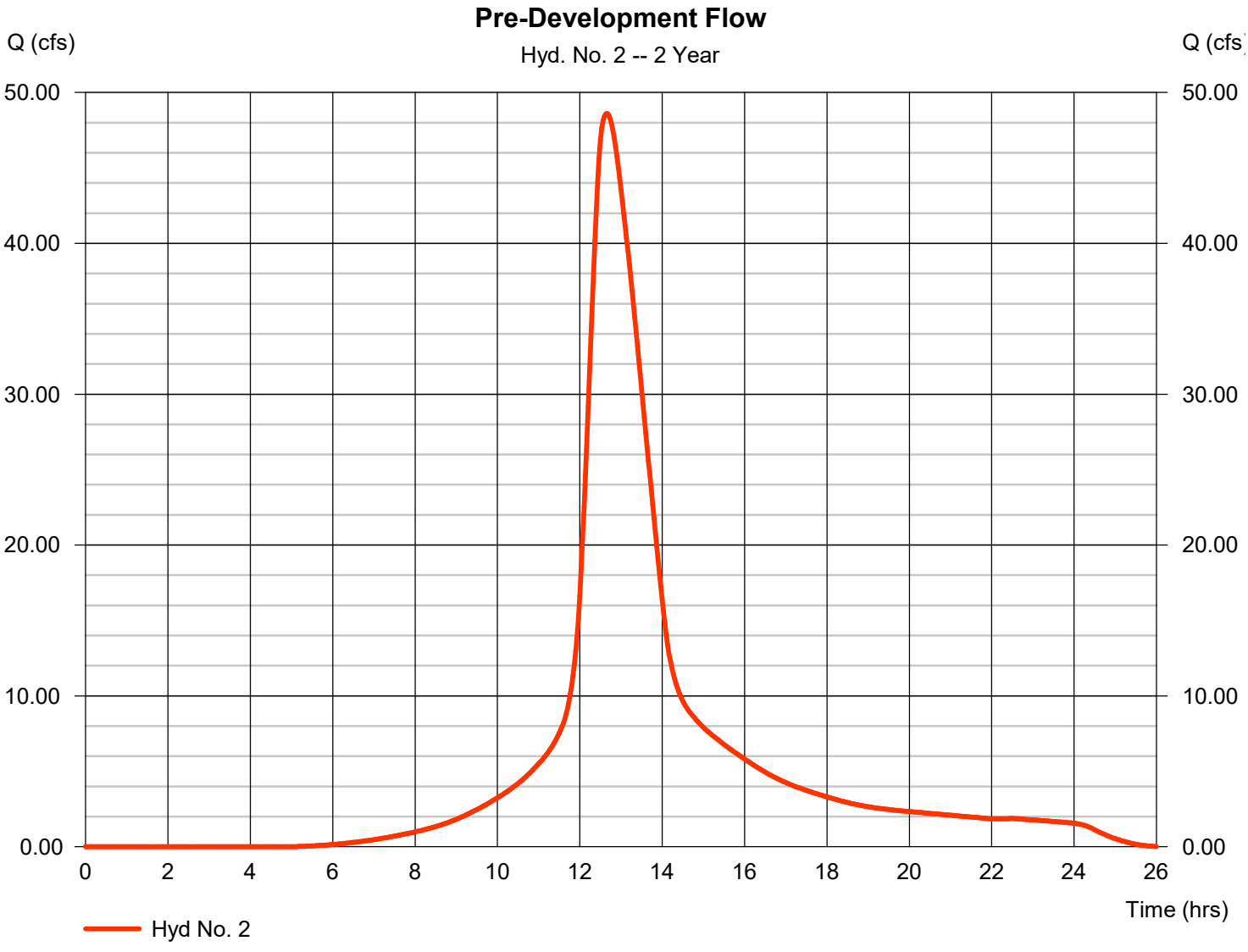
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 2

Pre-Development Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 48.60 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.67 hrs
Time interval	= 2 min	Hyd. volume	= 460,580 cuft
Drainage area	= 35.180 ac	Curve number	= 89
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 50.00 min
Total precip.	= 4.80 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

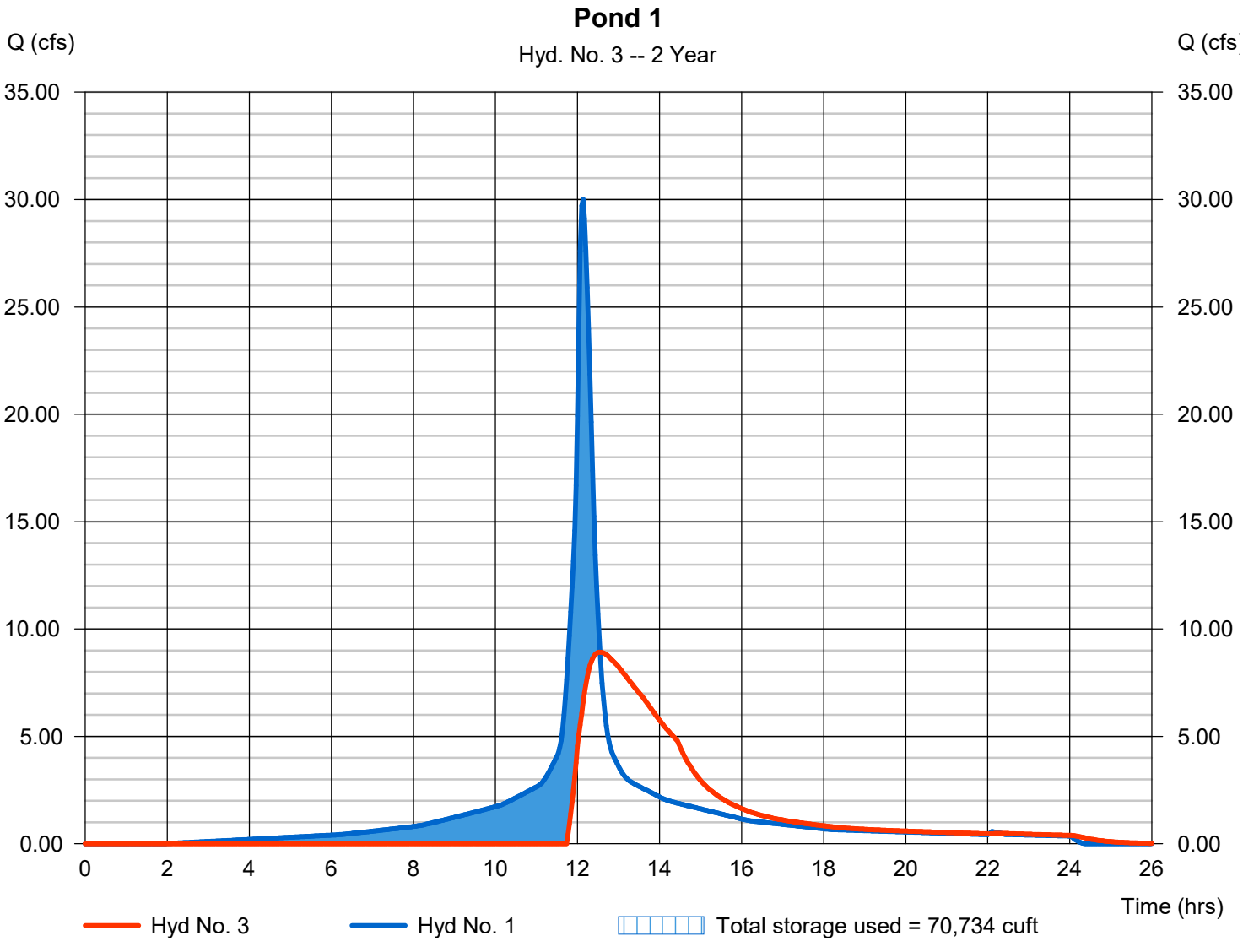
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 3

Pond 1

Hydrograph type	= Reservoir	Peak discharge	= 8.924 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.57 hrs
Time interval	= 2 min	Hyd. volume	= 101,167 cuft
Inflow hyd. No.	= 1 - 1-Post-Development Flow (Max.E)	Max. Elevation	= 14.35 ft
Reservoir name	= Pond 1	Max. Storage	= 70,734 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

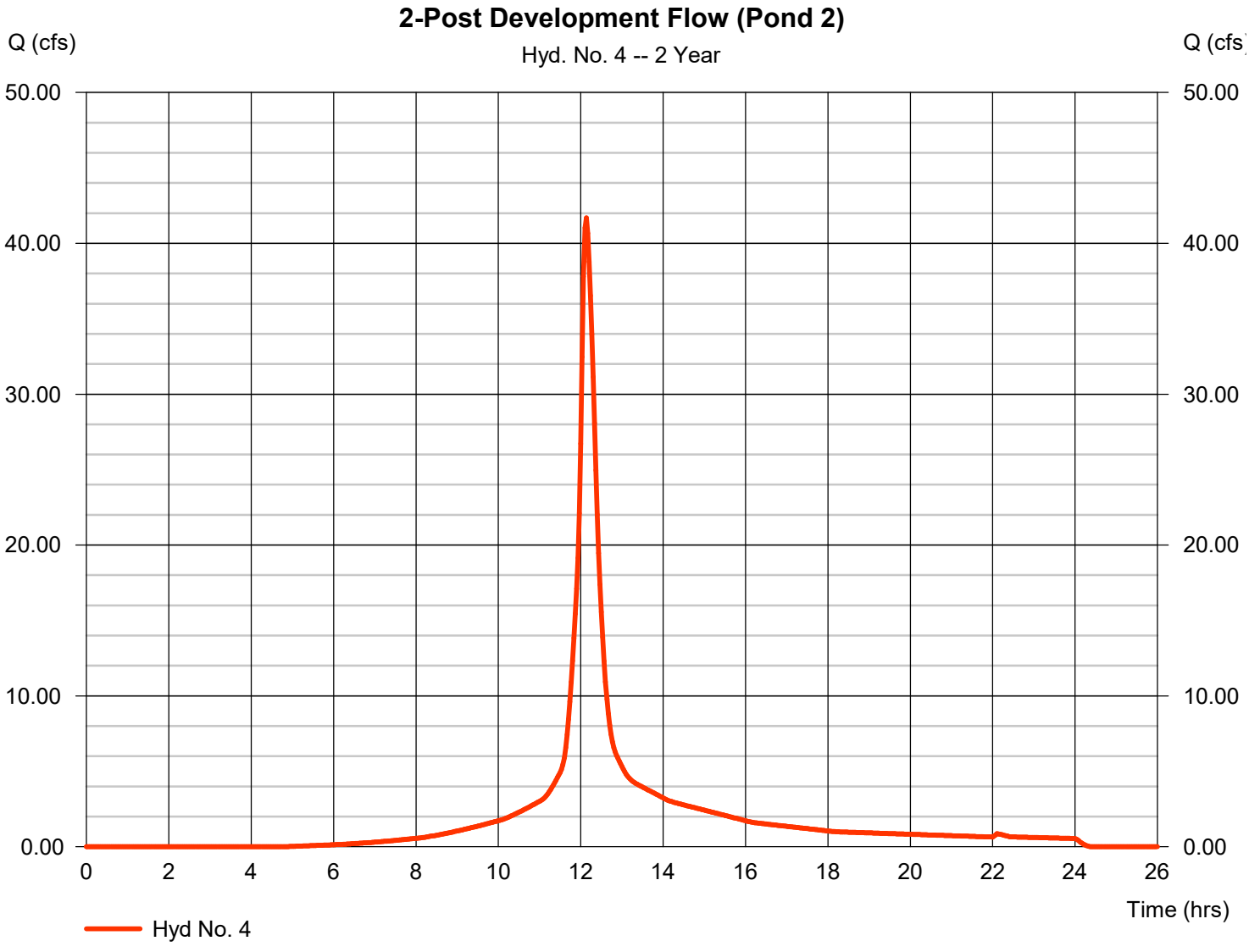
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 4

2-Post Development Flow (Pond 2)

Hydrograph type	= SCS Runoff	Peak discharge	= 41.69 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 175,958 cuft
Drainage area	= 13.440 ac	Curve number	= 89*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 4.80 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(9.500 x 86) + (3.940 x 96)] / 13.440



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

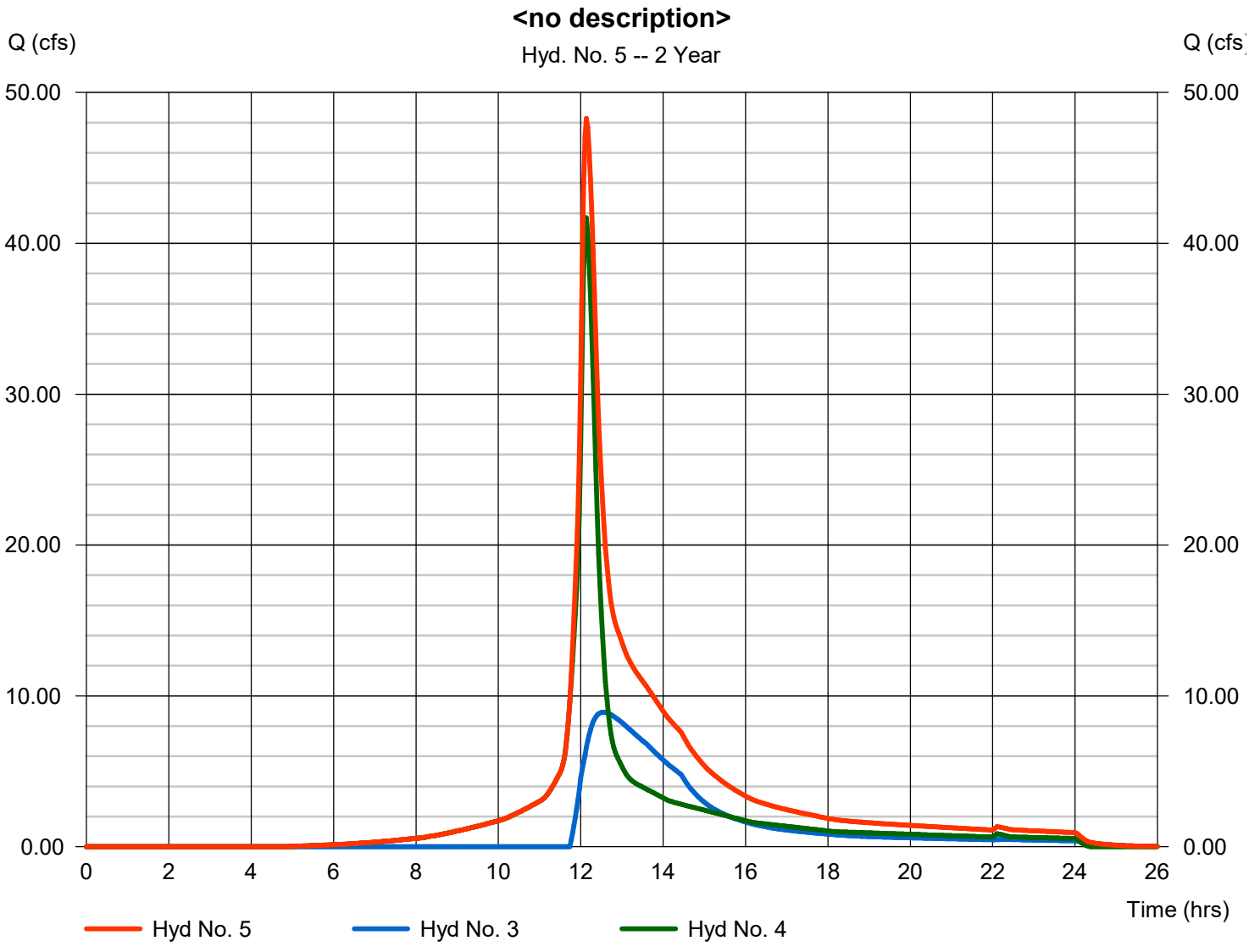
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 5

<no description>

Hydrograph type	= Combine	Peak discharge	= 48.28 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 277,124 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 13.440 ac



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

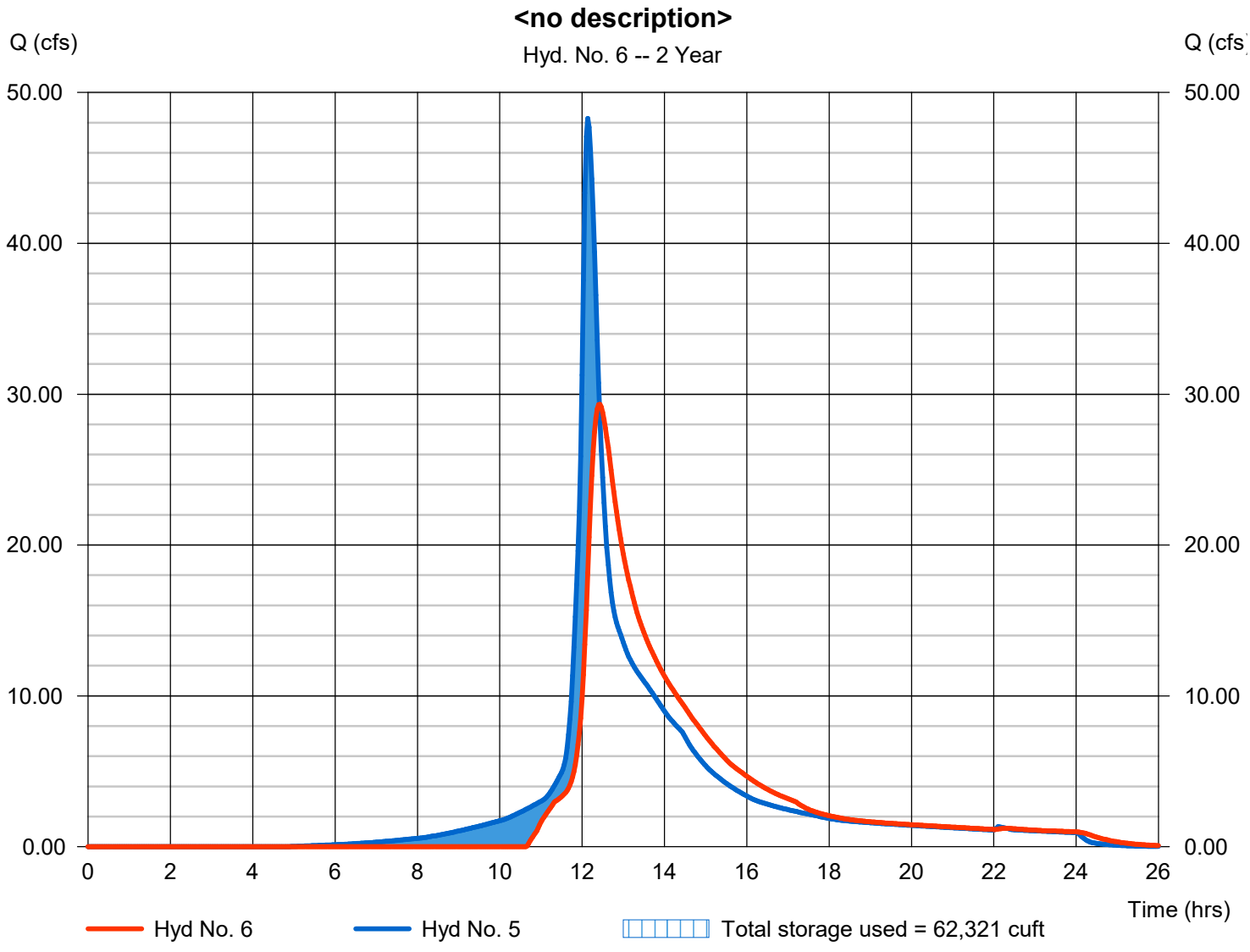
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 29.33 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.43 hrs
Time interval	= 2 min	Hyd. volume	= 261,959 cuft
Inflow hyd. No.	= 5 - <no description>	Max. Elevation	= 14.72 ft
Reservoir name	= Pond 2	Max. Storage	= 62,321 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	37.82	2	728	172,590	------	------	------	1-Post-Development Flow (Pond 1)
2	SCS Runoff	63.68	2	758	609,104	------	------	------	Pre-Development Flow
3	Reservoir	10.69	2	754	138,436	1	14.50	86,407	Pond 1
4	SCS Runoff	54.43	2	728	232,699	------	------	------	2-Post Development Flow (Pond 2)
5	Combine	62.62	2	728	371,135	3, 4	------	------	<no description>
6	Reservoir	40.42	2	744	355,969	5	14.94	75,544	<no description>

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

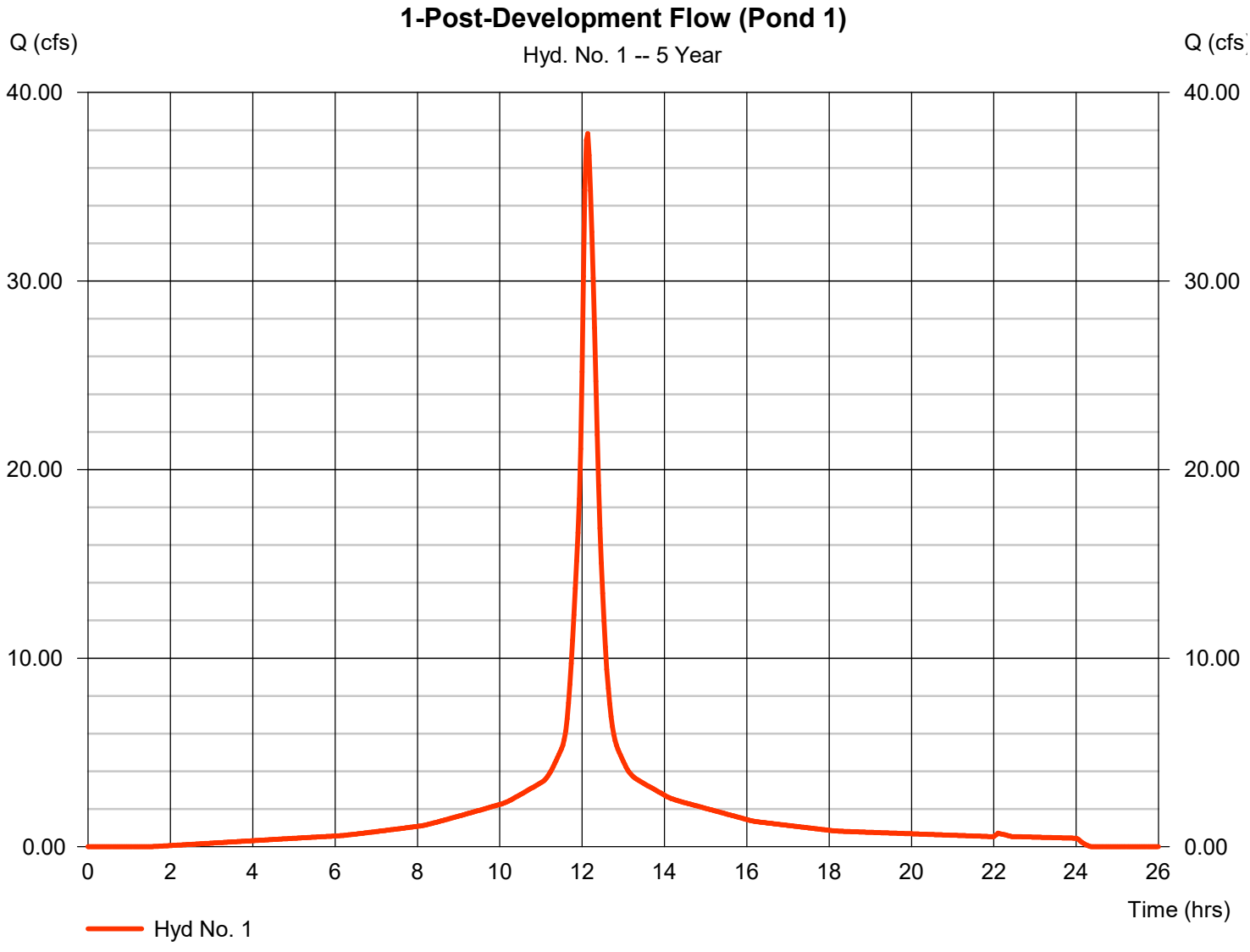
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 1

1-Post-Development Flow (Pond 1)

Hydrograph type	= SCS Runoff	Peak discharge	= 37.82 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 172,590 cuft
Drainage area	= 8.540 ac	Curve number	= 96*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 6.00 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(35.650 x 98) + (12.860 x 94) + (2.870 x 80)] / 8.540



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

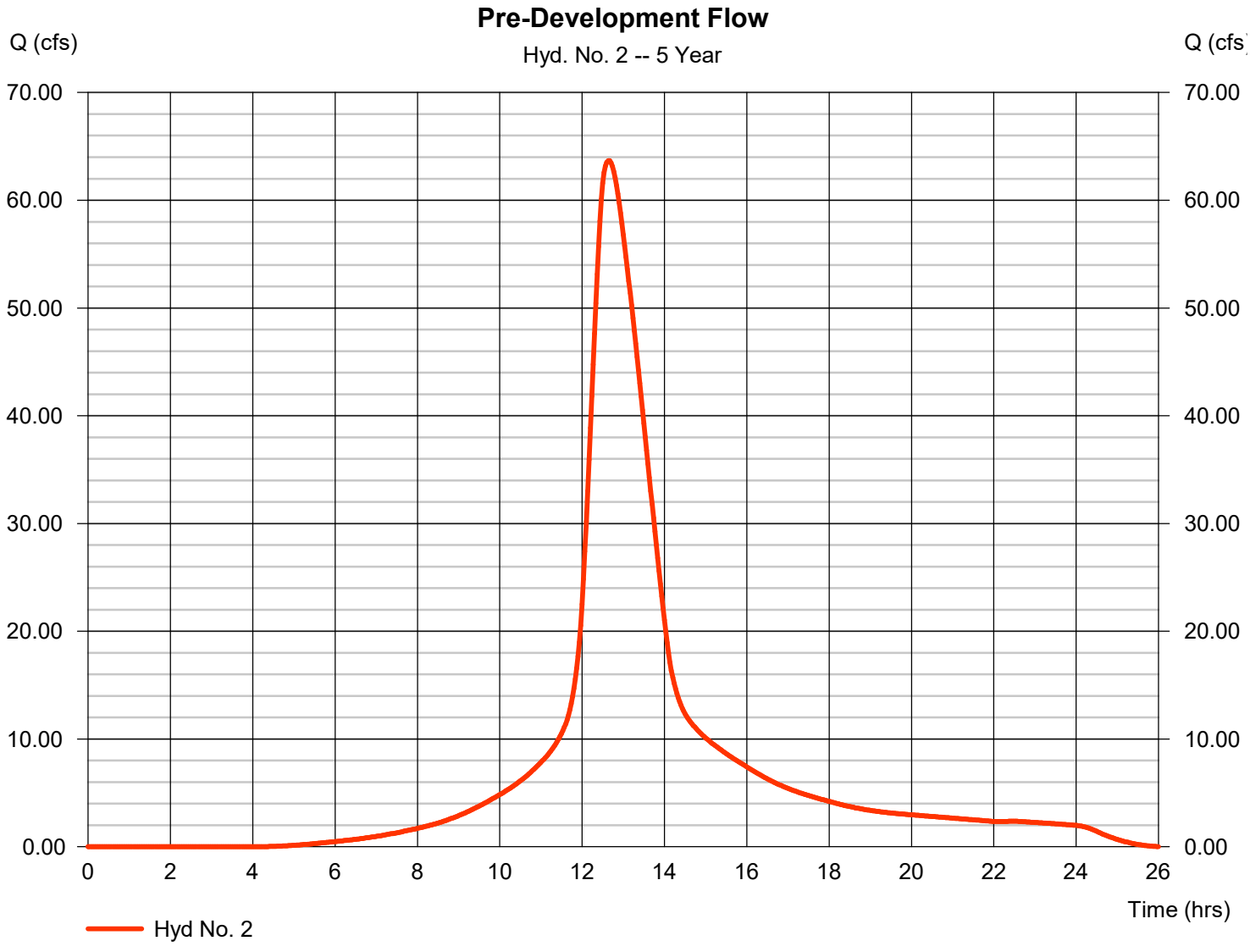
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 2

Pre-Development Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 63.68 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.63 hrs
Time interval	= 2 min	Hyd. volume	= 609,104 cuft
Drainage area	= 35.180 ac	Curve number	= 89
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 50.00 min
Total precip.	= 6.00 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

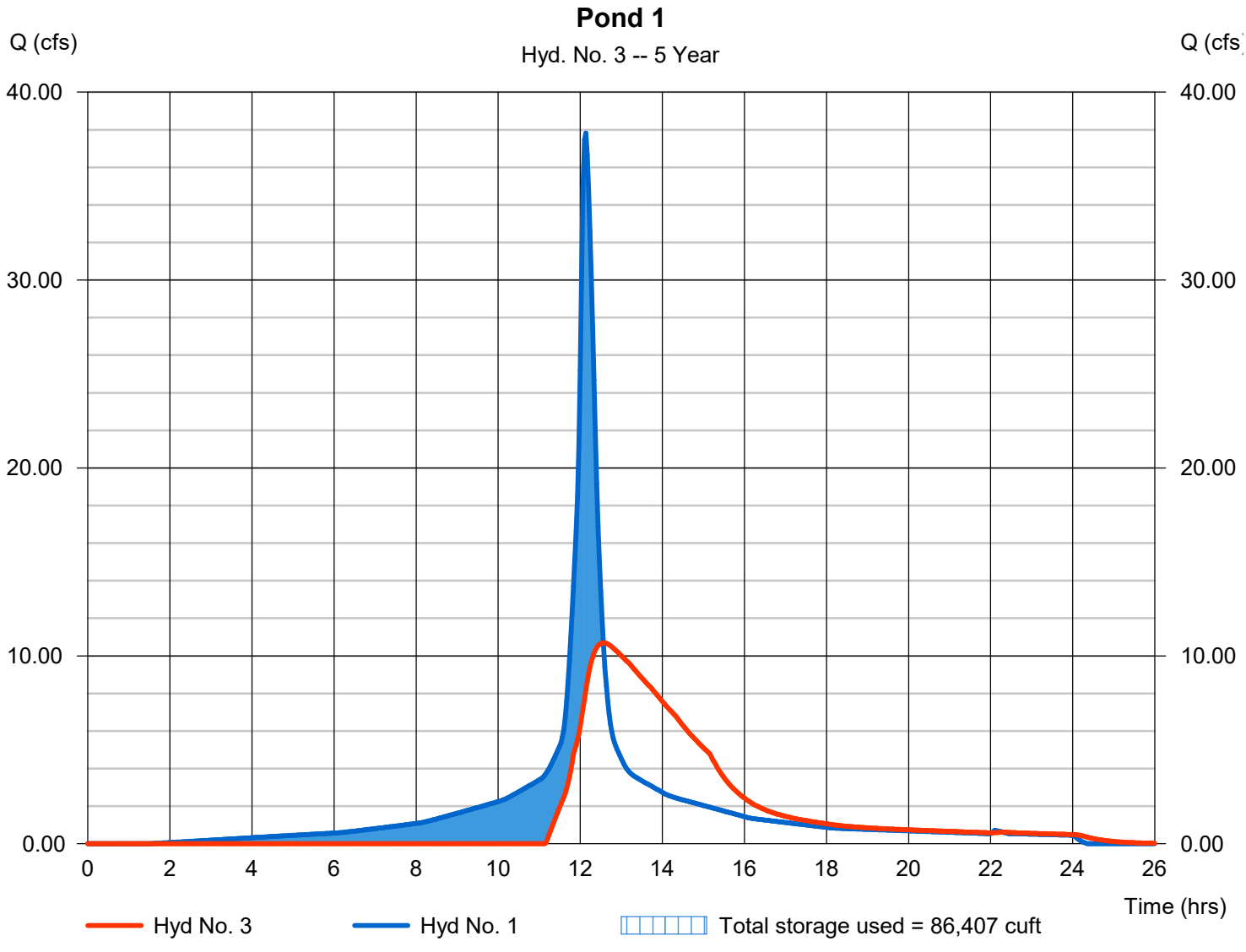
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 3

Pond 1

Hydrograph type	=	Reservoir	Peak discharge	=	10.69 cfs
Storm frequency	=	5 yrs	Time to peak	=	12.57 hrs
Time interval	=	2 min	Hyd. volume	=	138,436 cuft
Inflow hyd. No.	=	1 - 1-Post-Development Flow (Pond 1)	Max. Elevation	=	14.50 ft
Reservoir name	=	Pond 1	Max. Storage	=	86,407 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

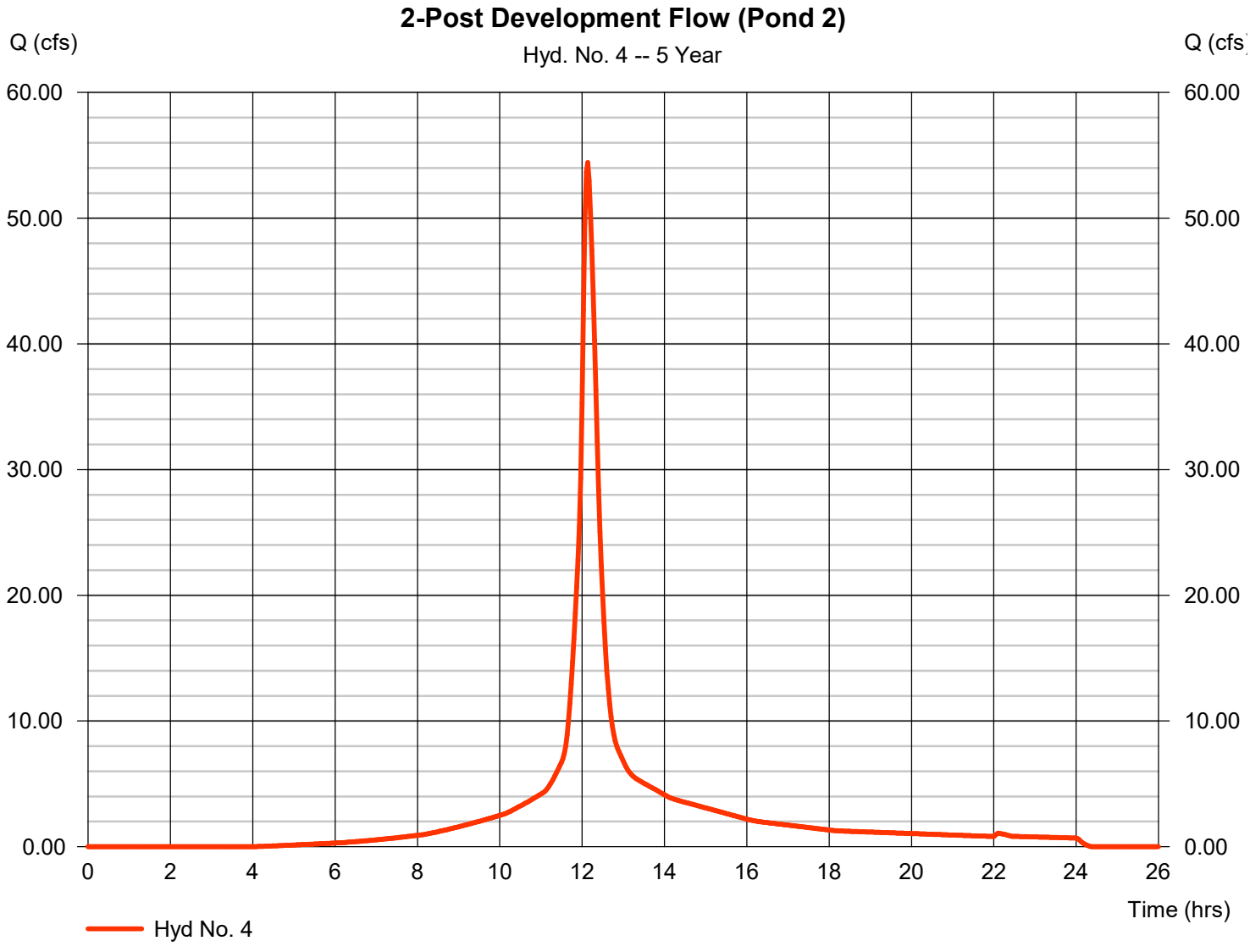
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 4

2-Post Development Flow (Pond 2)

Hydrograph type	= SCS Runoff	Peak discharge	= 54.43 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 232,699 cuft
Drainage area	= 13.440 ac	Curve number	= 89*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 6.00 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(9.500 x 86) + (3.940 x 96)] / 13.440



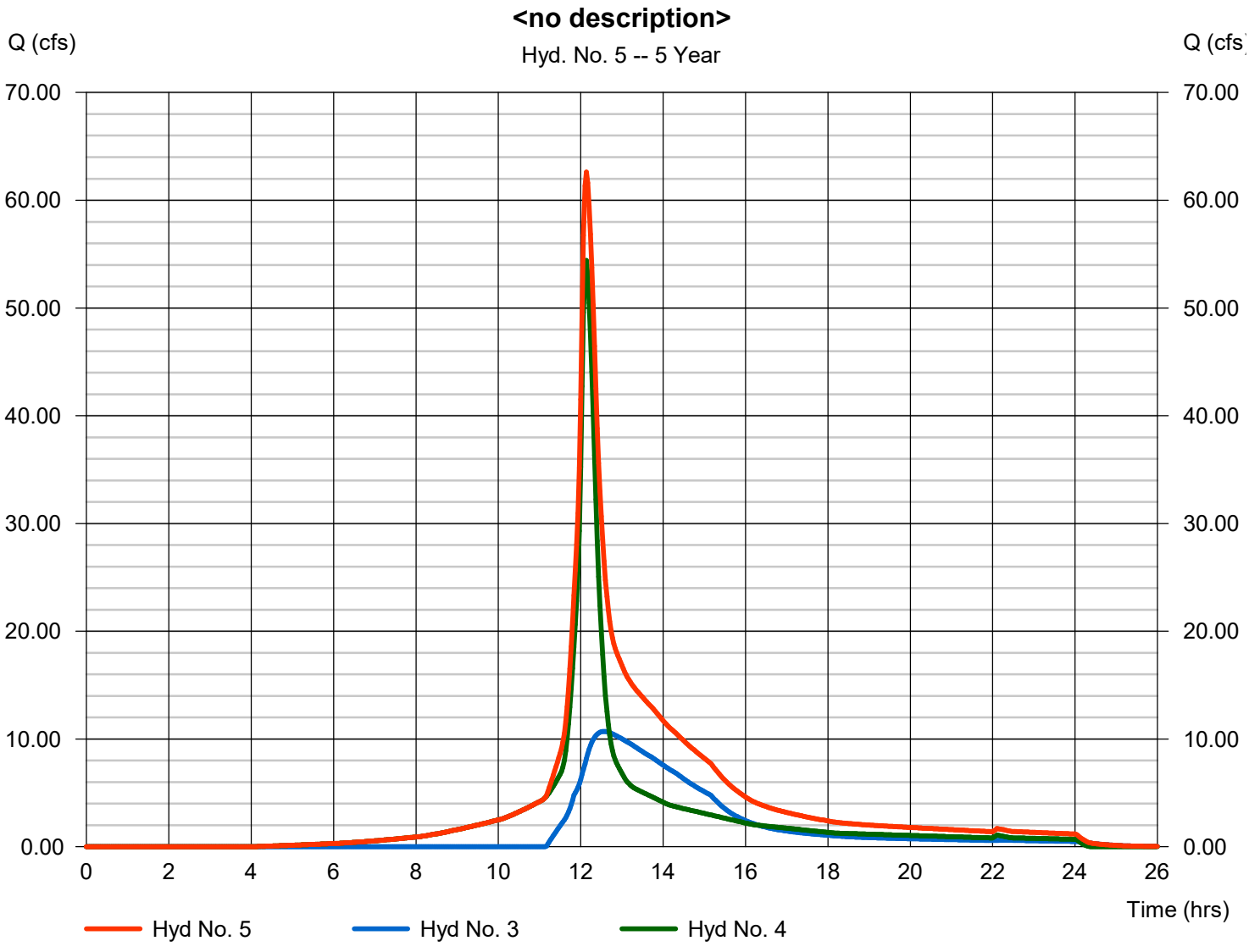
Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

Hyd. No. 5

<no description>

Hydrograph type	= Combine	Peak discharge	= 62.62 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 371,135 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 13.440 ac



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

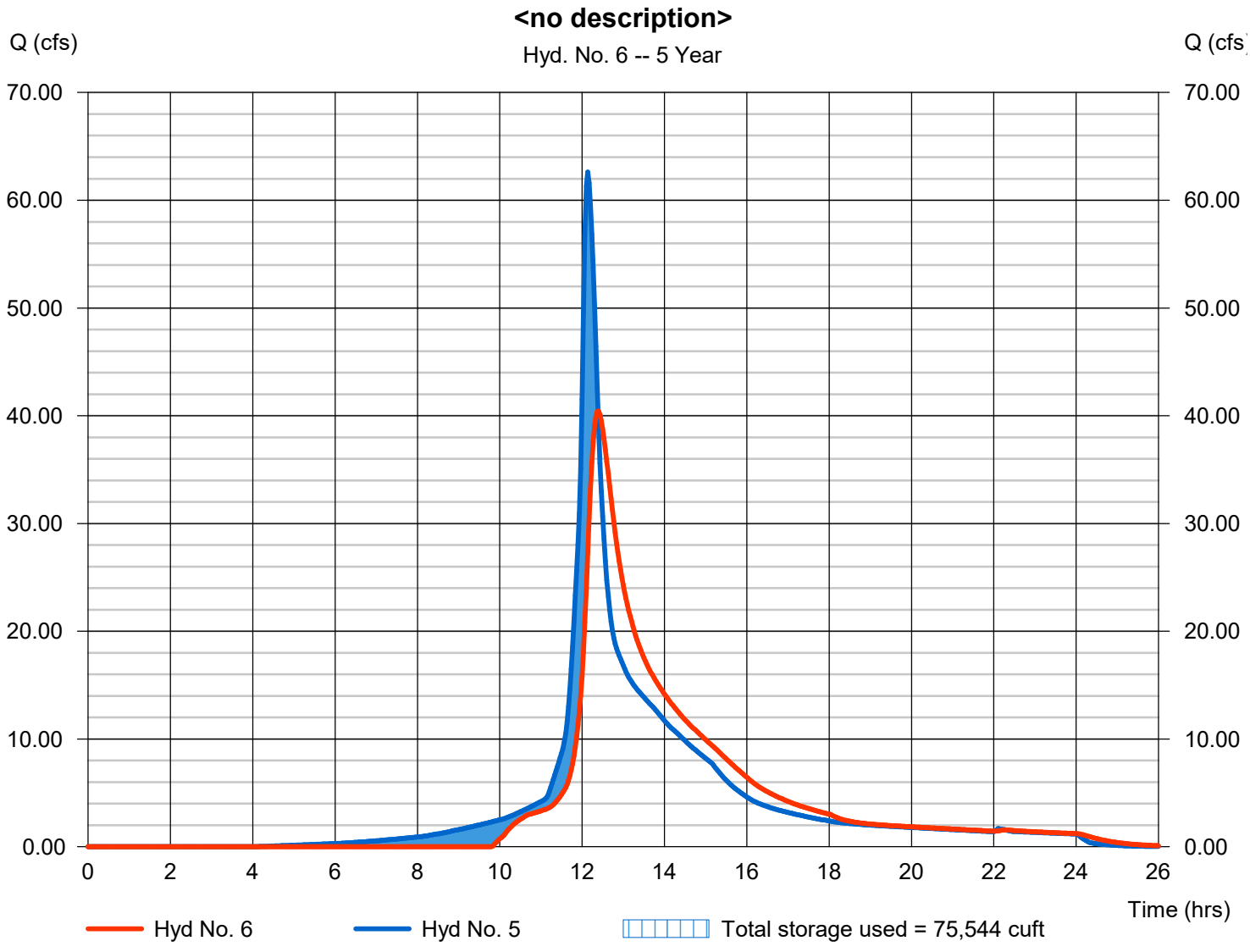
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 40.42 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.40 hrs
Time interval	= 2 min	Hyd. volume	= 355,969 cuft
Inflow hyd. No.	= 5 - <no description>	Max. Elevation	= 14.94 ft
Reservoir name	= Pond 2	Max. Storage	= 75,544 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	42.49	2	728	194,984	------	------	------	1-Post-Development Flow (Pond 1)
2	SCS Runoff	72.71	2	758	699,090	------	------	------	Pre-Development Flow
3	Reservoir	11.55	2	754	160,830	1	14.58	95,147	Pond 1
4	SCS Runoff	62.03	2	728	267,077	------	------	------	2-Post Development Flow (Pond 2)
5	Combine	70.90	2	728	427,907	3, 4	------	------	<no description>
6	Reservoir	46.67	2	742	412,741	5	15.05	82,878	<no description>

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

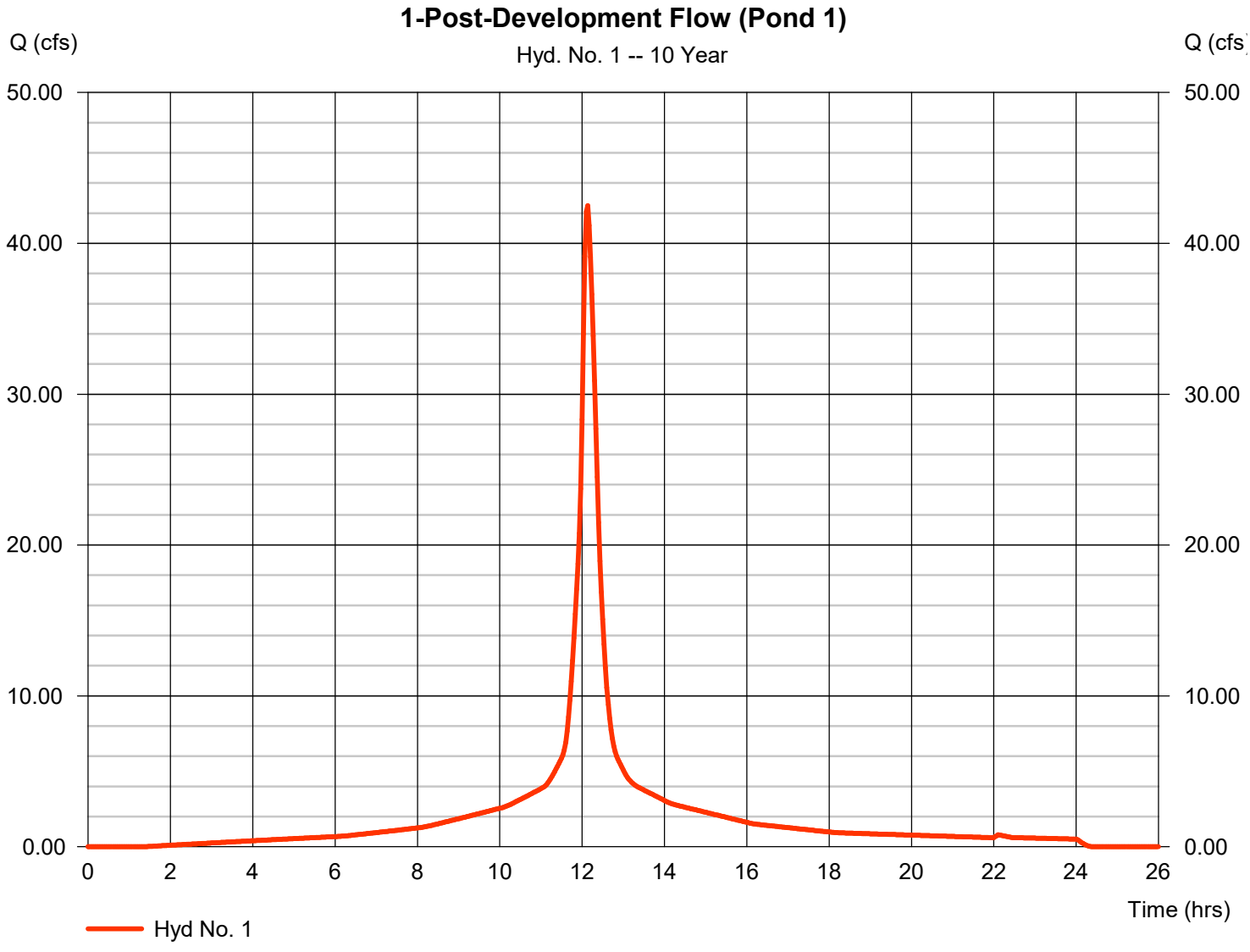
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 1

1-Post-Development Flow (Pond 1)

Hydrograph type	= SCS Runoff	Peak discharge	= 42.49 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 194,984 cuft
Drainage area	= 8.540 ac	Curve number	= 96*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 6.72 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(35.650 x 98) + (12.860 x 94) + (2.870 x 80)] / 8.540



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

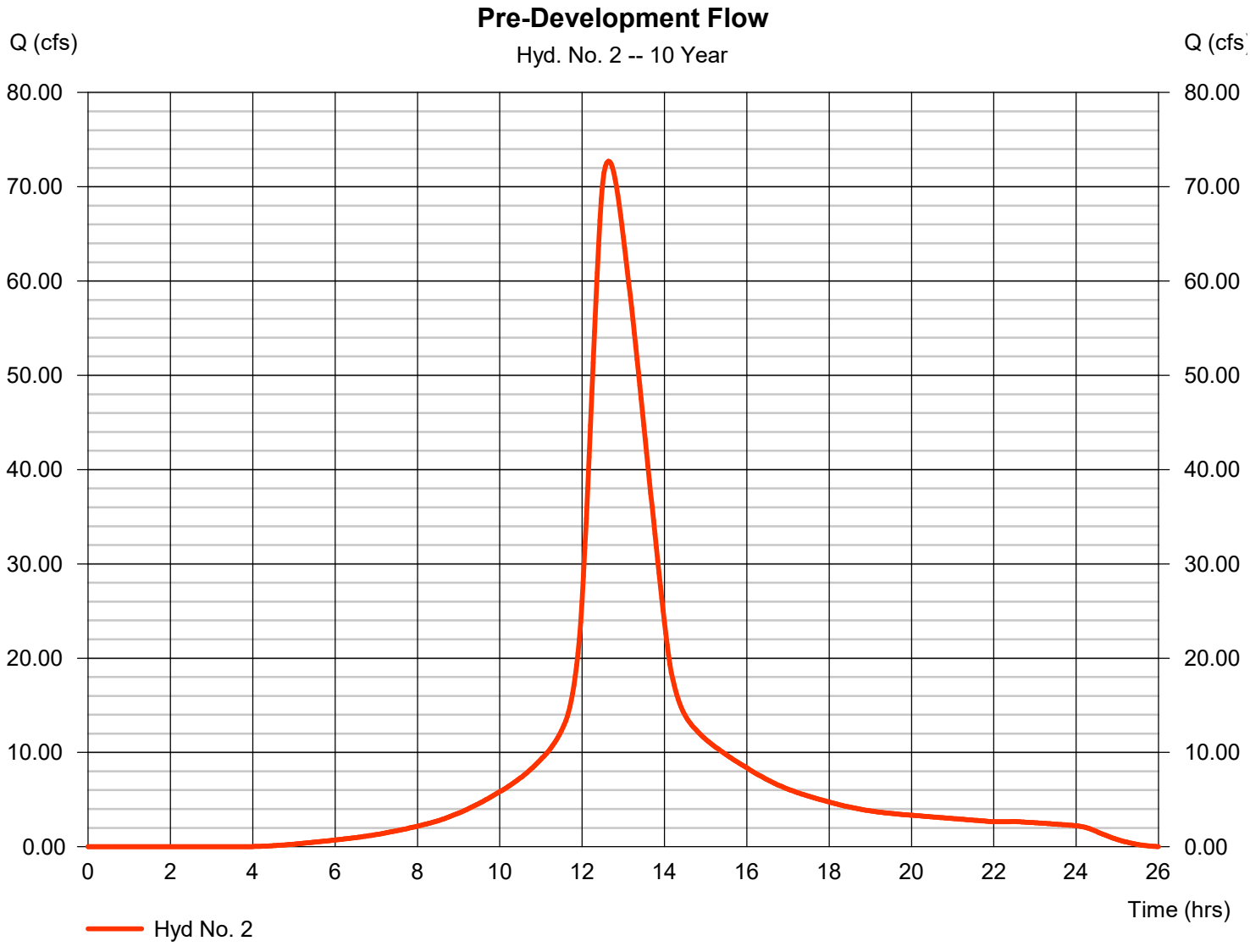
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 2

Pre-Development Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 72.71 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.63 hrs
Time interval	= 2 min	Hyd. volume	= 699,090 cuft
Drainage area	= 35.180 ac	Curve number	= 89
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 50.00 min
Total precip.	= 6.72 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

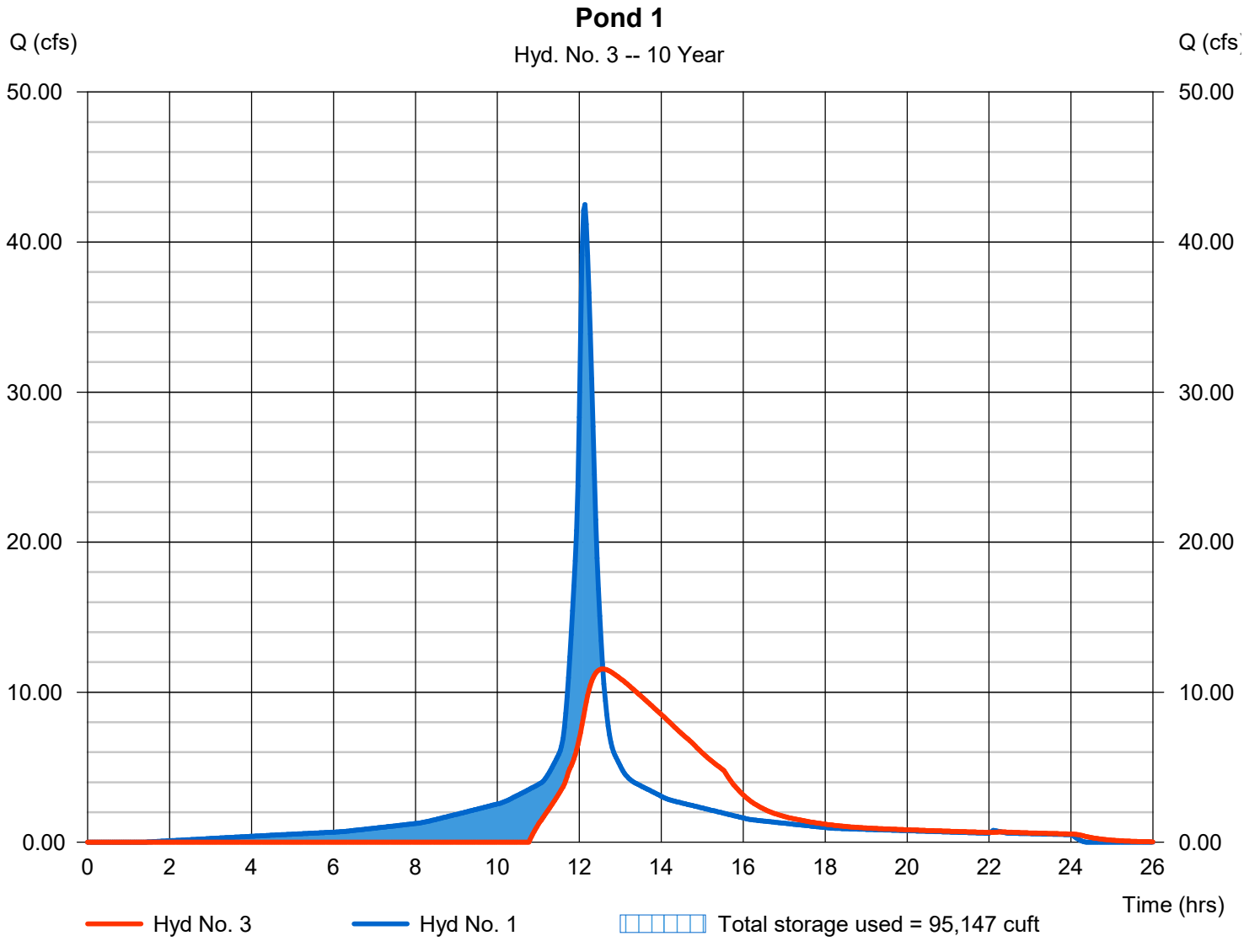
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 3

Pond 1

Hydrograph type	=	Reservoir	Peak discharge	=	11.55 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.57 hrs
Time interval	=	2 min	Hyd. volume	=	160,830 cuft
Inflow hyd. No.	=	1 - 1-Post-Development Flow (Pond 1)	Max. Elevation	=	14.58 ft
Reservoir name	=	Pond 1	Max. Storage	=	95,147 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

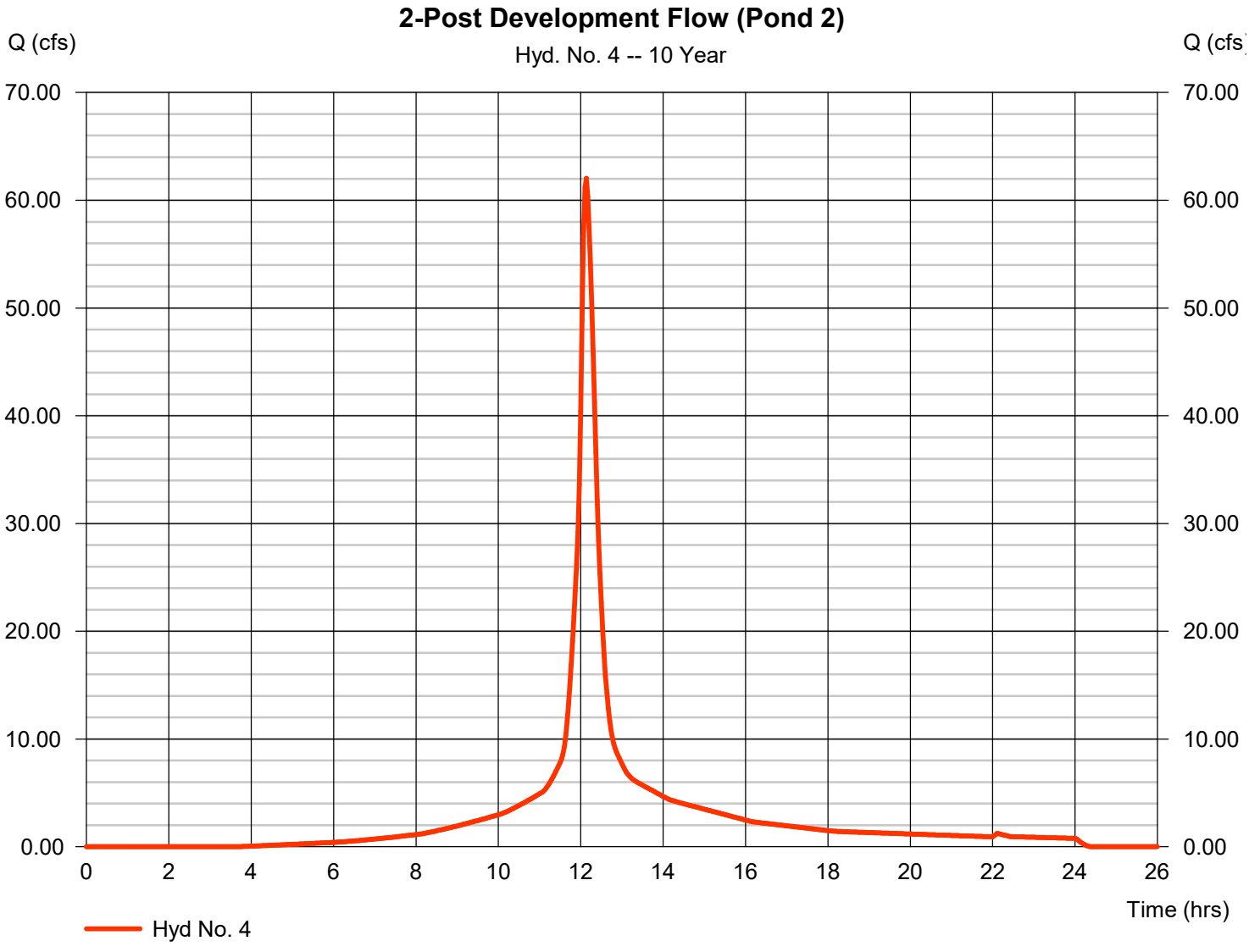
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 4

2-Post Development Flow (Pond 2)

Hydrograph type	=	SCS Runoff	Peak discharge	=	62.03 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.13 hrs
Time interval	=	2 min	Hyd. volume	=	267,077 cuft
Drainage area	=	13.440 ac	Curve number	=	89*
Basin Slope	=	0.5 %	Hydraulic length	=	990 ft
Tc method	=	User	Time of conc. (Tc)	=	8.00 min
Total precip.	=	6.72 in	Distribution	=	Type III
Storm duration	=	24 hrs	Shape factor	=	300

* Composite (Area/CN) = [(9.500 x 86) + (3.940 x 96)] / 13.440



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

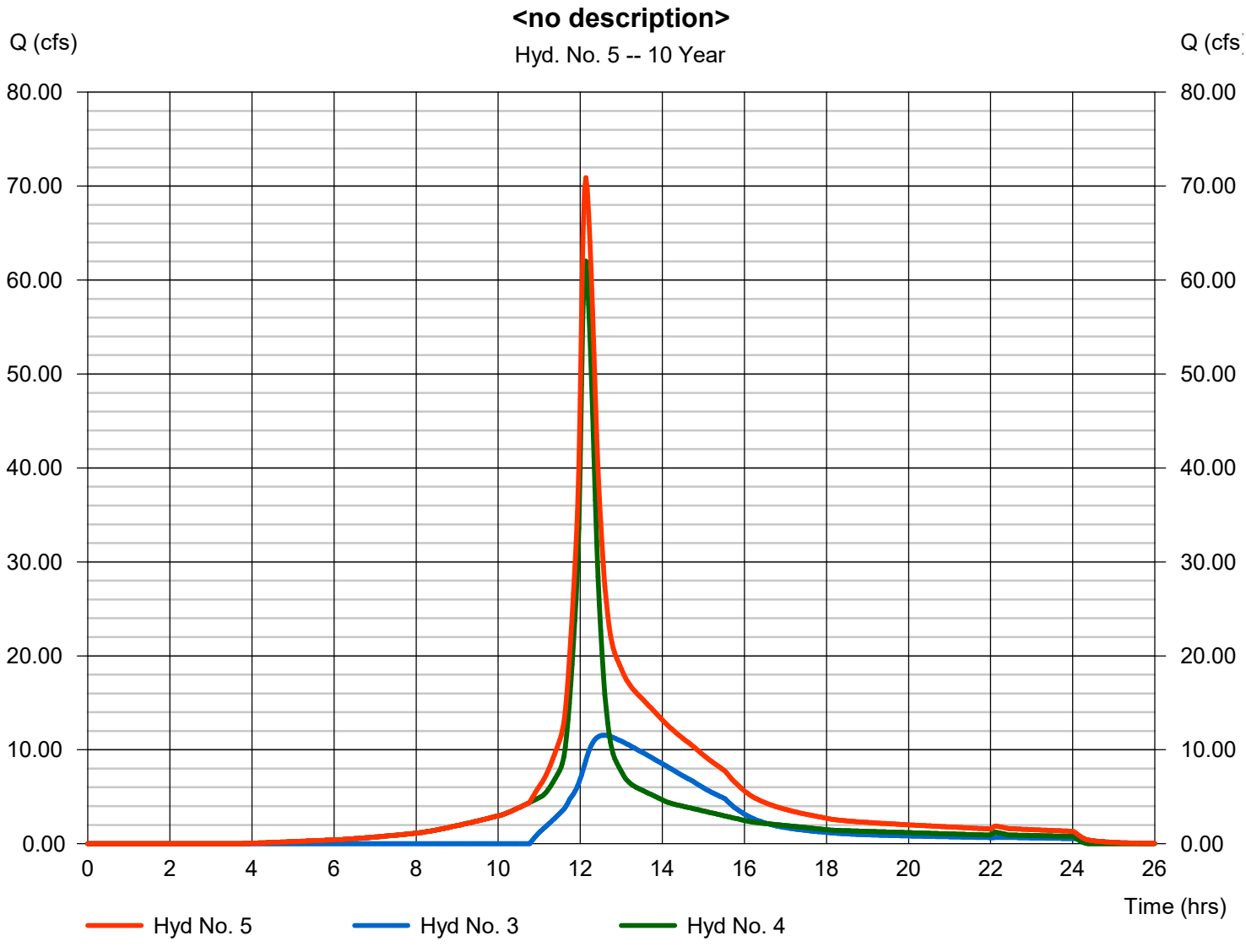
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 5

<no description>

Hydrograph type	= Combine	Peak discharge	= 70.90 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 427,907 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 13.440 ac



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

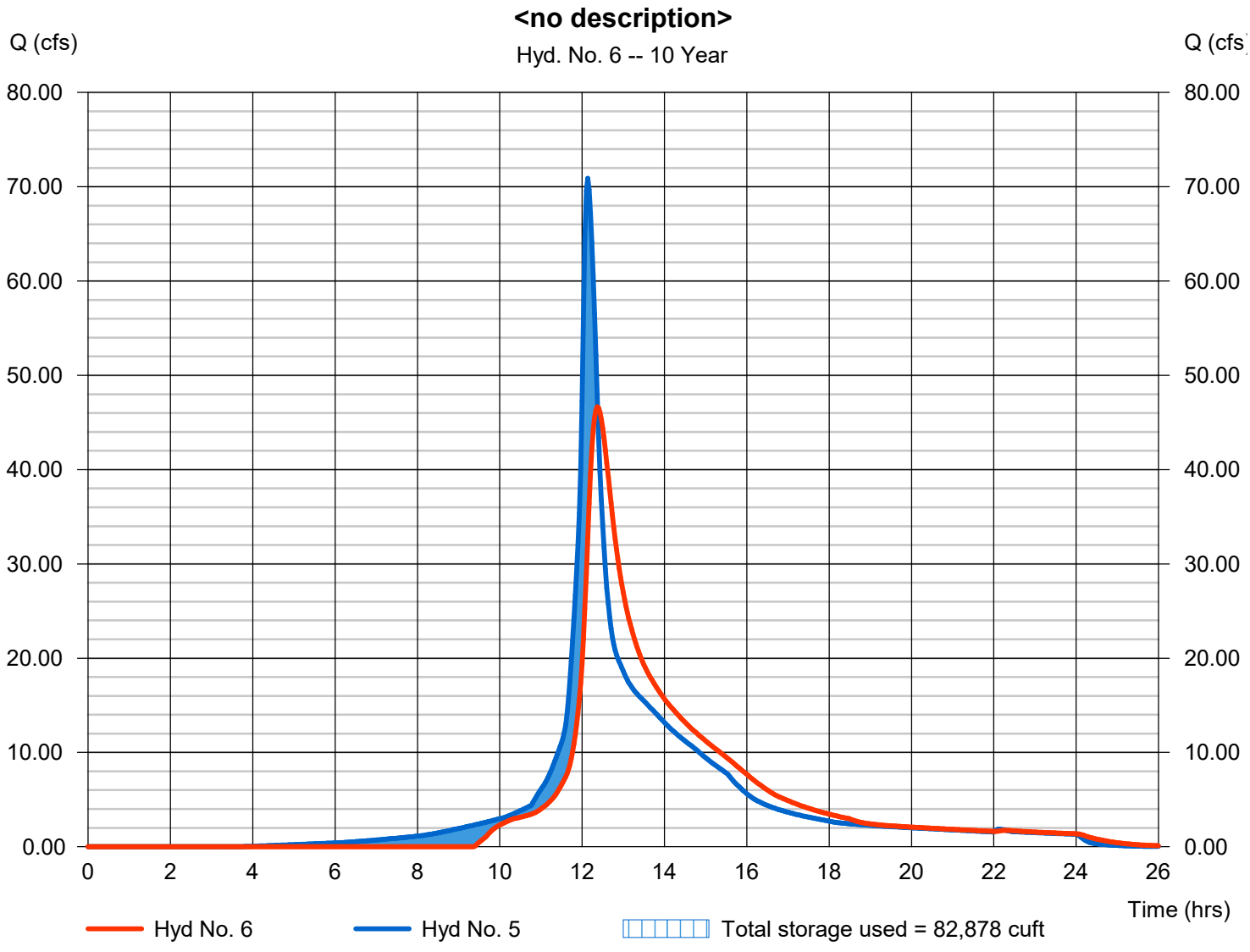
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 46.67 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.37 hrs
Time interval	= 2 min	Hyd. volume	= 412,741 cuft
Inflow hyd. No.	= 5 - <no description>	Max. Elevation	= 15.05 ft
Reservoir name	= Pond 2	Max. Storage	= 82,878 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	50.26	2	728	232,342	------	------	------	1-Post-Development Flow (Pond 1)
2	SCS Runoff	87.69	2	758	850,008	------	------	------	Pre-Development Flow
3	Reservoir	12.83	2	756	198,187	1	14.72	109,430	Pond 1
4	SCS Runoff	74.64	2	728	324,733	------	------	------	2-Post Development Flow (Pond 2)
5	Combine	84.51	2	728	522,920	3, 4	------	------	<no description>
6	Reservoir	56.49	2	742	507,755	5	15.22	94,570	<no description>

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

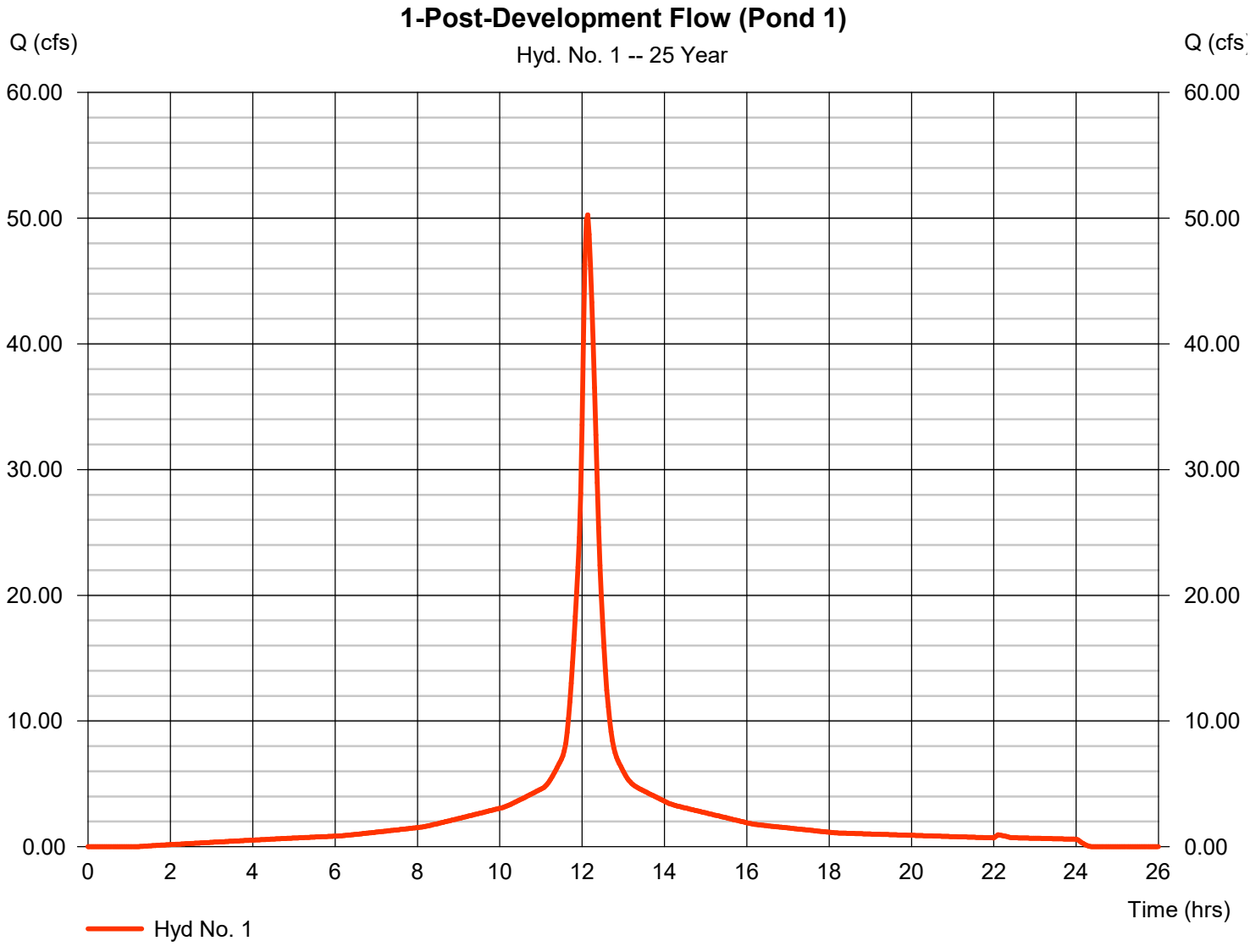
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 1

1-Post-Development Flow (Pond 1)

Hydrograph type	= SCS Runoff	Peak discharge	= 50.26 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 232,342 cuft
Drainage area	= 8.540 ac	Curve number	= 96*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 7.92 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(35.650 x 98) + (12.860 x 94) + (2.870 x 80)] / 8.540



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

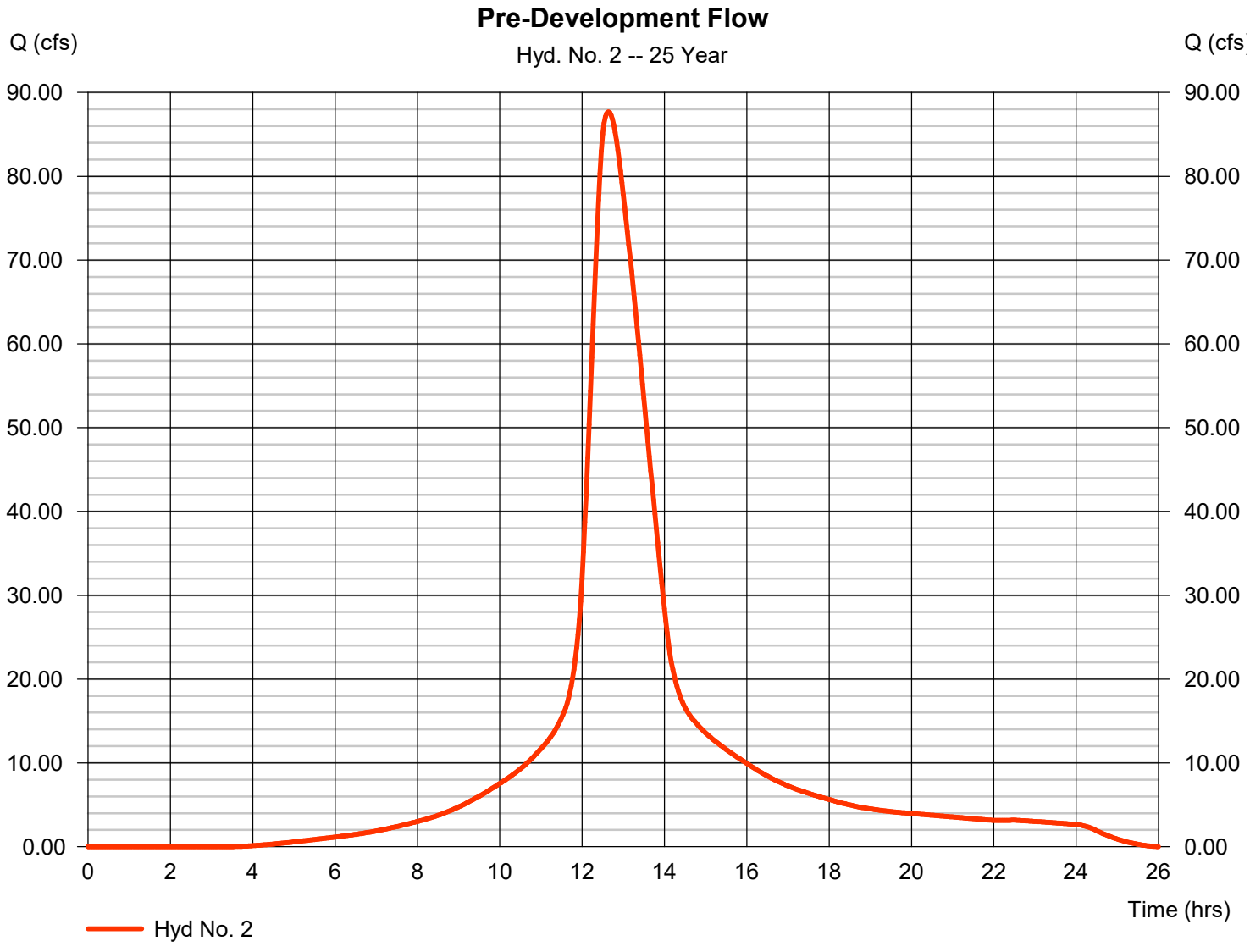
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 2

Pre-Development Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 87.69 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.63 hrs
Time interval	= 2 min	Hyd. volume	= 850,008 cuft
Drainage area	= 35.180 ac	Curve number	= 89
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 50.00 min
Total precip.	= 7.92 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

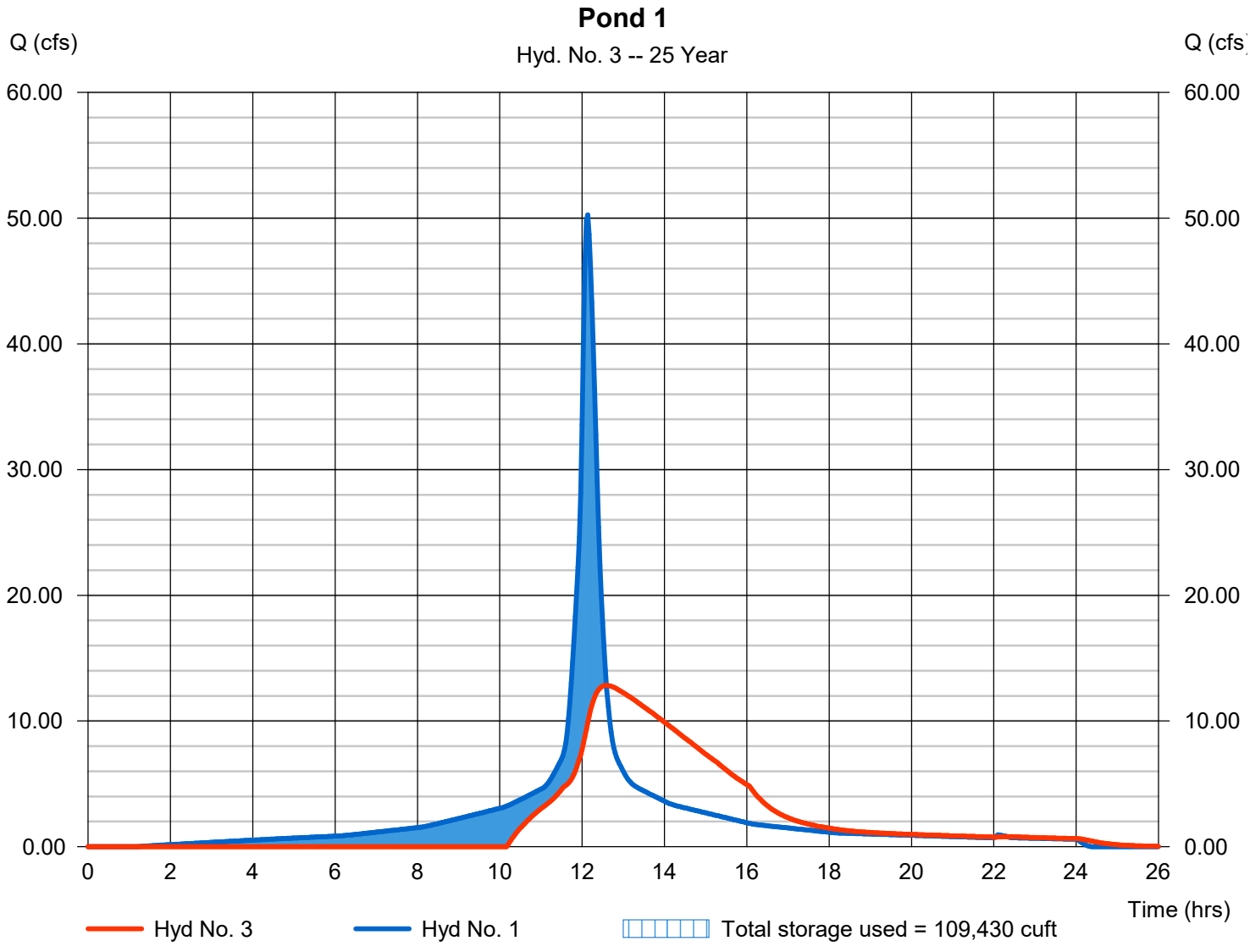
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 3

Pond 1

Hydrograph type	=	Reservoir	Peak discharge	=	12.83 cfs
Storm frequency	=	25 yrs	Time to peak	=	12.60 hrs
Time interval	=	2 min	Hyd. volume	=	198,187 cuft
Inflow hyd. No.	=	1 - 1-Post-Development Flow (Pond 1)	Max. Elevation	=	14.72 ft
Reservoir name	=	Pond 1	Max. Storage	=	109,430 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

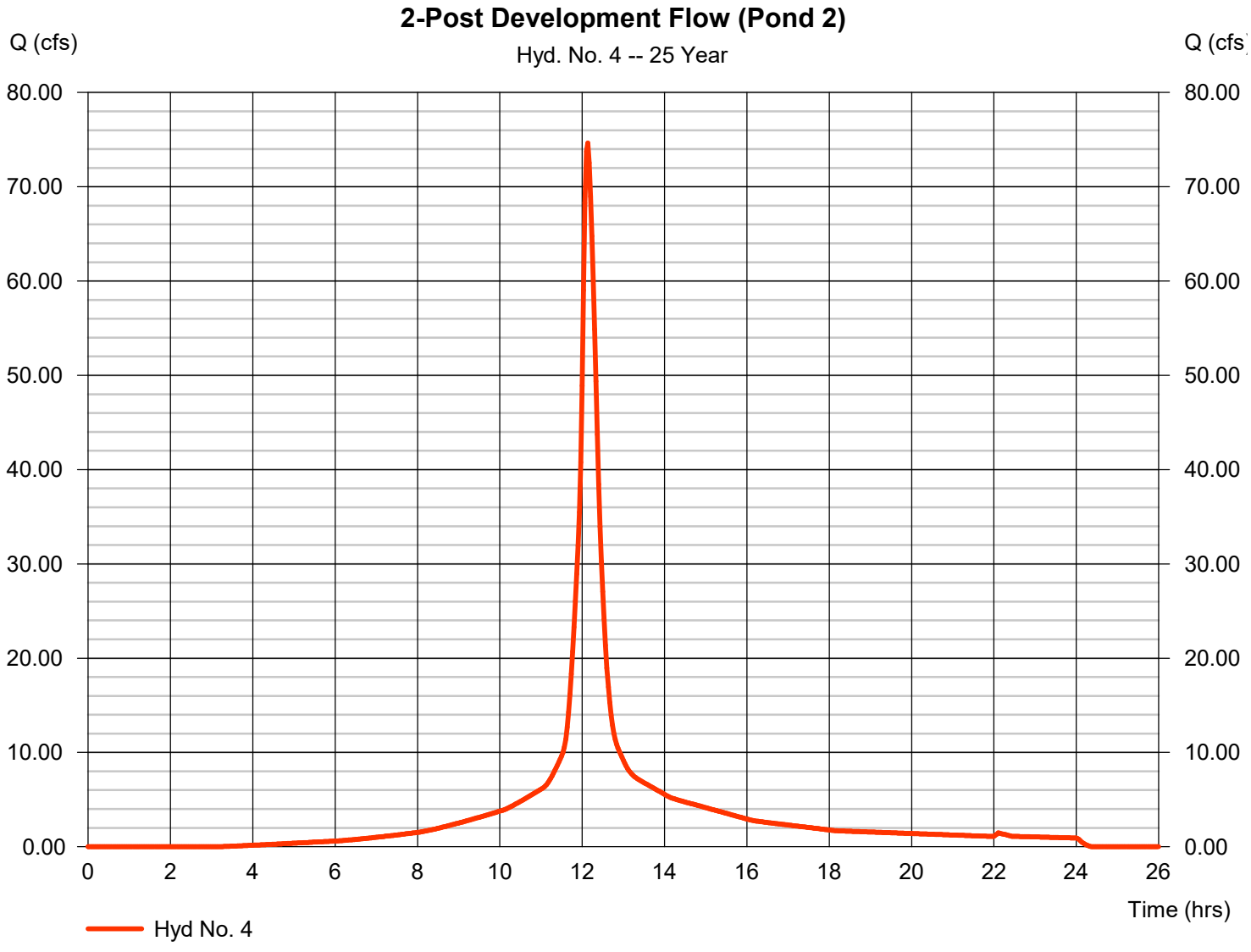
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 4

2-Post Development Flow (Pond 2)

Hydrograph type	=	SCS Runoff	Peak discharge	=	74.64 cfs
Storm frequency	=	25 yrs	Time to peak	=	12.13 hrs
Time interval	=	2 min	Hyd. volume	=	324,733 cuft
Drainage area	=	13.440 ac	Curve number	=	89*
Basin Slope	=	0.5 %	Hydraulic length	=	990 ft
Tc method	=	User	Time of conc. (Tc)	=	8.00 min
Total precip.	=	7.92 in	Distribution	=	Type III
Storm duration	=	24 hrs	Shape factor	=	300

* Composite (Area/CN) = [(9.500 x 86) + (3.940 x 96)] / 13.440



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

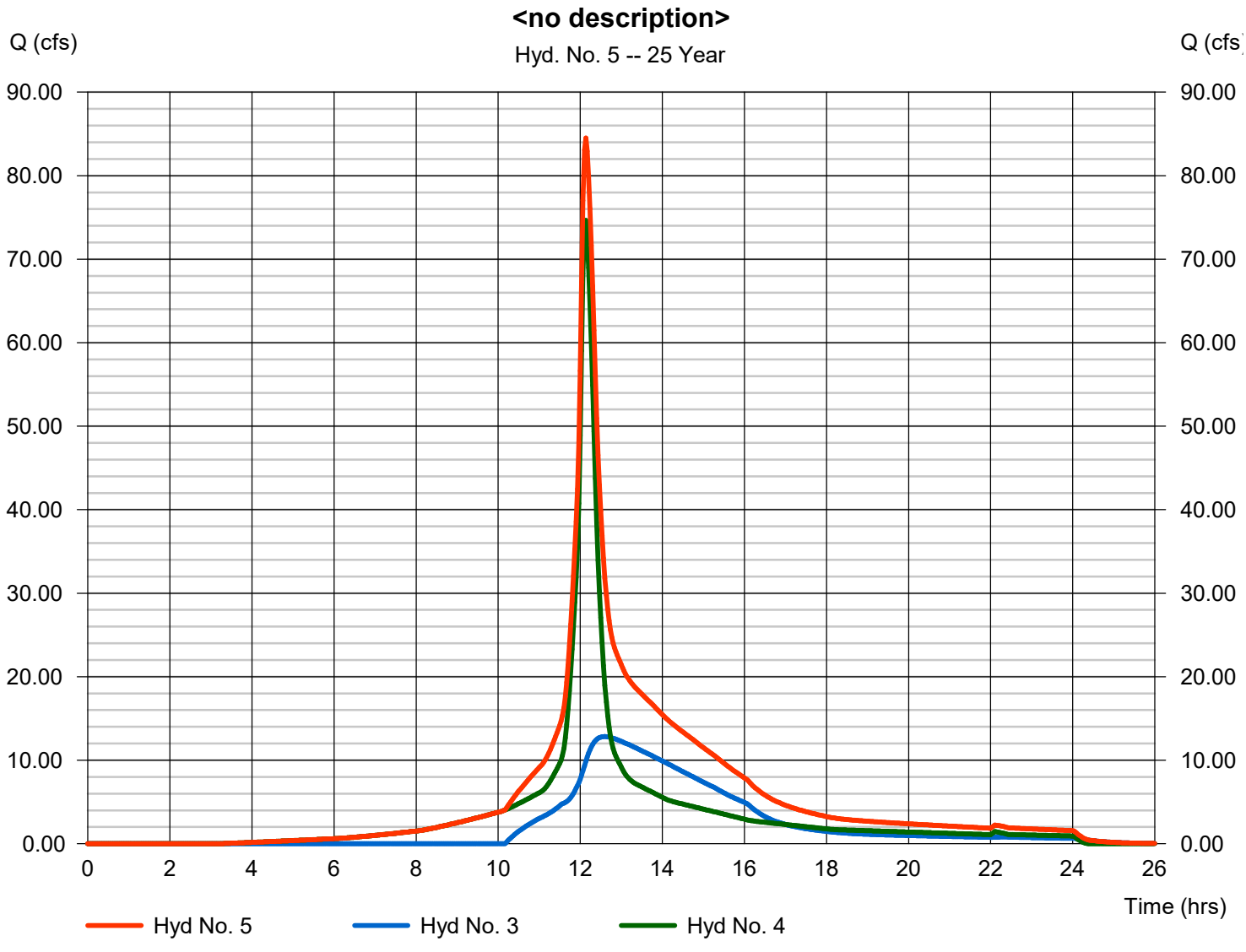
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 5

<no description>

Hydrograph type	= Combine	Peak discharge	= 84.51 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 522,920 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 13.440 ac



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

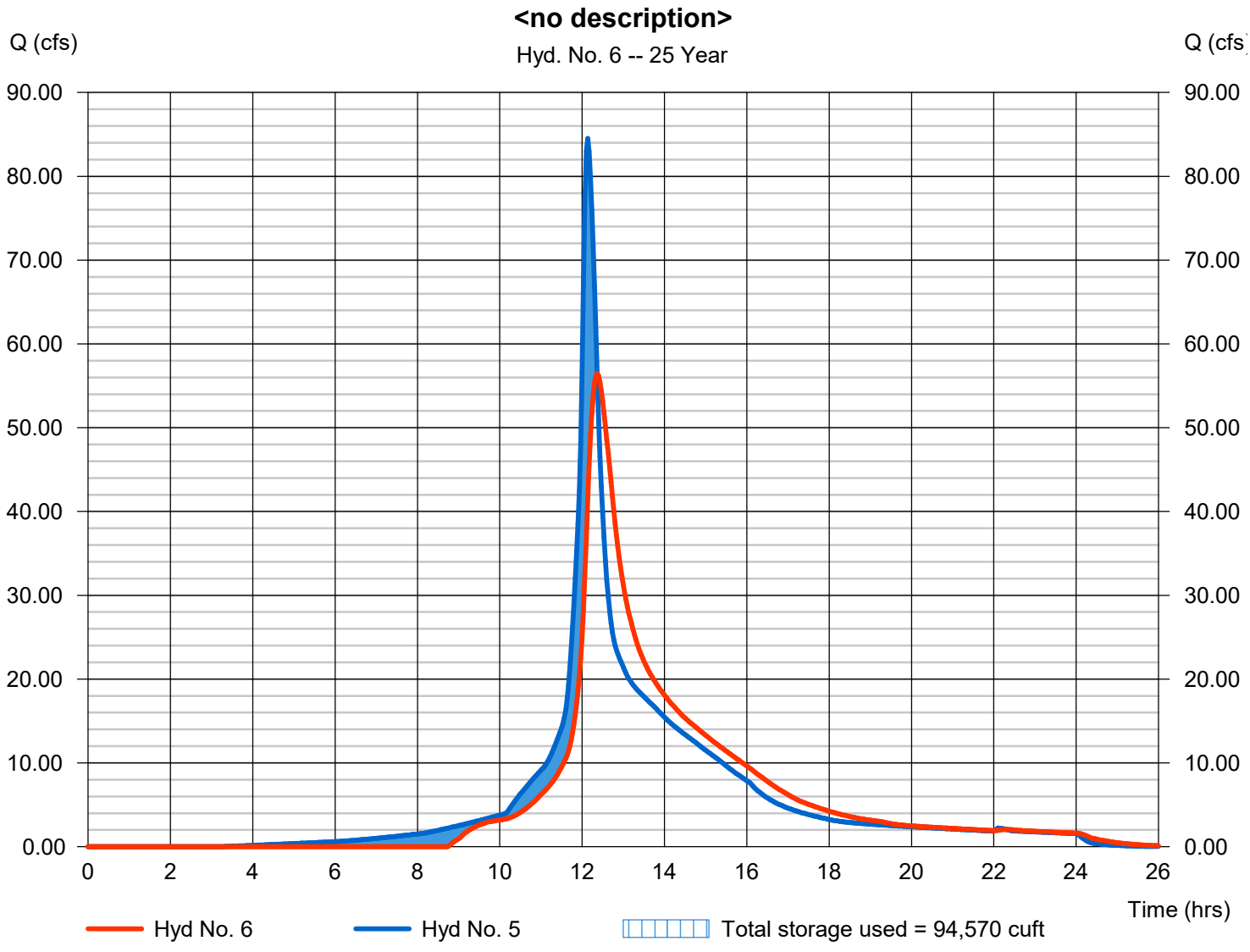
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 56.49 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.37 hrs
Time interval	= 2 min	Hyd. volume	= 507,755 cuft
Inflow hyd. No.	= 5 - <no description>	Max. Elevation	= 15.22 ft
Reservoir name	= Pond 2	Max. Storage	= 94,570 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	56.46	2	728	262,249	------	------	------	1-Post-Development Flow (Pond 1)
2	SCS Runoff	99.62	2	758	971,345	------	------	------	Pre-Development Flow
3	Reservoir	13.78	2	756	228,095	1	14.83	120,951	Pond 1
4	SCS Runoff	84.67	2	728	371,087	------	------	------	2-Post Development Flow (Pond 2)
5	Combine	95.27	2	728	599,182	3, 4	------	------	<no description>
6	Reservoir	64.30	2	742	584,017	5	15.35	103,376	<no description>

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

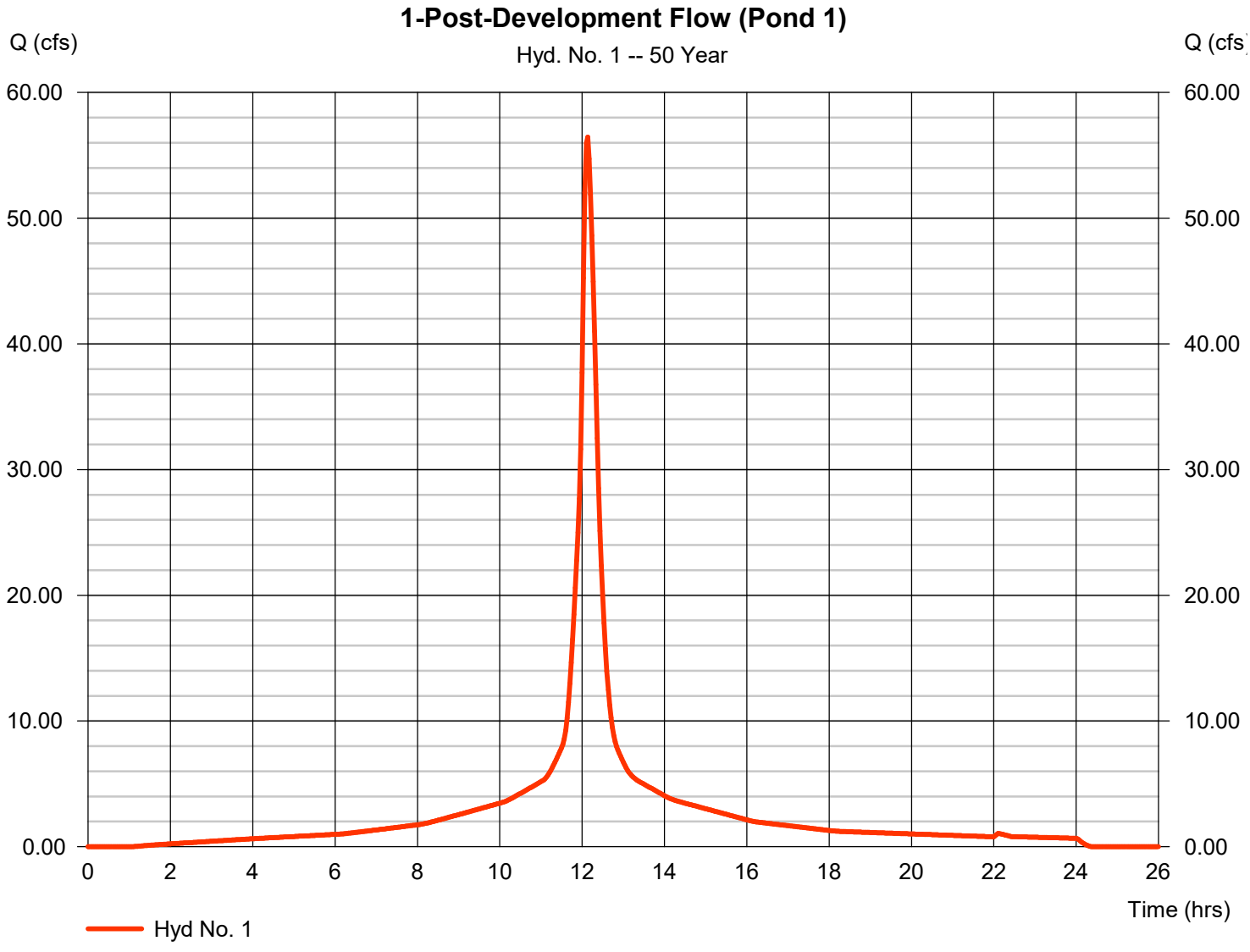
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 1

1-Post-Development Flow (Pond 1)

Hydrograph type	= SCS Runoff	Peak discharge	= 56.46 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 262,249 cuft
Drainage area	= 8.540 ac	Curve number	= 96*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 8.88 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(35.650 x 98) + (12.860 x 94) + (2.870 x 80)] / 8.540



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

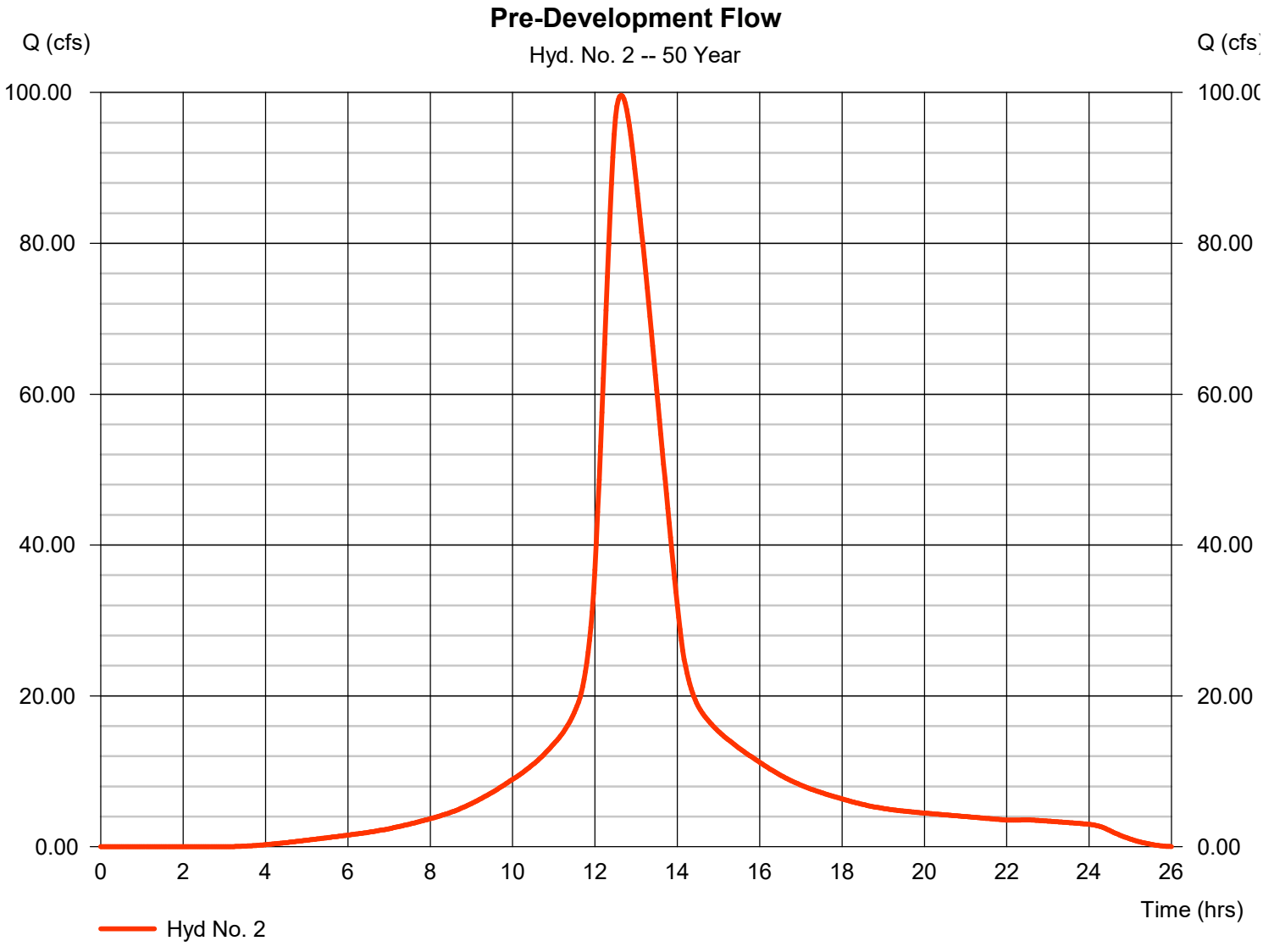
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 2

Pre-Development Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 99.62 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.63 hrs
Time interval	= 2 min	Hyd. volume	= 971,345 cuft
Drainage area	= 35.180 ac	Curve number	= 89
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 50.00 min
Total precip.	= 8.88 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

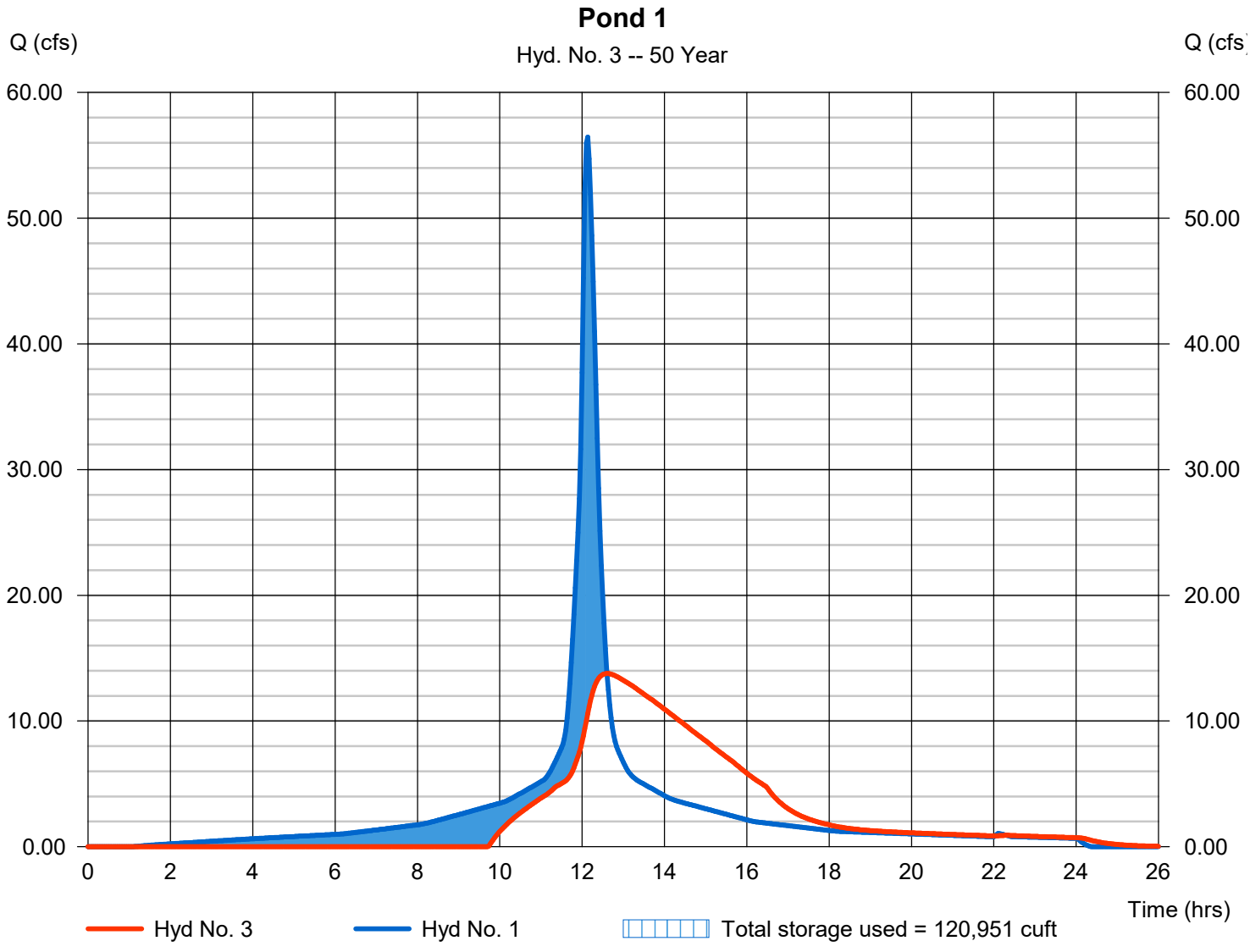
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 3

Pond 1

Hydrograph type	=	Reservoir	Peak discharge	=	13.78 cfs
Storm frequency	=	50 yrs	Time to peak	=	12.60 hrs
Time interval	=	2 min	Hyd. volume	=	228,095 cuft
Inflow hyd. No.	=	1 - 1-Post-Development Flow (Pond 1)	Max. Elevation	=	14.83 ft
Reservoir name	=	Pond 1	Max. Storage	=	120,951 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

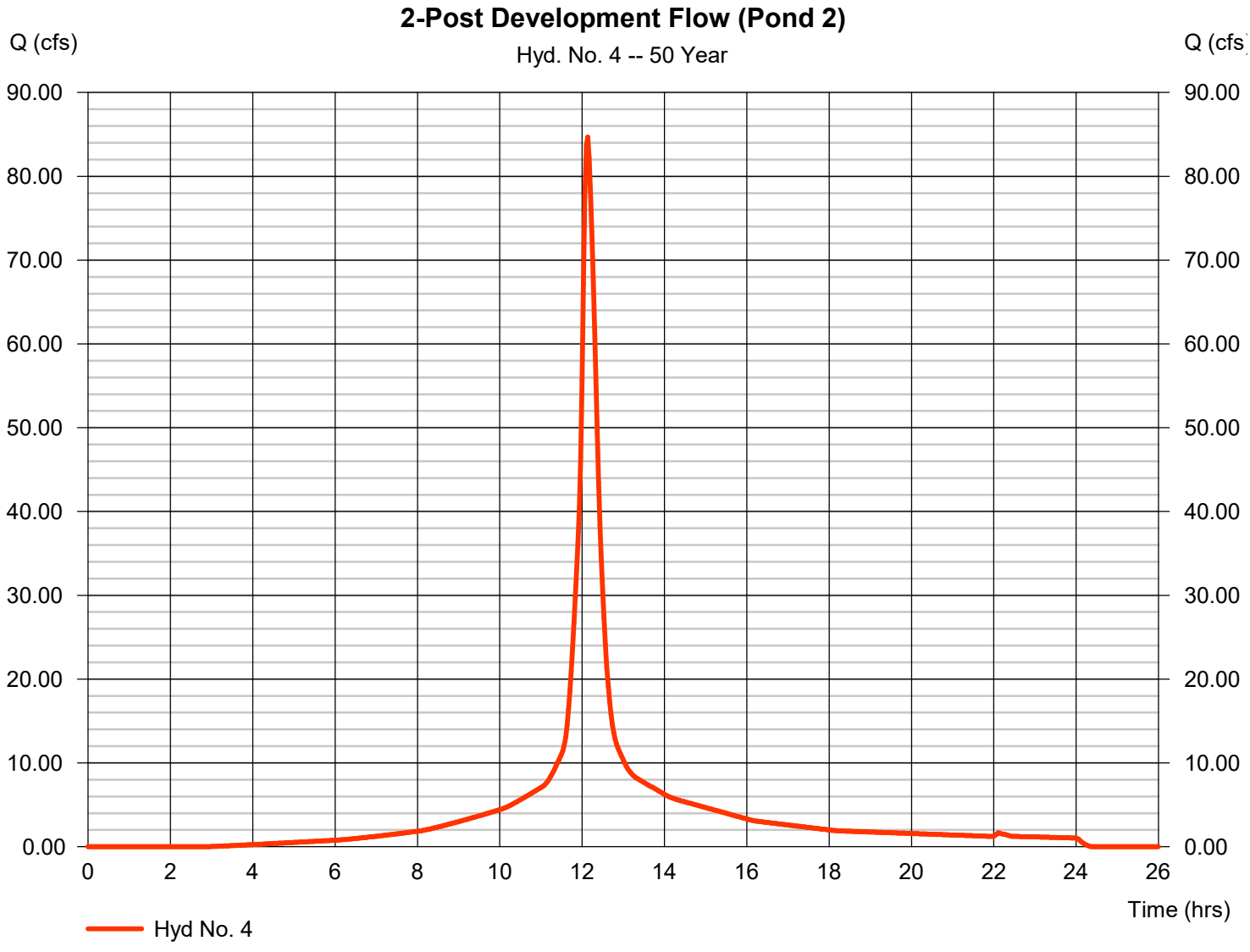
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 4

2-Post Development Flow (Pond 2)

Hydrograph type	=	SCS Runoff	Peak discharge	=	84.67 cfs
Storm frequency	=	50 yrs	Time to peak	=	12.13 hrs
Time interval	=	2 min	Hyd. volume	=	371,087 cuft
Drainage area	=	13.440 ac	Curve number	=	89*
Basin Slope	=	0.5 %	Hydraulic length	=	990 ft
Tc method	=	User	Time of conc. (Tc)	=	8.00 min
Total precip.	=	8.88 in	Distribution	=	Type III
Storm duration	=	24 hrs	Shape factor	=	300

* Composite (Area/CN) = [(9.500 x 86) + (3.940 x 96)] / 13.440



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

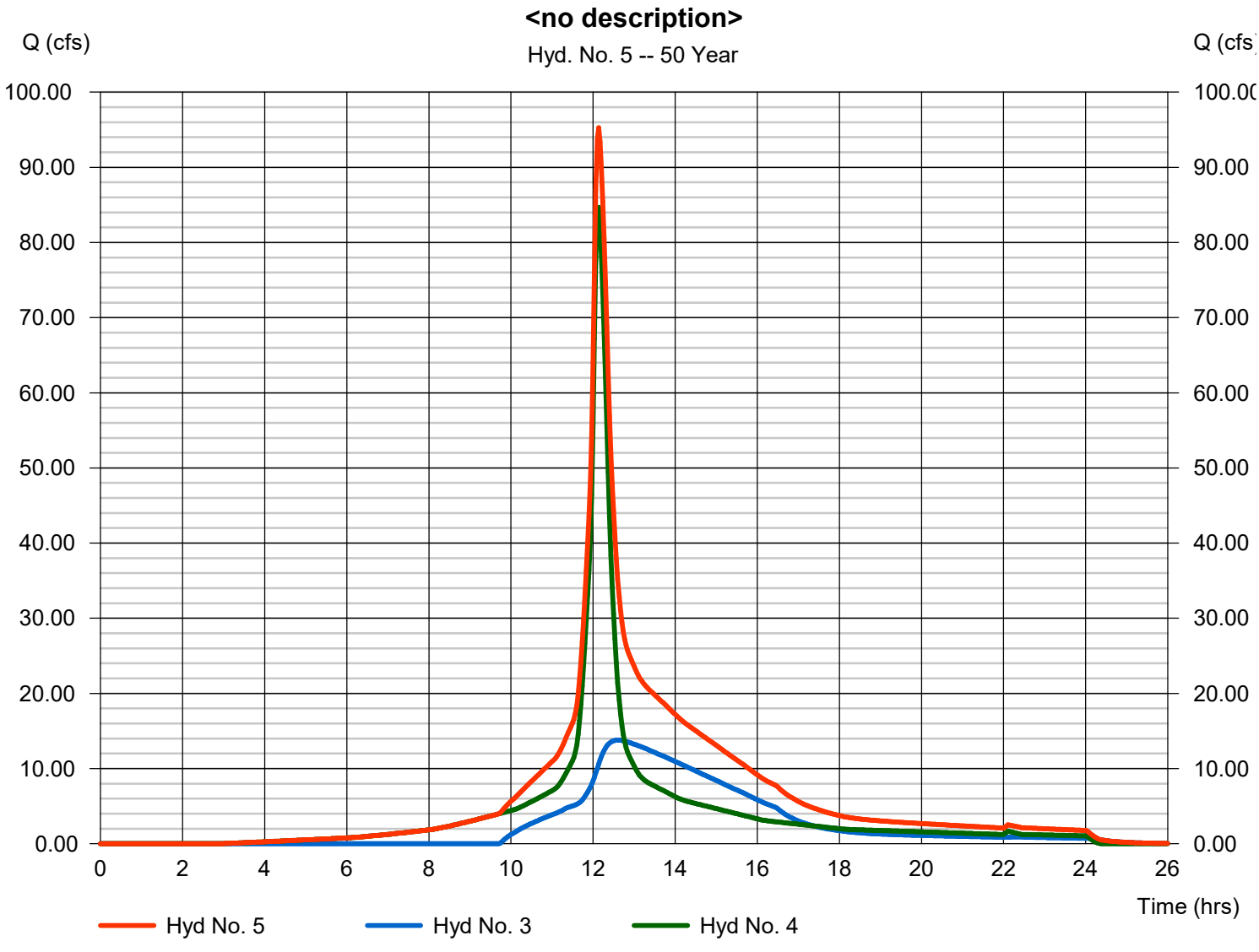
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 5

<no description>

Hydrograph type	= Combine	Peak discharge	= 95.27 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 599,182 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 13.440 ac



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

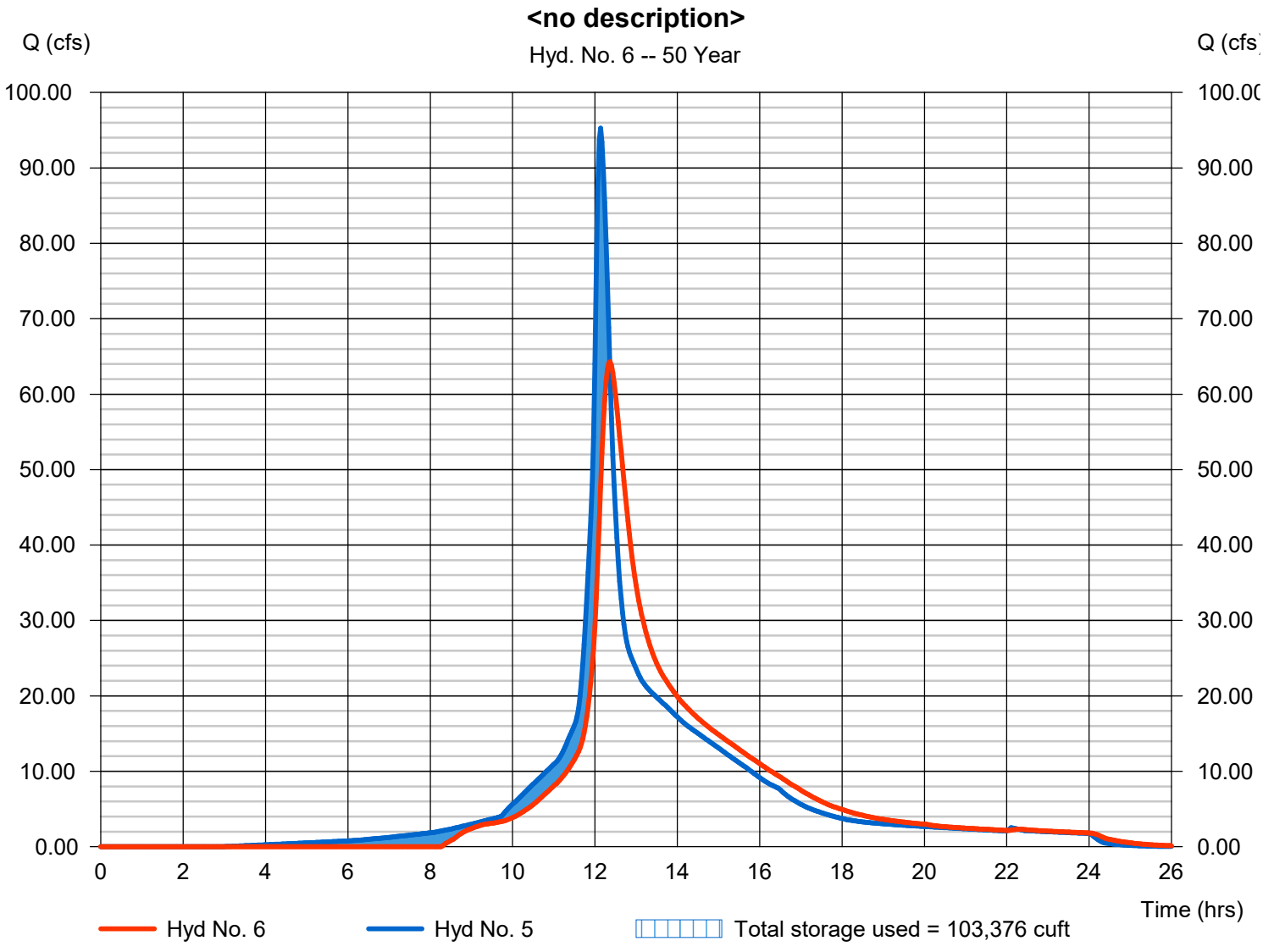
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 64.30 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.37 hrs
Time interval	= 2 min	Hyd. volume	= 584,017 cuft
Inflow hyd. No.	= 5 - <no description>	Max. Elevation	= 15.35 ft
Reservoir name	= Pond 2	Max. Storage	= 103,376 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	62.65	2	728	292,168	------	------	------	1-Post-Development Flow (Pond 1)
2	SCS Runoff	111.51	2	758	1,093,063	------	------	------	Pre-Development Flow
3	Reservoir	14.68	2	756	258,014	1	14.94	132,629	Pond 1
4	SCS Runoff	94.67	2	728	417,588	------	------	------	2-Post Development Flow (Pond 2)
5	Combine	105.94	2	728	675,602	3, 4	------	------	<no description>
6	Reservoir	72.09	2	742	660,436	5	15.48	111,819	<no description>

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

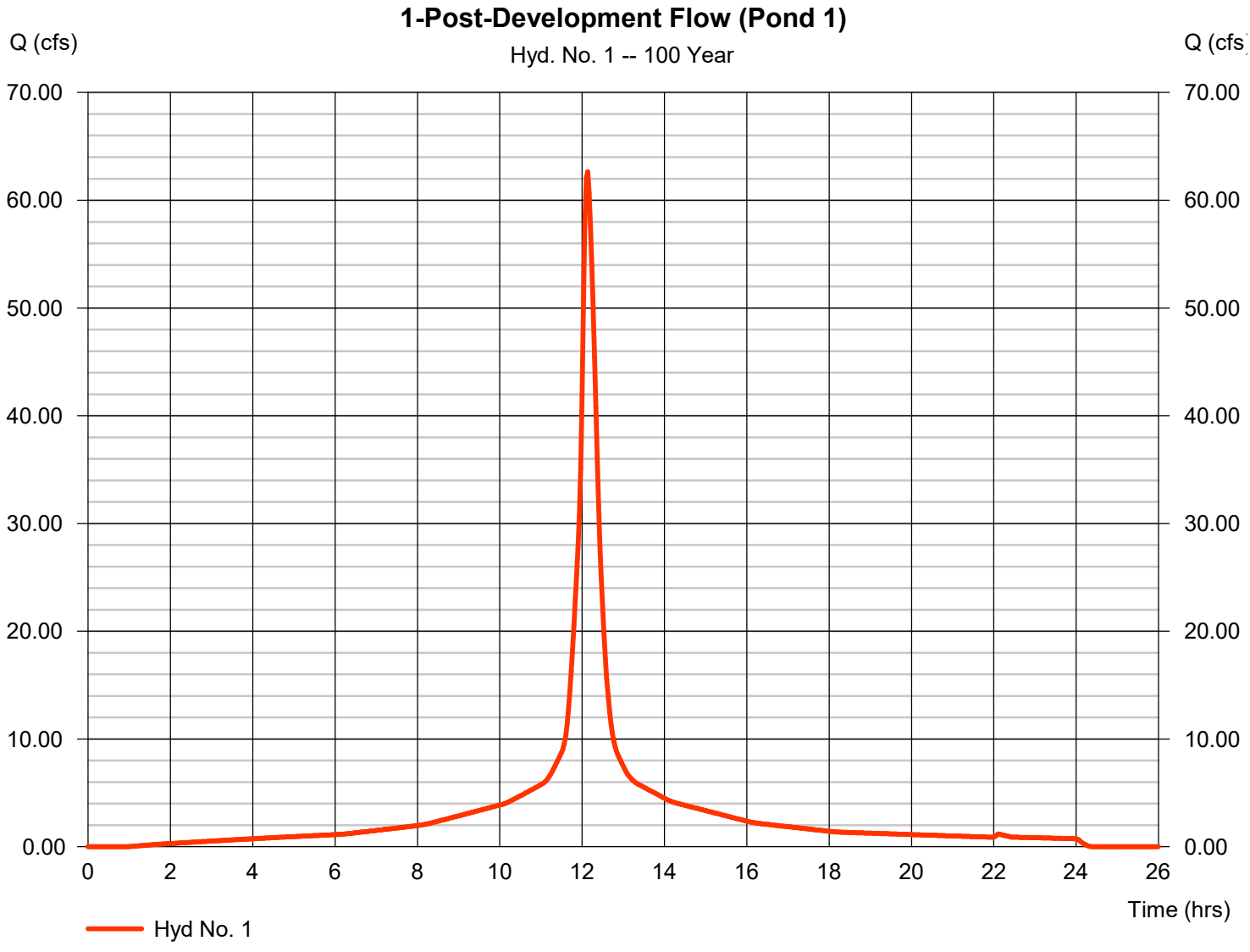
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 1

1-Post-Development Flow (Pond 1)

Hydrograph type	= SCS Runoff	Peak discharge	= 62.65 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 292,168 cuft
Drainage area	= 8.540 ac	Curve number	= 96*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 9.84 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(35.650 x 98) + (12.860 x 94) + (2.870 x 80)] / 8.540



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

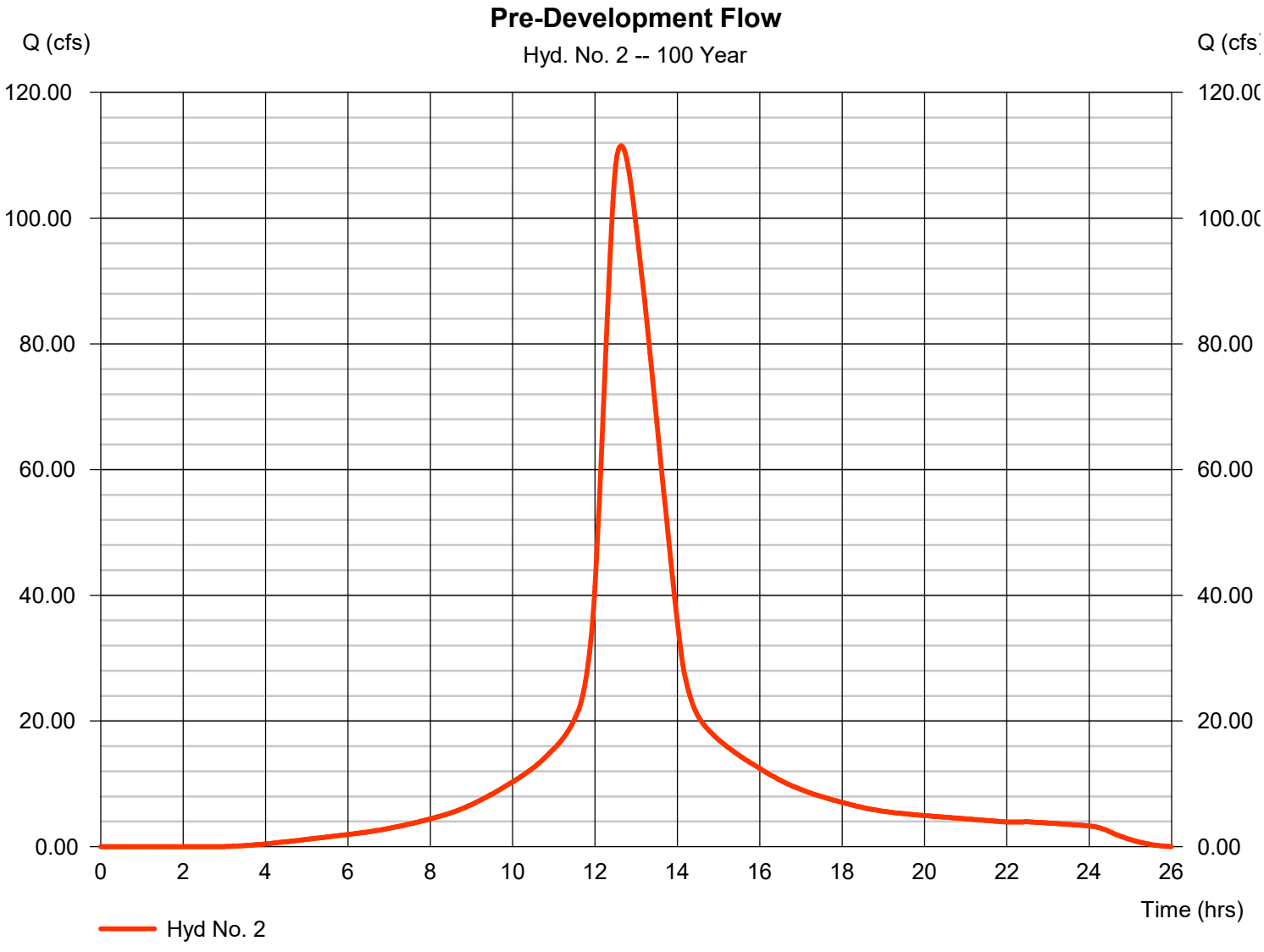
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 2

Pre-Development Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 111.51 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.63 hrs
Time interval	= 2 min	Hyd. volume	= 1,093,063 cuft
Drainage area	= 35.180 ac	Curve number	= 89
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 50.00 min
Total precip.	= 9.84 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

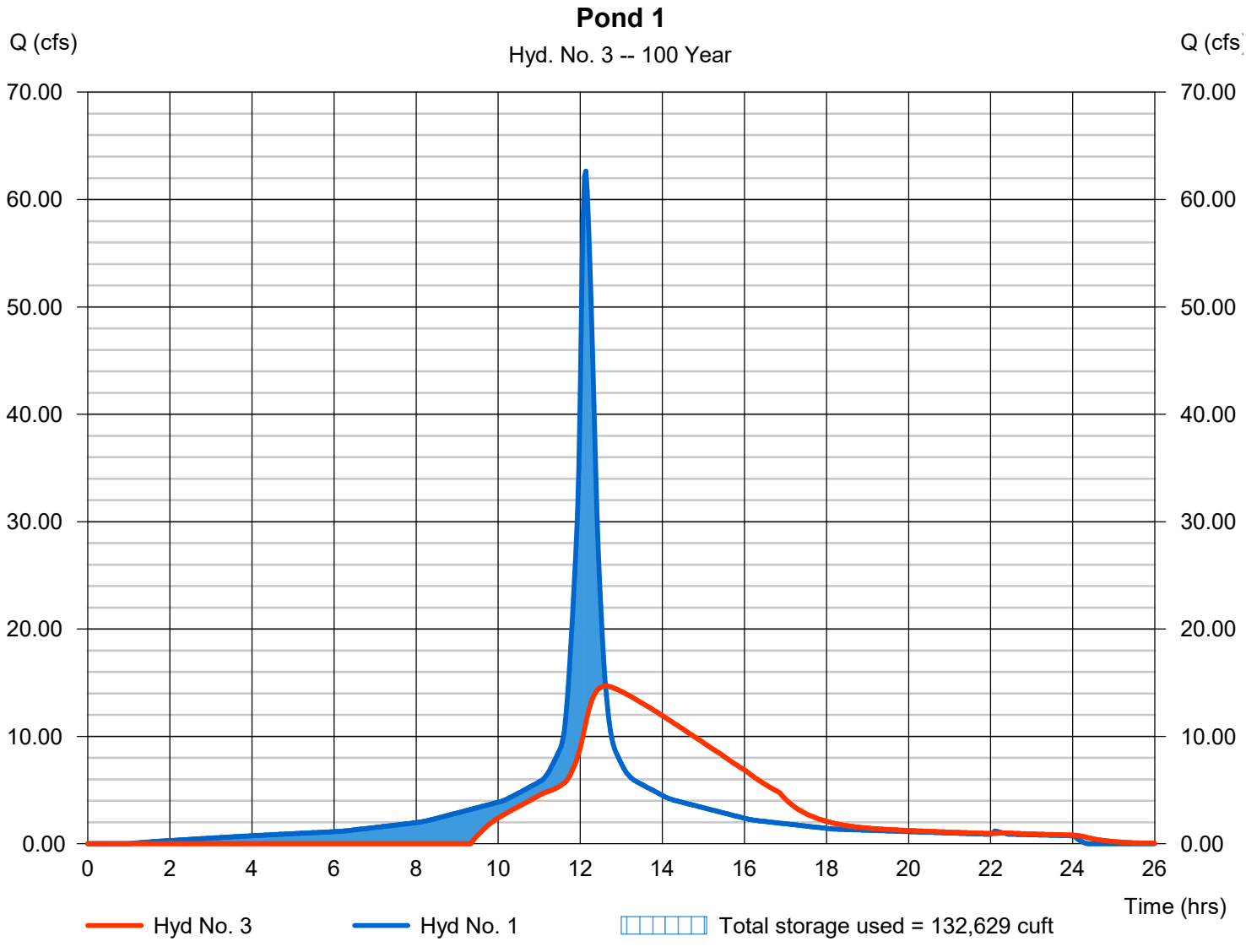
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 3

Pond 1

Hydrograph type	= Reservoir	Peak discharge	= 14.68 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.60 hrs
Time interval	= 2 min	Hyd. volume	= 258,014 cuft
Inflow hyd. No.	= 1 - 1-Post-Development Flow (Pond E)	Max. Elevation	= 14.94 ft
Reservoir name	= Pond 1	Max. Storage	= 132,629 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

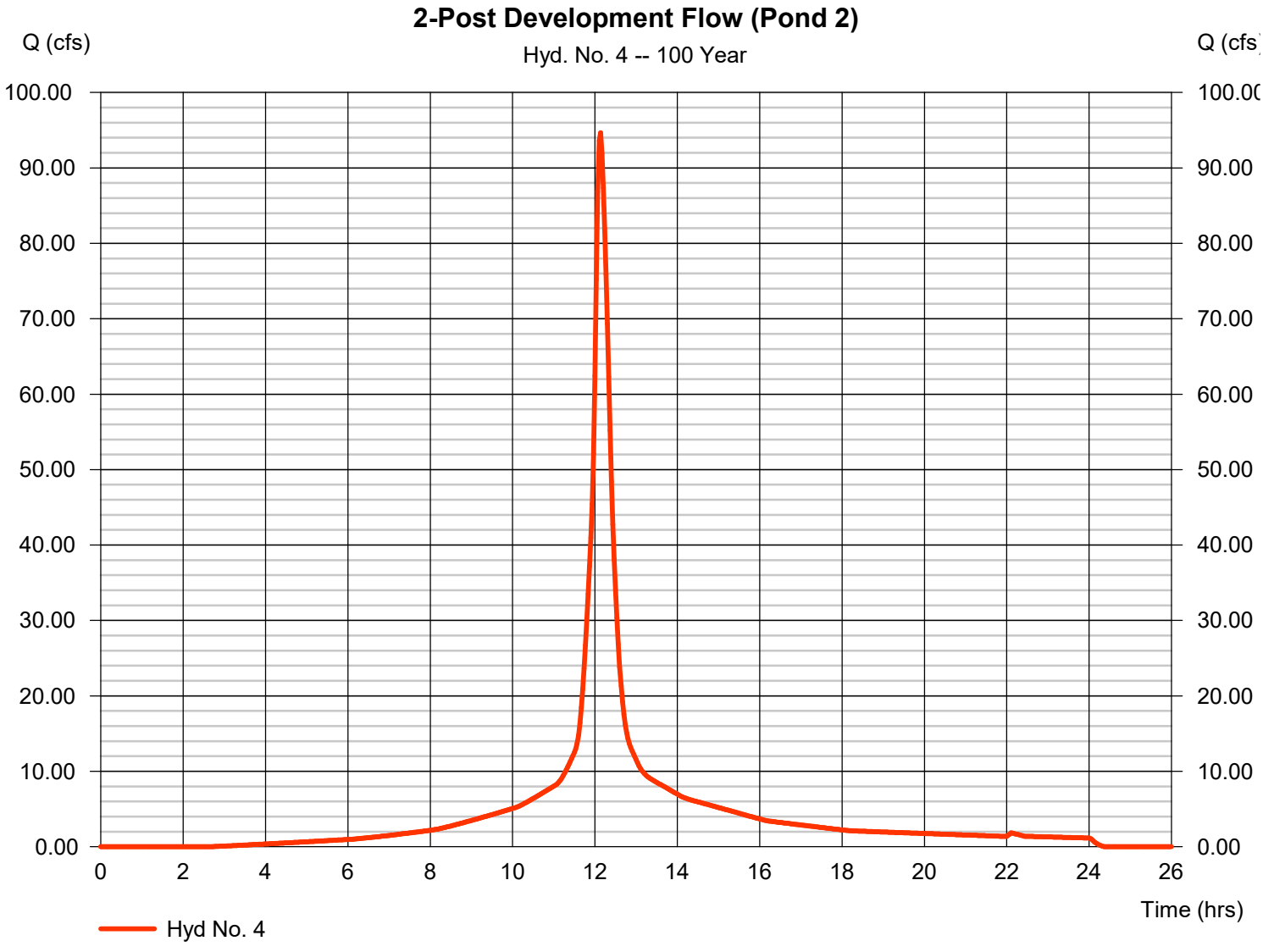
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 4

2-Post Development Flow (Pond 2)

Hydrograph type	= SCS Runoff	Peak discharge	= 94.67 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 417,588 cuft
Drainage area	= 13.440 ac	Curve number	= 89*
Basin Slope	= 0.5 %	Hydraulic length	= 990 ft
Tc method	= User	Time of conc. (Tc)	= 8.00 min
Total precip.	= 9.84 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

* Composite (Area/CN) = [(9.500 x 86) + (3.940 x 96)] / 13.440



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

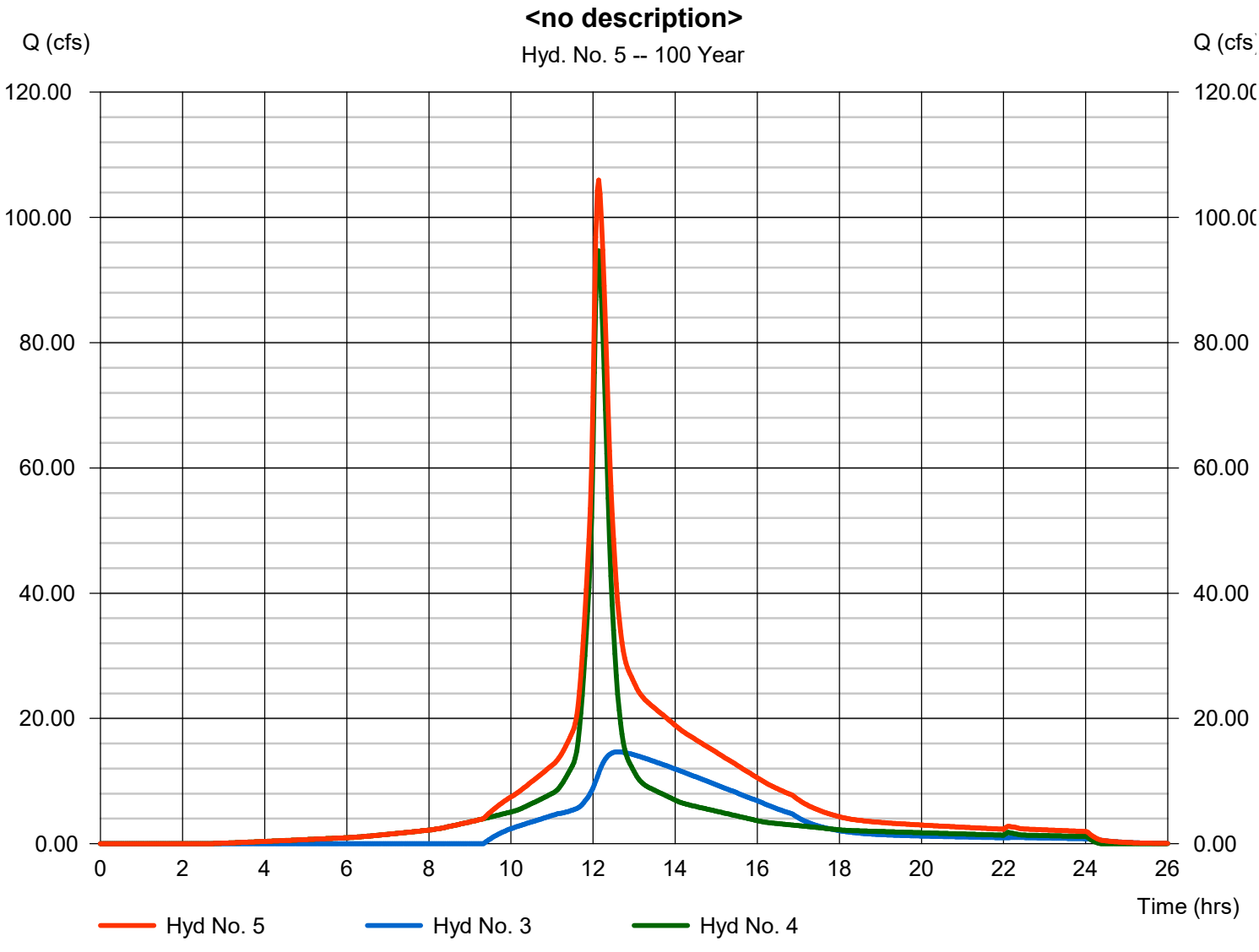
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 5

<no description>

Hydrograph type	= Combine	Peak discharge	= 105.94 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 675,602 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 13.440 ac



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydrograph Report

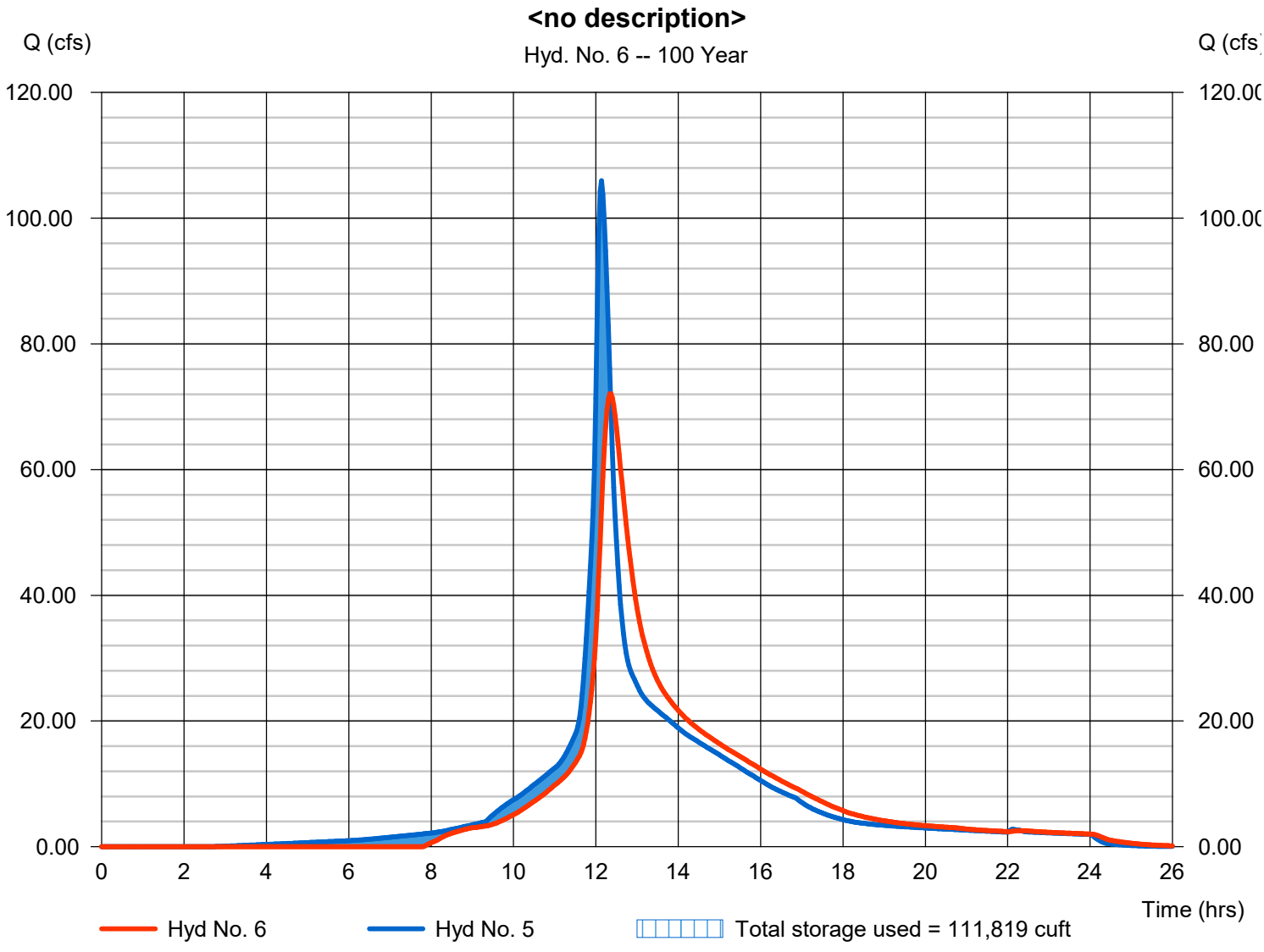
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Hyd. No. 6

<no description>

Hydrograph type	= Reservoir	Peak discharge	= 72.09 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.37 hrs
Time interval	= 2 min	Hyd. volume	= 660,436 cuft
Inflow hyd. No.	= 5 - <no description>	Max. Elevation	= 15.48 ft
Reservoir name	= Pond 2	Max. Storage	= 111,819 cuft

Storage Indication method used.



Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

Hydraflow Rainfall Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 05 / 17 / 2021

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	47.7900	12.0000	0.7585	--------
2	117.5700	20.0000	0.9086	--------
3	0.0000	0.0000	0.0000	--------
5	125.4600	23.0000	0.8696	--------
10	126.1200	24.0000	0.8401	--------
25	167.1700	28.0000	0.8597	--------
50	191.5700	30.0000	0.8619	--------
100	220.0000	32.0000	0.8671	--------

File name: savannah.IDF

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	5.57	4.58	3.92	3.45	3.09	2.81	2.58	2.39	2.23	2.09	1.97	1.86
2	6.31	5.35	4.65	4.12	3.70	3.36	3.08	2.85	2.65	2.48	2.33	2.19
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	6.92	6.00	5.31	4.76	4.33	3.97	3.67	3.42	3.20	3.01	2.84	2.69
10	7.45	6.52	5.81	5.25	4.80	4.42	4.10	3.83	3.60	3.39	3.21	3.05
25	8.27	7.33	6.59	6.00	5.51	5.09	4.75	4.44	4.18	3.95	3.74	3.56
50	8.94	7.97	7.20	6.58	6.06	5.62	5.25	4.92	4.64	4.39	4.16	3.96
100	9.61	8.61	7.81	7.15	6.61	6.14	5.74	5.39	5.09	4.82	4.58	4.36

Tc = time in minutes. Values may exceed 60.

Precip. file name: SAVANNAH.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	3.60	4.80	0.00	6.00	6.72	7.92	8.88	9.84
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-1st	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	3.60	4.80	0.00	6.00	6.72	7.92	8.88	9.84

Attachment: 7-0977-01-028 HENDLEY RD LINEAGE S-SITE PLAN JUNE 2021-Hydro 5.17.21 (2456 : Site Plan Review Application (Specific) 7-

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City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 06/24/21 06:30 PM
Department: City Administrator
Category: Ordinance
Prepared By: Shanta Scarboro
Department Head: Edwin L. Booth

AGENDA ITEM (ID # 2463)

DOC ID: 2463

Ordinance No. 21-01, Budget FY22, Second Reading

Issue/Item:

Ordinance No. 21-01, Budget FY22, Second Reading

ATTACHMENTS:

- Ordinance No. 21-01 (PDF)
- FY22 PROPOSED BUDGET WORKSHEET (PDF)

City of Port Wentworth

ORDINANCE NO. 21-01

An ORDINANCE for the purpose of adopting the annual budget for the City of Port Wentworth for the period of July 1, 2021 through June 30, 2022.

Be it ordained by the Mayor and Council of the City of Port Wentworth, Georgia, and it is hereby ordained by the authority thereof:

Section 1 The anticipated revenues and expenses for the General Fund for the fiscal year 2021-2022 include:

TOTAL REVENUES	$ **11,811,949**
TOTAL EXPENSES	$ **11,811,949**

Section 2 The anticipated revenues and expenses for the Water & Sewer Fund for the fiscal year 2021-2022 include:

TOTAL REVENUES	$ **5,477,766**
TOTAL EXPENSES	$ **5,477,766**

Section 3 The anticipated revenues and expenses for the Hotel/Motel Fund for the fiscal year 2021-2022 include:

TOTAL REVENUES	$ **473,872**
TOTAL EXPENSES	$ **473,872**

Section 4 The anticipated revenues and expenses for the SPLOST Fund for the fiscal year 2021-2022 include:

TOTAL REVENUES	$ **1,693,350**
TOTAL EXPENSES	$ **1,693,350**

APPROVED BY MAYOR AND COUNCIL OF THE CITY OF PORT WENTWORTH THIS _____ DAY OF_____, 2021.

1st Reading: _____

2nd Reading: _____

ATTEST:

_____ _____

Gary Norton, Mayor Clerk of Council

Attachment: Ordinance No. 21-01 (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(WORKSI DR
TAXES							
100-311100 PROPERTY TAX	1,922,736	2,059,761	2,024,019	0	0	2,162,749	
100-311200 CONTINGENCY REVENUE	0	0	100,000	0	0	0	
100-311340 INTANGIBLE RECORDING TAX	43,412	49,522	47,392	0	0	51,200	
100-311350 AD VALOREM TAX - RAILROAD EQU	551	3,776	610	0	0	3,776	
100-311600 REAL ESTATE TRANSFER TAX	27,404	24,491	23,900	0	0	27,404	
100-311700 FRANCHISE TAX	802,461	804,677	809,988	0	0	804,677	
100-313100 LOCAL OPTION SALES TAX	1,986,251	1,905,373	2,035,989	0	0	2,135,000	
100-313900 ENERGY EXCISE TAX	37,035	33,832	36,000	0	0	36,000	
100-314200 BEVERAGE TAX	224,840	247,440	250,000	0	0	256,000	
100-314300 MIX DRINK TAX	4,241	8,547	9,211	0	0	9,211	
100-316100 OCCUPATION TAX	129,254	135,051	127,065	0	0	135,051	
100-316200 INSURANCE PREMIUM TAX	384,106	408,006	408,006	0	0	408,006	
TOTAL TAXES	5,562,289	5,680,475	5,872,180	0	0	6,029,074	
LICENSES AND PERMITS							
100-321100 ALCOHOLIC BEVERAGE LICENSE	50,297	50,920	48,360	0	0	50,920	
100-323100 BUILDING PERMITS	325,632	386,707	353,895	0	0	401,000	
100-323120 BUILDING INSPECTION FEES	1,500	1,800	1,700	0	0	1,800	
TOTAL LICENSES AND PERMITS	377,429	439,427	403,955	0	0	453,720	
INTERGOVERNMENTAL REVENU							
100-331150 FEMA DISASTER RECOVERY	0	19,693	0	0	0	0	
100-331351 SAFER FIRE GRANT	0	0	0	0	0	0	
100-334151 STATE OF GA - GRANT	0	0	0	0	0	0	
100-334152 STATE OF GA - LMIG	105,115	104,129	105,000	0	0	104,129	
100-334153 DOHS - FIRE GRANT	0	0	0	0	0	0	
100-334154 STATE OF GA - GEMA	159,702	0	0	0	0	0	
100-336000 CHATHAM-SAVANNAH DRUG TASK FO	35,396	0	59,908	0	0	0	
TOTAL INTERGOVERNMENTAL REVENU	300,213	123,822	164,908	0	0	104,129	
CHARGES FOR SERVICES							
100-341321 FIRE IMPACT FEES	0	0	0	0	0	100,000	
100-341390 BUILDING PLAN REVIEW FEE	84,820	114,083	100,446	0	0	114,082	
100-341391 SITE PLAN REVIEW	7,088	11,486	11,486	0	0	11,486	
100-341392 SUBDIVISION REVIEW	10,390	14,534	12,563	0	0	14,534	
100-341393 ZONING FEES	14,361	8,854	8,854	0	0	8,854	
100-341394 ENGINEERING FEE REIMBURSEMENT	0	0	0	0	0	0	
100-342200 FIRE DEPARTMENT SERVICES	402,175	503,131	503,131	0	0	503,131	
100-342900 FIRE DEPT-MISC.	6,408	8,550	8,550	0	0	8,550	
100-343900 CULVERTS AND MAINTENANCE	0	0	0	0	0	0	
100-344110 SANITATION FEES	1,009,720	1,090,893	1,002,750	0	0	1,195,437	
100-344111 CONTAINER NEW SERVICE FEE	47,140	46,464	45,620	0	0	46,463	
100-344150 LANDFILL HOST FEE	78,203	71,585	66,230	0	0	71,585	
100-346903 LATE PMT PENALTIES	17,759	16,900	19,576	0	0	16,900	
100-347501 FOOTBALL REGISTRATION	1,100	870	870	0	0	870	
100-347502 BASEBALL/SOFTBALL/T-BALL REGI	2,055	665	875	0	0	665	
100-347503 BASKETBALL REGISTRATION	2,165	2,160	2,160	0	0	2,160	
100-347504 SOCCER	1,258	1,430	1,430	0	0	1,430	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(WORKSI
100-347505 TUMBLING REGISTRATION	2,658	1,680	1,575	0	0	1,680	DR
100-347506 SUMMER CAMP REGISTRATION	30,170	7,920	30,170	0	0	30,170	
100-347507 CHEERLEADING REGISTRATION	505	280	280	0	0	280	
100-347508 FITNESS CLASS REGISTRATION	0	0	700	0	0	0	
100-347509 DANCE REGISTRATION	0	800	765	0	0	800	
100-347510 WRESTLING REGISTRATION	240	0	0	0	0	0	
100-347511 VOLLEYBALL REGISTRATION	255	175	175	0	0	175	
100-347900 RECREATION SPONSORS	0	0	1,000	0	0	0	
100-347901 TOURNAMENT & ADMISSION FEES	1,682	1,178	1,178	0	0	1,178	
100-347902 RECREATION FEES	0	0	800	0	0	0	
100-347903 CONCESSIONS - GYM	1,242	526	800	0	0	526	
100-347905 CONCESSIONS - MOBLEY	1,403	680	2,500	0	0	680	
100-349300 BAD CHECK FEES	0	50	0	0	0	50	
100-349301 CUT-OFF FEES	0	0	0	0	0	0	
TOTAL CHARGES FOR SERVICES	1,722,796	1,904,892	1,824,484	0	0	2,131,686	
FINES AND FORFEITURES							
100-351170 COURT FINES & FORFEITURES	1,179,736	1,269,030	1,373,085	0	0	1,269,030	
100-351171 TECH FEES	266,226	301,216	334,721	0	0	301,216	
100-351900 POLICE MISCELLANEOUS FINES	8,208	11,931	1,178	0	0	11,931	
100-355117 COURT TECH FEES	0	0	0	0	0	0	
TOTAL FINES AND FORFEITURES	1,454,170	1,582,177	1,708,984	0	0	1,582,177	
INVESTMENT INCOME							
100-361000 INTEREST INCOME	164,614	120,463	134,894	0	0	18,054	
TOTAL INVESTMENT INCOME	164,614	120,463	134,894	0	0	18,054	
CONTRIB/DON FROM PRIVATE							
100-371100 CONTRIBUTIONS FROM PRIVATE DE	0	0	0	0	0	0	
100-371200 CONTRIB-VETERANS MEMORIAL	0	0	0	0	0	0	
TOTAL CONTRIB/DON FROM PRIVATE	0	0	0	0	0	0	
MISCELLANEOUS REVENUE							
100-381001 RENTAL - PUBLIC PROPERTIES	3,500	0	500	0	0	0	
100-381002 RENTAL - COMMUNITY CENTER	6,250	3,670	3,600	0	0	3,670	
100-381003 RENTAL - GYMNASIUM	1,500	925	1,000	0	0	925	
100-383001 INSURANCE REIMBURSEMENTS	0	0	0	0	0	0	
100-389000 OTHER MISCELLANEOUS REVENUE	24,702	12,140	10,000	0	0	12,140	
100-389001 SUFAD - RIDE ON TOYS	0	0	0	0	0	0	
100-389002 SUFAD - GOLF CART	4,960	345	0	0	0	0	
100-389003 STAND UP FOR AMERICA DAY	43,858	2,845	44,000	0	0	44,000	
100-389005 OVER/SHORT CASH RECEIPTS	(19)	(76)	0	0	0	0	
100-389006 FITZER/INTERSTATE TIRE	0	0	0	0	0	0	
100-389007 SUFAD CUPS	0	0	0	0	0	0	
TOTAL MISCELLANEOUS REVENUE	84,750	19,849	59,100	0	0	60,735	
OTHER FINANCING SOURCES							
100-391201 OPERATING TRANSFERS IN - HM	449,820	317,421	360,570	0	0	317,421	
100-391203 OPER TRANSFER IN - SPLOST	34	0	0	0	0	0	
100-391205 OPER TRANSFER IN - VEHICLE DE	0	0	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
100-391207 OPER TRANSFER IN - CONFISCATE	0	0	0	0	0	0	
100-391400 OPER TRANSFER IN - FUND BALAN	0	0	1,139,673	0	0	0	
100-391401 OPERATING TRANSFER IN - FUND	0	0	14,000	0	0	0	
100-392100 SALE OF FIXED ASSETS	36,951	15,350	0	0	0	0	
100-393500 CAPITAL LEASE ACQUISITION - 0	560,000	0	0	0	0	0	
100-393501 CAPITAL LEASE ACQUISITION - 0	0	0	0	0	0	0	
100-394100 CITY HALL BUILDING LOAN 2019	2,500,000	0	0	0	0	1,114,953	
TOTAL OTHER FINANCING SOURCES	3,546,805	332,771	1,514,243	0	0	1,432,374	
TOTAL REVENUES	13,213,067	10,203,875	11,682,748	0	0	11,811,949	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
LEGISLATIVE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
PERSONNEL SVCS & EMPL BEN							
100-5-1100-511101 SALARIES - REGULAR	28,400	27,600	28,800	0	0	28,800	
100-5-1100-512101 INSURANCE - GROUP	0	0	0	0	0	0	
100-5-1100-512201 P/R TAXES	2,173	2,111	2,258	0	0	2,203	
100-5-1100-512400 RETIREMENT - GMEBS	1,697	0	1,606	0	0	1,845	
100-5-1100-512700 WORKMENS COMP INS	211	211	0	0	0	0	
TOTAL PERSONNEL SVCS & EMPL BEN	32,480	29,922	32,664	0	0	32,848	
PURCHASED/CONTRACTED SVC							
100-5-1100-521101 ELECTIONS	0	0	0	0	0	2,000	
100-5-1100-521204 PROFESSIONAL SERVICES	0	0	0	0	0	0	
100-5-1100-523100 INSURANCE - GENERAL	33,971	32,629	32,000	0	0	32,000	
100-5-1100-523401 PRINTING	145	275	500	0	0	500	
100-5-1100-523501 TRAVEL	0	0	0	0	0	0	
100-5-1100-523502 HOTEL	0	0	0	0	0	0	
100-5-1100-523510 TRAVEL - COUNCIL MEMBE	3,134	1,102	5,000	0	0	5,000	
100-5-1100-523511 TRAVEL - COUNCIL MEMBE	3,412	2,133	5,000	0	0	5,000	
100-5-1100-523512 TRAVEL - COUNCIL MEMBE	4,420	1,351	5,000	0	0	5,000	
100-5-1100-523513 TRAVEL - COUNCIL MEMBE	926	1,017	5,000	0	0	5,000	
100-5-1100-523514 TRAVEL-COUNCIL MEMBER	0	(51)	5,000	0	0	5,000	
100-5-1100-523515 TRAVEL-COUNCIL MEMBER	6,883	4,682	5,000	0	0	5,000	
100-5-1100-523601 DUES & SUBSCRIPTIONS	2,000	2,437	3,000	0	0	3,000	
100-5-1100-523702 EDUCATION & TRAINING	0	0	0	0	0	0	
100-5-1100-523904 INAUGURATION	0	5,709	0	0	0	6,000	
TOTAL PURCHASED/CONTRACTED SVC	54,891	51,285	65,500	0	0	73,500	
MATERIALS & SUPPLIES							
100-5-1100-531101 OFFICE SUPPLIES	105	114	500	0	0	500	
100-5-1100-531270 GAS & OIL	0	0	0	0	0	0	
100-5-1100-531301 ENTERTAINMENT	0	768	3,000	0	0	6,700	
100-5-1100-531701 UNIFORMS	316	0	2,000	0	0	2,000	
100-5-1100-531702 MISCELLANEOUS	250	722	700	0	0	1,000	
TOTAL MATERIALS & SUPPLIES	671	1,605	6,200	0	0	10,200	
TOTAL LEGISLATIVE	88,042	82,812	104,364	0	0	116,548	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
EXECUTIVE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
PERSONNEL SVCS & EMPL BEN							
100-5-1300-511101 SALARIES - REGULAR	7,200	7,200	7,200	0	0	7,200	
100-5-1300-512101 INSURANCE - GROUP	0	0	0	0	0	0	
100-5-1300-512201 P/R TAXES	551	551	565	0	0	551	
100-5-1300-512400 RETIREMENT - GMEBS	381	0	360	0	0	308	
100-5-1300-512700 WORKMENS COMP INS	35	35	50	0	0	0	
TOTAL PERSONNEL SVCS & EMPL BEN	8,167	7,786	8,175	0	0	8,058	
PURCHASED/CONTRACTED SVC							
100-5-1300-521204 PROFESSIONAL SERVICES	0	0	250	0	0	250	
100-5-1300-523100 INSURANCE - GENERAL	5,682	12,079	5,500	0	0	5,500	
100-5-1300-523200 COMMUNICATIONS	3,171	5,374	8,400	0	0	5,640	
100-5-1300-523301 ADVERTISING	25,000	0	400	0	0	400	
100-5-1300-523401 PRINTING	0	0	100	0	0	100	
100-5-1300-523501 TRAVEL	0	268	2,000	0	0	2,000	
100-5-1300-523502 HOTEL	86	972	2,000	0	0	2,000	
100-5-1300-523601 DUES & SUBSCRIPTIONS	0	0	100	0	0	100	
100-5-1300-523702 EDUCATION & TRAINING	0	548	2,000	0	0	2,000	
TOTAL PURCHASED/CONTRACTED SVC	33,939	19,241	20,750	0	0	17,990	
MATERIALS & SUPPLIES							
100-5-1300-531101 OFFICE SUPPLIES	0	47	200	0	0	200	
100-5-1300-531270 GAS & OIL	0	101	0	0	0	0	
100-5-1300-531301 ENTERTAINMENT	38	136	1,500	0	0	1,500	
100-5-1300-531702 MISCELLANEOUS	(107)	999	1,000	0	0	11,250	
TOTAL MATERIALS & SUPPLIES	(69)	1,283	2,700	0	0	12,950	
TOTAL EXECUTIVE	42,037	28,310	31,625	0	0	38,998	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
ADMINISTRATION

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
PERSONNEL SVCS & EMPL BEN							
100-5-1500-511101 SALARIES - REGULAR	316,318	261,406	242,887	0	0	350,650	
100-5-1500-511102 C19 HR6201 PAID LEAVE	0	0	0	0	0	0	
100-5-1500-511300 OVERTIME	2,856	2,555	5,000	0	0	1,500	
100-5-1500-512001 UNEMPLOYMENT BENEFIT	3,950	0	0	0	0	0	
100-5-1500-512101 INSURANCE - GROUP	21,630	44,374	39,511	0	0	45,000	
100-5-1500-512201 P/R TAXES	23,907	20,595	18,964	0	0	26,825	
100-5-1500-512400 RETIREMENT - GMEBS	17,702	10,534	7,055	0	0	9,031	
100-5-1500-512401 DEFINED CONTRIBUTION -	0	0	0	0	0	9,922	
100-5-1500-512500 TUITION REIMBURSEMENTS	0	0	0	0	0	450,000	
100-5-1500-512700 WORKMENS COMP INS	981	915	996	0	0	1,686	
100-5-1500-512902 LONG & SHORT TERM DISA	3,920	2,605	12,282	0	0	12,282	
TOTAL PERSONNEL SVCS & EMPL BEN	391,264	342,984	326,695	0	0	906,895	
PURCHASED/CONTRACTED SVC							
100-5-1500-521102 TAX COLLECTION	20,852	21,000	21,500	0	0	22,650	
100-5-1500-521200 WELLNESS SERVICES	2,089	80	1,000	0	0	1,500	
100-5-1500-521201 MEDICAL SCREENING	1,326	447	1,800	0	0	1,800	
100-5-1500-521202 ACCOUNTING / AUDIT FEE	14,886	89,805	71,814	0	0	50,000	
100-5-1500-521204 PROFESSIONAL SERVICES	46,469	36,591	66,002	0	0	54,700	
100-5-1500-522201 VEHICLE REPAIRS & MAIN	0	0	400	0	0	400	
100-5-1500-522202 BUILDING MAINTENANCE	16,933	6,932	7,000	0	0	8,200	
100-5-1500-522203 EQUIPMENT REPAIRS & MA	0	597	4,000	0	0	1,000	
100-5-1500-522208 MAINTENANCE AGREEMENTS	24,973	27,237	32,000	0	0	34,070	
100-5-1500-522320 RENTAL OF EQUIP & VEHI	823	2,206	1,000	0	0	1,000	
100-5-1500-523100 INSURANCE - GENERAL	3,620	9,780	8,584	0	0	8,584	
100-5-1500-523200 COMMUNICATIONS	18,002	14,268	15,000	0	0	22,920	
100-5-1500-523301 ADVERTISING	50	725	6,000	0	0	5,000	
100-5-1500-523302 SPONSORSHIPS	0	25,000	0	0	0	0	
100-5-1500-523400 MUNICIPAL CODES	1,840	1,340	2,500	0	0	2,500	
100-5-1500-523401 PRINTING	2,319	3,340	5,000	0	0	5,000	
100-5-1500-523501 TRAVEL	368	178	1,500	0	0	1,500	
100-5-1500-523502 HOTEL	2,973	1,992	3,000	0	0	3,000	
100-5-1500-523601 DUES & SUBSCRIPTIONS	32,581	27,284	35,700	0	0	43,670	
100-5-1500-523702 EDUCATION & TRAINING	2,983	4,215	12,000	0	0	12,500	
100-5-1500-523850 CONTRACT LABOR	0	6,000	3,000	0	0	6,000	
100-5-1500-523852 CONTRACT SERVICES	10,015	12,906	9,863	0	0	6,863	
100-5-1500-523902 STAND UP FOR AMERICA D	0	40,954	97,000	0	0	100,000	
TOTAL PURCHASED/CONTRACTED SVC	203,103	332,876	405,663	0	0	392,857	
MATERIALS & SUPPLIES							
100-5-1500-531101 OFFICE SUPPLIES	13,266	8,138	9,000	0	0	8,000	
100-5-1500-531102 SUPPLIES	9,517	6,666	7,000	0	0	5,000	
100-5-1500-531121 POSTAGE	8,020	9,037	8,000	0	0	6,000	
100-5-1500-531220 NATURAL GAS	331	261	500	0	0	500	
100-5-1500-531230 ELECTRICITY	9,962	20,127	28,500	0	0	28,500	
100-5-1500-531270 GAS & OIL	285	210	500	0	0	500	
100-5-1500-531301 ENTERTAINMENT	19,536	9,595	10,000	0	0	9,500	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
ADMINISTRATION

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(DR WORKS
100-5-1500-531701 UNIFORMS	4,307	3,519	3,200	0	0	7,200	
100-5-1500-531702 MISCELLANEOUS	9,992	11,015	6,000	0	0	6,000	
100-5-1500-531703 CONTINGENCY FUNDS	113,685	27,150	0	0	0	800,000	
TOTAL MATERIALS & SUPPLIES	188,902	95,717	72,700	0	0	871,200	
CAPITAL OUTLAYS							
100-5-1500-541001 INFRASTRUCTURES	0	0	0	0	0	0	
100-5-1500-541300 BUILDINGS	2,148,698	401,289	21,134	0	0	0	
100-5-1500-542200 VEHICLES	0	0	0	0	0	0	
100-5-1500-542400 COMPUTERS	2,673	0	0	0	0	0	
100-5-1500-542500 OTHER EQUIPMENT	0	29,766	0	0	0	0	
TOTAL CAPITAL OUTLAYS	2,151,371	431,056	21,134	0	0	0	
OTHER COSTS							
100-5-1500-571006 VEHICLE REPLACEMENT	0	0	45,000	0	0	0	
100-5-1500-571007 EQUIPMENT REPLACEMENT	0	0	57,110	0	0	0	
100-5-1500-571008 INFRASTRUCTURE REPLACM	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	0	102,110	0	0	0	
DEBT SERVICE							
100-5-1500-581400 CITY HALL PRINCIPAL	18,403	223,687	267,351	0	0	235,308	
100-5-1500-582400 CITY HALL INTEREST	5,208	59,643	60,629	0	0	48,022	
TOTAL DEBT SERVICE	23,611	283,331	327,980	0	0	283,330	
TOTAL ADMINISTRATION	2,958,250	1,485,964	1,256,282	0	0	2,454,282	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
LAW

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
PURCHASED/CONTRACTED SVC							
100-5-1530-521204 PROFESSIONAL SERVICES	84,899	115,160	150,000	0	0	150,000	
TOTAL PURCHASED/CONTRACTED SVC	84,899	115,160	150,000	0	0	150,000	
TOTAL LAW	84,899	115,160	150,000	0	0	150,000	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
COURT

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
PERSONNEL SVCS & EMPL BEN							
100-5-2650-511101 SALARIES - REGULAR	76,958	83,904	80,539	0	0	84,617	
100-5-2650-511300 OVERTIME	1,098	1,926	2,000	0	0	3,000	
100-5-2650-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-2650-512101 INSURANCE - GROUP	17,685	8,841	16,355	0	0	16,764	
100-5-2650-512201 P/R TAXES	5,543	6,252	6,161	0	0	6,473	
100-5-2650-512400 RETIREMENT - GMEBS	4,800	4,567	4,068	0	0	5,247	
100-5-2650-512700 WORKMENS COMP INS	197	180	221	0	0	230	
100-5-2650-512902 LONG & SHORT TERM DISA	940	1,237	700	0	0	700	
TOTAL PERSONNEL SVCS & EMPL BEN	107,222	106,907	110,044	0	0	117,031	
PURCHASED/CONTRACTED SVC							
100-5-2650-521200 WELLNESS SERVICES	0	40	250	0	0	500	
100-5-2650-521201 MEDICAL SCREENING	0	0	300	0	0	300	
100-5-2650-521202 ACCOUNTING / AUDIT FEE	14,451	0	0	0	0	0	
100-5-2650-521203 INDIGENT CONTRACT	15,000	3,750	15,000	0	0	0	
100-5-2650-521204 PROFESSIONAL SERVICES	50,182	44,470	65,750	0	0	92,375	
100-5-2650-521302 COURT EXPENSES	0	0	0	0	0	0	
100-5-2650-522202 BUILDING MAINTENANCE	2,000	4,226	5,000	0	0	5,000	
100-5-2650-522208 MAINTENANCE AGREEMENTS	41,767	41,418	51,500	0	0	54,000	
100-5-2650-522320 RENTAL OF EQUIPMENT	0	0	1,360	0	0	1,360	
100-5-2650-523100 INSURANCE - GENERAL	448	551	320	0	0	320	
100-5-2650-523200 COMMUNICATIONS	630	(100)	0	0	0	2,530	
100-5-2650-523301 ADVERTISING	0	0	1,000	0	0	1,000	
100-5-2650-523501 TRAVEL	729	450	5,000	0	0	5,000	
100-5-2650-523502 HOTEL	664	769	4,000	0	0	4,000	
100-5-2650-523601 DUES & SUBSCRIPTIONS	483	372	1,500	0	0	1,500	
100-5-2650-523702 EDUCATION & TRAINING	550	775	4,000	0	0	4,000	
TOTAL PURCHASED/CONTRACTED SVC	126,904	96,720	154,980	0	0	171,885	
MATERIALS & SUPPLIES							
100-5-2650-531101 OFFICE SUPPLIES	554	897	1,000	0	0	3,000	
100-5-2650-531102 SUPPLIES	1,330	2,797	4,500	0	0	4,500	
100-5-2650-531121 POSTAGE	7	0	1,500	0	0	1,500	
100-5-2650-531701 UNIFORMS	235	250	900	0	0	900	
100-5-2650-531702 MISCELLANEOUS	673	18	750	0	0	750	
TOTAL MATERIALS & SUPPLIES	2,799	3,961	8,650	0	0	10,650	
CAPITAL OUTLAYS							
100-5-2650-541300 BUILDINGS	0	8,900	8,000	0	0	8,000	
100-5-2650-542200 VEHICLES	0	0	0	0	0	0	
100-5-2650-542400 COMPUTERS	0	0	0	0	0	0	
100-5-2650-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	0	8,900	8,000	0	0	8,000	
TOTAL COURT	236,924	216,489	281,674	0	0	307,566	

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CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
POLICE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
PERSONNEL SVCS & EMPL BEN							
100-5-3200-511101 SALARIES - REGULAR	1,598,632	1,818,200	2,148,681	0	0	2,876,602	
100-5-3200-511102 C19 HR6201 PAID LEAVE	0	177	0	0	0	0	
100-5-3200-511300 OVERTIME	91,738	110,464	135,000	0	0	135,000	
100-5-3200-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-3200-512101 INSURANCE - GROUP	282,851	279,047	521,901	0	0	568,809	
100-5-3200-512201 P/R TAXES	123,107	142,326	166,134	0	0	220,060	
100-5-3200-512400 RETIREMENT - GMEBS	73,576	104,554	109,704	0	0	129,471	
100-5-3200-512700 WORKMENS COMP INS	82,196	89,107	96,367	0	0	143,255	
100-5-3200-512902 LONG & SHORT TERM DISA	34,452	23,393	18,655	0	0	18,655	
TOTAL PERSONNEL SVCS & EMPL BEN	2,286,553	2,567,268	3,196,443	0	0	4,091,851	
PURCHASED/CONTRACTED SVC							
100-5-3200-521200 WELLNESS SERVICES	0	40	4,000	0	0	4,500	
100-5-3200-521201 MEDICAL SCREENING	2,676	2,874	4,000	0	0	4,500	
100-5-3200-521202 ACCOUNTING / AUDIT FEE	14,451	0	0	0	0	0	
100-5-3200-521204 PROFESSIONAL SERVICES	8,694	24,144	28,800	0	0	31,800	
100-5-3200-522201 VEHICLE REPAIRS & MAIN	72,610	49,914	35,000	0	0	70,000	
100-5-3200-522202 BUILDING MAINTENANCE	18,913	13,632	20,000	0	0	25,000	
100-5-3200-522203 EQUIPMENT REPAIRS & MA	13,485	7,477	11,350	0	0	12,000	
100-5-3200-522208 MAINTENANCE AGREEMENTS	48,474	68,651	92,740	0	0	132,740	
100-5-3200-522211 EQUIPMENT REPAIRS & MA	0	0	2,000	0	0	2,000	
100-5-3200-522320 RENTAL OF EQUIPMENT &	972	0	2,000	0	0	2,000	
100-5-3200-523100 INSURANCE - GENERAL	132,855	171,065	110,000	0	0	110,000	
100-5-3200-523200 COMMUNICATIONS	38,573	24,811	91,580	0	0	149,095	
100-5-3200-523301 ADVERTISING	36	0	700	0	0	700	
100-5-3200-523302 ADVERTISING - CODE ENF	0	0	500	0	0	500	
100-5-3200-523501 TRAVEL	11,713	4,600	10,000	0	0	13,000	
100-5-3200-523502 HOTEL	9,324	6,208	9,500	0	0	11,500	
100-5-3200-523503 TRAVEL - CODE ENFORCE(	223)	0	1,000	0	0	2,000	
100-5-3200-523504 HOTEL - CODE ENFORCEME	482	0	1,000	0	0	2,000	
100-5-3200-523601 DUES & SUBSCRIPTIONS	4,161	4,081	4,200	0	0	5,840	
100-5-3200-523702 EDUCATION & TRAINING	9,616	7,333	20,000	0	0	26,500	
100-5-3200-523703 EDUCATION & TRAINING -	410	686	700	0	0	1,400	
100-5-3200-523852 CONTRACT SERVICES - CO	0	0	8,000	0	0	43,000	
100-5-3200-523910 GRANT	39,872	11,496	26,867	0	0	0	
100-5-3200-523911 CROSSING GUARD	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	427,095	397,012	483,937	0	0	650,075	
MATERIALS & SUPPLIES							
100-5-3200-531101 OFFICE SUPPLIES	22,890	20,536	25,000	0	0	28,000	
100-5-3200-531102 SUPPLIES	96,123	73,444	91,000	0	0	95,700	
100-5-3200-531103 K-9 UNIT	609	371	3,000	0	0	3,000	
100-5-3200-531104 CRIMINAL INVESTIGATION	22,435	9,072	12,000	0	0	37,780	
100-5-3200-531121 POSTAGE	1,369	210	2,000	0	0	2,000	
100-5-3200-531122 POSTAGE - CODE ENFORCE	7	0	300	0	0	300	
100-5-3200-531123 OFFICE SUPPLIES - CODE	1,000	21	1,000	0	0	1,000	
100-5-3200-531124 SUPPLIES - CODE ENFORC	427	365	500	0	0	500	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
POLICE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
100-5-3200-531220 NATURAL GAS	1,051	959	2,500	0	0	2,500	
100-5-3200-531230 ELECTRICITY	8,253	7,836	21,000	0	0	21,000	
100-5-3200-531270 GAS & OIL	98,893	74,890	85,000	0	0	105,000	
100-5-3200-531301 ENTERTAINMENT	1,615	1,228	2,000	0	0	2,000	
100-5-3200-531701 UNIFORMS	34,352	23,292	35,000	0	0	57,000	
100-5-3200-531702 MISCELLANEOUS	4,278	6,966	7,000	0	0	11,300	
100-5-3200-531703 MISCELLANEOUS - CODE E	0	180	250	0	0	250	
TOTAL MATERIALS & SUPPLIES	293,300	219,369	287,550	0	0	367,330	
CAPITAL OUTLAYS							
100-5-3200-541300 BUILDINGS	0	0	0	0	0	0	
100-5-3200-542200 VEHICLES	637,329	225,688	252,028	0	0	503,600	
100-5-3200-542400 COMPUTERS	0	0	0	0	0	0	
100-5-3200-542500 OTHER EQUIPMENT	34,257	30,998	57,000	0	0	16,500	
TOTAL CAPITAL OUTLAYS	671,586	256,686	309,028	0	0	520,100	
OTHER COSTS							
100-5-3200-571006 VEHICLE REPLACEMENT	0	0	25,000	0	0	0	
100-5-3200-571007 EQUIPMENT REPLACEMENT	0	0	60,000	0	0	45,000	
100-5-3200-571008 INFRASTRUCTURE REPLACM	0	0	60,000	0	0	0	
TOTAL OTHER COSTS	0	0	145,000	0	0	45,000	
DEBT SERVICE							
100-5-3200-581200 '16 CAPITAL LEASE PRIN	135,942	0	0	0	0	0	
100-5-3200-581201 '17 CAPITAL LEASE PRIN	41,128	31,689	54,000	0	0	54,000	
100-5-3200-581202 19' CAPITAL LEASE PRIN	23,491	48,699	48,625	0	0	51,081	
100-5-3200-582200 '16 CAPITAL LEASE INTE	1,840	0	0	0	0	0	
100-5-3200-582201 '17 CAPITAL LEASE INTE	2,325	1,360	3,500	0	0	3,500	
100-5-3200-582202 '19 CAPITAL LEASE INTE	9,975	18,233	18,668	0	0	15,081	
TOTAL DEBT SERVICE	214,700	99,982	124,793	0	0	123,662	
TOTAL POLICE	3,893,234	3,540,317	4,546,751	0	0	5,798,019	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
FIRE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
PERSONNEL SVCS & EMPL BEN							
100-5-3500-511101 SALARIES - REGULAR	782,756	878,841	1,014,783	0	0	1,313,948	
100-5-3500-511102 C19 HR6201 PAID LEAVE	0	0	0	0	0	0	
100-5-3500-511300 OVERTIME	98,550	119,846	118,000	0	0	142,000	
100-5-3500-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-3500-512101 INSURANCE - GROUP	177,011	193,385	321,412	0	0	289,467	
100-5-3500-512201 P/R TAXES	64,401	73,261	77,631	0	0	100,517	
100-5-3500-512400 RETIREMENT - GMEBS	42,904	52,919	51,302	0	0	99,851	
100-5-3500-512402 VOLUNTEER RETIREMENT D	0	0	0	0	0	0	
100-5-3500-512700 WORKMENS COMP INS	17,373	21,808	27,314	0	0	36,265	
100-5-3500-512902 LONG & SHORT TERM DISA	15,720	10,360	5,000	0	0	10,000	
TOTAL PERSONNEL SVCS & EMPL BEN	1,198,715	1,350,422	1,615,442	0	0	1,992,047	
PURCHASED/CONTRACTED SVC							
100-5-3500-521200 WELLNESS SERVICES	1,295	425	1,460	0	0	2,300	
100-5-3500-521201 MEDICAL SCREENING	7,775	3,964	6,625	0	0	6,600	
100-5-3500-521202 ACCOUNTING / AUDIT FEE	13,620	0	0	0	0	0	
100-5-3500-521204 PROFESSIONAL SERVICES	1,961	1,879	3,750	0	0	2,000	
100-5-3500-522201 VEHICLE REPAIRS & MAIN	52,364	56,018	80,000	0	0	100,000	
100-5-3500-522202 BUILDING MAINTENANCE	16,064	11,684	37,000	0	0	82,792	
100-5-3500-522203 EQUIPMENT REPAIRS & MA	11,094	13,206	25,000	0	0	25,000	
100-5-3500-522208 MAINTENANCE AGREEMENTS	13,253	13,799	33,800	0	0	43,800	
100-5-3500-522320 RENTAL OF EQUIPMENT &	286	0	2,000	0	0	2,000	
100-5-3500-523100 INSURANCE - GENERAL	25,521	29,400	20,000	0	0	24,200	
100-5-3500-523200 COMMUNICATIONS	15,981	11,468	11,526	0	0	16,446	
100-5-3500-523301 ADVERTISING	0	0	250	0	0	250	
100-5-3500-523501 TRAVEL	4,538	1,130	6,000	0	0	6,000	
100-5-3500-523502 HOTEL	1,016	606	5,000	0	0	5,000	
100-5-3500-523601 DUES & SUBSCRIPTIONS	680	84	1,000	0	0	1,000	
100-5-3500-523702 EDUCATION & TRAINING	7,591	3,523	12,500	0	0	20,000	
100-5-3500-523850 CONTRACT LABOR	0	0	0	0	0	0	
100-5-3500-523914 ASSISTANCE TO FIREFIGH	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	173,039	147,186	245,911	0	0	337,388	
MATERIALS & SUPPLIES							
100-5-3500-531101 OFFICE SUPPLIES	6,888	6,321	8,000	0	0	8,000	
100-5-3500-531102 SUPPLIES	34,531	41,373	43,200	0	0	39,450	
100-5-3500-531105 FIRE INVESTIGATION	0	0	1,500	0	0	1,500	
100-5-3500-531121 POSTAGE	117	0	1,000	0	0	1,000	
100-5-3500-531220 NATURAL GAS	4,913	4,803	5,000	0	0	5,000	
100-5-3500-531230 ELECTRICITY	12,840	16,942	22,500	0	0	26,000	
100-5-3500-531270 GAS & OIL	22,949	16,376	29,000	0	0	45,000	
100-5-3500-531301 ENTERTAINMENT	155	851	3,000	0	0	3,000	
100-5-3500-531701 UNIFORMS	34,592	32,067	38,500	0	0	59,270	
100-5-3500-531702 MISCELLANEOUS	2,200	1,019	3,000	0	0	3,000	
TOTAL MATERIALS & SUPPLIES	119,186	119,752	154,700	0	0	191,220	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
FIRE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(DR WORKS!
CAPITAL OUTLAYS							
100-5-3500-541300 BUILDINGS	0	7,250	0	0	0	0	
100-5-3500-542200 VEHICLES	32,381	0	0	0	0	50,000	
100-5-3500-542400 COMPUTERS	0	0	0	0	0	3,400	
100-5-3500-542500 OTHER EQUIPMENT	8,884	6,210	50,300	0	0	55,205	
TOTAL CAPITAL OUTLAYS	41,265	13,460	50,300	0	0	108,605	
OTHER COSTS							
100-5-3500-571006 VEHICLE REPLACEMENT	0	0	0	0	0	0	
100-5-3500-571007 EQUIPMENT REPLACEMENT	0	0	11,880	0	0	10,300	
100-5-3500-571008 INFRASTRUCTURE REPLACM	0	0	50,000	0	0	0	
TOTAL OTHER COSTS	0	0	61,880	0	0	10,300	
DEBT SERVICE							
100-5-3500-581200 '16 CAPITAL LEASE PRIN	13,594	0	0	0	0	0	
100-5-3500-581201 '17 CAPITAL LEASE PRIN	153,931	102,359	102,780	0	0	102,780	
100-5-3500-582200 '16 CAPITAL LEASE INTE	184	0	0	0	0	0	
100-5-3500-582201 '17 CAPITAL LEASE INTE	29,594	25,640	25,220	0	0	25,220	
TOTAL DEBT SERVICE	197,303	127,999	128,000	0	0	128,000	
TOTAL FIRE	1,729,508	1,758,818	2,256,233	0	0	2,767,560	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
EMA

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP BUD DR WORKS
PERSONNEL SVCS & EMPL BEN							
100-5-3920-511101 SALARIES - REGULAR	0	0	0	0	0	0	
100-5-3920-511300 OVERTIME	0	0	0	0	0	0	
100-5-3920-512101 INSURANCE - GROUP	0	0	0	0	0	0	
100-5-3920-512201 P/R TAXES	0	0	0	0	0	0	
100-5-3920-512400 RETIREMENT - GMEBS	0	0	0	0	0	0	
100-5-3920-512700 WORKERS COMP INS	0	0	0	0	0	0	
100-5-3920-512902 LONG & SHORT TERM DISA	0	0	0	0	0	0	
TOTAL PERSONNEL SVCS & EMPL BEN	0	0	0	0	0	0	
PURCHASED/CONTRACTED SVC							
100-5-3920-521200 WELLNESS SERVICES	0	0	0	0	0	0	
100-5-3920-521201 MEDICAL SCREENING	0	0	0	0	0	0	
100-5-3920-521202 ACCOUNTING/AUDIT FEE	0	0	0	0	0	0	
100-5-3920-521204 PROFESSIONAL SERVICES	0	23,984	15,000	0	0	15,000	
100-5-3920-522201 VEHICLE REPAIRS & MAIN	2,588	0	10,000	0	0	10,000	
100-5-3920-522202 BUILDING MAINTENANCE	0	0	0	0	0	0	
100-5-3920-522203 EQUIPMENT REPAIRS & MA	0	0	9,000	0	0	9,000	
100-5-3920-522208 MAINTENANCE AGREEMENTS	0	0	0	0	0	0	
100-5-3920-522320 RENTAL OF EQUIPMENT	11,598	3,919	11,598	0	0	10,000	
100-5-3920-523100 INSURANCE - GENERAL	0	0	0	0	0	0	
100-5-3920-523200 COMMUNICATIONS	0	424	7,280	0	0	8,980	
100-5-3920-523301 ADVERTISING	0	0	0	0	0	0	
100-5-3920-523501 TRAVEL	3,236	3,805	5,000	0	0	5,000	
100-5-3920-523502 HOTEL	2,481	559	5,000	0	0	5,000	
100-5-3920-523601 DUES & SUBSCRIPTIONS	0	0	0	0	0	0	
100-5-3920-523702 EDUCATION & TRAINING	7,000	249	7,000	0	0	7,000	
100-5-3920-523852 CONTRACT SERVICES	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	26,903	32,940	69,878	0	0	69,980	
MATERIALS & SUPPLIES							
100-5-3920-531101 OFFICE SUPPLIES	0	0	0	0	0	0	
100-5-3920-531102 SUPPLIES	46,949	22,028	32,720	0	0	32,618	
100-5-3920-531121 POSTAGE	0	0	0	0	0	0	
100-5-3920-531220 NATURAL GAS	0	0	0	0	0	0	
100-5-3920-531230 ELECTRICITY	0	0	0	0	0	0	
100-5-3920-531270 GAS & OIL	43	1,745	12,000	0	0	12,000	
100-5-3920-531701 UNIFORMS	0	0	0	0	0	0	
100-5-3920-531702 MISCELLANEOUS	0	1,979	3,000	0	0	3,000	
TOTAL MATERIALS & SUPPLIES	46,992	25,752	47,720	0	0	47,618	
CAPITAL OUTLAYS							
100-5-3920-542200 VEHICLES	0	0	0	0	0	0	
100-5-3920-542400 COMPUTERS	0	0	0	0	0	0	
100-5-3920-542500 OTHER EQUIPMENT	20,000	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	20,000	0	0	0	0	0	
TOTAL EMA	93,896	58,692	117,598	0	0	117,598	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
STREET MAINTENANCE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP BUD DR WORKS
PERSONNEL SVCS & EMPL BEN							
100-5-4200-511101 SALARIES - REGULAR	614	0	0	0	0	0	
100-5-4200-511300 OVERTIME	0	0	0	0	0	0	
100-5-4200-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-4200-512101 INSURANCE - GROUP	(587)	0	0	0	0	0	
100-5-4200-512201 P/R TAXES	45	0	0	0	0	0	
100-5-4200-512400 RETIREMENT - GMEBS	2,526	0	0	0	0	0	
100-5-4200-512700 WORKMENS COMP INS	4,926	3,459	3,943	0	0	3,943	
100-5-4200-512902 LONG & SHORT TERM DIS	(29)	0	0	0	0	0	
TOTAL PERSONNEL SVCS & EMPL BEN	7,495	3,459	3,943	0	0	3,943	
PURCHASED/CONTRACTED SVC							
100-5-4200-521200 WELLNESS SERVICES	0	0	0	0	0	0	
100-5-4200-521201 MEDICAL SCREENING	0	0	0	0	0	0	
100-5-4200-521202 ACCOUNTING / AUDIT FEE	14,451	0	0	0	0	0	
100-5-4200-521204 PROFESSIONAL SERVICES	7,357	16,139	40,000	0	0	40,000	
100-5-4200-522201 VEHICLE REPAIRS & MAIN	1,332	0	0	0	0	0	
100-5-4200-522202 BUILDING MAINTENANCE	0	0	0	0	0	0	
100-5-4200-522203 EQUIPMENT REPAIRS & MA	7,081	0	0	0	0	0	
100-5-4200-522204 STREET REPAIRS & MAINT	176,959	78,841	170,000	0	0	170,000	
100-5-4200-522208 MAINTENANCE AGREEMENTS	10,578	10,014	0	0	0	0	
100-5-4200-522320 RENTAL OF EQUIPMENT &	86	0	0	0	0	0	
100-5-4200-523100 INSURANCE - GENERAL	9,441	7,238	5,200	0	0	5,200	
100-5-4200-523200 COMMUNICATIONS	2,678	(100)	200	0	0	200	
100-5-4200-523301 ADVERTISING	0	0	0	0	0	0	
100-5-4200-523401 PRINTING	354	0	0	0	0	0	
100-5-4200-523501 TRAVEL	0	0	0	0	0	0	
100-5-4200-523502 HOTEL	0	0	0	0	0	0	
100-5-4200-523601 DUES & SUBSCRIPTIONS	180	0	0	0	0	0	
100-5-4200-523702 EDUCATION & TRAINING	0	0	0	0	0	0	
100-5-4200-523850 CONTRACT LABOR	0	0	0	0	0	0	
100-5-4200-523851 TREE SERVICE	14,700	8,800	15,000	0	0	15,000	
100-5-4200-523909 DUMP FEES	2,971	818	500	0	0	500	
TOTAL PURCHASED/CONTRACTED SVC	248,167	121,750	230,900	0	0	230,900	
MATERIALS & SUPPLIES							
100-5-4200-531101 OFFICE SUPPLIES	0	29	100	0	0	100	
100-5-4200-531102 SUPPLIES	0	0	300	0	0	300	
100-5-4200-531107 TOOLS	0	0	0	0	0	0	
100-5-4200-531108 STREET PAVING MATERIAL	3,266	(820)	30,000	0	0	30,000	
100-5-4200-531109 STREET SIGNS/POSTS	0	0	2,000	0	0	2,000	
100-5-4200-531121 POSTAGE	3	0	900	0	0	900	
100-5-4200-531220 NATURAL GAS	672	680	0	0	0	0	
100-5-4200-531230 ELECTRICITY	132,153	144,776	160,000	0	0	160,000	
100-5-4200-531270 GAS & OIL	0	0	0	0	0	0	
100-5-4200-531301 ENTERTAINMENT	0	0	0	0	0	0	
100-5-4200-531701 UNIFORMS	0	0	0	0	0	0	
100-5-4200-531702 MISCELLANEOUS	6	0	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	136,100	144,665	193,300	0	0	193,300	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
STREET MAINTENANCE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(DR WORKS!
CAPITAL OUTLAYS							
100-5-4200-541001 INFRASTRUCTURES	6,108	28,451	0	0	0	0	
100-5-4200-541300 BUILDINGS	0	0	0	0	0	0	
100-5-4200-541400 ROAD PROJECTS - LMIG	0	0	105,000	0	0	105,000	
100-5-4200-542100 HEAVY EQUIPMENT	0	0	0	0	0	0	
100-5-4200-542200 VEHICLES	0	0	0	0	0	0	
100-5-4200-542400 COMPUTERS	0	0	0	0	0	0	
100-5-4200-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	6,108	28,451	105,000	0	0	105,000	
OTHER COSTS							
100-5-4200-571006 VEHICLE REPLACEMENT	0	0	0	0	0	0	
100-5-4200-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
100-5-4200-571008 INFRASTRUCTURE REPLACM	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	0	0	0	0	0	
DEBT SERVICE							
100-5-4200-581200 '17 CAPITAL LEASE PRIN	598	461	525	0	0	525	
100-5-4200-582200 '17 CAPITAL LEASE INTE	34	20	25	0	0	25	
TOTAL DEBT SERVICE	632	481	550	0	0	550	
TOTAL STREET MAINTENANCE	398,502	298,806	533,693	0	0	533,693	

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CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
STORMWATER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(DR WORKS!
PERSONNEL SVCS & EMPL BEN							
100-5-4250-511101 SALARIES - REGULAR	1,318	0	0	0	0	0	
100-5-4250-511300 OVERTIME	0	0	0	0	0	0	
100-5-4250-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-4250-512101 INSURANCE - GROUP	(3,292)	0	0	0	0	0	
100-5-4250-512201 P/R TAXES	99	0	0	0	0	0	
100-5-4250-512400 RETIREMENT - GMEBS	5,724	0	0	0	0	0	
100-5-4250-512700 WORKMENS COMP INS	10	0	0	0	0	0	
100-5-4250-512902 LONG & SHORT TERM DIS	(183)	0	0	0	0	0	
TOTAL PERSONNEL SVCS & EMPL BEN	3,676	0	0	0	0	0	
PURCHASED/CONTRACTED SVC							
100-5-4250-521200 WELLNESS SERVICES	0	0	0	0	0	0	
100-5-4250-521201 MEDICAL SCREENING	0	0	0	0	0	0	
100-5-4250-521202 ACCOUNTING / AUDIT FEE	14,451	0	0	0	0	0	
100-5-4250-521204 PROFESSIONAL SERVICES	35,416	83,444	50,000	0	0	50,000	
100-5-4250-522201 VEHICLE REPAIRS & MAIN	649	0	0	0	0	0	
100-5-4250-522202 BUILDING MAINTENANCE	0	0	0	0	0	0	
100-5-4250-522203 EQUIPMENT REPAIRS & MA	0	0	0	0	0	0	
100-5-4250-522208 MAINTENANCE AGREEMENTS	5,782	4,325	5,000	0	0	5,000	
100-5-4250-522320 RENTAL OF EQUIPMENT &	86	0	0	0	0	0	
100-5-4250-523100 INSURANCE - GENERAL	1,837	2,378	1,500	0	0	1,500	
100-5-4250-523200 COMMUNICATIONS	2,678	(100)	0	0	0	0	
100-5-4250-523301 ADVERTISING	0	0	300	0	0	300	
100-5-4250-523401 PRINTING	354	0	0	0	0	0	
100-5-4250-523501 TRAVEL	0	0	0	0	0	0	
100-5-4250-523502 HOTEL	0	0	0	0	0	0	
100-5-4250-523601 DUES & SUBSCRIPTIONS	0	0	0	0	0	0	
100-5-4250-523702 EDUCATION & TRAINING	0	0	0	0	0	0	
100-5-4250-523850 CONTRACT LABOR	0	0	0	0	0	0	
100-5-4250-523909 DUMP FEES	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	61,253	90,047	56,800	0	0	56,800	
MATERIALS & SUPPLIES							
100-5-4250-531101 OFFICE SUPPLIES	297	29	100	0	0	100	
100-5-4250-531102 SUPPLIES	1,289	0	1,000	0	0	1,000	
100-5-4250-531107 TOOLS	0	0	0	0	0	0	
100-5-4250-531121 POSTAGE	0	0	0	0	0	0	
100-5-4250-531220 NATURAL GAS	672	680	400	0	0	400	
100-5-4250-531230 ELECTRICITY	1,045	1,478	1,400	0	0	1,400	
100-5-4250-531270 GAS & OIL	0	0	0	0	0	0	
100-5-4250-531301 ENTERTAINMENT	0	0	0	0	0	0	
100-5-4250-531701 UNIFORMS	0	0	0	0	0	0	
100-5-4250-531702 MISCELLANEOUS	0	0	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	3,303	2,187	2,900	0	0	2,900	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
STORMWATER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
CAPITAL OUTLAYS							
100-5-4250-541001 INFRASTRUCTURES	0	0	20,000	0	0	20,000	
100-5-4250-541300 BUILDINGS	0	0	0	0	0	0	
100-5-4250-542100 HEAVY EQUIPMENT	0	0	0	0	0	0	
100-5-4250-542200 VEHICLES	0	0	0	0	0	0	
100-5-4250-542400 COMPUTERS	0	0	0	0	0	0	
100-5-4250-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	0	0	20,000	0	0	20,000	
OTHER COSTS							
100-5-4250-571006 VEHICLE REPLACEMENT	0	0	0	0	0	0	
100-5-4250-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
100-5-4250-571008 INFRASTRUCTURE REPLACM	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	0	0	0	0	0	
DEBT SERVICE							
100-5-4250-581200 '17 CAPITAL LEASE PRIN	473	364	0	0	0	0	
100-5-4250-582200 '17 CAPITAL LEASE INTE	27	16	0	0	0	0	
TOTAL DEBT SERVICE	500	380	0	0	0	0	
TOTAL STORMWATER	68,731	92,614	79,700	0	0	79,700	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
SOLID WASTE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP BUD DR WORKS
PERSONNEL SVCS & EMPL BEN							
100-5-4500-511101 SALARIES - REGULAR	1,817	0	0	0	0	0	
100-5-4500-511300 OVERTIME	0	0	0	0	0	0	
100-5-4500-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-4500-512101 INSURANCE - GROUP	(587)	0	0	0	0	0	
100-5-4500-512201 P/R TAXES	131	0	0	0	0	0	
100-5-4500-512400 RETIREMENT - GMEBS	2,827	0	0	0	0	0	
100-5-4500-512700 WORKMENS COMP INS	1,168	610	0	0	0	0	
100-5-4500-512902 LONG & SHORT TERM DIS	(29)	0	0	0	0	0	
TOTAL PERSONNEL SVCS & EMPL BEN	5,327	610	0	0	0	0	
PURCHASED/CONTRACTED SVC							
100-5-4500-521200 WELLNESS SERVICES	0	0	0	0	0	0	
100-5-4500-521201 MEDICAL SCREENING	0	0	0	0	0	0	
100-5-4500-521202 ACCOUNTING / AUDIT FEE	12,633	0	0	0	0	0	
100-5-4500-521204 PROFESSIONAL SERVICES	1,504	1,442	0	0	0	0	
100-5-4500-522201 VEHICLE REPAIRS & MAIN	0	0	0	0	0	0	
100-5-4500-522202 BUILDING MAINTENANCE	0	0	0	0	0	0	
100-5-4500-522203 EQUIPMENT REPAIRS & MA	0	0	0	0	0	0	
100-5-4500-522208 MAINTENANCE AGREEMENTS	5,782	4,325	0	0	0	0	
100-5-4500-522320 RENTAL OF EQUIPMENT &	86	0	0	0	0	0	
100-5-4500-523100 INSURANCE - GENERAL	3,079	3,513	0	0	0	0	
100-5-4500-523200 COMMUNICATIONS	2,678	(100)	0	0	0	0	
100-5-4500-523301 ADVERTISING	0	0	0	0	0	0	
100-5-4500-523401 PRINTING	9,706	0	0	0	0	0	
100-5-4500-523501 TRAVEL	0	0	0	0	0	0	
100-5-4500-523502 HOTEL	0	0	0	0	0	0	
100-5-4500-523601 DUES & SUBSCRIPTIONS	0	0	0	0	0	0	
100-5-4500-523702 EDUCATION & TRAINING	0	0	0	0	0	0	
100-5-4500-523850 CONTRACT LABOR	0	0	0	0	0	0	
100-5-4500-523852 CONTRACT SERVICES	793,434	846,385	800,000	0	0	800,000	
100-5-4500-523909 DUMP FEES	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	828,902	855,564	800,000	0	0	800,000	
MATERIALS & SUPPLIES							
100-5-4500-531101 OFFICE SUPPLIES	1,114	36	50	0	0	50	
100-5-4500-531102 SUPPLIES	0	0	0	0	0	0	
100-5-4500-531107 TOOLS	0	0	0	0	0	0	
100-5-4500-531110 CART REPAIR PARTS	0	0	0	0	0	0	
100-5-4500-531121 POSTAGE	5,168	4,809	3,000	0	0	3,000	
100-5-4500-531220 NATURAL GAS	672	680	500	0	0	500	
100-5-4500-531230 ELECTRICITY	1,045	(522)	1,300	0	0	1,300	
100-5-4500-531270 GAS & OIL	0	0	0	0	0	0	
100-5-4500-531701 UNIFORMS	0	0	0	0	0	0	
100-5-4500-531702 MISCELLANEOUS	0	0	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	8,001	5,004	4,850	0	0	4,850	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
SOLID WASTE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(WORKS
CAPITAL OUTLAYS							
100-5-4500-541001 INFRASTRUCTURES	0	0	0	0	0	0	
100-5-4500-541300 BUILDINGS	0	0	0	0	0	0	
100-5-4500-542100 HEAVY EQUIPMENT	0	0	0	0	0	0	
100-5-4500-542200 VEHICLES	0	0	0	0	0	0	
100-5-4500-542400 COMPUTERS	0	0	0	0	0	0	
100-5-4500-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	0	0	0	0	0	0	
OTHER COSTS							
100-5-4500-571006 VEHICLE REPLACEMENT	0	0	0	0	0	0	
100-5-4500-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
100-5-4500-571008 INFRASTRUCTURE REPLACM	0	0	0	0	0	0	
100-5-4500-574000 BAD DEBTS	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	0	0	0	0	0	
DEBT SERVICE							
100-5-4500-581200 '17 CAPITAL LEASE PRIN	473	364	0	0	0	0	
100-5-4500-582200 '17 CAPITAL LEASE INTE	27	16	0	0	0	0	
TOTAL DEBT SERVICE	500	380	0	0	0	0	
TOTAL SOLID WASTE	842,729	861,558	804,850	0	0	804,850	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
LEISURE SERVICES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
PERSONNEL SVCS & EMPL BEN							
100-5-6100-511101 SALARIES - REGULAR	195,608	195,864	234,379	0	0	273,093	
100-5-6100-511300 OVERTIME	1,444	3,006	7,650	0	0	7,650	
100-5-6100-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-6100-512101 INSURANCE - GROUP	29,129	31,637	33,034	0	0	33,860	
100-5-6100-512201 P/R TAXES	14,220	14,407	17,930	0	0	20,892	
100-5-6100-512400 RETIREMENT - GMEBS	9,856	10,980	8,955	0	0	16,201	
100-5-6100-512700 WORKMENS COMP INS	3,756	4,201	4,572	0	0	5,953	
100-5-6100-512902 LONG & SHORT TERM DISA	2,484	2,432	2,100	0	0	2,100	
TOTAL PERSONNEL SVCS & EMPL BEN	256,497	262,527	308,620	0	0	359,748	
PURCHASED/CONTRACTED SVC							
100-5-6100-521200 WELLNESS SERVICES	0	40	1,400	0	0	2,100	
100-5-6100-521201 MEDICAL SCREENING	560	570	1,480	0	0	1,480	
100-5-6100-521202 ACCOUNTING / AUDIT FEE	14,452	0	0	0	0	0	
100-5-6100-521204 PROFESSIONAL SERVICES	3,743	16,664	25,791	0	0	20,195	
100-5-6100-521303 GAME OFFICIALS	4,405	3,521	9,440	0	0	8,190	
100-5-6100-522201 VEHICLE REPAIRS & MAIN	6,598	1,650	10,000	0	0	7,900	
100-5-6100-522202 BUILDING MAINTENANCE	33,727	31,587	49,300	0	0	39,000	
100-5-6100-522203 EQUIPMENT REPAIRS & MA	4,604	4,082	10,700	0	0	10,700	
100-5-6100-522208 MAINTENANCE AGREEMENTS	14,363	16,535	18,820	0	0	30,760	
100-5-6100-522320 RENTAL OF EQUIPMENT &	6,206	7,265	6,150	0	0	6,150	
100-5-6100-523100 INSURANCE - GENERAL	12,918	14,210	22,518	0	0	22,518	
100-5-6100-523200 COMMUNICATIONS	10,589	4,229	17,160	0	0	23,160	
100-5-6100-523301 ADVERTISING	3,426	5,641	7,820	0	0	10,260	
100-5-6100-523401 PRINTING	3,594	3,126	5,500	0	0	7,500	
100-5-6100-523501 TRAVEL	2,311	1,393	3,440	0	0	4,840	
100-5-6100-523502 HOTEL	1,127	1,182	4,900	0	0	4,900	
100-5-6100-523601 DUES & SUBSCRIPTIONS	1,986	3,946	4,750	0	0	5,250	
100-5-6100-523702 EDUCATION & TRAINING	1,552	3,259	4,460	0	0	3,685	
100-5-6100-523850 CONTRACT LABOR	600	0	0	0	0	0	
100-5-6100-523902 STAND UP FOR AMERICA D	109,501	150	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	236,262	119,050	203,629	0	0	208,588	
MATERIALS & SUPPLIES							
100-5-6100-531101 OFFICE SUPPLIES	5,854	3,547	7,600	0	0	7,600	
100-5-6100-531102 SUPPLIES	30,738	25,329	35,775	0	0	29,275	
100-5-6100-531107 TOOLS	11,043	6,808	10,100	0	0	9,000	
100-5-6100-531111 AEROBICS & WEIGHT ROOM	0	0	0	0	0	0	
100-5-6100-531112 FOOTBALL	4,813	4,591	3,320	0	0	7,820	
100-5-6100-531113 LEISURE PROGRAMS	14,636	11,870	13,300	0	0	19,100	
100-5-6100-531114 BASEBALL/SOFTBALL	6,509	2,963	4,325	0	0	4,325	
100-5-6100-531115 BASKETBALL	1,776	4,132	4,710	0	0	5,000	
100-5-6100-531116 SOCCER	2,478	3,395	6,300	0	0	7,200	
100-5-6100-531117 CHEERLEADING	811	1,260	0	0	0	2,100	
100-5-6100-531118 SENIOR CITIZENS	34,264	30,743	36,000	0	0	45,000	
100-5-6100-531119 CONCESSIONS	2,534	1,328	3,550	0	0	2,950	
100-5-6100-531120 SUMMER CAMPS	12,155	5,168	2,200	0	0	8,500	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
LEISURE SERVICES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(DR WORKS
100-5-6100-531121 POSTAGE	25	435	1,500	0	0	1,500	
100-5-6100-531122 TUMBLING	1,803	1,255	1,750	0	0	2,100	
100-5-6100-531123 SENIOR CITIZENS SUPPLI	6,447	5,434	8,300	0	0	8,000	
100-5-6100-531125 DANCE	0	1,463	400	0	0	4,400	
100-5-6100-531126 WRESTLING	655	0	0	0	0	1,000	
100-5-6100-531220 NATURAL GAS	4,935	5,020	4,500	0	0	4,500	
100-5-6100-531230 ELECTRICITY	25,294	28,469	40,000	0	0	40,000	
100-5-6100-531270 GAS & OIL	6,144	7,087	6,900	0	0	6,900	
100-5-6100-531301 ENTERTAINMENT	0	1,278	2,500	0	0	2,500	
100-5-6100-531701 UNIFORMS	3,261	3,282	5,300	0	0	5,680	
100-5-6100-531702 MISCELLANEOUS	2,409	505	3,000	0	0	3,300	
TOTAL MATERIALS & SUPPLIES	178,587	155,360	201,330	0	0	227,750	
CAPITAL OUTLAYS							
100-5-6100-541001 INFRASTRUCTURES	0	0	0	0	0	200,000	
100-5-6100-541300 BUILDINGS	7,778	0	0	0	0	69,000	
100-5-6100-542200 VEHICLES	0	0	20,000	0	0	40,000	
100-5-6100-542400 COMPUTERS	0	0	0	0	0	0	
100-5-6100-542500 OTHER EQUIPMENT	0	9,774	0	0	0	9,000	
TOTAL CAPITAL OUTLAYS	7,778	9,774	20,000	0	0	318,000	
OTHER COSTS							
100-5-6100-571006 VEHICLE REPLACEMENT	0	0	15,000	0	0	0	
100-5-6100-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
100-5-6100-571008 INFRASTRUCTURE REPLACM	0	8,619	2,980	0	0	0	
TOTAL OTHER COSTS	0	8,619	17,980	0	0	0	
TOTAL LEISURE SERVICES	679,124	555,331	751,559	0	0	1,114,086	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
DEVELOPMENT SERVICES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
PERSONNEL SVCS & EMPL BEN							
100-5-7200-511101 SALARIES - REGULAR	167,366	175,224	210,169	0	0	272,398	
100-5-7200-511102 C19 HR6201 PAID LEAVE	0	0	0	0	0	0	
100-5-7200-511300 OVERTIME	932	319	1,000	0	0	1,000	
100-5-7200-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
100-5-7200-512101 INSURANCE - GROUP	42,123	43,352	72,868	0	0	80,334	
100-5-7200-512201 P/R TAXES	12,227	13,061	16,078	0	0	20,838	
100-5-7200-512400 RETIREMENT - GMEBS	6,876	11,058	10,617	0	0	22,337	
100-5-7200-512700 WORKMENS COMP INS	3,254	3,345	3,948	0	0	6,429	
100-5-7200-512902 LONG & SHORT TERM DISA	4,161	2,694	2,200	0	0	2,200	
TOTAL PERSONNEL SVCS & EMPL BEN	236,940	249,052	316,880	0	0	405,535	
PURCHASED/CONTRACTED SVC							
100-5-7200-521200 WELLNESS SERVICES	0	80	1,000	0	0	1,000	
100-5-7200-521201 MEDICAL SCREENING	0	291	385	0	0	385	
100-5-7200-521202 ACCOUNTING / AUDIT FEE	14,451	0	0	0	0	0	
100-5-7200-521204 PROFESSIONAL SERVICES	89,073	69,568	110,000	0	0	125,000	
100-5-7200-522201 VEHICLE REPAIRS & MAIN	130	361	1,825	0	0	2,300	
100-5-7200-522202 BUILDING MAINTENANCE	2,253	1,151	2,025	0	0	2,500	
100-5-7200-522203 EQUIPMENT REPAIRS & MA	0	52	300	0	0	300	
100-5-7200-522208 MAINTENANCE AGREEMENTS	8,819	9,116	11,000	0	0	11,000	
100-5-7200-522320 RENTAL OF EQUIPMENT	406	0	1,350	0	0	400	
100-5-7200-522321 RENTAL OF OFFICE SPACE	19,649	21,528	25,000	0	0	50,000	
100-5-7200-523100 INSURANCE - GENERAL	5,187	6,447	6,000	0	0	6,000	
100-5-7200-523200 COMMUNICATIONS	7,776	4,424	8,100	0	0	8,100	
100-5-7200-523301 ADVERTISING	499	550	950	0	0	950	
100-5-7200-523400 MUNICIPAL CODES	787	1,246	1,000	0	0	1,000	
100-5-7200-523401 PRINTING	384	456	1,000	0	0	1,000	
100-5-7200-523501 TRAVEL	1,620	105	2,000	0	0	2,000	
100-5-7200-523502 HOTEL	2,095	853	3,000	0	0	3,000	
100-5-7200-523601 DUES & SUBSCRIPTIONS	3,245	3,368	4,500	0	0	4,500	
100-5-7200-523702 EDUCATION & TRAINING	4,240	1,041	5,000	0	0	5,000	
100-5-7200-523850 CONTRACT LABOR	250,069	0	217,310	0	0	217,310	
TOTAL PURCHASED/CONTRACTED SVC	410,683	120,638	401,745	0	0	441,745	
MATERIALS & SUPPLIES							
100-5-7200-531101 OFFICE SUPPLIES	3,257	5,635	6,500	0	0	7,500	
100-5-7200-531102 SUPPLIES	2,206	2,641	5,000	0	0	6,000	
100-5-7200-531121 POSTAGE	38	11	825	0	0	825	
100-5-7200-531220 NATURAL GAS	331	339	370	0	0	370	
100-5-7200-531230 ELECTRICITY	3,518	4,628	6,600	0	0	6,600	
100-5-7200-531270 GAS & OIL	2,200	3,010	3,500	0	0	5,000	
100-5-7200-531701 UNIFORMS	734	537	1,000	0	0	1,500	
100-5-7200-531702 MISCELLANEOUS	7,745	653	1,000	0	0	10,000	
TOTAL MATERIALS & SUPPLIES	20,027	17,455	24,795	0	0	37,795	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
DEVELOPMENT SERVICES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
CAPITAL OUTLAYS							
100-5-7200-541300 BUILDINGS	3,749	0	0	0	0	0	
100-5-7200-542200 VEHICLES	0	0	25,000	0	0	25,000	
100-5-7200-542400 COMPUTERS	2,144	0	0	0	0	1,500	
100-5-7200-542500 OTHER EQUIPMENT	3,856	223,560	0	0	0	1,500	
TOTAL CAPITAL OUTLAYS	9,749	223,560	25,000	0	0	28,000	
DEPRECIATION							
100-5-7200-561000 DEPRECIATION	0	0	0	0	0	0	
TOTAL DEPRECIATION	0	0	0	0	0	0	
OTHER COSTS							
100-5-7200-571006 ASSET REPLACEMENT	0	0	0	0	0	0	
100-5-7200-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
100-5-7200-571008 INFRASTRUCTURE REPLACM	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	0	0	0	0	0	
DEBT SERVICE							
100-5-7200-581200 '17 CAPITAL LEASE PRIN	7,096	5,467	0	0	0	0	
100-5-7200-582200 '17 CAPITAL LEASE INTE	401	235	0	0	0	0	
TOTAL DEBT SERVICE	7,497	5,702	0	0	0	0	
TOTAL DEVELOPMENT SERVICES	684,897	616,408	768,420	0	0	913,075	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
ECONOMIC DEVELOPMENT

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
PURCHASED/CONTRACTED SVC							
100-5-7500-521204 PROFESSIONAL SERVICES	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	0	0	0	0	0	0	
OTHER COSTS							
100-5-7500-573000 LOAN GUARANTEE PROGRAM	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	0	0	0	0	0	
TOTAL ECONOMIC DEVELOPMENT	0	0	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

100-GENERAL FUND
OTHER FINANCING USES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
OTHER FINANCING USES							
100-5-9000-611002 OPER TRANSFER OUT-W&S	0	0	0	0	0	0	
100-5-9000-611003 OPER TRANSFER OUT - DI	0	0	0	0	0	0	
100-5-9000-611004 OPER TRANS OUT-CONF. A	0	0	0	0	0	0	
TOTAL OTHER FINANCING USES	0	0	0	0	0	0	
TOTAL OTHER FINANCING USES	0	0	0	0	0	0	
TOTAL EXPENDITURES	11,800,773	9,711,278	11,682,748	0	0	15,195,975	
REVENUE OVER/(UNDER) EXPENDITURES	1,412,294	492,597	0	0	0	(3,384,026)	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

210-CONFISCATED ASSETS

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
FINES AND FORFEITURES							
210-351320 FORFEITED ASSETS	0	0	0	0	0	0	
210-351321 FORFEITED ASSETS/OTHER	0	0	0	0	0	0	
210-351322 STATE ASSETS - PENDING	0	71,087	0	0	0	0	
210-351323 STATE ASSETS - AWARDED	0	1,545	0	0	0	0	
210-351324 FEDERAL ASSETS - PENDING	0	(90,387)	0	0	0	0	
TOTAL FINES AND FORFEITURES	0	(17,755)	0	0	0	0	
INVESTMENT INCOME							
210-361000 INTEREST INCOME	0	0	0	0	0	0	
TOTAL INVESTMENT INCOME	0	0	0	0	0	0	
OTHER FINANCING SOURCES							
210-391200 OPERATING TRANS IN - GF	0	0	0	0	0	0	
TOTAL OTHER FINANCING SOURCES	0	0	0	0	0	0	
TOTAL REVENUES	0	(17,755)	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

210-CONFISCATED ASSETS
POLICE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
PURCHASED/CONTRACTED SVC							
210-5-3200-522202 BUILDING MAINTENANCE	0	0	0	0	0	0	
210-5-3200-523301 ADVERTISING	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	0	0	0	0	0	0	
MATERIALS & SUPPLIES							
210-5-3200-531101 OFFICE SUPPLIES	0	0	0	0	0	0	
210-5-3200-531102 SUPPLIES	4,277	0	0	0	0	0	
210-5-3200-531702 MISCELLANEOUS	0	0	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	4,277	0	0	0	0	0	
CAPITAL OUTLAYS							
210-5-3200-541400 BUILDINGS	0	0	0	0	0	0	
210-5-3200-542200 VEHICLES	0	0	0	0	0	0	
210-5-3200-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	0	0	0	0	0	0	
TOTAL POLICE	4,277	0	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

210-CONFISCATED ASSETS
OTHER FINANCING USES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
OTHER FINANCING USES							
210-5-9000-611000 OPERATING TRANSFER OUT	0	0	0	0	0	0	
TOTAL OTHER FINANCING USES	0	0	0	0	0	0	
TOTAL OTHER FINANCING USES	0	0	0	0	0	0	
TOTAL EXPENDITURES	4,277	0	0	0	0	0	
REVENUE OVER/(UNDER) EXPENDITURES	(4,277)	(17,755)	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

275-HOTEL/MOTEL TAX FUND

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(WORKS! DR
TAXES							
275-314100 HOTEL/MOTEL TAX	899,458	634,712	0	0	0	0	
TOTAL TAXES	899,458	634,712	0	0	0	0	
INVESTMENT INCOME							
275-361000 INTEREST INCOME	2	1	0	0	0	0	
TOTAL INVESTMENT INCOME	2	1	0	0	0	0	
TOTAL REVENUES	899,460	634,712	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

275-HOTEL/MOTEL TAX FUND
ECONOMIC DEVELOPMENT

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP BUD DR WORKS
MATERIALS & SUPPLIES							
275-5-7500-531101 OFFICE SUPPLIES/POSTAG	0	0	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	0	0	0	0	0	0	
OTHER COSTS							
275-5-7500-572001 TOURISM	299,790	211,550	0	0	0	0	
275-5-7500-572002 TRADE & CONVENTION CEN	149,850	105,742	0	0	0	0	
TOTAL OTHER COSTS	449,640	317,292	0	0	0	0	
TOTAL ECONOMIC DEVELOPMENT	449,640	317,292	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

275-HOTEL/MOTEL TAX FUND
OTHER FINANCING USES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
OTHER FINANCING USES							
275-5-9000-611000 OPERATING TRANSFER OUT	449,820	317,421	0	0	0	0	
TOTAL OTHER FINANCING USES	449,820	317,421	0	0	0	0	
TOTAL OTHER FINANCING USES	449,820	317,421	0	0	0	0	
TOTAL EXPENDITURES	899,460	634,712	0	0	0	0	
REVENUE OVER/(UNDER) EXPENDITURES	0	0	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

320-SPLOST FUND

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(DR WORKS!
INTERGOVERNMENTAL REVENU							
320-335100 TSPLOST	0	0	0	0	0	0	
320-337104 SPLOST '14	1,330,827	817,348	0	0	0	0	
320-337105 SPLOST '21	0	0	1,168,000	0	0	1,693,350	
TOTAL INTERGOVERNMENTAL REVENU	1,330,827	817,348	1,168,000	0	0	1,693,350	
INVESTMENT INCOME							
320-361000 INTEREST INCOME	16,868	10,721	0	0	0	0	
TOTAL INVESTMENT INCOME	16,868	10,721	0	0	0	0	
OTHER FINANCING SOURCES							
320-391400 OPER TRANSFER IN - FUND BALAN	0	0	0	0	0	0	
TOTAL OTHER FINANCING SOURCES	0	0	0	0	0	0	
TOTAL REVENUES	1,347,695	828,068	1,168,000	0	0	1,693,350	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

320-SPLOST FUND
STREET MAINTENANCE

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
MATERIALS & SUPPLIES							
320-5-4200-531101 OFFICE SUPPLIES	0	64	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	0	64	0	0	0	0	
CAPITAL OUTLAYS							
320-5-4200-541001 INFRASTRUCTURES	1,278,044	1,311,870	450,000	0	0	0	
320-5-4200-541100 TSPLOST ROADS	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	1,278,044	1,311,870	450,000	0	0	0	
TOTAL STREET MAINTENANCE	1,278,044	1,311,934	450,000	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

320-SPLOST FUND
STORMWATER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
PURCHASED/CONTRACTED SVC							
320-5-4250-521204 PROFESSIONAL SERVICES	0	0	0	0	0	0	
320-5-4250-523330 ADVERTISING	0	0	0	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	0	0	0	0	0	0	
MATERIALS & SUPPLIES							
320-5-4250-531101 OFFICE SUPPLIES	0	0	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	0	0	0	0	0	0	
CAPITAL OUTLAYS							
320-5-4250-541001 PUBLIC PROPERTIES	454,651	687,845	0	0	0	0	
320-5-4250-541100 TSPLOST STORMWATER	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	454,651	687,845	0	0	0	0	
TOTAL STORMWATER	454,651	687,845	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

320-SPLOST FUND
SEWER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
CAPITAL OUTLAYS							
320-5-4330-541100 TSPLOST SEWER	0	0	0	0	0	0	
320-5-4330-541415 DOWNTOWN REHAB - P3	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	0	0	0	0	0	0	
TOTAL SEWER	0	0	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

320-SPLOST FUND
LEISURE SERVICES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
CAPITAL OUTLAYS							
320-5-6100-541001 PUBLIC PROPERTIES	9,136	46,180	418,000	0	0	1,693,350	
TOTAL CAPITAL OUTLAYS	9,136	46,180	418,000	0	0	1,693,350	
TOTAL LEISURE SERVICES	9,136	46,180	418,000	0	0	1,693,350	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

320-SPLOST FUND
OTHER FINANCING USES

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
OTHER FINANCING USES							
320-5-9000-611000 OPERATING TRANSFER OUT	34	0	0	0	0	0	
320-5-9000-611002 OPER TRANSFER OUT-W&S	0	0	0	0	0	0	
TOTAL OTHER FINANCING USES	34	0	0	0	0	0	
TOTAL OTHER FINANCING USES	34	0	0	0	0	0	
TOTAL EXPENDITURES	1,741,865	2,045,958	868,000	0	0	1,693,350	
REVENUE OVER/(UNDER) EXPENDITURES	(394,170)	(1,217,890)	300,000	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

505-WATER & SEWER FUND

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
INTERGOVERNMENTAL REVENU							
505-334312 STATE OF GA - GDOT WELCOME CT	0	0	0	0	0	0	
TOTAL INTERGOVERNMENTAL REVENU	0	0	0	0	0	0	
CHARGES FOR SERVICES							
505-344210 WATER CHARGES	1,455,781	1,547,832	1,000,000	0	0	1,642,886	
505-344211 WATER CONNECTION INSPECTION	45,773	42,947	8,750	0	0	44,360	
505-344212 RICE-HOPE ADD ON - WATER	54,693	16,424	0	0	0	35,559	
505-344214 AID TO CONSTRUCTION PW-WATER	262,919	208,664	44,850	0	0	235,792	
505-344255 SEWER FEES	1,910,268	1,927,333	1,220,000	0	0	2,055,316	
505-344256 SEWER CONNECTION FEES	5,250	4,425	3,750	0	0	4,838	
505-344257 RICE-HOPE ADD ON - SEWER	15,303	4,595	0	0	0	9,949	
505-344259 AID TO CONSTRUCTION PW-SEWER	1,453,466	1,085,539	196,950	0	0	1,269,502	
505-346902 MISCELLANEOUS FEES	394	946	0	0	0	0	
505-346903 LATE PMT PENALTIES	56,183	51,709	45,000	0	0	51,709	
505-349300 BAD CHECK FEE	1,325	1,075	200	0	0	0	
505-349301 CUT-OFF FEES	23,100	23,600	20,000	0	0	23,600	
TOTAL CHARGES FOR SERVICES	5,284,454	4,915,090	2,539,500	0	0	5,373,511	
INVESTMENT INCOME							
505-361000 INTEREST INCOME	38,145	34,849	12,000	0	0	12,000	
TOTAL INVESTMENT INCOME	38,145	34,849	12,000	0	0	12,000	
CONTRIB/DON FROM PRIVATE							
505-371100 CONTRIBUTIONS FROM PRIVATE DE	0	0	0	0	0	0	
TOTAL CONTRIB/DON FROM PRIVATE	0	0	0	0	0	0	
MISCELLANEOUS REVENUE							
505-381000 TELECOMMUNICATION LEASE	80,447	92,237	55,000	0	0	92,255	
505-383001 INSURANCE REIMBURSEMENTS	0	0	0	0	0	0	
505-389000 OTHER MISCELLANEOUS REVENUE	0	0	0	0	0	0	
505-389002 CAPITAL CONTRIBUTION FROM OTH	0	0	0	0	0	0	
TOTAL MISCELLANEOUS REVENUE	80,447	92,237	55,000	0	0	92,255	
OTHER FINANCING SOURCES							
505-391202 OP TRANS IN - GF	0	0	0	0	0	0	
505-391203 OPER TRANSFER IN - SPLOST	0	0	0	0	0	0	
505-391204 ASSIGNED TO BUDGET	0	0	0	0	0	0	
505-391400 OPER TRANSFER IN - FUND BALAN	0	0	0	0	0	0	
505-391401 ASSIGNED - ASSET REPLACEMENT	0	0	0	0	0	0	
505-392100 SALE OF FIXED ASSETS	0	0	0	0	0	0	
505-393500 CAPITAL LEASE ACQUISITION	0	0	0	0	0	0	
TOTAL OTHER FINANCING SOURCES	0	0	0	0	0	0	
TOTAL REVENUES	5,403,045	5,042,176	2,606,500	0	0	5,477,766	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

505-WATER & SEWER FUND
SEWER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
PERSONNEL SVCS & EMPL BEN							
505-5-4330-511101 SALARIES - REGULAR	2,000	22,793	31,132	0	0	33,526	
505-5-4330-511300 OVERTIME	0	363	1,000	0	0	484	
505-5-4330-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
505-5-4330-512101 INSURANCE - GROUP	8	0	19,755	0	0	20,249	
505-5-4330-512201 P/R TAXES	622	1,736	2,382	0	0	2,565	
505-5-4330-512400 RETIREMENT - GMEBS	1,576	11,666	1,573	0	0	2,749	
505-5-4330-512700 WORKMENS COMP INS	2,213	1,890	139	0	0	114	
505-5-4330-512902 LONG & SHORT TERM DIS	(29)	0	0	0	0	359	
TOTAL PERSONNEL SVCS & EMPL BEN	6,390	38,448	55,982	0	0	60,046	
PURCHASED/CONTRACTED SVC							
505-5-4330-521200 WELLNESS SERVICES	0	0	0	0	0	0	
505-5-4330-521201 MEDICAL SCREENING	0	0	0	0	0	0	
505-5-4330-521202 ACCOUNTING / AUDIT FEE	7,527	0	9,000	0	0	0	
505-5-4330-521204 PROFESSIONAL SERVICES	59,085	36,893	45,000	0	0	34,150	
505-5-4330-521300 METER READING SERVICES	62,574	154,175	94,395	0	0	155,000	
505-5-4330-52203	0	0	0	0	0	0	
505-5-4330-522201 VEHICLE REPAIRS & MAIN	0	0	1,000	0	0	0	
505-5-4330-522202 BUILDING MAINTENANCE	0	0	4,000	0	0	0	
505-5-4330-522203 EQUIPMENT REPAIRS & MA	27,715	20,417	45,903	0	0	0	
505-5-4330-522208 MAINTENANCE AGREEMENTS	14,779	20,479	35,000	0	0	5,803	
505-5-4330-522310 LEASE AGREEMENTS	270	167	400	0	0	0	
505-5-4330-522320 RENTAL OF EQUIPMENT &	86	259	1,000	0	0	0	
505-5-4330-523100 INSURANCE - GENERAL	13,144	13,343	12,000	0	0	13,000	
505-5-4330-523200 COMMUNICATIONS	4,550	2,431	5,400	0	0	0	
505-5-4330-523301 ADVERTISING	0	0	300	0	0	0	
505-5-4330-523401 PRINTING	0	209	400	0	0	0	
505-5-4330-523501 TRAVEL	0	0	0	0	0	0	
505-5-4330-523502 HOTEL	0	0	0	0	0	0	
505-5-4330-523601 DUES & SUBSCRIPTIONS	2,412	3,301	12,000	0	0	4,000	
505-5-4330-523702 EDUCATION & TRAINING	0	0	2,500	0	0	0	
505-5-4330-523850 CONTRACT LABOR	0	2,823	0	0	0	0	
505-5-4330-523852 CONTRACT SERVICES	743,778	573,254	749,337	0	0	586,667	
TOTAL PURCHASED/CONTRACTED SVC	935,919	827,752	1,017,635	0	0	798,620	
MATERIALS & SUPPLIES							
505-5-4330-531101 OFFICE SUPPLIES	1,114	1,933	2,500	0	0	0	
505-5-4330-531102 SUPPLIES	29	1,017	300	0	0	0	
505-5-4330-531107 TOOLS	0	0	0	0	0	0	
505-5-4330-531121 POSTAGE	5,168	4,809	6,000	0	0	7,000	
505-5-4330-531220 NATURAL GAS	622	680	800	0	0	1,000	
505-5-4330-531230 ELECTRICITY	65,828	67,248	80,000	0	0	125,000	
505-5-4330-531270 GAS & OIL	708	112	0	0	0	0	
505-5-4330-531301 ENTERTAINMENT	0	0	0	0	0	0	
505-5-4330-531510 SAVANNAH CONSUMPTION	285,632	221,840	200,000	0	0	0	
505-5-4330-531701 UNIFORMS	0	0	500	0	0	500	
505-5-4330-531702 MISCELLANEOUS	0	0	500	0	0	500	
TOTAL MATERIALS & SUPPLIES	359,101	297,640	290,600	0	0	134,000	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

505-WATER & SEWER FUND
SEWER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
CAPITAL OUTLAYS							
505-5-4330-541001 INFRASTRUCTURES	0	0	162,093	0	0	0	
505-5-4330-541002 WELCOME CENTER	0	0	0	0	0	0	
505-5-4330-541300 BUILDINGS	0	0	0	0	0	0	
505-5-4330-541412 DT REHAB P2	0	0	0	0	0	0	
505-5-4330-542100 HEAVY EQUIPMENT	0	0	0	0	0	0	
505-5-4330-542200 VEHICLES	0	0	0	0	0	0	
505-5-4330-542400 COMPUTERS	341	0	0	0	0	0	
505-5-4330-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	341	0	162,093	0	0	0	
DEPRECIATION							
505-5-4330-561000 DEPRECIATION	498,391	497,622	0	0	0	0	
TOTAL DEPRECIATION	498,391	497,622	0	0	0	0	
OTHER COSTS							
505-5-4330-571006 VEHICLE REPLACEMENT	0	0	0	0	0	0	
505-5-4330-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
505-5-4330-571008 INFRASTRUCTURE REPLACM	0	12,100	30,000	0	0	0	
505-5-4330-571009 ASSET REPLACEMENT - WW	0	0	0	0	0	0	
505-5-4330-574000 BAD DEBTS	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	12,100	30,000	0	0	0	
DEBT SERVICE							
505-5-4330-581200 '17 CAPITAL LEASE PRIN	8,328	0	7,300	0	0	0	
505-5-4330-581300 GEFA II PRINCIPAL	0	0	0	0	0	0	
505-5-4330-582200 '17 CAPITAL LEASE INTE	471	275	400	0	0	0	
505-5-4330-582300 GEFA II INTEREST	0	0	0	0	0	0	
TOTAL DEBT SERVICE	8,799	275	7,700	0	0	0	
TOTAL SEWER	1,808,942	1,673,837	1,564,010	0	0	992,666	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

505-WATER & SEWER FUND
SEWAGE TREATMENT

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP BUD DR WORKS
PERSONNEL SVCS & EMPL BEN							
505-5-4335-511101 SALARIES - REGULAR	16,775	0	0	0	0	0	
505-5-4335-511300 OVERTIME	454	0	0	0	0	0	
505-5-4335-512101 INSURANCE - GROUP	2,579	4,471	0	0	0	0	
505-5-4335-512201 P/R TAXES	1,722	0	0	0	0	0	
505-5-4335-512400 RETIREMENT - GMEBS	2,147	6,710	0	0	0	0	
505-5-4335-512700 WORKMENS COMP INS	2,402	1,855	0	0	0	0	
505-5-4335-512902 LONG & SHORT DISABILIT	794	0	0	0	0	0	
TOTAL PERSONNEL SVCS & EMPL BEN	26,874	13,036	0	0	0	0	
PURCHASED/CONTRACTED SVC							
505-5-4335-521200 WELLNESS SERVICES	0	0	0	0	0	0	
505-5-4335-521201 MEDICAL SCREENING	0	0	0	0	0	0	
505-5-4335-521202 ACCOUNTING / AUDIT FEE	7,527	0	9,000	0	0	0	
505-5-4335-521204 PROFESSIONAL FEES	8,015	16,943	10,000	0	0	0	
505-5-4335-521305 WWTF - LAB TESTING	0	0	8,000	0	0	0	
505-5-4335-522201 VEHICLE REPAIRS & MAIN	0	0	1,000	0	0	0	
505-5-4335-522202 BUILDING MAINTENANCE	0	0	5,000	0	0	0	
505-5-4335-522203 EQUIPMENT REPAIRS & MA	43,142	13,631	90,000	0	0	100,000	
505-5-4335-522208 MAINTENANCE AGREEMENTS	12,500	6,053	15,000	0	0	28,567	
505-5-4335-522320 RENTAL OF EQUIPMENT/VE	86	0	2,500	0	0	0	
505-5-4335-523100 INSURANCE - GENERAL	30,484	32,085	30,000	0	0	38,000	
505-5-4335-523200 COMMUNICATIONS	1,662	(352)	11,500	0	0	0	
505-5-4335-523301 ADVERTISING	0	0	0	0	0	0	
505-5-4335-523401 PRINTING	0	0	0	0	0	0	
505-5-4335-523501 TRAVEL	0	0	0	0	0	0	
505-5-4335-523502 HOTEL	0	0	0	0	0	0	
505-5-4335-523601 DUES & SUBSCRIPTIONS	0	0	0	0	0	0	
505-5-4335-523702 EDUCATION & TRAINING	0	0	0	0	0	0	
505-5-4335-523850 CONTRACT LABOR	0	2,823	5,000	0	0	0	
505-5-4335-523852 CONTRACT SERVICES	464,861	571,779	632,960	0	0	586,667	
505-5-4335-523903 DUMP FEES	0	0	25,000	0	0	0	
TOTAL PURCHASED/CONTRACTED SVC	568,277	642,963	844,960	0	0	753,234	
MATERIALS & SUPPLIES							
505-5-4335-531101 OFFICE SUPPLIES	0	226	500	0	0	0	
505-5-4335-531102 SUPPLIES	27,421	(12,810)	73,216	0	0	0	
505-5-4335-531107 TOOLS	0	0	15,000	0	0	0	
505-5-4335-531121 POSTAGE	3	0	300	0	0	0	
505-5-4335-531123 CHEMICALS	0	0	4,500	0	0	5,000	
505-5-4335-531230 ELECTRICITY	116,141	32,285	125,000	0	0	156,000	
505-5-4335-531270 GAS & OIL	0	0	300	0	0	0	
505-5-4335-531701 UNIFORMS	0	0	1,000	0	0	0	
505-5-4335-531702 MISCELLANEOUS	73	0	0	0	0	0	
TOTAL MATERIALS & SUPPLIES	143,638	19,700	219,816	0	0	161,000	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

505-WATER & SEWER FUND
SEWAGE TREATMENT

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	PROP(BUD(DR WORKS!
CAPITAL OUTLAYS							
505-5-4335-541001 INFRASTRUCTURES	0	0	2,169,956	0	0	0	
505-5-4335-541300 BUILDINGS	0	0	0	0	0	0	
505-5-4335-542100 HEAVY EQUIPMENT	0	0	0	0	0	0	
505-5-4335-542200 VEHICLES	0	0	0	0	0	0	
505-5-4335-542400 COMPUTERS	0	0	17,000	0	0	0	
505-5-4335-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
TOTAL CAPITAL OUTLAYS	0	0	2,186,956	0	0	0	
DEPRECIATION							
505-5-4335-561000 DEPRECIATION	360,985	367,794	0	0	0	0	
TOTAL DEPRECIATION	360,985	367,794	0	0	0	0	
OTHER COSTS							
505-5-4335-571006 VEHICLE REPLACEMENT	0	0	0	0	0	0	
505-5-4335-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
505-5-4335-571008 INFRASTRUCTURE REPLACE	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	0	0	0	0	0	
DEBT SERVICE							
505-5-4335-581302 USDA PRINCIPAL	0	0	73,218	0	0	1,063,046	
505-5-4335-582302 USDA INTEREST	87,520	85,902	48,142	0	0	82,586	
TOTAL DEBT SERVICE	87,520	85,902	121,360	0	0	1,145,632	
TOTAL SEWAGE TREATMENT	1,187,294	1,129,395	3,373,092	0	0	2,059,866	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

505-WATER & SEWER FUND
WATER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
PERSONNEL SVCS & EMPL BEN							
505-5-4400-511101 SALARIES - REGULAR	(9,067)	14,500	31,132	0	0	33,526	
505-5-4400-511300 OVERTIME	0	0	1,000	0	0	484	
505-5-4400-512001 UNEMPLOYMENT BENEFIT	0	0	0	0	0	0	
505-5-4400-512101 INSURANCE - GROUP	15	0	19,755	0	0	12,946	
505-5-4400-512201 P/R TAXES	17	1,017	2,382	0	0	2,565	
505-5-4400-512400 RETIREMENT - GMEBS	2,191	13,546	1,573	0	0	2,749	
505-5-4400-512700 WORKMENS COMP INS	13,480	10,442	139	0	0	114	
505-5-4400-512902 LONG & SHORT TERM DIS	(29)	0	0	0	0	378	
TOTAL PERSONNEL SVCS & EMPL BEN	6,606	39,504	55,981	0	0	52,762	
PURCHASED/CONTRACTED SVC							
505-5-4400-521200 WELLNESS SERVICES	0	0	0	0	0	0	
505-5-4400-521201 MEDICAL SCREENING	0	0	0	0	0	0	
505-5-4400-521202 ACCOUNTING / AUDIT FEE	7,527	0	6,000	0	0	0	
505-5-4400-521204 PROFESSIONAL SERVICES	22,228	24,067	15,000	0	0	25,680	
505-5-4400-521300 METER READING SERVICES	54,705	53,613	87,703	0	0	75,000	
505-5-4400-521304 WATER TESTING	8,470	0	0	0	0	0	
505-5-4400-522201 VEHICLE REPAIRS & MAIN	0	0	0	0	0	0	
505-5-4400-522202 BUILDING MAINTENANCE	0	0	0	0	0	0	
505-5-4400-522203 EQUIPMENT REPAIRS & MA	0	120	0	0	0	0	
505-5-4400-522208 MAINTENANCE AGREEMENTS	3,983	5,073	7,000	0	0	3,903	
505-5-4400-522210 WATER TANK MAINTENANCE	14,646	22,337	29,900	0	0	19,528	
505-5-4400-522320 RENTAL OF EQUIPMENT &	86	0	200	0	0	0	
505-5-4400-523100 INSURANCE - GENERAL	13,560	13,449	12,000	0	0	13,582	
505-5-4400-523200 COMMUNICATIONS	2,408	(100)	5,500	0	0	0	
505-5-4400-523301 ADVERTISING	0	0	0	0	0	0	
505-5-4400-523401 PRINTING	0	209	0	0	0	0	
505-5-4400-523501 TRAVEL	0	0	0	0	0	0	
505-5-4400-523502 HOTEL	0	0	0	0	0	0	
505-5-4400-523601 DUES & SUBSCRIPTIONS	523	335	1,000	0	0	500	
505-5-4400-523702 EDUCATION & TRAINING	0	0	2,500	0	0	0	
505-5-4400-523850 CONTRACT LABOR	0	2,823	0	0	0	0	
505-5-4400-523852 CONTRACT SERVICES	464,586	577,056	545,046	0	0	586,667	
TOTAL PURCHASED/CONTRACTED SVC	592,721	698,983	711,849	0	0	724,860	
MATERIALS & SUPPLIES							
505-5-4400-531101 OFFICE SUPPLIES	1,114	2,228	3,000	0	0	0	
505-5-4400-531102 SUPPLIES	38,718	398	8,000	0	0	0	
505-5-4400-531107 TOOLS	0	0	2,000	0	0	0	
505-5-4400-531121 POSTAGE	5,168	4,809	6,000	0	0	6,000	
505-5-4400-531220 NATURAL GAS	622	680	880	0	0	800	
505-5-4400-531230 ELECTRICITY	34,363	33,696	38,000	0	0	36,000	
505-5-4400-531270 GAS & OIL	0	0	8,000	0	0	0	
505-5-4400-531301 ENTERTAINMENT	0	0	0	0	0	0	
505-5-4400-531510 SAVANNAH - WATER CONSU	608,891	803,069	685,000	0	0	1,000,000	
505-5-4400-531701 UNIFORMS	0	0	500	0	0	500	
505-5-4400-531702 MISCELLANEOUS	0	418	500	0	0	500	
TOTAL MATERIALS & SUPPLIES	688,877	845,298	751,880	0	0	1,043,800	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

505-WATER & SEWER FUND
WATER

DEPARTMENTAL EXPENDITURES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS!
CAPITAL OUTLAYS							
505-5-4400-541001 INFRASTRUCTURES	0	0	0	0	0	0	
505-5-4400-541300 BUILDINGS	0	0	0	0	0	0	
505-5-4400-541417 NORTH AREA WATER TANK	0	0	0	0	0	0	
505-5-4400-542100 HEAVY EQUIPMENT	0	0	0	0	0	0	
505-5-4400-542200 VEHICLES	0	0	0	0	0	0	
505-5-4400-542400 COMPUTERS	281	0	0	0	0	0	
505-5-4400-542500 OTHER EQUIPMENT	0	0	0	0	0	0	
505-5-4400-542501 WATER METERS	0	0	20,000	0	0	0	
TOTAL CAPITAL OUTLAYS	281	0	20,000	0	0	0	
DEPRECIATION							
505-5-4400-561000 DEPRECIATION	280,867	278,821	0	0	0	0	
TOTAL DEPRECIATION	280,867	278,821	0	0	0	0	
OTHER COSTS							
505-5-4400-571006 VEHICLE REPLACEMENT	0	0	0	0	0	0	
505-5-4400-571007 EQUIPMENT REPLACEMENT	0	0	0	0	0	0	
505-5-4400-571008 INFRASTRUCTURE REPLACM	0	14,956	0	0	0	0	
505-5-4400-574000 BAD DEBTS	0	0	0	0	0	0	
TOTAL OTHER COSTS	0	14,956	0	0	0	0	
DEBT SERVICE							
505-5-4400-581200 '17 CAPITAL LEASE PRIN	8,328	(28)	0	0	0	0	
505-5-4400-581300 GEFA II PRINCIPAL	0	0	0	0	0	0	
505-5-4400-581302 GEFA - WATER TANK PRIN	0	0	0	0	0	83,766	
505-5-4400-582200 '17 CAPITAL LEASE INTE	471	275	0	0	0	0	
505-5-4400-582300 GEFA II INTEREST	0	0	0	0	0	0	
505-5-4400-582302 GEFA WATER TANK INTERE	53,952	51,586	0	0	0	46,629	
TOTAL DEBT SERVICE	62,751	51,834	0	0	0	130,395	
TOTAL WATER	1,632,103	1,929,395	1,539,711	0	0	1,951,817	
TOTAL EXPENDITURES	4,628,339	4,732,628	6,476,813	0	0	5,004,350	
REVENUE OVER/(UNDER) EXPENDITURES	774,706	309,548	(3,870,313)	0	0	473,416	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

745-MUNICIPAL COURT FUND

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(WORKS
							DR
FINES AND FORFEITURES							
745-351170 COURT FINES & FORFEITURES	0	0	0	120,397	0	0	
TOTAL FINES AND FORFEITURES	0	0	0	120,397	0	0	
TOTAL REVENUES	0	0	0	120,397	0	0	
REVENUE OVER/(UNDER) EXPENDITURES	0	0	0	120,397	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)

CITY OF PORT WENTWORTH
PROPOSED BUDGET WORKSHEET
AS OF: JUNE 30TH 2022

800-GENERAL FIXED ASSET GROUP

REVENUES	2018-2019 ACTUAL	2019-2020 ACTUAL	2020-2021 CURRENT BUDGET	2020-2021 YEAR-TO-DATE ACTUAL	2020-2021 REESTIMATED ACTUAL	2021-2022 REQUESTED BUDGET	2021-2022 PROP(BUD(DR WORKS
OTHER FINANCING SOURCES							
800-391200 OPERATING TRANS IN - GF	4,864,710	3,328,430	0	0	0	0	
800-392100 SALE OF FIXED ASSETS	(7,008)	0	0	0	0	0	
TOTAL OTHER FINANCING SOURCES	4,857,702	3,328,430	0	0	0	0	
TOTAL REVENUES	4,857,702	3,328,430	0	0	0	0	
TOTAL EXPENDITURES	0	0	0	0	0	0	
REVENUE OVER/(UNDER) EXPENDITURES	4,857,702	3,328,430	0	0	0	0	

Attachment: FY22 PROPOSED BUDGET WORKSHEET (2463 : Ordinance No. 21-01, Budget FY22, Second Reading)