



Consulting
Engineers and
Scientists

WETLANDS NOTICE OF INTENT

March 2021

Project

Conley Terminal New Gate Facilities
20 Farragut Road
Boston, Massachusetts

Applicant

Massport
One Harborside Drive, Suite 200
Boston, Massachusetts 02128

Prepared By

GEI Consultants, Inc.
124 Grove Street, Suite 300
Franklin, Massachusetts 02038



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 – Notice of Intent
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

 MassDEP File Number

 Document Transaction Number
 Boston

 City/Town

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
 Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

20 Farragut Road Boston 02127
 a. Street Address b. City/Town c. Zip Code
 Latitude and Longitude: 42.3389 -71.0184
 d. Latitude e. Longitude

 f. Assessors Map/Plat Number g. Parcel /Lot Number 0603417000

2. Applicant:

Peter DeBruin
 a. First Name b. Last Name
Massport
 c. Organization
One Harborside Drive, Suite 200
 d. Street Address
East Boston MA 02128
 e. City/Town f. State g. Zip Code
617-593-0026 _____ pdebruin@massport.com
 h. Phone Number i. Fax Number j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

 a. First Name b. Last Name

 c. Organization

 d. Street Address

 e. City/Town f. State g. Zip Code

 h. Phone Number i. Fax Number j. Email address

4. Representative (if any):

Russell Titmuss
 a. First Name b. Last Name
GEI Consultants, Inc.
 c. Company
124 Grove Street, Suite 300
 d. Street Address
Franklin MA 02038
 e. City/Town f. State g. Zip Code
774-277-6003 _____ rtitmuss@geiconsultants.com
 h. Phone Number i. Fax Number j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

\$2,012.50 \$512.50 \$1,500.00
 a. Total Fee Paid b. State Fee Paid c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The project consists of the installation of new gate facilities and internal vehicle distribution ways and controls at the Conley Terminal. See attached Project Narrative.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Suffolk	
a. County	b. Certificate # (if registered land)
5191	623
c. Book	d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet _____	2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____	2. square feet _____
	3. cubic yards dredged _____	

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____	2. square feet _____
	3. cubic feet of flood storage lost _____	4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____	
	2. cubic feet of flood storage lost _____	3. cubic feet replaced _____

f. Riverfront Area

1. Name of Waterway (if available) - **specify coastal or inland** _____

2. Width of Riverfront Area (check one):

25 ft. - Designated Densely Developed Areas only

100 ft. - New agricultural projects only

200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input checked="" type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input checked="" type="checkbox"/> Land Subject to Coastal Storm Flowage	823,900	
	1. square feet	

4. Restoration/Enhancement
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

_____	_____
a. square feet of BVW	b. square feet of Salt Marsh

5. Project Involves Stream Crossings

_____	_____
a. number of new stream crossings	b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

- 8/1/17 _____
b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

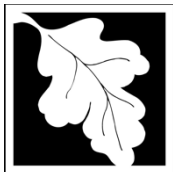
1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage
2. Assessor's Map or right-of-way plan of site

2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

- (c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site

- (e) Project plans showing Priority & Estimated Habitat boundaries

- (f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and
the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

- c. Is this an aquaculture project? d. Yes No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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Online Users:
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C. Other Applicable Standards and Requirements (cont'd)

- 4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
 b. ACEC

- 5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
 a. Yes No
- 6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
 a. Yes No
- 7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
 - 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 - 2. A portion of the site constitutes redevelopment
 - 3. Proprietary BMPs are included in the Stormwater Management System.
 b. No. Check why the project is exempt:
 - 1. Single-family house
 - 2. Emergency road repair
 - 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



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D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

See attached List of Attachments.

a. Plan Title

b. Prepared By

c. Signed and Stamped by

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

756835

2. Municipal Check Number

3/5/21

3. Check date

756840

4. State Check Number

3/5/21

5. Check date

GEI Consultants, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name



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MassDEP File Number _____

Document Transaction Number _____

Boston

City/Town _____

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Peter DeBruin
1. Signature of Applicant

3/25/21
2. Date

3. Signature of Property Owner (if different)

RJ Fanning
5. Signature of Representative (if any)

4. Date 3/25/21
6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

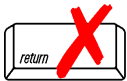
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



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Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

20 Farragut Road Boston
 a. Street Address b. City/Town
 756840 \$512.50
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Peter DeBruin
 a. First Name b. Last Name
 Massport
 c. Organization
 One Harborside Drive, Suite 200
 d. Mailing Address
 Boston MA 02128
 e. City/Town f. State g. Zip Code
 617-593-0026 pdebruin@massport.com
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

a. First Name b. Last Name
 c. Organization
 d. Mailing Address
 e. City/Town f. State g. Zip Code
 h. Phone Number i. Fax Number j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



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B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 3 (commercial/industrial)	1	\$1,050	\$1,050
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			\$ 1,050.00
Step 6/Fee Payments:			
Total Project Fee:			<u>\$1,050.00</u> a. Total Fee from Step 5
State share of filing Fee:			<u>\$512.50</u> b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:			<u>\$1,500.00</u> c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

Conley Terminal New Gate Facilities – Boston, MA

Wetlands Notice of Intent List of Attachments

Project Description (pages 1 – 7)

Figure A – Project Locus

- Prepared by: GEI Consultants, Inc.
- Date: 3/8/2021
- Scale: 1" = 2,000'

Drawings

C-101: Conley Terminal Site Plan

- Prepared by: Russell Titmuss
- Signed and Stamped by: Russell Titmuss
- Date: 3/8/2021
- Scale: 1" = 200'

C-102: Limit of Construction and Location of Perimeter Erosion Controls

- Prepared by: Russell Titmuss
- Signed and Stamped by: Russell Titmuss
- Date: 3/8/2021
- Scale: 1" = 200'

G-007 thru G-008: Key and Alignment Plans

- Prepared by: Russell Titmuss
- Signed and Stamped by: Russell Titmuss
- Date: 3/8/2021
- Scale: 1" = 0'

CD-101 thru CD-114: Drainage and Grading Plans

- Prepared by: Russell Titmuss
- Signed and Stamped by: Russell Titmuss
- Date: 3/8/2021
- Scale: 1" = 20'

Attachment A – Stormwater Runoff Analysis and Operation and Maintenance Plan

- Prepared by: HDR Architecture, P.C.
- Date: 3/10/2021

Miscellaneous Documents

- NOI Wetland Fee Transmittal Form
- Filing Checklist – Boston Conservation Commission
- FEMA FIRMettes (City of Boston Panels 25025C0084J) – dated 3/16/16
- Checklist for Stormwater Report

- Affidavit of Service – Abutter Notification
- Notification to Abutters
- Certified Listing of Abutters

Checklist for Filing a Notice of Intent with Boston Conservation Commission

In order for the Boston Conservation Commission to effectively process your Notice of Intent, BCC requests that you complete the checklist below and include it with your submission. If you should need assistance please contact Commission Staff: 617-635-3850 (cc@boston.gov).

Please Submit the Following to the Conservation Commission:

- Two copies (a signed original and 1 copy) of a completed Notice of Intent (WPA Form 3)
- Two copies (a signed original and 1 copy) of a completed Boston Notice of Intent (Local Form) **Massport is exempt from Ordinance**
- Two copies of plans (reduced to 11" X 17") in their final form with engineer's stamp affixed supporting calculations and other documentation necessary to completely describe the proposed work and mitigating measures. Plans must include existing conditions, the proposed project, erosion controls and mitigation measures, grading and spot elevations and all wetland resource areas and associated buffer zones. Some projects may require both an aerial view of the plans along with a profile view of plans depending on the scope of work.
- Two copies of an 8 ½" x 11" section of the [USGS quadrangle map](#) of the area, containing sufficient information for the Conservation Commission and the Department to locate the site of the work.
- (If applicable) Two copies the Federal Emergency Management Agency Flood Insurance Rate Map for the project site. FEMA Flood Maps: <https://msc.fema.gov/portal>.
- Two copies of the determination regarding the Natural Heritage and Endangered Species Program: Review Section C. Other Applicable Standards and Requirements of the Notice of Intent, page 4 of 8, pertaining to wildlife habitat. The Conservation Commission and the [Natural Heritage & Endangered Species Program](#) have the maps necessary to make this determination. **Not applicable.**
- (If applicable) Two hard copies of a Stormwater Report to document compliance with the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q), including associated drainage calculations for rooftops, parking lots, driveways, etc., for the required design storm events.
- (If applicable) A narrative detailing best management practices for stormwater management as set forth in the Stormwater Management Standards of the Massachusetts Department of Environmental Protection and any separate standards and guidelines prepared by the City and the Boston Water and Sewer Commission.
- (If applicable) Two hard copies of the Checklist for Stormwater Report
- Details of the stormwater management system, including: catch basins, oil separating tanks, detention basins, outfalls, sewer connections, etc.
- Any photographs related to the project representing the wetland resource areas.
- Two copies of a detailed project narrative describing the following: an overview of the entire project, the work proposed within wetland resource areas and/or buffer zones; how the performance standards specific to the wetland resource areas will be met (listing out each performance standard); a consideration of the effect that projected sea level rise, changes in storm intensity and frequency, and other consequences of climate change may have on the resource areas and proposed activities; construction equipment and material involved; and measures to protect wetland resource areas and mitigate impacts. The applicant shall also include narrative on how they plan to integrate climate change and adaptation planning considerations into their project to promote climate resilience to protect and promote Resource Area Values and functions into the future.
- Two copies of an Abutters List, Affidavit of Service and [Abutter Notification](#), filed concurrently with the Notice of Intent. Abutter notices shall be sent in both English and the second most commonly spoken language(s) in the neighborhood(s) where the project is proposed. Notices shall also include Babel notice cards for additional translation and language access services. All abutters within 300' of the project

Checklist for Filing a Notice of Intent with Boston Conservation Commission

property line must be notified including those in a neighboring municipality. In such an instance, a copy of the filing must also be sent to the local Conservation Commission of the neighboring municipality.

EXCEPTION: When work is in land under water bodies and waterways or on a tract of land greater than 50 acres, written notification must only be given to abutters within 300 feet of the "project site." **Notice sent to abutters within 100' of site.**

- Two copies of the BPDA Climate Resiliency Checklist (for new buildings). This can be completed online at <http://www.bostonplans.org/planning/planning-initiatives/article-37-green-building-guidelines>. Please print the pdf that you will receive via email after completion and include it in your submission. **Not applicable.**
- Electronic copies.** Documents may be submitted via email, or via an email link to downloadable documents.



To minimize the use of non-recyclable materials **please do not include vinyl or plastic binders, bindings, folders or covers with the filing.** Staples and binder clips are good choices.

Conley Terminal New Gate Facilities – Boston, MA

Wetlands Notice of Intent – Project Narrative

Introduction

The Massachusetts Port Authority (Massport) is seeking to implement an advanced, modern gate facility at Conley Terminal to complement other recent improvements, including the new Berth 10, terminal expansion into the former Coastal Oil site, and the Berths 11 and 12 Backlands reconstruction. The new gate facilities will be sited along the south side of the terminal on areas that are currently underutilized. Along with the installation of the new gate facilities, internal traffic distribution improvements will be constructed to promote the separation of freight vehicles from other traffic within the terminal. The proposed project will improve the resiliency of the facility by installing critical equipment above the flood elevation.

Existing Conditions

The Project Site consists of approximately 22.3 acres of the Conley Terminal property and is located primarily along the terminal's southern boundary. The site is bordered to the north by the Reserved Channel, to the south by Castle Island, to the east by a bulkhead wall being installed pursuant to the conditions of an Order of Conditions issued under DEP File number 006-1737 on June 17, 2020, and to the west by Conley Terminal security building. The area locus is depicted in Figure A – Locus Plan and the site-specific locus is depicted in blue in Figure PN-1 below. A recent aerial view of the Conley Terminal facilities is presented in Figure PN2 below.

The surface of the Project Site is almost entirely paved for use as roadways and parking lots, with the eastern end of the site being recently used primarily for refrigerated container ("reefer") storage and handling. That reefer storage function has now been relocated to the recently constructed reefer racks within the main terminal storage stacks, leaving the former area open.

At the western end, the Project Site crosses the former Coastal Oil terminal and former MBTA sites. The former uses on these two sites were discontinued and the facilities were demolished to grade by the former owners, leaving much of the surface covered with the remnants of the different slabs and structure foundations. The Coastal Oil site has some residual LNAPL contamination in the soils, typically four to five feet below existing grades. The MBTA site included a former power-generating station. In total, the Project Site crosses seven individual sites with reportable Release Tracking Numbers (RTN): RTN 3-20661, RTN 3-15183, RTN 3-257, RTN 3-16794, RTN 3-27846, RTN 3-2835 and RTN 3-20000.

With surface elevations varying between +10' and +12' (NAVD), the majority of the Project Site is located within FEMA Flood Hazard Zone AE (Base Flood Elevation = +12' NAVD) as depicted in attached Figures B, C, and D. All such areas of the Project Site are Land Subject to Coastal Storm Flowage, as defined at 310 CMR 10.04. Further, a Coastal Bank resource area exists approximately 34 feet to the east of the eastern end of the Project Site, with the top of bank being coincident with the top of a bulkhead beneath the pier at terminal berths 16 and 17. The locations of the resource areas and boundary of the Coastal Bank buffer zone are depicted in Drawing C-102.

Stormwater runoff from the site is collected in catch basins and conveyed via an existing drainage system to existing drainage outfalls along the terminal bulkheads. These outfalls discharge either directly to Boston Harbor or to the harbor via the Reserve Channel. Stormwater discharges from the existing outfalls at both the eastern and western ends of the Project Site currently are pretreated by passage through treatment units. Discharges from outfalls fed by runoff from the mid-length of the Project Site are not currently pretreated but will be upon the completion of a parallel project known as the “Berths 11 and 12 Backlands Reconstruction” project. A comprehensive review of stormwater management at the Project Site is presented in Attachment A - *Stormwater Runoff Analysis and Operation and Maintenance Plan*.



Figure PN1 - Project Site

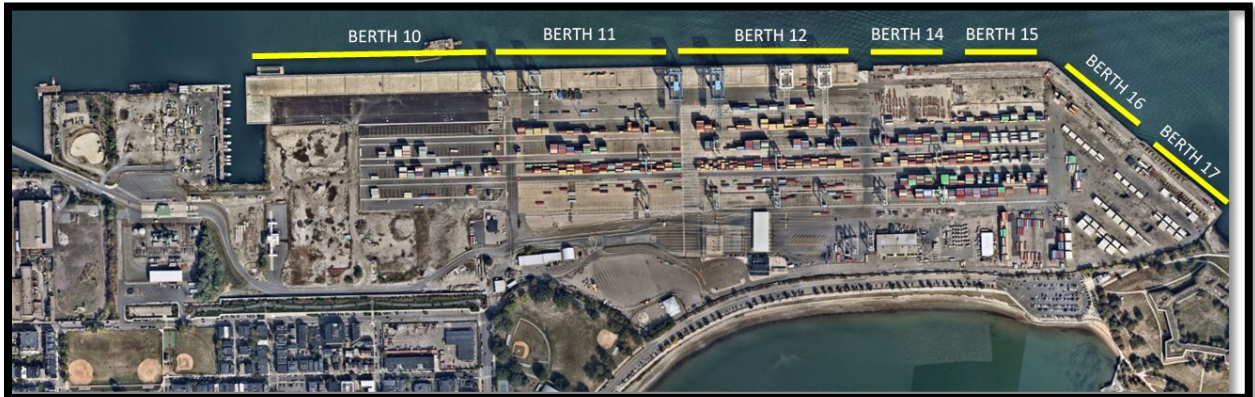


Figure PN2 - Conley Terminal

Proposed Action

The proposed project consists of the construction of roadway surface, utilities, drainage, traffic controls and other equipment required for the installation and operation of the new gate facilities and processing system (see Drawing Sheets G-007, G-008, and CD-101 through CD-114). All work will be landward of the terminal’s existing bulkheads. Equipment required for the new gate facilities includes cameras, scanners, lighting, truck scales, gate arms, and kiosks, together with the necessary power and communications network. Cameras, scanners, and lighting typically are mounted on poles set on shallow concrete foundations while other equipment is fixed directly to a shallow concrete foundation.

The construction will require some excavation to prepare for foundations, roadway construction, and utility installations. The excavated fill will be reused on-site to the maximum extent practical. Any excavated material removed from the Project Site (if determined to be necessary) will be disposed at licensed facilities. Where the Project Site is unpaved at the western end, old slabs and foundations will be removed as necessary to complete the project. To the extent practical, existing concrete and stone will be crushed for reuse as on-site fill but any excess will be disposed offsite at licensed facilities.

Although most of the surface of the Project Site currently is paved and impervious, approximately 4.4 acres of currently unpaved land will be paved to accommodate the project. Of that 4.4 acres of new pavement, approximately 0.8 acres will be over the former powerplant floor slab. Accordingly, only 3.6 acres of impervious surface will be added to the terminal property as a result of the project. It must be noted that all of this new impervious surface will be placed upon sites with prior reportable releases subject to the provisions of the Massachusetts Contingency Plan. The addition of such impervious surface to these areas is consistent with the AUL (Activity and Use Limitation) plan adopted for these sites.

Stormwater runoff will be collected and conveyed to existing drainage outfalls via the terminal's existing system (see Drawing Sheets CD-101 through CD-114). Runoff from the proposed facilities will be pretreated in compliance with the provisions the Massachusetts Stormwater Management Standards prior to discharge to the harbor, with some volume passing through existing pretreatment units and additional volumes passing through pretreatment units that will be installed as part of the Berths 11 and 12 Backlands Reconstruction project (see Attachment A - *Stormwater Runoff Analysis and Operation and Maintenance Plan*). Infiltration is not recommended for this property given the presence of sites with prior reportable releases.

Construction Activities

Construction will require demolition of existing structures and removal of existing pavement from the footprint of the proposed project. Demolition debris will be segregated and recycled to the extent practicable. Excavated soils will be stockpiled within a designated soil management area enclosed using a dense fiber roll to prevent migration of sediment. All excavation activities will remain separated from the harbor by the existing terminal bulkheads. New roadway construction and utility installations will follow conventional construction practices.

Construction has been designed and will be sequenced to minimize or eliminate the potential for the discharge of silt and other construction debris to the harbor. The project will commence with installation of environmental controls around the perimeter of the site on both the landside and waterside. Sedimentation controls, including catch basin filters and filter socks, will be installed before demolition and excavation activities begin. Catch basin filters will be installed in all catch basins (existing and proposed) that will receive surface runoff from the construction area. Filter socks will be installed along the entire perimeter of the project area, in alignment with the LOD (Limit of Disturbance) line depicted in Drawing C-102. Along the line abutting the eastern edge of the Project Site, where the work will occur at a distance of less than 100 feet from harbor waters, a double line of filter sock will be installed. Additionally, a debris containment boom will be deployed before the initiation of work activities within 100 feet of harbor waters. Wheel wash equipment will be provided at the site to provide for the washing of construction vehicles before they exit the work site. These washdown facilities will be located at a distance of greater than 100 feet from harbor waters. No refueling of construction equipment will occur within 100 feet of a catch basin or harbor waters.

Oil booms and other pollution control measures will be present on-site and ready for immediate use if required during construction. All construction activities will comply with the Massachusetts Contingency Plan (MCP), and a Soil Management Plan (SMP) will be prepared by a Licensed Site Professional (LSP) prior to the initiation of construction activities with the potential to disturb soil, including, but not limited to, the construction of new foundations, roadway grading, and the installation of utilities.

The site contractor will be responsible for stormwater management of the active construction site and is required to adhere to the conditions of the 2017 NPDES Construction General Permit (CGP) issued by the U.S. Environmental Protection Agency. A Storm Water Pollution Prevention Plan (SWPPP) will be prepared in accordance with the provisions of the CGP and will be submitted to the Boston Conservation Commission prior to initiation of construction.

Impacts to Wetland Resource Areas

Land Subject to Coastal Storm Flowage

The proposed project involves work within Land Subject to Coastal Storm Flowage (LSCSF). LSCSF is defined as land subject to any inundation caused by coastal storms up to and including that caused by the 100-year event, surge of record or storm of record, whichever is greater. The Federal Emergency Management Agency (FEMA) has defined the 100-year flood elevation at the Project Site to be elevation +12' (NAVD). At that elevation, most of the Project Site lies within this resource area.

No specific performance standards are defined in the Massachusetts Wetlands Regulations (310 CMR 10.00) for work to be conducted within LSCSF. Nevertheless, the proposed new gate project will have no effect on future flood conditions, either on the site or on adjacent properties. As currently occurs, this project site will flood during extreme storm events.

Coastal Bank

Part of the Project Site includes land located within the 100-foot buffer zone adjacent to a Coastal Bank (see Drawing C-102). The work proposed within the buffer zone consists of the repaving of the surface of the terminal yard up to the face of a new bulkhead being installed pursuant to the conditions of an Order of Conditions issued under DEP File number 006-1737 on June 17, 2020. The new bulkhead is being installed approximately 34 feet west of the top of the Coastal Bank. The implementation of the sedimentation controls specified herein under Construction Activities, particularly the use of a double row of filter socks along the eastern edge of the Project Site, will protect the Coastal Bank from disturbance during repaving activities. The installation of the new bulkhead wall in compliance with the June 17, 2020 Order of Conditions will ensure that activities conducted landward of it, will not adversely affect the stability of the adjacent Coastal Bank and its capacity to serve as a natural wall against storm damage.

Compliance with Massachusetts Stormwater Standards

The proposed new gate project is a redevelopment project; accordingly, the project is subject to the ten (10) Massachusetts Stormwater Management Standards only to the extent specified in Standard 7. Per the provisions of Standard 7, a redevelopment project is required to meet Standards 2 and 3 and the pretreatment and structural best management practice requirements of Standards 4, 5, and 6 only to the maximum extent practicable. The following is a summary of

the project's compliance with the stormwater standards.

Standard 1

No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

Compliance with Standard 1

The project does not include the installation of a new stormwater outfall. All stormwater from the new gate facilities will be conveyed to existing stormwater systems. All discharges from these existing systems are either currently pretreated via passage through catch basins with deep sumps and oil trap hoods, followed by passage through water quality structures, or will be pretreated prior to the addition of stormwater runoff from the new gate facilities (see Attachment A - *Stormwater Runoff Analysis and Operation and Maintenance Plan*).

Standard 2

Stormwater management systems shall be designed so that post-development peak discharge rates do not exceed pre-development peak discharge rates. This Standard may be waived for discharges to land subject to coastal storm flowage as defined in 310 CMR 10.04.

Compliance with Standard 2

As the Project Site is located within Land Subject to Coastal Storm Flowage, it is eligible for a waiver of this standard.

Standard 3

Loss of annual recharge to groundwater shall be eliminated or minimized through the use of infiltration measures, including environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from pre-development conditions based on soil type.

Compliance with Standard 3

The onsite soils are primarily urban fill, which is an unclassified mixture of native soils, gravel, and assorted urban debris. Given the current and former industrial/marine land uses for the parcels within the proposed project limits, the extent of impervious cover, and the proximity of the project site to the Reserved Channel (Boston Harbor), the expected stormwater infiltration occurring onsite under existing conditions is minimal. For this reason, the proposed project is expected to have no more than a de minimis effect on annual groundwater recharge.

Standard 4

Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS).

Compliance with Standard 4

All stormwater runoff from the project site will be conveyed to existing stormwater outfalls. All discharges from these existing outfalls are either currently pretreated via passage through catch basins with deep sumps and oil trap hoods, followed by passage through water quality structures, or will be pretreated prior to the addition of stormwater runoff from the new gate

facilities (see Attachment A - *Stormwater Runoff Analysis and Operation and Maintenance Plan*). The existing and proposed treatment train best management practices (BMPs) will remove at least 80% of the post-construction TSS load from the project site.

Standard 5

For land uses with higher potential pollutant loads (LUHPPL), source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable.

Compliance with Standard 5

The project site will continue to be used to store cargo containers and provide truck access for container pick up. These land uses are classified as a LUHPPL under Standard 5 because they are regulated under the terms and conditions of the NPDES Multi-Sector General Permit Program. To mitigate the potential stormwater pollution generated by these uses, the site's stormwater will be conveyed for pretreatment to existing and "to be installed" proprietary water quality structures (see Attachment A - *Stormwater Runoff Analysis and Operation and Maintenance Plan*). These are acceptable for treatment of a LUHPPL under Standard 5 and the proprietary structures have been accepted under the MASTEP process. As no infiltration is proposed at this site, the LUHPPL pretreatment requirements for infiltration are not applicable. In addition to the stormwater management system, source control and pollution prevention practices will be implemented as specified in the stormwater operation and maintenance plan.

Standard 6

Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply, and stormwater discharges near or to any other critical area, require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook. A discharge is near a critical area if there is a strong likelihood of a significant impact occurring to said area, taking into account site-specific factors. Stormwater discharges to Outstanding Resource Waters and Special Resource Waters shall be removed and set back from the receiving water or wetland and receive the highest and best practical method of treatment.

Compliance with Standard 6

Stormwater discharges from the Project Site do not discharge to a Zone II or Interim Wellhead Protection Area of a public water supply nor to any other critical area (e.g., Outstanding Resource Waters or Special Resource Waters); accordingly, this standard is not applicable to this project.

Standard 8

A plan to control construction-related impacts including erosion, sedimentation and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.

Compliance with Standard 8

Consistent with the terms of this standard, a construction SWPPP will be prepared in compliance with the provisions of this standard and the terms and conditions of the 2017

NPDES Construction General Permit. Additional erosion and sedimentation control measures are defined herein under Construction Activities.

Standard 9

A long-term operation and maintenance plan shall be developed and implemented to ensure that stormwater management systems function as designed.

Compliance with Standard 9

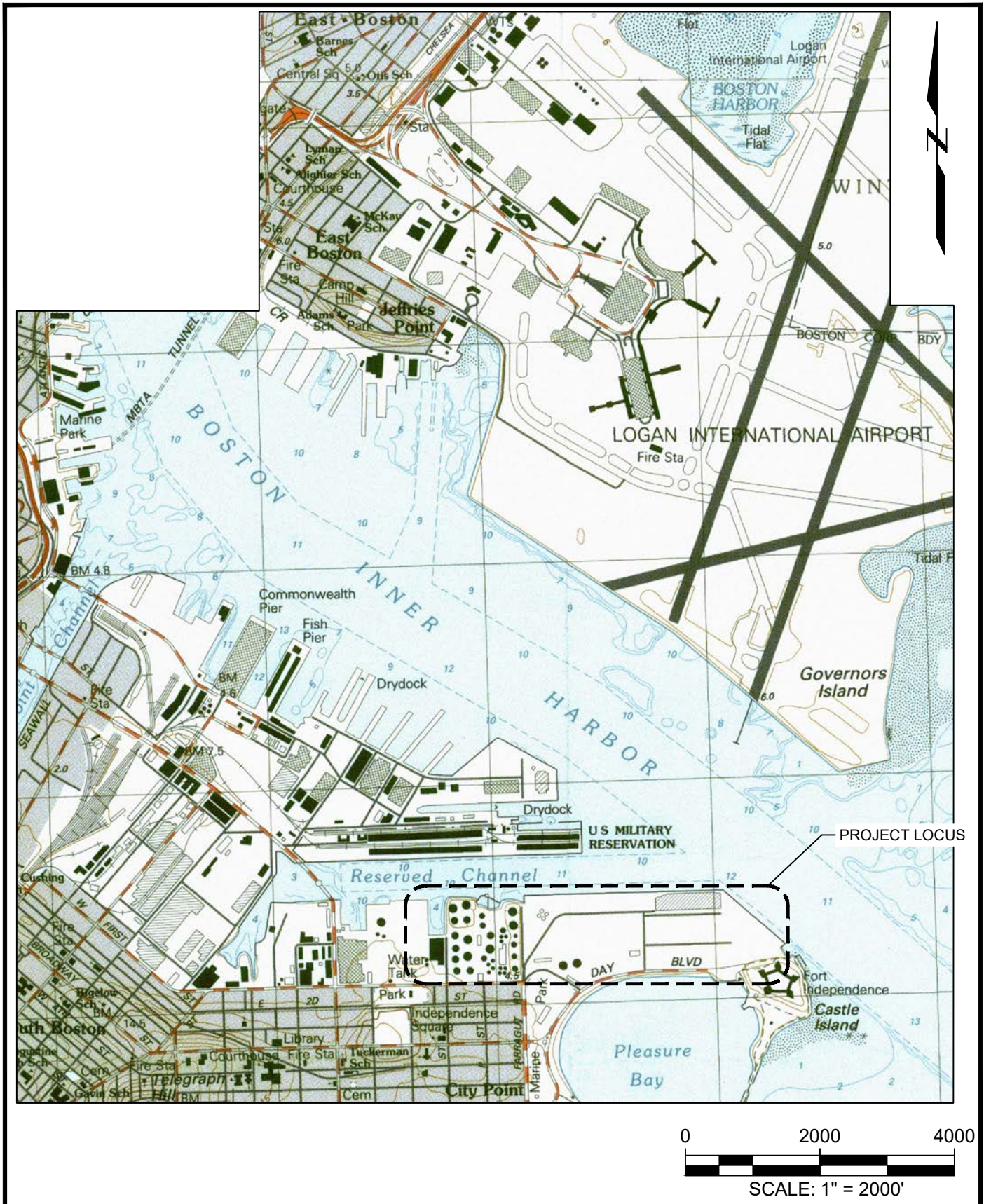
A long-term operation and maintenance plan has been developed (see Attachment A - *Stormwater Runoff Analysis and Operation and Maintenance Plan*) and will be implemented as specified therein.

Standard 10

All illicit discharges to the stormwater management system are prohibited.

Compliance with Standard 10

No illicit discharges to the existing stormwater management system are known to be occurring and none are proposed.



NOTICE OF INTENT
 NEW GATE PROCESSING FACILITIES
 CONLEY TERMINAL

MASSPORT
 SOUTH BOSTON, MA

GEI Consultants

Project 1900406

USGS LOCUS PLAN

MARCH 2021

Fig. A

National Flood Hazard Layer FIRMette

71°02.4'W 42°20'35"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*

Future Conditions 1% Annual Chance Flood Hazard *Zone X*

Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*

Area with Flood Risk due to Levee *Zone D*

OTHER AREAS OF FLOOD HAZARD

NO SCREEN *Zone X*

Area of Minimal Flood Hazard *Zone X*

Effective LOMRMs

Area of Undetermined Flood Hazard *Zone D*

OTHER AREAS

Channel, Culvert, or Storm Sewer

Levee, Dike, or Floodwall

GENERAL STRUCTURES

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/22/2021 at 5:02 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map; Data refreshed October, 2020

71°02.4'W 42°20'35"N

National Flood Hazard Layer FIRMette

71°1'44"W 42°20'37"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS



0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile **Zone X**



OTHER AREAS OF FLOOD HAZARD

OTHER AREAS

NO SCREEN **Zone X**
 Area of Minimal Flood Hazard **Zone X**
 Effective LOMR **Zone D**
 Area of Undetermined Flood Hazard **Zone D**

GENERAL STRUCTURES

Channel, Culvert, or Storm Sewer
 Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance

Water Surface Elevation
 Coastal Transect
 Base Flood Elevation Line (BFE)
 Limit of Study

OTHER FEATURES

Jurisdiction Boundary
 Coastal Transect Baseline
 Profile Baseline
 Hydrographic Feature

Digital Data Available
 No Digital Data Available
 Unmapped

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71°1'6"W 42°20'11"N

Feet 1:6,000

Basemap: USGS National Map; Orthoimagery: Data refreshed October, 2020

National Flood Hazard Layer FIRMette

71°01'18"W 42°20'38"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS



0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*



Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*



OTHER AREAS OF FLOOD HAZARD



Area of Minimal Flood Hazard *Zone X*



Area of Undetermined Flood Hazard *Zone D*

OTHER AREAS



Levee, Dike, or Floodwall

GENERAL STRUCTURES



Coastal Transect



Limit of Study



Coastal Transect Baseline



Hydrographic Feature

OTHER FEATURES



No Digital Data Available



Unmapped

MAP PANELS



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The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/22/2021 at 4:57 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



71°01'18"W 42°20'38"N

Basemap: USGS National Map; Orthoimagery: Data refreshed October, 2020

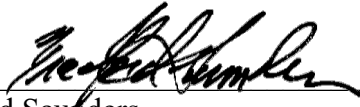
AFFIDAVIT OF SERVICE – ABUTTER NOTIFICATION

Massachusetts Wetlands Protection Act

I, Bradford Saunders, on behalf of Massport, hereby certify under the pains and penalties of perjury, that on March 26, 2021 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 and 310 CMR 10.05(4)(a) in connection with the following matter.

The filing of a Notice of Intent for the installation of new gate facilities and internal traffic distribution improvements at Conley Terminal, pursuant to the provisions of the Massachusetts Wetlands Protection Act (M.G.L. c. 131, s. 40), with the conservation commission for the municipality of Boston, Massachusetts.

The form of notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.



Bradford Saunders

3/26/21
Date



**NOTIFICATION TO ABUTTERS
BOSTON CONSERVATION COMMISSION**

In accordance with the Massachusetts Wetlands Protection Act, Massachusetts General Laws Chapter 131, Section 40, you are hereby notified as an abutter to a project filed with the Boston Conservation Commission.

- A. Massport has filed a Notice of Intent with the Boston Conservation Commission seeking permission to alter an Area Subject to Protection under the Wetlands Protection Act (General Laws Chapter 131, section 40).
- B. The address of the lot where the activity is proposed is 20 Farragut Road, South Boston, MA 02127 .
- C. The project involves the installation of new gate facilities and internal operations modifications at the Conley Terminal.
- D. Copies of the notice of Intent may be obtained by contacting the Boston Conservation Commission at CC@boston.gov.
- E. Copies of the Notice of Intent may be obtained from GEI Consultants, Inc. by calling 774-277-6020 between the hours of 8:00 AM and 5:00 PM, Monday through Friday.
- F. In accordance with the Commonwealth of Massachusetts Executive Order Suspending Certain Provisions of the Open Meeting Law, the public hearing will take place **virtually** at <https://zoom.us/j/6864582044>. If you are unable to access the internet, you can call 1-929-205-6099, enter Meeting ID 686 458 2044 # and use # as your participant ID.
- G. Information regarding the date and time of the public hearing may be obtained from the **Boston Conservation Commission** by emailing CC@boston.gov or calling **(617) 635-3850** between the hours of **9 AM to 5 PM, Monday through Friday**.

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the **Boston Herald**.

NOTE: Notice of the public hearing, including its date, time, and place, will be posted on www.boston.gov/public-notices and in Boston City Hall not less than forty-eight (48) hours in advance.

NOTE: If you would like to provide comments, you may attend the public hearing or send written comments to CC@boston.gov or Boston City Hall, Environment Department, Room 709, 1 City Hall Square, Boston, MA 02201

NOTE: You also may contact your local Conservation Commission or the Department of Environmental Protection Northeast Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call: the Northeast Region: (978) 694-3200.

PID	OWNER	ADDRESSEE	STREET ADDRESS	CITY STATE	ZIP
603411000	MASSACHUSETTS PORT	MASSACHUSETTS PORT	ONE HARBORSIDE DR STE-200S	EAST BOSTON MA	2128
603411010	MASS PORT AUTHORITY	MASS PORT AUTHORITY	ONE HARBORSIDE DR	EAST BOSTON MA	2128
603413000	CITY OF BOSTON	CITY OF BOSTON	FARRAGUT RD	SOUTH BOSTON MA	2127
603415000	COMMONWLTH OF MASS	COMMONWLTH OF MASS	1889 WM J DAY BLVD	SOUTH BOSTON MA	2127
603416000	COMMONWLTH OF MASS	COMMONWLTH OF MASS	FARRAGUT RD	SOUTH BOSTON MA	2127
603417000	COMMWLTH OF MASS	COMMWLTH OF MASS	20 FARRAGUT RD	SOUTH BOSTON MA	2127
603418000	COMMONWLTH OF MASS	COMMONWLTH OF MASS	WM J DAY BLVD	SOUTH BOSTON MA	2127
603418001	COMMWLTH OF MASS	COMMWLTH OF MASS	WM J DAY BLVD	SOUTH BOSTON MA	2127
603418002	COMMWLTH OF MASS	COMMWLTH OF MASS	CASTLE ISLAND TRM27	SOUTH BOSTON MA	2127
603418030	SULLIVAN DANIEL F LEASEE	SULLIVAN DANIEL F LEASEE	24 CABOT ST	MILTON MA	2186
603924000	ADMIRAL FARRAGUT LLC	ADMIRAL FARRAGUT LLC	60 K ST	SOUTH BOSTON MA	2127

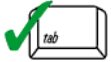




Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the [Massachusetts Stormwater Handbook](#). The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

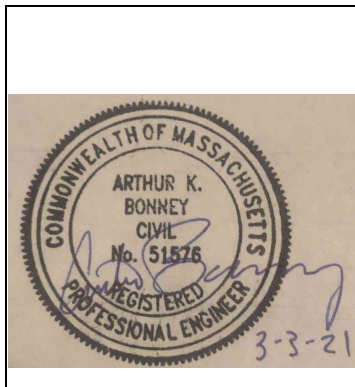
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



03 03 2021

Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- New development
- Redevelopment
- Mix of New Development and Redevelopment



Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- No disturbance to any Wetland Resource Areas
- Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- Reduced Impervious Area (Redevelopment Only)
- Minimizing disturbance to existing trees and shrubs
- LID Site Design Credit Requested:
 - Credit 1
 - Credit 2
 - Credit 3
- Use of "country drainage" versus curb and gutter conveyance and pipe
- Bioretention Cells (includes Rain Gardens)
- Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- Treebox Filter
- Water Quality Swale
- Grass Channel
- Green Roof
- Other (describe): _____

Standard 1: No New Untreated Discharges

- No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

- Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- Soil Analysis provided.
- Required Recharge Volume calculation provided.
- Required Recharge volume reduced through use of the LID site Design Credits.
- Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - Static
 - Simple Dynamic
 - Dynamic Field¹
- Runoff from all impervious areas at the site discharging to the infiltration BMP.
- Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - Site is comprised solely of C and D soils and/or bedrock at the land surface
 - M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - Solid Waste Landfill pursuant to 310 CMR 19.000
 - Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

- The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
 - Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
 - is within the Zone II or Interim Wellhead Protection Area
 - is near or to other critical areas
 - is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - involves runoff from land uses with higher potential pollutant loads.
 - The Required Water Quality Volume is reduced through use of the LID site Design Credits.
 - Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

- The BMP is sized (and calculations provided) based on:
 - The ½" or 1" Water Quality Volume or
 - The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- The NPDES Multi-Sector General Permit does **not** cover the land use.
- LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- All exposure has been eliminated.
- All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - Limited Project
 - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - Bike Path and/or Foot Path
- Redevelopment Project
- Redevelopment portion of mix of new and redevelopment.
- Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- The project is **not** covered by a NPDES Construction General Permit.
- The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - Name of the stormwater management system owners;
 - Party responsible for operation and maintenance;
 - Schedule for implementation of routine and non-routine maintenance tasks;
 - Plan showing the location of all stormwater BMPs maintenance access areas;
 - Description and delineation of public safety features;
 - Estimated operation and maintenance budget; and
 - Operation and Maintenance Log Form.
- The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

- The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- An Illicit Discharge Compliance Statement is attached;
- NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.

ATTACHMENT A
STORMWATER RUNOFF ANALYSIS AND
OPERATIONS AND MAINTENANCE PLAN



Stormwater Runoff Analysis and Operation and Maintenance Plan

Conley Terminal

New Conley In-Gate & Out-Gate Facilities

Massport Project No. M560-D1

South Boston, MA

March 10, 2021

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- 1. HYDROCAD CALCULATIONS**
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PROJECT DESCRIPTION

Existing Conditions

The project site is located at the Massachusetts Port Authority's (Massport) Paul W. Conley Container Terminal in South Boston (Suffolk County), Massachusetts. The terminal and project site are bordered by the Boston Harbor Reserved Channel to the north and E 1st Street and Harbor Island Causeway to the south. The work being performed for this project will be contained to this area and no other sites are included for this project. Refer to project site locus plan (Figure 1). This site is owned by Massport and no other entities.

Site Operations

The Paul W. Conley Container Terminal is located south of the Boston Harbor Reserved Channel and covers approximately 100 acres. There are two active ship berths along the Reserved Channel served by ship-to-shore cranes. An additional ship berth is currently under construction on the western side of the terminal and is anticipated to be operational in fall 2021. Import and export containers are stacked and handled by rubber tire gantry cranes (RTGs), which move parallel to the berth. Containers are transported from the stacks to the ship (and vice versa) via yard tractor trailer trucks and from the street to the stacks (and vice versa) via street trucks. Inbound (export) and outbound (import) containers pass through the terminal gate complex, which is on the south side of the Terminal, via the entrance/exit gate at the corner of Farragut Road and East First Street. Conley Terminal is almost entirely 100% impervious pavement and buildings.

Site Topography


Site topography within the project corridor is generally sloping northerly from the curb line of the Dedicated Freight Corridor towards the Reserved Channel. Surface gradients are generally flat, indicative of prior and current marine/industrial land uses. A portion of the proposed freight corridor will be located within the 100-ft Buffer to the Reserved Channel, and as such appropriate temporary erosion control measures will be utilized throughout the project construction duration.

Soils

A review of the Soil Survey for Norfolk and Suffolk Counties, Massachusetts conducted by the USDA Natural Resources Conservation Service (NRCS) indicates Urban land, wet substratum and Udorthents, wet substratum as the two primary soils onsite. These soils are generally comprised of a mixture of urban fill and native soils such that determination of their Hydrologic Soil Group (HSG) classifications is not practical. As such, a B/C classification was used for the hydrologic model employing HydroCAD included in this study. Refer to the appendix for the NRCS Soils Map of the project site.

Existing Conditions Plan



 <p>HDR Engineering, Inc. 99 HIGH ST, SUITE 2300 BOSTON, MA 02110 (617) 357-7700 www.hdrinc.com</p>	<p>PLAN TITLE EXISTING CONDITIONS PLAN</p>	<p>DATE: 2/26/21 SCALE: 1"=500'</p>
	<p>PROJECT NEW CONLEY IN-GATE & OUT-GATE FACILITIES</p>	<p>FIGURE FIG. 1</p>

LEGEND

-  NORTH
-  OFA EXISTING OUTFALL
-  OFA PROJECT LIMIT BOUNDARY

Proposed Design

The overall Conley Terminal Improvements program consists of three main elements:

- Dedicated Freight Corridor
- In-Gate & Out-Gate Processing Areas
- Berth 11 & 12 Reconstruction

This Stormwater Runoff Analysis addresses the first two elements which are presently undergoing final design and permitting, and which will be constructed in the 2021-2022 timeframe. The third element (Berth 11 & 12 Reconstruction) is an independent design and permitting process and is scheduled to follow a similar construction schedule to the first two elements of 2021-2022 timeframe. It should be noted that the purpose of this report is to support the DFC and In-Out Gate facility construction permitting. Because of this focus, the future planned changes to Conley Terminal to be made by the Berth 11 and 12 project is not reflected in this report.

Dedicated Freight Corridor (DFC)

The project proposes to construct the Dedicated Freight Corridor (DFC) roadway to connect the gate processing facilities and provide access to container stacks within Conley Terminal. The DFC is a 5,000 foot long roadway built to safely accommodate freight traffic separated from other traffic (such as cars and light trucks). This new roadway will replace the existing paved access to the site. This new upgraded roadway will connect freight and container trucks entering and exiting Conley Terminal to Summer Street to the west. The roadway will direct trucks to the In-Gate and Out-Gate processing locations.

The changes proposed to support the DFC involve asphalt resurfacing, resurfacing with lane widening, and full depth pavement construction. The project will reuse the west 500 feet of existing access roadway and install a new median island to separate vehicles accessing the Out-Gate facility from general purpose traffic. Heading east, the existing roadway will be resurfaced and widened for a length of approximately 1,000 feet. The existing roadway profile grades will be maintained (within the construction limits of asphalt milling and resurfacing). The Out-Gate OCR facility will be constructed to the north of this area. For this segment of roadway,

The roadway section then changes and the roadway construction will consist of partial and full depth reconstruction of the existing paved surfaces and extend for approximately 1,100 feet. This work will repurpose existing asphalt surfaces which consist of terminal staff parking lots and access side roads. Adjacent to the DFC, to the south, the In-Gate OCR facility will be constructed and to the north an existing parking lot will be expanded with new pavement markings applied. The roadway will follow the existing profile grades and some minor modifications are proposed to promote positive drainage.

Following the In-Gate OCR, the DFC roadway will be constructed within the limits of existing impervious surface and construction will involve a combination of asphalt milling and surfacing and full depth construction. This portion of roadway will extend for approximately 2,100 feet

connecting to the In-Gate facility. The roadway will follow the existing profile grades and some minor modifications are proposed to promote positive drainage.

In-Gate and Out-Gate Facilities

The project will construct two separate facilities to support secure access to and from the Conley Container Terminal. Each facility consists of two separate areas, the Optical Character Recognition (OCR) facility and the Gate facility. The gate facilities will be located within existing impervious surfaces. The facilities consist of structures supported by a concrete foundation. The structures allow for container trucks to securely access or exit the facility. They have been designed to not include a roof system. A description of the locations of the gate facilities is provided below and their locations follow the alignment of the DFC for trucks entering Conley Terminal:

In-Gate

- OCR facility – located along the DFC approximately 2,600 feet from Summer Street entrance to Conley Terminal
- In-Gate facility - located approximately 2,400 feet from the In-Gate OCR facility

Out-Gate

- Out-Gate OCR facility - located approximately 1,600 feet from the entrance to Conley Terminal
- Out-Gate facility - located approximately 500 feet west of the Out-Gate OCR and near the Summer Street Conley Terminal entrance.

Berth 11 & 12 Backlands Reconstruction

As noted above, the pavement reconstruction project for Berths 11 and 12 is a separate project and its project limits are immediately adjacent to the New Conley Terminal DFC and In-Gate & Out-Gate Facilities project. The Berth 11 and 12 Reconstruction project will provide rehabilitated pavements and improved stormwater quality. The project's drainage system is downstream of the improvements to be made to the DFC and gate processing locations. The Backlands project will provide stormwater treatment facilities to improve water quality for both the DFC and the Backlands projects.

STORMWATER MANAGEMENT STANDARDS

The proposed development has been designed in compliance with the Stormwater Management Standards issued by the Massachusetts Department of Environmental Protection (MassDEP). The Stormwater Management Standards includes ten standards for stormwater management compliance. The following is a description of how the proposed project will comply with each standard.

Standard #1

No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

Stormwater runoff will be discharged through existing outfalls A, B, 5, 6, 7, 8, 9, 10, and 11. Flow will receive treatment from proposed catch basins and deep sump manholes with sumps/oil trap hoods and existing stormwater treatment structures. The water shed areas will not be changed due to this project and as such the existing stormwater treatment structures will be utilized. These existing structures will be inspected and reconstructed as needed under the funding and construction of the Berth 11 & 12 Reconstruction project which will follow a similar construction timeframe as the New Conley Gates project. Two new stormwater treatment structures will be installed on two existing outfalls that do not contain stormwater treatment currently. These new structures will be funded and constructed under the Berth 11 & 12 Reconstruction project. With these proposed measures, the proposed project will not discharge untreated stormwater runoff to existing resource areas. Below are a list of outfalls that the project contributes to and the treatment train of the stormwater.

- Outfall A – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and an existing water quality structure.
- Outfall B – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and an existing water quality structure.
- Outfall 5 – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and a proposed water quality structure. Proposed structure to be constructed under the Backlands Project.
- Outfall 6 – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and a proposed water quality structure. Proposed structure to be constructed under the Backlands Project.
- Outfall 7 – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and a proposed quality structure. Proposed structure to be constructed under the Backlands Project.
- Outfall 8 – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and an existing water quality structure.
- Outfall 9 – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and an existing water quality structure.
- Outfall 10 – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and an existing water quality structure.
- Outfall 11 – will discharge treated stormwater. Treatment provided by deep sump catch basins and manholes and an existing water quality structure.

Standard #2

Stormwater management systems shall be designed so that post-development peak discharge rates do not exceed pre-development peak discharge rates.

The stormwater runoff calculations have been calculated in accordance with methods developed by the NRCS. Storm hydrographs were developed using the NRCS TR-20/TR-55 methodologies (incorporated into HydroCad® hydrologic modeling software) with a Type III storm distribution.

The methodologies provide for hydrologic analyses of a watershed under various combinations of land cover/use. Surface runoff hydrographs were developed from storm rainfall data using a dimensionless unit hydrograph, drainage areas, time of concentration (Tc) and NRCS runoff curve numbers (Cn).

For this analysis, hydrographs were developed to simulate storm runoff flows under pre/post development conditions for the 2, 10 and 100-year storm events (Suffolk County, 24-hour duration, 3.2, 5.0 and 7.9 inches of rainfall, respectively for the current time period and conditions). These calculations estimate the pre/post development peak runoff rates from the project site. The pre-development condition and post-development condition have similar surface cover characteristics because the project improvements repurpose existing impervious area to support the construction of the DFC and In-Gate and Out-Gate processing facilities.

Sea Level Rise

Sea level rise was considered in the design of the water quality units to be constructed under the Backlands project which will follow this project's construction schedule. Sea level rise was determined using the 2018 Massport Sustainability and Resiliency Design Standards and Guidelines. The estimated sea level rise for the year 2050, based on current prevailing conditions, was determined to be 1.2 feet. This height was selected based on the intermediate-high severity classification for climate change effects.

Pre-Development Watersheds

Watershed E01 is 2.32± acres of existing paved parking lot and roadway located at the entrance gate to the Terminal. Storm water is collected from the roadway, parking lot and buildings area drainage system and conveyed through a treatment chamber and discharged to the Reserved Channel. Watershed drains to Outfall A.

Watershed E02 is 3.36± acres of existing paved roadway and soils that are located just east of the entrance gate to the Passport Building. Stormwater runoff generally over land and infiltrates to existing soil. Watershed drains to Outfall A.

Watershed E03 is 2.20± acres of existing paved roadway, building and soil located from the Passport Building to approximately 1000 feet east. Stormwater either sheets off the asphalt and infiltrates to existing soil or is collected in a stormwater system and outlets to a dug-out pit just north of the paved areas where the water infiltrates into the existing soils. Watershed drains to Outfall B.

Watershed E04 is 1.29± acres of existing soils located south of the eastern end of Watershed E03. Stormwater infiltrates into the existing soils.

Watershed E05 is 1.32± acres of existing building and asphalt located at the existing white fuel building location. Stormwater is collected into existing structures and drains to the south outside of Conley Terminal.

Watershed E06 is 12.71± acres of existing asphalt located just west of the existing in-gate and out-gate facilities. This area extends from the sound wall on the southern edge of Conley Terminal and heads approximately 1,200 feet north to the edge of berth 12. Stormwater is collected into a drainage system and outfalls into the Reserved Channel. The stormwater does not pass through any treatment structures. Watershed drains to Outfall 6.

Watershed E07 is 8.75± acres of existing asphalt located just west of the watershed E06. This area extends from the sound wall on the southern edge of Conley Terminal and heads approximately 1,200 feet north to the edge of berth 12. Stormwater is collected into a drainage system and outfalls into the Reserved Channel. The stormwater does not pass through any treatment structures. Watershed drains to Outfall 5.

Watershed E08 is 7.20± acres of existing asphalt located just east of the existing in/out gate facilities. This area extends from the sound wall on the southern edge of Conley Terminal and heads approximately 1,200 feet north to the edge of berth 12. Stormwater is collected into a drainage system and outfalls into the Reserved Channel. The stormwater does not pass through any treatment structures. Watershed drains to Outfall 7.

Watershed E09 is 22.30± acres of existing asphalt located starting at the administration building in the south of Conley Terminal and extends approximately 1,200 feet north to the edge of berth 12/14. Stormwater is collected into a drainage system and passes through an oil/water separator before it outfalls to the Reserved Channel. Watershed drains to Outfall 8.

Watershed E10 is 13.25± acres of existing asphalt located adjacent to the east side of watershed E09 and heads north approximately 900 feet to the edge of berth 15/16. Stormwater is collected into a drainage system and passes through a stormwater treatment structure before it outfalls to the Reserved Channel. Watershed drains to Outfall 9.

Watershed E11 is 3.09± acres of existing asphalt located adjacent to the east side of watershed E10 and heads northeast approximately 800 feet to the edge of berth 16/17. Stormwater is collected into a drainage system and passes through a stormwater treatment structure before it outfalls to the Reserved Channel. Watershed drains to Outfall 10.

Watershed E12 is 10.67± acres of existing asphalt located adjacent to the southern side of watershed E09, E10 and E11 and heads east approximately 1900 feet to the edge of berth 17. Stormwater is collected into a drainage system and passes through a stormwater treatment structure before it outfalls to the Reserved Channel. Watershed drains to Outfall 11.

Post-Development Watersheds

Watershed P01 is 2.32± acres of existing paved parking lot and roadway located at the entrance gate to the Terminal. Storm water is collected from the roadway, parking lot and buildings area drainage system and conveyed through an existing drainage system to a treatment chamber and discharged to the Reserved Channel. An additional catch basin was added to collect stormwater in this watershed; however, the area does not significantly change between pre and post condition. Watershed drains to Outfall A.

Watershed P02 is 2.64± acres of resurfaced and existing asphalt roadway and soils that are located just east of the entrance gate to the Passport Building. Stormwater runoff is collected into a proposed catch basin and passes through an existing treatment chamber and discharges to the Reserved Channel. Watershed drains to Outfall A.

Watershed P03_04 is 3.27± acres of resurfaced and existing asphalt roadway, building and soil located from the Passport Building to approximately 1000 feet east. Stormwater either sheets off the asphalt and infiltrates to existing soil or is collected in an existing drainage system that is modified with proposed structures and conveys water to an existing stormwater treatment structure and outlets into the Reserved Channel. Watershed drains to Outfall B.

Watershed P05 is 1.32± acres of existing building, resurfaced and existing asphalt located at the existing white fuel building location. Stormwater is collected into existing structures and drains to the south outside of Conley Terminal. This area has not significantly changed between pre and post conditions. Watershed drains offsite.

Watershed P06 is 12.71± acres of resurfaced and existing asphalt located just west of the existing in/out gate facilities. This area extends from the sound wall on the southern edge of Conley Terminal and heads approximately 1,200 foot north to the edge of berth 12. Stormwater is collected into an existing drainage system that will have relocated and proposed structures connected into the system and outfalls into the Reserved Channel. The stormwater will pass through a proposed stormwater treatment structure. The area has not significantly changed between pre and post conditions. Watershed drains to Outfall 6.

Watershed P07 is 8.90± acres of resurfaced and existing asphalt located just west of the watershed P06. This area extends from the sound wall on the southern edge of Conley Terminal and heads approximately 1,200 foot north to the edge of berth 12. Stormwater is collected into an existing drainage system that will have relocated and proposed structures connected into the system and outfalls into the Reserved Channel. The stormwater will pass through a proposed stormwater treatment structure. Watershed drains to Outfall 5.

Watershed P08 is 7.20± acres of resurfaced and existing asphalt located just east of the existing in/out gate facilities. This area extends from the sound wall on the southern edge of Conley Terminal and heads approximately 1,200 foot north to the edge of berth 12. Stormwater is collected into an existing drainage system that will have relocated and proposed structures connected into the system and outfalls into the Reserved Channel. The stormwater will pass

through a proposed stormwater treatment structure. The area has not significantly changed between pre and post conditions. Watershed drains to Outfall 7.

Watershed P09 is 22.30± acres of resurfaced and existing asphalt located starting at the administration building in the south of Conley Terminal and extends approximately 1,200 feet north to the edge of berth 12/14. Stormwater is collected into an existing drainage system that will have relocated and proposed structures connected into the system and outfalls into the Reserved Channel. The stormwater will pass through an existing oil/water separator structure. The area has not significantly changed between pre and post conditions. Watershed drains to Outfall 8.

Watershed P010 is 13.25± acres of resurfaced and existing asphalt located adjacent to the east side of watershed P09 and heads north approximately 900 feet to the edge of berth 15/16. Stormwater is collected into an existing drainage system that will have relocated and proposed structures connected into the system and outfalls into the Reserved Channel. The stormwater will pass through an existing oil/water separator structure. The area has not significantly changed between pre and post conditions. Watershed drains to Outfall 9.

Watershed P10 is 3.09± acres of asphalt located adjacent to the east side of watershed P09 and heads northeast approximately 800 foot to the edge of berth 16/17. Stormwater is collected into an existing drainage system that will have relocated and proposed structures connected into the system and outfalls into the Reserved Channel. The stormwater will pass through an existing stormwater treatment structure. The area has not significantly changed between pre and post conditions. Watershed drains to Outfall 9.

Watershed P11 is 10.67± acres of resurfaced and existing asphalt located adjacent to the southern side of watershed P08, P09 and P10 and heads east approximately 1900 feet to the edge of berth 17. Stormwater is collected into an existing drainage system that will have relocated and proposed structures connected into the system and outfalls into the Reserved Channel. The stormwater will pass through an existing stormwater treatment structure. The area has not significantly changed between pre and post conditions. Watershed drains to Outfall 10.

Stormwater Mitigation Measures

Attenuation of peak stormwater runoff rates for each of the watersheds within the sitedirectly discharging to the Reserved Channel is not required because the Reserved Channel is a tidal water body (Boston Harbor).

Stormwater Calculations

Sizing calculations have also been included for the proposed drainpipe system utilizing the Rational Design Method and the 10-year design storm event.

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Standard #3

Loss of annual recharge to groundwater shall be eliminated or minimized through the use of infiltration measures including environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

The onsite soils are primarily urban fill which is a mixture of native soils, gravel and assorted urban debris and as such are unclassified. Given the current and former industrial/marine land uses for the parcels within the proposed project limits, the extent of impervious cover as well as the proximity to the Reserved Channel (Boston Harbor), the expected stormwater infiltration occurring onsite under existing conditions is minimal. For this reason, no supplemental infiltration facilities are proposed as part of this project.

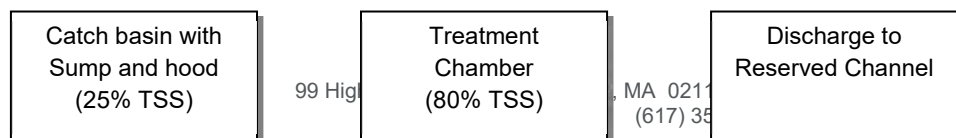
Standard #4

Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS). This Standard is met when:

- a. Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan, and thereafter are implemented and maintained;
- b. Structural stormwater best management practices are sized to capture the required water quality volume determined in accordance with the Massachusetts Stormwater Handbook; and
- c. Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook.

Treatment of stormwater runoff from the proposed freight corridor will be provided by a combination of existing and proposed structural treatment BMPs located at the outfall discharge points. Stormwater will enter into the drainage system and receive treatment from deep sump catch basins or deep sump manholes (if direct inlets are required because of utility conflicts). Stormwater will then enter into the existing trunk line drainage system and receive treatment from water quality units. Existing structural treatment BMPs will be utilized where available and appropriate. BMP inspection and rehabilitation (if required) will be undertaken under the Backlands project. Existing water quality structures will be inspected and if necessary rehabilitated, to provide appropriate treatment. Outfalls 5,6, and 7 do not have existing water quality units and will receive new hydrodynamic separators located offline, to treat stormwater before discharging to the Reserved Channel. There is no appreciable net change in impervious area for the watersheds under study and as such, the existing water quality units will be retained as appropriate. Watersheds providing flow to Outfalls, 5,6, and 7 will receive new units and they will be selected to provide treatment for the equivalent 1-inch Water Quality Volume.

The following diagram illustrates the proposed BMP treatment train:





Long-Term Pollution Prevention Plan (LTPPP)

Good Housekeeping BMPS:

Waste Materials: Debris and trash will be collected in a metal dumpster. The dumpster will meet all Municipal requirements. Surplus soil material will be removed from the site and legally disposed of. Handling, sampling, manifesting, transportation and disposal of waste material will be documented.

Hazardous Waste: Hazardous waste will be disposed of as required under local, state and federal regulations. Site personnel will be instructed regarding proper management of hazardous waste. The individual in charge of this activity will be properly trained in hazardous waste management in accordance with OSHA regulations and MassDEP regulation 310 CMR 30 and 310 CMR 40.

Sanitary Waste: Temporary sanitary waste facilities will be provided onsite. Waste will be collected as required, and in any event as required by local regulation, by a sanitary waste management contractor.

Hazardous Products: The following practices will be used to reduce the risks associated with hazardous materials onsite:

- a. All shipments will be promptly inspected to assure that products comply with requirements and items are undamaged.
- b. Products will be stored and protected in accordance with the manufacturer's instructions with seals and labels intact and legible.
- c. Products will be stored in a secure location and access to the materials will be provided to authorize personnel only.

Establish Proper Building Material Staging Areas:

- a. Material deliveries will be coordinated with installation to ensure minimum holding time for items that are hazardous, flammable, easily damaged or sensitive to deterioration.
- b. Deliveries will be scheduled to reduce long-term onsite storage prior to installation, unless written authorization is provided by the engineer.
- c. Materials stored onsite will be stored in manufacturer's original sealed containers or other packing systems complete with instruction for handling, storing, unpacking, protecting and installing.

- d. Adequate equipment and personnel will be provided to ensure materials can be safely handled.
- e. Cement and lime will be stored under a roof and off the ground to be kept completely dry at all times.
- f. Petroleum products will be stored in a secure location under control of the site superintendent.
- g. Mechanical and electrical equipment will be stored in a weatherproof structure.

Designated Washout Areas:

- a. Concrete contractors should be encouraged where possible to use the washout facilities at their own plants.
- b. Concrete washouts areas shall be established onsite with signs noting the locations. The washout area is to be inspected daily during concrete operations.
- c. Provide adequate containment for the amount of wash water that will be used.
- d. Dispose of materials properly. Concrete wastewater can be highly polluted. It is not to be discharged to any surface water or storm drain system.

Establish Proper Vehicle / Equipment Maintenance Practices:

- a. Train employees and subcontractor in proper fueling procedures (stay with vehicles during fueling, proper use of pumps, emergency shutoff valves, and such).
- b. Inspect onsite vehicles and equipment daily for leaks, equipment damage and other service problems.
- c. Clearly designate vehicle / equipment service areas away from drainage facilities and water course to prevent stormwater run-on and runoff.
- d. Use drip pans, drip cloths, or absorbent pads when replacing spent fluids.
- e. Collect all spent fluids, store in appropriate labeled containers in the proper storage areas and recycle fluids whenever possible.

Allowance for Non-Stormwater Discharges & Control Equipment/Vehicle Washing:

There will be non-permitted non-stormwater discharges associated with this project. Specifically prohibited are the discharges of process water, non-contact cooling water, vehicle wash water and sanitary wastewater via stormwater drainage systems.

Allowable non-stormwater discharges include discharges from fire-fighting activities, fire hydrant flushing, water used to wash buildings where detergent is not used, water used to control dust and uncontaminated air condition condensation.

Spill Prevention and Control Plan:

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and clean up:

- a. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- b. The Contractor shall provide a 55-gallon spill containment kit and maintain it onsite throughout the construction period.
- c. All spills will be cleaned up immediately after discovery.
- d. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- e. Spills of toxic or hazardous materials, at or greater than reportable quantities, will be reported to the appropriate state or local government agency.
- f. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- g. The Site Superintendent is the designated responsible party for day to day operations and spill cleanup procedures.

Allowable Non-Stormwater Discharge Management:

The allowable non-stormwater discharges may include the following:

- a. Discharges from fire-fighting activities.
- b. Fire hydrant flushings.
- c. Waters used to wash vehicles where detergents are not used.
- d. Water used to control dust in accordance with EPA's, CGP, Part 3, Subpart 3.4 G.
- e. Potable water including uncontaminated water line flushings.
- f. Routine external building wash down that does not use detergents.
- g. Pavement wash where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used.
- h. Uncontaminated air conditioning or compressor condensate.
- i. Uncontaminated ground water or spring water.
- j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
- k. Uncontaminated excavation dewatering.
- l. Landscape irrigation.

Non-stormwater discharges should be eliminated or reduced to the extent feasible.

- a. Water used to control dust.

Dust control will be implemented as needed once site grading has begun and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water at a rate of 300 gallons per acre or less will be performed by a mobile pressure-type distributor truck no more than three times a day during the months of May through September or whenever the dryness of the soil warrants it.

b. Uncontaminated Excavation Dewatering

Dewatering activities are not anticipated for this project due to the depth of the groundwater. If dewatering does occur, the LTPPP will be revised to address the need for appropriate BMP's.

Inspection Personnel:

Inspection must be conducted by qualified personnel. "Qualified Personnel" means a person knowledgeable in the principals and practice of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact stormwater quality and to assess the effectiveness of any sediment and erosion control measure selected to control the quality of stormwater discharges for the construction activity. Prior to construction the contractor shall submit the names of the personnel whom will be responsible for the inspections.

Inspection Schedule and Procedures:

Inspections of the site will be performed once every 7 days and within 24 hours of the end of a storm event of one-half inch or greater. The inspections will verify that all BMPs required in Sections 2 and 3 are implemented, maintained, and effectively minimizing erosion and preventing stormwater contamination from construction materials. For detailed inspection procedures, see Sections 2 and 3.

Inspections must include all areas of the site disturbed by construction activity and areas used for storage of materials that are exposed to precipitation. Inspectors must look for evidence of, or the potential for, pollutants entering the stormwater conveyance system. Sedimentation and erosion control measures identified in the LTPPP must be observed to ensure proper operation. Discharge locations must be inspected to ascertain whether erosion control measures are effective. Where discharge locations are inaccessible, nearby downstream locations must be inspected to the extent that such inspections are practicable. Locations where vehicles enter or exit the site must be inspected for evidence of offsite sediment tracking.

If corrective actions are identified during the inspections, the construction managers will be notified, and a copy of the inspection report will be submitted to them. Corrective action is to be initiated within 24 hours of the report and the maintenance completed as soon as possible or before the next storm event. In addition, the LTPPP shall be modified as necessary to include

the additional or modified BMP's designed to correct the problems identified. Revisions to the LTPPP must be completed within seven (7) calendar days following the inspection.

Standard #5

For land uses with higher potential pollutant loads, source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable. If through source control and/or pollution prevention all land uses with higher potential pollutant loads cannot be completely protected from exposure to rain, snow, snow melt, and stormwater runoff, the proponent shall use the specific structural stormwater BMPs determined by the Department to be suitable for such uses as provided in the Massachusetts Stormwater Handbook. Stormwater discharges from land uses with higher potential pollutant loads shall also comply with the requirements of the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26-53 and the regulations promulgated thereunder at 314 CMR 3.00, 314 CMR 4.00 and 314 CMR 5.00.

Some areas of the Project may contain (LUHPPLs) as defined by MassDEP. The site will continue to be used to store cargo containers and to provide truck access for container pick up. These land uses are classified as a LUHPPL under Standard 5 because they are regulated by the NPDES Multi-Sector General Permit Program.

To mitigate the potential stormwater pollution generated by the LUHPPL, the Project includes new proprietary water quality structures. These are acceptable for treatment of a LUHPPL under Standard 5 and the proprietary structure has been accepted under the MASTEP process. No infiltration is proposed on-site, therefore the pretreatment requirements for infiltration in a LUHPPL area are not applicable. In addition to the stormwater management system, the Owner will also implement source control and pollution prevention practices (outlined in the enclosed Long-Term Pollution Prevention and Stormwater Operation and Maintenance Plan).

Standard #6

Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply, and stormwater discharges near or to any other critical area, require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook. A discharge is near a critical area if there is a strong likelihood of a significant impact occurring to said area, taking into account site-specific factors. Stormwater discharges to Outstanding Resource Waters and Special Resource Waters shall be removed and set back from the receiving water or wetland and receive the highest and best practical method of treatment. A "storm water discharge" as defined in 314 CMR 3.04(2)(a)1 or (b) to an Outstanding Resource Water or Special Resource Water shall comply with 314 CMR 3.00 and 314 CMR 4.00. Stormwater discharges to a Zone I or Zone A are prohibited unless essential to the operation of a public water supply.

The proposed project does not discharge to a “critical area”. The proposed stormwater management system was designed to treat 1.0-inch of WQV.

Standard #7

A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural best management practice requirements of Standards 4, 5, and 6. Existing stormwater discharges shall comply with Standard 1 only to the maximum extent practicable. A redevelopment project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions.

The proposed project is a redevelopment of both current and previously developed industrial/marine parcels. All standards have been met to the maximum extent practicable and the proposed project design components represent a significant improvement over existing conditions. The project includes deep sump manholes and catch basins with hoods to improve stormwater quality throughout the site.

Standard #8

A plan to control construction-related impacts including erosion, sedimentation and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.

Downslope areas will be protected through the installation of a combination of compost filter-tube and filter fabric fence to be located along the perimeter and/or elsewhere as required to protect and stabilize earthworks. Refer to the Operation and Maintenance Plan appended to the report.

Standard #9

A long-term operation and maintenance plan shall be developed and implemented to ensure that stormwater management systems function as designed.

The site shall be maintained by the Owner to provide a stabilized, maintained surface thereby preventing excess materials from contacting surface runoff and minimizing transport of materials within the drain system. Refer to the Operation and Maintenance Plan.

Standard #10

All illicit discharges to the stormwater management system are prohibited.

The proposed project does not have any known or proposed illicit discharges to the proposed stormwater management system within the scope and limits of work.

SILTATION CONTROL PROCEDURES

Downgradient areas will be protected through the installation of a combination of compost filter tubes and/or filter fabric fence to be located along the perimeter and/or elsewhere as required to

protect and stabilize earthwork. All embankment slopes will be fine graded and stabilized by the means of wood chip mulch, shrubs, sod and/or seed and mulch as is appropriate. All pipe drains and drainage structures will be installed early in the construction period to provide early control of site runoff. Crushed stone will be applied to stabilize select areas per the standard details, as required during the course of construction. The erosion controls are further described in the Operation and Maintenance Plan located in the appendix.

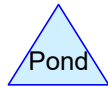
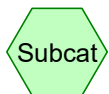
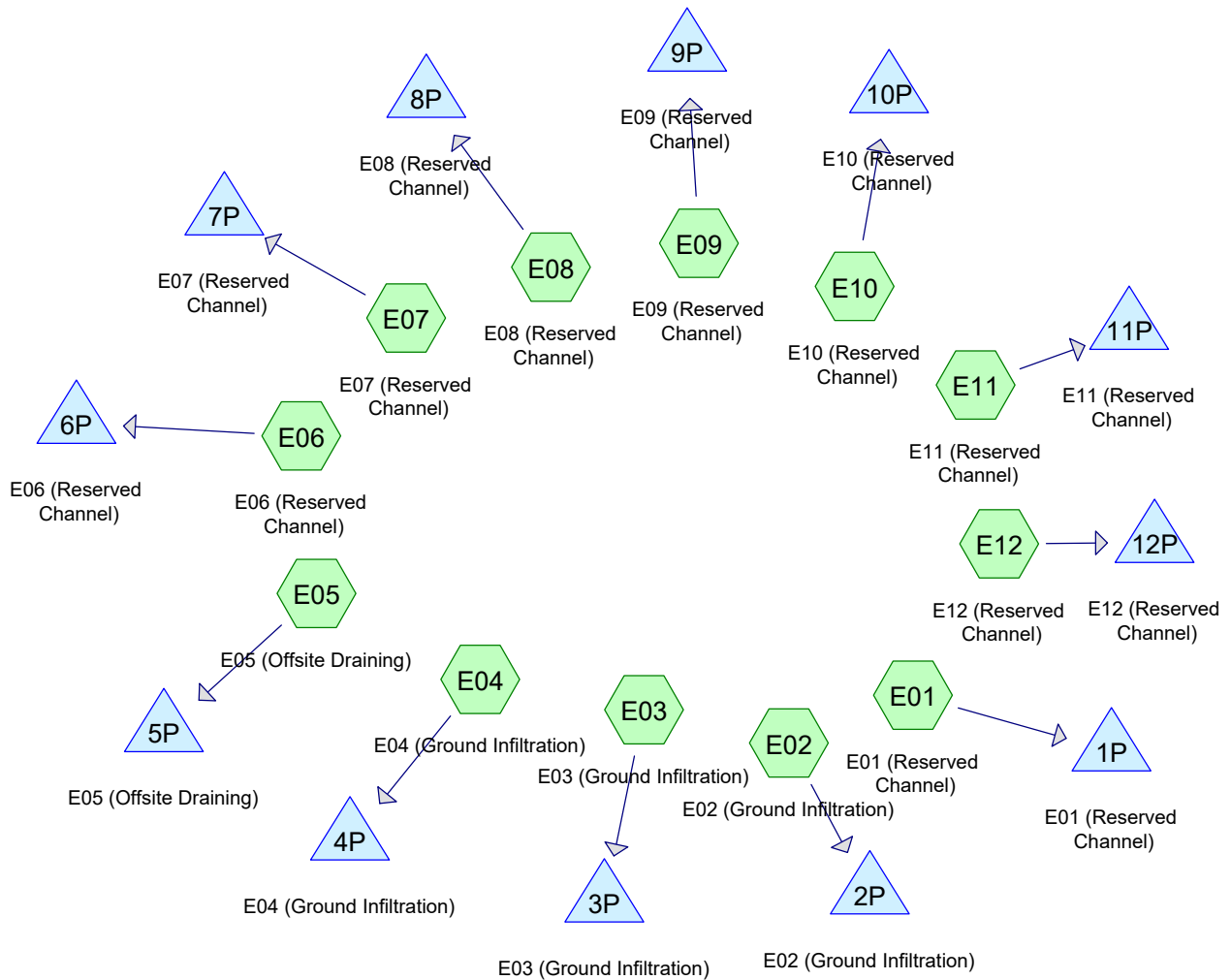
SUMMARY AND CONCLUSION

The proposed New Conley In-Gate and Out-Gate project will fully comply with the standards established by the Boston Water and Sewer Commission and the MassDEP Stormwater Management Regulations when the improvements from the Backlands project are constructed following this project. As such, there will be no adverse impact to any municipal storm drainage systems or downstream receiving areas.



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HYDROCAD CALCULATIONS



Routing Diagram for Conley Terminal Existing Drainage Areas

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Conley Terminal_Existing Drainage Areas

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
4.04	94	Fallow, bare soil, HSG D (E02, E03, E04)
84.42	98	Paved parking, HSG B (E01, E02, E03, E04, E05, E06, E07, E08, E09, E10, E11, E12)
88.46	98	TOTAL AREA

Conley Terminal_Existing Drainage Areas

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.00	HSG A	
84.42	HSG B	E01, E02, E03, E04, E05, E06, E07, E08, E09, E10, E11, E12
0.00	HSG C	
4.04	HSG D	E02, E03, E04
0.00	Other	
88.46		TOTAL AREA

Conley Terminal_Existing Drainage Areas

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.00	0.00	0.00	4.04	0.00	4.04	Fallow, bare soil	E02, E03, E04
0.00	84.42	0.00	0.00	0.00	84.42	Paved parking	E01, E02, E03, E04, E05, E06, E07, E08, E09, E10, E11, E12
0.00	84.42	0.00	4.04	0.00	88.46	TOTAL AREA	

Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 2-Year Rainfall=3.20"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentE01: E01 (Reserved)	Runoff Area=2.32 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=7.5 cfs 0.574 af
SubcatchmentE02: E02 (Ground Infiltration)	Runoff Area=3.36 ac 27.08% Impervious Runoff Depth=2.64" Tc=7.0 min CN=95 Runoff=9.5 cfs 0.741 af
SubcatchmentE03: E03 (Ground Infiltration)	Runoff Area=2.20 ac 73.64% Impervious Runoff Depth=2.86" Tc=7.0 min CN=97 Runoff=6.5 cfs 0.524 af
SubcatchmentE04: E04 (Ground Infiltration)	Runoff Area=1.29 ac 21.71% Impervious Runoff Depth=2.64" Tc=7.0 min CN=95 Runoff=3.7 cfs 0.284 af
SubcatchmentE05: E05 (Offsite Draining)	Runoff Area=1.32 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=4.2 cfs 0.326 af
SubcatchmentE06: E06 (Reserved)	Runoff Area=12.71 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=38.2 cfs 3.143 af
SubcatchmentE07: E07 (Reserved)	Runoff Area=8.75 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=26.3 cfs 2.164 af
SubcatchmentE08: E08 (Reserved)	Runoff Area=7.20 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=21.6 cfs 1.780 af
SubcatchmentE09: E09 (Reserved)	Runoff Area=22.30 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=66.9 cfs 5.515 af
SubcatchmentE10: E10 (Reserved)	Runoff Area=13.25 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=39.8 cfs 3.277 af
SubcatchmentE11: E11 (Reserved)	Runoff Area=3.09 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=9.9 cfs 0.764 af
SubcatchmentE12: E12 (Reserved)	Runoff Area=10.67 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=32.0 cfs 2.639 af
Pond 1P: E01 (Reserved Channel)	Inflow=7.5 cfs 0.574 af Primary=7.5 cfs 0.574 af
Pond 2P: E02 (Ground Infiltration)	Inflow=9.5 cfs 0.741 af Primary=9.5 cfs 0.741 af
Pond 3P: E03 (Ground Infiltration)	Inflow=6.5 cfs 0.524 af Primary=6.5 cfs 0.524 af
Pond 4P: E04 (Ground Infiltration)	Inflow=3.7 cfs 0.284 af Primary=3.7 cfs 0.284 af

Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 2-Year Rainfall=3.20"

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Pond 5P: E05 (Offsite Draining)

Inflow=4.2 cfs 0.326 af
Primary=4.2 cfs 0.326 af

Pond 6P: E06 (Reserved Channel)

Inflow=38.2 cfs 3.143 af
Primary=38.2 cfs 3.143 af

Pond 7P: E07 (Reserved Channel)

Inflow=26.3 cfs 2.164 af
Primary=26.3 cfs 2.164 af

Pond 8P: E08 (Reserved Channel)

Inflow=21.6 cfs 1.780 af
Primary=21.6 cfs 1.780 af

Pond 9P: E09 (Reserved Channel)

Inflow=66.9 cfs 5.515 af
Primary=66.9 cfs 5.515 af

Pond 10P: E10 (Reserved Channel)

Inflow=39.8 cfs 3.277 af
Primary=39.8 cfs 3.277 af

Pond 11P: E11 (Reserved Channel)

Inflow=9.9 cfs 0.764 af
Primary=9.9 cfs 0.764 af

Pond 12P: E12 (Reserved Channel)

Inflow=32.0 cfs 2.639 af
Primary=32.0 cfs 2.639 af

Total Runoff Area = 88.46 ac Runoff Volume = 21.730 af Average Runoff Depth = 2.95"
4.57% Pervious = 4.04 ac 95.43% Impervious = 84.42 ac

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E01: E01 (Reserved Channel)

Runoff = 7.5 cfs @ 12.07 hrs, Volume= 0.574 af, Depth= 2.97"

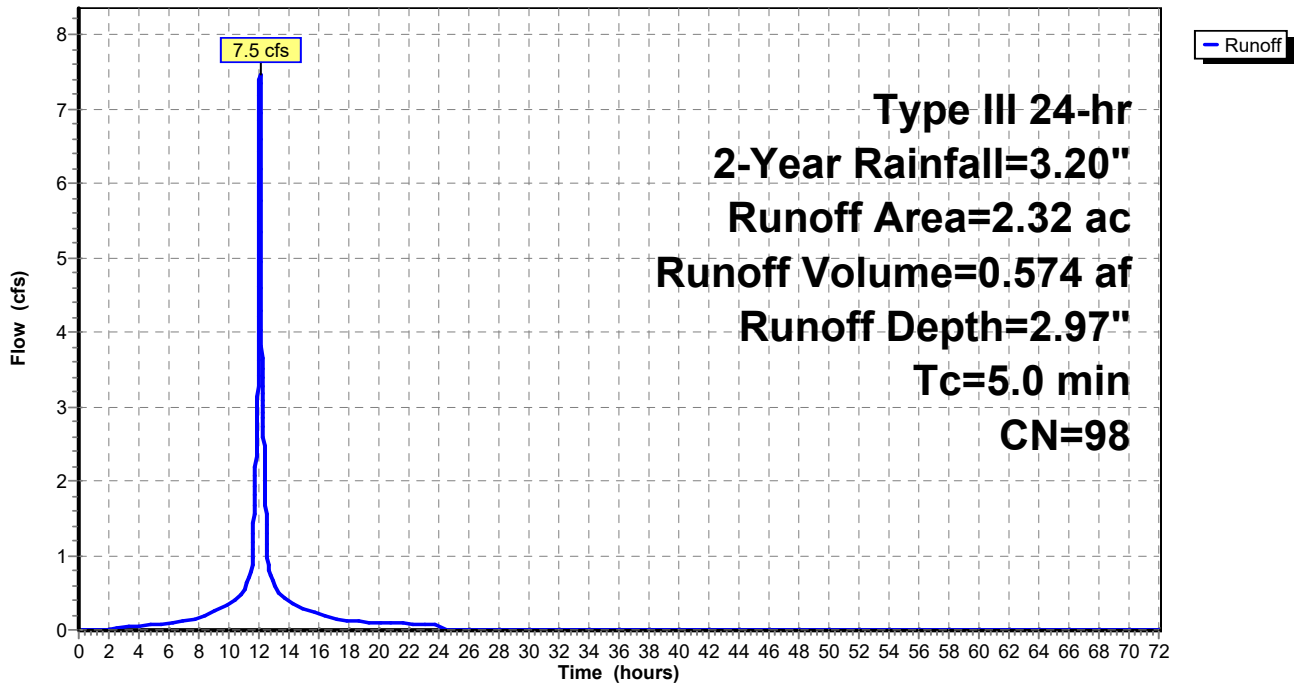
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
2.32	98	Paved parking, HSG B
2.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E01: E01 (Reserved Channel)

Hydrograph



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Hydrograph for Subcatchment E01: E01 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.1	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.1	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.1	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.1	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.2	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.2	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.3	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.5	62.00	3.20	2.97	0.0
12.00	1.60	1.38	5.0	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.6	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.4	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.3	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.2	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.2	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.1	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.1				
23.00	3.17	2.94	0.1				
24.00	3.20	2.97	0.1				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E02: E02 (Ground Infiltration)

Runoff = 9.5 cfs @ 12.10 hrs, Volume= 0.741 af, Depth= 2.64"

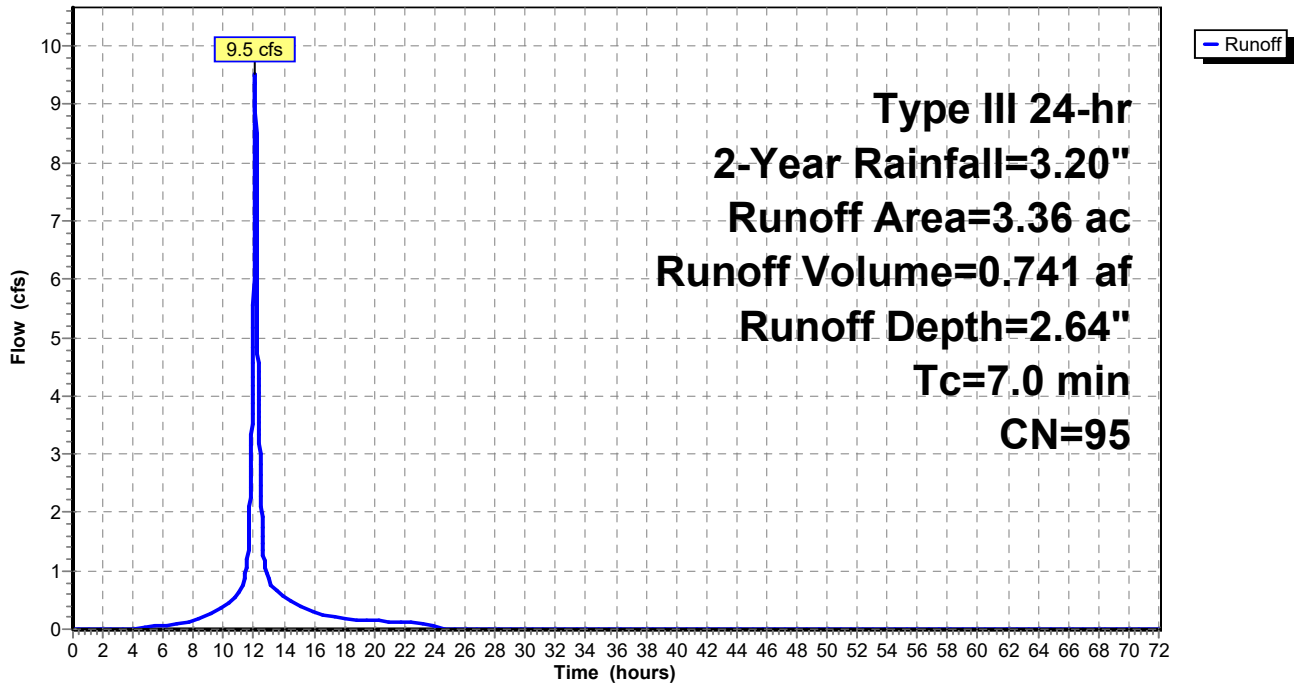
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
0.91	98	Paved parking, HSG B
2.45	94	Fallow, bare soil, HSG D
3.36	95	Weighted Average
2.45		72.92% Pervious Area
0.91		27.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E02: E02 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas*Type III 24-hr 2-Year Rainfall=3.20"*

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Hydrograph for Subcatchment E02: E02 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.64	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.64	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.64	0.0
3.00	0.10	0.00	0.0	54.00	3.20	2.64	0.0
4.00	0.14	0.00	0.0	55.00	3.20	2.64	0.0
5.00	0.18	0.01	0.0	56.00	3.20	2.64	0.0
6.00	0.23	0.02	0.1	57.00	3.20	2.64	0.0
7.00	0.29	0.05	0.1	58.00	3.20	2.64	0.0
8.00	0.36	0.09	0.1	59.00	3.20	2.64	0.0
9.00	0.47	0.15	0.3	60.00	3.20	2.64	0.0
10.00	0.60	0.24	0.4	61.00	3.20	2.64	0.0
11.00	0.80	0.40	0.6	62.00	3.20	2.64	0.0
12.00	1.60	1.11	5.6	63.00	3.20	2.64	0.0
13.00	2.40	1.87	0.9	64.00	3.20	2.64	0.0
14.00	2.60	2.06	0.5	65.00	3.20	2.64	0.0
15.00	2.73	2.19	0.4	66.00	3.20	2.64	0.0
16.00	2.84	2.29	0.3	67.00	3.20	2.64	0.0
17.00	2.91	2.36	0.2	68.00	3.20	2.64	0.0
18.00	2.97	2.42	0.2	69.00	3.20	2.64	0.0
19.00	3.02	2.47	0.2	70.00	3.20	2.64	0.0
20.00	3.06	2.51	0.1	71.00	3.20	2.64	0.0
21.00	3.10	2.55	0.1	72.00	3.20	2.64	0.0
22.00	3.14	2.58	0.1				
23.00	3.17	2.62	0.1				
24.00	3.20	2.64	0.1				
25.00	3.20	2.64	0.0				
26.00	3.20	2.64	0.0				
27.00	3.20	2.64	0.0				
28.00	3.20	2.64	0.0				
29.00	3.20	2.64	0.0				
30.00	3.20	2.64	0.0				
31.00	3.20	2.64	0.0				
32.00	3.20	2.64	0.0				
33.00	3.20	2.64	0.0				
34.00	3.20	2.64	0.0				
35.00	3.20	2.64	0.0				
36.00	3.20	2.64	0.0				
37.00	3.20	2.64	0.0				
38.00	3.20	2.64	0.0				
39.00	3.20	2.64	0.0				
40.00	3.20	2.64	0.0				
41.00	3.20	2.64	0.0				
42.00	3.20	2.64	0.0				
43.00	3.20	2.64	0.0				
44.00	3.20	2.64	0.0				
45.00	3.20	2.64	0.0				
46.00	3.20	2.64	0.0				
47.00	3.20	2.64	0.0				
48.00	3.20	2.64	0.0				
49.00	3.20	2.64	0.0				
50.00	3.20	2.64	0.0				

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Summary for Subcatchment E03: E03 (Ground Infiltration)

Runoff = 6.5 cfs @ 12.10 hrs, Volume= 0.524 af, Depth= 2.86"

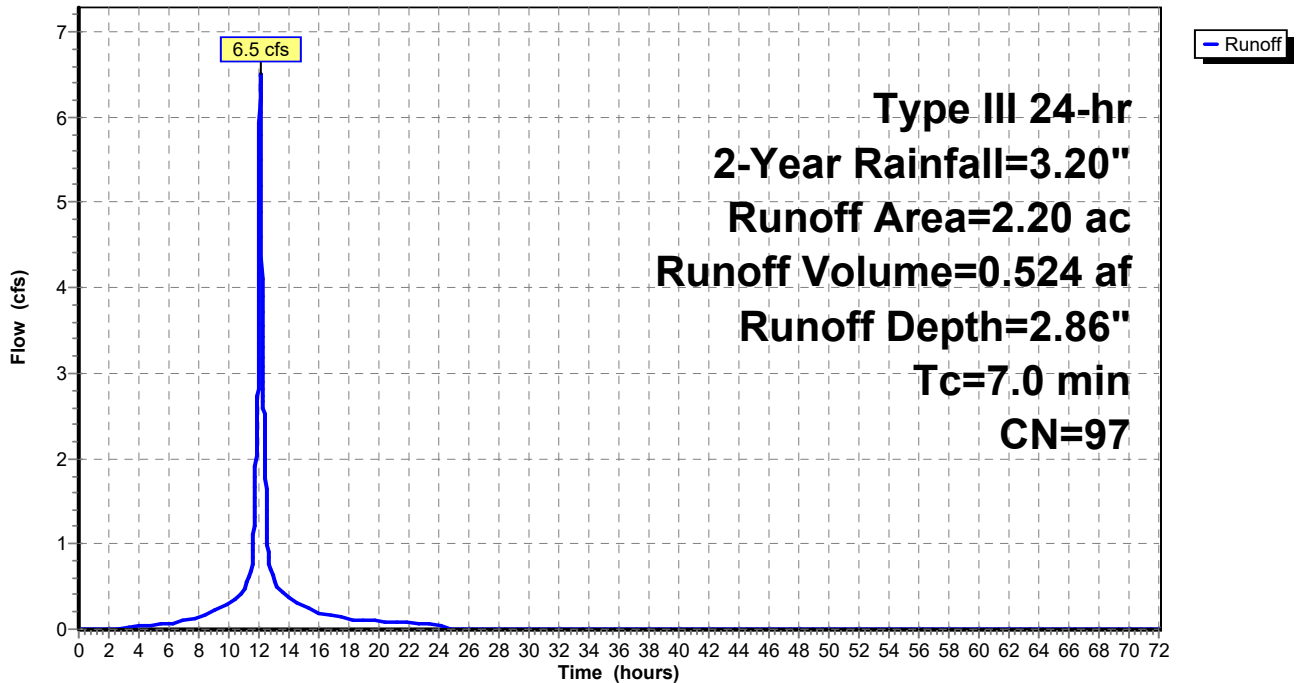
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
1.62	98	Paved parking, HSG B
0.58	94	Fallow, bare soil, HSG D
2.20	97	Weighted Average
0.58		26.36% Pervious Area
1.62		73.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E03: E03 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas*Type III 24-hr 2-Year Rainfall=3.20"*

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Hydrograph for Subcatchment E03: E03 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.86	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.86	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.86	0.0
3.00	0.10	0.00	0.0	54.00	3.20	2.86	0.0
4.00	0.14	0.01	0.0	55.00	3.20	2.86	0.0
5.00	0.18	0.03	0.0	56.00	3.20	2.86	0.0
6.00	0.23	0.06	0.1	57.00	3.20	2.86	0.0
7.00	0.29	0.10	0.1	58.00	3.20	2.86	0.0
8.00	0.36	0.15	0.1	59.00	3.20	2.86	0.0
9.00	0.47	0.23	0.2	60.00	3.20	2.86	0.0
10.00	0.60	0.35	0.3	61.00	3.20	2.86	0.0
11.00	0.80	0.52	0.5	62.00	3.20	2.86	0.0
12.00	1.60	1.28	3.8	63.00	3.20	2.86	0.0
13.00	2.40	2.06	0.6	64.00	3.20	2.86	0.0
14.00	2.60	2.26	0.4	65.00	3.20	2.86	0.0
15.00	2.73	2.39	0.3	66.00	3.20	2.86	0.0
16.00	2.84	2.50	0.2	67.00	3.20	2.86	0.0
17.00	2.91	2.57	0.2	68.00	3.20	2.86	0.0
18.00	2.97	2.63	0.1	69.00	3.20	2.86	0.0
19.00	3.02	2.68	0.1	70.00	3.20	2.86	0.0
20.00	3.06	2.72	0.1	71.00	3.20	2.86	0.0
21.00	3.10	2.76	0.1	72.00	3.20	2.86	0.0
22.00	3.14	2.80	0.1				
23.00	3.17	2.83	0.1				
24.00	3.20	2.86	0.1				
25.00	3.20	2.86	0.0				
26.00	3.20	2.86	0.0				
27.00	3.20	2.86	0.0				
28.00	3.20	2.86	0.0				
29.00	3.20	2.86	0.0				
30.00	3.20	2.86	0.0				
31.00	3.20	2.86	0.0				
32.00	3.20	2.86	0.0				
33.00	3.20	2.86	0.0				
34.00	3.20	2.86	0.0				
35.00	3.20	2.86	0.0				
36.00	3.20	2.86	0.0				
37.00	3.20	2.86	0.0				
38.00	3.20	2.86	0.0				
39.00	3.20	2.86	0.0				
40.00	3.20	2.86	0.0				
41.00	3.20	2.86	0.0				
42.00	3.20	2.86	0.0				
43.00	3.20	2.86	0.0				
44.00	3.20	2.86	0.0				
45.00	3.20	2.86	0.0				
46.00	3.20	2.86	0.0				
47.00	3.20	2.86	0.0				
48.00	3.20	2.86	0.0				
49.00	3.20	2.86	0.0				
50.00	3.20	2.86	0.0				

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Summary for Subcatchment E04: E04 (Ground Infiltration)

Runoff = 3.7 cfs @ 12.10 hrs, Volume= 0.284 af, Depth= 2.64"

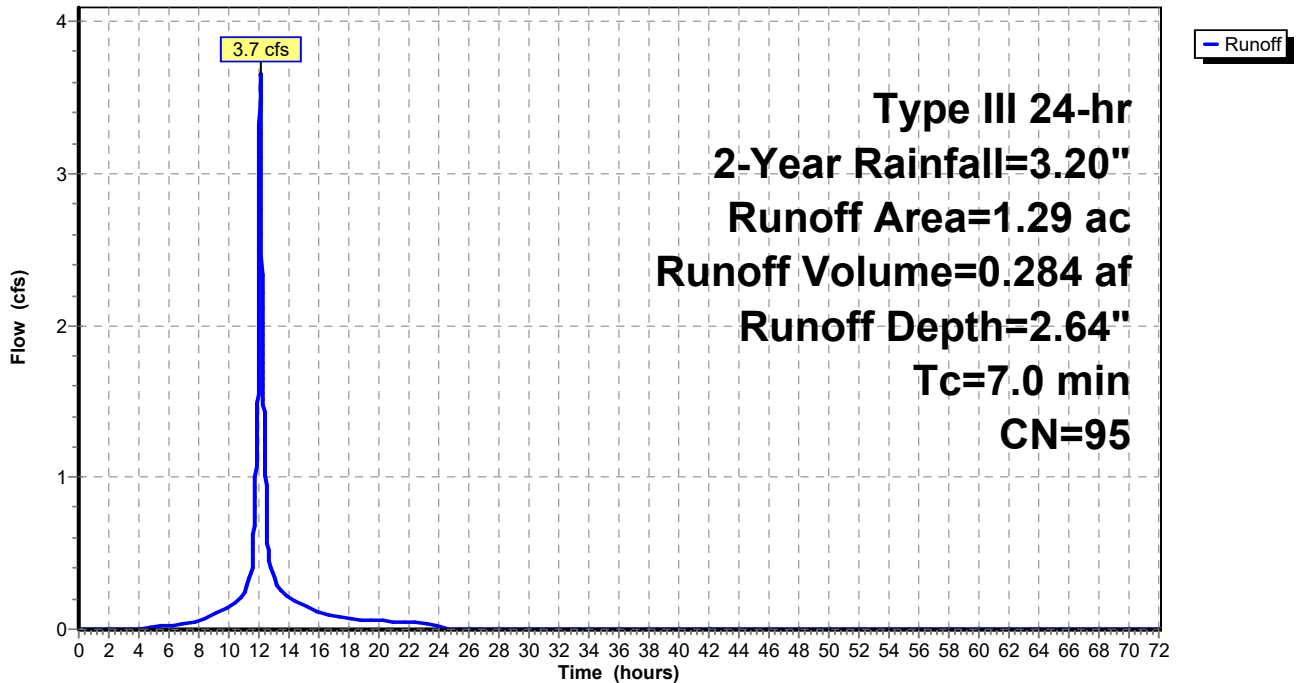
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
0.28	98	Paved parking, HSG B
1.01	94	Fallow, bare soil, HSG D
1.29	95	Weighted Average
1.01		78.29% Pervious Area
0.28		21.71% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E04: E04 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas*Type III 24-hr 2-Year Rainfall=3.20"*

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Hydrograph for Subcatchment E04: E04 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.64	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.64	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.64	0.0
3.00	0.10	0.00	0.0	54.00	3.20	2.64	0.0
4.00	0.14	0.00	0.0	55.00	3.20	2.64	0.0
5.00	0.18	0.01	0.0	56.00	3.20	2.64	0.0
6.00	0.23	0.02	0.0	57.00	3.20	2.64	0.0
7.00	0.29	0.05	0.0	58.00	3.20	2.64	0.0
8.00	0.36	0.09	0.1	59.00	3.20	2.64	0.0
9.00	0.47	0.15	0.1	60.00	3.20	2.64	0.0
10.00	0.60	0.24	0.1	61.00	3.20	2.64	0.0
11.00	0.80	0.40	0.2	62.00	3.20	2.64	0.0
12.00	1.60	1.11	2.1	63.00	3.20	2.64	0.0
13.00	2.40	1.87	0.3	64.00	3.20	2.64	0.0
14.00	2.60	2.06	0.2	65.00	3.20	2.64	0.0
15.00	2.73	2.19	0.2	66.00	3.20	2.64	0.0
16.00	2.84	2.29	0.1	67.00	3.20	2.64	0.0
17.00	2.91	2.36	0.1	68.00	3.20	2.64	0.0
18.00	2.97	2.42	0.1	69.00	3.20	2.64	0.0
19.00	3.02	2.47	0.1	70.00	3.20	2.64	0.0
20.00	3.06	2.51	0.1	71.00	3.20	2.64	0.0
21.00	3.10	2.55	0.0	72.00	3.20	2.64	0.0
22.00	3.14	2.58	0.0				
23.00	3.17	2.62	0.0				
24.00	3.20	2.64	0.0				
25.00	3.20	2.64	0.0				
26.00	3.20	2.64	0.0				
27.00	3.20	2.64	0.0				
28.00	3.20	2.64	0.0				
29.00	3.20	2.64	0.0				
30.00	3.20	2.64	0.0				
31.00	3.20	2.64	0.0				
32.00	3.20	2.64	0.0				
33.00	3.20	2.64	0.0				
34.00	3.20	2.64	0.0				
35.00	3.20	2.64	0.0				
36.00	3.20	2.64	0.0				
37.00	3.20	2.64	0.0				
38.00	3.20	2.64	0.0				
39.00	3.20	2.64	0.0				
40.00	3.20	2.64	0.0				
41.00	3.20	2.64	0.0				
42.00	3.20	2.64	0.0				
43.00	3.20	2.64	0.0				
44.00	3.20	2.64	0.0				
45.00	3.20	2.64	0.0				
46.00	3.20	2.64	0.0				
47.00	3.20	2.64	0.0				
48.00	3.20	2.64	0.0				
49.00	3.20	2.64	0.0				
50.00	3.20	2.64	0.0				

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Summary for Subcatchment E05: E05 (Offsite Draining)

Runoff = 4.2 cfs @ 12.07 hrs, Volume= 0.326 af, Depth= 2.97"

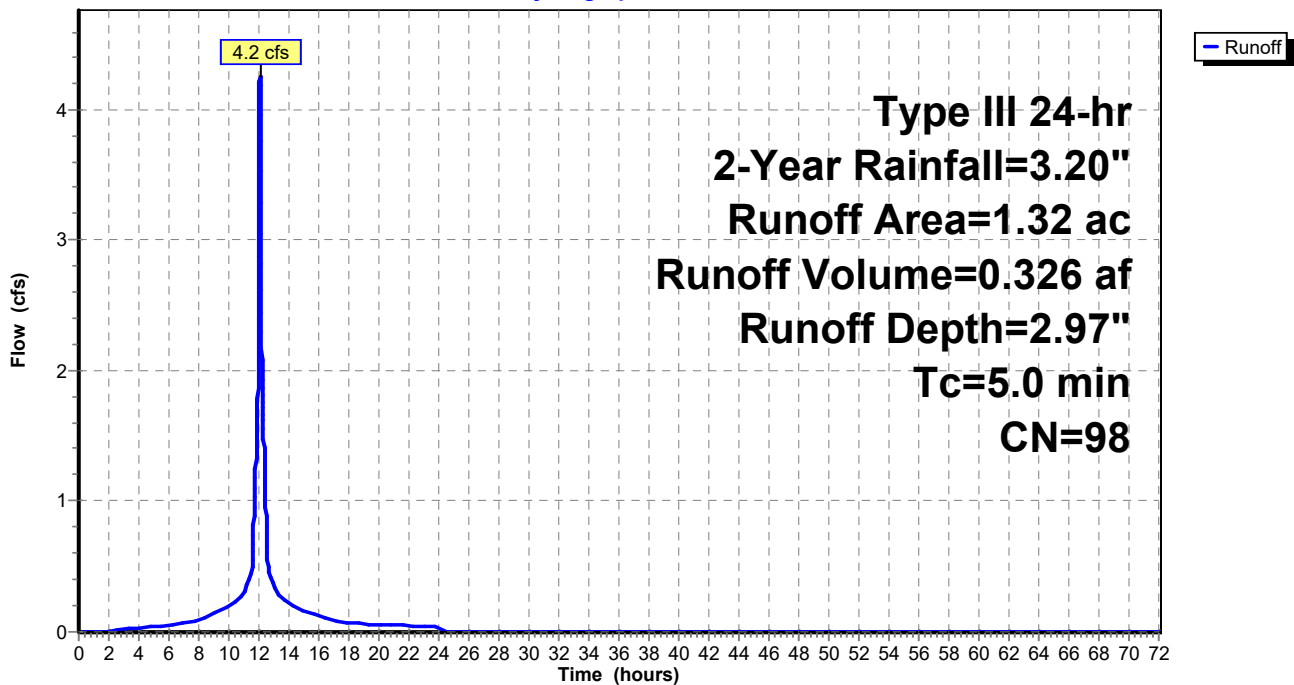
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
1.32	98	Paved parking, HSG B
1.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E05: E05 (Offsite Draining)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E05: E05 (Offsite Draining)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.0	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.0	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.0	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.1	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.1	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.1	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.2	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.3	62.00	3.20	2.97	0.0
12.00	1.60	1.38	2.9	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.3	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.2	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.2	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.1	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.1	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.1	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.0				
23.00	3.17	2.94	0.0				
24.00	3.20	2.97	0.0				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E06: E06 (Reserved Channel)

Runoff = 38.2 cfs @ 12.10 hrs, Volume= 3.143 af, Depth= 2.97"

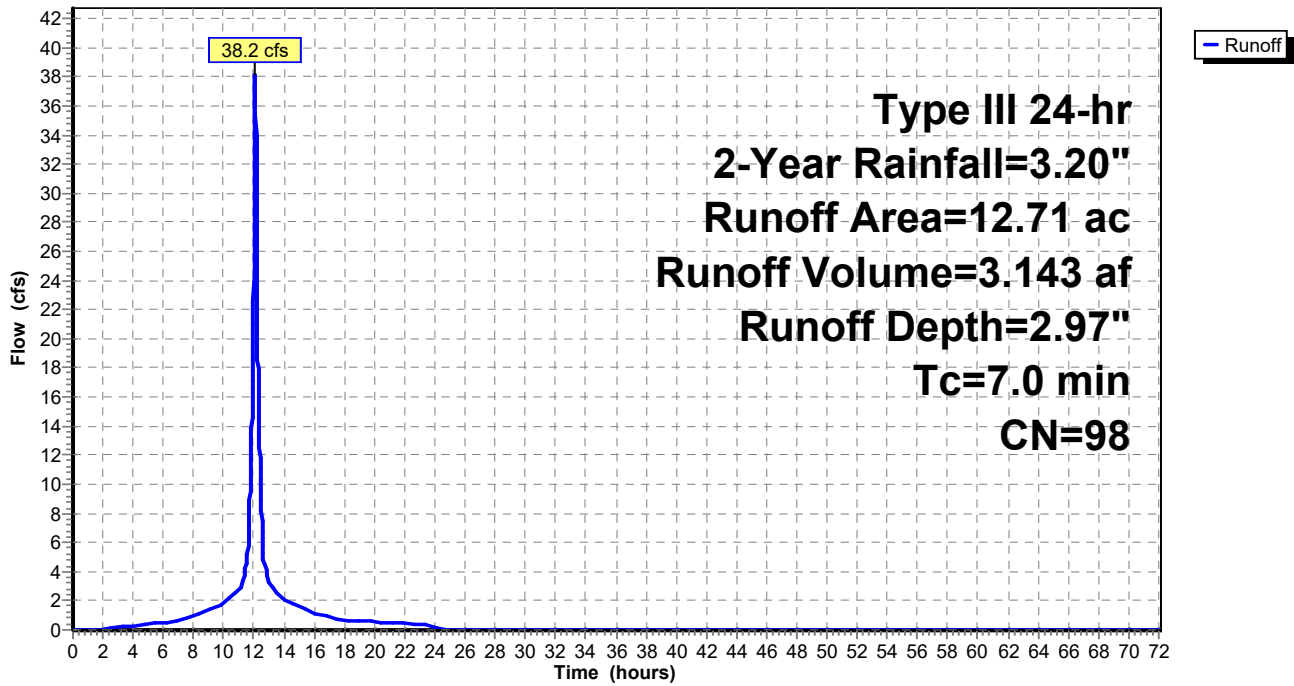
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
12.71	98	Paved parking, HSG B
12.71		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E06: E06 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

Type III 24-hr 2-Year Rainfall=3.20"

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Hydrograph for Subcatchment E06: E06 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.2	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.3	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.4	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.5	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.7	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.9	59.00	3.20	2.97	0.0
9.00	0.47	0.29	1.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.8	61.00	3.20	2.97	0.0
11.00	0.80	0.60	2.8	62.00	3.20	2.97	0.0
12.00	1.60	1.38	22.6	63.00	3.20	2.97	0.0
13.00	2.40	2.17	3.4	64.00	3.20	2.97	0.0
14.00	2.60	2.37	2.1	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.6	66.00	3.20	2.97	0.0
16.00	2.84	2.60	1.1	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.9	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.7	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.6	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.5	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.5	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.4				
23.00	3.17	2.94	0.4				
24.00	3.20	2.97	0.4				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E07: E07 (Reserved Channel)

Runoff = 26.3 cfs @ 12.10 hrs, Volume= 2.164 af, Depth= 2.97"

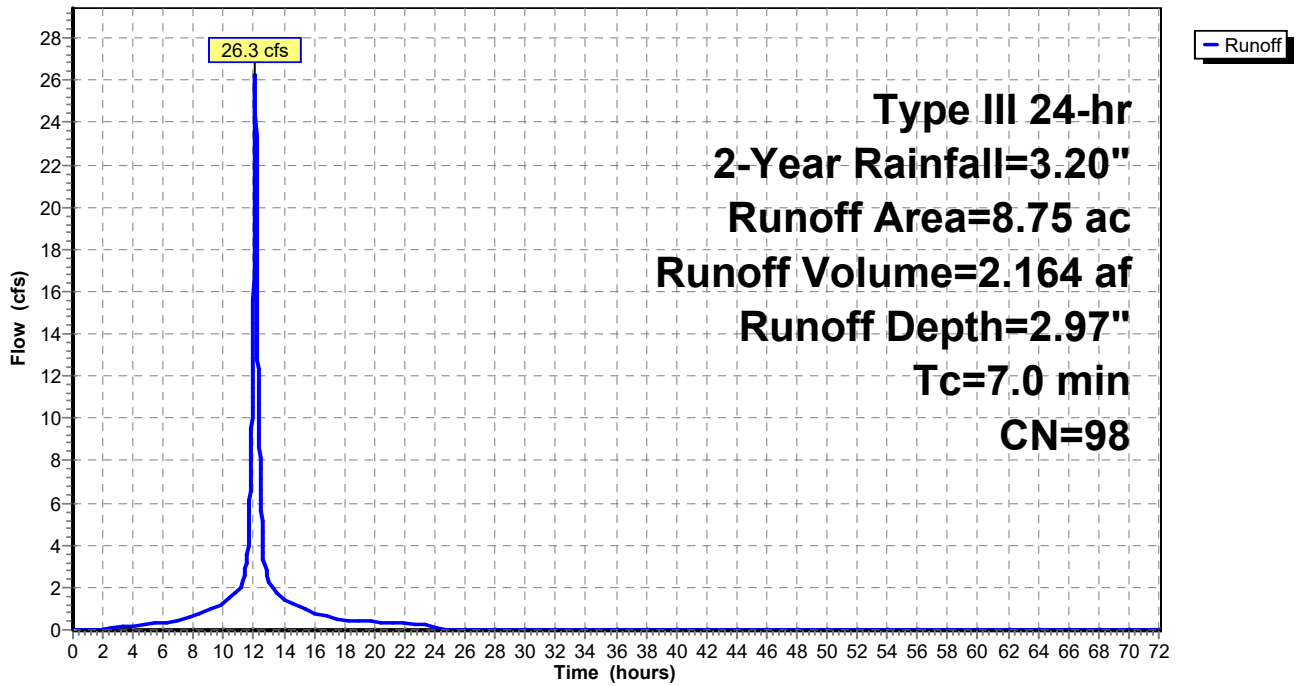
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
8.75	98	Paved parking, HSG B
8.75		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E07: E07 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

Type III 24-hr 2-Year Rainfall=3.20"

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Hydrograph for Subcatchment E07: E07 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.1	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.2	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.3	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.3	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.5	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.6	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.9	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.2	61.00	3.20	2.97	0.0
11.00	0.80	0.60	1.9	62.00	3.20	2.97	0.0
12.00	1.60	1.38	15.6	63.00	3.20	2.97	0.0
13.00	2.40	2.17	2.3	64.00	3.20	2.97	0.0
14.00	2.60	2.37	1.4	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.1	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.8	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.6	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.5	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.4	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.4	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.3	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.3				
23.00	3.17	2.94	0.3				
24.00	3.20	2.97	0.2				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E08: E08 (Reserved Channel)

Runoff = 21.6 cfs @ 12.10 hrs, Volume= 1.780 af, Depth= 2.97"

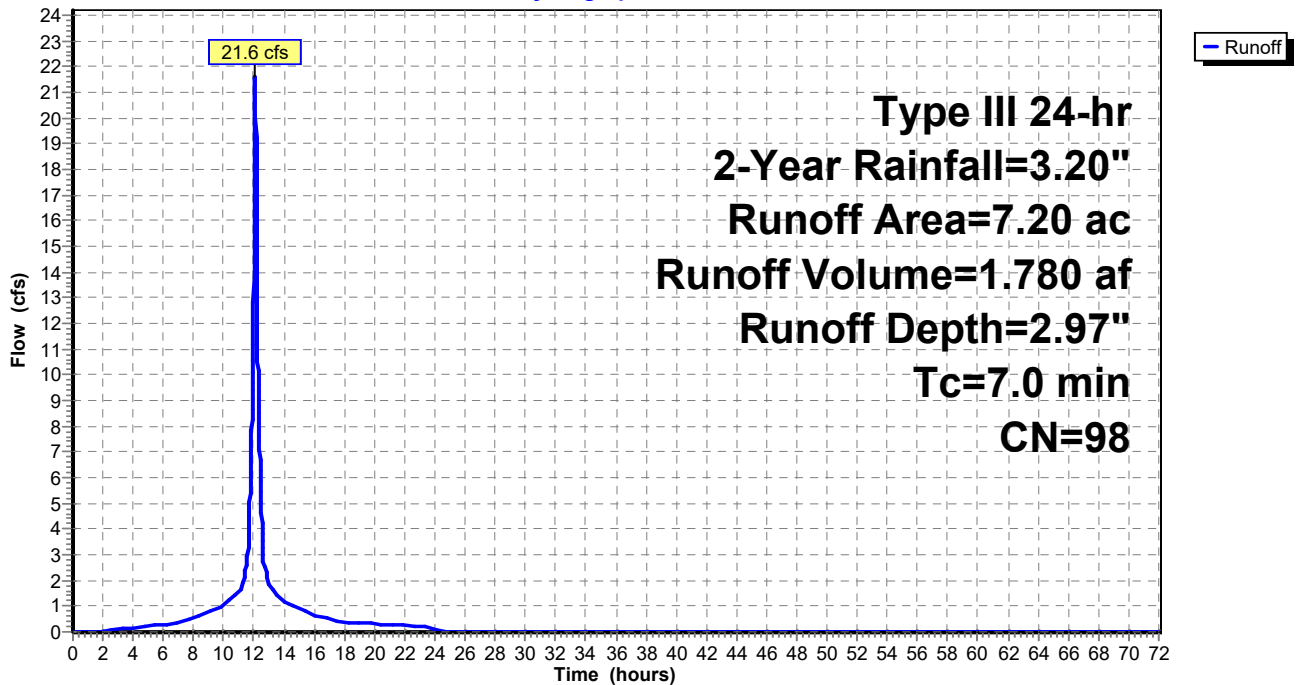
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
7.20	98	Paved parking, HSG B
7.20		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E08: E08 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E08: E08 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.1	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.2	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.2	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.3	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.4	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.5	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.8	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.0	61.00	3.20	2.97	0.0
11.00	0.80	0.60	1.6	62.00	3.20	2.97	0.0
12.00	1.60	1.38	12.8	63.00	3.20	2.97	0.0
13.00	2.40	2.17	1.9	64.00	3.20	2.97	0.0
14.00	2.60	2.37	1.2	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.9	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.6	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.5	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.4	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.3	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.3	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.3	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.3				
23.00	3.17	2.94	0.2				
24.00	3.20	2.97	0.2				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E09: E09 (Reserved Channel)

Runoff = 66.9 cfs @ 12.10 hrs, Volume= 5.515 af, Depth= 2.97"

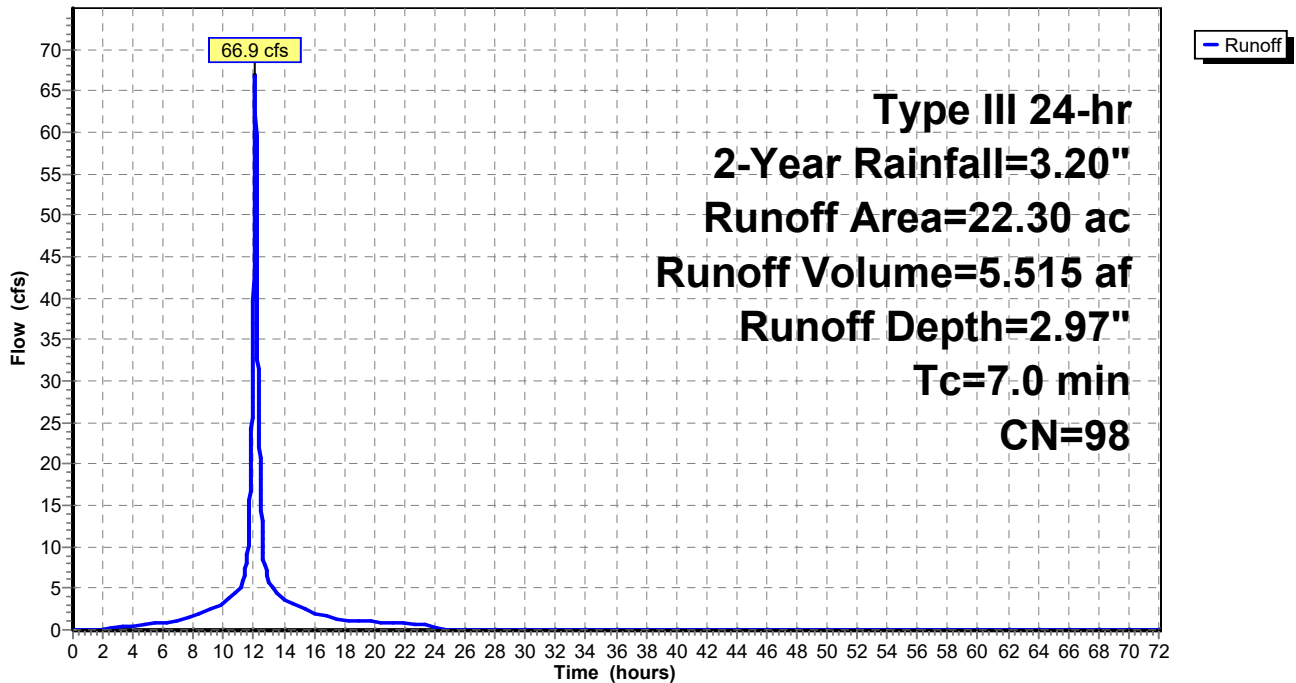
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
22.30	98	Paved parking, HSG B
22.30		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E09: E09 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E09: E09 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.3	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.5	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.7	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.8	57.00	3.20	2.97	0.0
7.00	0.29	0.14	1.2	58.00	3.20	2.97	0.0
8.00	0.36	0.20	1.5	59.00	3.20	2.97	0.0
9.00	0.47	0.29	2.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	3.2	61.00	3.20	2.97	0.0
11.00	0.80	0.60	4.8	62.00	3.20	2.97	0.0
12.00	1.60	1.38	39.7	63.00	3.20	2.97	0.0
13.00	2.40	2.17	5.9	64.00	3.20	2.97	0.0
14.00	2.60	2.37	3.7	65.00	3.20	2.97	0.0
15.00	2.73	2.50	2.8	66.00	3.20	2.97	0.0
16.00	2.84	2.60	2.0	67.00	3.20	2.97	0.0
17.00	2.91	2.68	1.5	68.00	3.20	2.97	0.0
18.00	2.97	2.74	1.2	69.00	3.20	2.97	0.0
19.00	3.02	2.79	1.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.9	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.9	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.8				
23.00	3.17	2.94	0.7				
24.00	3.20	2.97	0.6				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E10: E10 (Reserved Channel)

Runoff = 39.8 cfs @ 12.10 hrs, Volume= 3.277 af, Depth= 2.97"

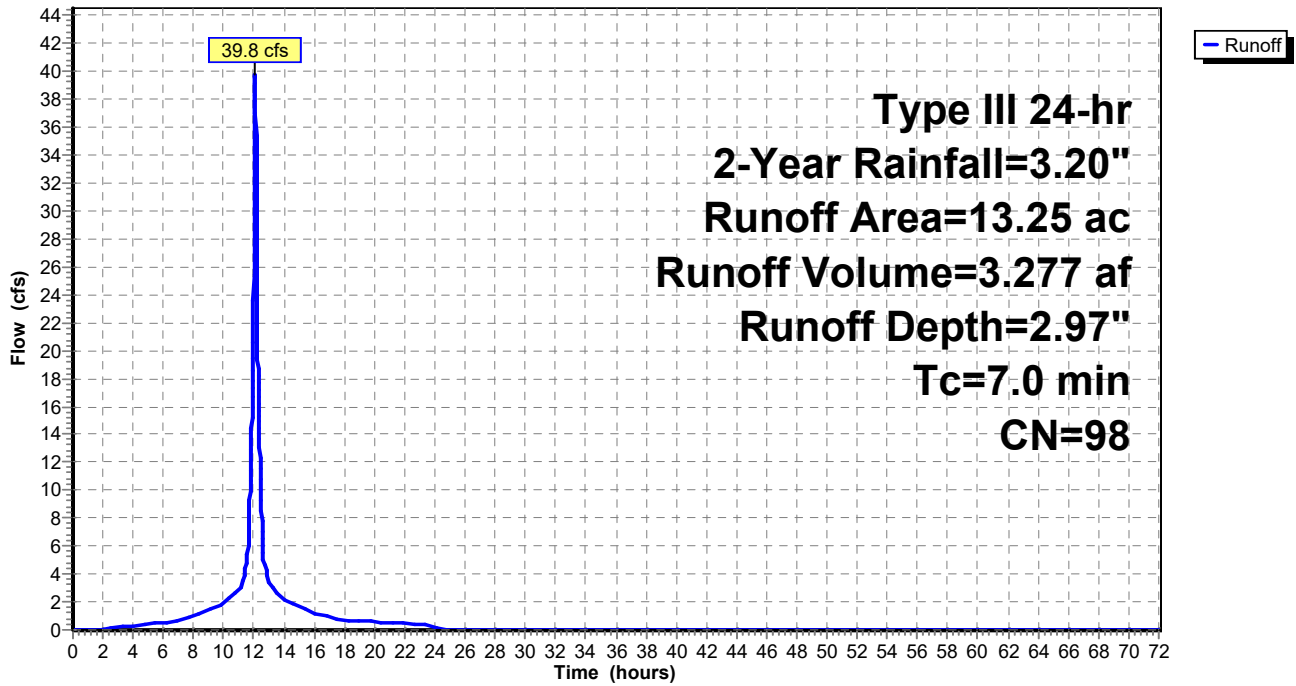
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
13.25	98	Paved parking, HSG B
13.25		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E10: E10 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas*Type III 24-hr 2-Year Rainfall=3.20"*

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Hydrograph for Subcatchment E10: E10 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.2	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.3	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.4	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.5	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.7	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.9	59.00	3.20	2.97	0.0
9.00	0.47	0.29	1.4	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.9	61.00	3.20	2.97	0.0
11.00	0.80	0.60	2.9	62.00	3.20	2.97	0.0
12.00	1.60	1.38	23.6	63.00	3.20	2.97	0.0
13.00	2.40	2.17	3.5	64.00	3.20	2.97	0.0
14.00	2.60	2.37	2.2	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.6	66.00	3.20	2.97	0.0
16.00	2.84	2.60	1.2	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.9	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.7	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.6	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.6	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.5	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.5				
23.00	3.17	2.94	0.4				
24.00	3.20	2.97	0.4				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E11: E11 (Reserved Channel)

Runoff = 9.9 cfs @ 12.07 hrs, Volume= 0.764 af, Depth= 2.97"

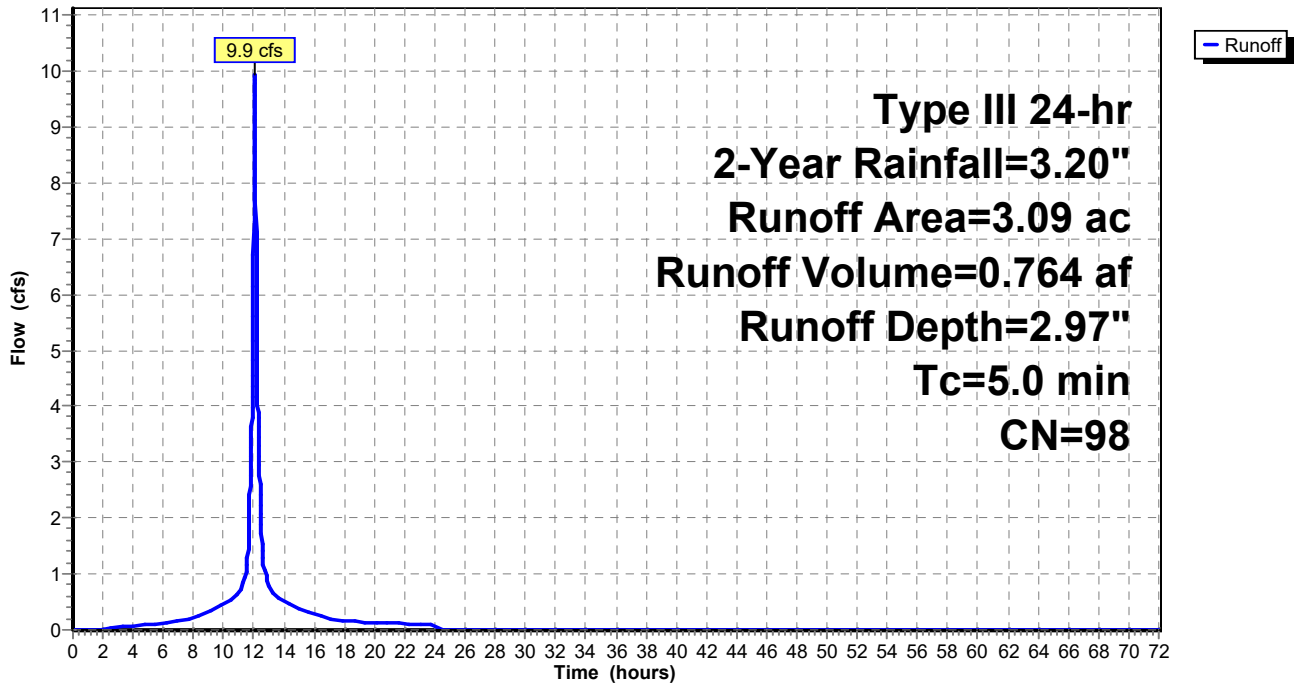
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
3.09	98	Paved parking, HSG B
3.09		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E11: E11 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E11: E11 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.1	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.1	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.1	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.2	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.2	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.4	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.7	62.00	3.20	2.97	0.0
12.00	1.60	1.38	6.7	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.8	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.5	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.4	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.3	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.2	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.2	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.1				
23.00	3.17	2.94	0.1				
24.00	3.20	2.97	0.1				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E12: E12 (Reserved Channel)

Runoff = 32.0 cfs @ 12.10 hrs, Volume= 2.639 af, Depth= 2.97"

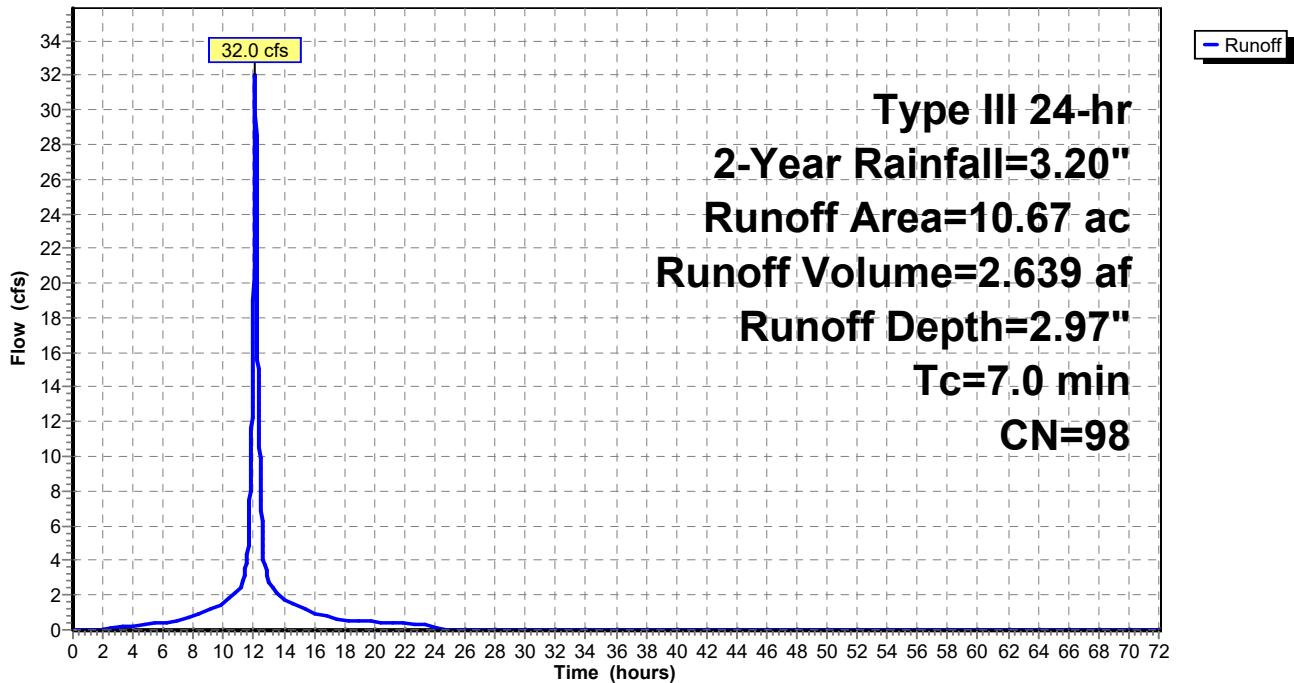
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
10.67	98	Paved parking, HSG B
10.67		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E12: E12 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E12: E12 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.1	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.2	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.3	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.4	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.6	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.7	59.00	3.20	2.97	0.0
9.00	0.47	0.29	1.1	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.5	61.00	3.20	2.97	0.0
11.00	0.80	0.60	2.3	62.00	3.20	2.97	0.0
12.00	1.60	1.38	19.0	63.00	3.20	2.97	0.0
13.00	2.40	2.17	2.8	64.00	3.20	2.97	0.0
14.00	2.60	2.37	1.8	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.3	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.9	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.7	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.6	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.5	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.5	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.4	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.4				
23.00	3.17	2.94	0.3				
24.00	3.20	2.97	0.3				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 1P: E01 (Reserved Channel)

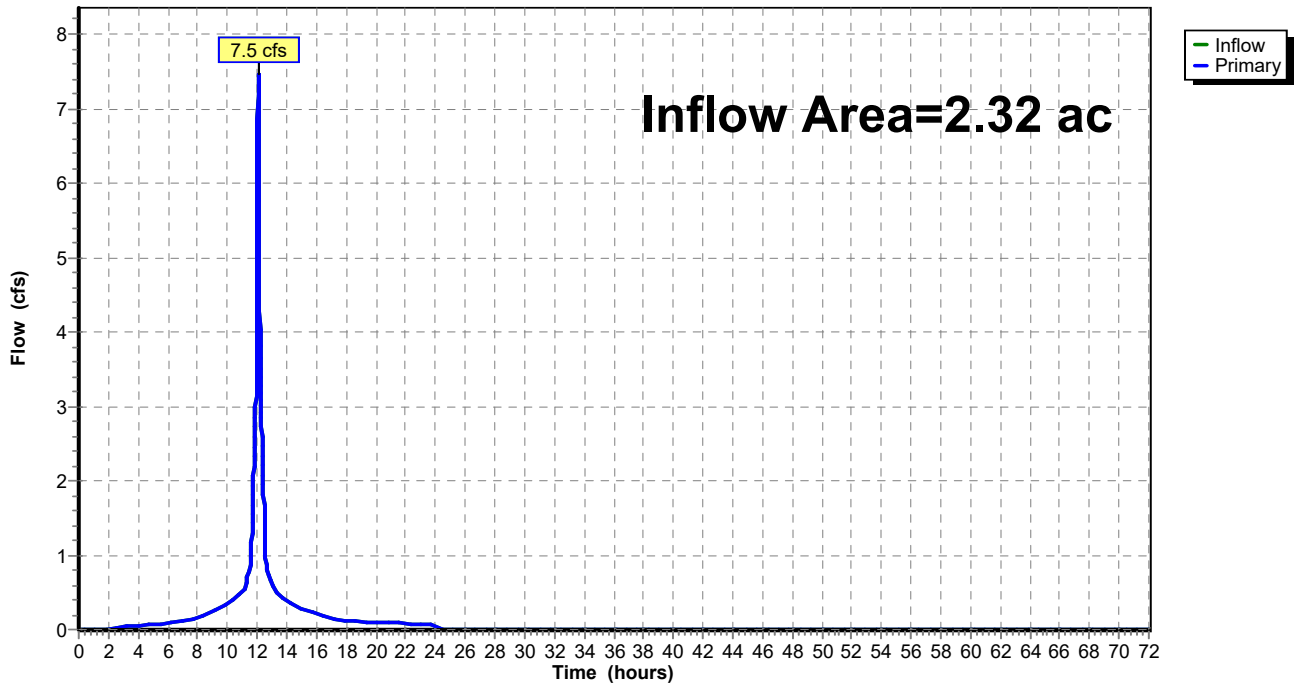
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.32 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 7.5 cfs @ 12.07 hrs, Volume= 0.574 af
Primary = 7.5 cfs @ 12.07 hrs, Volume= 0.574 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 1P: E01 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 1P: E01 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.2		0.2	60.00	0.0		0.0
10.00	0.3		0.3	61.00	0.0		0.0
11.00	0.5		0.5	62.00	0.0		0.0
12.00	5.0		5.0	63.00	0.0		0.0
13.00	0.6		0.6	64.00	0.0		0.0
14.00	0.4		0.4	65.00	0.0		0.0
15.00	0.3		0.3	66.00	0.0		0.0
16.00	0.2		0.2	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 2P: E02 (Ground Infiltration)

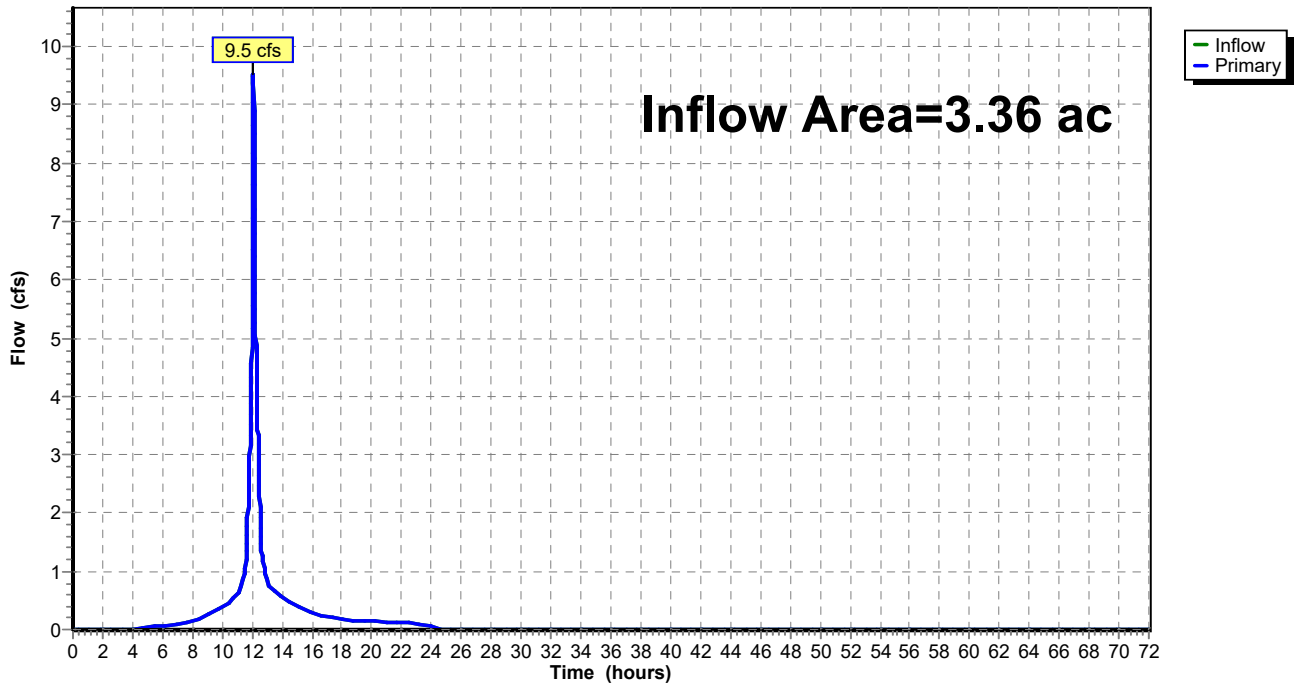
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.36 ac, 27.08% Impervious, Inflow Depth = 2.64" for 2-Year event
Inflow = 9.5 cfs @ 12.10 hrs, Volume= 0.741 af
Primary = 9.5 cfs @ 12.10 hrs, Volume= 0.741 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 2P: E02 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 2P: E02 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.0		0.0	55.00	0.0		0.0
5.00	0.0		0.0	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.1		0.1	59.00	0.0		0.0
9.00	0.3		0.3	60.00	0.0		0.0
10.00	0.4		0.4	61.00	0.0		0.0
11.00	0.6		0.6	62.00	0.0		0.0
12.00	5.6		5.6	63.00	0.0		0.0
13.00	0.9		0.9	64.00	0.0		0.0
14.00	0.5		0.5	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 3P: E03 (Ground Infiltration)

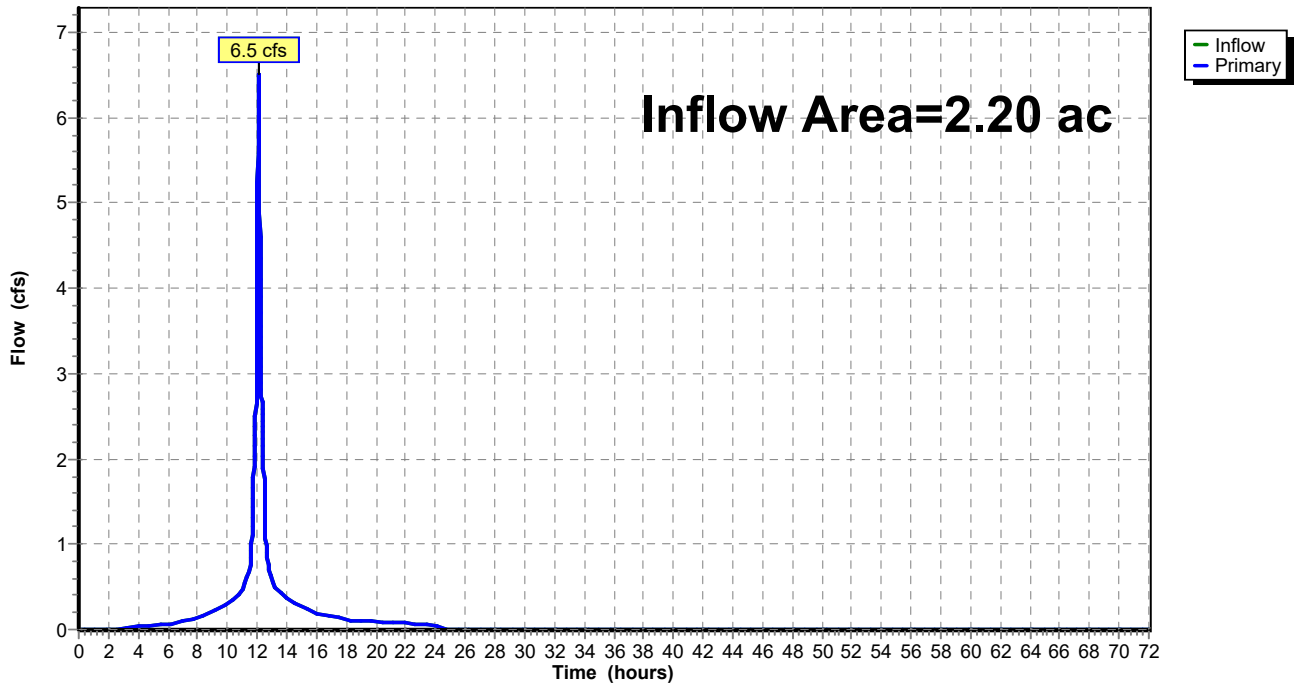
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.20 ac, 73.64% Impervious, Inflow Depth = 2.86" for 2-Year event
Inflow = 6.5 cfs @ 12.10 hrs, Volume= 0.524 af
Primary = 6.5 cfs @ 12.10 hrs, Volume= 0.524 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 3P: E03 (Ground Infiltration)

Hydrograph



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Hydrograph for Pond 3P: E03 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.0		0.0	55.00	0.0		0.0
5.00	0.0		0.0	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.1		0.1	59.00	0.0		0.0
9.00	0.2		0.2	60.00	0.0		0.0
10.00	0.3		0.3	61.00	0.0		0.0
11.00	0.5		0.5	62.00	0.0		0.0
12.00	3.8		3.8	63.00	0.0		0.0
13.00	0.6		0.6	64.00	0.0		0.0
14.00	0.4		0.4	65.00	0.0		0.0
15.00	0.3		0.3	66.00	0.0		0.0
16.00	0.2		0.2	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 4P: E04 (Ground Infiltration)

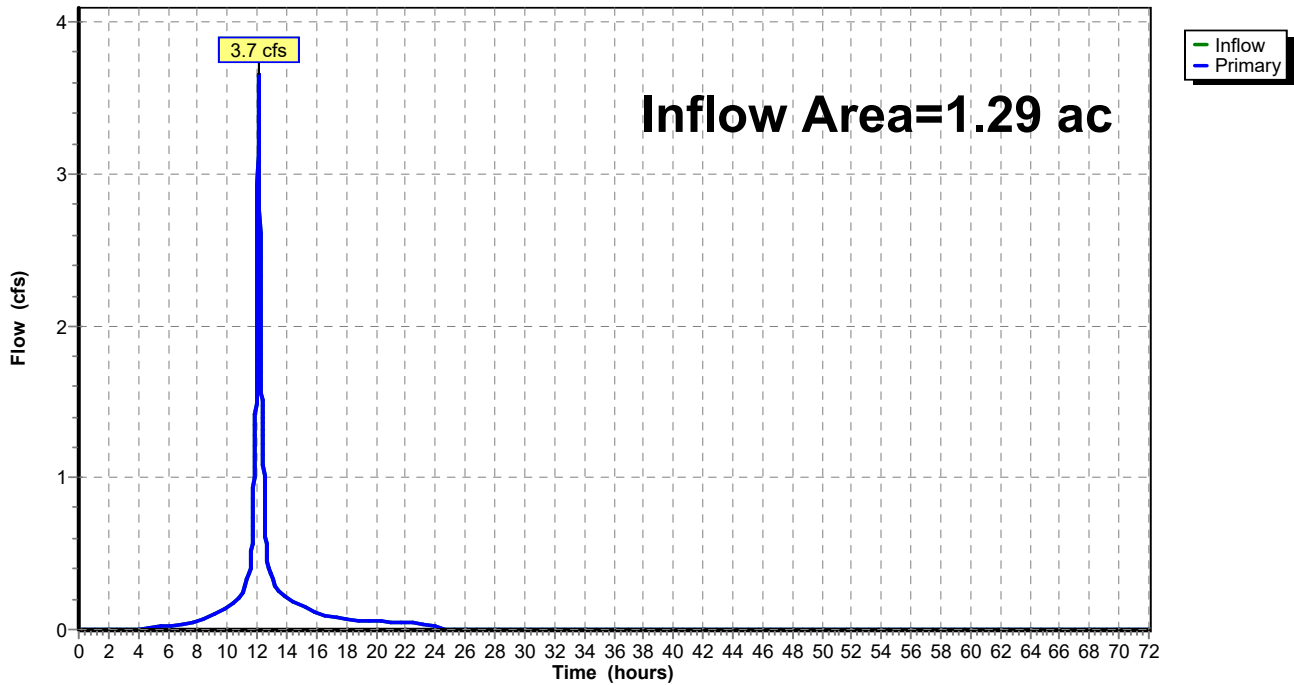
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.29 ac, 21.71% Impervious, Inflow Depth = 2.64" for 2-Year event
Inflow = 3.7 cfs @ 12.10 hrs, Volume= 0.284 af
Primary = 3.7 cfs @ 12.10 hrs, Volume= 0.284 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 4P: E04 (Ground Infiltration)

Hydrograph



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Hydrograph for Pond 4P: E04 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.0		0.0	55.00	0.0		0.0
5.00	0.0		0.0	56.00	0.0		0.0
6.00	0.0		0.0	57.00	0.0		0.0
7.00	0.0		0.0	58.00	0.0		0.0
8.00	0.1		0.1	59.00	0.0		0.0
9.00	0.1		0.1	60.00	0.0		0.0
10.00	0.1		0.1	61.00	0.0		0.0
11.00	0.2		0.2	62.00	0.0		0.0
12.00	2.1		2.1	63.00	0.0		0.0
13.00	0.3		0.3	64.00	0.0		0.0
14.00	0.2		0.2	65.00	0.0		0.0
15.00	0.2		0.2	66.00	0.0		0.0
16.00	0.1		0.1	67.00	0.0		0.0
17.00	0.1		0.1	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.0		0.0	72.00	0.0		0.0
22.00	0.0		0.0				
23.00	0.0		0.0				
24.00	0.0		0.0				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 5P: E05 (Offsite Draining)

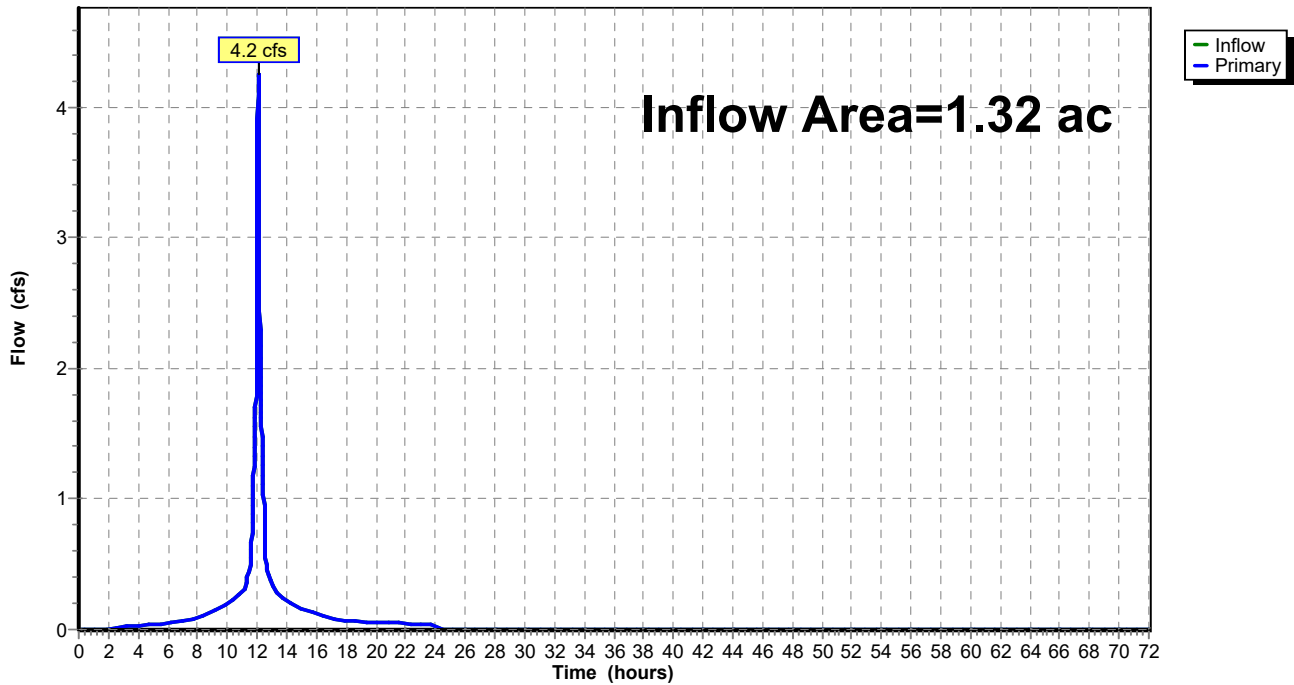
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.32 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 4.2 cfs @ 12.07 hrs, Volume= 0.326 af
Primary = 4.2 cfs @ 12.07 hrs, Volume= 0.326 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 5P: E05 (Offsite Draining)

Hydrograph



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Hydrograph for Pond 5P: E05 (Offsite Draining)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.0		0.0	55.00	0.0		0.0
5.00	0.0		0.0	56.00	0.0		0.0
6.00	0.0		0.0	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.1		0.1	59.00	0.0		0.0
9.00	0.1		0.1	60.00	0.0		0.0
10.00	0.2		0.2	61.00	0.0		0.0
11.00	0.3		0.3	62.00	0.0		0.0
12.00	2.9		2.9	63.00	0.0		0.0
13.00	0.3		0.3	64.00	0.0		0.0
14.00	0.2		0.2	65.00	0.0		0.0
15.00	0.2		0.2	66.00	0.0		0.0
16.00	0.1		0.1	67.00	0.0		0.0
17.00	0.1		0.1	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.0		0.0				
23.00	0.0		0.0				
24.00	0.0		0.0				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 6P: E06 (Reserved Channel)

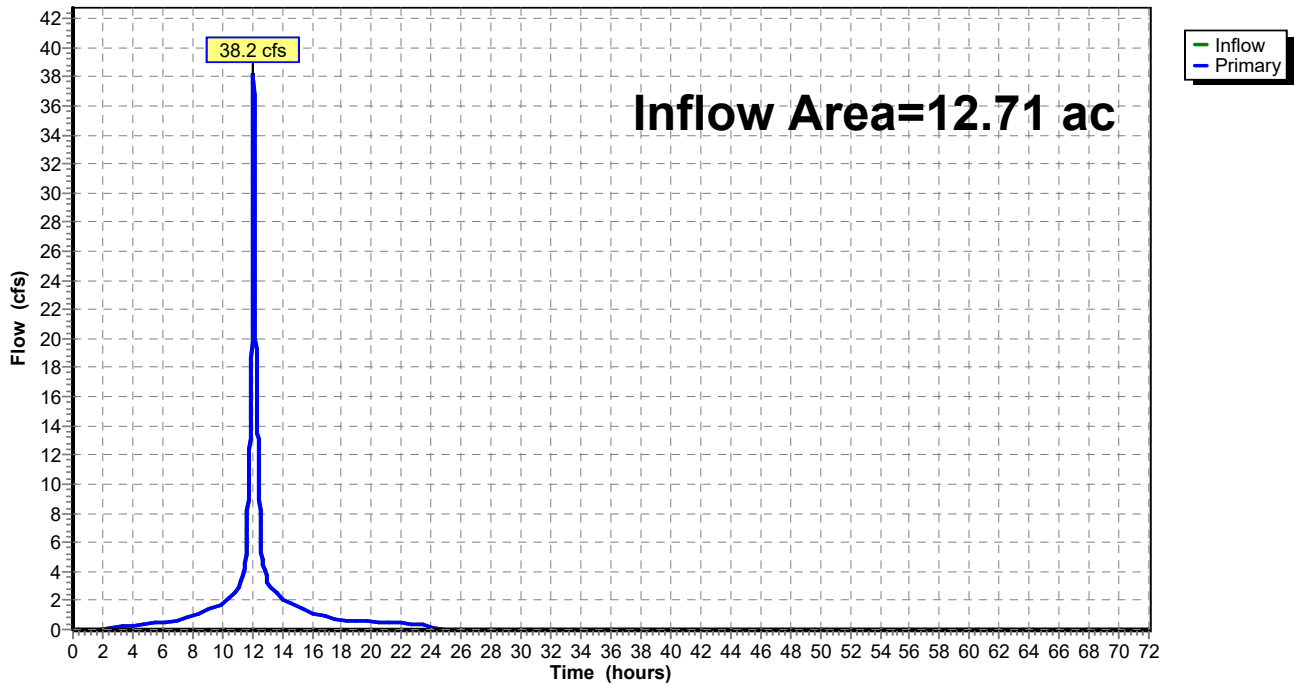
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.71 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 38.2 cfs @ 12.10 hrs, Volume= 3.143 af
Primary = 38.2 cfs @ 12.10 hrs, Volume= 3.143 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 6P: E06 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 6P: E06 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.4		0.4	56.00	0.0		0.0
6.00	0.5		0.5	57.00	0.0		0.0
7.00	0.7		0.7	58.00	0.0		0.0
8.00	0.9		0.9	59.00	0.0		0.0
9.00	1.3		1.3	60.00	0.0		0.0
10.00	1.8		1.8	61.00	0.0		0.0
11.00	2.8		2.8	62.00	0.0		0.0
12.00	22.6		22.6	63.00	0.0		0.0
13.00	3.4		3.4	64.00	0.0		0.0
14.00	2.1		2.1	65.00	0.0		0.0
15.00	1.6		1.6	66.00	0.0		0.0
16.00	1.1		1.1	67.00	0.0		0.0
17.00	0.9		0.9	68.00	0.0		0.0
18.00	0.7		0.7	69.00	0.0		0.0
19.00	0.6		0.6	70.00	0.0		0.0
20.00	0.5		0.5	71.00	0.0		0.0
21.00	0.5		0.5	72.00	0.0		0.0
22.00	0.4		0.4				
23.00	0.4		0.4				
24.00	0.4		0.4				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 7P: E07 (Reserved Channel)

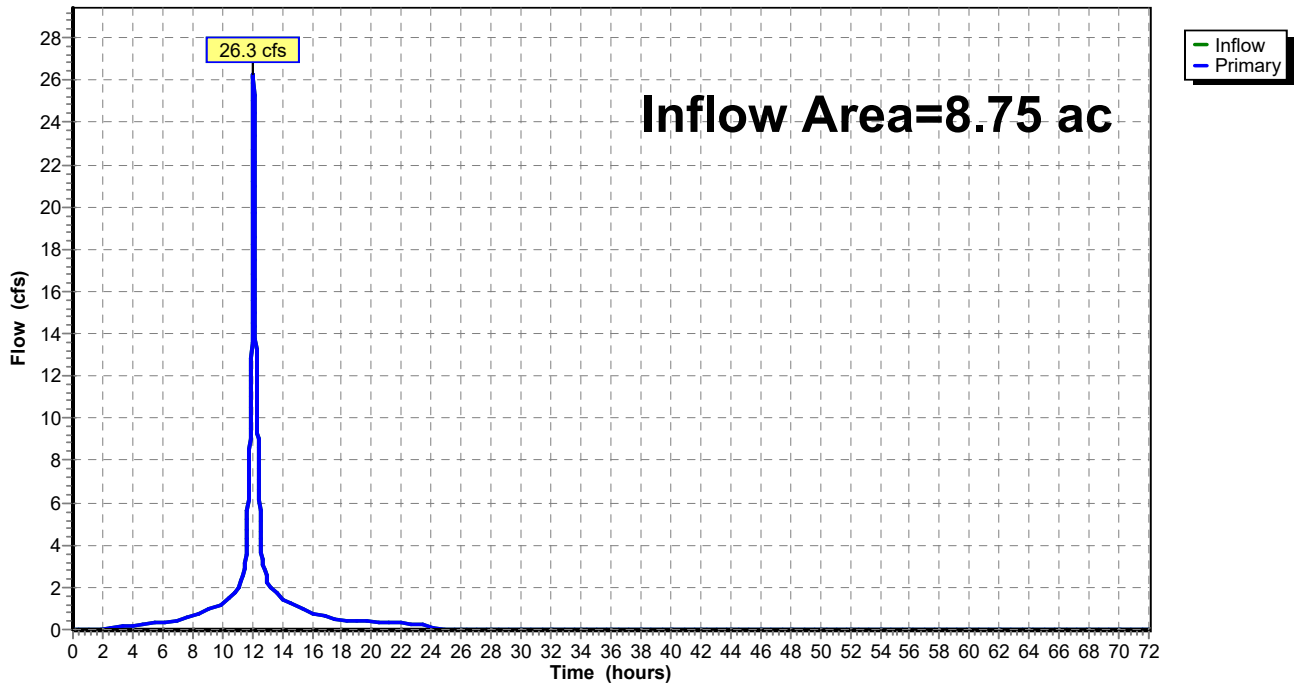
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 8.75 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 26.3 cfs @ 12.10 hrs, Volume= 2.164 af
Primary = 26.3 cfs @ 12.10 hrs, Volume= 2.164 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 7P: E07 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 7P: E07 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.5		0.5	58.00	0.0		0.0
8.00	0.6		0.6	59.00	0.0		0.0
9.00	0.9		0.9	60.00	0.0		0.0
10.00	1.2		1.2	61.00	0.0		0.0
11.00	1.9		1.9	62.00	0.0		0.0
12.00	15.6		15.6	63.00	0.0		0.0
13.00	2.3		2.3	64.00	0.0		0.0
14.00	1.4		1.4	65.00	0.0		0.0
15.00	1.1		1.1	66.00	0.0		0.0
16.00	0.8		0.8	67.00	0.0		0.0
17.00	0.6		0.6	68.00	0.0		0.0
18.00	0.5		0.5	69.00	0.0		0.0
19.00	0.4		0.4	70.00	0.0		0.0
20.00	0.4		0.4	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.3		0.3				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 8P: E08 (Reserved Channel)

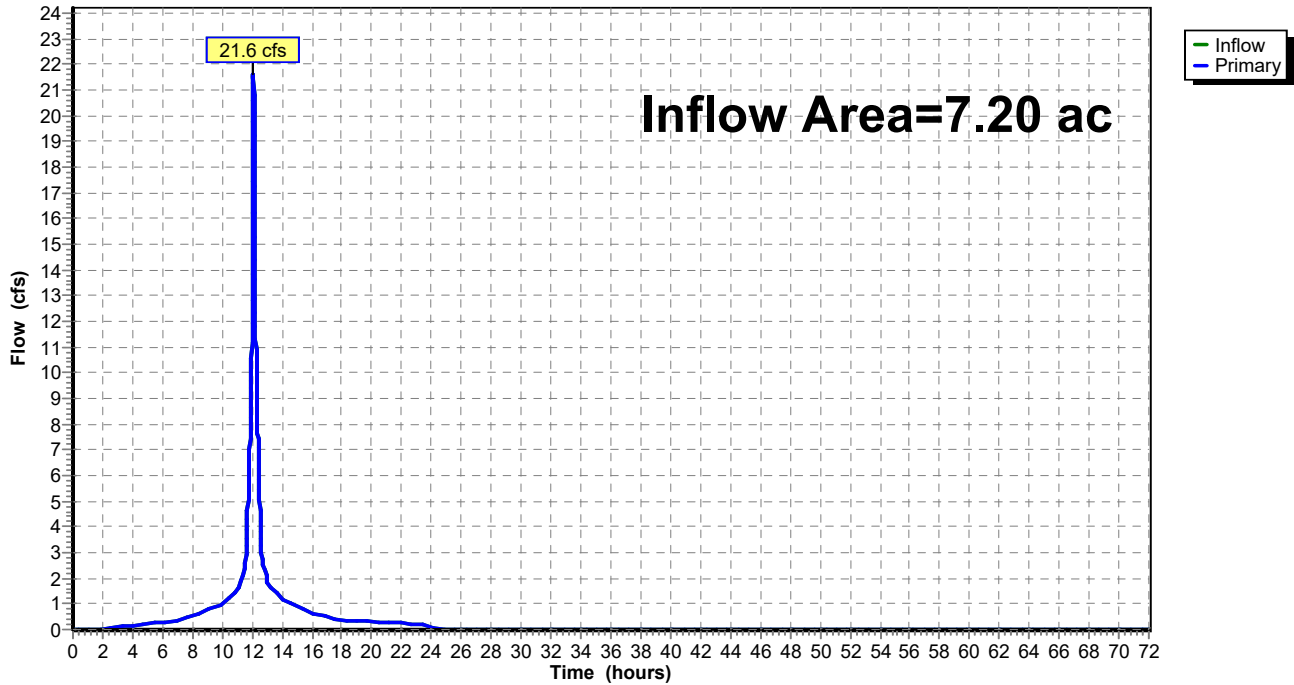
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.20 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 21.6 cfs @ 12.10 hrs, Volume= 1.780 af
Primary = 21.6 cfs @ 12.10 hrs, Volume= 1.780 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 8P: E08 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 8P: E08 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.4		0.4	58.00	0.0		0.0
8.00	0.5		0.5	59.00	0.0		0.0
9.00	0.8		0.8	60.00	0.0		0.0
10.00	1.0		1.0	61.00	0.0		0.0
11.00	1.6		1.6	62.00	0.0		0.0
12.00	12.8		12.8	63.00	0.0		0.0
13.00	1.9		1.9	64.00	0.0		0.0
14.00	1.2		1.2	65.00	0.0		0.0
15.00	0.9		0.9	66.00	0.0		0.0
16.00	0.6		0.6	67.00	0.0		0.0
17.00	0.5		0.5	68.00	0.0		0.0
18.00	0.4		0.4	69.00	0.0		0.0
19.00	0.3		0.3	70.00	0.0		0.0
20.00	0.3		0.3	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 9P: E09 (Reserved Channel)

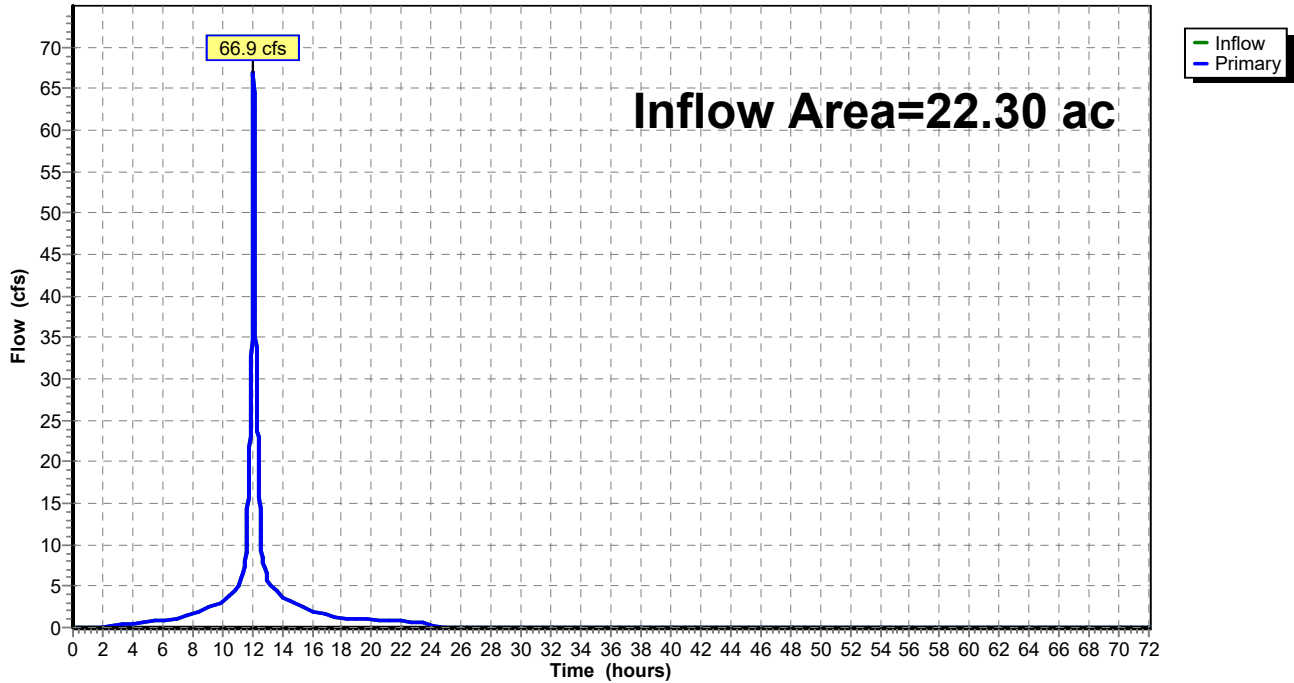
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.30 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 66.9 cfs @ 12.10 hrs, Volume= 5.515 af
Primary = 66.9 cfs @ 12.10 hrs, Volume= 5.515 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 9P: E09 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 9P: E09 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.3		0.3	54.00	0.0		0.0
4.00	0.5		0.5	55.00	0.0		0.0
5.00	0.7		0.7	56.00	0.0		0.0
6.00	0.8		0.8	57.00	0.0		0.0
7.00	1.2		1.2	58.00	0.0		0.0
8.00	1.5		1.5	59.00	0.0		0.0
9.00	2.3		2.3	60.00	0.0		0.0
10.00	3.2		3.2	61.00	0.0		0.0
11.00	4.8		4.8	62.00	0.0		0.0
12.00	39.7		39.7	63.00	0.0		0.0
13.00	5.9		5.9	64.00	0.0		0.0
14.00	3.7		3.7	65.00	0.0		0.0
15.00	2.8		2.8	66.00	0.0		0.0
16.00	2.0		2.0	67.00	0.0		0.0
17.00	1.5		1.5	68.00	0.0		0.0
18.00	1.2		1.2	69.00	0.0		0.0
19.00	1.1		1.1	70.00	0.0		0.0
20.00	0.9		0.9	71.00	0.0		0.0
21.00	0.9		0.9	72.00	0.0		0.0
22.00	0.8		0.8				
23.00	0.7		0.7				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 10P: E10 (Reserved Channel)

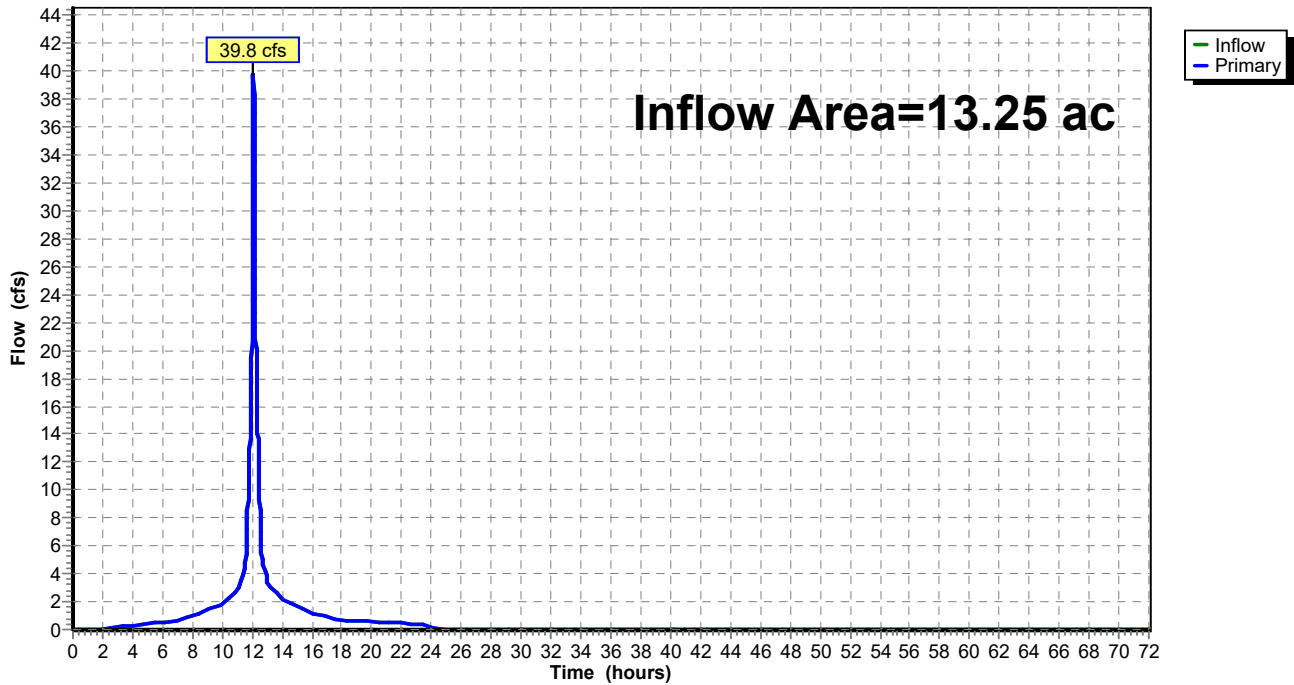
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.25 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 39.8 cfs @ 12.10 hrs, Volume= 3.277 af
Primary = 39.8 cfs @ 12.10 hrs, Volume= 3.277 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 10P: E10 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 10P: E10 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.4		0.4	56.00	0.0		0.0
6.00	0.5		0.5	57.00	0.0		0.0
7.00	0.7		0.7	58.00	0.0		0.0
8.00	0.9		0.9	59.00	0.0		0.0
9.00	1.4		1.4	60.00	0.0		0.0
10.00	1.9		1.9	61.00	0.0		0.0
11.00	2.9		2.9	62.00	0.0		0.0
12.00	23.6		23.6	63.00	0.0		0.0
13.00	3.5		3.5	64.00	0.0		0.0
14.00	2.2		2.2	65.00	0.0		0.0
15.00	1.6		1.6	66.00	0.0		0.0
16.00	1.2		1.2	67.00	0.0		0.0
17.00	0.9		0.9	68.00	0.0		0.0
18.00	0.7		0.7	69.00	0.0		0.0
19.00	0.6		0.6	70.00	0.0		0.0
20.00	0.6		0.6	71.00	0.0		0.0
21.00	0.5		0.5	72.00	0.0		0.0
22.00	0.5		0.5				
23.00	0.4		0.4				
24.00	0.4		0.4				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 11P: E11 (Reserved Channel)

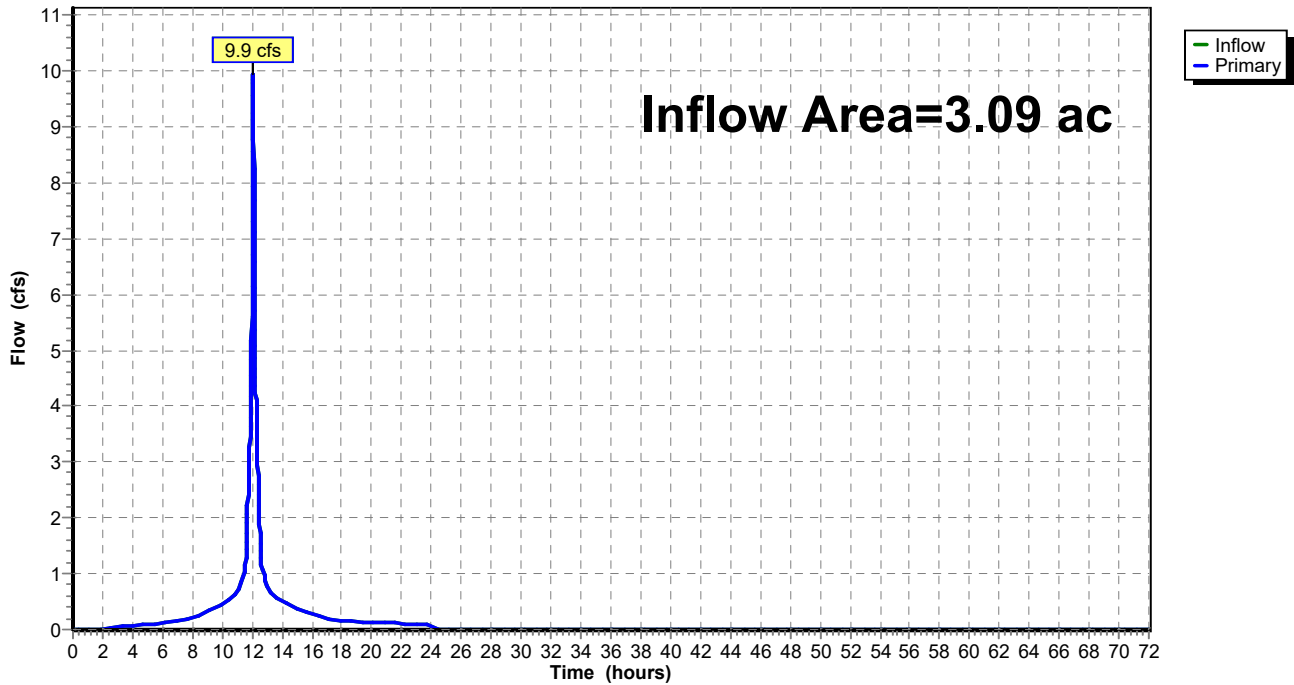
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.09 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 9.9 cfs @ 12.07 hrs, Volume= 0.764 af
Primary = 9.9 cfs @ 12.07 hrs, Volume= 0.764 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 11P: E11 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 11P: E11 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.3		0.3	60.00	0.0		0.0
10.00	0.4		0.4	61.00	0.0		0.0
11.00	0.7		0.7	62.00	0.0		0.0
12.00	6.7		6.7	63.00	0.0		0.0
13.00	0.8		0.8	64.00	0.0		0.0
14.00	0.5		0.5	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 12P: E12 (Reserved Channel)

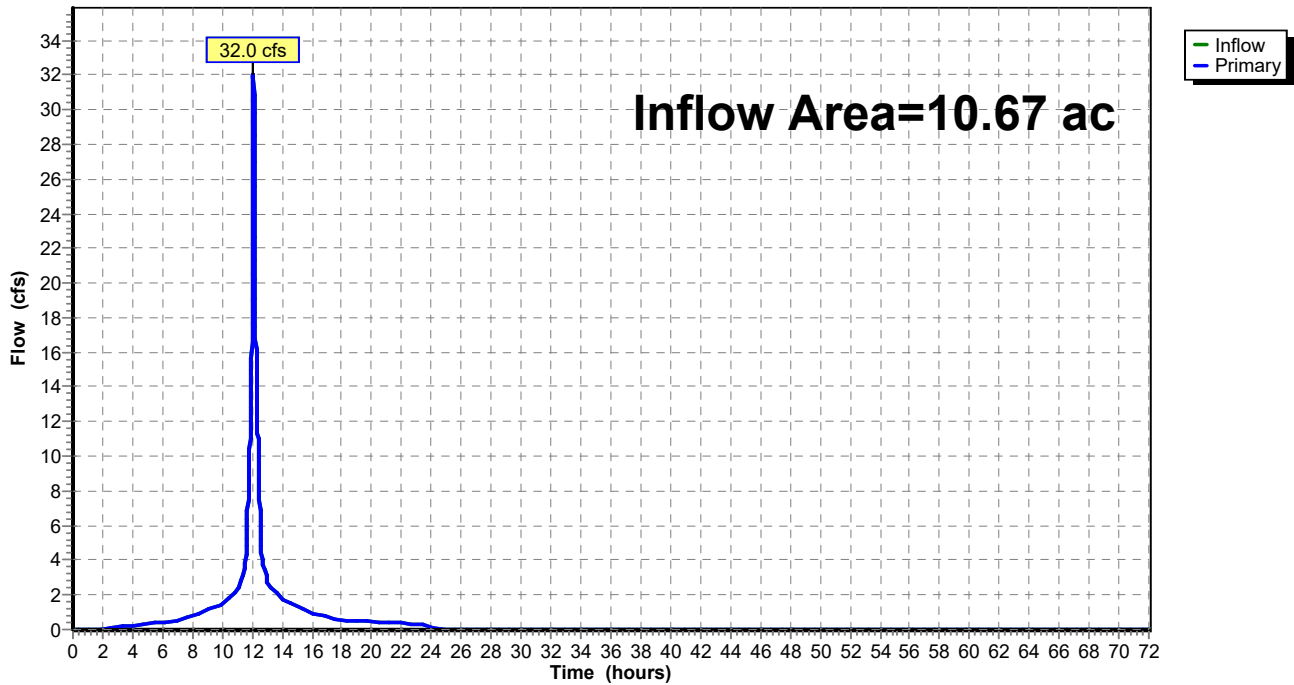
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.67 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 32.0 cfs @ 12.10 hrs, Volume= 2.639 af
Primary = 32.0 cfs @ 12.10 hrs, Volume= 2.639 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 12P: E12 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 12P: E12 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.4		0.4	57.00	0.0		0.0
7.00	0.6		0.6	58.00	0.0		0.0
8.00	0.7		0.7	59.00	0.0		0.0
9.00	1.1		1.1	60.00	0.0		0.0
10.00	1.5		1.5	61.00	0.0		0.0
11.00	2.3		2.3	62.00	0.0		0.0
12.00	19.0		19.0	63.00	0.0		0.0
13.00	2.8		2.8	64.00	0.0		0.0
14.00	1.8		1.8	65.00	0.0		0.0
15.00	1.3		1.3	66.00	0.0		0.0
16.00	0.9		0.9	67.00	0.0		0.0
17.00	0.7		0.7	68.00	0.0		0.0
18.00	0.6		0.6	69.00	0.0		0.0
19.00	0.5		0.5	70.00	0.0		0.0
20.00	0.5		0.5	71.00	0.0		0.0
21.00	0.4		0.4	72.00	0.0		0.0
22.00	0.4		0.4				
23.00	0.3		0.3				
24.00	0.3		0.3				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 10-year Rainfall=5.00"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentE01: E01 (Reserved)	Runoff Area=2.32 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=11.8 cfs 0.921 af
SubcatchmentE02: E02 (Ground Infiltration)	Runoff Area=3.36 ac 27.08% Impervious Runoff Depth=4.42" Tc=7.0 min CN=95 Runoff=15.4 cfs 1.237 af
SubcatchmentE03: E03 (Ground Infiltration)	Runoff Area=2.20 ac 73.64% Impervious Runoff Depth=4.65" Tc=7.0 min CN=97 Runoff=10.3 cfs 0.852 af
SubcatchmentE04: E04 (Ground Infiltration)	Runoff Area=1.29 ac 21.71% Impervious Runoff Depth=4.42" Tc=7.0 min CN=95 Runoff=5.9 cfs 0.475 af
SubcatchmentE05: E05 (Offsite Draining)	Runoff Area=1.32 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=6.7 cfs 0.524 af
SubcatchmentE06: E06 (Reserved)	Runoff Area=12.71 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=60.1 cfs 5.045 af
SubcatchmentE07: E07 (Reserved)	Runoff Area=8.75 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=41.4 cfs 3.473 af
SubcatchmentE08: E08 (Reserved)	Runoff Area=7.20 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=34.0 cfs 2.858 af
SubcatchmentE09: E09 (Reserved)	Runoff Area=22.30 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=105.4 cfs 8.852 af
SubcatchmentE10: E10 (Reserved)	Runoff Area=13.25 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=62.6 cfs 5.259 af
SubcatchmentE11: E11 (Reserved)	Runoff Area=3.09 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=15.7 cfs 1.227 af
SubcatchmentE12: E12 (Reserved)	Runoff Area=10.67 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=50.4 cfs 4.235 af
Pond 1P: E01 (Reserved Channel)	Inflow=11.8 cfs 0.921 af Primary=11.8 cfs 0.921 af
Pond 2P: E02 (Ground Infiltration)	Inflow=15.4 cfs 1.237 af Primary=15.4 cfs 1.237 af
Pond 3P: E03 (Ground Infiltration)	Inflow=10.3 cfs 0.852 af Primary=10.3 cfs 0.852 af
Pond 4P: E04 (Ground Infiltration)	Inflow=5.9 cfs 0.475 af Primary=5.9 cfs 0.475 af

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 10-year Rainfall=5.00"

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Pond 5P: E05 (Offsite Draining)

Inflow=6.7 cfs 0.524 af
Primary=6.7 cfs 0.524 af

Pond 6P: E06 (Reserved Channel)

Inflow=60.1 cfs 5.045 af
Primary=60.1 cfs 5.045 af

Pond 7P: E07 (Reserved Channel)

Inflow=41.4 cfs 3.473 af
Primary=41.4 cfs 3.473 af

Pond 8P: E08 (Reserved Channel)

Inflow=34.0 cfs 2.858 af
Primary=34.0 cfs 2.858 af

Pond 9P: E09 (Reserved Channel)

Inflow=105.4 cfs 8.852 af
Primary=105.4 cfs 8.852 af

Pond 10P: E10 (Reserved Channel)

Inflow=62.6 cfs 5.259 af
Primary=62.6 cfs 5.259 af

Pond 11P: E11 (Reserved Channel)

Inflow=15.7 cfs 1.227 af
Primary=15.7 cfs 1.227 af

Pond 12P: E12 (Reserved Channel)

Inflow=50.4 cfs 4.235 af
Primary=50.4 cfs 4.235 af

Total Runoff Area = 88.46 ac Runoff Volume = 34.958 af Average Runoff Depth = 4.74"
4.57% Pervious = 4.04 ac 95.43% Impervious = 84.42 ac

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment E01: E01 (Reserved Channel)

Runoff = 11.8 cfs @ 12.07 hrs, Volume= 0.921 af, Depth= 4.76"

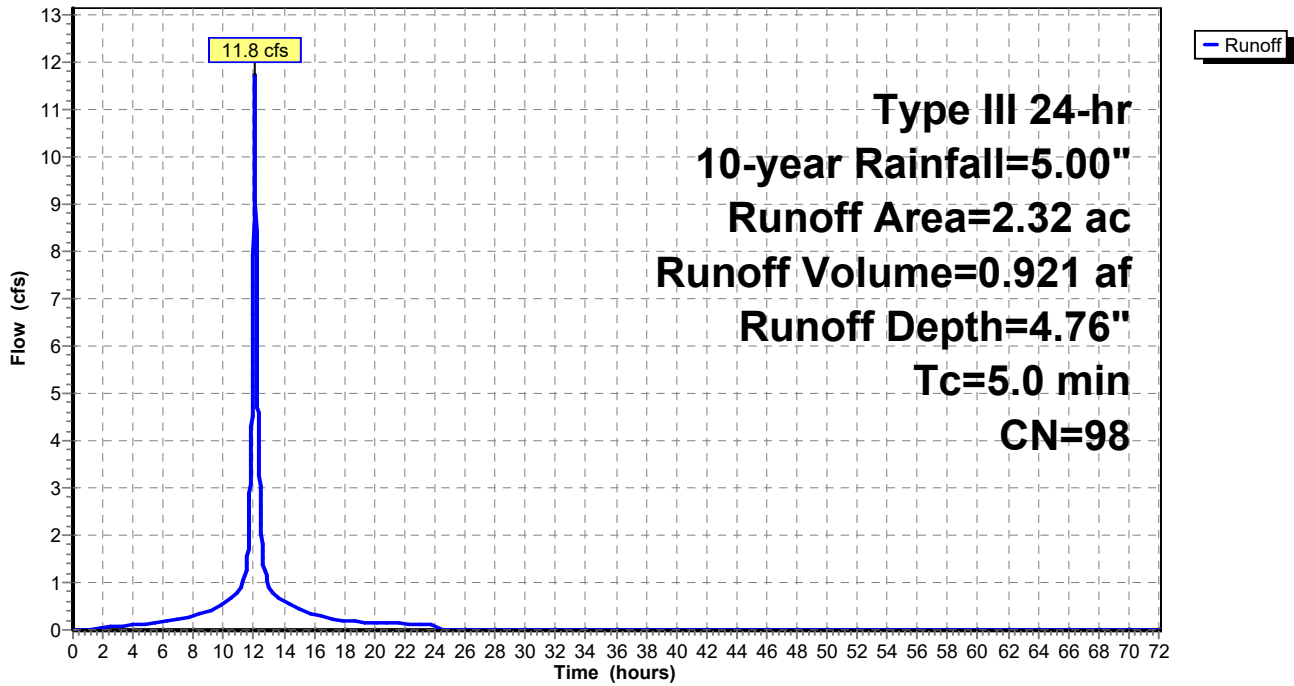
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
2.32	98	Paved parking, HSG B
2.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E01: E01 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E01: E01 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.0	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.1	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.1	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.2	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.2	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.3	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.4	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.5	61.00	5.00	4.76	0.0
11.00	1.25	1.03	0.8	62.00	5.00	4.76	0.0
12.00	2.50	2.27	7.9	63.00	5.00	4.76	0.0
13.00	3.75	3.52	0.9	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.6	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.4	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.3	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.2	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.2	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.2	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.2	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.1	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.1				
23.00	4.95	4.72	0.1				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E02: E02 (Ground Infiltration)

Runoff = 15.4 cfs @ 12.10 hrs, Volume= 1.237 af, Depth= 4.42"

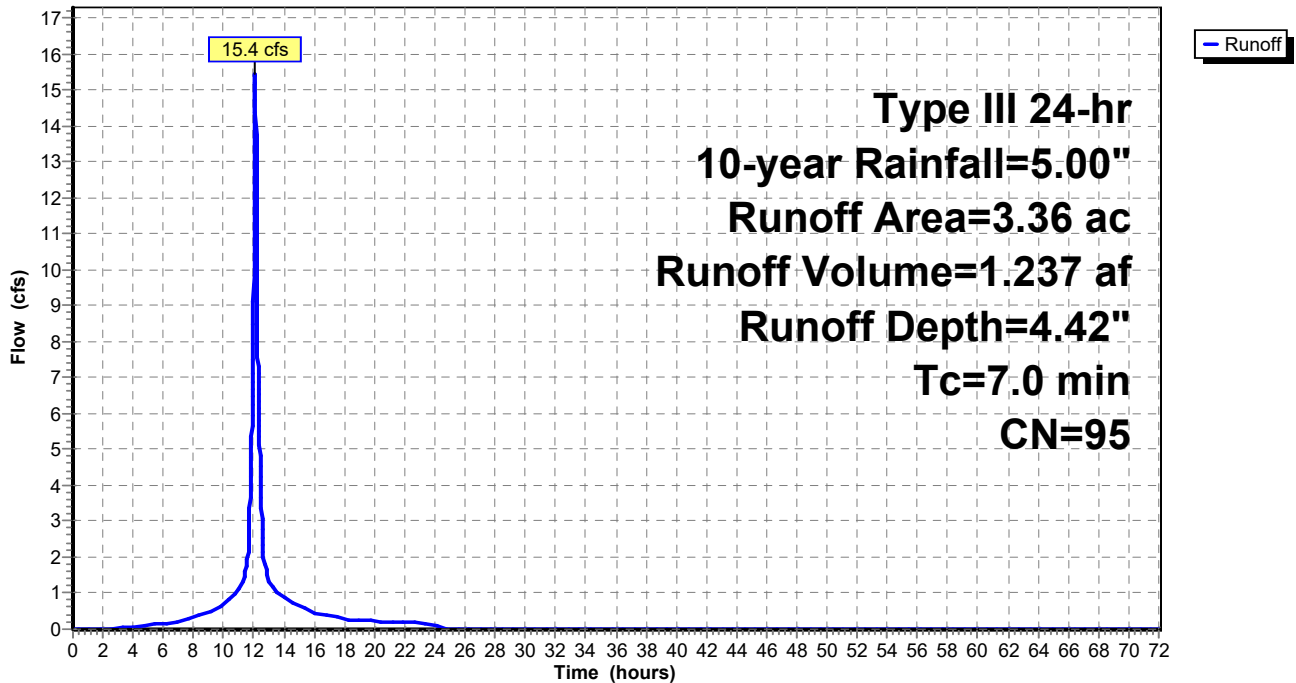
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
0.91	98	Paved parking, HSG B
2.45	94	Fallow, bare soil, HSG D
3.36	95	Weighted Average
2.45		72.92% Pervious Area
0.91		27.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E02: E02 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E02: E02 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.42	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.42	0.0
2.00	0.10	0.00	0.0	53.00	5.00	4.42	0.0
3.00	0.15	0.00	0.0	54.00	5.00	4.42	0.0
4.00	0.22	0.02	0.1	55.00	5.00	4.42	0.0
5.00	0.28	0.05	0.1	56.00	5.00	4.42	0.0
6.00	0.36	0.08	0.1	57.00	5.00	4.42	0.0
7.00	0.45	0.14	0.2	58.00	5.00	4.42	0.0
8.00	0.57	0.22	0.3	59.00	5.00	4.42	0.0
9.00	0.73	0.34	0.5	60.00	5.00	4.42	0.0
10.00	0.95	0.52	0.7	61.00	5.00	4.42	0.0
11.00	1.25	0.78	1.1	62.00	5.00	4.42	0.0
12.00	2.50	1.96	9.1	63.00	5.00	4.42	0.0
13.00	3.75	3.18	1.4	64.00	5.00	4.42	0.0
14.00	4.06	3.49	0.9	65.00	5.00	4.42	0.0
15.00	4.27	3.70	0.6	66.00	5.00	4.42	0.0
16.00	4.43	3.86	0.5	67.00	5.00	4.42	0.0
17.00	4.55	3.97	0.4	68.00	5.00	4.42	0.0
18.00	4.64	4.06	0.3	69.00	5.00	4.42	0.0
19.00	4.72	4.14	0.2	70.00	5.00	4.42	0.0
20.00	4.79	4.21	0.2	71.00	5.00	4.42	0.0
21.00	4.85	4.27	0.2	72.00	5.00	4.42	0.0
22.00	4.90	4.32	0.2				
23.00	4.95	4.37	0.2				
24.00	5.00	4.42	0.1				
25.00	5.00	4.42	0.0				
26.00	5.00	4.42	0.0				
27.00	5.00	4.42	0.0				
28.00	5.00	4.42	0.0				
29.00	5.00	4.42	0.0				
30.00	5.00	4.42	0.0				
31.00	5.00	4.42	0.0				
32.00	5.00	4.42	0.0				
33.00	5.00	4.42	0.0				
34.00	5.00	4.42	0.0				
35.00	5.00	4.42	0.0				
36.00	5.00	4.42	0.0				
37.00	5.00	4.42	0.0				
38.00	5.00	4.42	0.0				
39.00	5.00	4.42	0.0				
40.00	5.00	4.42	0.0				
41.00	5.00	4.42	0.0				
42.00	5.00	4.42	0.0				
43.00	5.00	4.42	0.0				
44.00	5.00	4.42	0.0				
45.00	5.00	4.42	0.0				
46.00	5.00	4.42	0.0				
47.00	5.00	4.42	0.0				
48.00	5.00	4.42	0.0				
49.00	5.00	4.42	0.0				
50.00	5.00	4.42	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E03: E03 (Ground Infiltration)

Runoff = 10.3 cfs @ 12.10 hrs, Volume= 0.852 af, Depth= 4.65"

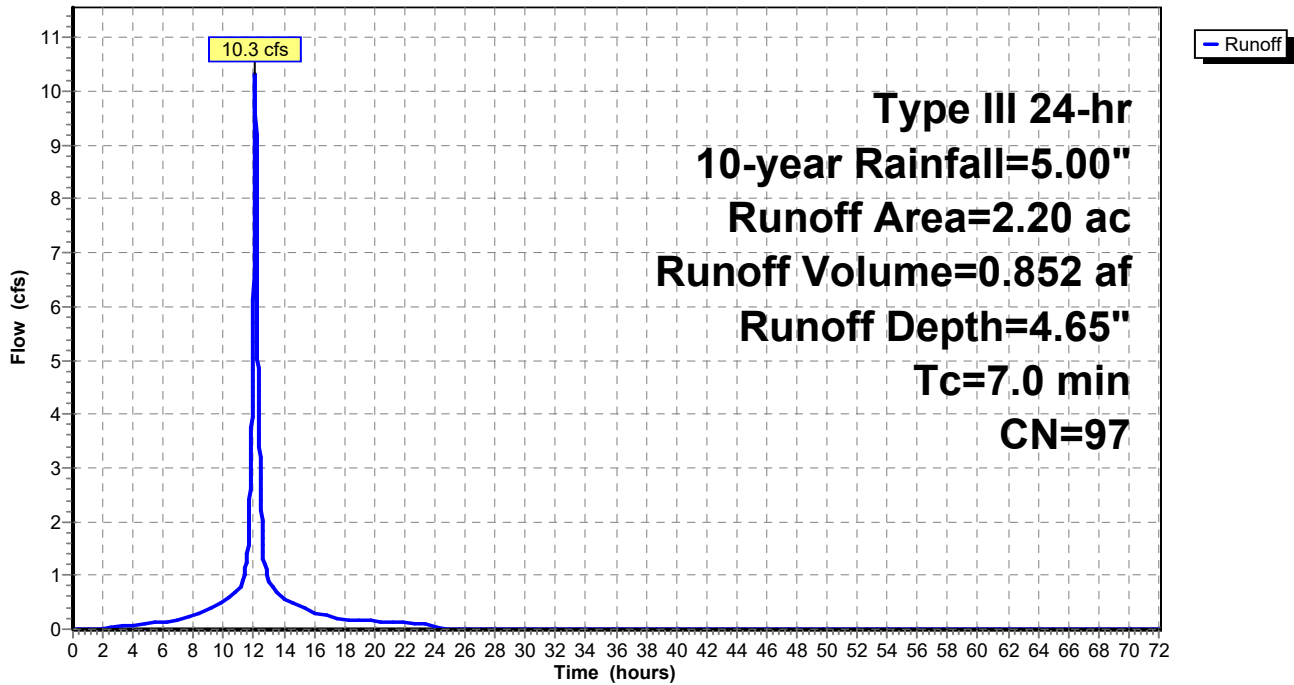
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
1.62	98	Paved parking, HSG B
0.58	94	Fallow, bare soil, HSG D
2.20	97	Weighted Average
0.58		26.36% Pervious Area
1.62		73.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E03: E03 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E03: E03 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.65	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.65	0.0
2.00	0.10	0.00	0.0	53.00	5.00	4.65	0.0
3.00	0.15	0.02	0.0	54.00	5.00	4.65	0.0
4.00	0.22	0.05	0.1	55.00	5.00	4.65	0.0
5.00	0.28	0.09	0.1	56.00	5.00	4.65	0.0
6.00	0.36	0.15	0.1	57.00	5.00	4.65	0.0
7.00	0.45	0.22	0.2	58.00	5.00	4.65	0.0
8.00	0.57	0.32	0.2	59.00	5.00	4.65	0.0
9.00	0.73	0.46	0.4	60.00	5.00	4.65	0.0
10.00	0.95	0.65	0.5	61.00	5.00	4.65	0.0
11.00	1.25	0.94	0.7	62.00	5.00	4.65	0.0
12.00	2.50	2.16	6.1	63.00	5.00	4.65	0.0
13.00	3.75	3.40	0.9	64.00	5.00	4.65	0.0
14.00	4.06	3.71	0.6	65.00	5.00	4.65	0.0
15.00	4.27	3.92	0.4	66.00	5.00	4.65	0.0
16.00	4.43	4.08	0.3	67.00	5.00	4.65	0.0
17.00	4.55	4.20	0.2	68.00	5.00	4.65	0.0
18.00	4.64	4.29	0.2	69.00	5.00	4.65	0.0
19.00	4.72	4.36	0.2	70.00	5.00	4.65	0.0
20.00	4.79	4.43	0.1	71.00	5.00	4.65	0.0
21.00	4.85	4.49	0.1	72.00	5.00	4.65	0.0
22.00	4.90	4.55	0.1				
23.00	4.95	4.60	0.1				
24.00	5.00	4.65	0.1				
25.00	5.00	4.65	0.0				
26.00	5.00	4.65	0.0				
27.00	5.00	4.65	0.0				
28.00	5.00	4.65	0.0				
29.00	5.00	4.65	0.0				
30.00	5.00	4.65	0.0				
31.00	5.00	4.65	0.0				
32.00	5.00	4.65	0.0				
33.00	5.00	4.65	0.0				
34.00	5.00	4.65	0.0				
35.00	5.00	4.65	0.0				
36.00	5.00	4.65	0.0				
37.00	5.00	4.65	0.0				
38.00	5.00	4.65	0.0				
39.00	5.00	4.65	0.0				
40.00	5.00	4.65	0.0				
41.00	5.00	4.65	0.0				
42.00	5.00	4.65	0.0				
43.00	5.00	4.65	0.0				
44.00	5.00	4.65	0.0				
45.00	5.00	4.65	0.0				
46.00	5.00	4.65	0.0				
47.00	5.00	4.65	0.0				
48.00	5.00	4.65	0.0				
49.00	5.00	4.65	0.0				
50.00	5.00	4.65	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E04: E04 (Ground Infiltration)

Runoff = 5.9 cfs @ 12.10 hrs, Volume= 0.475 af, Depth= 4.42"

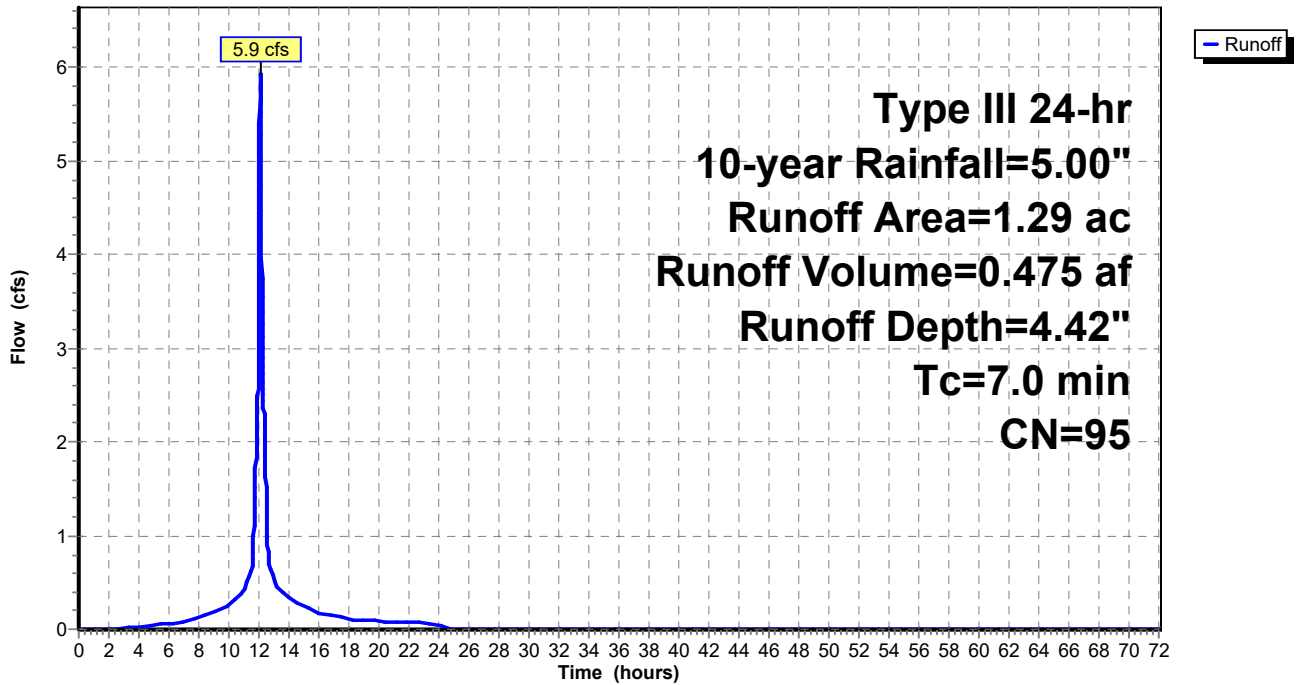
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
0.28	98	Paved parking, HSG B
1.01	94	Fallow, bare soil, HSG D
1.29	95	Weighted Average
1.01		78.29% Pervious Area
0.28		21.71% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E04: E04 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E04: E04 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.42	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.42	0.0
2.00	0.10	0.00	0.0	53.00	5.00	4.42	0.0
3.00	0.15	0.00	0.0	54.00	5.00	4.42	0.0
4.00	0.22	0.02	0.0	55.00	5.00	4.42	0.0
5.00	0.28	0.05	0.0	56.00	5.00	4.42	0.0
6.00	0.36	0.08	0.1	57.00	5.00	4.42	0.0
7.00	0.45	0.14	0.1	58.00	5.00	4.42	0.0
8.00	0.57	0.22	0.1	59.00	5.00	4.42	0.0
9.00	0.73	0.34	0.2	60.00	5.00	4.42	0.0
10.00	0.95	0.52	0.3	61.00	5.00	4.42	0.0
11.00	1.25	0.78	0.4	62.00	5.00	4.42	0.0
12.00	2.50	1.96	3.5	63.00	5.00	4.42	0.0
13.00	3.75	3.18	0.5	64.00	5.00	4.42	0.0
14.00	4.06	3.49	0.3	65.00	5.00	4.42	0.0
15.00	4.27	3.70	0.2	66.00	5.00	4.42	0.0
16.00	4.43	3.86	0.2	67.00	5.00	4.42	0.0
17.00	4.55	3.97	0.1	68.00	5.00	4.42	0.0
18.00	4.64	4.06	0.1	69.00	5.00	4.42	0.0
19.00	4.72	4.14	0.1	70.00	5.00	4.42	0.0
20.00	4.79	4.21	0.1	71.00	5.00	4.42	0.0
21.00	4.85	4.27	0.1	72.00	5.00	4.42	0.0
22.00	4.90	4.32	0.1				
23.00	4.95	4.37	0.1				
24.00	5.00	4.42	0.1				
25.00	5.00	4.42	0.0				
26.00	5.00	4.42	0.0				
27.00	5.00	4.42	0.0				
28.00	5.00	4.42	0.0				
29.00	5.00	4.42	0.0				
30.00	5.00	4.42	0.0				
31.00	5.00	4.42	0.0				
32.00	5.00	4.42	0.0				
33.00	5.00	4.42	0.0				
34.00	5.00	4.42	0.0				
35.00	5.00	4.42	0.0				
36.00	5.00	4.42	0.0				
37.00	5.00	4.42	0.0				
38.00	5.00	4.42	0.0				
39.00	5.00	4.42	0.0				
40.00	5.00	4.42	0.0				
41.00	5.00	4.42	0.0				
42.00	5.00	4.42	0.0				
43.00	5.00	4.42	0.0				
44.00	5.00	4.42	0.0				
45.00	5.00	4.42	0.0				
46.00	5.00	4.42	0.0				
47.00	5.00	4.42	0.0				
48.00	5.00	4.42	0.0				
49.00	5.00	4.42	0.0				
50.00	5.00	4.42	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E05: E05 (Offsite Draining)

Runoff = 6.7 cfs @ 12.07 hrs, Volume= 0.524 af, Depth= 4.76"

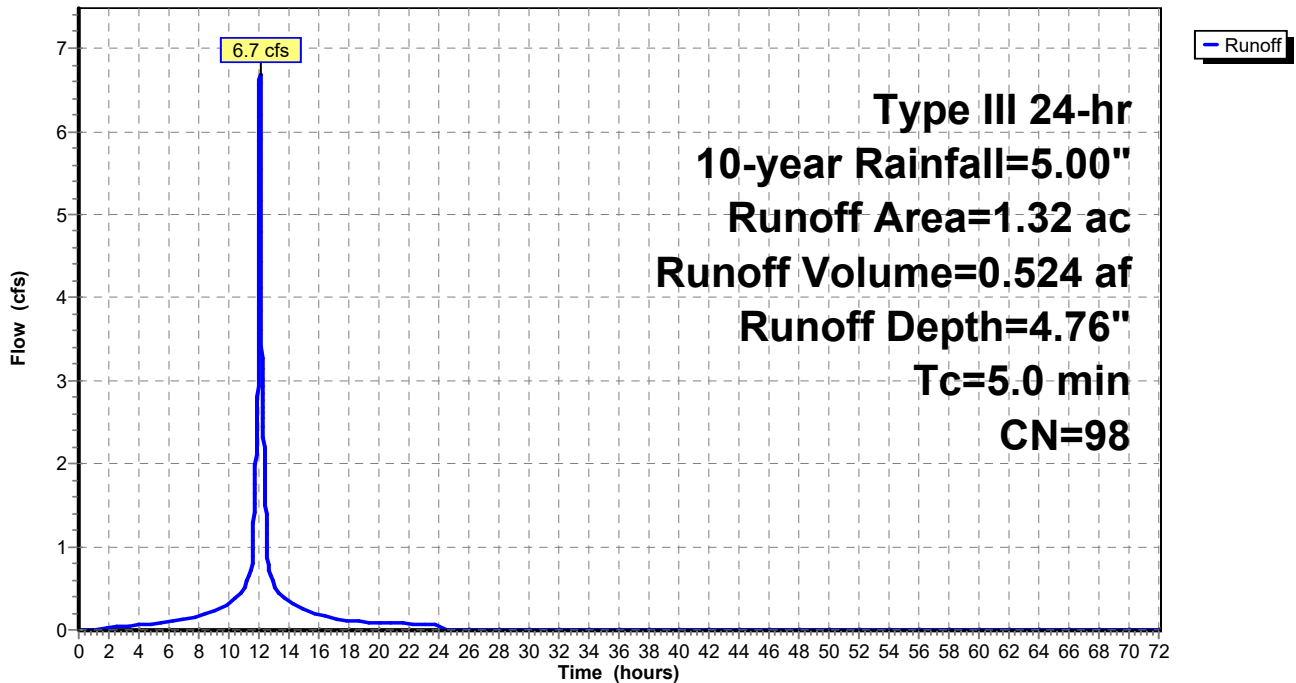
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
1.32	98	Paved parking, HSG B
1.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E05: E05 (Offsite Draining)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E05: E05 (Offsite Draining)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.0	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.0	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.1	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.1	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.1	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.2	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.2	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.3	61.00	5.00	4.76	0.0
11.00	1.25	1.03	0.5	62.00	5.00	4.76	0.0
12.00	2.50	2.27	4.5	63.00	5.00	4.76	0.0
13.00	3.75	3.52	0.5	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.3	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.3	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.2	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.1	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.1	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.1	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.1	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.1	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.1				
23.00	4.95	4.72	0.1				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment E06: E06 (Reserved Channel)

Runoff = 60.1 cfs @ 12.10 hrs, Volume= 5.045 af, Depth= 4.76"

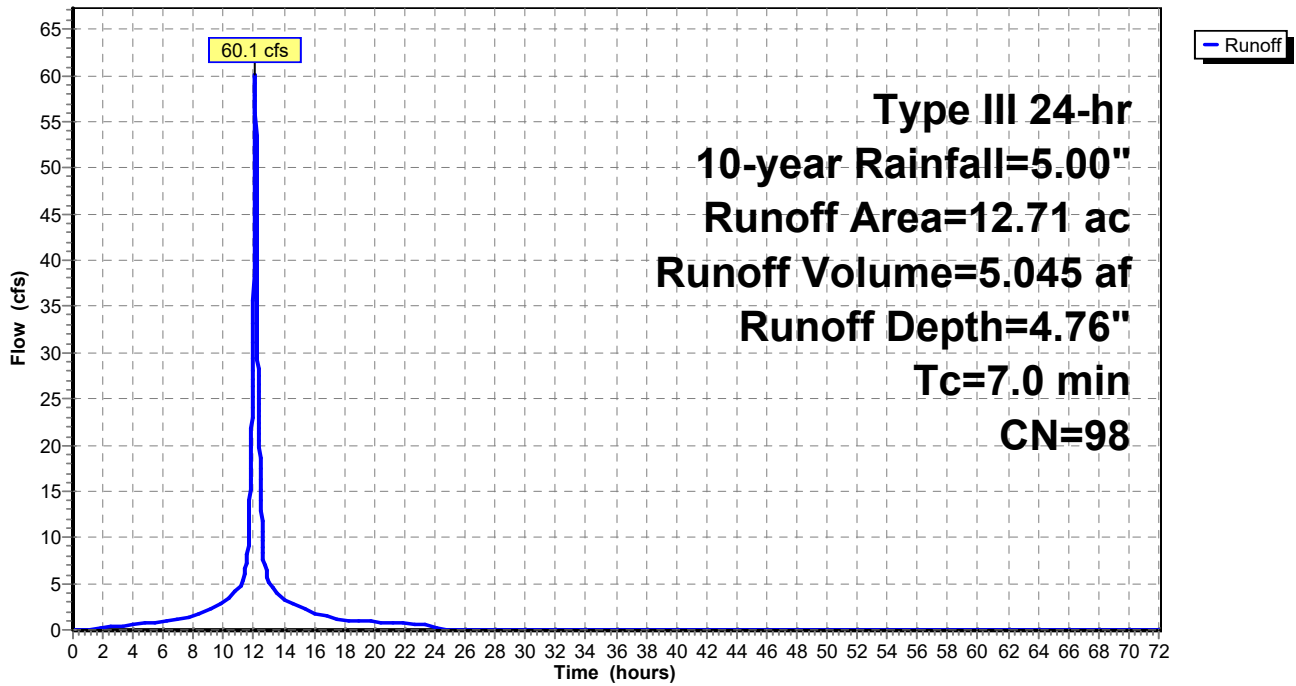
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
12.71	98	Paved parking, HSG B
12.71		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E06: E06 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Hydrograph for Subcatchment E06: E06 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.4	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.6	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.7	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.9	57.00	5.00	4.76	0.0
7.00	0.45	0.28	1.2	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.5	59.00	5.00	4.76	0.0
9.00	0.73	0.53	2.2	60.00	5.00	4.76	0.0
10.00	0.95	0.74	3.0	61.00	5.00	4.76	0.0
11.00	1.25	1.03	4.4	62.00	5.00	4.76	0.0
12.00	2.50	2.27	35.7	63.00	5.00	4.76	0.0
13.00	3.75	3.52	5.3	64.00	5.00	4.76	0.0
14.00	4.06	3.82	3.3	65.00	5.00	4.76	0.0
15.00	4.27	4.04	2.5	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.7	67.00	5.00	4.76	0.0
17.00	4.55	4.31	1.4	68.00	5.00	4.76	0.0
18.00	4.64	4.40	1.1	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.9	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.8	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.8	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.7				
23.00	4.95	4.72	0.6				
24.00	5.00	4.76	0.6				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment E07: E07 (Reserved Channel)

Runoff = 41.4 cfs @ 12.10 hrs, Volume= 3.473 af, Depth= 4.76"

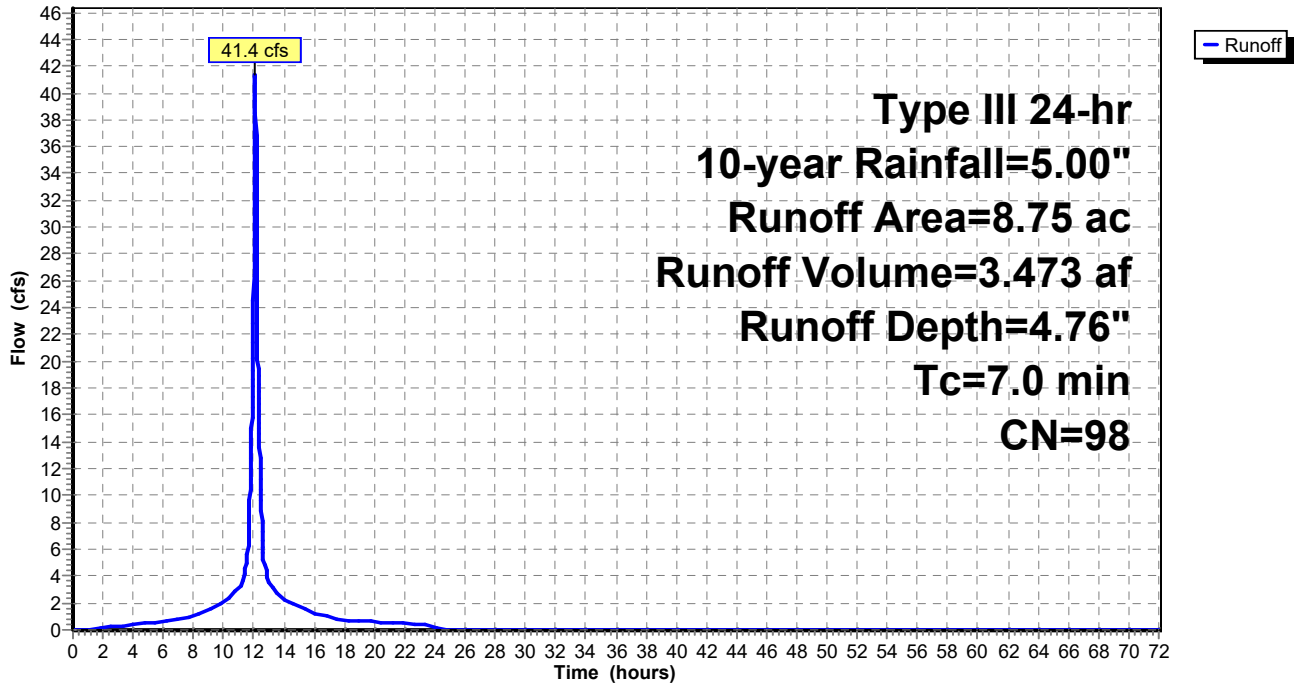
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
8.75	98	Paved parking, HSG B
8.75		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E07: E07 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Hydrograph for Subcatchment E07: E07 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.3	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.4	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.5	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.6	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.8	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.0	59.00	5.00	4.76	0.0
9.00	0.73	0.53	1.5	60.00	5.00	4.76	0.0
10.00	0.95	0.74	2.0	61.00	5.00	4.76	0.0
11.00	1.25	1.03	3.0	62.00	5.00	4.76	0.0
12.00	2.50	2.27	24.6	63.00	5.00	4.76	0.0
13.00	3.75	3.52	3.6	64.00	5.00	4.76	0.0
14.00	4.06	3.82	2.3	65.00	5.00	4.76	0.0
15.00	4.27	4.04	1.7	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.2	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.9	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.7	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.6	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.6	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.5	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.5				
23.00	4.95	4.72	0.4				
24.00	5.00	4.76	0.4				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment E08: E08 (Reserved Channel)

Runoff = 34.0 cfs @ 12.10 hrs, Volume= 2.858 af, Depth= 4.76"

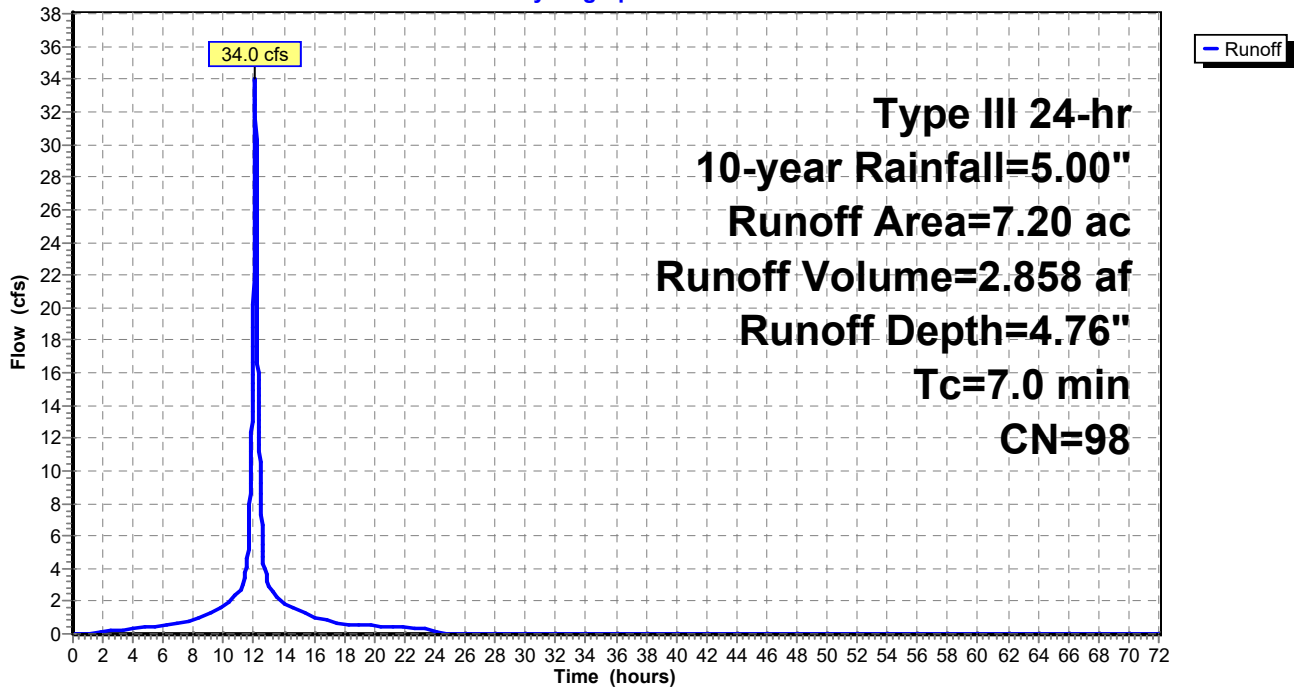
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
7.20	98	Paved parking, HSG B
7.20		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E08: E08 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Hydrograph for Subcatchment E08: E08 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.1	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.2	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.3	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.4	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.5	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.7	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.8	59.00	5.00	4.76	0.0
9.00	0.73	0.53	1.2	60.00	5.00	4.76	0.0
10.00	0.95	0.74	1.7	61.00	5.00	4.76	0.0
11.00	1.25	1.03	2.5	62.00	5.00	4.76	0.0
12.00	2.50	2.27	20.2	63.00	5.00	4.76	0.0
13.00	3.75	3.52	3.0	64.00	5.00	4.76	0.0
14.00	4.06	3.82	1.9	65.00	5.00	4.76	0.0
15.00	4.27	4.04	1.4	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.0	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.8	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.6	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.5	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.5	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.4	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.4				
23.00	4.95	4.72	0.4				
24.00	5.00	4.76	0.3				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment E09: E09 (Reserved Channel)

Runoff = 105.4 cfs @ 12.10 hrs, Volume= 8.852 af, Depth= 4.76"

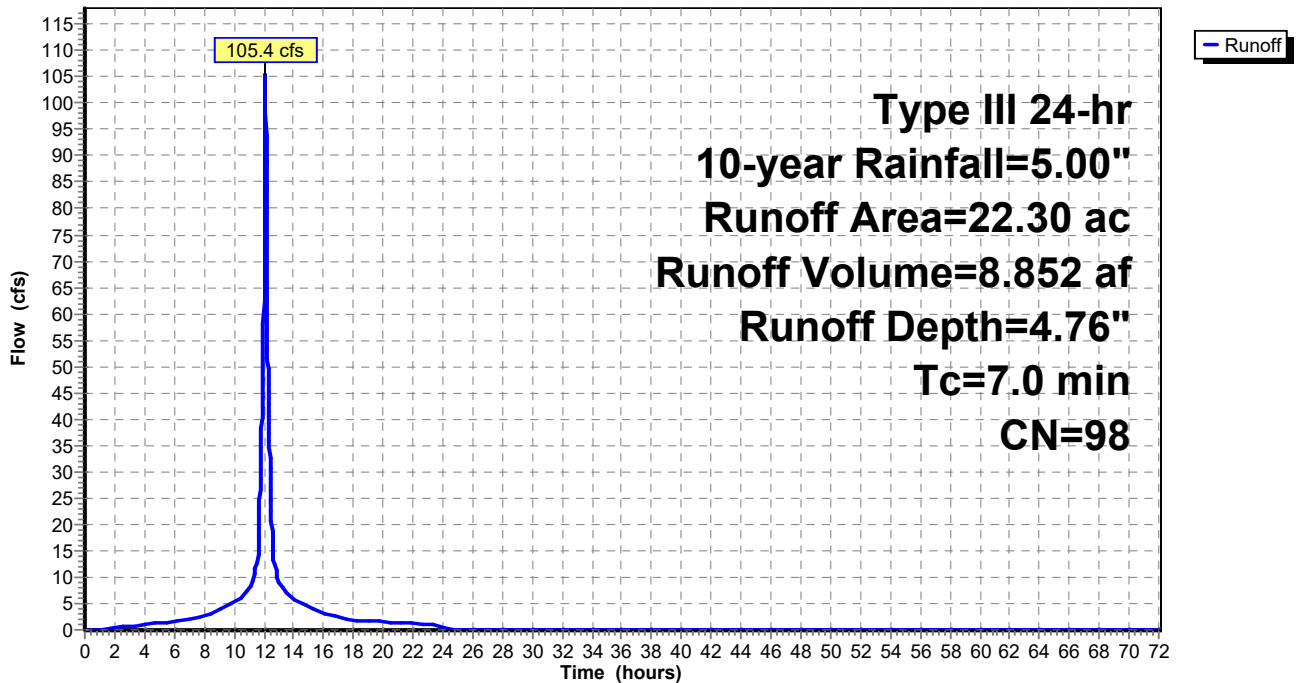
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
22.30	98	Paved parking, HSG B
22.30		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E09: E09 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Hydrograph for Subcatchment E09: E09 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.4	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.7	54.00	5.00	4.76	0.0
4.00	0.22	0.08	1.0	55.00	5.00	4.76	0.0
5.00	0.28	0.13	1.3	56.00	5.00	4.76	0.0
6.00	0.36	0.19	1.5	57.00	5.00	4.76	0.0
7.00	0.45	0.28	2.0	58.00	5.00	4.76	0.0
8.00	0.57	0.38	2.6	59.00	5.00	4.76	0.0
9.00	0.73	0.53	3.9	60.00	5.00	4.76	0.0
10.00	0.95	0.74	5.2	61.00	5.00	4.76	0.0
11.00	1.25	1.03	7.7	62.00	5.00	4.76	0.0
12.00	2.50	2.27	62.7	63.00	5.00	4.76	0.0
13.00	3.75	3.52	9.3	64.00	5.00	4.76	0.0
14.00	4.06	3.82	5.8	65.00	5.00	4.76	0.0
15.00	4.27	4.04	4.3	66.00	5.00	4.76	0.0
16.00	4.43	4.19	3.1	67.00	5.00	4.76	0.0
17.00	4.55	4.31	2.4	68.00	5.00	4.76	0.0
18.00	4.64	4.40	1.9	69.00	5.00	4.76	0.0
19.00	4.72	4.48	1.6	70.00	5.00	4.76	0.0
20.00	4.79	4.55	1.5	71.00	5.00	4.76	0.0
21.00	4.85	4.61	1.3	72.00	5.00	4.76	0.0
22.00	4.90	4.67	1.2				
23.00	4.95	4.72	1.1				
24.00	5.00	4.76	1.0				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment E10: E10 (Reserved Channel)

Runoff = 62.6 cfs @ 12.10 hrs, Volume= 5.259 af, Depth= 4.76"

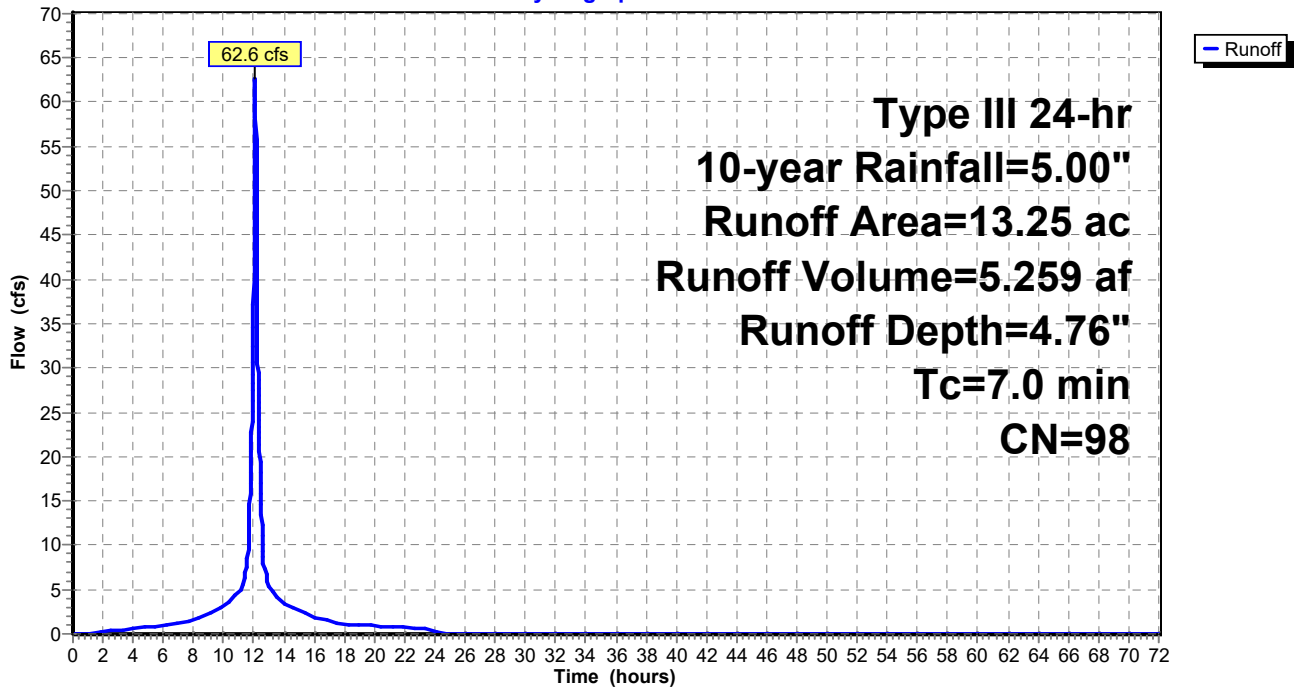
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
13.25	98	Paved parking, HSG B
13.25		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E10: E10 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Hydrograph for Subcatchment E10: E10 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.4	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.6	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.8	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.9	57.00	5.00	4.76	0.0
7.00	0.45	0.28	1.2	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.6	59.00	5.00	4.76	0.0
9.00	0.73	0.53	2.3	60.00	5.00	4.76	0.0
10.00	0.95	0.74	3.1	61.00	5.00	4.76	0.0
11.00	1.25	1.03	4.6	62.00	5.00	4.76	0.0
12.00	2.50	2.27	37.3	63.00	5.00	4.76	0.0
13.00	3.75	3.52	5.5	64.00	5.00	4.76	0.0
14.00	4.06	3.82	3.4	65.00	5.00	4.76	0.0
15.00	4.27	4.04	2.6	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.8	67.00	5.00	4.76	0.0
17.00	4.55	4.31	1.4	68.00	5.00	4.76	0.0
18.00	4.64	4.40	1.1	69.00	5.00	4.76	0.0
19.00	4.72	4.48	1.0	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.9	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.8	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.7				
23.00	4.95	4.72	0.7				
24.00	5.00	4.76	0.6				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment E11: E11 (Reserved Channel)

Runoff = 15.7 cfs @ 12.07 hrs, Volume= 1.227 af, Depth= 4.76"

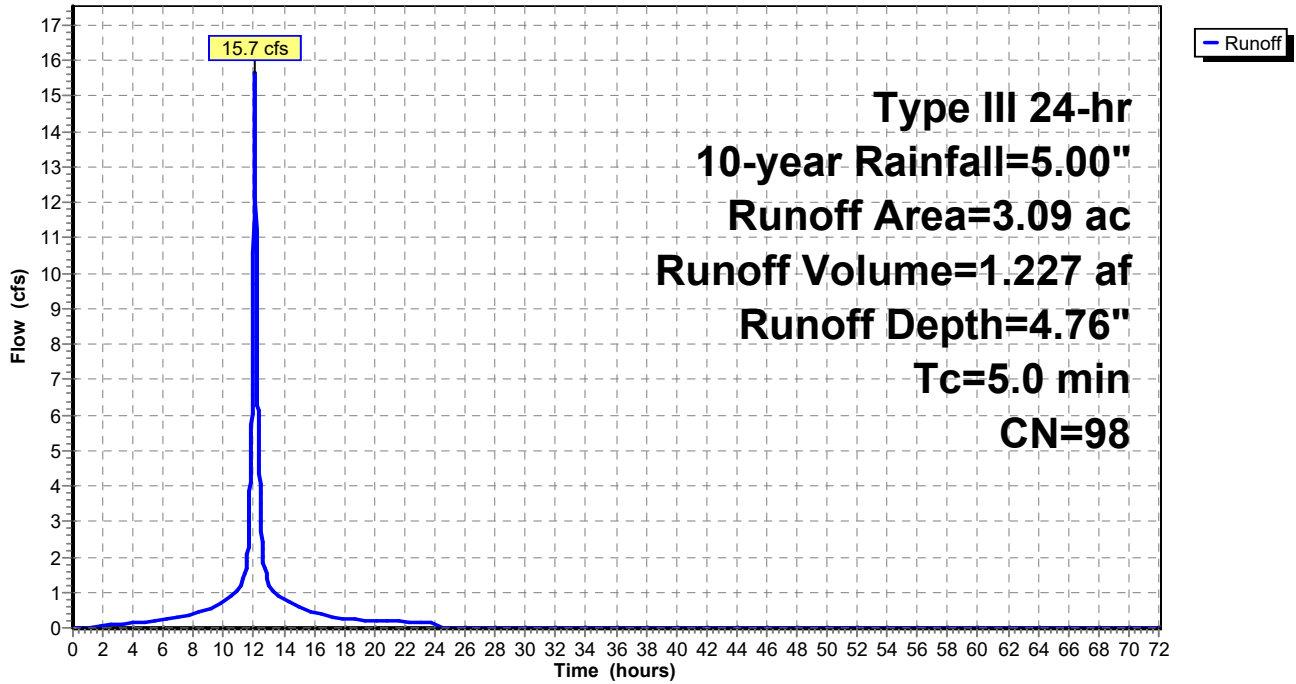
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
3.09	98	Paved parking, HSG B
3.09		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E11: E11 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E11: E11 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.1	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.1	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.2	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.2	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.3	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.4	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.5	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.7	61.00	5.00	4.76	0.0
11.00	1.25	1.03	1.1	62.00	5.00	4.76	0.0
12.00	2.50	2.27	10.6	63.00	5.00	4.76	0.0
13.00	3.75	3.52	1.2	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.8	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.6	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.4	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.3	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.3	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.2	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.2	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.2	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.2				
23.00	4.95	4.72	0.2				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E12: E12 (Reserved Channel)

Runoff = 50.4 cfs @ 12.10 hrs, Volume= 4.235 af, Depth= 4.76"

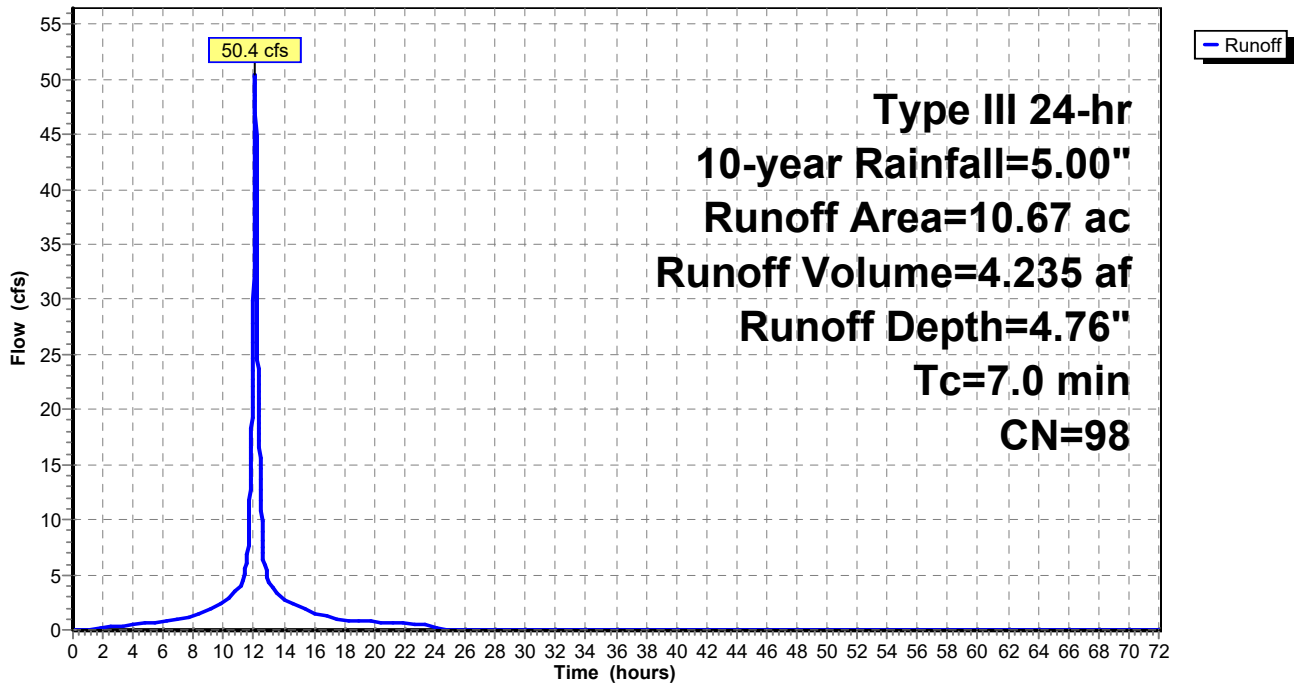
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
10.67	98	Paved parking, HSG B
10.67		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E12: E12 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E12: E12 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.3	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.5	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.6	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.7	57.00	5.00	4.76	0.0
7.00	0.45	0.28	1.0	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.3	59.00	5.00	4.76	0.0
9.00	0.73	0.53	1.8	60.00	5.00	4.76	0.0
10.00	0.95	0.74	2.5	61.00	5.00	4.76	0.0
11.00	1.25	1.03	3.7	62.00	5.00	4.76	0.0
12.00	2.50	2.27	30.0	63.00	5.00	4.76	0.0
13.00	3.75	3.52	4.5	64.00	5.00	4.76	0.0
14.00	4.06	3.82	2.8	65.00	5.00	4.76	0.0
15.00	4.27	4.04	2.1	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.5	67.00	5.00	4.76	0.0
17.00	4.55	4.31	1.2	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.9	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.8	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.7	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.6	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.6				
23.00	4.95	4.72	0.5				
24.00	5.00	4.76	0.5				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 1P: E01 (Reserved Channel)

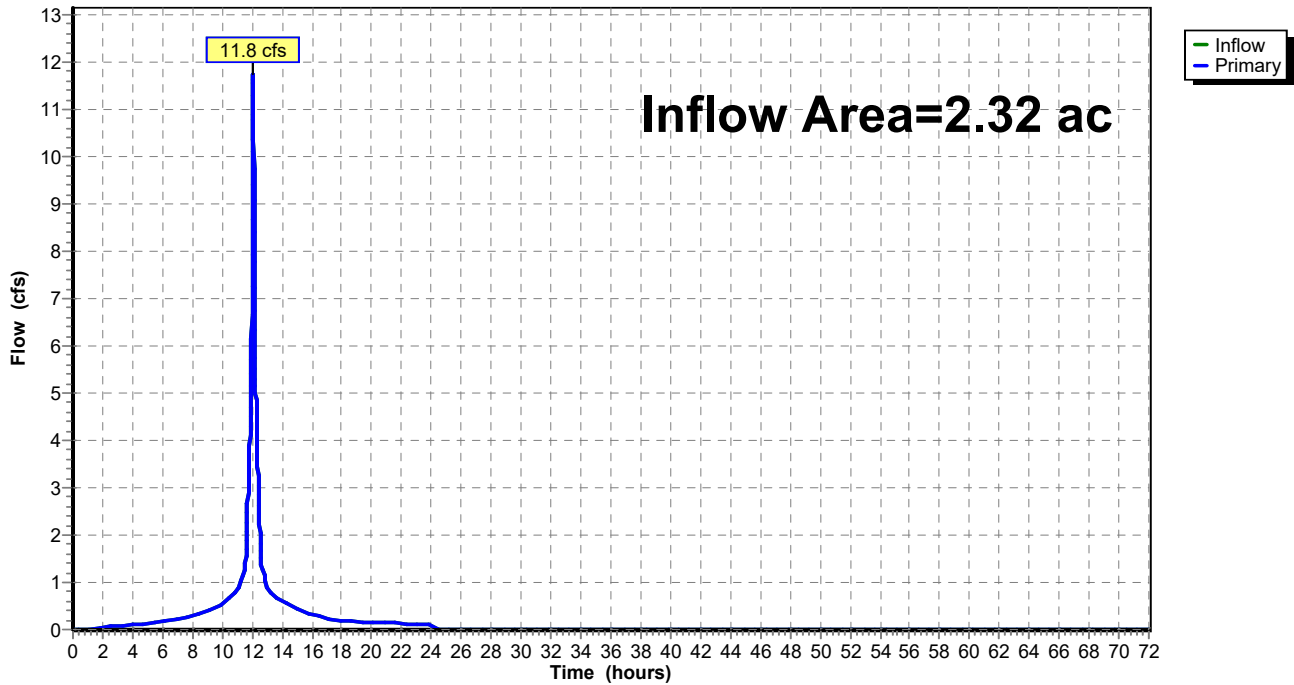
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.32 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 11.8 cfs @ 12.07 hrs, Volume= 0.921 af
Primary = 11.8 cfs @ 12.07 hrs, Volume= 0.921 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 1P: E01 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 1P: E01 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.3		0.3	59.00	0.0		0.0
9.00	0.4		0.4	60.00	0.0		0.0
10.00	0.5		0.5	61.00	0.0		0.0
11.00	0.8		0.8	62.00	0.0		0.0
12.00	7.9		7.9	63.00	0.0		0.0
13.00	0.9		0.9	64.00	0.0		0.0
14.00	0.6		0.6	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 2P: E02 (Ground Infiltration)

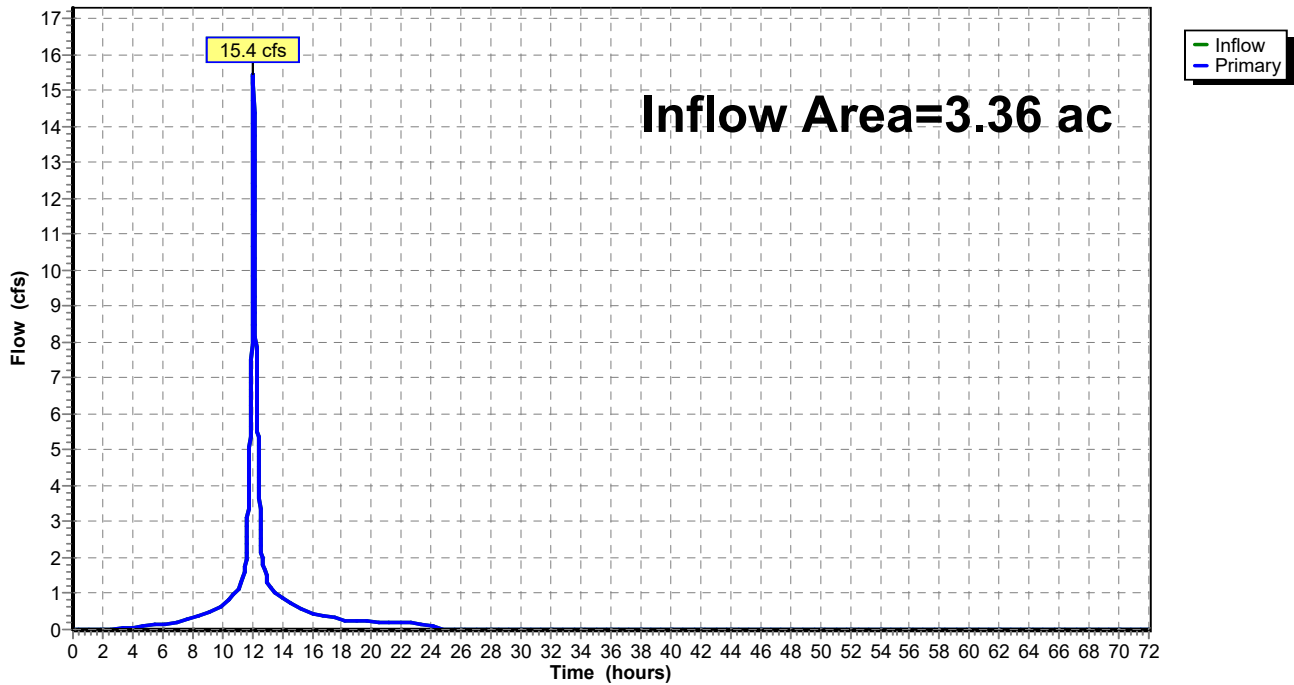
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.36 ac, 27.08% Impervious, Inflow Depth = 4.42" for 10-year event
Inflow = 15.4 cfs @ 12.10 hrs, Volume= 1.237 af
Primary = 15.4 cfs @ 12.10 hrs, Volume= 1.237 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 2P: E02 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 2P: E02 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.3		0.3	59.00	0.0		0.0
9.00	0.5		0.5	60.00	0.0		0.0
10.00	0.7		0.7	61.00	0.0		0.0
11.00	1.1		1.1	62.00	0.0		0.0
12.00	9.1		9.1	63.00	0.0		0.0
13.00	1.4		1.4	64.00	0.0		0.0
14.00	0.9		0.9	65.00	0.0		0.0
15.00	0.6		0.6	66.00	0.0		0.0
16.00	0.5		0.5	67.00	0.0		0.0
17.00	0.4		0.4	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 3P: E03 (Ground Infiltration)

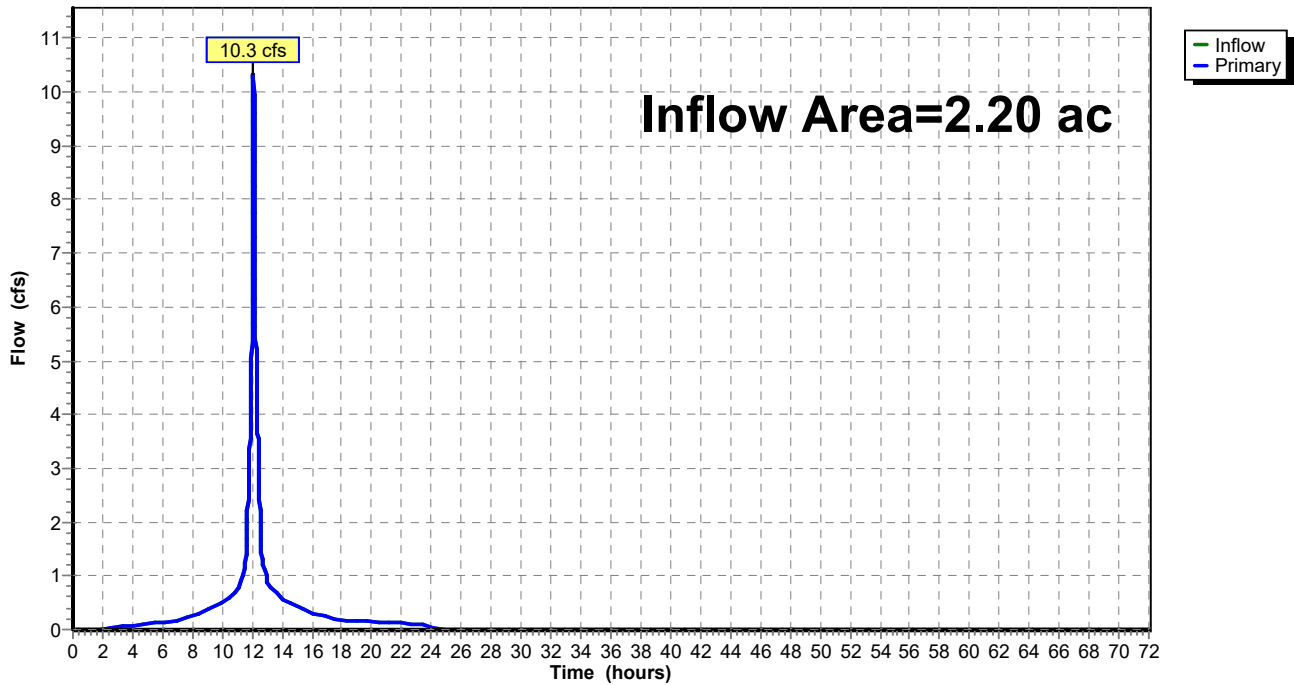
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.20 ac, 73.64% Impervious, Inflow Depth = 4.65" for 10-year event
Inflow = 10.3 cfs @ 12.10 hrs, Volume= 0.852 af
Primary = 10.3 cfs @ 12.10 hrs, Volume= 0.852 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 3P: E03 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 3P: E03 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.4		0.4	60.00	0.0		0.0
10.00	0.5		0.5	61.00	0.0		0.0
11.00	0.7		0.7	62.00	0.0		0.0
12.00	6.1		6.1	63.00	0.0		0.0
13.00	0.9		0.9	64.00	0.0		0.0
14.00	0.6		0.6	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Pond 4P: E04 (Ground Infiltration)

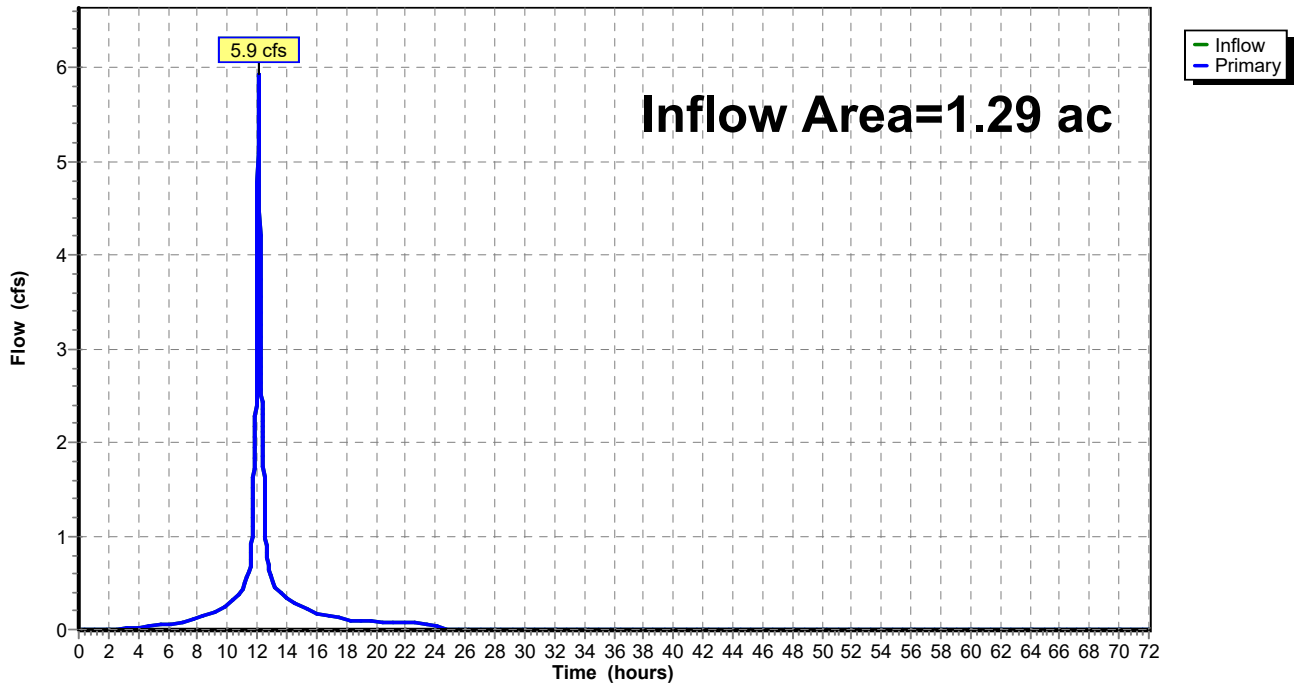
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.29 ac, 21.71% Impervious, Inflow Depth = 4.42" for 10-year event
Inflow = 5.9 cfs @ 12.10 hrs, Volume= 0.475 af
Primary = 5.9 cfs @ 12.10 hrs, Volume= 0.475 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 4P: E04 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 4P: E04 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.0		0.0	55.00	0.0		0.0
5.00	0.0		0.0	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.1		0.1	59.00	0.0		0.0
9.00	0.2		0.2	60.00	0.0		0.0
10.00	0.3		0.3	61.00	0.0		0.0
11.00	0.4		0.4	62.00	0.0		0.0
12.00	3.5		3.5	63.00	0.0		0.0
13.00	0.5		0.5	64.00	0.0		0.0
14.00	0.3		0.3	65.00	0.0		0.0
15.00	0.2		0.2	66.00	0.0		0.0
16.00	0.2		0.2	67.00	0.0		0.0
17.00	0.1		0.1	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 5P: E05 (Offsite Draining)

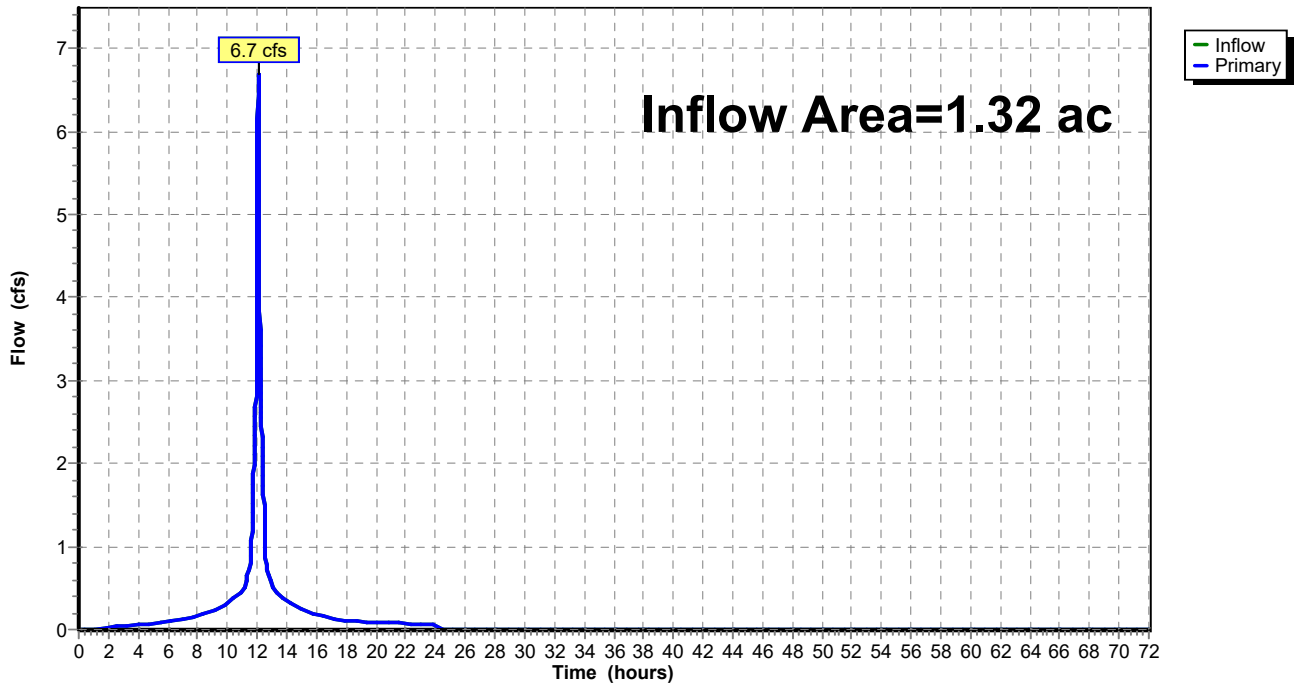
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.32 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 6.7 cfs @ 12.07 hrs, Volume= 0.524 af
Primary = 6.7 cfs @ 12.07 hrs, Volume= 0.524 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 5P: E05 (Offsite Draining)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 5P: E05 (Offsite Draining)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.2		0.2	60.00	0.0		0.0
10.00	0.3		0.3	61.00	0.0		0.0
11.00	0.5		0.5	62.00	0.0		0.0
12.00	4.5		4.5	63.00	0.0		0.0
13.00	0.5		0.5	64.00	0.0		0.0
14.00	0.3		0.3	65.00	0.0		0.0
15.00	0.3		0.3	66.00	0.0		0.0
16.00	0.2		0.2	67.00	0.0		0.0
17.00	0.1		0.1	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 6P: E06 (Reserved Channel)

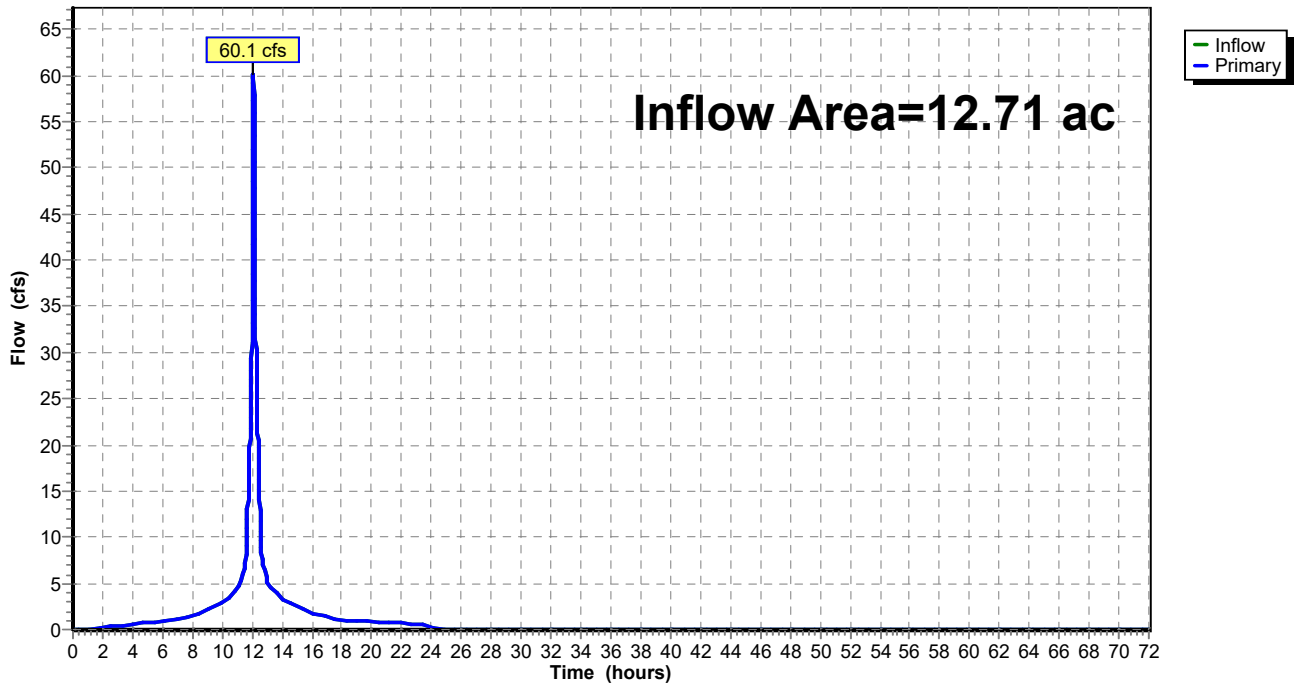
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.71 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 60.1 cfs @ 12.10 hrs, Volume= 5.045 af
Primary = 60.1 cfs @ 12.10 hrs, Volume= 5.045 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 6P: E06 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 6P: E06 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.4		0.4	54.00	0.0		0.0
4.00	0.6		0.6	55.00	0.0		0.0
5.00	0.7		0.7	56.00	0.0		0.0
6.00	0.9		0.9	57.00	0.0		0.0
7.00	1.2		1.2	58.00	0.0		0.0
8.00	1.5		1.5	59.00	0.0		0.0
9.00	2.2		2.2	60.00	0.0		0.0
10.00	3.0		3.0	61.00	0.0		0.0
11.00	4.4		4.4	62.00	0.0		0.0
12.00	35.7		35.7	63.00	0.0		0.0
13.00	5.3		5.3	64.00	0.0		0.0
14.00	3.3		3.3	65.00	0.0		0.0
15.00	2.5		2.5	66.00	0.0		0.0
16.00	1.7		1.7	67.00	0.0		0.0
17.00	1.4		1.4	68.00	0.0		0.0
18.00	1.1		1.1	69.00	0.0		0.0
19.00	0.9		0.9	70.00	0.0		0.0
20.00	0.8		0.8	71.00	0.0		0.0
21.00	0.8		0.8	72.00	0.0		0.0
22.00	0.7		0.7				
23.00	0.6		0.6				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 7P: E07 (Reserved Channel)

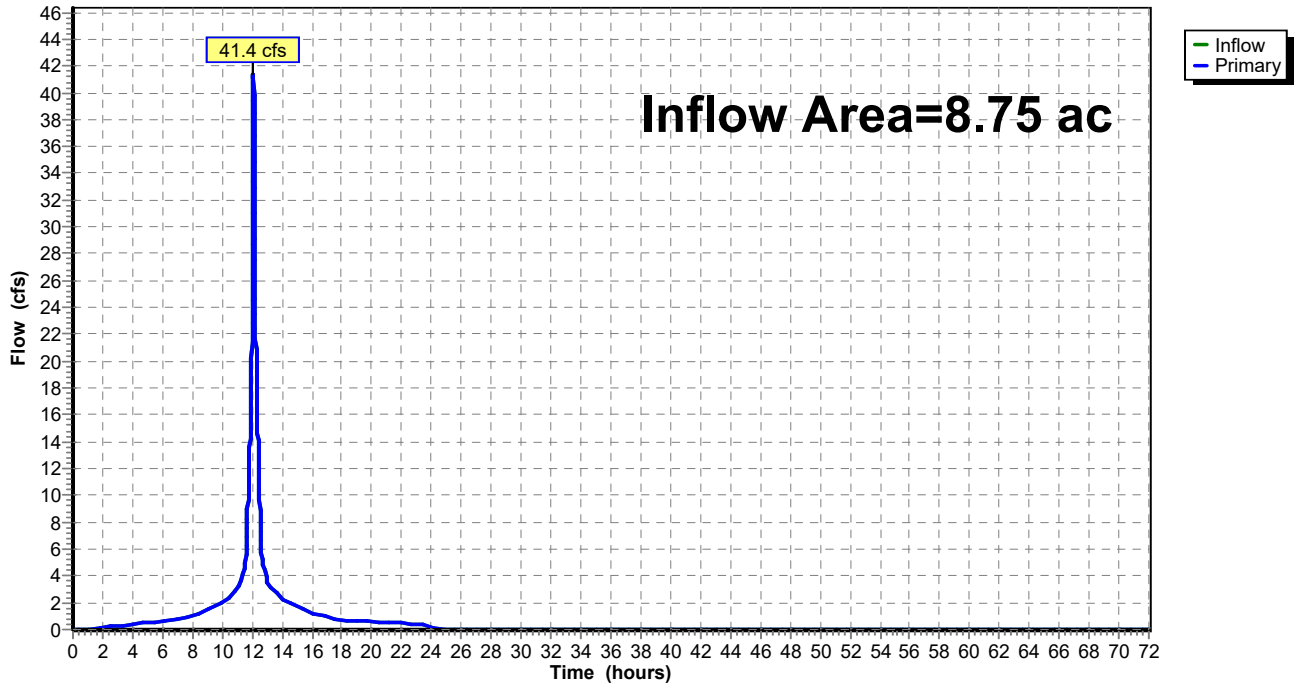
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 8.75 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 41.4 cfs @ 12.10 hrs, Volume= 3.473 af
Primary = 41.4 cfs @ 12.10 hrs, Volume= 3.473 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 7P: E07 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 7P: E07 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.3		0.3	54.00	0.0		0.0
4.00	0.4		0.4	55.00	0.0		0.0
5.00	0.5		0.5	56.00	0.0		0.0
6.00	0.6		0.6	57.00	0.0		0.0
7.00	0.8		0.8	58.00	0.0		0.0
8.00	1.0		1.0	59.00	0.0		0.0
9.00	1.5		1.5	60.00	0.0		0.0
10.00	2.0		2.0	61.00	0.0		0.0
11.00	3.0		3.0	62.00	0.0		0.0
12.00	24.6		24.6	63.00	0.0		0.0
13.00	3.6		3.6	64.00	0.0		0.0
14.00	2.3		2.3	65.00	0.0		0.0
15.00	1.7		1.7	66.00	0.0		0.0
16.00	1.2		1.2	67.00	0.0		0.0
17.00	0.9		0.9	68.00	0.0		0.0
18.00	0.7		0.7	69.00	0.0		0.0
19.00	0.6		0.6	70.00	0.0		0.0
20.00	0.6		0.6	71.00	0.0		0.0
21.00	0.5		0.5	72.00	0.0		0.0
22.00	0.5		0.5				
23.00	0.4		0.4				
24.00	0.4		0.4				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 8P: E08 (Reserved Channel)

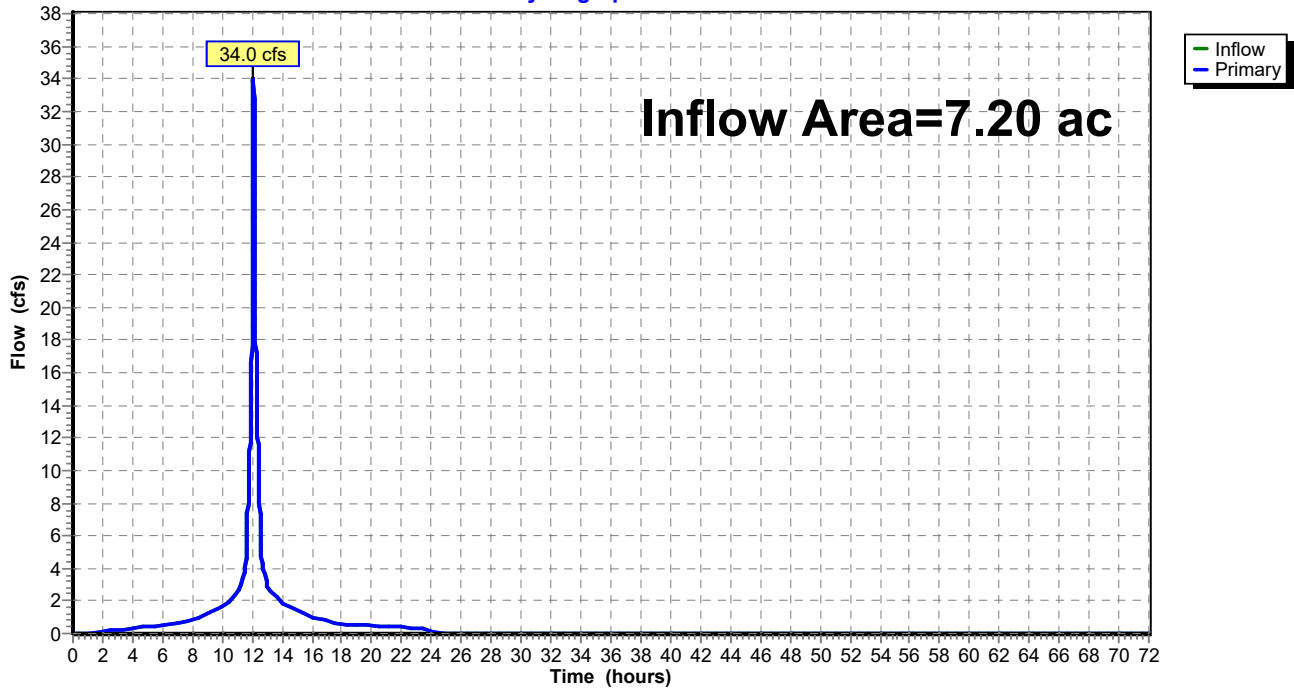
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.20 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 34.0 cfs @ 12.10 hrs, Volume= 2.858 af
Primary = 34.0 cfs @ 12.10 hrs, Volume= 2.858 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 8P: E08 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 8P: E08 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.4		0.4	56.00	0.0		0.0
6.00	0.5		0.5	57.00	0.0		0.0
7.00	0.7		0.7	58.00	0.0		0.0
8.00	0.8		0.8	59.00	0.0		0.0
9.00	1.2		1.2	60.00	0.0		0.0
10.00	1.7		1.7	61.00	0.0		0.0
11.00	2.5		2.5	62.00	0.0		0.0
12.00	20.2		20.2	63.00	0.0		0.0
13.00	3.0		3.0	64.00	0.0		0.0
14.00	1.9		1.9	65.00	0.0		0.0
15.00	1.4		1.4	66.00	0.0		0.0
16.00	1.0		1.0	67.00	0.0		0.0
17.00	0.8		0.8	68.00	0.0		0.0
18.00	0.6		0.6	69.00	0.0		0.0
19.00	0.5		0.5	70.00	0.0		0.0
20.00	0.5		0.5	71.00	0.0		0.0
21.00	0.4		0.4	72.00	0.0		0.0
22.00	0.4		0.4				
23.00	0.4		0.4				
24.00	0.3		0.3				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 9P: E09 (Reserved Channel)

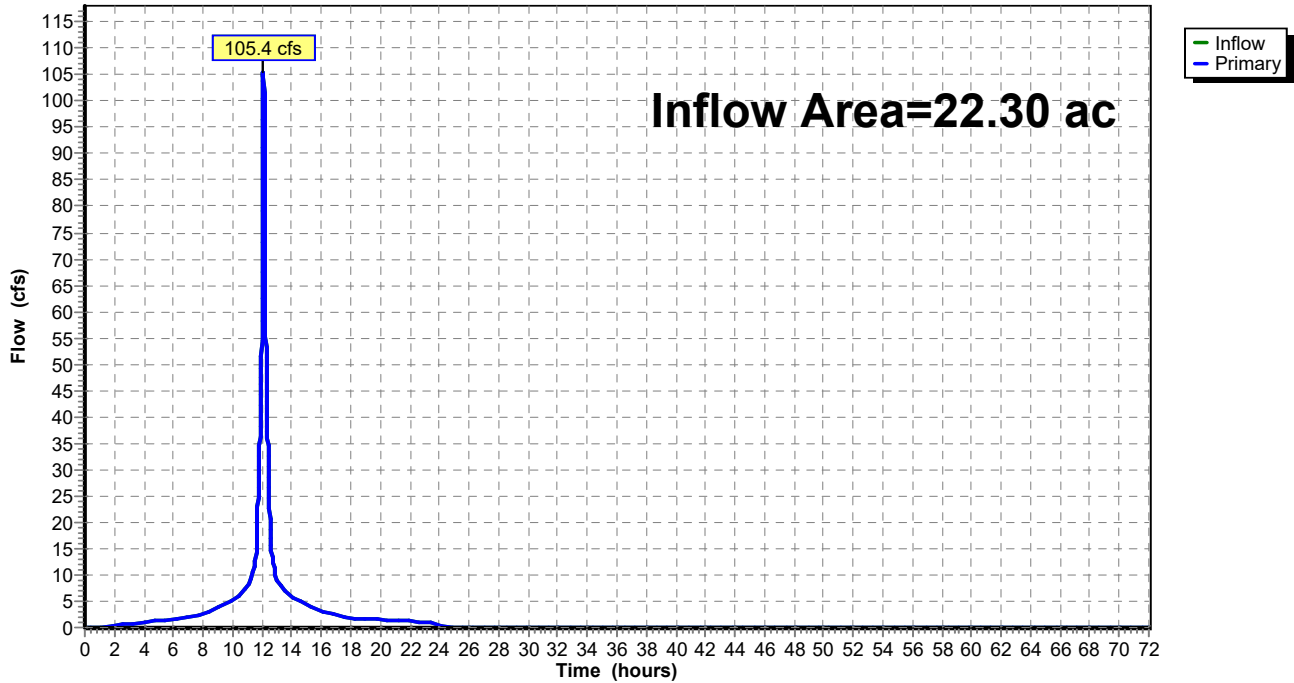
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.30 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 105.4 cfs @ 12.10 hrs, Volume= 8.852 af
Primary = 105.4 cfs @ 12.10 hrs, Volume= 8.852 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 9P: E09 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 9P: E09 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.4		0.4	53.00	0.0		0.0
3.00	0.7		0.7	54.00	0.0		0.0
4.00	1.0		1.0	55.00	0.0		0.0
5.00	1.3		1.3	56.00	0.0		0.0
6.00	1.5		1.5	57.00	0.0		0.0
7.00	2.0		2.0	58.00	0.0		0.0
8.00	2.6		2.6	59.00	0.0		0.0
9.00	3.9		3.9	60.00	0.0		0.0
10.00	5.2		5.2	61.00	0.0		0.0
11.00	7.7		7.7	62.00	0.0		0.0
12.00	62.7		62.7	63.00	0.0		0.0
13.00	9.3		9.3	64.00	0.0		0.0
14.00	5.8		5.8	65.00	0.0		0.0
15.00	4.3		4.3	66.00	0.0		0.0
16.00	3.1		3.1	67.00	0.0		0.0
17.00	2.4		2.4	68.00	0.0		0.0
18.00	1.9		1.9	69.00	0.0		0.0
19.00	1.6		1.6	70.00	0.0		0.0
20.00	1.5		1.5	71.00	0.0		0.0
21.00	1.3		1.3	72.00	0.0		0.0
22.00	1.2		1.2				
23.00	1.1		1.1				
24.00	1.0		1.0				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

Prepared by HDR, Inc

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Summary for Pond 10P: E10 (Reserved Channel)

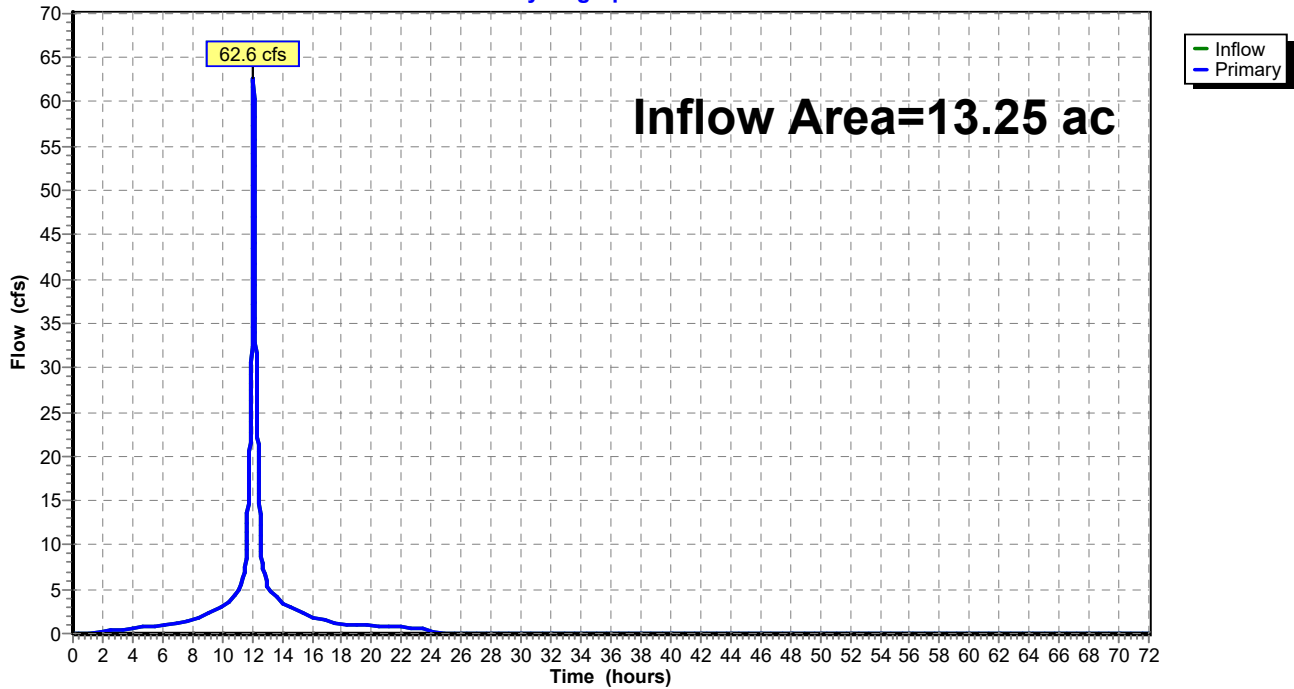
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.25 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 62.6 cfs @ 12.10 hrs, Volume= 5.259 af
Primary = 62.6 cfs @ 12.10 hrs, Volume= 5.259 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 10P: E10 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 10P: E10 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.4		0.4	54.00	0.0		0.0
4.00	0.6		0.6	55.00	0.0		0.0
5.00	0.8		0.8	56.00	0.0		0.0
6.00	0.9		0.9	57.00	0.0		0.0
7.00	1.2		1.2	58.00	0.0		0.0
8.00	1.6		1.6	59.00	0.0		0.0
9.00	2.3		2.3	60.00	0.0		0.0
10.00	3.1		3.1	61.00	0.0		0.0
11.00	4.6		4.6	62.00	0.0		0.0
12.00	37.3		37.3	63.00	0.0		0.0
13.00	5.5		5.5	64.00	0.0		0.0
14.00	3.4		3.4	65.00	0.0		0.0
15.00	2.6		2.6	66.00	0.0		0.0
16.00	1.8		1.8	67.00	0.0		0.0
17.00	1.4		1.4	68.00	0.0		0.0
18.00	1.1		1.1	69.00	0.0		0.0
19.00	1.0		1.0	70.00	0.0		0.0
20.00	0.9		0.9	71.00	0.0		0.0
21.00	0.8		0.8	72.00	0.0		0.0
22.00	0.7		0.7				
23.00	0.7		0.7				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 11P: E11 (Reserved Channel)

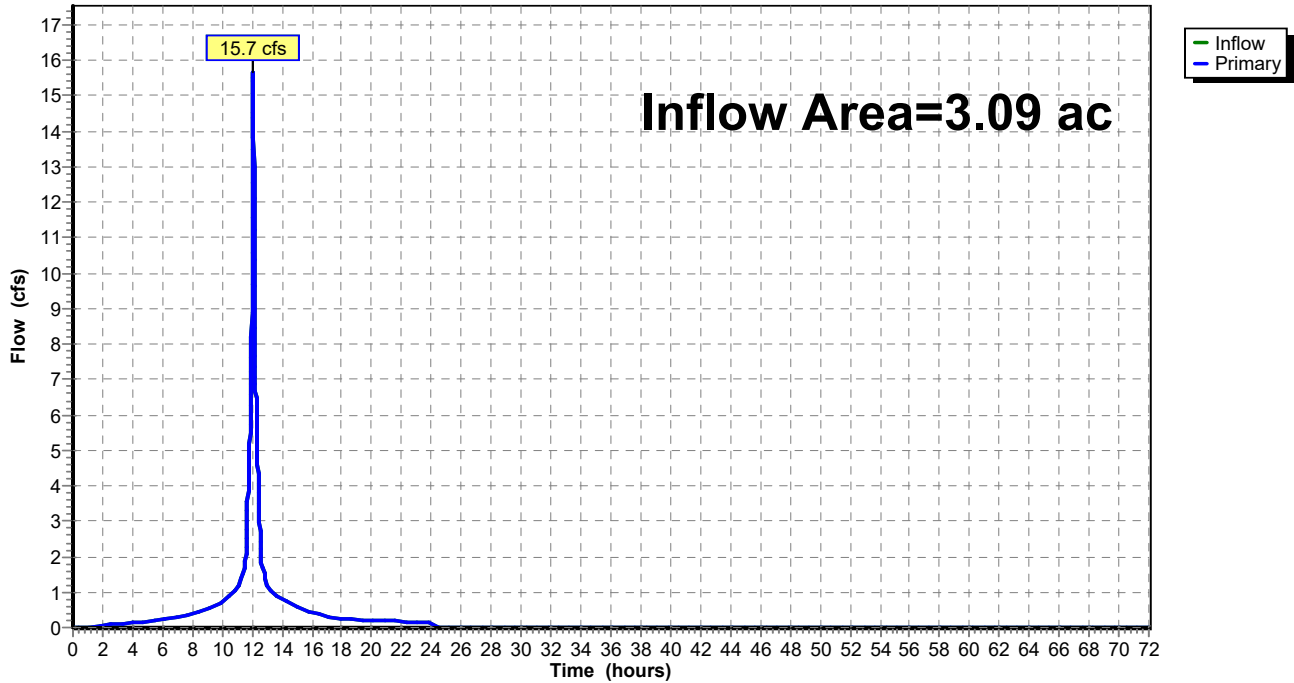
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.09 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 15.7 cfs @ 12.07 hrs, Volume= 1.227 af
Primary = 15.7 cfs @ 12.07 hrs, Volume= 1.227 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 11P: E11 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 11P: E11 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.3		0.3	58.00	0.0		0.0
8.00	0.4		0.4	59.00	0.0		0.0
9.00	0.5		0.5	60.00	0.0		0.0
10.00	0.7		0.7	61.00	0.0		0.0
11.00	1.1		1.1	62.00	0.0		0.0
12.00	10.6		10.6	63.00	0.0		0.0
13.00	1.2		1.2	64.00	0.0		0.0
14.00	0.8		0.8	65.00	0.0		0.0
15.00	0.6		0.6	66.00	0.0		0.0
16.00	0.4		0.4	67.00	0.0		0.0
17.00	0.3		0.3	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 12P: E12 (Reserved Channel)

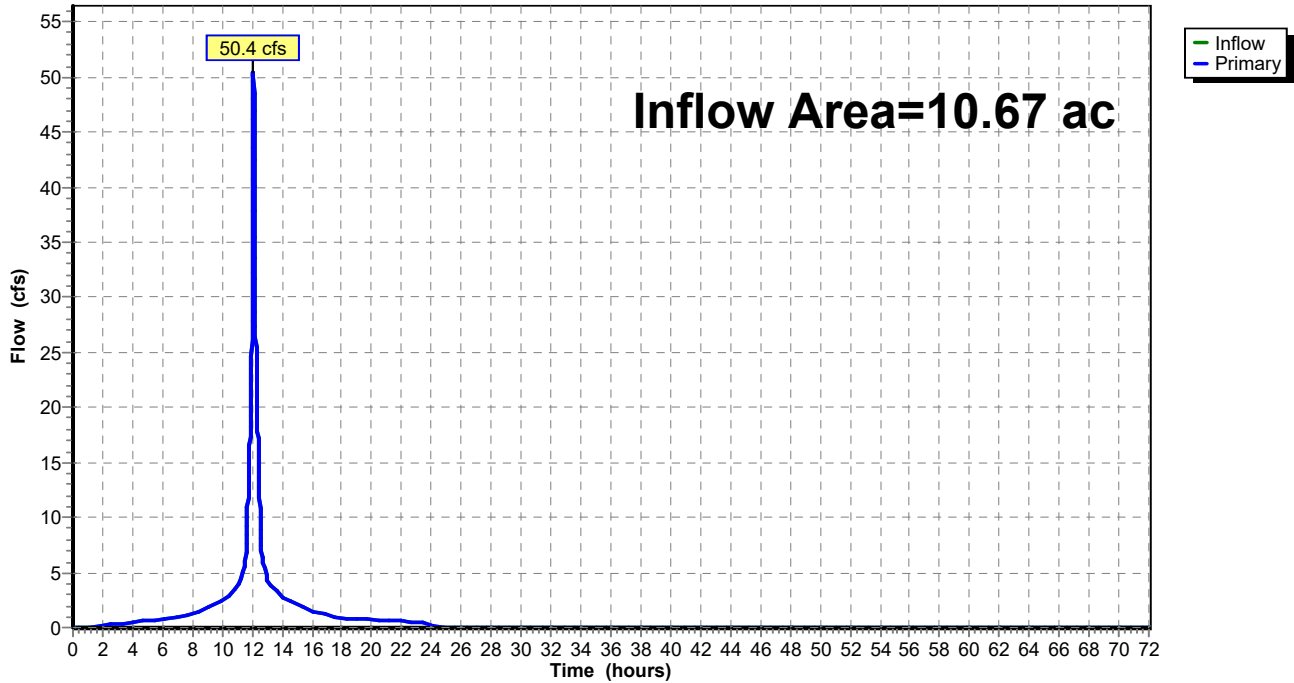
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.67 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 50.4 cfs @ 12.10 hrs, Volume= 4.235 af
Primary = 50.4 cfs @ 12.10 hrs, Volume= 4.235 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 12P: E12 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 12P: E12 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.3		0.3	54.00	0.0		0.0
4.00	0.5		0.5	55.00	0.0		0.0
5.00	0.6		0.6	56.00	0.0		0.0
6.00	0.7		0.7	57.00	0.0		0.0
7.00	1.0		1.0	58.00	0.0		0.0
8.00	1.3		1.3	59.00	0.0		0.0
9.00	1.8		1.8	60.00	0.0		0.0
10.00	2.5		2.5	61.00	0.0		0.0
11.00	3.7		3.7	62.00	0.0		0.0
12.00	30.0		30.0	63.00	0.0		0.0
13.00	4.5		4.5	64.00	0.0		0.0
14.00	2.8		2.8	65.00	0.0		0.0
15.00	2.1		2.1	66.00	0.0		0.0
16.00	1.5		1.5	67.00	0.0		0.0
17.00	1.2		1.2	68.00	0.0		0.0
18.00	0.9		0.9	69.00	0.0		0.0
19.00	0.8		0.8	70.00	0.0		0.0
20.00	0.7		0.7	71.00	0.0		0.0
21.00	0.6		0.6	72.00	0.0		0.0
22.00	0.6		0.6				
23.00	0.5		0.5				
24.00	0.5		0.5				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

Printed 2/25/2021

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentE01: E01 (Reserved)	Runoff Area=2.32 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=18.6 cfs 1.481 af
SubcatchmentE02: E02 (Ground Infiltration)	Runoff Area=3.36 ac 27.08% Impervious Runoff Depth=7.30" Tc=7.0 min CN=95 Runoff=24.9 cfs 2.044 af
SubcatchmentE03: E03 (Ground Infiltration)	Runoff Area=2.20 ac 73.64% Impervious Runoff Depth=7.54" Tc=7.0 min CN=97 Runoff=16.4 cfs 1.382 af
SubcatchmentE04: E04 (Ground Infiltration)	Runoff Area=1.29 ac 21.71% Impervious Runoff Depth=7.30" Tc=7.0 min CN=95 Runoff=9.6 cfs 0.785 af
SubcatchmentE05: E05 (Offsite Draining)	Runoff Area=1.32 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=10.6 cfs 0.843 af
SubcatchmentE06: E06 (Reserved)	Runoff Area=12.71 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=95.3 cfs 8.113 af
SubcatchmentE07: E07 (Reserved)	Runoff Area=8.75 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=65.6 cfs 5.586 af
SubcatchmentE08: E08 (Reserved)	Runoff Area=7.20 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=54.0 cfs 4.596 af
SubcatchmentE09: E09 (Reserved)	Runoff Area=22.30 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=167.2 cfs 14.235 af
SubcatchmentE10: E10 (Reserved)	Runoff Area=13.25 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=99.3 cfs 8.458 af
SubcatchmentE11: E11 (Reserved)	Runoff Area=3.09 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=24.8 cfs 1.973 af
SubcatchmentE12: E12 (Reserved)	Runoff Area=10.67 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=80.0 cfs 6.811 af
Pond 1P: E01 (Reserved Channel)	Inflow=18.6 cfs 1.481 af Primary=18.6 cfs 1.481 af
Pond 2P: E02 (Ground Infiltration)	Inflow=24.9 cfs 2.044 af Primary=24.9 cfs 2.044 af
Pond 3P: E03 (Ground Infiltration)	Inflow=16.4 cfs 1.382 af Primary=16.4 cfs 1.382 af
Pond 4P: E04 (Ground Infiltration)	Inflow=9.6 cfs 0.785 af Primary=9.6 cfs 0.785 af

Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

Printed 2/25/2021

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Pond 5P: E05 (Offsite Draining)

Inflow=10.6 cfs 0.843 af
Primary=10.6 cfs 0.843 af

Pond 6P: E06 (Reserved Channel)

Inflow=95.3 cfs 8.113 af
Primary=95.3 cfs 8.113 af

Pond 7P: E07 (Reserved Channel)

Inflow=65.6 cfs 5.586 af
Primary=65.6 cfs 5.586 af

Pond 8P: E08 (Reserved Channel)

Inflow=54.0 cfs 4.596 af
Primary=54.0 cfs 4.596 af

Pond 9P: E09 (Reserved Channel)

Inflow=167.2 cfs 14.235 af
Primary=167.2 cfs 14.235 af

Pond 10P: E10 (Reserved Channel)

Inflow=99.3 cfs 8.458 af
Primary=99.3 cfs 8.458 af

Pond 11P: E11 (Reserved Channel)

Inflow=24.8 cfs 1.973 af
Primary=24.8 cfs 1.973 af

Pond 12P: E12 (Reserved Channel)

Inflow=80.0 cfs 6.811 af
Primary=80.0 cfs 6.811 af

Total Runoff Area = 88.46 ac Runoff Volume = 56.308 af Average Runoff Depth = 7.64"
4.57% Pervious = 4.04 ac 95.43% Impervious = 84.42 ac

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E01: E01 (Reserved Channel)

Runoff = 18.6 cfs @ 12.07 hrs, Volume= 1.481 af, Depth= 7.66"

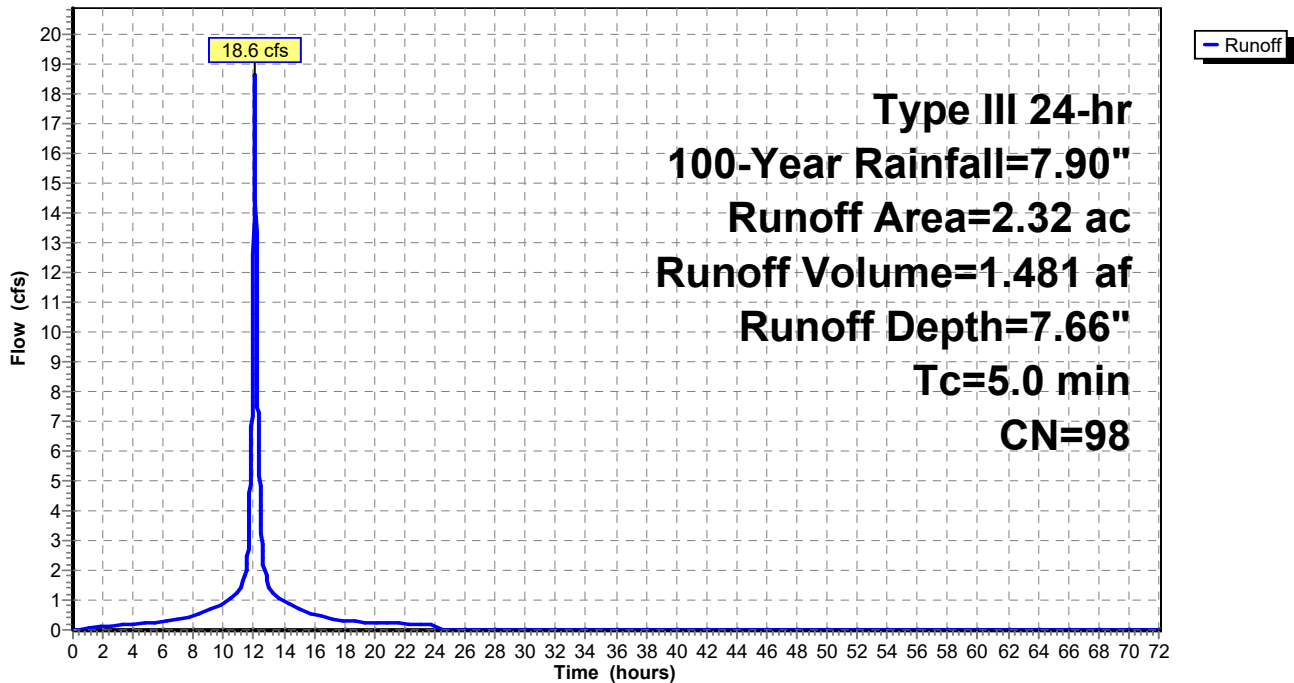
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
2.32	98	Paved parking, HSG B
2.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E01: E01 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E01: E01 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.0	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.1	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.2	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.2	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.2	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.3	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.4	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.5	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.7	60.00	7.90	7.66	0.0
10.00	1.49	1.27	0.9	61.00	7.90	7.66	0.0
11.00	1.97	1.75	1.3	62.00	7.90	7.66	0.0
12.00	3.95	3.72	12.6	63.00	7.90	7.66	0.0
13.00	5.92	5.69	1.5	64.00	7.90	7.66	0.0
14.00	6.41	6.17	0.9	65.00	7.90	7.66	0.0
15.00	6.75	6.51	0.7	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.5	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.4	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.3	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.3	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.2	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.2	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.2				
23.00	7.83	7.59	0.2				
24.00	7.90	7.66	0.2				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E02: E02 (Ground Infiltration)

Runoff = 24.9 cfs @ 12.10 hrs, Volume= 2.044 af, Depth= 7.30"

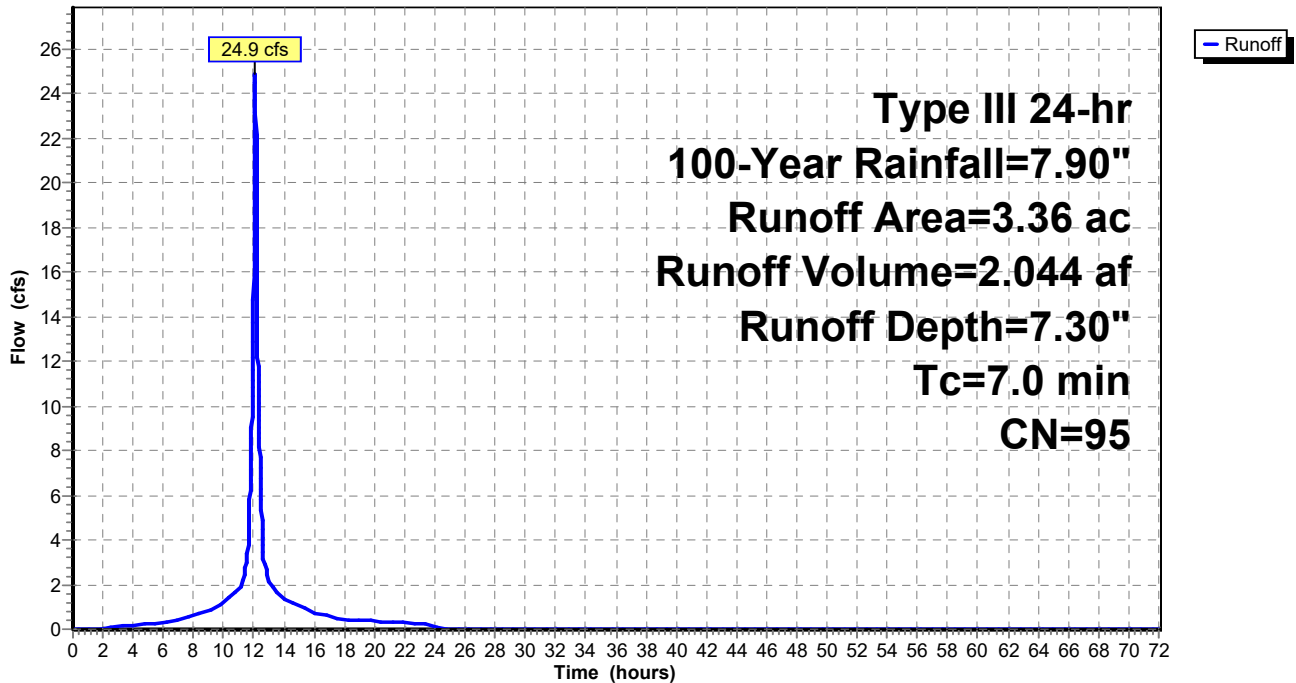
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
0.91	98	Paved parking, HSG B
2.45	94	Fallow, bare soil, HSG D
3.36	95	Weighted Average
2.45		72.92% Pervious Area
0.91		27.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E02: E02 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment E02: E02 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.30	0.0
1.00	0.08	0.00	0.0	52.00	7.90	7.30	0.0
2.00	0.16	0.00	0.0	53.00	7.90	7.30	0.0
3.00	0.24	0.03	0.1	54.00	7.90	7.30	0.0
4.00	0.34	0.07	0.2	55.00	7.90	7.30	0.0
5.00	0.45	0.14	0.2	56.00	7.90	7.30	0.0
6.00	0.57	0.22	0.3	57.00	7.90	7.30	0.0
7.00	0.71	0.33	0.4	58.00	7.90	7.30	0.0
8.00	0.90	0.48	0.6	59.00	7.90	7.30	0.0
9.00	1.15	0.70	0.9	60.00	7.90	7.30	0.0
10.00	1.49	1.01	1.2	61.00	7.90	7.30	0.0
11.00	1.97	1.46	1.8	62.00	7.90	7.30	0.0
12.00	3.95	3.38	14.7	63.00	7.90	7.30	0.0
13.00	5.92	5.34	2.2	64.00	7.90	7.30	0.0
14.00	6.41	5.82	1.4	65.00	7.90	7.30	0.0
15.00	6.75	6.16	1.0	66.00	7.90	7.30	0.0
16.00	7.00	6.41	0.7	67.00	7.90	7.30	0.0
17.00	7.19	6.59	0.6	68.00	7.90	7.30	0.0
18.00	7.33	6.74	0.4	69.00	7.90	7.30	0.0
19.00	7.45	6.86	0.4	70.00	7.90	7.30	0.0
20.00	7.56	6.96	0.4	71.00	7.90	7.30	0.0
21.00	7.66	7.06	0.3	72.00	7.90	7.30	0.0
22.00	7.75	7.15	0.3				
23.00	7.83	7.23	0.3				
24.00	7.90	7.30	0.2				
25.00	7.90	7.30	0.0				
26.00	7.90	7.30	0.0				
27.00	7.90	7.30	0.0				
28.00	7.90	7.30	0.0				
29.00	7.90	7.30	0.0				
30.00	7.90	7.30	0.0				
31.00	7.90	7.30	0.0				
32.00	7.90	7.30	0.0				
33.00	7.90	7.30	0.0				
34.00	7.90	7.30	0.0				
35.00	7.90	7.30	0.0				
36.00	7.90	7.30	0.0				
37.00	7.90	7.30	0.0				
38.00	7.90	7.30	0.0				
39.00	7.90	7.30	0.0				
40.00	7.90	7.30	0.0				
41.00	7.90	7.30	0.0				
42.00	7.90	7.30	0.0				
43.00	7.90	7.30	0.0				
44.00	7.90	7.30	0.0				
45.00	7.90	7.30	0.0				
46.00	7.90	7.30	0.0				
47.00	7.90	7.30	0.0				
48.00	7.90	7.30	0.0				
49.00	7.90	7.30	0.0				
50.00	7.90	7.30	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E03: E03 (Ground Infiltration)

Runoff = 16.4 cfs @ 12.10 hrs, Volume= 1.382 af, Depth= 7.54"

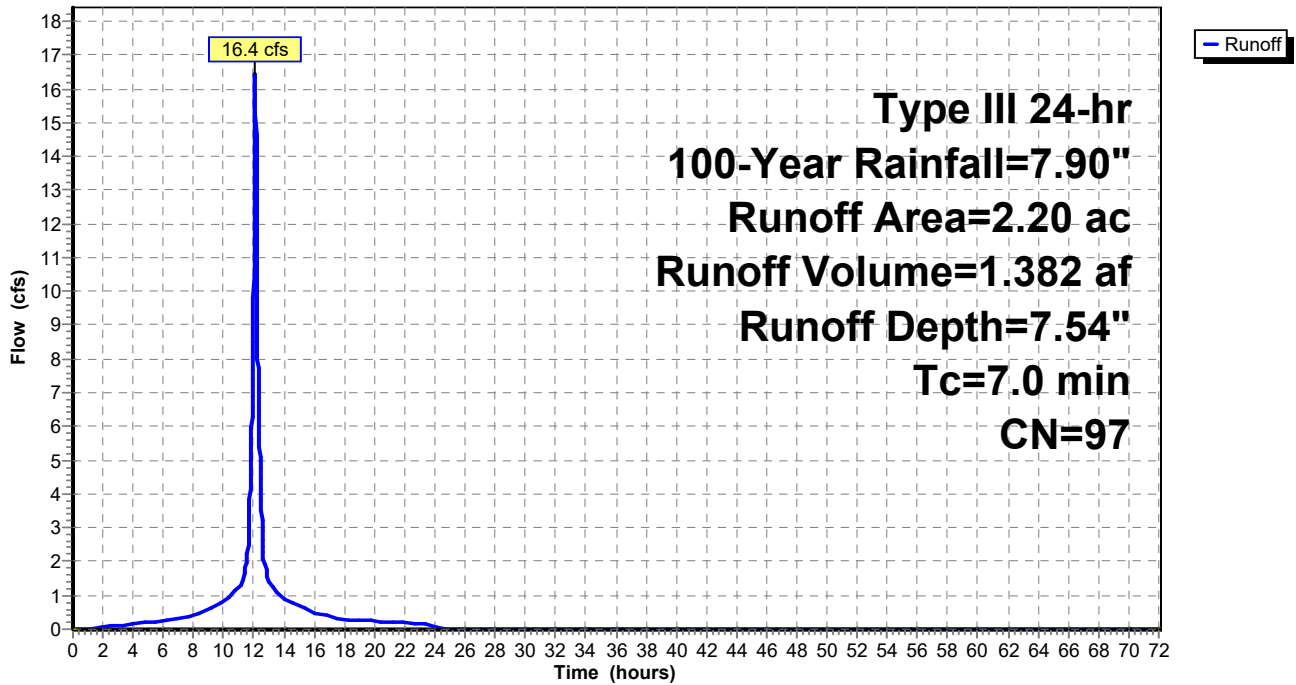
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
1.62	98	Paved parking, HSG B
0.58	94	Fallow, bare soil, HSG D
2.20	97	Weighted Average
0.58		26.36% Pervious Area
1.62		73.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E03: E03 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E03: E03 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.54	0.0
1.00	0.08	0.00	0.0	52.00	7.90	7.54	0.0
2.00	0.16	0.02	0.1	53.00	7.90	7.54	0.0
3.00	0.24	0.07	0.1	54.00	7.90	7.54	0.0
4.00	0.34	0.13	0.2	55.00	7.90	7.54	0.0
5.00	0.45	0.21	0.2	56.00	7.90	7.54	0.0
6.00	0.57	0.31	0.2	57.00	7.90	7.54	0.0
7.00	0.71	0.44	0.3	58.00	7.90	7.54	0.0
8.00	0.90	0.61	0.4	59.00	7.90	7.54	0.0
9.00	1.15	0.85	0.6	60.00	7.90	7.54	0.0
10.00	1.49	1.18	0.8	61.00	7.90	7.54	0.0
11.00	1.97	1.65	1.2	62.00	7.90	7.54	0.0
12.00	3.95	3.60	9.8	63.00	7.90	7.54	0.0
13.00	5.92	5.57	1.5	64.00	7.90	7.54	0.0
14.00	6.41	6.05	0.9	65.00	7.90	7.54	0.0
15.00	6.75	6.39	0.7	66.00	7.90	7.54	0.0
16.00	7.00	6.64	0.5	67.00	7.90	7.54	0.0
17.00	7.19	6.83	0.4	68.00	7.90	7.54	0.0
18.00	7.33	6.97	0.3	69.00	7.90	7.54	0.0
19.00	7.45	7.09	0.3	70.00	7.90	7.54	0.0
20.00	7.56	7.20	0.2	71.00	7.90	7.54	0.0
21.00	7.66	7.30	0.2	72.00	7.90	7.54	0.0
22.00	7.75	7.39	0.2				
23.00	7.83	7.47	0.2				
24.00	7.90	7.54	0.2				
25.00	7.90	7.54	0.0				
26.00	7.90	7.54	0.0				
27.00	7.90	7.54	0.0				
28.00	7.90	7.54	0.0				
29.00	7.90	7.54	0.0				
30.00	7.90	7.54	0.0				
31.00	7.90	7.54	0.0				
32.00	7.90	7.54	0.0				
33.00	7.90	7.54	0.0				
34.00	7.90	7.54	0.0				
35.00	7.90	7.54	0.0				
36.00	7.90	7.54	0.0				
37.00	7.90	7.54	0.0				
38.00	7.90	7.54	0.0				
39.00	7.90	7.54	0.0				
40.00	7.90	7.54	0.0				
41.00	7.90	7.54	0.0				
42.00	7.90	7.54	0.0				
43.00	7.90	7.54	0.0				
44.00	7.90	7.54	0.0				
45.00	7.90	7.54	0.0				
46.00	7.90	7.54	0.0				
47.00	7.90	7.54	0.0				
48.00	7.90	7.54	0.0				
49.00	7.90	7.54	0.0				
50.00	7.90	7.54	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E04: E04 (Ground Infiltration)

Runoff = 9.6 cfs @ 12.10 hrs, Volume= 0.785 af, Depth= 7.30"

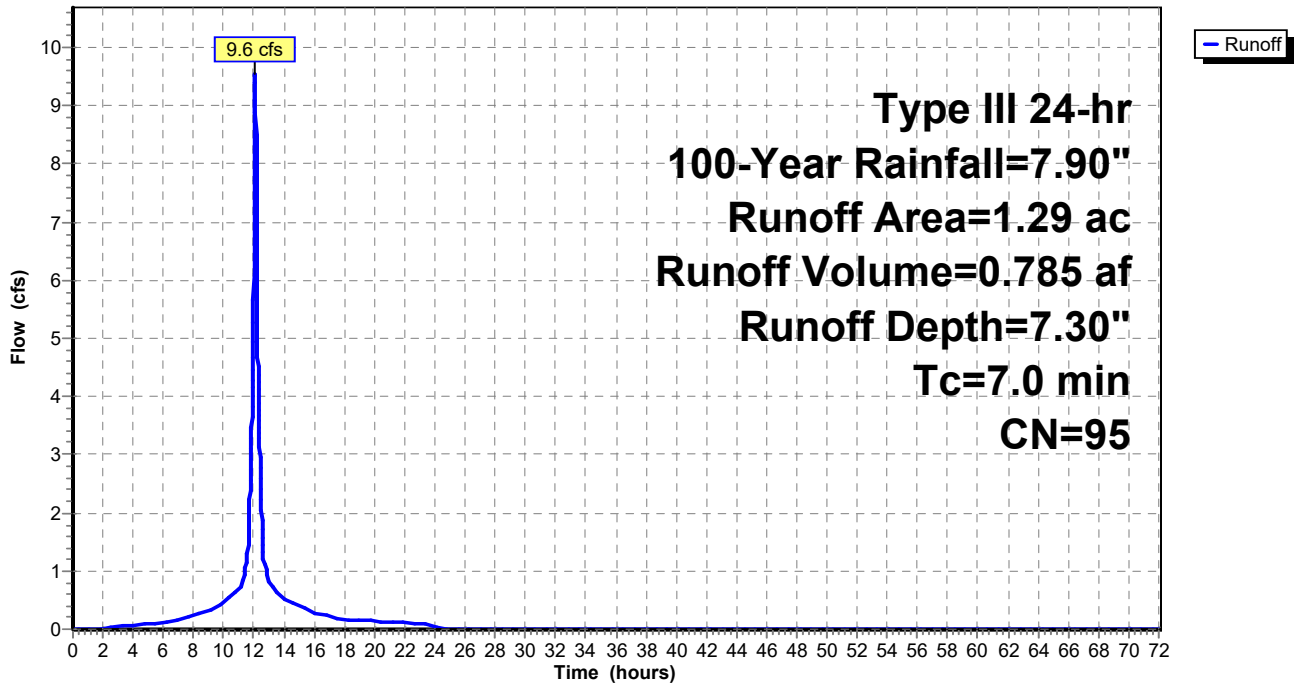
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
0.28	98	Paved parking, HSG B
1.01	94	Fallow, bare soil, HSG D
1.29	95	Weighted Average
1.01		78.29% Pervious Area
0.28		21.71% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E04: E04 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment E04: E04 (Ground Infiltration)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.30	0.0
1.00	0.08	0.00	0.0	52.00	7.90	7.30	0.0
2.00	0.16	0.00	0.0	53.00	7.90	7.30	0.0
3.00	0.24	0.03	0.0	54.00	7.90	7.30	0.0
4.00	0.34	0.07	0.1	55.00	7.90	7.30	0.0
5.00	0.45	0.14	0.1	56.00	7.90	7.30	0.0
6.00	0.57	0.22	0.1	57.00	7.90	7.30	0.0
7.00	0.71	0.33	0.2	58.00	7.90	7.30	0.0
8.00	0.90	0.48	0.2	59.00	7.90	7.30	0.0
9.00	1.15	0.70	0.3	60.00	7.90	7.30	0.0
10.00	1.49	1.01	0.5	61.00	7.90	7.30	0.0
11.00	1.97	1.46	0.7	62.00	7.90	7.30	0.0
12.00	3.95	3.38	5.7	63.00	7.90	7.30	0.0
13.00	5.92	5.34	0.8	64.00	7.90	7.30	0.0
14.00	6.41	5.82	0.5	65.00	7.90	7.30	0.0
15.00	6.75	6.16	0.4	66.00	7.90	7.30	0.0
16.00	7.00	6.41	0.3	67.00	7.90	7.30	0.0
17.00	7.19	6.59	0.2	68.00	7.90	7.30	0.0
18.00	7.33	6.74	0.2	69.00	7.90	7.30	0.0
19.00	7.45	6.86	0.2	70.00	7.90	7.30	0.0
20.00	7.56	6.96	0.1	71.00	7.90	7.30	0.0
21.00	7.66	7.06	0.1	72.00	7.90	7.30	0.0
22.00	7.75	7.15	0.1				
23.00	7.83	7.23	0.1				
24.00	7.90	7.30	0.1				
25.00	7.90	7.30	0.0				
26.00	7.90	7.30	0.0				
27.00	7.90	7.30	0.0				
28.00	7.90	7.30	0.0				
29.00	7.90	7.30	0.0				
30.00	7.90	7.30	0.0				
31.00	7.90	7.30	0.0				
32.00	7.90	7.30	0.0				
33.00	7.90	7.30	0.0				
34.00	7.90	7.30	0.0				
35.00	7.90	7.30	0.0				
36.00	7.90	7.30	0.0				
37.00	7.90	7.30	0.0				
38.00	7.90	7.30	0.0				
39.00	7.90	7.30	0.0				
40.00	7.90	7.30	0.0				
41.00	7.90	7.30	0.0				
42.00	7.90	7.30	0.0				
43.00	7.90	7.30	0.0				
44.00	7.90	7.30	0.0				
45.00	7.90	7.30	0.0				
46.00	7.90	7.30	0.0				
47.00	7.90	7.30	0.0				
48.00	7.90	7.30	0.0				
49.00	7.90	7.30	0.0				
50.00	7.90	7.30	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E05: E05 (Offsite Draining)

Runoff = 10.6 cfs @ 12.07 hrs, Volume= 0.843 af, Depth= 7.66"

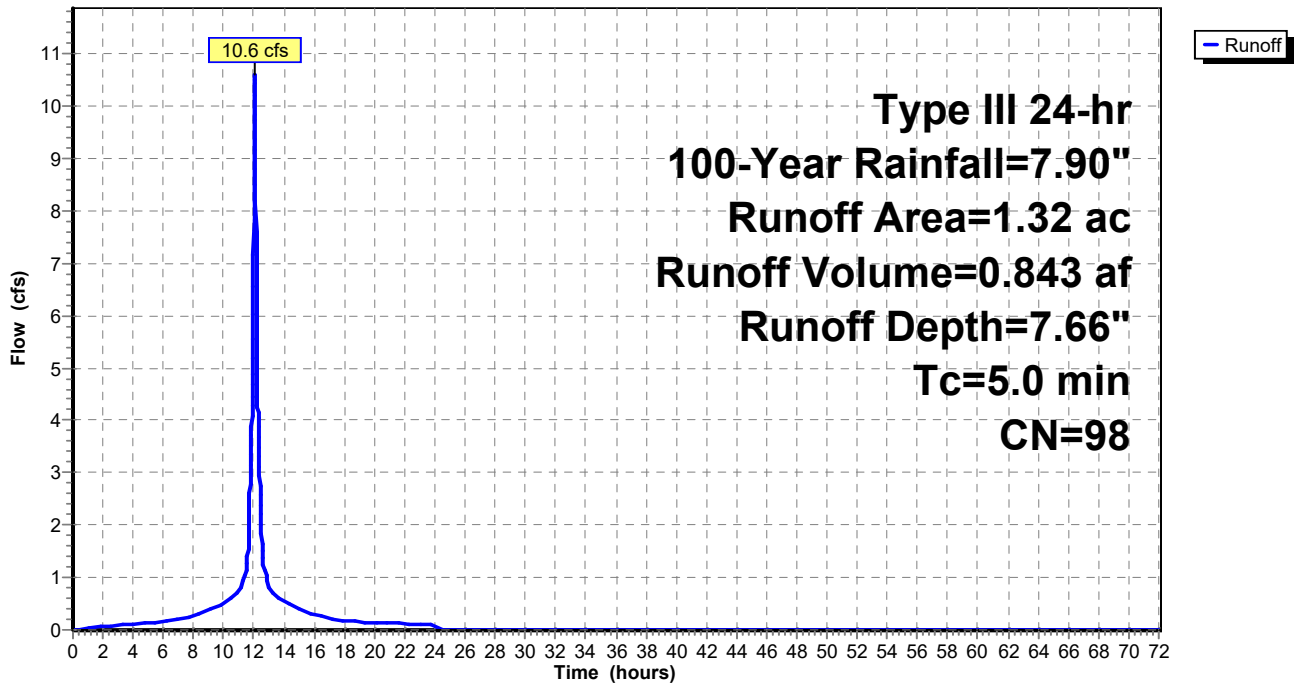
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
1.32	98	Paved parking, HSG B
1.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E05: E05 (Offsite Draining)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E05: E05 (Offsite Draining)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.0	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.1	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.1	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.1	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.1	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.2	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.2	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.3	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.4	60.00	7.90	7.66	0.0
10.00	1.49	1.27	0.5	61.00	7.90	7.66	0.0
11.00	1.97	1.75	0.7	62.00	7.90	7.66	0.0
12.00	3.95	3.72	7.2	63.00	7.90	7.66	0.0
13.00	5.92	5.69	0.8	64.00	7.90	7.66	0.0
14.00	6.41	6.17	0.5	65.00	7.90	7.66	0.0
15.00	6.75	6.51	0.4	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.3	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.2	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.2	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.2	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.1	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.1	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.1				
23.00	7.83	7.59	0.1				
24.00	7.90	7.66	0.1				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E06: E06 (Reserved Channel)

Runoff = 95.3 cfs @ 12.10 hrs, Volume= 8.113 af, Depth= 7.66"

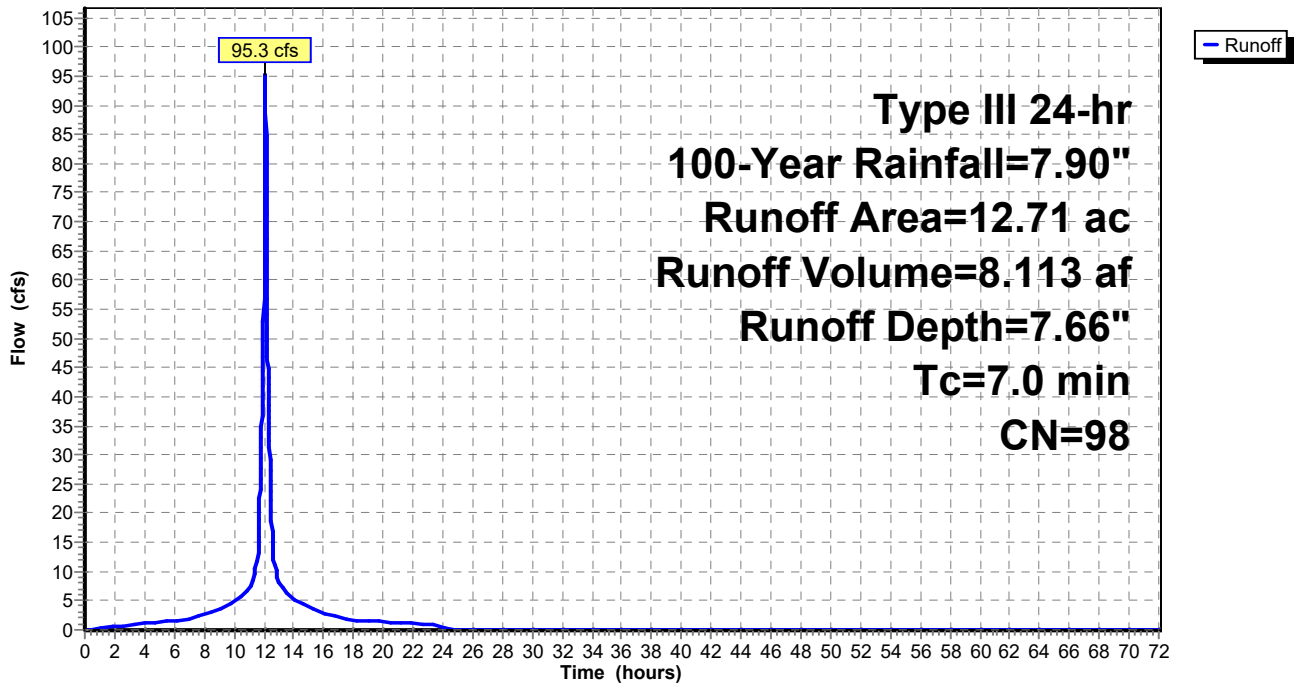
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
12.71	98	Paved parking, HSG B
12.71		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E06: E06 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment E06: E06 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.6	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.8	54.00	7.90	7.66	0.0
4.00	0.34	0.18	1.1	55.00	7.90	7.66	0.0
5.00	0.45	0.27	1.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.5	57.00	7.90	7.66	0.0
7.00	0.71	0.52	2.0	58.00	7.90	7.66	0.0
8.00	0.90	0.69	2.5	59.00	7.90	7.66	0.0
9.00	1.15	0.94	3.6	60.00	7.90	7.66	0.0
10.00	1.49	1.27	4.8	61.00	7.90	7.66	0.0
11.00	1.97	1.75	7.1	62.00	7.90	7.66	0.0
12.00	3.95	3.72	56.7	63.00	7.90	7.66	0.0
13.00	5.92	5.69	8.4	64.00	7.90	7.66	0.0
14.00	6.41	6.17	5.2	65.00	7.90	7.66	0.0
15.00	6.75	6.51	3.9	66.00	7.90	7.66	0.0
16.00	7.00	6.76	2.8	67.00	7.90	7.66	0.0
17.00	7.19	6.95	2.2	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.7	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.5	70.00	7.90	7.66	0.0
20.00	7.56	7.32	1.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	1.2	72.00	7.90	7.66	0.0
22.00	7.75	7.51	1.1				
23.00	7.83	7.59	1.0				
24.00	7.90	7.66	0.9				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E07: E07 (Reserved Channel)

Runoff = 65.6 cfs @ 12.10 hrs, Volume= 5.586 af, Depth= 7.66"

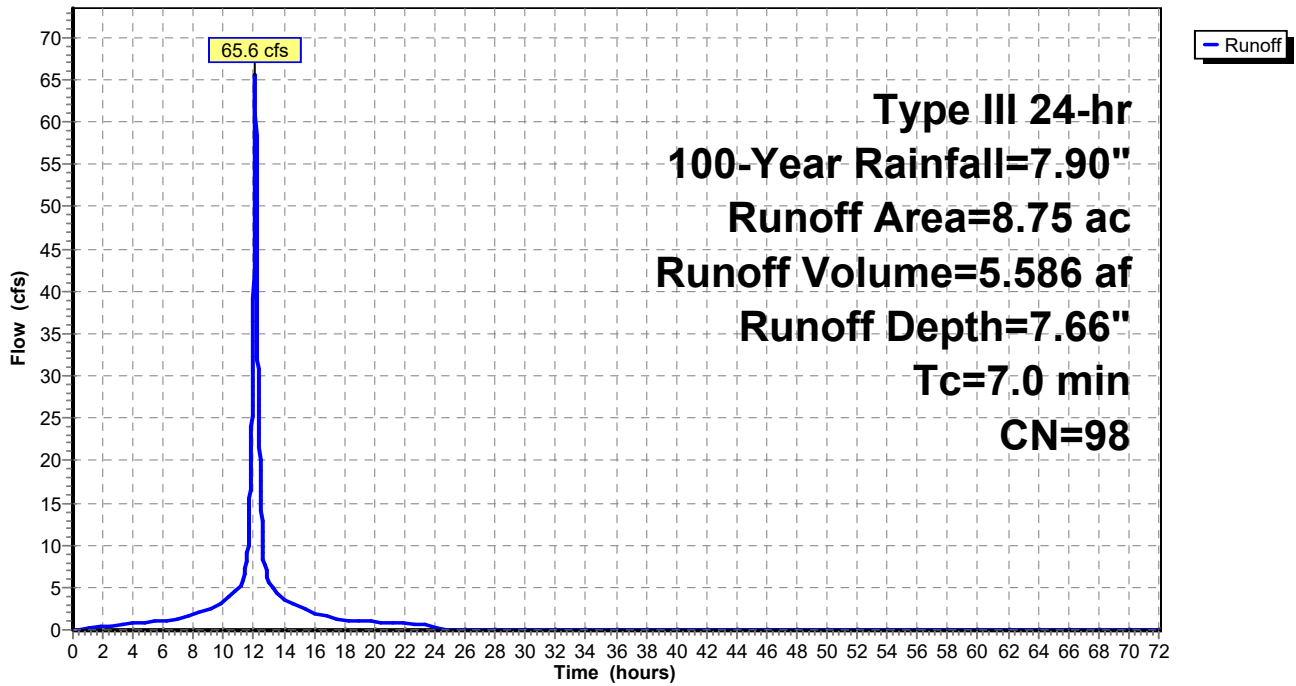
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
8.75	98	Paved parking, HSG B
8.75		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E07: E07 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E07: E07 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.4	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.6	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.7	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.9	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.0	57.00	7.90	7.66	0.0
7.00	0.71	0.52	1.3	58.00	7.90	7.66	0.0
8.00	0.90	0.69	1.7	59.00	7.90	7.66	0.0
9.00	1.15	0.94	2.5	60.00	7.90	7.66	0.0
10.00	1.49	1.27	3.3	61.00	7.90	7.66	0.0
11.00	1.97	1.75	4.9	62.00	7.90	7.66	0.0
12.00	3.95	3.72	39.1	63.00	7.90	7.66	0.0
13.00	5.92	5.69	5.8	64.00	7.90	7.66	0.0
14.00	6.41	6.17	3.6	65.00	7.90	7.66	0.0
15.00	6.75	6.51	2.7	66.00	7.90	7.66	0.0
16.00	7.00	6.76	1.9	67.00	7.90	7.66	0.0
17.00	7.19	6.95	1.5	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.2	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.0	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.9	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.8	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.8				
23.00	7.83	7.59	0.7				
24.00	7.90	7.66	0.6				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E08: E08 (Reserved Channel)

Runoff = 54.0 cfs @ 12.10 hrs, Volume= 4.596 af, Depth= 7.66"

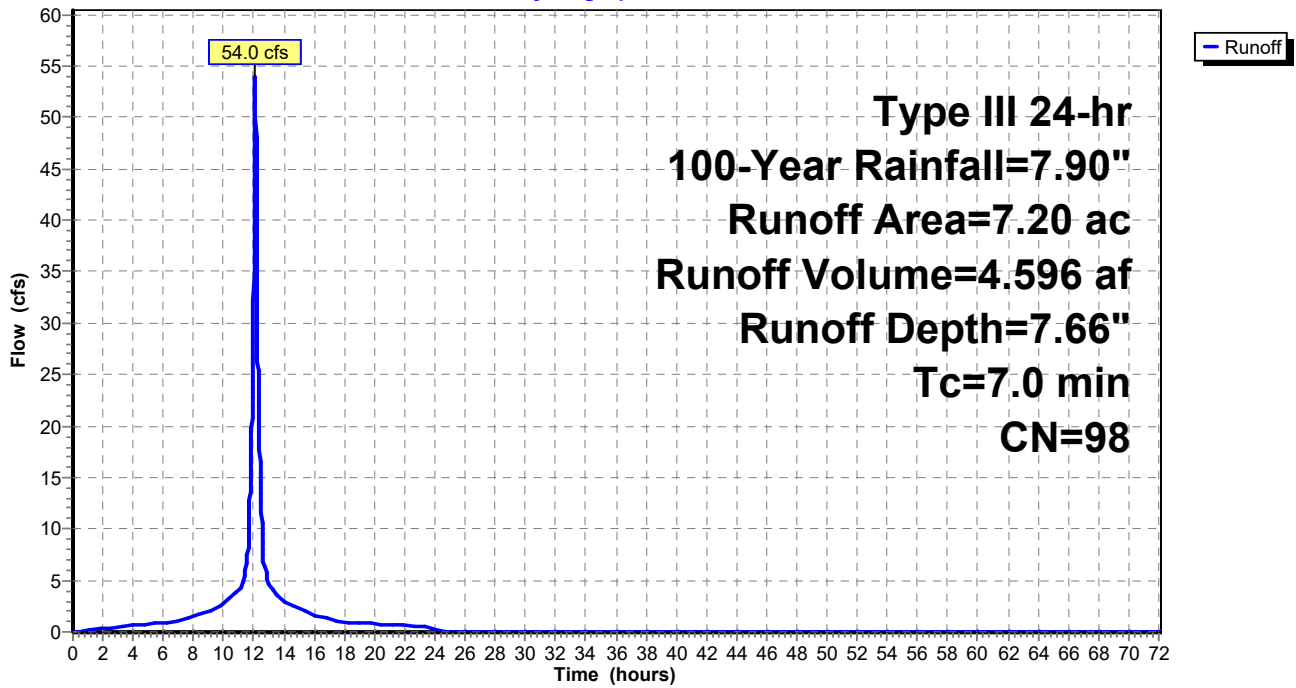
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
7.20	98	Paved parking, HSG B
7.20		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E08: E08 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment E08: E08 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.1	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.3	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.5	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.6	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.7	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.8	57.00	7.90	7.66	0.0
7.00	0.71	0.52	1.1	58.00	7.90	7.66	0.0
8.00	0.90	0.69	1.4	59.00	7.90	7.66	0.0
9.00	1.15	0.94	2.0	60.00	7.90	7.66	0.0
10.00	1.49	1.27	2.7	61.00	7.90	7.66	0.0
11.00	1.97	1.75	4.0	62.00	7.90	7.66	0.0
12.00	3.95	3.72	32.1	63.00	7.90	7.66	0.0
13.00	5.92	5.69	4.8	64.00	7.90	7.66	0.0
14.00	6.41	6.17	3.0	65.00	7.90	7.66	0.0
15.00	6.75	6.51	2.2	66.00	7.90	7.66	0.0
16.00	7.00	6.76	1.6	67.00	7.90	7.66	0.0
17.00	7.19	6.95	1.2	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.9	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.8	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.8	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.7	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.6				
23.00	7.83	7.59	0.6				
24.00	7.90	7.66	0.5				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E09: E09 (Reserved Channel)

Runoff = 167.2 cfs @ 12.10 hrs, Volume= 14.235 af, Depth= 7.66"

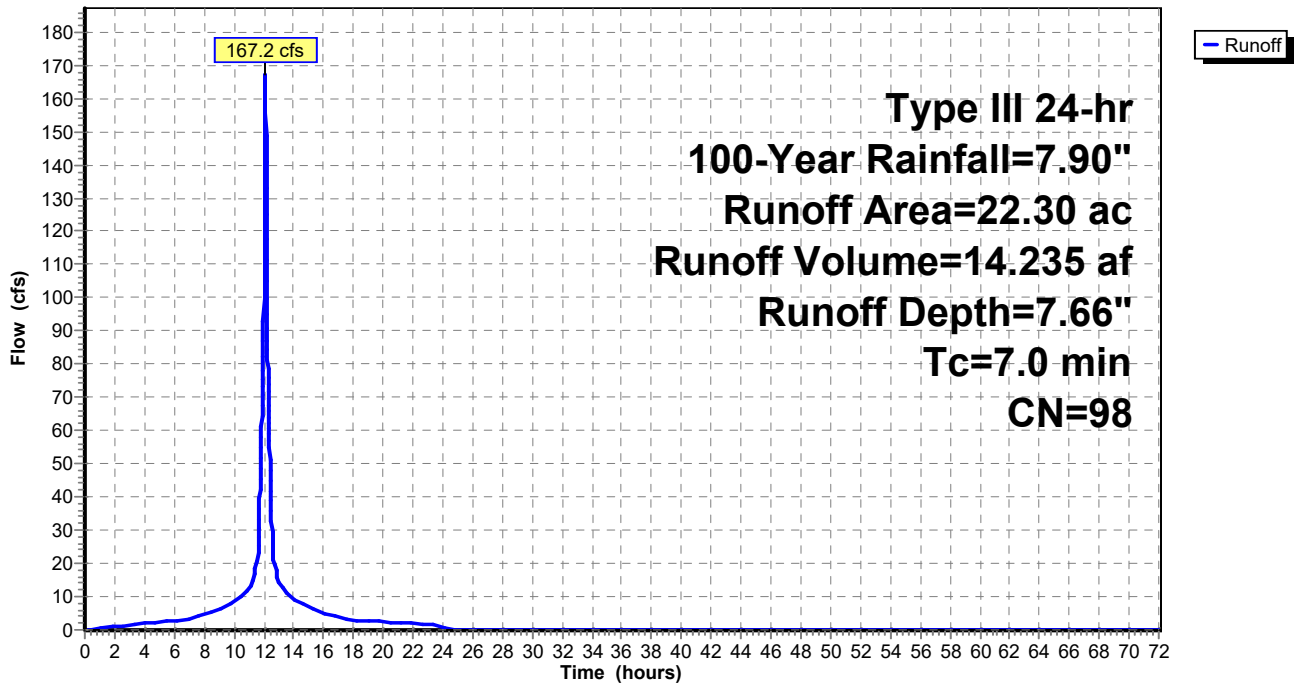
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
22.30	98	Paved parking, HSG B
22.30		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E09: E09 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E09: E09 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.4	52.00	7.90	7.66	0.0
2.00	0.16	0.04	1.0	53.00	7.90	7.66	0.0
3.00	0.24	0.10	1.5	54.00	7.90	7.66	0.0
4.00	0.34	0.18	1.9	55.00	7.90	7.66	0.0
5.00	0.45	0.27	2.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	2.6	57.00	7.90	7.66	0.0
7.00	0.71	0.52	3.4	58.00	7.90	7.66	0.0
8.00	0.90	0.69	4.3	59.00	7.90	7.66	0.0
9.00	1.15	0.94	6.3	60.00	7.90	7.66	0.0
10.00	1.49	1.27	8.3	61.00	7.90	7.66	0.0
11.00	1.97	1.75	12.4	62.00	7.90	7.66	0.0
12.00	3.95	3.72	99.5	63.00	7.90	7.66	0.0
13.00	5.92	5.69	14.7	64.00	7.90	7.66	0.0
14.00	6.41	6.17	9.2	65.00	7.90	7.66	0.0
15.00	6.75	6.51	6.9	66.00	7.90	7.66	0.0
16.00	7.00	6.76	4.8	67.00	7.90	7.66	0.0
17.00	7.19	6.95	3.8	68.00	7.90	7.66	0.0
18.00	7.33	7.09	2.9	69.00	7.90	7.66	0.0
19.00	7.45	7.21	2.6	70.00	7.90	7.66	0.0
20.00	7.56	7.32	2.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	2.1	72.00	7.90	7.66	0.0
22.00	7.75	7.51	1.9				
23.00	7.83	7.59	1.7				
24.00	7.90	7.66	1.5				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E10: E10 (Reserved Channel)

Runoff = 99.3 cfs @ 12.10 hrs, Volume= 8.458 af, Depth= 7.66"

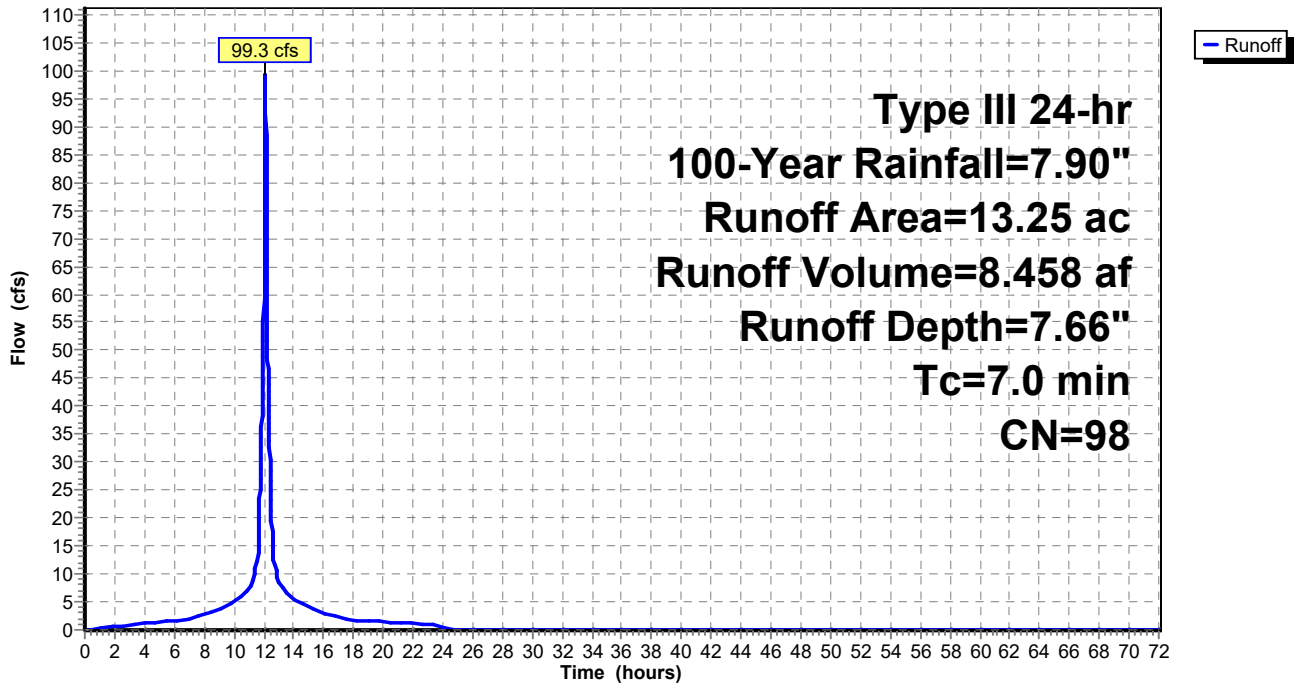
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
13.25	98	Paved parking, HSG B
13.25		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E10: E10 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment E10: E10 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.6	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.9	54.00	7.90	7.66	0.0
4.00	0.34	0.18	1.1	55.00	7.90	7.66	0.0
5.00	0.45	0.27	1.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.5	57.00	7.90	7.66	0.0
7.00	0.71	0.52	2.0	58.00	7.90	7.66	0.0
8.00	0.90	0.69	2.6	59.00	7.90	7.66	0.0
9.00	1.15	0.94	3.7	60.00	7.90	7.66	0.0
10.00	1.49	1.27	5.0	61.00	7.90	7.66	0.0
11.00	1.97	1.75	7.4	62.00	7.90	7.66	0.0
12.00	3.95	3.72	59.1	63.00	7.90	7.66	0.0
13.00	5.92	5.69	8.7	64.00	7.90	7.66	0.0
14.00	6.41	6.17	5.4	65.00	7.90	7.66	0.0
15.00	6.75	6.51	4.1	66.00	7.90	7.66	0.0
16.00	7.00	6.76	2.9	67.00	7.90	7.66	0.0
17.00	7.19	6.95	2.3	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.7	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.5	70.00	7.90	7.66	0.0
20.00	7.56	7.32	1.4	71.00	7.90	7.66	0.0
21.00	7.66	7.42	1.3	72.00	7.90	7.66	0.0
22.00	7.75	7.51	1.1				
23.00	7.83	7.59	1.0				
24.00	7.90	7.66	0.9				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E11: E11 (Reserved Channel)

Runoff = 24.8 cfs @ 12.07 hrs, Volume= 1.973 af, Depth= 7.66"

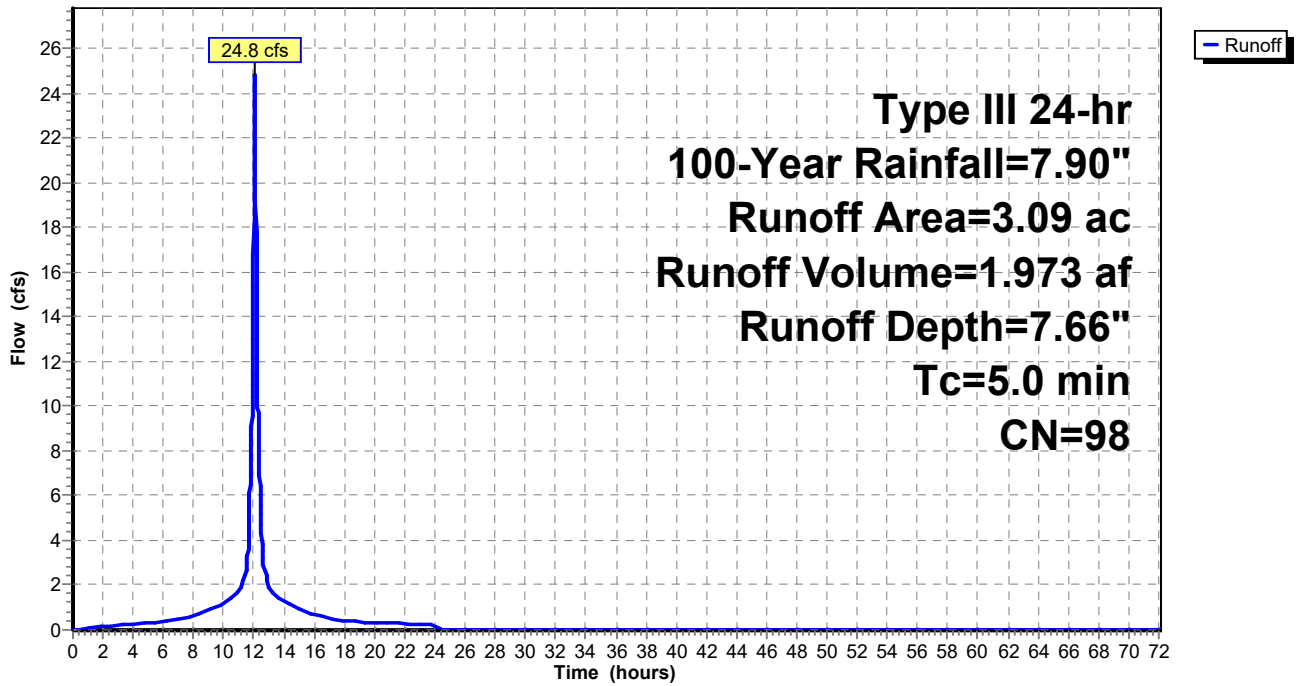
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
3.09	98	Paved parking, HSG B
3.09		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment E11: E11 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

Printed 2/25/2021

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Hydrograph for Subcatchment E11: E11 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.1	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.1	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.2	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.3	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.4	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.5	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.6	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.9	60.00	7.90	7.66	0.0
10.00	1.49	1.27	1.2	61.00	7.90	7.66	0.0
11.00	1.97	1.75	1.7	62.00	7.90	7.66	0.0
12.00	3.95	3.72	16.8	63.00	7.90	7.66	0.0
13.00	5.92	5.69	2.0	64.00	7.90	7.66	0.0
14.00	6.41	6.17	1.3	65.00	7.90	7.66	0.0
15.00	6.75	6.51	0.9	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.7	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.5	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.4	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.4	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.3	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.3				
23.00	7.83	7.59	0.2				
24.00	7.90	7.66	0.2				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Subcatchment E12: E12 (Reserved Channel)

Runoff = 80.0 cfs @ 12.10 hrs, Volume= 6.811 af, Depth= 7.66"

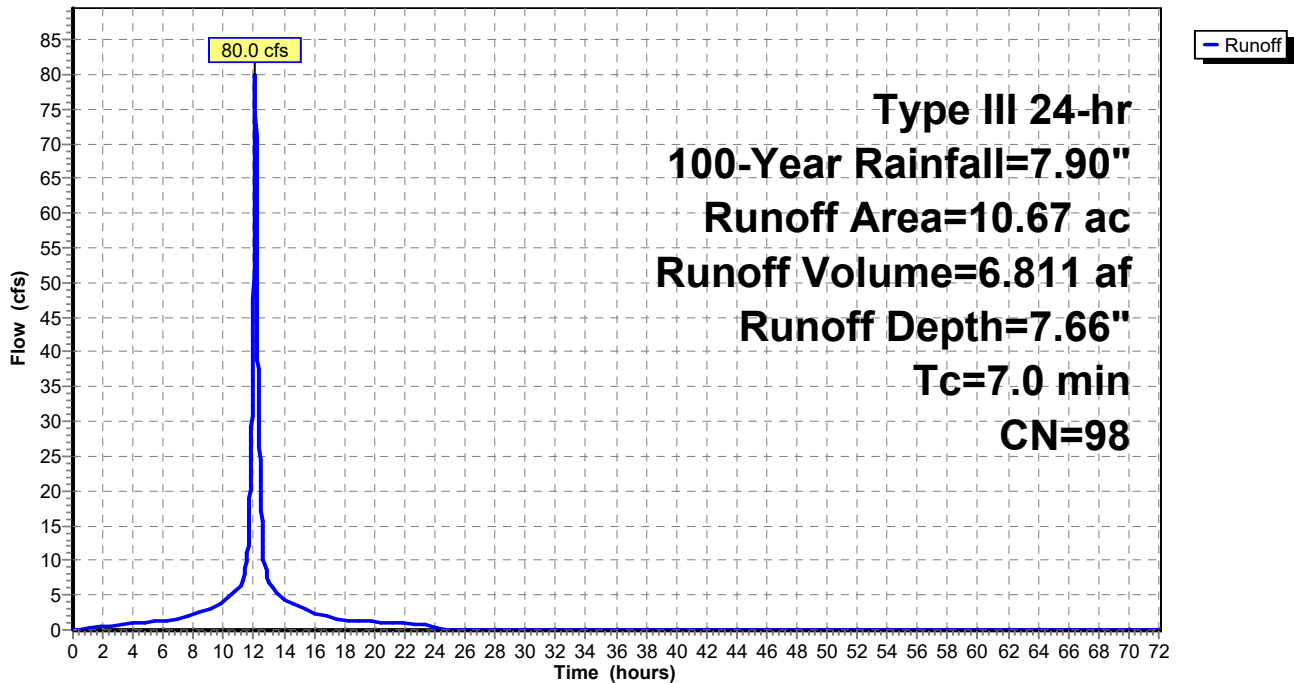
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
10.67	98	Paved parking, HSG B
10.67		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment E12: E12 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Subcatchment E12: E12 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.5	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.7	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.9	55.00	7.90	7.66	0.0
5.00	0.45	0.27	1.1	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.2	57.00	7.90	7.66	0.0
7.00	0.71	0.52	1.6	58.00	7.90	7.66	0.0
8.00	0.90	0.69	2.1	59.00	7.90	7.66	0.0
9.00	1.15	0.94	3.0	60.00	7.90	7.66	0.0
10.00	1.49	1.27	4.0	61.00	7.90	7.66	0.0
11.00	1.97	1.75	5.9	62.00	7.90	7.66	0.0
12.00	3.95	3.72	47.6	63.00	7.90	7.66	0.0
13.00	5.92	5.69	7.0	64.00	7.90	7.66	0.0
14.00	6.41	6.17	4.4	65.00	7.90	7.66	0.0
15.00	6.75	6.51	3.3	66.00	7.90	7.66	0.0
16.00	7.00	6.76	2.3	67.00	7.90	7.66	0.0
17.00	7.19	6.95	1.8	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.4	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.2	70.00	7.90	7.66	0.0
20.00	7.56	7.32	1.1	71.00	7.90	7.66	0.0
21.00	7.66	7.42	1.0	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.9				
23.00	7.83	7.59	0.8				
24.00	7.90	7.66	0.7				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 1P: E01 (Reserved Channel)

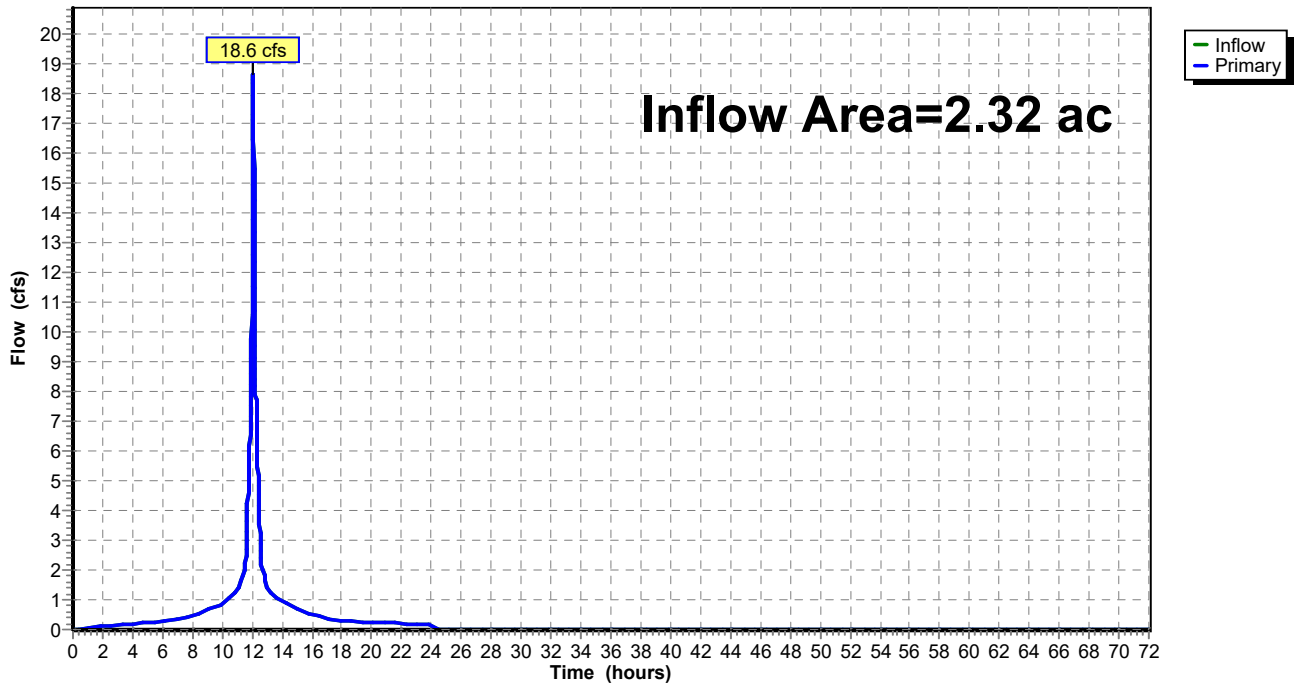
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.32 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 18.6 cfs @ 12.07 hrs, Volume= 1.481 af
Primary = 18.6 cfs @ 12.07 hrs, Volume= 1.481 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 1P: E01 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 1P: E01 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.4		0.4	58.00	0.0		0.0
8.00	0.5		0.5	59.00	0.0		0.0
9.00	0.7		0.7	60.00	0.0		0.0
10.00	0.9		0.9	61.00	0.0		0.0
11.00	1.3		1.3	62.00	0.0		0.0
12.00	12.6		12.6	63.00	0.0		0.0
13.00	1.5		1.5	64.00	0.0		0.0
14.00	0.9		0.9	65.00	0.0		0.0
15.00	0.7		0.7	66.00	0.0		0.0
16.00	0.5		0.5	67.00	0.0		0.0
17.00	0.4		0.4	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.3		0.3	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 2P: E02 (Ground Infiltration)

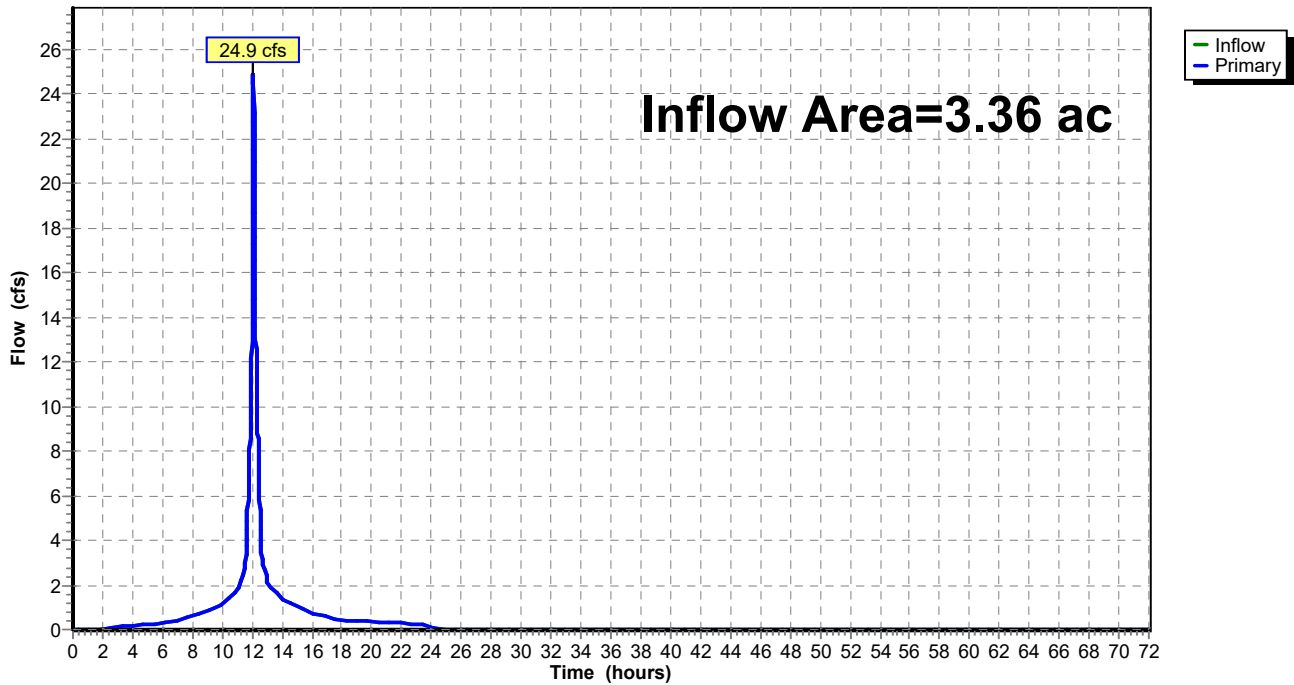
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.36 ac, 27.08% Impervious, Inflow Depth = 7.30" for 100-Year event
Inflow = 24.9 cfs @ 12.10 hrs, Volume= 2.044 af
Primary = 24.9 cfs @ 12.10 hrs, Volume= 2.044 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 2P: E02 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 2P: E02 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.4		0.4	58.00	0.0		0.0
8.00	0.6		0.6	59.00	0.0		0.0
9.00	0.9		0.9	60.00	0.0		0.0
10.00	1.2		1.2	61.00	0.0		0.0
11.00	1.8		1.8	62.00	0.0		0.0
12.00	14.7		14.7	63.00	0.0		0.0
13.00	2.2		2.2	64.00	0.0		0.0
14.00	1.4		1.4	65.00	0.0		0.0
15.00	1.0		1.0	66.00	0.0		0.0
16.00	0.7		0.7	67.00	0.0		0.0
17.00	0.6		0.6	68.00	0.0		0.0
18.00	0.4		0.4	69.00	0.0		0.0
19.00	0.4		0.4	70.00	0.0		0.0
20.00	0.4		0.4	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.3		0.3				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 3P: E03 (Ground Infiltration)

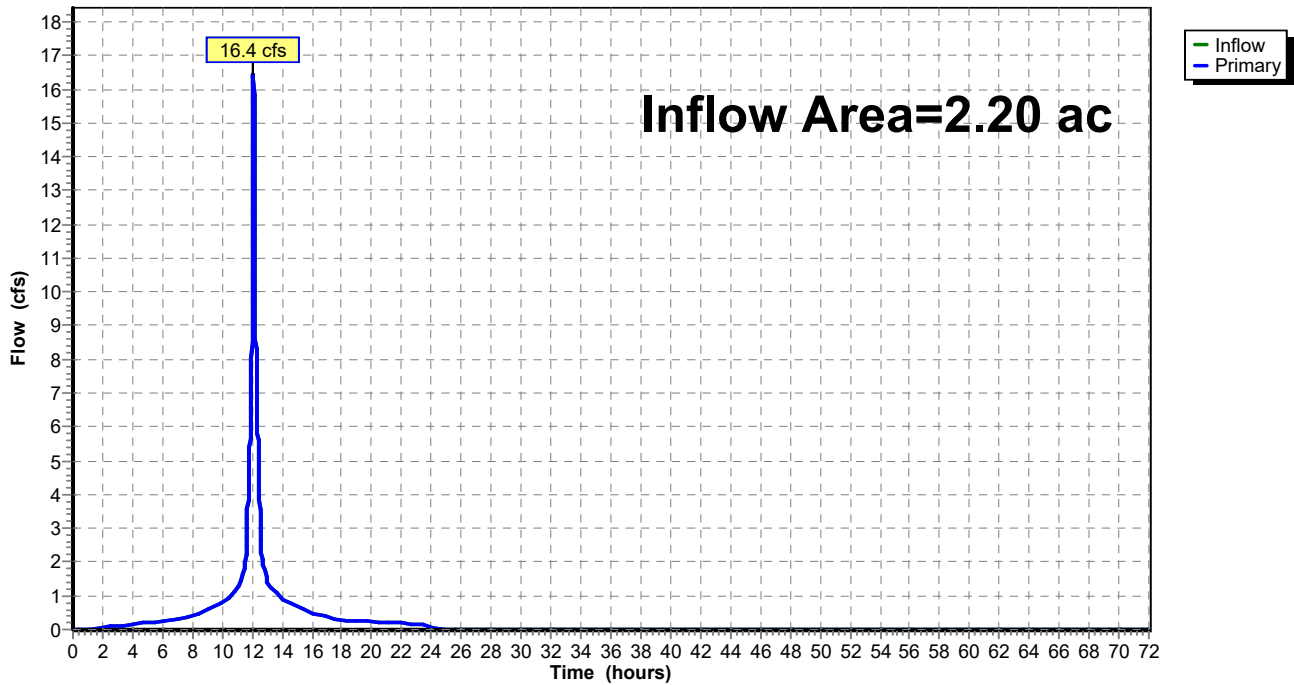
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.20 ac, 73.64% Impervious, Inflow Depth = 7.54" for 100-Year event
Inflow = 16.4 cfs @ 12.10 hrs, Volume= 1.382 af
Primary = 16.4 cfs @ 12.10 hrs, Volume= 1.382 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 3P: E03 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 3P: E03 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.3		0.3	58.00	0.0		0.0
8.00	0.4		0.4	59.00	0.0		0.0
9.00	0.6		0.6	60.00	0.0		0.0
10.00	0.8		0.8	61.00	0.0		0.0
11.00	1.2		1.2	62.00	0.0		0.0
12.00	9.8		9.8	63.00	0.0		0.0
13.00	1.5		1.5	64.00	0.0		0.0
14.00	0.9		0.9	65.00	0.0		0.0
15.00	0.7		0.7	66.00	0.0		0.0
16.00	0.5		0.5	67.00	0.0		0.0
17.00	0.4		0.4	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.3		0.3	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 4P: E04 (Ground Infiltration)

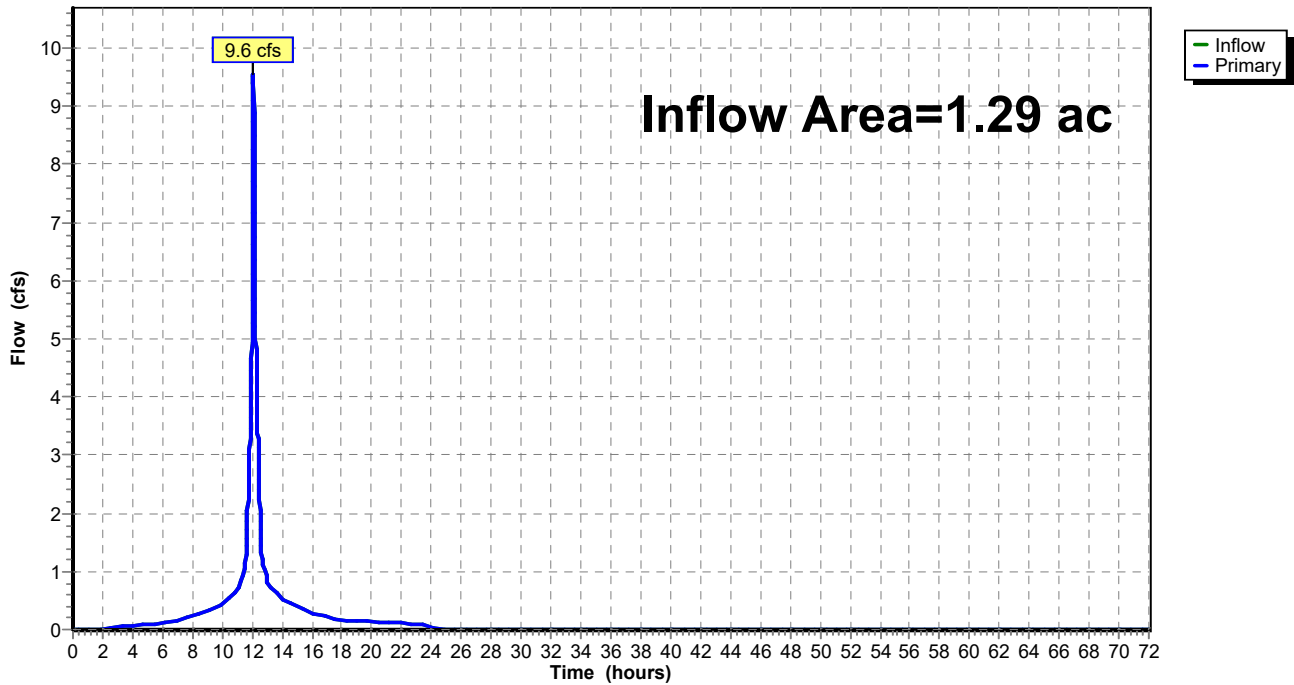
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.29 ac, 21.71% Impervious, Inflow Depth = 7.30" for 100-Year event
Inflow = 9.6 cfs @ 12.10 hrs, Volume= 0.785 af
Primary = 9.6 cfs @ 12.10 hrs, Volume= 0.785 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 4P: E04 (Ground Infiltration)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 4P: E04 (Ground Infiltration)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.3		0.3	60.00	0.0		0.0
10.00	0.5		0.5	61.00	0.0		0.0
11.00	0.7		0.7	62.00	0.0		0.0
12.00	5.7		5.7	63.00	0.0		0.0
13.00	0.8		0.8	64.00	0.0		0.0
14.00	0.5		0.5	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 5P: E05 (Offsite Draining)

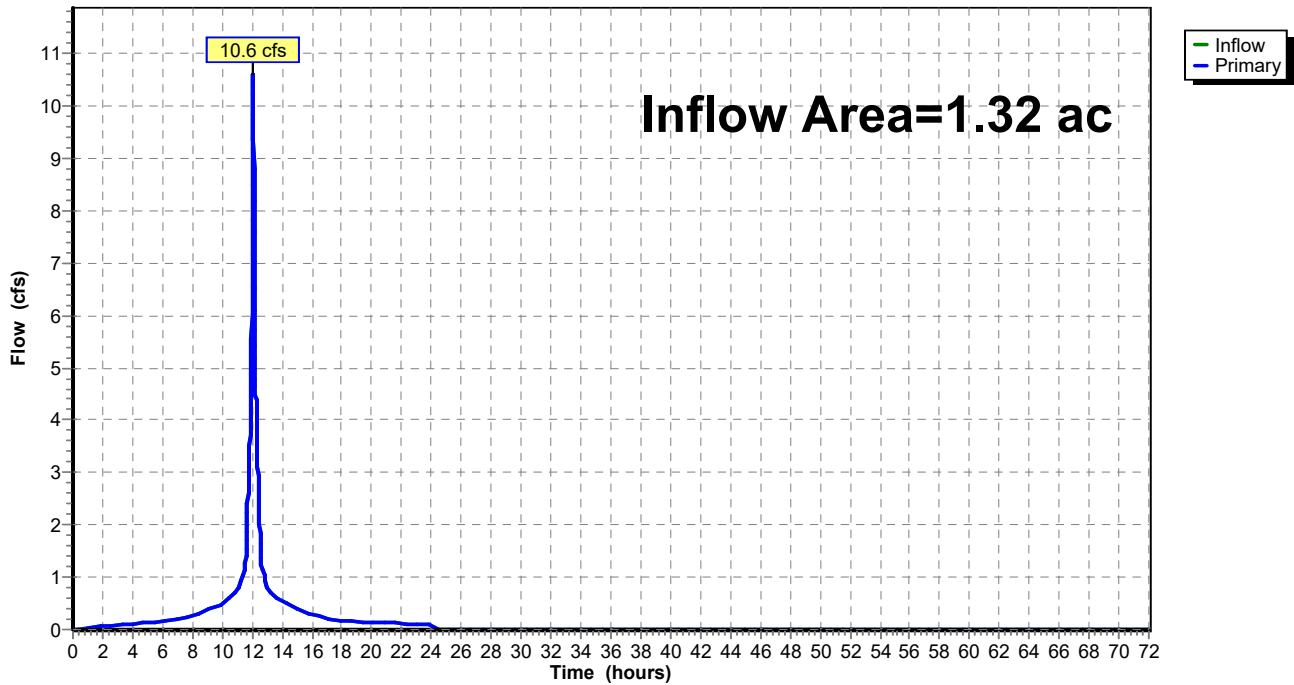
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.32 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 10.6 cfs @ 12.07 hrs, Volume= 0.843 af
Primary = 10.6 cfs @ 12.07 hrs, Volume= 0.843 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 5P: E05 (Offsite Draining)

Hydrograph



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Hydrograph for Pond 5P: E05 (Offsite Draining)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.3		0.3	59.00	0.0		0.0
9.00	0.4		0.4	60.00	0.0		0.0
10.00	0.5		0.5	61.00	0.0		0.0
11.00	0.7		0.7	62.00	0.0		0.0
12.00	7.2		7.2	63.00	0.0		0.0
13.00	0.8		0.8	64.00	0.0		0.0
14.00	0.5		0.5	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 6P: E06 (Reserved Channel)

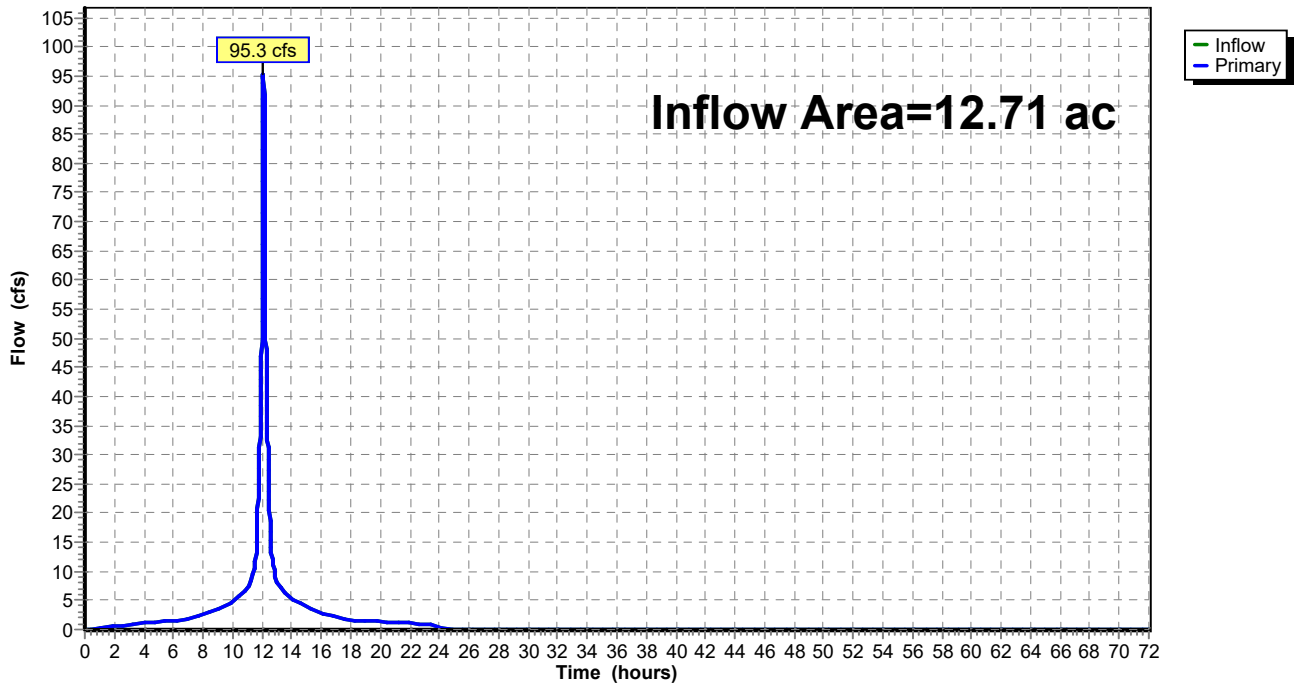
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.71 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 95.3 cfs @ 12.10 hrs, Volume= 8.113 af
Primary = 95.3 cfs @ 12.10 hrs, Volume= 8.113 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 6P: E06 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 6P: E06 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.6		0.6	53.00	0.0		0.0
3.00	0.8		0.8	54.00	0.0		0.0
4.00	1.1		1.1	55.00	0.0		0.0
5.00	1.3		1.3	56.00	0.0		0.0
6.00	1.5		1.5	57.00	0.0		0.0
7.00	2.0		2.0	58.00	0.0		0.0
8.00	2.5		2.5	59.00	0.0		0.0
9.00	3.6		3.6	60.00	0.0		0.0
10.00	4.8		4.8	61.00	0.0		0.0
11.00	7.1		7.1	62.00	0.0		0.0
12.00	56.7		56.7	63.00	0.0		0.0
13.00	8.4		8.4	64.00	0.0		0.0
14.00	5.2		5.2	65.00	0.0		0.0
15.00	3.9		3.9	66.00	0.0		0.0
16.00	2.8		2.8	67.00	0.0		0.0
17.00	2.2		2.2	68.00	0.0		0.0
18.00	1.7		1.7	69.00	0.0		0.0
19.00	1.5		1.5	70.00	0.0		0.0
20.00	1.3		1.3	71.00	0.0		0.0
21.00	1.2		1.2	72.00	0.0		0.0
22.00	1.1		1.1				
23.00	1.0		1.0				
24.00	0.9		0.9				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 7P: E07 (Reserved Channel)

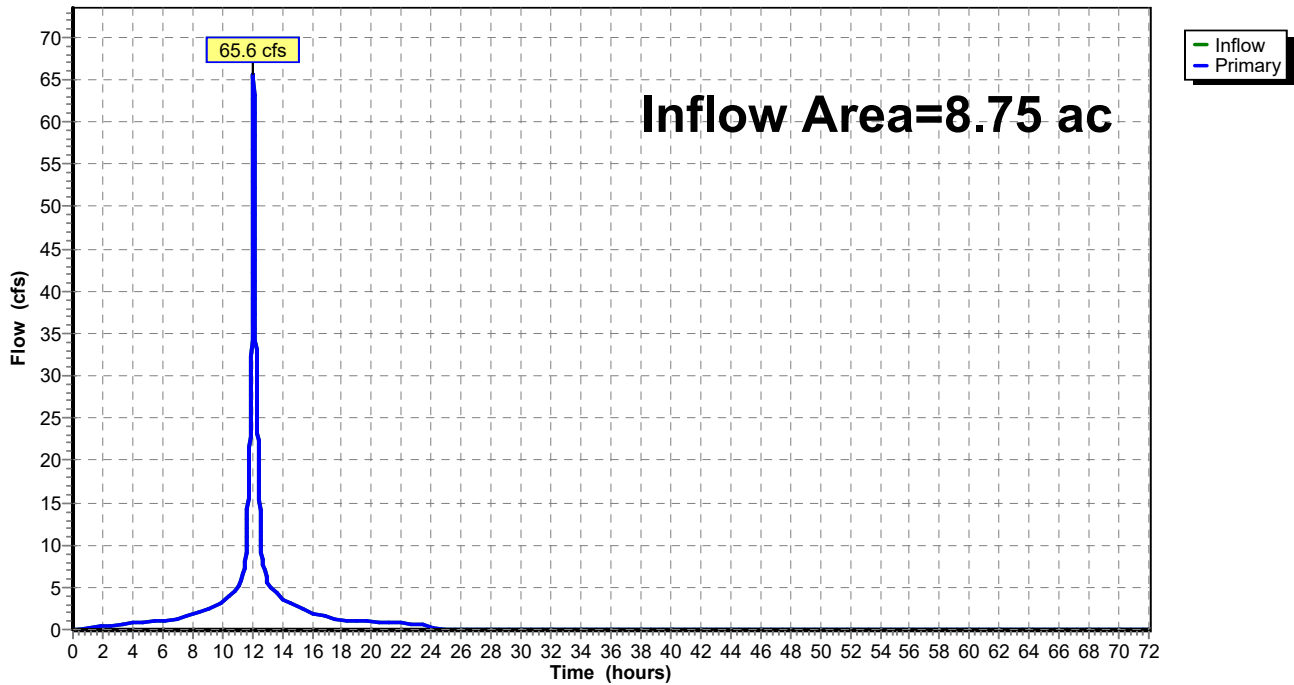
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 8.75 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 65.6 cfs @ 12.10 hrs, Volume= 5.586 af
Primary = 65.6 cfs @ 12.10 hrs, Volume= 5.586 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 7P: E07 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 7P: E07 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.4		0.4	53.00	0.0		0.0
3.00	0.6		0.6	54.00	0.0		0.0
4.00	0.7		0.7	55.00	0.0		0.0
5.00	0.9		0.9	56.00	0.0		0.0
6.00	1.0		1.0	57.00	0.0		0.0
7.00	1.3		1.3	58.00	0.0		0.0
8.00	1.7		1.7	59.00	0.0		0.0
9.00	2.5		2.5	60.00	0.0		0.0
10.00	3.3		3.3	61.00	0.0		0.0
11.00	4.9		4.9	62.00	0.0		0.0
12.00	39.1		39.1	63.00	0.0		0.0
13.00	5.8		5.8	64.00	0.0		0.0
14.00	3.6		3.6	65.00	0.0		0.0
15.00	2.7		2.7	66.00	0.0		0.0
16.00	1.9		1.9	67.00	0.0		0.0
17.00	1.5		1.5	68.00	0.0		0.0
18.00	1.2		1.2	69.00	0.0		0.0
19.00	1.0		1.0	70.00	0.0		0.0
20.00	0.9		0.9	71.00	0.0		0.0
21.00	0.8		0.8	72.00	0.0		0.0
22.00	0.8		0.8				
23.00	0.7		0.7				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 8P: E08 (Reserved Channel)

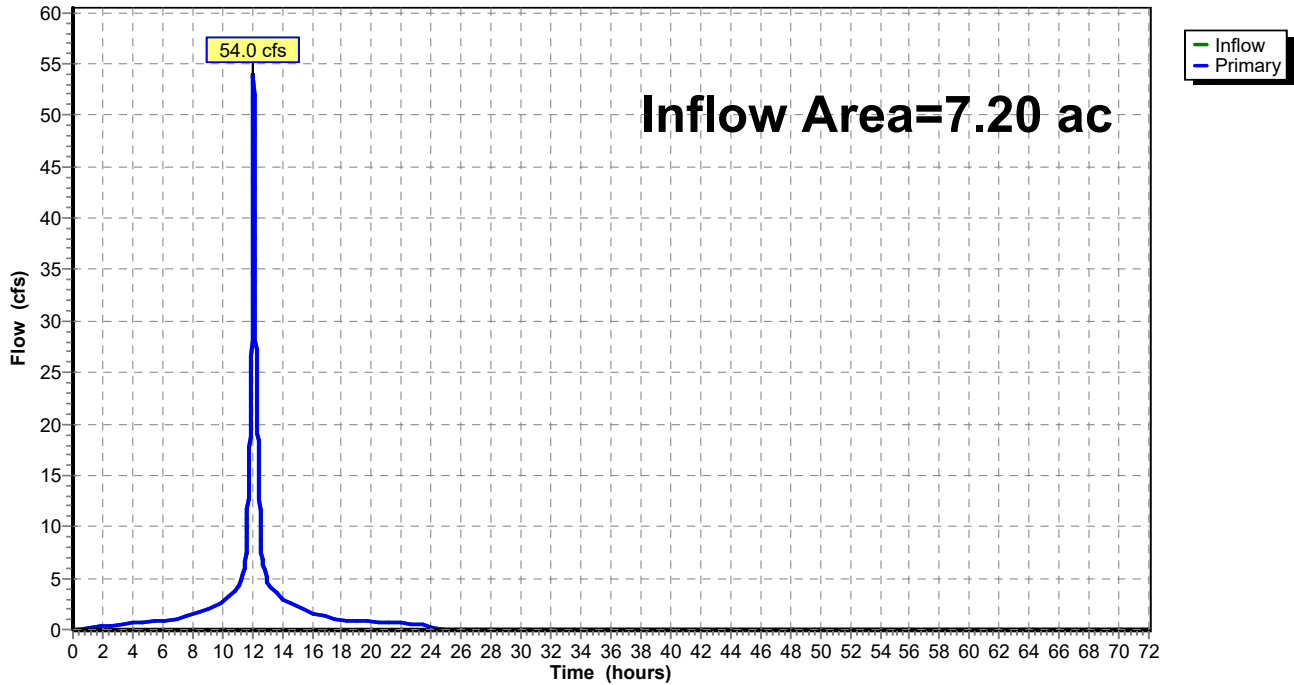
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.20 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 54.0 cfs @ 12.10 hrs, Volume= 4.596 af
Primary = 54.0 cfs @ 12.10 hrs, Volume= 4.596 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 8P: E08 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 8P: E08 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.1		0.1	52.00	0.0		0.0
2.00	0.3		0.3	53.00	0.0		0.0
3.00	0.5		0.5	54.00	0.0		0.0
4.00	0.6		0.6	55.00	0.0		0.0
5.00	0.7		0.7	56.00	0.0		0.0
6.00	0.8		0.8	57.00	0.0		0.0
7.00	1.1		1.1	58.00	0.0		0.0
8.00	1.4		1.4	59.00	0.0		0.0
9.00	2.0		2.0	60.00	0.0		0.0
10.00	2.7		2.7	61.00	0.0		0.0
11.00	4.0		4.0	62.00	0.0		0.0
12.00	32.1		32.1	63.00	0.0		0.0
13.00	4.8		4.8	64.00	0.0		0.0
14.00	3.0		3.0	65.00	0.0		0.0
15.00	2.2		2.2	66.00	0.0		0.0
16.00	1.6		1.6	67.00	0.0		0.0
17.00	1.2		1.2	68.00	0.0		0.0
18.00	0.9		0.9	69.00	0.0		0.0
19.00	0.8		0.8	70.00	0.0		0.0
20.00	0.8		0.8	71.00	0.0		0.0
21.00	0.7		0.7	72.00	0.0		0.0
22.00	0.6		0.6				
23.00	0.6		0.6				
24.00	0.5		0.5				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 9P: E09 (Reserved Channel)

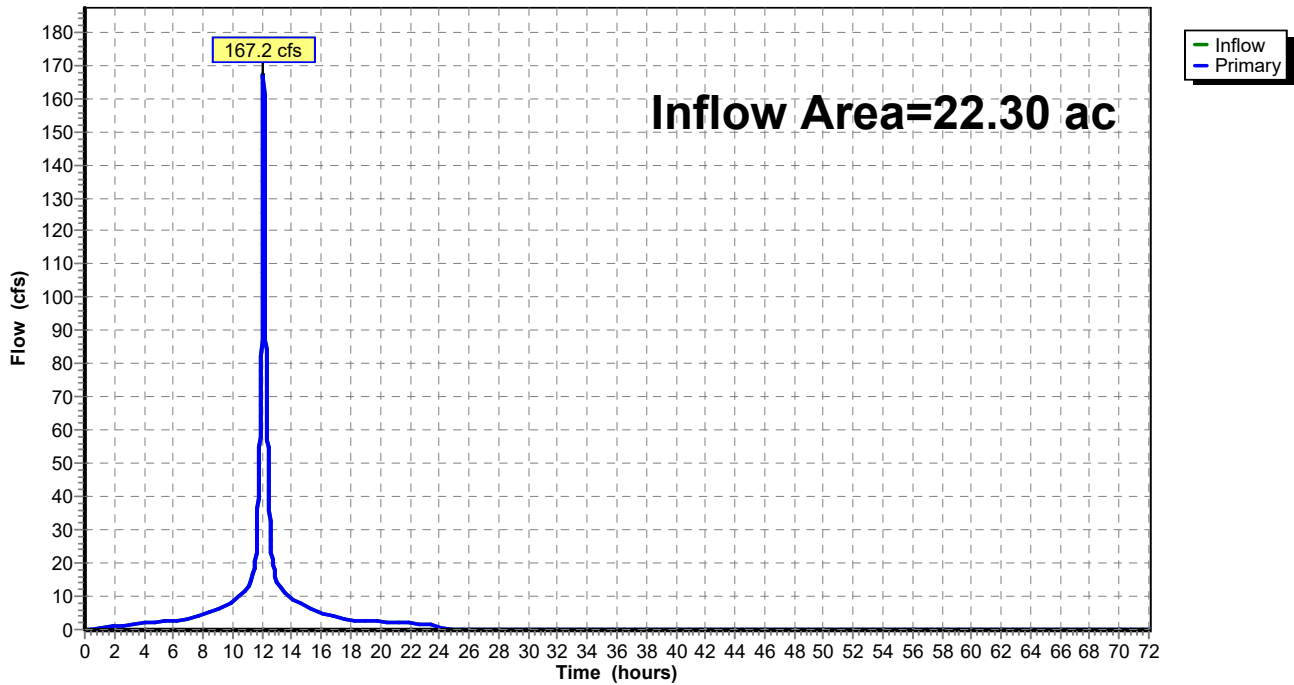
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.30 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 167.2 cfs @ 12.10 hrs, Volume= 14.235 af
Primary = 167.2 cfs @ 12.10 hrs, Volume= 14.235 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 9P: E09 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 9P: E09 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.4		0.4	52.00	0.0		0.0
2.00	1.0		1.0	53.00	0.0		0.0
3.00	1.5		1.5	54.00	0.0		0.0
4.00	1.9		1.9	55.00	0.0		0.0
5.00	2.3		2.3	56.00	0.0		0.0
6.00	2.6		2.6	57.00	0.0		0.0
7.00	3.4		3.4	58.00	0.0		0.0
8.00	4.3		4.3	59.00	0.0		0.0
9.00	6.3		6.3	60.00	0.0		0.0
10.00	8.3		8.3	61.00	0.0		0.0
11.00	12.4		12.4	62.00	0.0		0.0
12.00	99.5		99.5	63.00	0.0		0.0
13.00	14.7		14.7	64.00	0.0		0.0
14.00	9.2		9.2	65.00	0.0		0.0
15.00	6.9		6.9	66.00	0.0		0.0
16.00	4.8		4.8	67.00	0.0		0.0
17.00	3.8		3.8	68.00	0.0		0.0
18.00	2.9		2.9	69.00	0.0		0.0
19.00	2.6		2.6	70.00	0.0		0.0
20.00	2.3		2.3	71.00	0.0		0.0
21.00	2.1		2.1	72.00	0.0		0.0
22.00	1.9		1.9				
23.00	1.7		1.7				
24.00	1.5		1.5				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 10P: E10 (Reserved Channel)

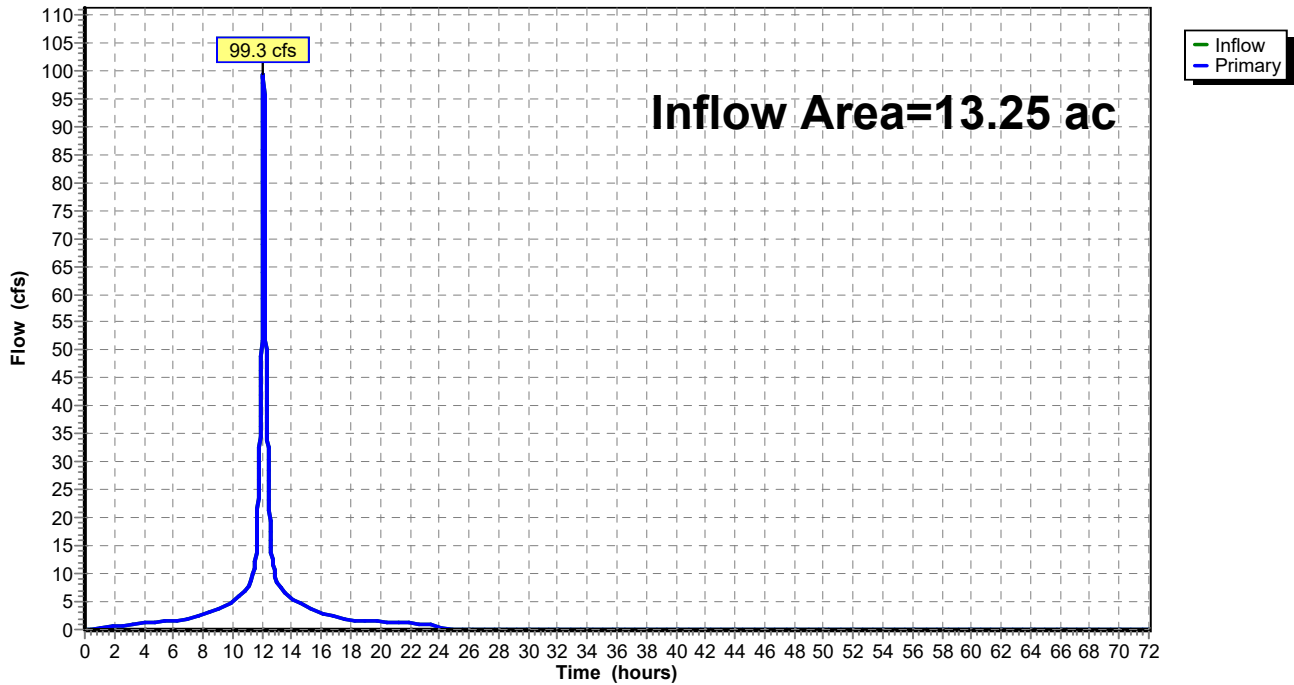
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.25 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 99.3 cfs @ 12.10 hrs, Volume= 8.458 af
Primary = 99.3 cfs @ 12.10 hrs, Volume= 8.458 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 10P: E10 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 10P: E10 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.6		0.6	53.00	0.0		0.0
3.00	0.9		0.9	54.00	0.0		0.0
4.00	1.1		1.1	55.00	0.0		0.0
5.00	1.3		1.3	56.00	0.0		0.0
6.00	1.5		1.5	57.00	0.0		0.0
7.00	2.0		2.0	58.00	0.0		0.0
8.00	2.6		2.6	59.00	0.0		0.0
9.00	3.7		3.7	60.00	0.0		0.0
10.00	5.0		5.0	61.00	0.0		0.0
11.00	7.4		7.4	62.00	0.0		0.0
12.00	59.1		59.1	63.00	0.0		0.0
13.00	8.7		8.7	64.00	0.0		0.0
14.00	5.4		5.4	65.00	0.0		0.0
15.00	4.1		4.1	66.00	0.0		0.0
16.00	2.9		2.9	67.00	0.0		0.0
17.00	2.3		2.3	68.00	0.0		0.0
18.00	1.7		1.7	69.00	0.0		0.0
19.00	1.5		1.5	70.00	0.0		0.0
20.00	1.4		1.4	71.00	0.0		0.0
21.00	1.3		1.3	72.00	0.0		0.0
22.00	1.1		1.1				
23.00	1.0		1.0				
24.00	0.9		0.9				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 11P: E11 (Reserved Channel)

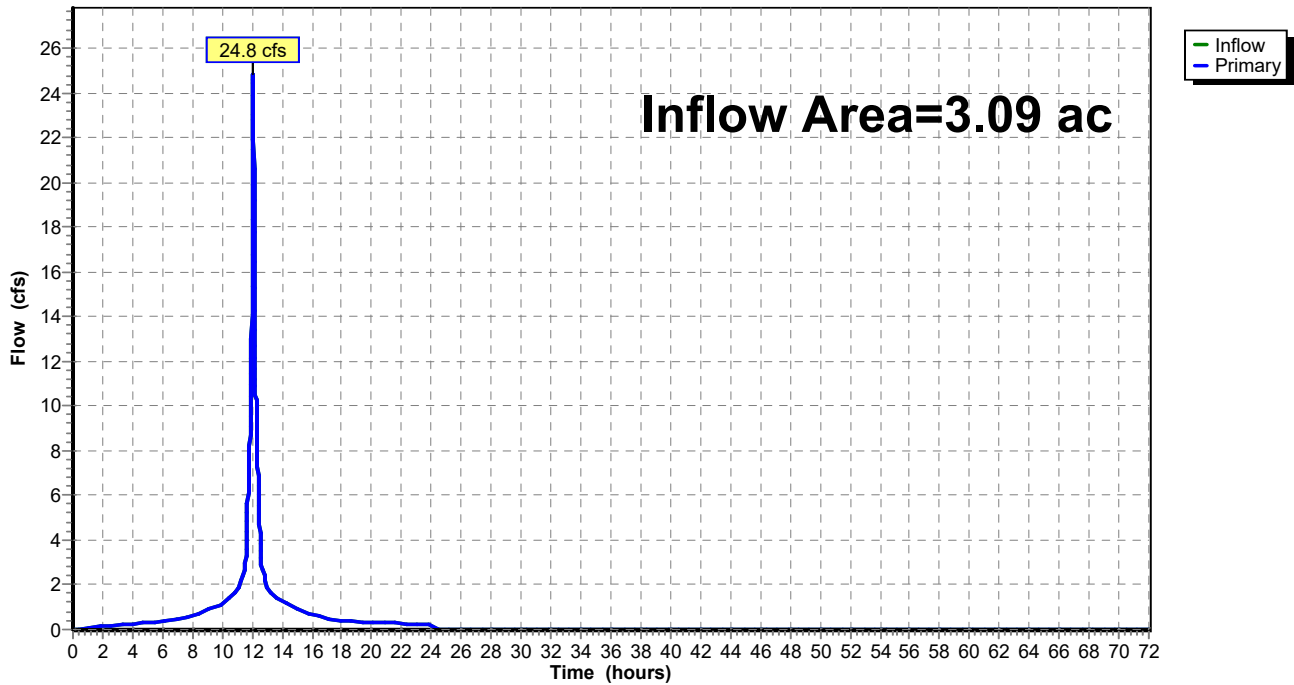
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.09 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 24.8 cfs @ 12.07 hrs, Volume= 1.973 af
Primary = 24.8 cfs @ 12.07 hrs, Volume= 1.973 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 11P: E11 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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Hydrograph for Pond 11P: E11 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.1		0.1	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.4		0.4	57.00	0.0		0.0
7.00	0.5		0.5	58.00	0.0		0.0
8.00	0.6		0.6	59.00	0.0		0.0
9.00	0.9		0.9	60.00	0.0		0.0
10.00	1.2		1.2	61.00	0.0		0.0
11.00	1.7		1.7	62.00	0.0		0.0
12.00	16.8		16.8	63.00	0.0		0.0
13.00	2.0		2.0	64.00	0.0		0.0
14.00	1.3		1.3	65.00	0.0		0.0
15.00	0.9		0.9	66.00	0.0		0.0
16.00	0.7		0.7	67.00	0.0		0.0
17.00	0.5		0.5	68.00	0.0		0.0
18.00	0.4		0.4	69.00	0.0		0.0
19.00	0.4		0.4	70.00	0.0		0.0
20.00	0.3		0.3	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Existing Drainage Areas

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Summary for Pond 12P: E12 (Reserved Channel)

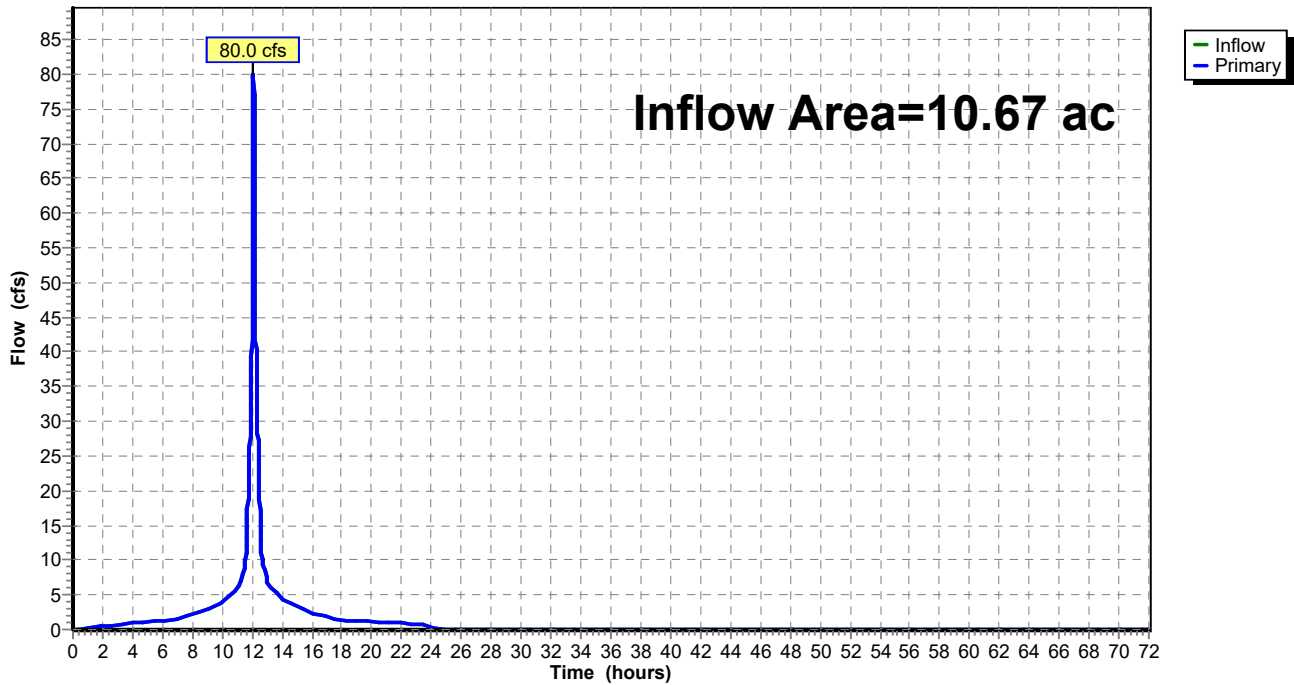
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.67 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 80.0 cfs @ 12.10 hrs, Volume= 6.811 af
Primary = 80.0 cfs @ 12.10 hrs, Volume= 6.811 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 12P: E12 (Reserved Channel)

Hydrograph



Conley Terminal_Existing Drainage Areas

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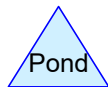
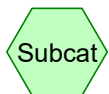
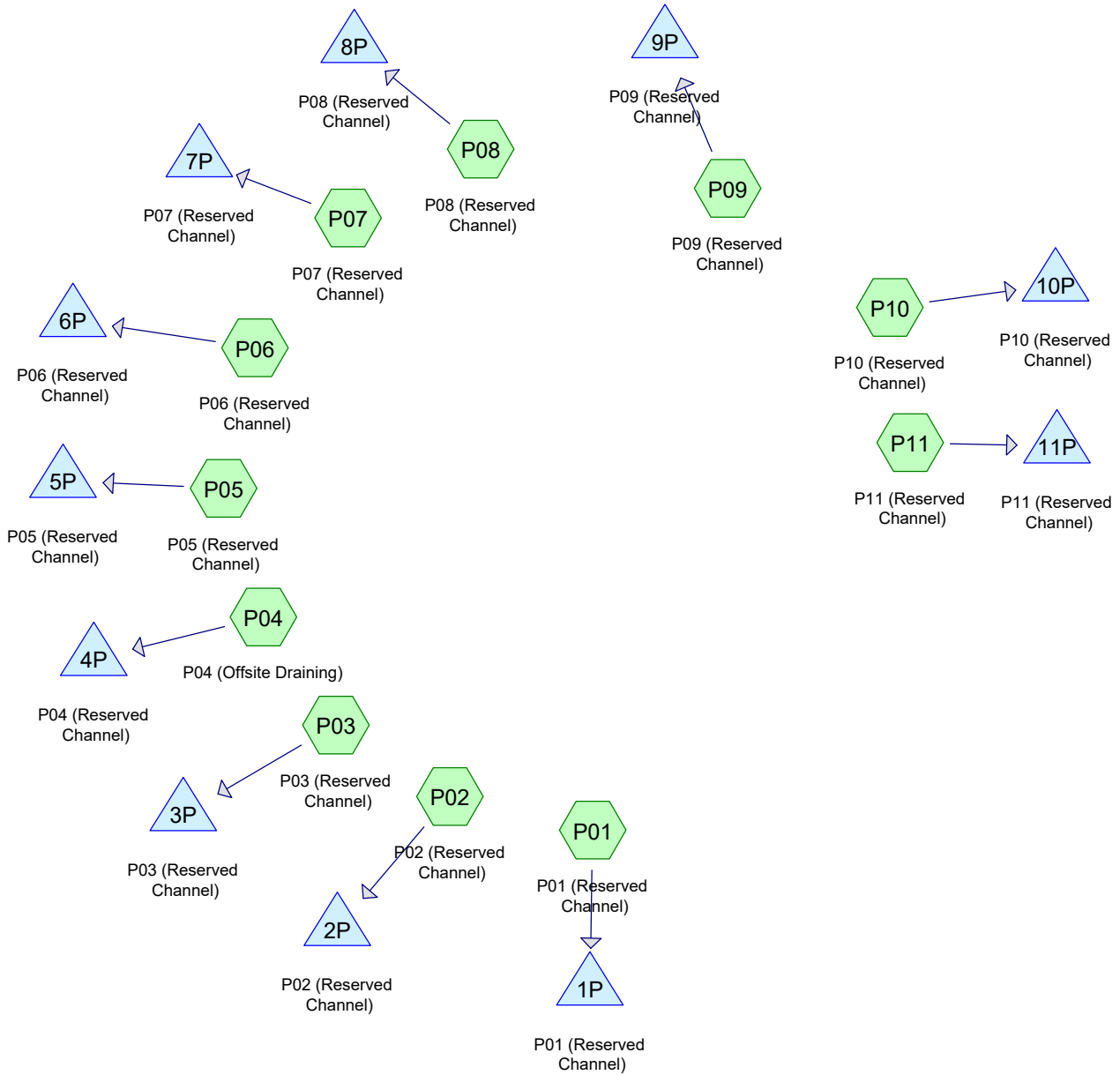
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Hydrograph for Pond 12P: E12 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.5		0.5	53.00	0.0		0.0
3.00	0.7		0.7	54.00	0.0		0.0
4.00	0.9		0.9	55.00	0.0		0.0
5.00	1.1		1.1	56.00	0.0		0.0
6.00	1.2		1.2	57.00	0.0		0.0
7.00	1.6		1.6	58.00	0.0		0.0
8.00	2.1		2.1	59.00	0.0		0.0
9.00	3.0		3.0	60.00	0.0		0.0
10.00	4.0		4.0	61.00	0.0		0.0
11.00	5.9		5.9	62.00	0.0		0.0
12.00	47.6		47.6	63.00	0.0		0.0
13.00	7.0		7.0	64.00	0.0		0.0
14.00	4.4		4.4	65.00	0.0		0.0
15.00	3.3		3.3	66.00	0.0		0.0
16.00	2.3		2.3	67.00	0.0		0.0
17.00	1.8		1.8	68.00	0.0		0.0
18.00	1.4		1.4	69.00	0.0		0.0
19.00	1.2		1.2	70.00	0.0		0.0
20.00	1.1		1.1	71.00	0.0		0.0
21.00	1.0		1.0	72.00	0.0		0.0
22.00	0.9		0.9				
23.00	0.8		0.8				
24.00	0.7		0.7				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				



Routing Diagram for Conley Terminal_Proposed Drainage Areas

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Conley Terminal_Proposed Drainage Areas

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
87.67	98	Paved parking, HSG B (P01, P02, P03, P04, P05, P06, P07, P08, P09, P10, P11)
87.67	98	TOTAL AREA

Conley Terminal_Proposed Drainage Areas

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.00	HSG A	
87.67	HSG B	P01, P02, P03, P04, P05, P06, P07, P08, P09, P10, P11
0.00	HSG C	
0.00	HSG D	
0.00	Other	
87.67		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.00	87.67	0.00	0.00	0.00	87.67	Paved parking	P01, P02, P03, P04, P05, P06, P07, P08, P09, P10, P11
0.00	87.67	0.00	0.00	0.00	87.67	TOTAL AREA	

Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 2-Year Rainfall=3.20"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentP01: P01 (Reserved)	Runoff Area=2.32 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=7.5 cfs 0.574 af
SubcatchmentP02: P02 (Reserved)	Runoff Area=2.64 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=8.5 cfs 0.653 af
SubcatchmentP03: P03 (Reserved)	Runoff Area=3.27 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=10.5 cfs 0.809 af
SubcatchmentP04: P04 (Offsite Draining)	Runoff Area=1.32 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=4.2 cfs 0.326 af
SubcatchmentP05: P05 (Reserved)	Runoff Area=12.71 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=38.2 cfs 3.143 af
SubcatchmentP06: P06 (Reserved)	Runoff Area=8.90 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=26.7 cfs 2.201 af
SubcatchmentP07: P07 (Reserved)	Runoff Area=7.20 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=21.6 cfs 1.780 af
SubcatchmentP08: P08 (Reserved)	Runoff Area=22.30 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=66.9 cfs 5.515 af
SubcatchmentP09: P09 (Reserved)	Runoff Area=13.25 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=39.8 cfs 3.277 af
SubcatchmentP10: P10 (Reserved)	Runoff Area=3.09 ac 100.00% Impervious Runoff Depth=2.97" Tc=5.0 min CN=98 Runoff=9.9 cfs 0.764 af
SubcatchmentP11: P11 (Reserved)	Runoff Area=10.67 ac 100.00% Impervious Runoff Depth=2.97" Tc=7.0 min CN=98 Runoff=32.0 cfs 2.639 af
Pond 1P: P01 (Reserved Channel)	Inflow=7.5 cfs 0.574 af Primary=7.5 cfs 0.574 af
Pond 2P: P02 (Reserved Channel)	Inflow=8.5 cfs 0.653 af Primary=8.5 cfs 0.653 af
Pond 3P: P03 (Reserved Channel)	Inflow=10.5 cfs 0.809 af Primary=10.5 cfs 0.809 af
Pond 4P: P04 (Reserved Channel)	Inflow=4.2 cfs 0.326 af Primary=4.2 cfs 0.326 af
Pond 5P: P05 (Reserved Channel)	Inflow=38.2 cfs 3.143 af Primary=38.2 cfs 3.143 af

Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 2-Year Rainfall=3.20"

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Pond 6P: P06 (Reserved Channel)

Inflow=26.7 cfs 2.201 af
Primary=26.7 cfs 2.201 af

Pond 7P: P07 (Reserved Channel)

Inflow=21.6 cfs 1.780 af
Primary=21.6 cfs 1.780 af

Pond 8P: P08 (Reserved Channel)

Inflow=66.9 cfs 5.515 af
Primary=66.9 cfs 5.515 af

Pond 9P: P09 (Reserved Channel)

Inflow=39.8 cfs 3.277 af
Primary=39.8 cfs 3.277 af

Pond 10P: P10 (Reserved Channel)

Inflow=9.9 cfs 0.764 af
Primary=9.9 cfs 0.764 af

Pond 11P: P11 (Reserved Channel)

Inflow=32.0 cfs 2.639 af
Primary=32.0 cfs 2.639 af

Total Runoff Area = 87.67 ac Runoff Volume = 21.680 af Average Runoff Depth = 2.97"
0.00% Pervious = 0.00 ac 100.00% Impervious = 87.67 ac

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P01: P01 (Reserved Channel)

Runoff = 7.5 cfs @ 12.07 hrs, Volume= 0.574 af, Depth= 2.97"

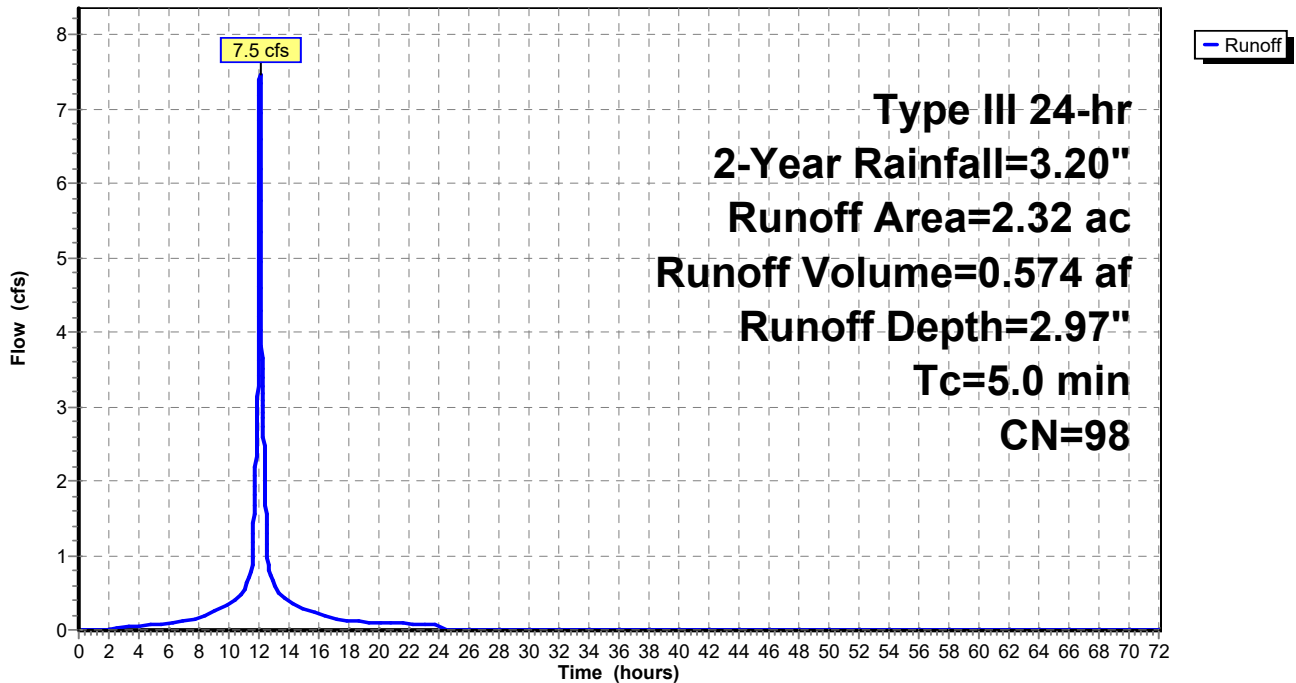
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
2.32	98	Paved parking, HSG B
2.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P01: P01 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 2-Year Rainfall=3.20"

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Hydrograph for Subcatchment P01: P01 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.1	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.1	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.1	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.1	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.2	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.2	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.3	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.5	62.00	3.20	2.97	0.0
12.00	1.60	1.38	5.0	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.6	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.4	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.3	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.2	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.2	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.1	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.1				
23.00	3.17	2.94	0.1				
24.00	3.20	2.97	0.1				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment P02: P02 (Reserved Channel)

Runoff = 8.5 cfs @ 12.07 hrs, Volume= 0.653 af, Depth= 2.97"

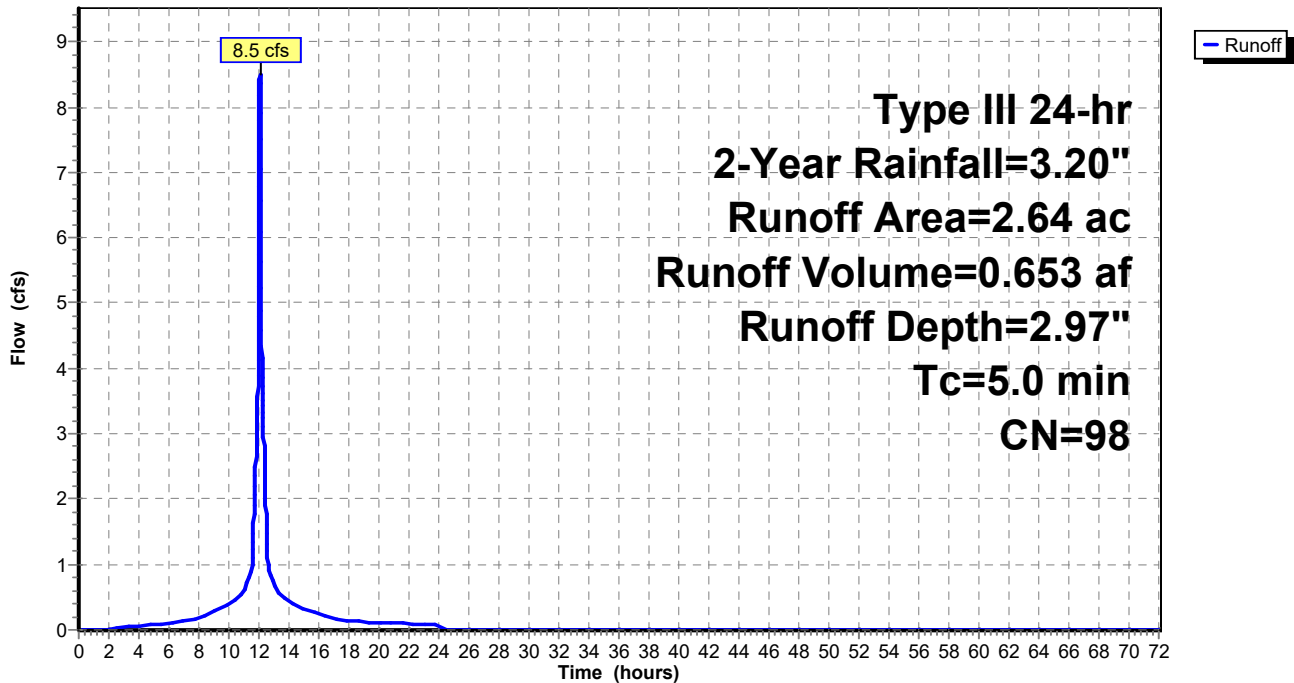
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
2.64	98	Paved parking, HSG B
2.64		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P02: P02 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P02: P02 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.1	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.1	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.1	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.1	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.2	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.4	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.6	62.00	3.20	2.97	0.0
12.00	1.60	1.38	5.7	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.7	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.4	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.3	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.2	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.2	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.1	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.1				
23.00	3.17	2.94	0.1				
24.00	3.20	2.97	0.1				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P03: P03 (Reserved Channel)

Runoff = 10.5 cfs @ 12.07 hrs, Volume= 0.809 af, Depth= 2.97"

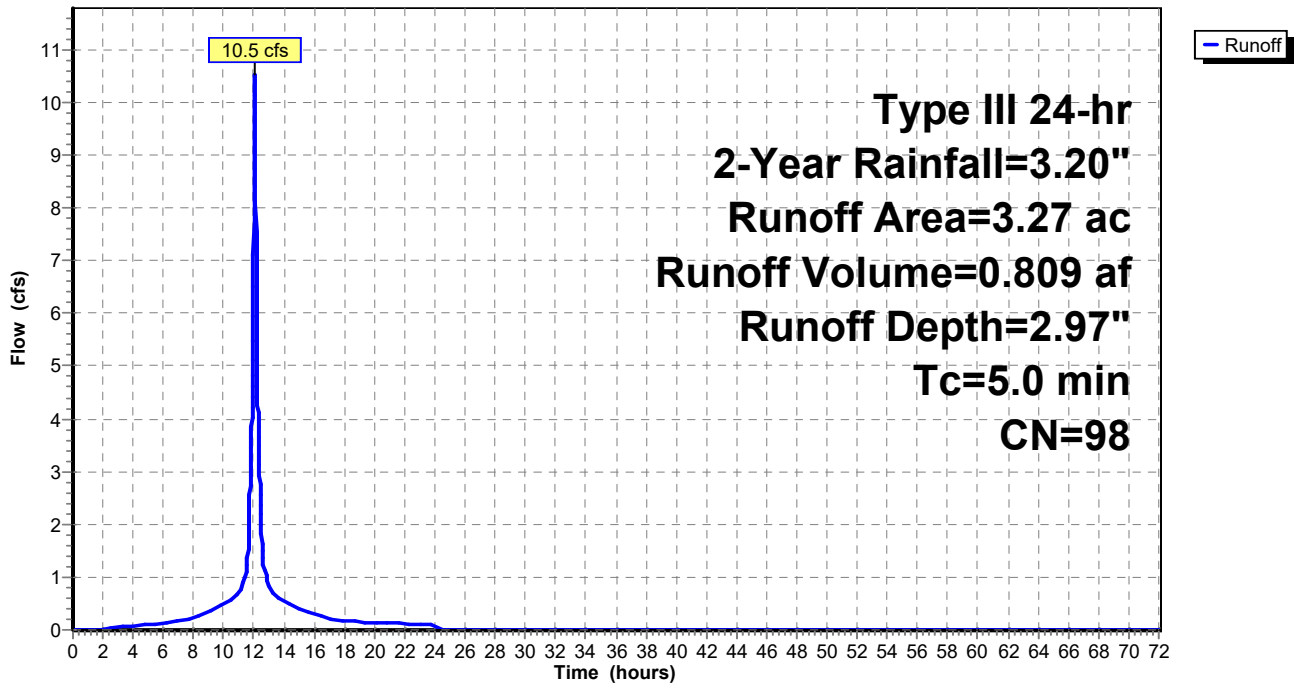
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
3.27	98	Paved parking, HSG B
3.27		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P03: P03 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P03: P03 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.1	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.1	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.1	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.2	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.2	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.5	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.7	62.00	3.20	2.97	0.0
12.00	1.60	1.38	7.1	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.8	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.5	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.4	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.3	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.2	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.2	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.2	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.1				
23.00	3.17	2.94	0.1				
24.00	3.20	2.97	0.1				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P04: P04 (Offsite Draining)

Runoff = 4.2 cfs @ 12.07 hrs, Volume= 0.326 af, Depth= 2.97"

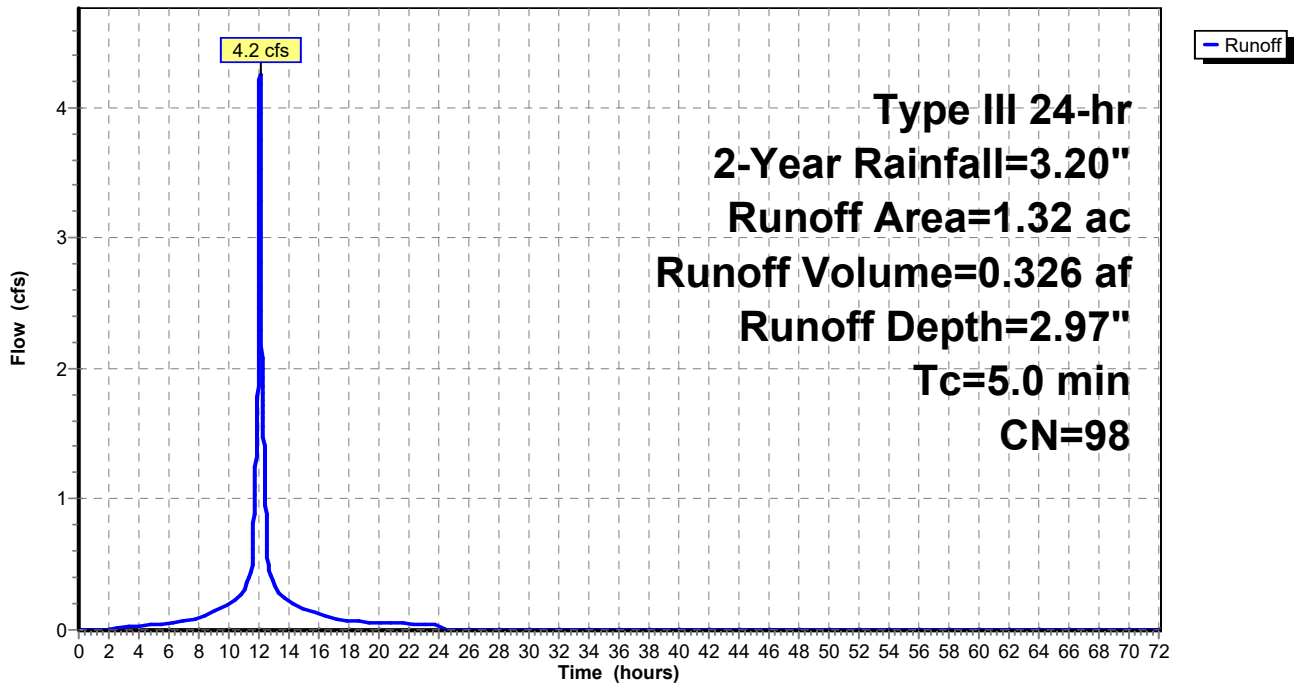
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
1.32	98	Paved parking, HSG B
1.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P04: P04 (Offsite Draining)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P04: P04 (Offsite Draining)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.0	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.0	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.0	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.1	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.1	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.1	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.2	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.3	62.00	3.20	2.97	0.0
12.00	1.60	1.38	2.9	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.3	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.2	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.2	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.1	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.1	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.1	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.0				
23.00	3.17	2.94	0.0				
24.00	3.20	2.97	0.0				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P05: P05 (Reserved Channel)

Runoff = 38.2 cfs @ 12.10 hrs, Volume= 3.143 af, Depth= 2.97"

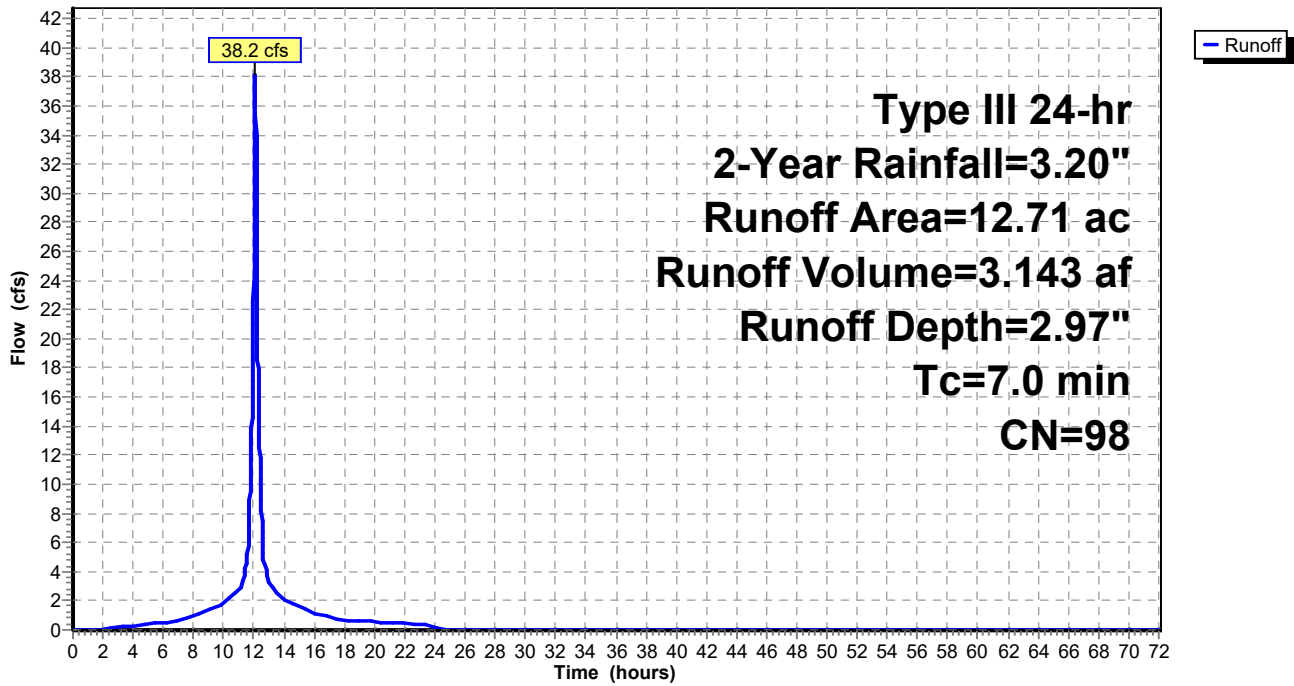
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
12.71	98	Paved parking, HSG B
12.71		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P05: P05 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P05: P05 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.2	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.3	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.4	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.5	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.7	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.9	59.00	3.20	2.97	0.0
9.00	0.47	0.29	1.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.8	61.00	3.20	2.97	0.0
11.00	0.80	0.60	2.8	62.00	3.20	2.97	0.0
12.00	1.60	1.38	22.6	63.00	3.20	2.97	0.0
13.00	2.40	2.17	3.4	64.00	3.20	2.97	0.0
14.00	2.60	2.37	2.1	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.6	66.00	3.20	2.97	0.0
16.00	2.84	2.60	1.1	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.9	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.7	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.6	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.5	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.5	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.4				
23.00	3.17	2.94	0.4				
24.00	3.20	2.97	0.4				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P06: P06 (Reserved Channel)

Runoff = 26.7 cfs @ 12.10 hrs, Volume= 2.201 af, Depth= 2.97"

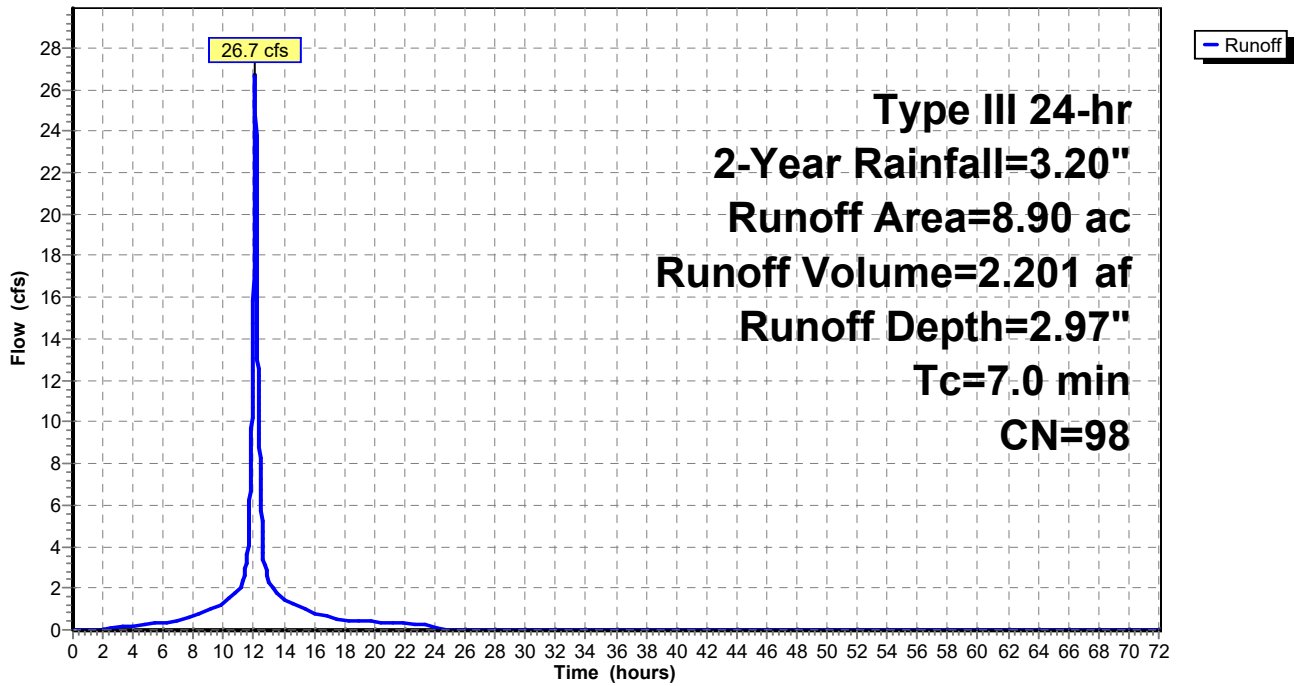
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
8.90	98	Paved parking, HSG B
8.90		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P06: P06 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P06: P06 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.1	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.2	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.3	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.3	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.5	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.6	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.9	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.3	61.00	3.20	2.97	0.0
11.00	0.80	0.60	1.9	62.00	3.20	2.97	0.0
12.00	1.60	1.38	15.8	63.00	3.20	2.97	0.0
13.00	2.40	2.17	2.4	64.00	3.20	2.97	0.0
14.00	2.60	2.37	1.5	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.1	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.8	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.6	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.5	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.4	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.4	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.3	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.3				
23.00	3.17	2.94	0.3				
24.00	3.20	2.97	0.2				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P07: P07 (Reserved Channel)

Runoff = 21.6 cfs @ 12.10 hrs, Volume= 1.780 af, Depth= 2.97"

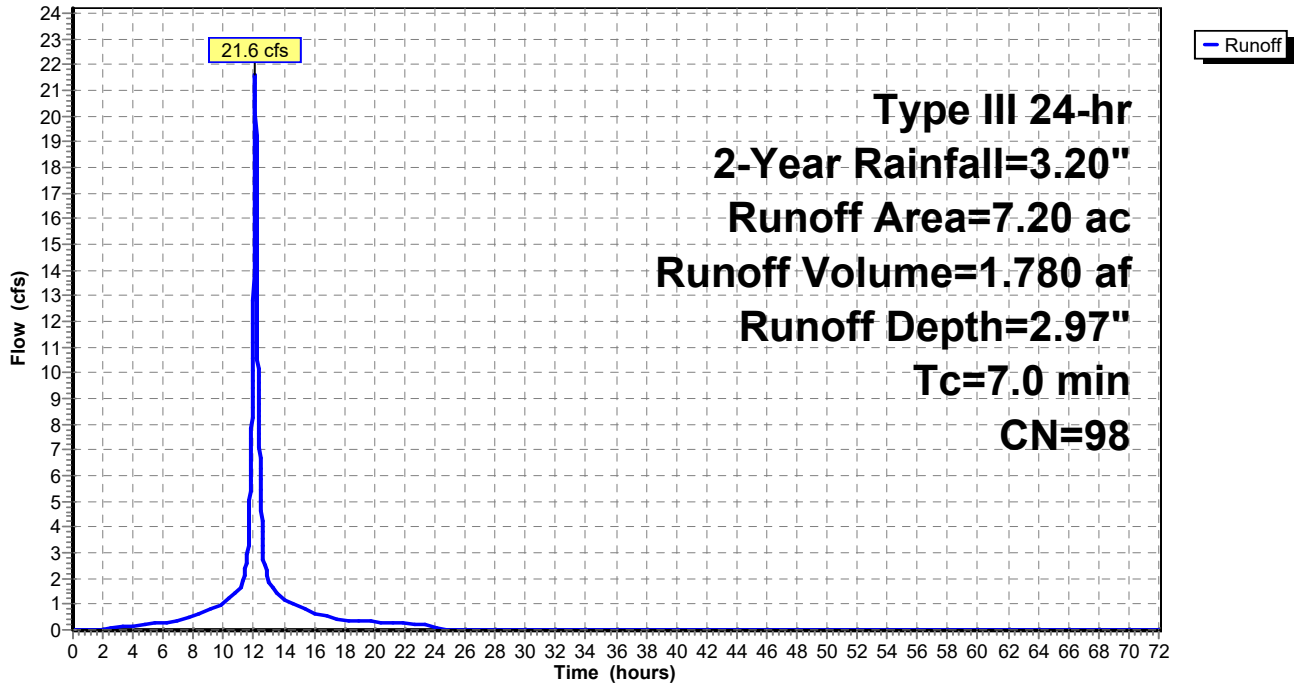
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
7.20	98	Paved parking, HSG B
7.20		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P07: P07 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P07: P07 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.1	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.2	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.2	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.3	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.4	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.5	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.8	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.0	61.00	3.20	2.97	0.0
11.00	0.80	0.60	1.6	62.00	3.20	2.97	0.0
12.00	1.60	1.38	12.8	63.00	3.20	2.97	0.0
13.00	2.40	2.17	1.9	64.00	3.20	2.97	0.0
14.00	2.60	2.37	1.2	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.9	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.6	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.5	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.4	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.3	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.3	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.3	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.3				
23.00	3.17	2.94	0.2				
24.00	3.20	2.97	0.2				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P08: P08 (Reserved Channel)

Runoff = 66.9 cfs @ 12.10 hrs, Volume= 5.515 af, Depth= 2.97"

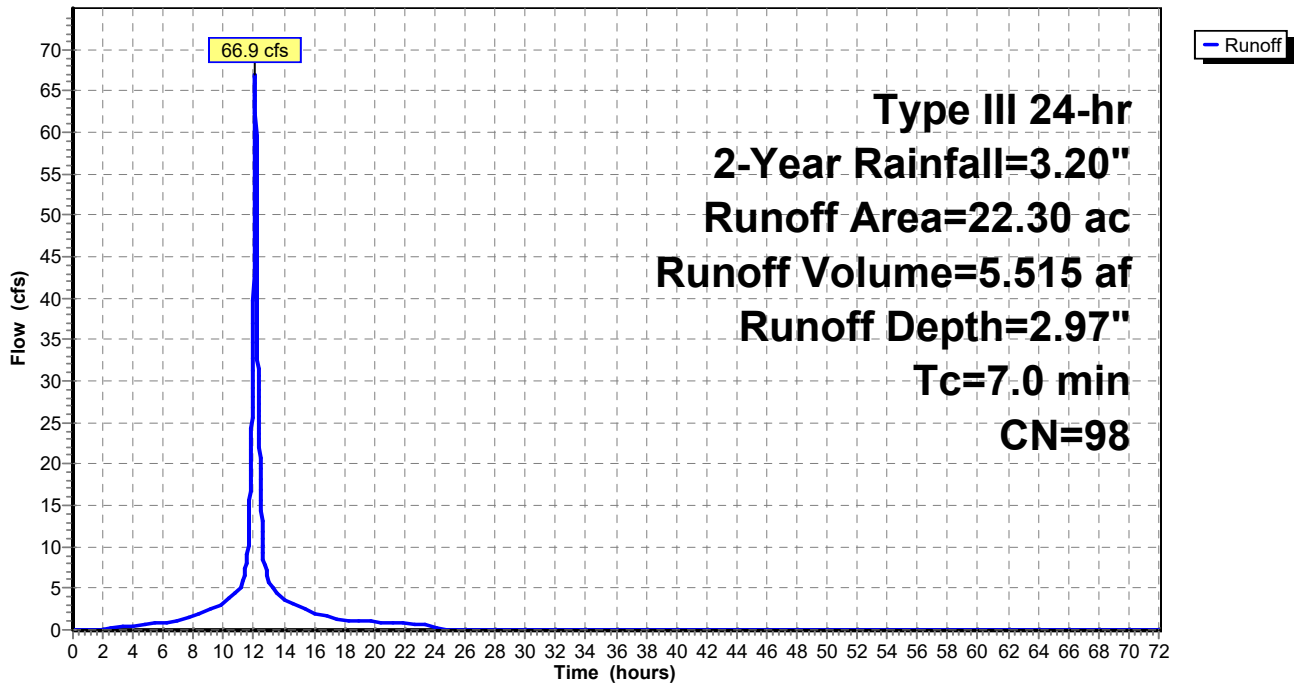
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
22.30	98	Paved parking, HSG B
22.30		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P08: P08 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P08: P08 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.3	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.5	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.7	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.8	57.00	3.20	2.97	0.0
7.00	0.29	0.14	1.2	58.00	3.20	2.97	0.0
8.00	0.36	0.20	1.5	59.00	3.20	2.97	0.0
9.00	0.47	0.29	2.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	3.2	61.00	3.20	2.97	0.0
11.00	0.80	0.60	4.8	62.00	3.20	2.97	0.0
12.00	1.60	1.38	39.7	63.00	3.20	2.97	0.0
13.00	2.40	2.17	5.9	64.00	3.20	2.97	0.0
14.00	2.60	2.37	3.7	65.00	3.20	2.97	0.0
15.00	2.73	2.50	2.8	66.00	3.20	2.97	0.0
16.00	2.84	2.60	2.0	67.00	3.20	2.97	0.0
17.00	2.91	2.68	1.5	68.00	3.20	2.97	0.0
18.00	2.97	2.74	1.2	69.00	3.20	2.97	0.0
19.00	3.02	2.79	1.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.9	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.9	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.8				
23.00	3.17	2.94	0.7				
24.00	3.20	2.97	0.6				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P09: P09 (Reserved Channel)

Runoff = 39.8 cfs @ 12.10 hrs, Volume= 3.277 af, Depth= 2.97"

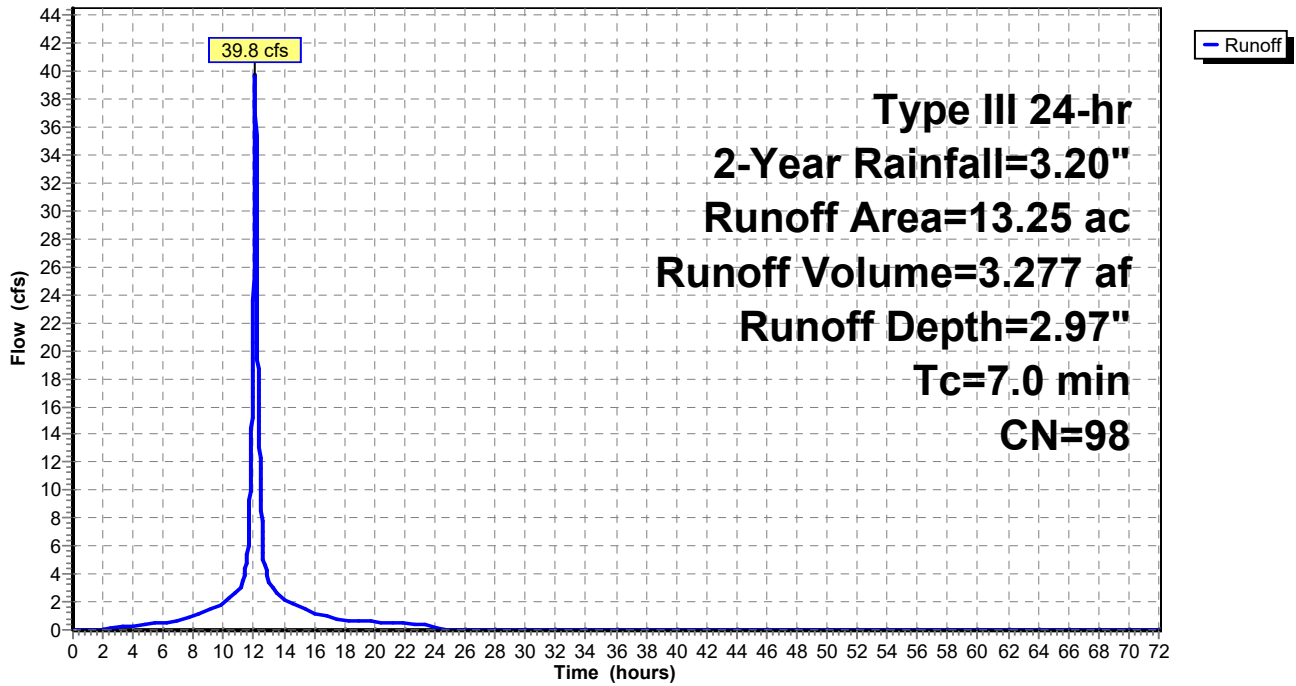
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
13.25	98	Paved parking, HSG B
13.25		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P09: P09 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P09: P09 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.2	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.3	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.4	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.5	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.7	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.9	59.00	3.20	2.97	0.0
9.00	0.47	0.29	1.4	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.9	61.00	3.20	2.97	0.0
11.00	0.80	0.60	2.9	62.00	3.20	2.97	0.0
12.00	1.60	1.38	23.6	63.00	3.20	2.97	0.0
13.00	2.40	2.17	3.5	64.00	3.20	2.97	0.0
14.00	2.60	2.37	2.2	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.6	66.00	3.20	2.97	0.0
16.00	2.84	2.60	1.2	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.9	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.7	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.6	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.6	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.5	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.5				
23.00	3.17	2.94	0.4				
24.00	3.20	2.97	0.4				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P10: P10 (Reserved Channel)

Runoff = 9.9 cfs @ 12.07 hrs, Volume= 0.764 af, Depth= 2.97"

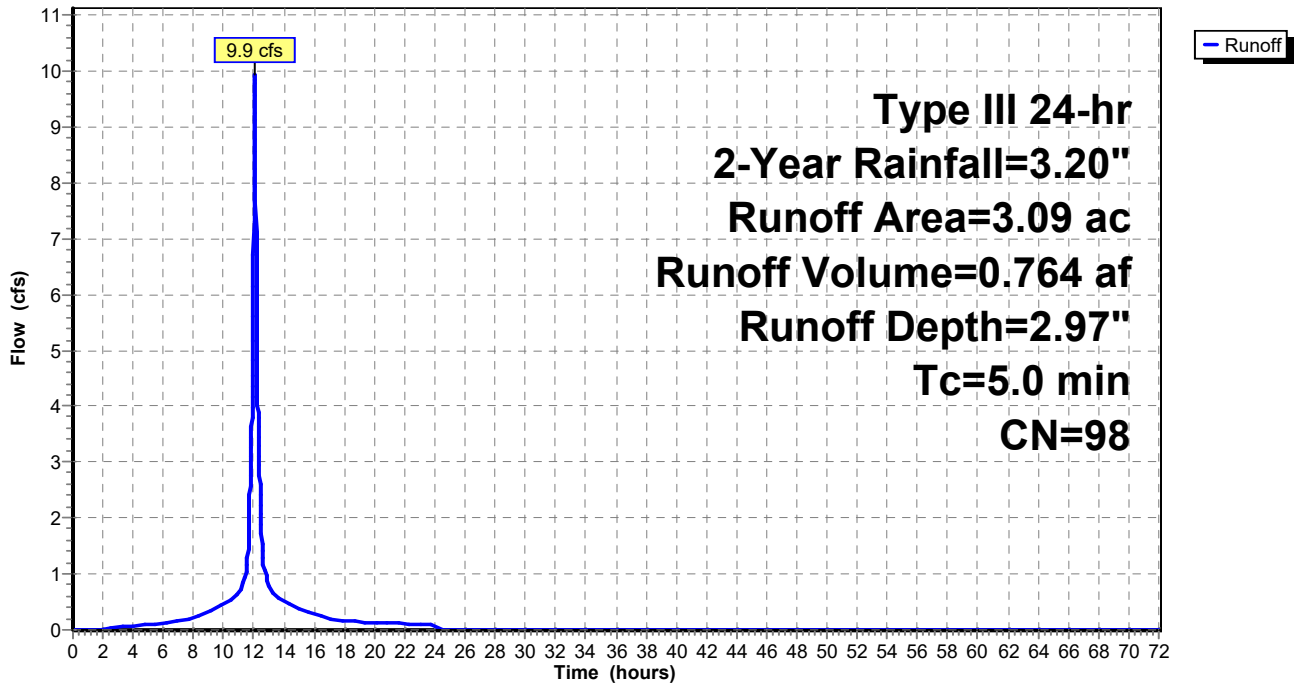
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
3.09	98	Paved parking, HSG B
3.09		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P10: P10 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P10: P10 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.0	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.0	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.1	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.1	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.1	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.2	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.2	59.00	3.20	2.97	0.0
9.00	0.47	0.29	0.3	60.00	3.20	2.97	0.0
10.00	0.60	0.41	0.4	61.00	3.20	2.97	0.0
11.00	0.80	0.60	0.7	62.00	3.20	2.97	0.0
12.00	1.60	1.38	6.7	63.00	3.20	2.97	0.0
13.00	2.40	2.17	0.8	64.00	3.20	2.97	0.0
14.00	2.60	2.37	0.5	65.00	3.20	2.97	0.0
15.00	2.73	2.50	0.4	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.3	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.2	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.2	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.1	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.1	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.1	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.1				
23.00	3.17	2.94	0.1				
24.00	3.20	2.97	0.1				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P11: P11 (Reserved Channel)

Runoff = 32.0 cfs @ 12.10 hrs, Volume= 2.639 af, Depth= 2.97"

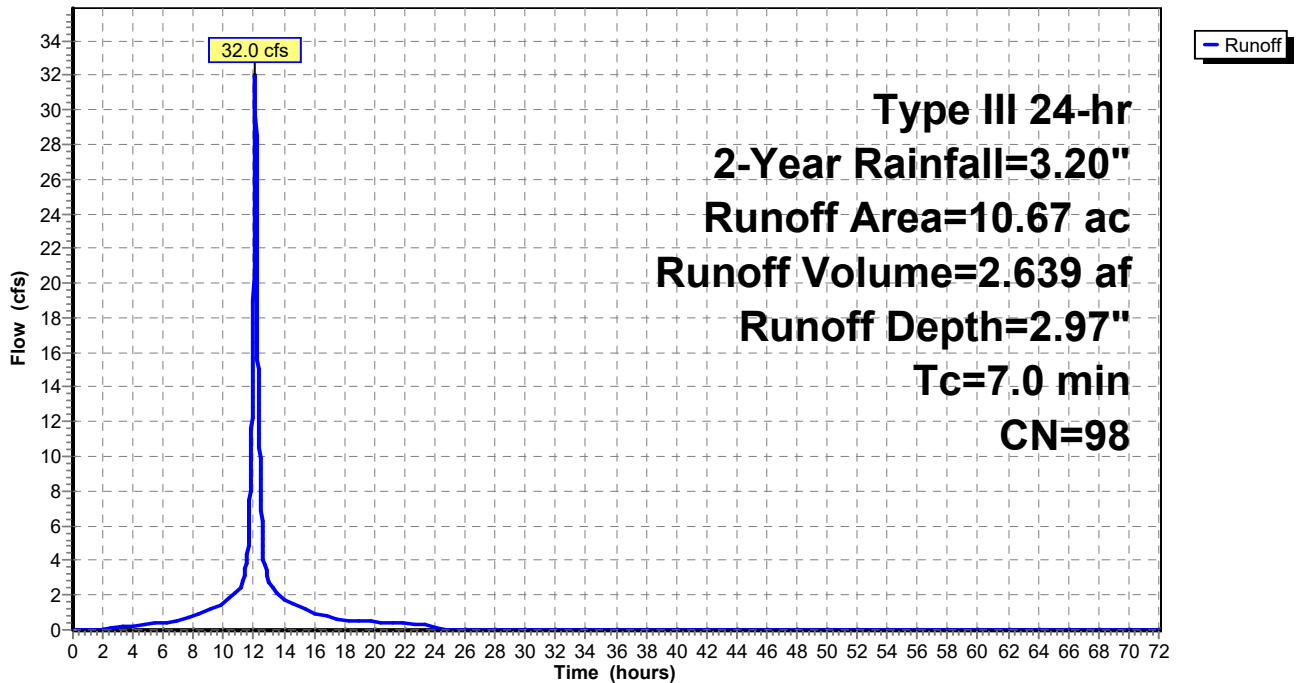
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

Area (ac)	CN	Description
10.67	98	Paved parking, HSG B
10.67		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P11: P11 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

Type III 24-hr 2-Year Rainfall=3.20"

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Hydrograph for Subcatchment P11: P11 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	3.20	2.97	0.0
1.00	0.03	0.00	0.0	52.00	3.20	2.97	0.0
2.00	0.06	0.00	0.1	53.00	3.20	2.97	0.0
3.00	0.10	0.01	0.1	54.00	3.20	2.97	0.0
4.00	0.14	0.03	0.2	55.00	3.20	2.97	0.0
5.00	0.18	0.06	0.3	56.00	3.20	2.97	0.0
6.00	0.23	0.09	0.4	57.00	3.20	2.97	0.0
7.00	0.29	0.14	0.6	58.00	3.20	2.97	0.0
8.00	0.36	0.20	0.7	59.00	3.20	2.97	0.0
9.00	0.47	0.29	1.1	60.00	3.20	2.97	0.0
10.00	0.60	0.41	1.5	61.00	3.20	2.97	0.0
11.00	0.80	0.60	2.3	62.00	3.20	2.97	0.0
12.00	1.60	1.38	19.0	63.00	3.20	2.97	0.0
13.00	2.40	2.17	2.8	64.00	3.20	2.97	0.0
14.00	2.60	2.37	1.8	65.00	3.20	2.97	0.0
15.00	2.73	2.50	1.3	66.00	3.20	2.97	0.0
16.00	2.84	2.60	0.9	67.00	3.20	2.97	0.0
17.00	2.91	2.68	0.7	68.00	3.20	2.97	0.0
18.00	2.97	2.74	0.6	69.00	3.20	2.97	0.0
19.00	3.02	2.79	0.5	70.00	3.20	2.97	0.0
20.00	3.06	2.83	0.5	71.00	3.20	2.97	0.0
21.00	3.10	2.87	0.4	72.00	3.20	2.97	0.0
22.00	3.14	2.91	0.4				
23.00	3.17	2.94	0.3				
24.00	3.20	2.97	0.3				
25.00	3.20	2.97	0.0				
26.00	3.20	2.97	0.0				
27.00	3.20	2.97	0.0				
28.00	3.20	2.97	0.0				
29.00	3.20	2.97	0.0				
30.00	3.20	2.97	0.0				
31.00	3.20	2.97	0.0				
32.00	3.20	2.97	0.0				
33.00	3.20	2.97	0.0				
34.00	3.20	2.97	0.0				
35.00	3.20	2.97	0.0				
36.00	3.20	2.97	0.0				
37.00	3.20	2.97	0.0				
38.00	3.20	2.97	0.0				
39.00	3.20	2.97	0.0				
40.00	3.20	2.97	0.0				
41.00	3.20	2.97	0.0				
42.00	3.20	2.97	0.0				
43.00	3.20	2.97	0.0				
44.00	3.20	2.97	0.0				
45.00	3.20	2.97	0.0				
46.00	3.20	2.97	0.0				
47.00	3.20	2.97	0.0				
48.00	3.20	2.97	0.0				
49.00	3.20	2.97	0.0				
50.00	3.20	2.97	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 1P: P01 (Reserved Channel)

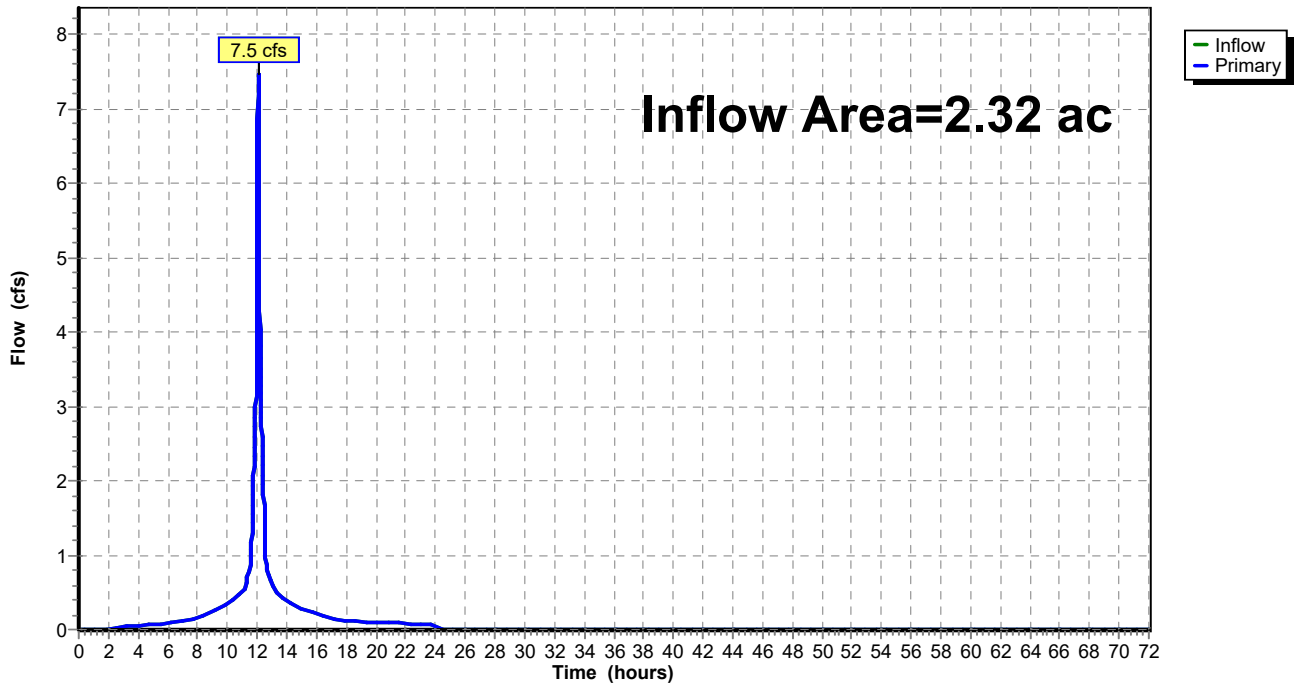
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.32 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 7.5 cfs @ 12.07 hrs, Volume= 0.574 af
Primary = 7.5 cfs @ 12.07 hrs, Volume= 0.574 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 1P: P01 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 1P: P01 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.2		0.2	60.00	0.0		0.0
10.00	0.3		0.3	61.00	0.0		0.0
11.00	0.5		0.5	62.00	0.0		0.0
12.00	5.0		5.0	63.00	0.0		0.0
13.00	0.6		0.6	64.00	0.0		0.0
14.00	0.4		0.4	65.00	0.0		0.0
15.00	0.3		0.3	66.00	0.0		0.0
16.00	0.2		0.2	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 2P: P02 (Reserved Channel)

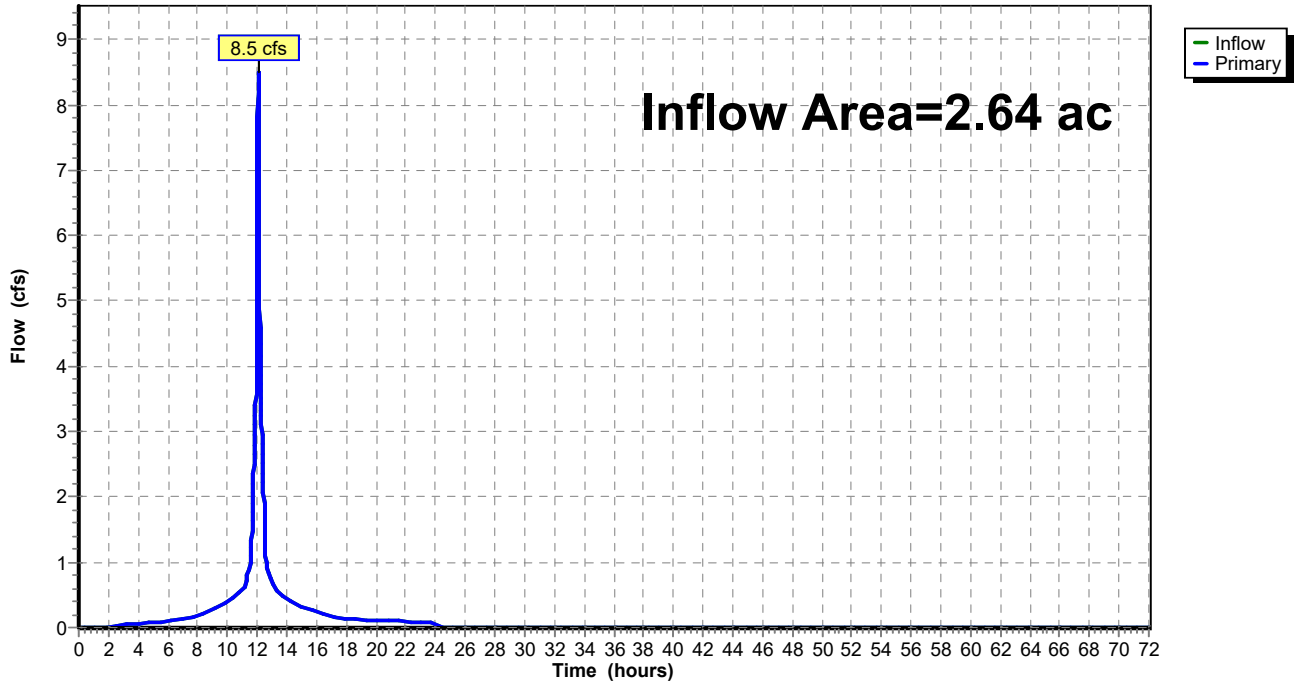
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.64 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 8.5 cfs @ 12.07 hrs, Volume= 0.653 af
Primary = 8.5 cfs @ 12.07 hrs, Volume= 0.653 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 2P: P02 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 2P: P02 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.3		0.3	60.00	0.0		0.0
10.00	0.4		0.4	61.00	0.0		0.0
11.00	0.6		0.6	62.00	0.0		0.0
12.00	5.7		5.7	63.00	0.0		0.0
13.00	0.7		0.7	64.00	0.0		0.0
14.00	0.4		0.4	65.00	0.0		0.0
15.00	0.3		0.3	66.00	0.0		0.0
16.00	0.2		0.2	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 3P: P03 (Reserved Channel)

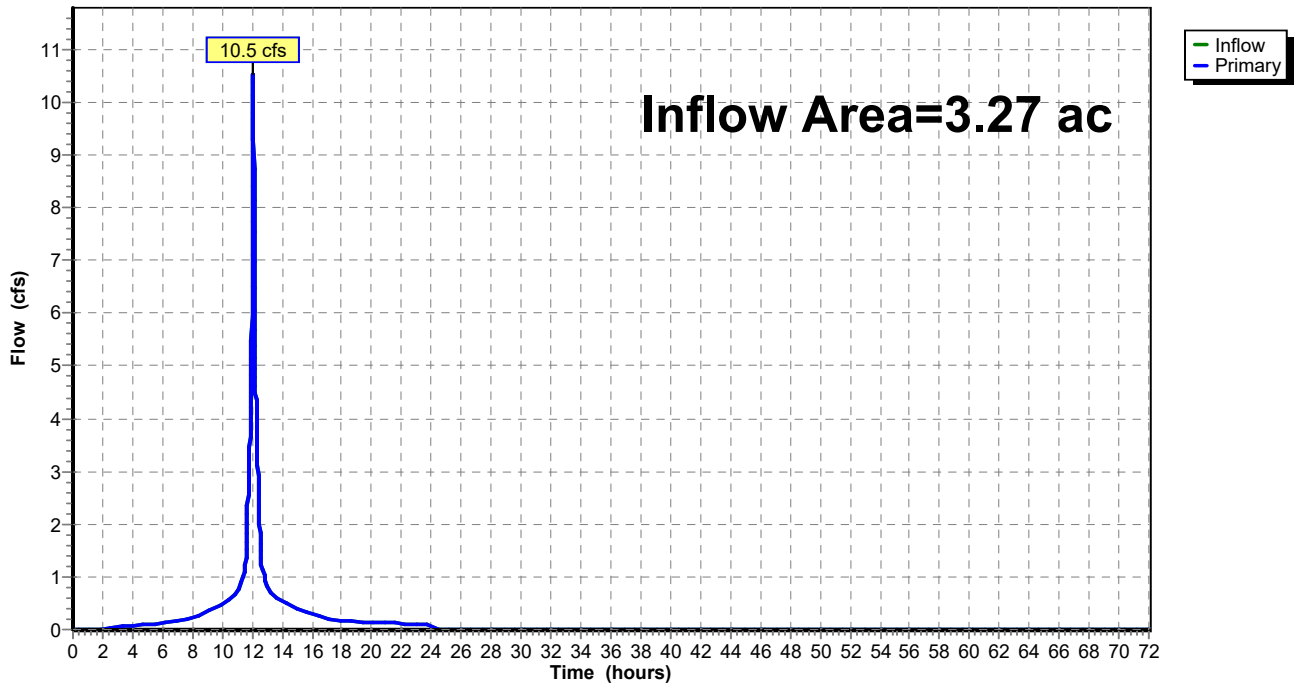
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.27 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 10.5 cfs @ 12.07 hrs, Volume= 0.809 af
Primary = 10.5 cfs @ 12.07 hrs, Volume= 0.809 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 3P: P03 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 3P: P03 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.3		0.3	60.00	0.0		0.0
10.00	0.5		0.5	61.00	0.0		0.0
11.00	0.7		0.7	62.00	0.0		0.0
12.00	7.1		7.1	63.00	0.0		0.0
13.00	0.8		0.8	64.00	0.0		0.0
14.00	0.5		0.5	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 4P: P04 (Reserved Channel)

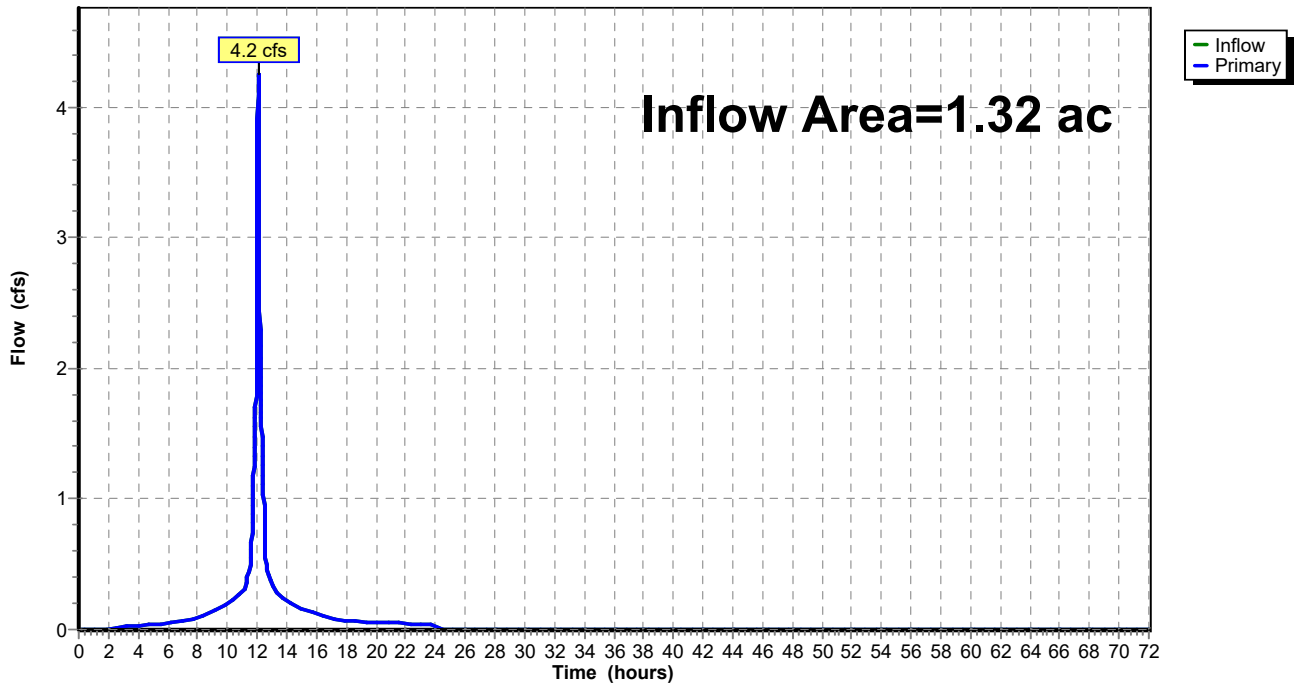
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.32 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 4.2 cfs @ 12.07 hrs, Volume= 0.326 af
Primary = 4.2 cfs @ 12.07 hrs, Volume= 0.326 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 4P: P04 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 4P: P04 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.0		0.0	55.00	0.0		0.0
5.00	0.0		0.0	56.00	0.0		0.0
6.00	0.0		0.0	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.1		0.1	59.00	0.0		0.0
9.00	0.1		0.1	60.00	0.0		0.0
10.00	0.2		0.2	61.00	0.0		0.0
11.00	0.3		0.3	62.00	0.0		0.0
12.00	2.9		2.9	63.00	0.0		0.0
13.00	0.3		0.3	64.00	0.0		0.0
14.00	0.2		0.2	65.00	0.0		0.0
15.00	0.2		0.2	66.00	0.0		0.0
16.00	0.1		0.1	67.00	0.0		0.0
17.00	0.1		0.1	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.0		0.0				
23.00	0.0		0.0				
24.00	0.0		0.0				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 5P: P05 (Reserved Channel)

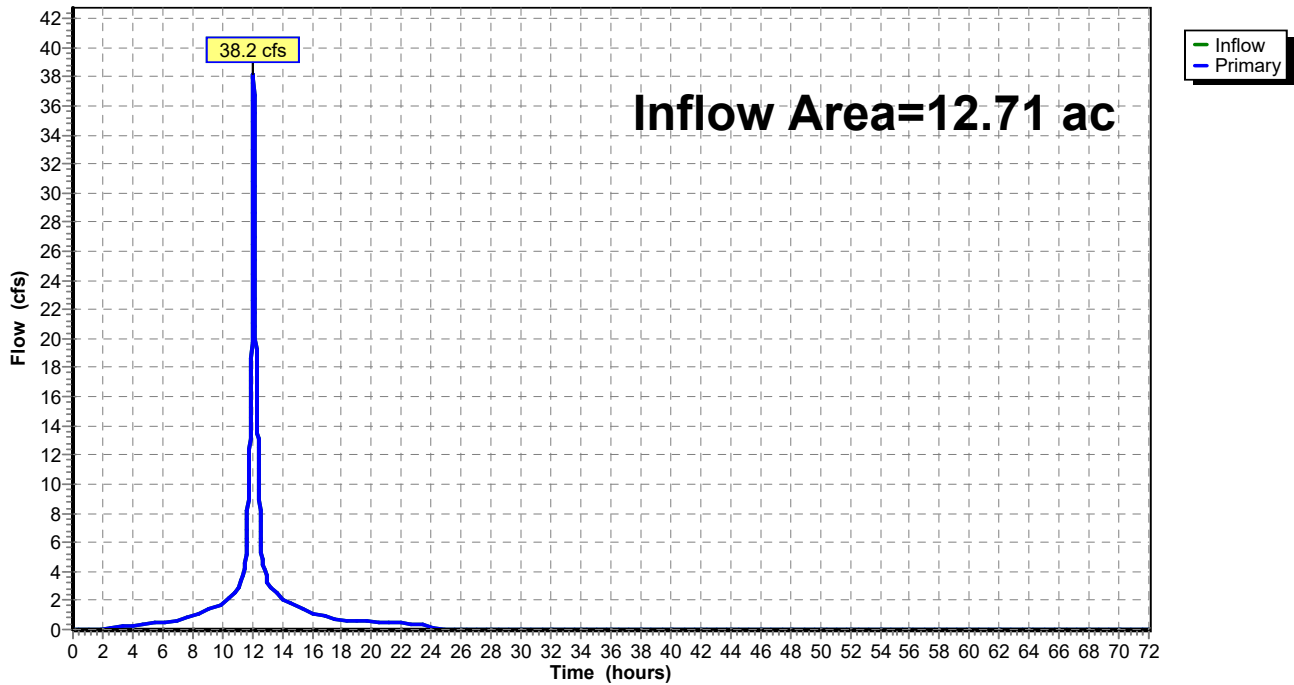
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.71 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 38.2 cfs @ 12.10 hrs, Volume= 3.143 af
Primary = 38.2 cfs @ 12.10 hrs, Volume= 3.143 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 5P: P05 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 5P: P05 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.4		0.4	56.00	0.0		0.0
6.00	0.5		0.5	57.00	0.0		0.0
7.00	0.7		0.7	58.00	0.0		0.0
8.00	0.9		0.9	59.00	0.0		0.0
9.00	1.3		1.3	60.00	0.0		0.0
10.00	1.8		1.8	61.00	0.0		0.0
11.00	2.8		2.8	62.00	0.0		0.0
12.00	22.6		22.6	63.00	0.0		0.0
13.00	3.4		3.4	64.00	0.0		0.0
14.00	2.1		2.1	65.00	0.0		0.0
15.00	1.6		1.6	66.00	0.0		0.0
16.00	1.1		1.1	67.00	0.0		0.0
17.00	0.9		0.9	68.00	0.0		0.0
18.00	0.7		0.7	69.00	0.0		0.0
19.00	0.6		0.6	70.00	0.0		0.0
20.00	0.5		0.5	71.00	0.0		0.0
21.00	0.5		0.5	72.00	0.0		0.0
22.00	0.4		0.4				
23.00	0.4		0.4				
24.00	0.4		0.4				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 6P: P06 (Reserved Channel)

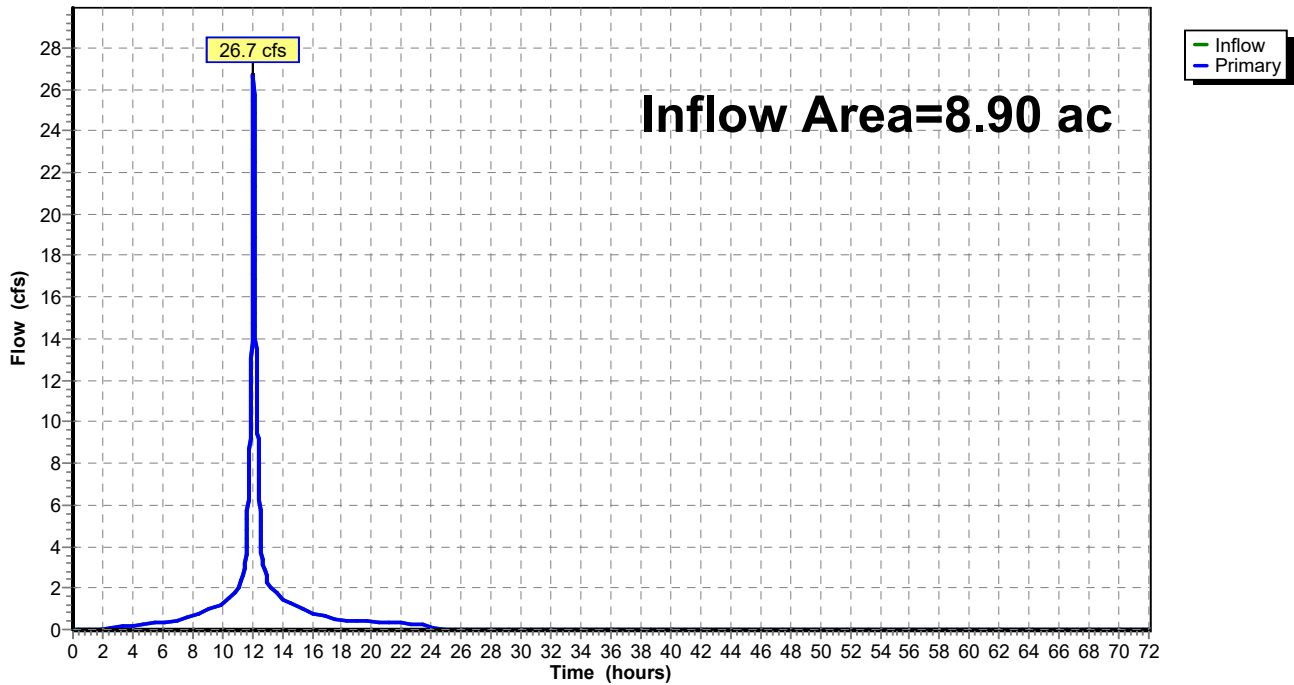
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 8.90 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 26.7 cfs @ 12.10 hrs, Volume= 2.201 af
Primary = 26.7 cfs @ 12.10 hrs, Volume= 2.201 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 6P: P06 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 6P: P06 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.5		0.5	58.00	0.0		0.0
8.00	0.6		0.6	59.00	0.0		0.0
9.00	0.9		0.9	60.00	0.0		0.0
10.00	1.3		1.3	61.00	0.0		0.0
11.00	1.9		1.9	62.00	0.0		0.0
12.00	15.8		15.8	63.00	0.0		0.0
13.00	2.4		2.4	64.00	0.0		0.0
14.00	1.5		1.5	65.00	0.0		0.0
15.00	1.1		1.1	66.00	0.0		0.0
16.00	0.8		0.8	67.00	0.0		0.0
17.00	0.6		0.6	68.00	0.0		0.0
18.00	0.5		0.5	69.00	0.0		0.0
19.00	0.4		0.4	70.00	0.0		0.0
20.00	0.4		0.4	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.3		0.3				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 7P: P07 (Reserved Channel)

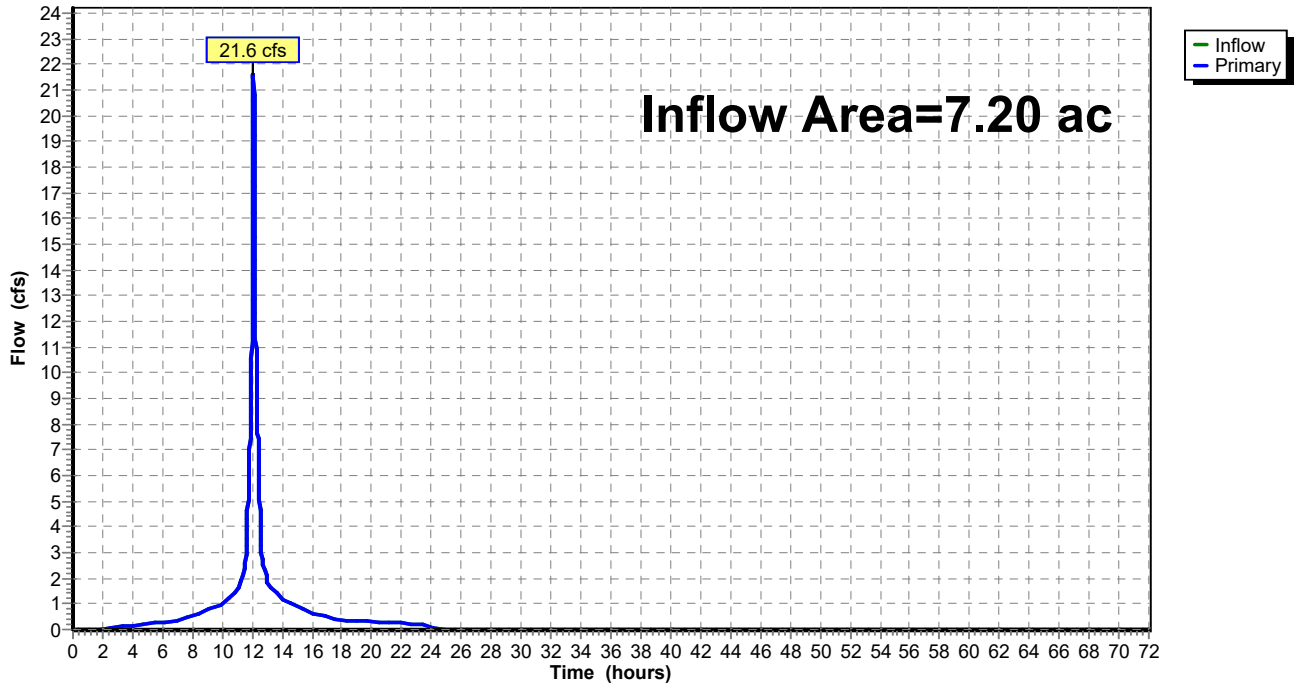
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.20 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 21.6 cfs @ 12.10 hrs, Volume= 1.780 af
Primary = 21.6 cfs @ 12.10 hrs, Volume= 1.780 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 7P: P07 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 7P: P07 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.4		0.4	58.00	0.0		0.0
8.00	0.5		0.5	59.00	0.0		0.0
9.00	0.8		0.8	60.00	0.0		0.0
10.00	1.0		1.0	61.00	0.0		0.0
11.00	1.6		1.6	62.00	0.0		0.0
12.00	12.8		12.8	63.00	0.0		0.0
13.00	1.9		1.9	64.00	0.0		0.0
14.00	1.2		1.2	65.00	0.0		0.0
15.00	0.9		0.9	66.00	0.0		0.0
16.00	0.6		0.6	67.00	0.0		0.0
17.00	0.5		0.5	68.00	0.0		0.0
18.00	0.4		0.4	69.00	0.0		0.0
19.00	0.3		0.3	70.00	0.0		0.0
20.00	0.3		0.3	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 8P: P08 (Reserved Channel)

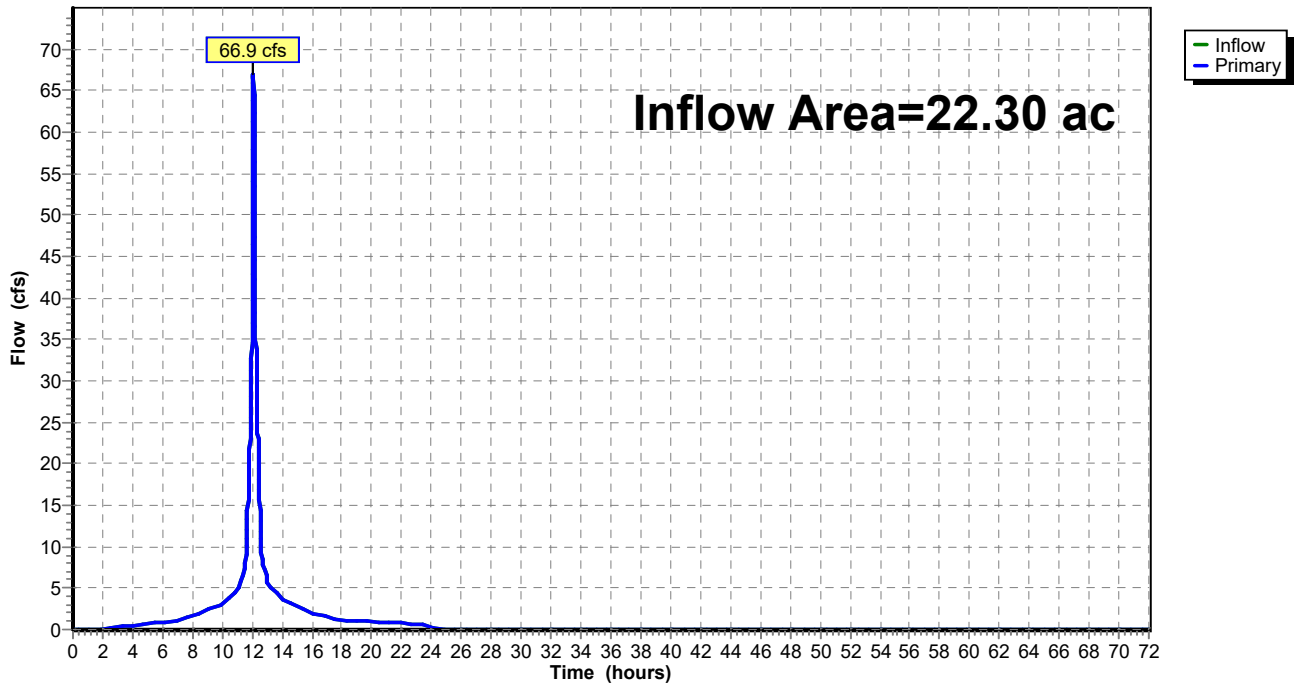
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.30 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 66.9 cfs @ 12.10 hrs, Volume= 5.515 af
Primary = 66.9 cfs @ 12.10 hrs, Volume= 5.515 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 8P: P08 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 8P: P08 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.3		0.3	54.00	0.0		0.0
4.00	0.5		0.5	55.00	0.0		0.0
5.00	0.7		0.7	56.00	0.0		0.0
6.00	0.8		0.8	57.00	0.0		0.0
7.00	1.2		1.2	58.00	0.0		0.0
8.00	1.5		1.5	59.00	0.0		0.0
9.00	2.3		2.3	60.00	0.0		0.0
10.00	3.2		3.2	61.00	0.0		0.0
11.00	4.8		4.8	62.00	0.0		0.0
12.00	39.7		39.7	63.00	0.0		0.0
13.00	5.9		5.9	64.00	0.0		0.0
14.00	3.7		3.7	65.00	0.0		0.0
15.00	2.8		2.8	66.00	0.0		0.0
16.00	2.0		2.0	67.00	0.0		0.0
17.00	1.5		1.5	68.00	0.0		0.0
18.00	1.2		1.2	69.00	0.0		0.0
19.00	1.1		1.1	70.00	0.0		0.0
20.00	0.9		0.9	71.00	0.0		0.0
21.00	0.9		0.9	72.00	0.0		0.0
22.00	0.8		0.8				
23.00	0.7		0.7				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 9P: P09 (Reserved Channel)

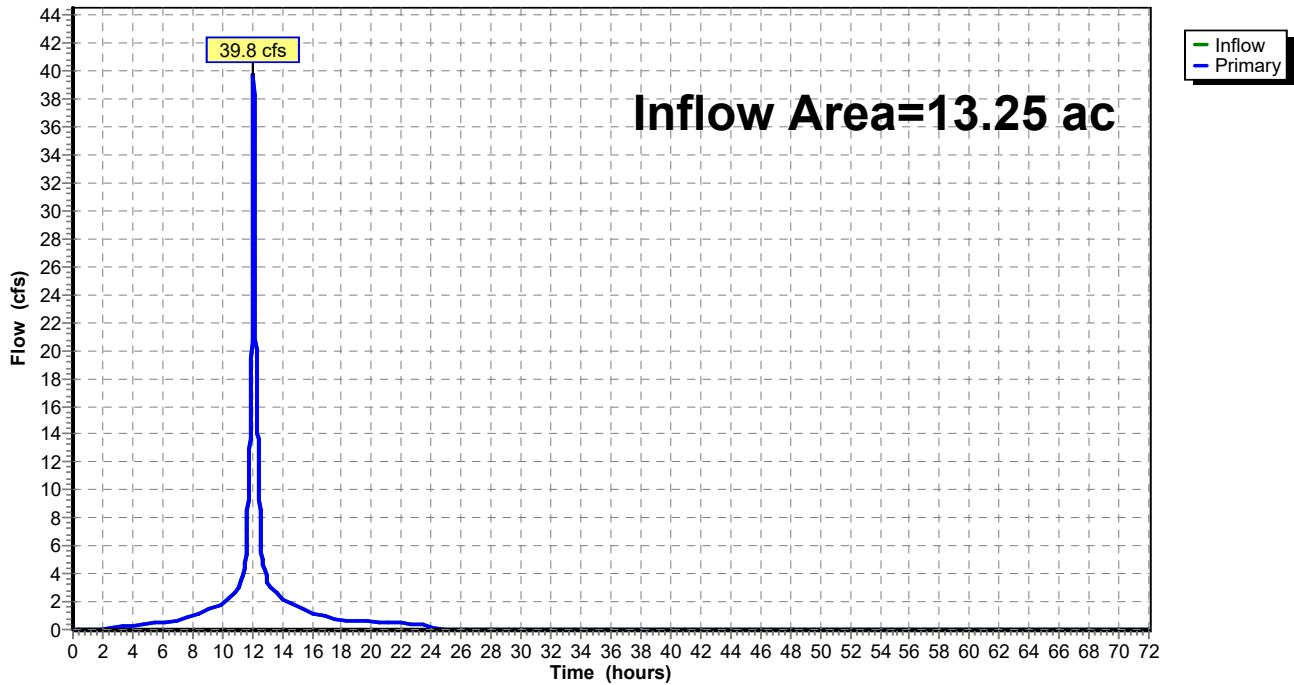
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.25 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 39.8 cfs @ 12.10 hrs, Volume= 3.277 af
Primary = 39.8 cfs @ 12.10 hrs, Volume= 3.277 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 9P: P09 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 9P: P09 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.4		0.4	56.00	0.0		0.0
6.00	0.5		0.5	57.00	0.0		0.0
7.00	0.7		0.7	58.00	0.0		0.0
8.00	0.9		0.9	59.00	0.0		0.0
9.00	1.4		1.4	60.00	0.0		0.0
10.00	1.9		1.9	61.00	0.0		0.0
11.00	2.9		2.9	62.00	0.0		0.0
12.00	23.6		23.6	63.00	0.0		0.0
13.00	3.5		3.5	64.00	0.0		0.0
14.00	2.2		2.2	65.00	0.0		0.0
15.00	1.6		1.6	66.00	0.0		0.0
16.00	1.2		1.2	67.00	0.0		0.0
17.00	0.9		0.9	68.00	0.0		0.0
18.00	0.7		0.7	69.00	0.0		0.0
19.00	0.6		0.6	70.00	0.0		0.0
20.00	0.6		0.6	71.00	0.0		0.0
21.00	0.5		0.5	72.00	0.0		0.0
22.00	0.5		0.5				
23.00	0.4		0.4				
24.00	0.4		0.4				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

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Summary for Pond 10P: P10 (Reserved Channel)

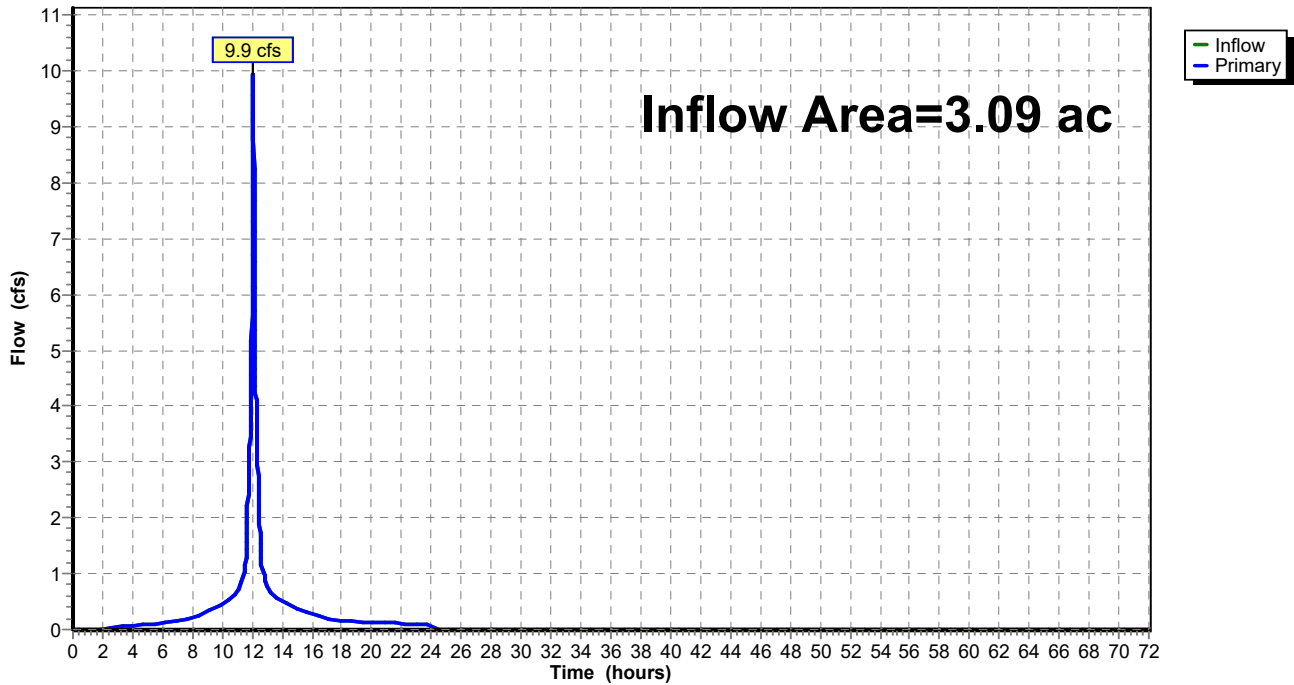
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.09 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 9.9 cfs @ 12.07 hrs, Volume= 0.764 af
Primary = 9.9 cfs @ 12.07 hrs, Volume= 0.764 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 10P: P10 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 10P: P10 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.3		0.3	60.00	0.0		0.0
10.00	0.4		0.4	61.00	0.0		0.0
11.00	0.7		0.7	62.00	0.0		0.0
12.00	6.7		6.7	63.00	0.0		0.0
13.00	0.8		0.8	64.00	0.0		0.0
14.00	0.5		0.5	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 11P: P11 (Reserved Channel)

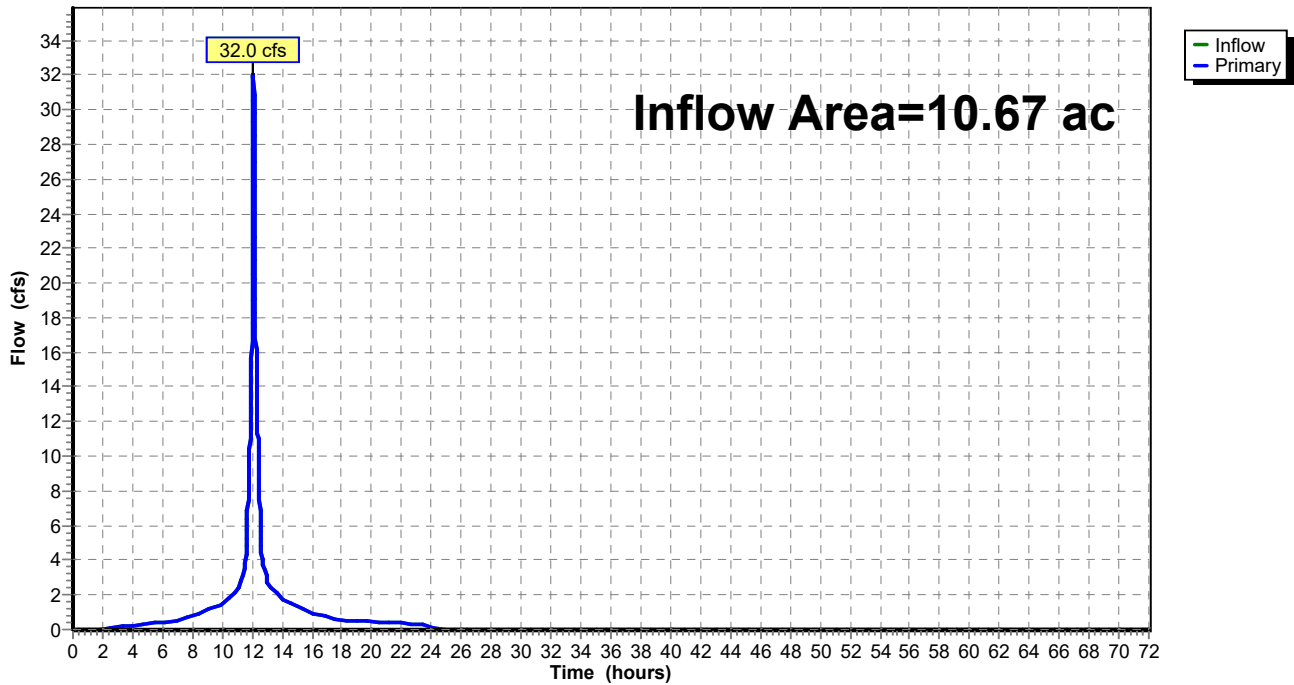
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.67 ac, 100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 32.0 cfs @ 12.10 hrs, Volume= 2.639 af
Primary = 32.0 cfs @ 12.10 hrs, Volume= 2.639 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 11P: P11 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 2-Year Rainfall=3.20"

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Hydrograph for Pond 11P: P11 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.4		0.4	57.00	0.0		0.0
7.00	0.6		0.6	58.00	0.0		0.0
8.00	0.7		0.7	59.00	0.0		0.0
9.00	1.1		1.1	60.00	0.0		0.0
10.00	1.5		1.5	61.00	0.0		0.0
11.00	2.3		2.3	62.00	0.0		0.0
12.00	19.0		19.0	63.00	0.0		0.0
13.00	2.8		2.8	64.00	0.0		0.0
14.00	1.8		1.8	65.00	0.0		0.0
15.00	1.3		1.3	66.00	0.0		0.0
16.00	0.9		0.9	67.00	0.0		0.0
17.00	0.7		0.7	68.00	0.0		0.0
18.00	0.6		0.6	69.00	0.0		0.0
19.00	0.5		0.5	70.00	0.0		0.0
20.00	0.5		0.5	71.00	0.0		0.0
21.00	0.4		0.4	72.00	0.0		0.0
22.00	0.4		0.4				
23.00	0.3		0.3				
24.00	0.3		0.3				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 10-year Rainfall=5.00"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentP01: P01 (Reserved)	Runoff Area=2.32 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=11.8 cfs 0.921 af
SubcatchmentP02: P02 (Reserved)	Runoff Area=2.64 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=13.4 cfs 1.048 af
SubcatchmentP03: P03 (Reserved)	Runoff Area=3.27 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=16.6 cfs 1.298 af
SubcatchmentP04: P04 (Offsite Draining)	Runoff Area=1.32 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=6.7 cfs 0.524 af
SubcatchmentP05: P05 (Reserved)	Runoff Area=12.71 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=60.1 cfs 5.045 af
SubcatchmentP06: P06 (Reserved)	Runoff Area=8.90 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=42.1 cfs 3.533 af
SubcatchmentP07: P07 (Reserved)	Runoff Area=7.20 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=34.0 cfs 2.858 af
SubcatchmentP08: P08 (Reserved)	Runoff Area=22.30 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=105.4 cfs 8.852 af
SubcatchmentP09: P09 (Reserved)	Runoff Area=13.25 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=62.6 cfs 5.259 af
SubcatchmentP10: P10 (Reserved)	Runoff Area=3.09 ac 100.00% Impervious Runoff Depth=4.76" Tc=5.0 min CN=98 Runoff=15.7 cfs 1.227 af
SubcatchmentP11: P11 (Reserved)	Runoff Area=10.67 ac 100.00% Impervious Runoff Depth=4.76" Tc=7.0 min CN=98 Runoff=50.4 cfs 4.235 af
Pond 1P: P01 (Reserved Channel)	Inflow=11.8 cfs 0.921 af Primary=11.8 cfs 0.921 af
Pond 2P: P02 (Reserved Channel)	Inflow=13.4 cfs 1.048 af Primary=13.4 cfs 1.048 af
Pond 3P: P03 (Reserved Channel)	Inflow=16.6 cfs 1.298 af Primary=16.6 cfs 1.298 af
Pond 4P: P04 (Reserved Channel)	Inflow=6.7 cfs 0.524 af Primary=6.7 cfs 0.524 af
Pond 5P: P05 (Reserved Channel)	Inflow=60.1 cfs 5.045 af Primary=60.1 cfs 5.045 af

Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 10-year Rainfall=5.00"

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Pond 6P: P06 (Reserved Channel)

Inflow=42.1 cfs 3.533 af
Primary=42.1 cfs 3.533 af

Pond 7P: P07 (Reserved Channel)

Inflow=34.0 cfs 2.858 af
Primary=34.0 cfs 2.858 af

Pond 8P: P08 (Reserved Channel)

Inflow=105.4 cfs 8.852 af
Primary=105.4 cfs 8.852 af

Pond 9P: P09 (Reserved Channel)

Inflow=62.6 cfs 5.259 af
Primary=62.6 cfs 5.259 af

Pond 10P: P10 (Reserved Channel)

Inflow=15.7 cfs 1.227 af
Primary=15.7 cfs 1.227 af

Pond 11P: P11 (Reserved Channel)

Inflow=50.4 cfs 4.235 af
Primary=50.4 cfs 4.235 af

Total Runoff Area = 87.67 ac Runoff Volume = 34.799 af Average Runoff Depth = 4.76"
0.00% Pervious = 0.00 ac 100.00% Impervious = 87.67 ac

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P01: P01 (Reserved Channel)

Runoff = 11.8 cfs @ 12.07 hrs, Volume= 0.921 af, Depth= 4.76"

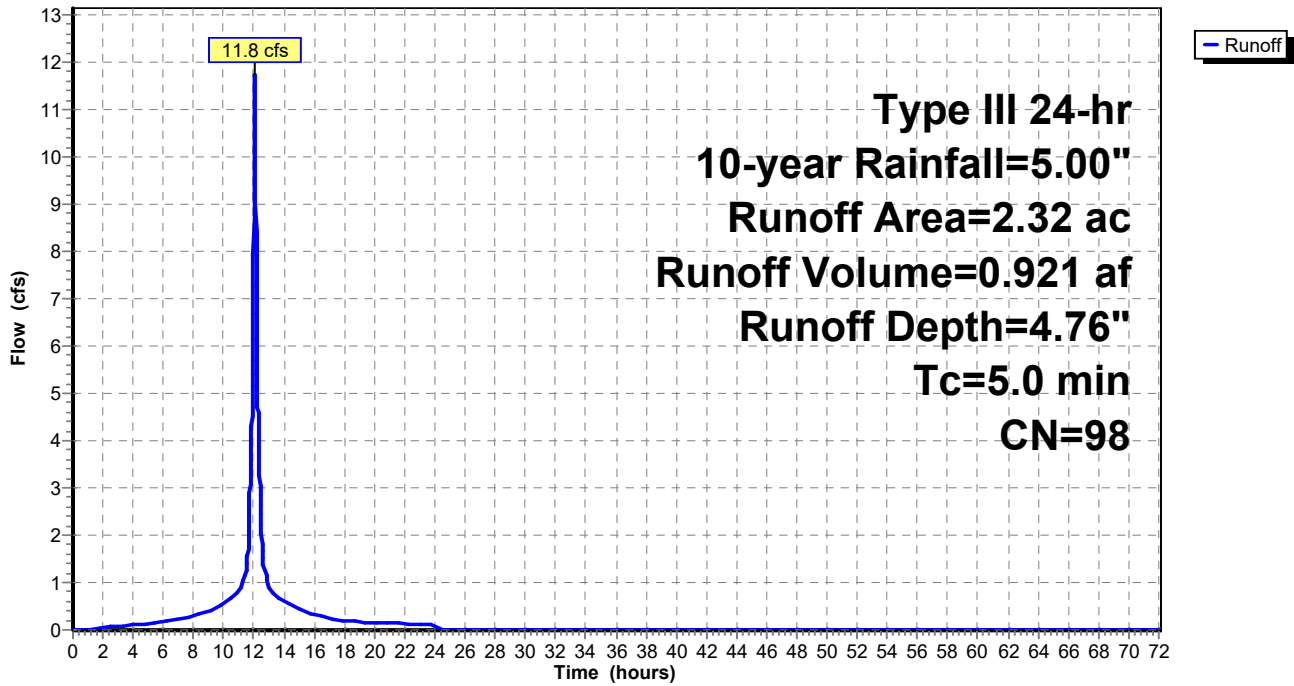
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
2.32	98	Paved parking, HSG B
2.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P01: P01 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P01: P01 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.0	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.1	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.1	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.2	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.2	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.3	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.4	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.5	61.00	5.00	4.76	0.0
11.00	1.25	1.03	0.8	62.00	5.00	4.76	0.0
12.00	2.50	2.27	7.9	63.00	5.00	4.76	0.0
13.00	3.75	3.52	0.9	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.6	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.4	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.3	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.2	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.2	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.2	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.2	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.1	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.1				
23.00	4.95	4.72	0.1				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P02: P02 (Reserved Channel)

Runoff = 13.4 cfs @ 12.07 hrs, Volume= 1.048 af, Depth= 4.76"

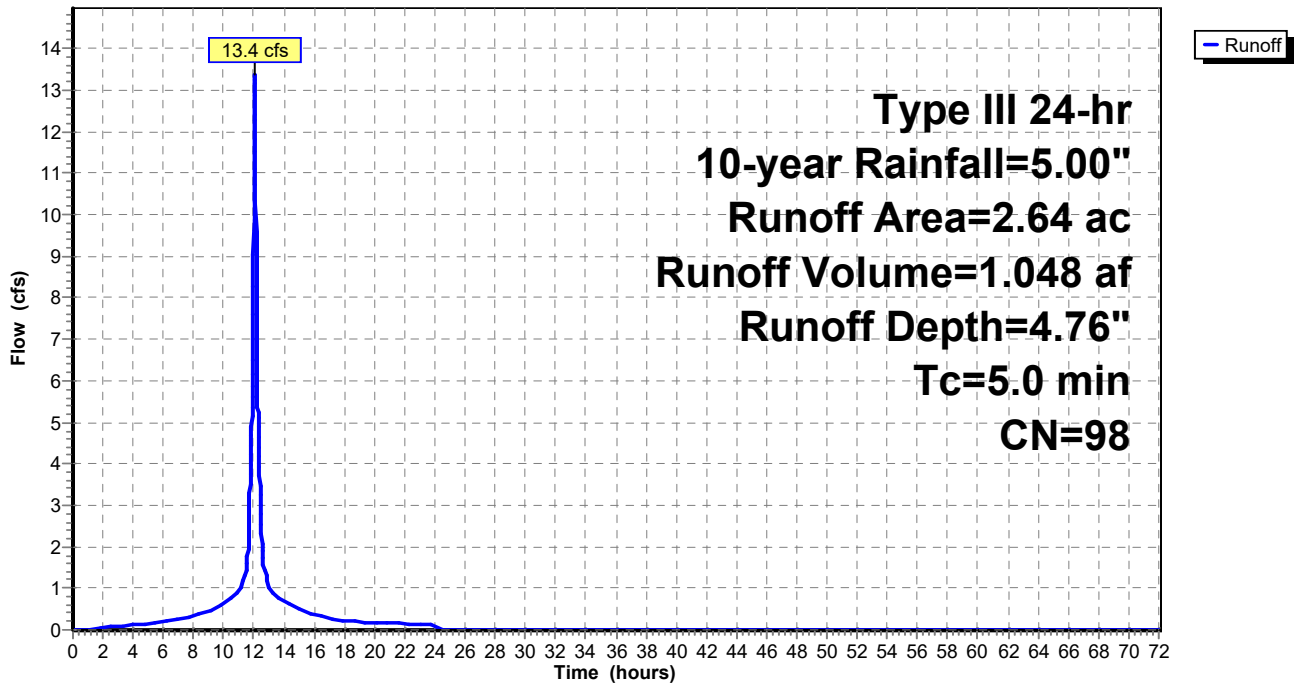
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
2.64	98	Paved parking, HSG B
2.64		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P02: P02 (Reserved Channel)

Hydrograph



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Hydrograph for Subcatchment P02: P02 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.1	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.1	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.2	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.2	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.2	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.3	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.5	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.6	61.00	5.00	4.76	0.0
11.00	1.25	1.03	0.9	62.00	5.00	4.76	0.0
12.00	2.50	2.27	9.0	63.00	5.00	4.76	0.0
13.00	3.75	3.52	1.1	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.7	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.5	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.4	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.3	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.2	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.2	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.2	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.2	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.1				
23.00	4.95	4.72	0.1				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P03: P03 (Reserved Channel)

Runoff = 16.6 cfs @ 12.07 hrs, Volume= 1.298 af, Depth= 4.76"

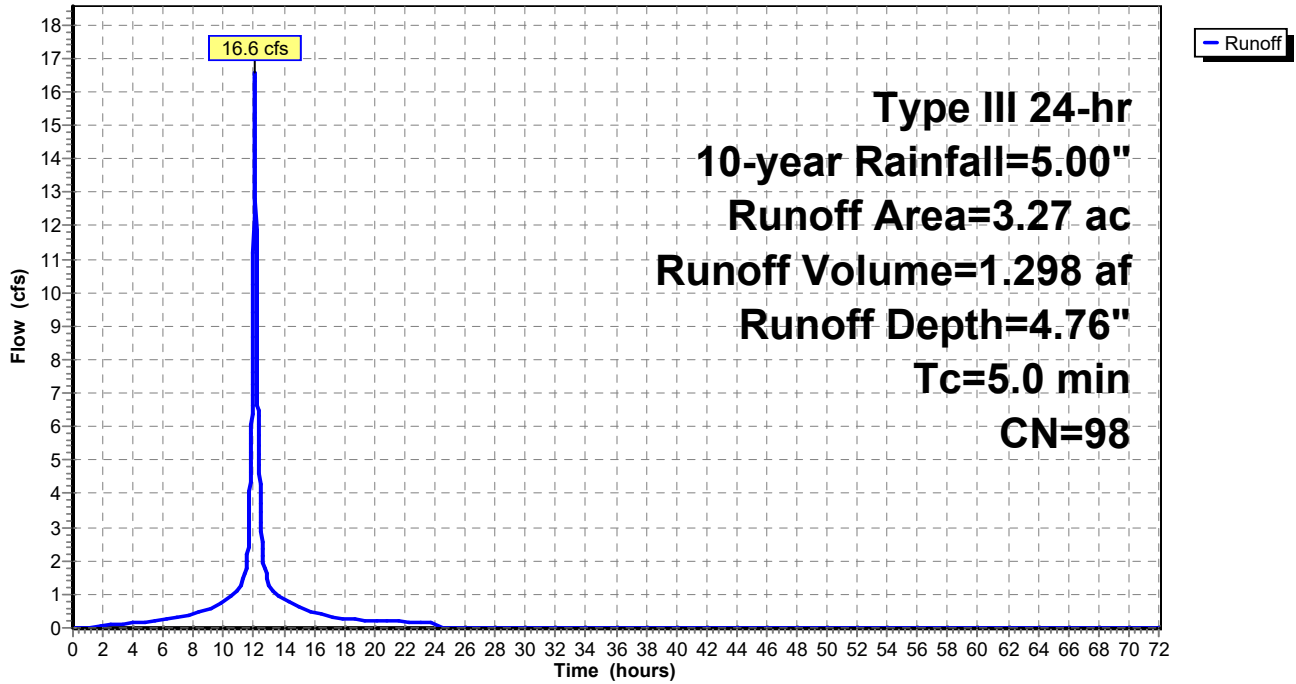
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
3.27	98	Paved parking, HSG B
3.27		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P03: P03 (Reserved Channel)

Hydrograph



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Hydrograph for Subcatchment P03: P03 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.1	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.1	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.2	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.2	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.3	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.4	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.6	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.8	61.00	5.00	4.76	0.0
11.00	1.25	1.03	1.1	62.00	5.00	4.76	0.0
12.00	2.50	2.27	11.2	63.00	5.00	4.76	0.0
13.00	3.75	3.52	1.3	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.8	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.6	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.4	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.4	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.3	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.2	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.2	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.2	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.2				
23.00	4.95	4.72	0.2				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P04: P04 (Offsite Draining)

Runoff = 6.7 cfs @ 12.07 hrs, Volume= 0.524 af, Depth= 4.76"

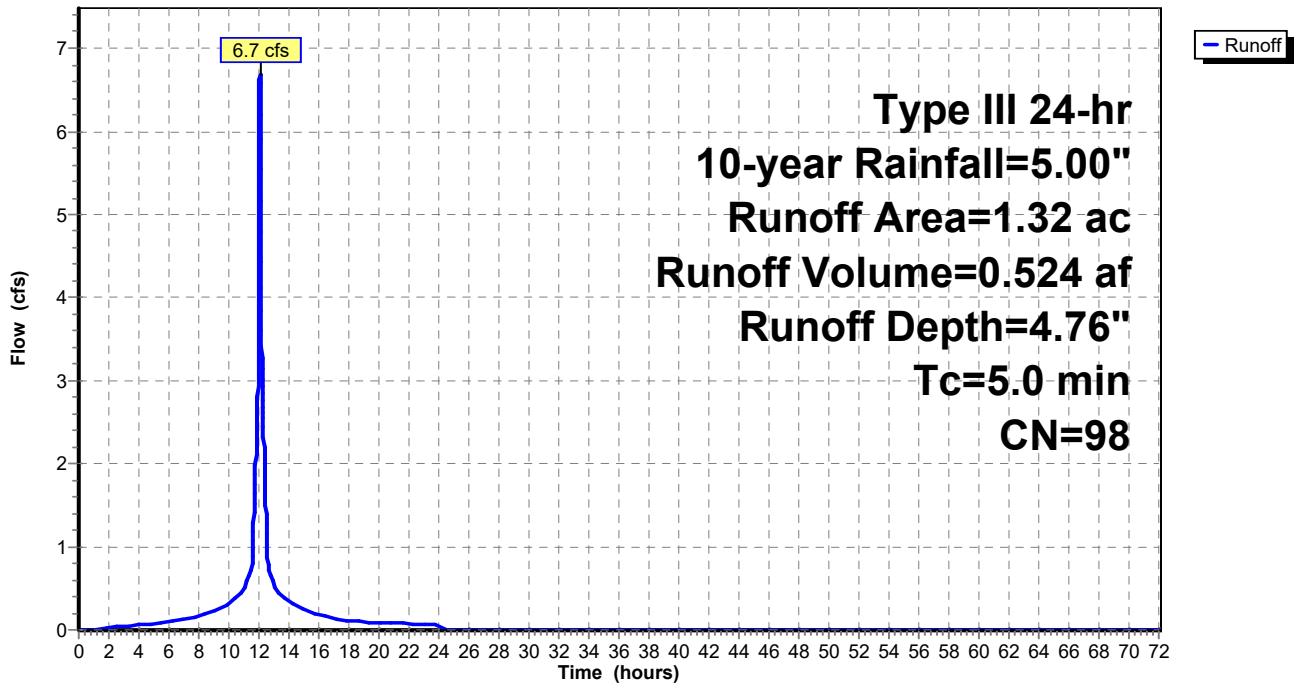
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
1.32	98	Paved parking, HSG B
1.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P04: P04 (Offsite Draining)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P04: P04 (Offsite Draining)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.0	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.0	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.1	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.1	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.1	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.2	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.2	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.3	61.00	5.00	4.76	0.0
11.00	1.25	1.03	0.5	62.00	5.00	4.76	0.0
12.00	2.50	2.27	4.5	63.00	5.00	4.76	0.0
13.00	3.75	3.52	0.5	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.3	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.3	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.2	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.1	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.1	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.1	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.1	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.1	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.1				
23.00	4.95	4.72	0.1				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment P05: P05 (Reserved Channel)

Runoff = 60.1 cfs @ 12.10 hrs, Volume= 5.045 af, Depth= 4.76"

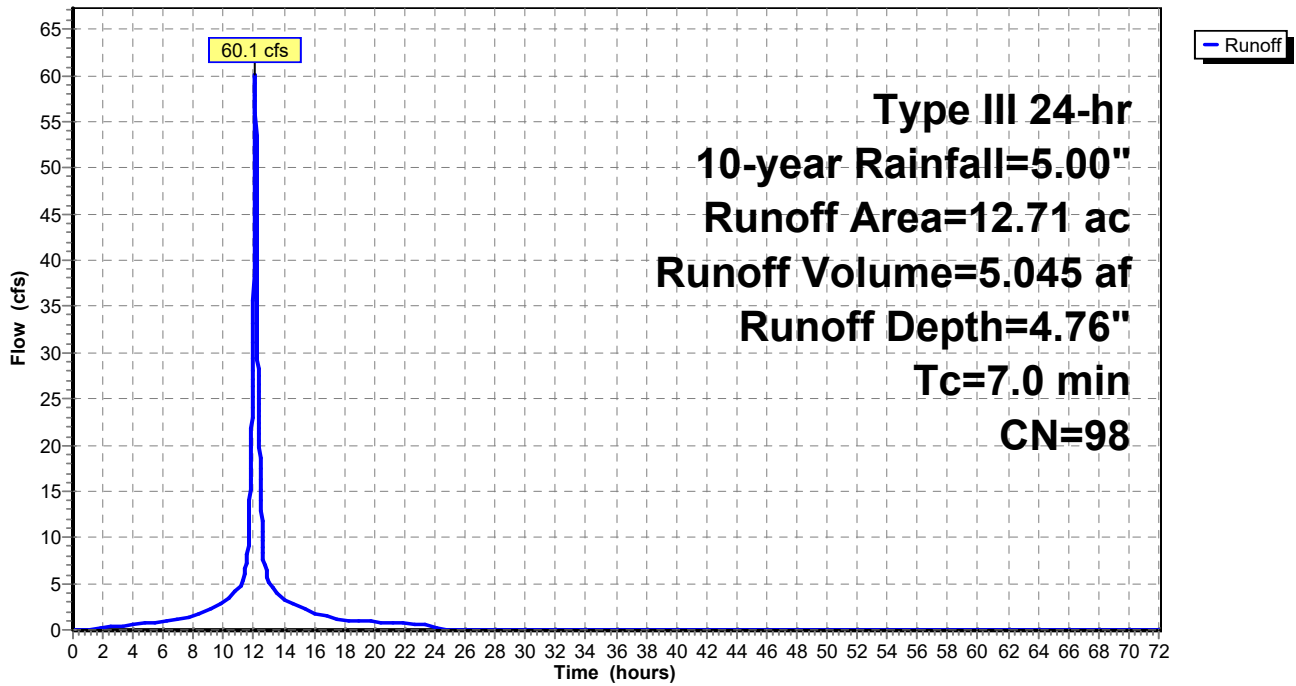
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
12.71	98	Paved parking, HSG B
12.71		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P05: P05 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P05: P05 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.4	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.6	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.7	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.9	57.00	5.00	4.76	0.0
7.00	0.45	0.28	1.2	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.5	59.00	5.00	4.76	0.0
9.00	0.73	0.53	2.2	60.00	5.00	4.76	0.0
10.00	0.95	0.74	3.0	61.00	5.00	4.76	0.0
11.00	1.25	1.03	4.4	62.00	5.00	4.76	0.0
12.00	2.50	2.27	35.7	63.00	5.00	4.76	0.0
13.00	3.75	3.52	5.3	64.00	5.00	4.76	0.0
14.00	4.06	3.82	3.3	65.00	5.00	4.76	0.0
15.00	4.27	4.04	2.5	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.7	67.00	5.00	4.76	0.0
17.00	4.55	4.31	1.4	68.00	5.00	4.76	0.0
18.00	4.64	4.40	1.1	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.9	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.8	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.8	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.7				
23.00	4.95	4.72	0.6				
24.00	5.00	4.76	0.6				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

Prepared by HDR, Inc

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Summary for Subcatchment P06: P06 (Reserved Channel)

Runoff = 42.1 cfs @ 12.10 hrs, Volume= 3.533 af, Depth= 4.76"

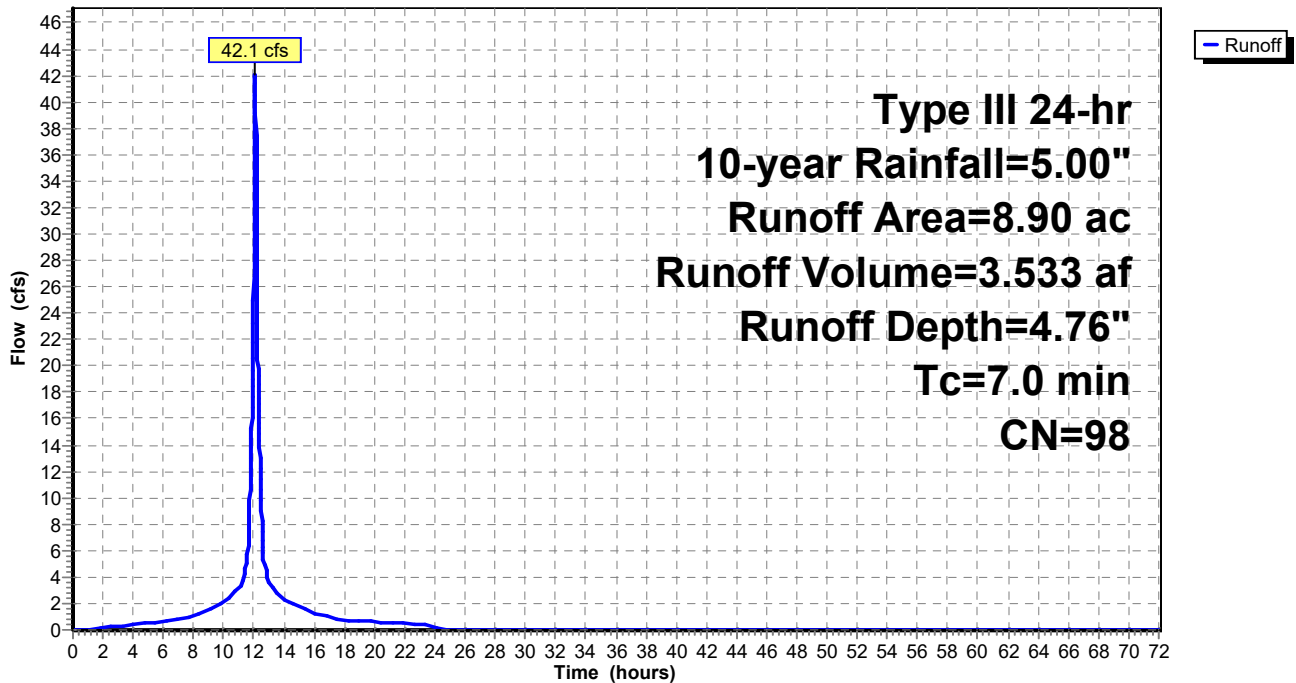
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
8.90	98	Paved parking, HSG B
8.90		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P06: P06 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P06: P06 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.3	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.4	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.5	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.6	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.8	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.1	59.00	5.00	4.76	0.0
9.00	0.73	0.53	1.5	60.00	5.00	4.76	0.0
10.00	0.95	0.74	2.1	61.00	5.00	4.76	0.0
11.00	1.25	1.03	3.1	62.00	5.00	4.76	0.0
12.00	2.50	2.27	25.0	63.00	5.00	4.76	0.0
13.00	3.75	3.52	3.7	64.00	5.00	4.76	0.0
14.00	4.06	3.82	2.3	65.00	5.00	4.76	0.0
15.00	4.27	4.04	1.7	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.2	67.00	5.00	4.76	0.0
17.00	4.55	4.31	1.0	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.7	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.7	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.6	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.5	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.5				
23.00	4.95	4.72	0.4				
24.00	5.00	4.76	0.4				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P07: P07 (Reserved Channel)

Runoff = 34.0 cfs @ 12.10 hrs, Volume= 2.858 af, Depth= 4.76"

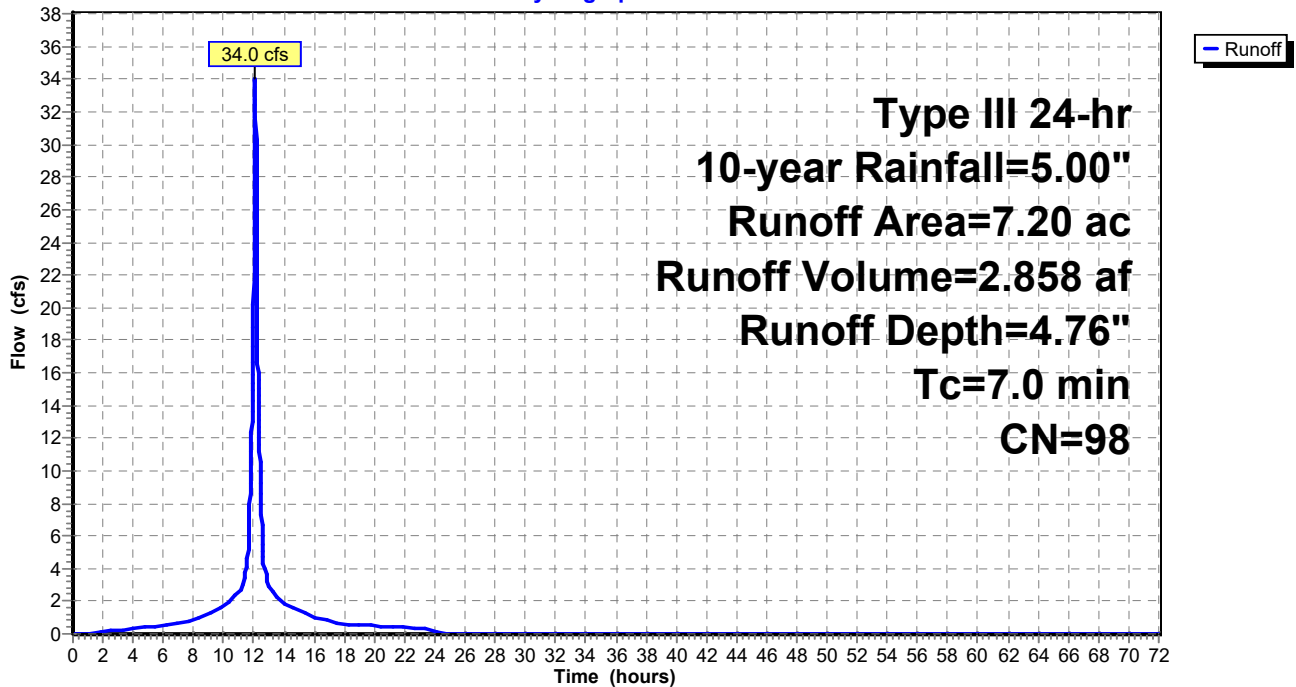
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
7.20	98	Paved parking, HSG B
7.20		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P07: P07 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P07: P07 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.1	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.2	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.3	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.4	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.5	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.7	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.8	59.00	5.00	4.76	0.0
9.00	0.73	0.53	1.2	60.00	5.00	4.76	0.0
10.00	0.95	0.74	1.7	61.00	5.00	4.76	0.0
11.00	1.25	1.03	2.5	62.00	5.00	4.76	0.0
12.00	2.50	2.27	20.2	63.00	5.00	4.76	0.0
13.00	3.75	3.52	3.0	64.00	5.00	4.76	0.0
14.00	4.06	3.82	1.9	65.00	5.00	4.76	0.0
15.00	4.27	4.04	1.4	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.0	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.8	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.6	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.5	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.5	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.4	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.4				
23.00	4.95	4.72	0.4				
24.00	5.00	4.76	0.3				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P08: P08 (Reserved Channel)

Runoff = 105.4 cfs @ 12.10 hrs, Volume= 8.852 af, Depth= 4.76"

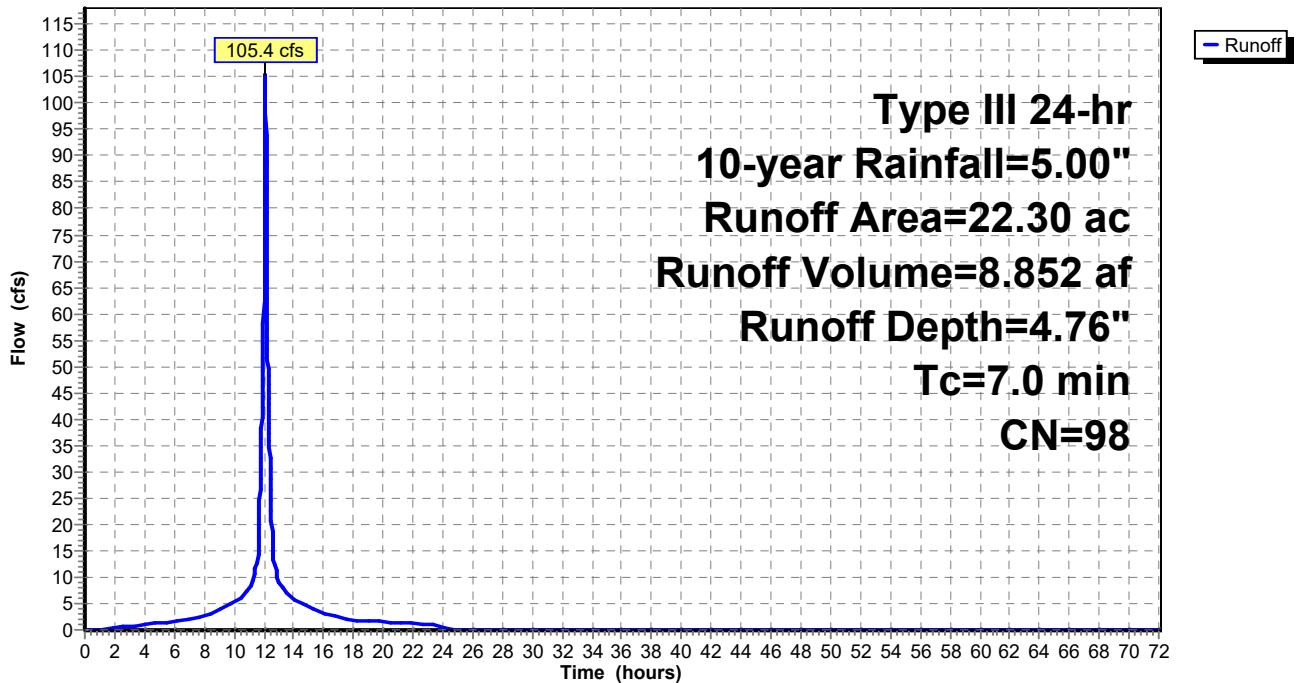
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
22.30	98	Paved parking, HSG B
22.30		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P08: P08 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P08: P08 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.4	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.7	54.00	5.00	4.76	0.0
4.00	0.22	0.08	1.0	55.00	5.00	4.76	0.0
5.00	0.28	0.13	1.3	56.00	5.00	4.76	0.0
6.00	0.36	0.19	1.5	57.00	5.00	4.76	0.0
7.00	0.45	0.28	2.0	58.00	5.00	4.76	0.0
8.00	0.57	0.38	2.6	59.00	5.00	4.76	0.0
9.00	0.73	0.53	3.9	60.00	5.00	4.76	0.0
10.00	0.95	0.74	5.2	61.00	5.00	4.76	0.0
11.00	1.25	1.03	7.7	62.00	5.00	4.76	0.0
12.00	2.50	2.27	62.7	63.00	5.00	4.76	0.0
13.00	3.75	3.52	9.3	64.00	5.00	4.76	0.0
14.00	4.06	3.82	5.8	65.00	5.00	4.76	0.0
15.00	4.27	4.04	4.3	66.00	5.00	4.76	0.0
16.00	4.43	4.19	3.1	67.00	5.00	4.76	0.0
17.00	4.55	4.31	2.4	68.00	5.00	4.76	0.0
18.00	4.64	4.40	1.9	69.00	5.00	4.76	0.0
19.00	4.72	4.48	1.6	70.00	5.00	4.76	0.0
20.00	4.79	4.55	1.5	71.00	5.00	4.76	0.0
21.00	4.85	4.61	1.3	72.00	5.00	4.76	0.0
22.00	4.90	4.67	1.2				
23.00	4.95	4.72	1.1				
24.00	5.00	4.76	1.0				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P09: P09 (Reserved Channel)

Runoff = 62.6 cfs @ 12.10 hrs, Volume= 5.259 af, Depth= 4.76"

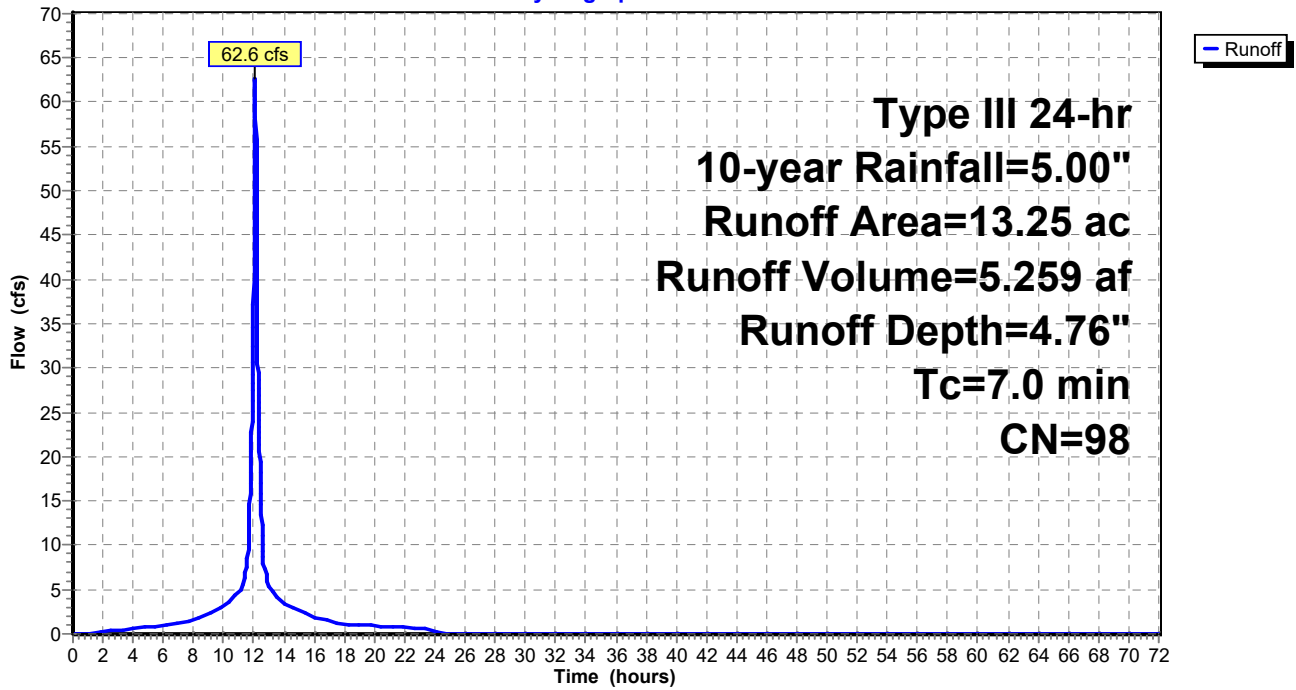
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
13.25	98	Paved parking, HSG B
13.25		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P09: P09 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P09: P09 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.4	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.6	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.8	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.9	57.00	5.00	4.76	0.0
7.00	0.45	0.28	1.2	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.6	59.00	5.00	4.76	0.0
9.00	0.73	0.53	2.3	60.00	5.00	4.76	0.0
10.00	0.95	0.74	3.1	61.00	5.00	4.76	0.0
11.00	1.25	1.03	4.6	62.00	5.00	4.76	0.0
12.00	2.50	2.27	37.3	63.00	5.00	4.76	0.0
13.00	3.75	3.52	5.5	64.00	5.00	4.76	0.0
14.00	4.06	3.82	3.4	65.00	5.00	4.76	0.0
15.00	4.27	4.04	2.6	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.8	67.00	5.00	4.76	0.0
17.00	4.55	4.31	1.4	68.00	5.00	4.76	0.0
18.00	4.64	4.40	1.1	69.00	5.00	4.76	0.0
19.00	4.72	4.48	1.0	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.9	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.8	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.7				
23.00	4.95	4.72	0.7				
24.00	5.00	4.76	0.6				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P10: P10 (Reserved Channel)

Runoff = 15.7 cfs @ 12.07 hrs, Volume= 1.227 af, Depth= 4.76"

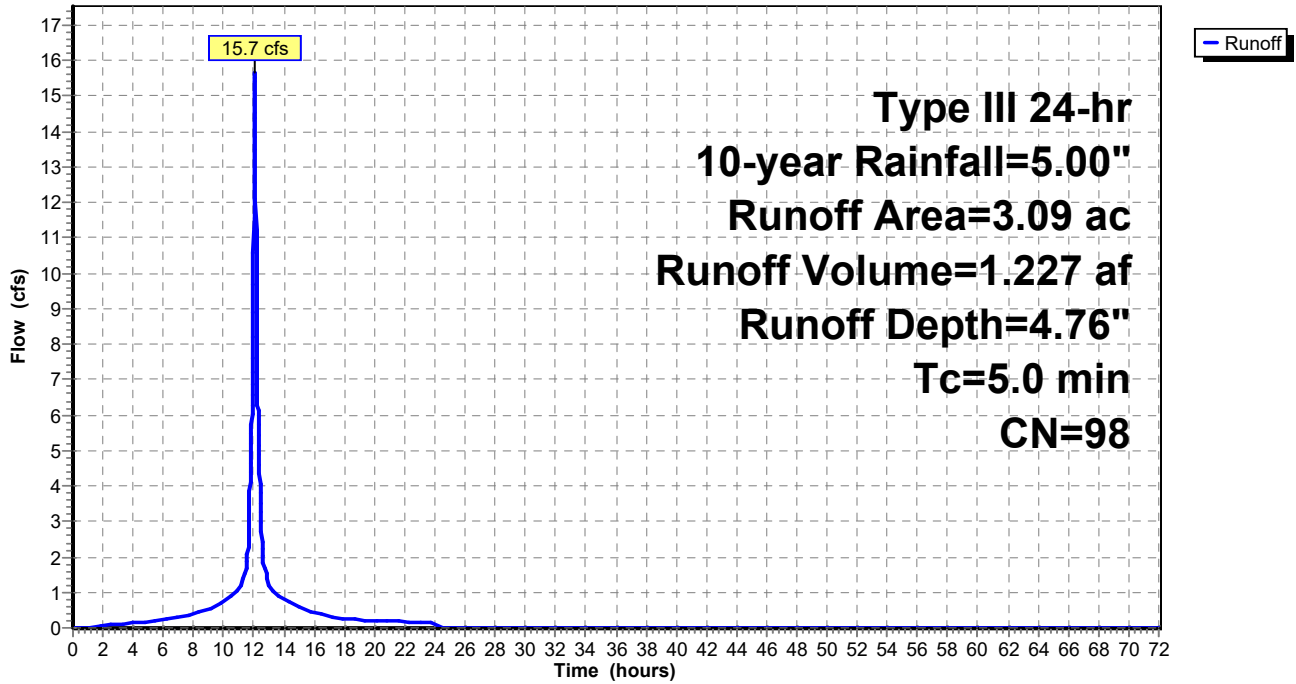
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
3.09	98	Paved parking, HSG B
3.09		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P10: P10 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P10: P10 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.1	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.1	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.1	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.2	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.2	57.00	5.00	4.76	0.0
7.00	0.45	0.28	0.3	58.00	5.00	4.76	0.0
8.00	0.57	0.38	0.4	59.00	5.00	4.76	0.0
9.00	0.73	0.53	0.5	60.00	5.00	4.76	0.0
10.00	0.95	0.74	0.7	61.00	5.00	4.76	0.0
11.00	1.25	1.03	1.1	62.00	5.00	4.76	0.0
12.00	2.50	2.27	10.6	63.00	5.00	4.76	0.0
13.00	3.75	3.52	1.2	64.00	5.00	4.76	0.0
14.00	4.06	3.82	0.8	65.00	5.00	4.76	0.0
15.00	4.27	4.04	0.6	66.00	5.00	4.76	0.0
16.00	4.43	4.19	0.4	67.00	5.00	4.76	0.0
17.00	4.55	4.31	0.3	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.3	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.2	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.2	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.2	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.2				
23.00	4.95	4.72	0.2				
24.00	5.00	4.76	0.1				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P11: P11 (Reserved Channel)

Runoff = 50.4 cfs @ 12.10 hrs, Volume= 4.235 af, Depth= 4.76"

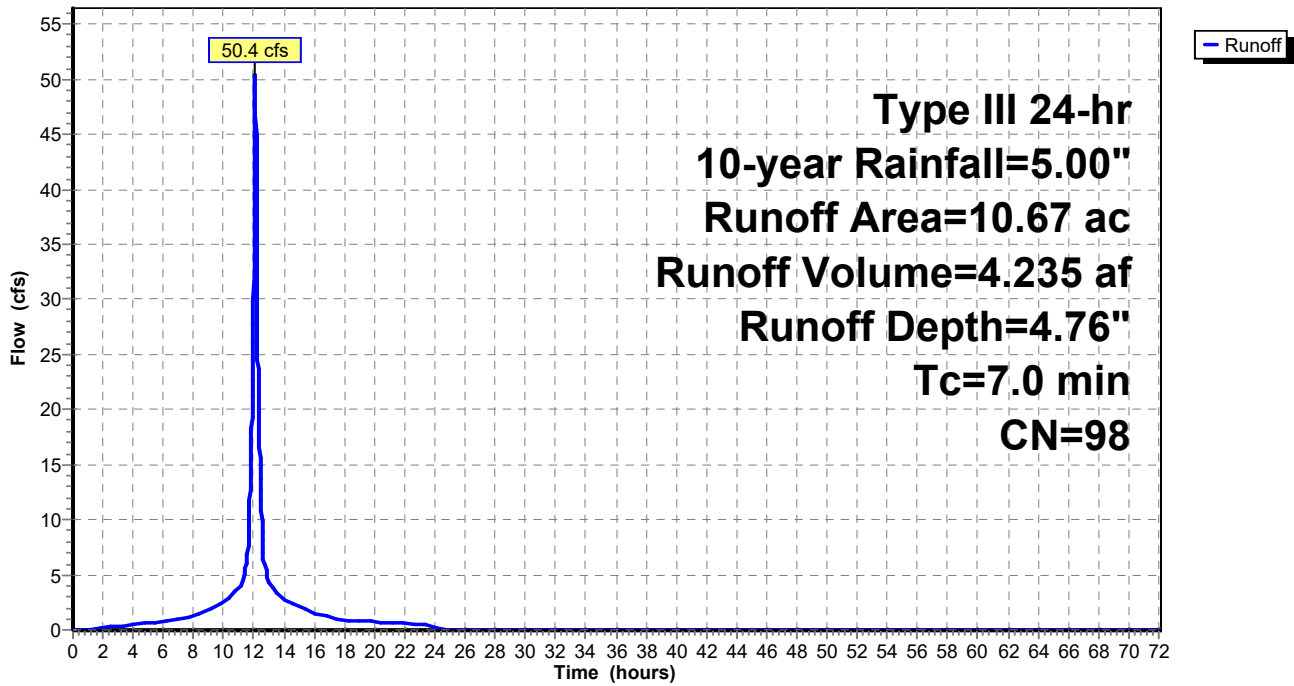
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=5.00"

Area (ac)	CN	Description
10.67	98	Paved parking, HSG B
10.67		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P11: P11 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 10-year Rainfall=5.00"

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Hydrograph for Subcatchment P11: P11 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	5.00	4.76	0.0
1.00	0.05	0.00	0.0	52.00	5.00	4.76	0.0
2.00	0.10	0.01	0.2	53.00	5.00	4.76	0.0
3.00	0.15	0.04	0.3	54.00	5.00	4.76	0.0
4.00	0.22	0.08	0.5	55.00	5.00	4.76	0.0
5.00	0.28	0.13	0.6	56.00	5.00	4.76	0.0
6.00	0.36	0.19	0.7	57.00	5.00	4.76	0.0
7.00	0.45	0.28	1.0	58.00	5.00	4.76	0.0
8.00	0.57	0.38	1.3	59.00	5.00	4.76	0.0
9.00	0.73	0.53	1.8	60.00	5.00	4.76	0.0
10.00	0.95	0.74	2.5	61.00	5.00	4.76	0.0
11.00	1.25	1.03	3.7	62.00	5.00	4.76	0.0
12.00	2.50	2.27	30.0	63.00	5.00	4.76	0.0
13.00	3.75	3.52	4.5	64.00	5.00	4.76	0.0
14.00	4.06	3.82	2.8	65.00	5.00	4.76	0.0
15.00	4.27	4.04	2.1	66.00	5.00	4.76	0.0
16.00	4.43	4.19	1.5	67.00	5.00	4.76	0.0
17.00	4.55	4.31	1.2	68.00	5.00	4.76	0.0
18.00	4.64	4.40	0.9	69.00	5.00	4.76	0.0
19.00	4.72	4.48	0.8	70.00	5.00	4.76	0.0
20.00	4.79	4.55	0.7	71.00	5.00	4.76	0.0
21.00	4.85	4.61	0.6	72.00	5.00	4.76	0.0
22.00	4.90	4.67	0.6				
23.00	4.95	4.72	0.5				
24.00	5.00	4.76	0.5				
25.00	5.00	4.76	0.0				
26.00	5.00	4.76	0.0				
27.00	5.00	4.76	0.0				
28.00	5.00	4.76	0.0				
29.00	5.00	4.76	0.0				
30.00	5.00	4.76	0.0				
31.00	5.00	4.76	0.0				
32.00	5.00	4.76	0.0				
33.00	5.00	4.76	0.0				
34.00	5.00	4.76	0.0				
35.00	5.00	4.76	0.0				
36.00	5.00	4.76	0.0				
37.00	5.00	4.76	0.0				
38.00	5.00	4.76	0.0				
39.00	5.00	4.76	0.0				
40.00	5.00	4.76	0.0				
41.00	5.00	4.76	0.0				
42.00	5.00	4.76	0.0				
43.00	5.00	4.76	0.0				
44.00	5.00	4.76	0.0				
45.00	5.00	4.76	0.0				
46.00	5.00	4.76	0.0				
47.00	5.00	4.76	0.0				
48.00	5.00	4.76	0.0				
49.00	5.00	4.76	0.0				
50.00	5.00	4.76	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 1P: P01 (Reserved Channel)

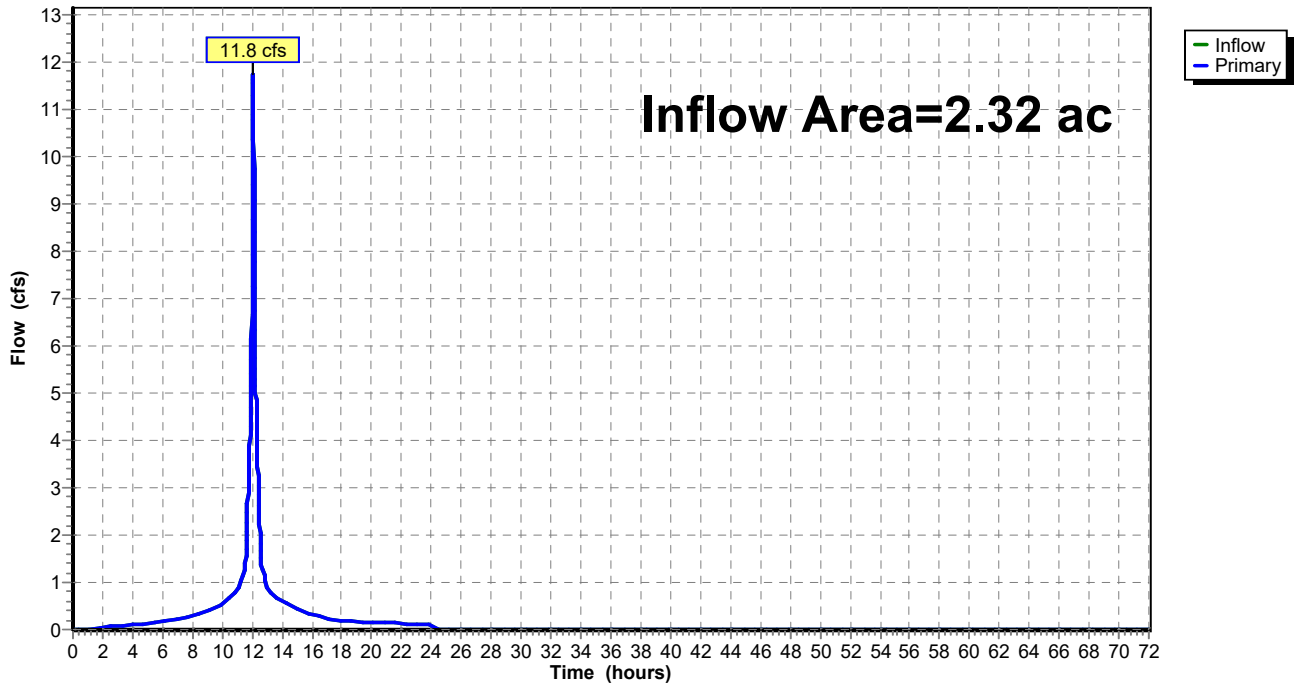
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.32 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 11.8 cfs @ 12.07 hrs, Volume= 0.921 af
Primary = 11.8 cfs @ 12.07 hrs, Volume= 0.921 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 1P: P01 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 1P: P01 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.3		0.3	59.00	0.0		0.0
9.00	0.4		0.4	60.00	0.0		0.0
10.00	0.5		0.5	61.00	0.0		0.0
11.00	0.8		0.8	62.00	0.0		0.0
12.00	7.9		7.9	63.00	0.0		0.0
13.00	0.9		0.9	64.00	0.0		0.0
14.00	0.6		0.6	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 2P: P02 (Reserved Channel)

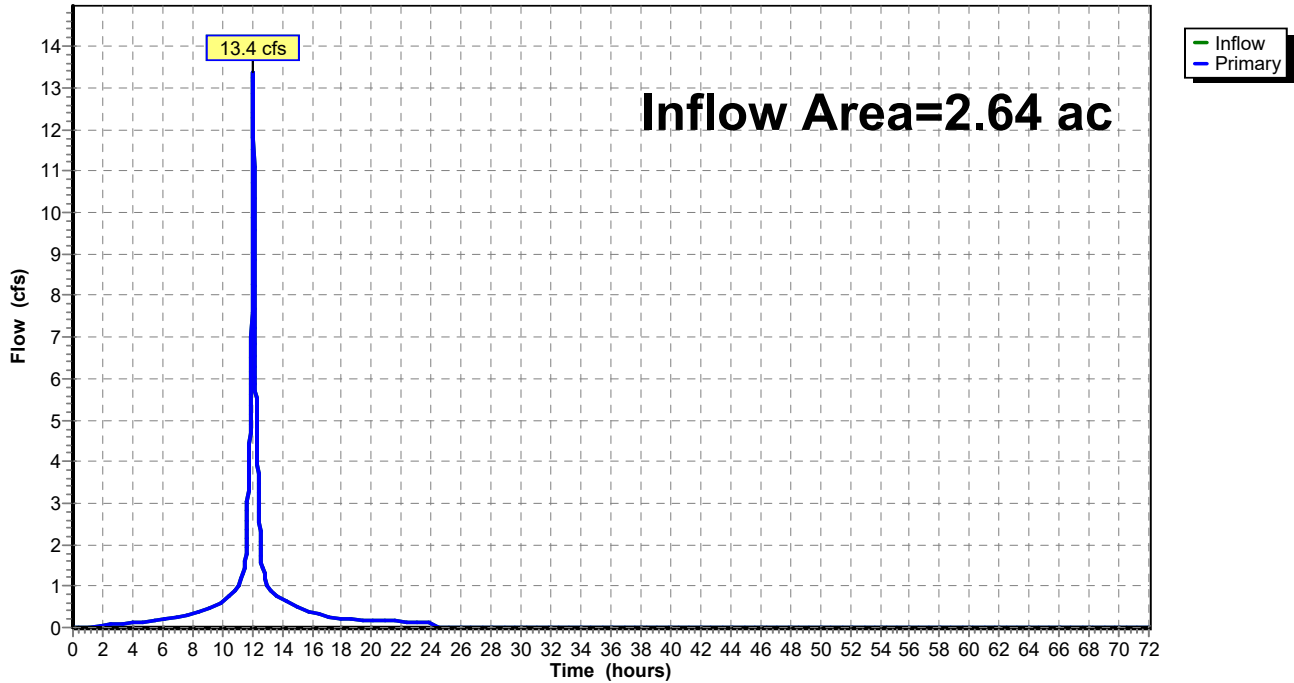
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.64 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 13.4 cfs @ 12.07 hrs, Volume= 1.048 af
Primary = 13.4 cfs @ 12.07 hrs, Volume= 1.048 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 2P: P02 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 10-year Rainfall=5.00"

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Hydrograph for Pond 2P: P02 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.3		0.3	59.00	0.0		0.0
9.00	0.5		0.5	60.00	0.0		0.0
10.00	0.6		0.6	61.00	0.0		0.0
11.00	0.9		0.9	62.00	0.0		0.0
12.00	9.0		9.0	63.00	0.0		0.0
13.00	1.1		1.1	64.00	0.0		0.0
14.00	0.7		0.7	65.00	0.0		0.0
15.00	0.5		0.5	66.00	0.0		0.0
16.00	0.4		0.4	67.00	0.0		0.0
17.00	0.3		0.3	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 3P: P03 (Reserved Channel)

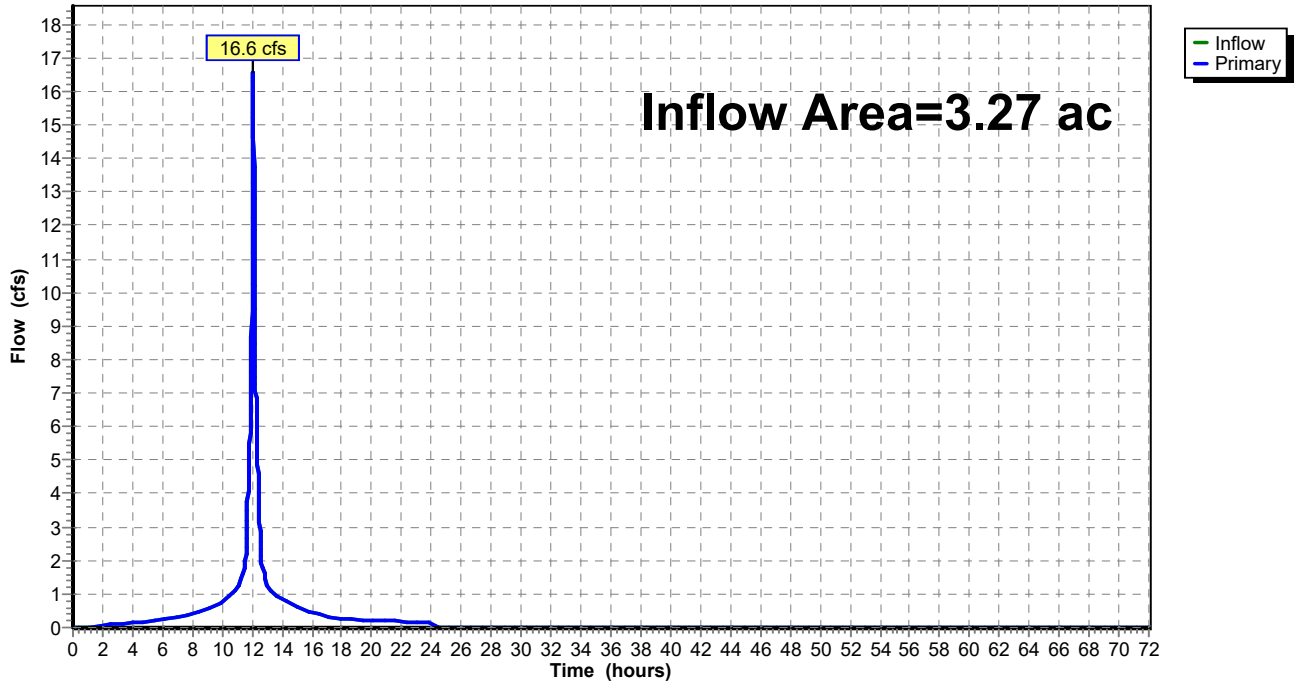
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.27 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 16.6 cfs @ 12.07 hrs, Volume= 1.298 af
Primary = 16.6 cfs @ 12.07 hrs, Volume= 1.298 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 3P: P03 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 3P: P03 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.3		0.3	58.00	0.0		0.0
8.00	0.4		0.4	59.00	0.0		0.0
9.00	0.6		0.6	60.00	0.0		0.0
10.00	0.8		0.8	61.00	0.0		0.0
11.00	1.1		1.1	62.00	0.0		0.0
12.00	11.2		11.2	63.00	0.0		0.0
13.00	1.3		1.3	64.00	0.0		0.0
14.00	0.8		0.8	65.00	0.0		0.0
15.00	0.6		0.6	66.00	0.0		0.0
16.00	0.4		0.4	67.00	0.0		0.0
17.00	0.4		0.4	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 4P: P04 (Reserved Channel)

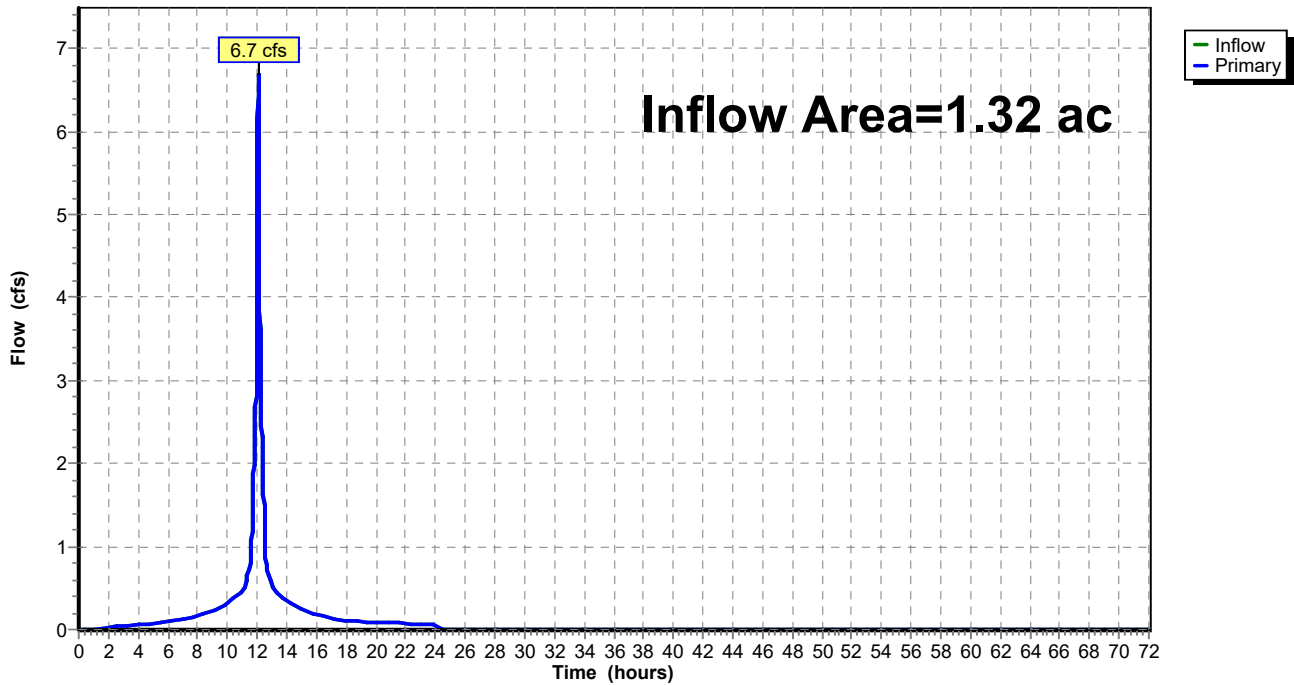
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.32 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 6.7 cfs @ 12.07 hrs, Volume= 0.524 af
Primary = 6.7 cfs @ 12.07 hrs, Volume= 0.524 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 4P: P04 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 4P: P04 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.0		0.0	53.00	0.0		0.0
3.00	0.0		0.0	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.1		0.1	57.00	0.0		0.0
7.00	0.1		0.1	58.00	0.0		0.0
8.00	0.2		0.2	59.00	0.0		0.0
9.00	0.2		0.2	60.00	0.0		0.0
10.00	0.3		0.3	61.00	0.0		0.0
11.00	0.5		0.5	62.00	0.0		0.0
12.00	4.5		4.5	63.00	0.0		0.0
13.00	0.5		0.5	64.00	0.0		0.0
14.00	0.3		0.3	65.00	0.0		0.0
15.00	0.3		0.3	66.00	0.0		0.0
16.00	0.2		0.2	67.00	0.0		0.0
17.00	0.1		0.1	68.00	0.0		0.0
18.00	0.1		0.1	69.00	0.0		0.0
19.00	0.1		0.1	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 5P: P05 (Reserved Channel)

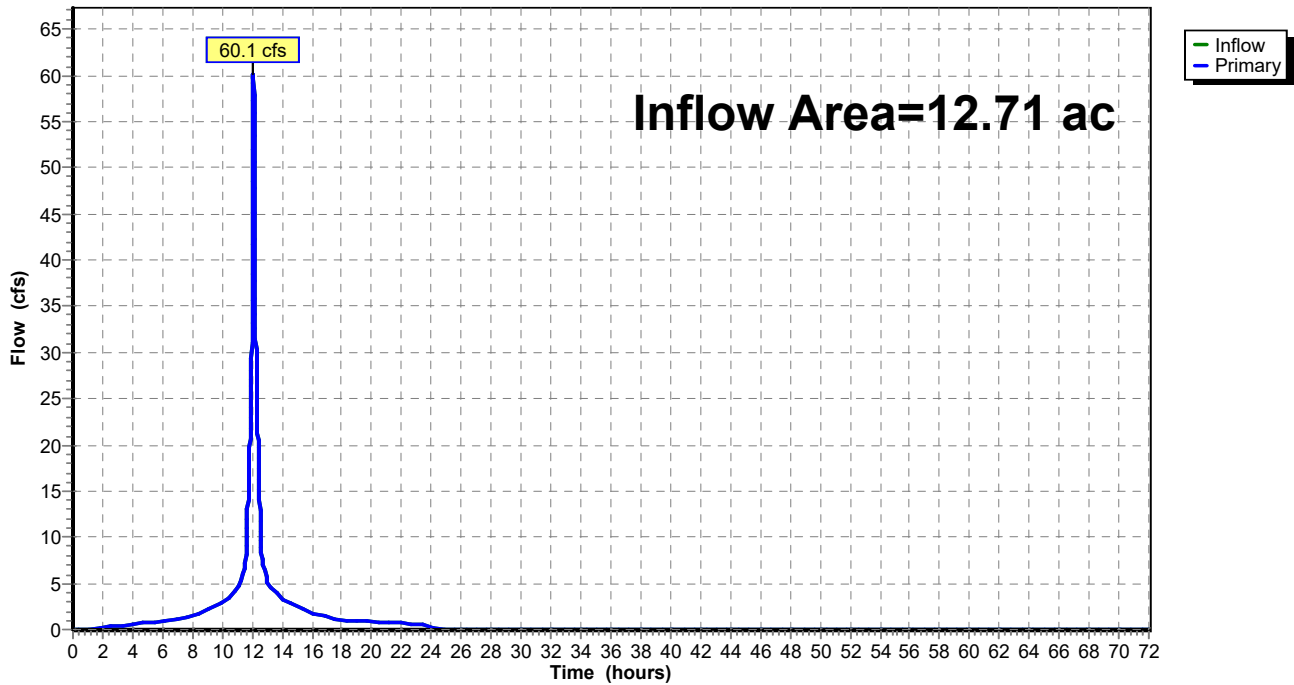
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.71 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 60.1 cfs @ 12.10 hrs, Volume= 5.045 af
Primary = 60.1 cfs @ 12.10 hrs, Volume= 5.045 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 5P: P05 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 5P: P05 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.4		0.4	54.00	0.0		0.0
4.00	0.6		0.6	55.00	0.0		0.0
5.00	0.7		0.7	56.00	0.0		0.0
6.00	0.9		0.9	57.00	0.0		0.0
7.00	1.2		1.2	58.00	0.0		0.0
8.00	1.5		1.5	59.00	0.0		0.0
9.00	2.2		2.2	60.00	0.0		0.0
10.00	3.0		3.0	61.00	0.0		0.0
11.00	4.4		4.4	62.00	0.0		0.0
12.00	35.7		35.7	63.00	0.0		0.0
13.00	5.3		5.3	64.00	0.0		0.0
14.00	3.3		3.3	65.00	0.0		0.0
15.00	2.5		2.5	66.00	0.0		0.0
16.00	1.7		1.7	67.00	0.0		0.0
17.00	1.4		1.4	68.00	0.0		0.0
18.00	1.1		1.1	69.00	0.0		0.0
19.00	0.9		0.9	70.00	0.0		0.0
20.00	0.8		0.8	71.00	0.0		0.0
21.00	0.8		0.8	72.00	0.0		0.0
22.00	0.7		0.7				
23.00	0.6		0.6				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 6P: P06 (Reserved Channel)

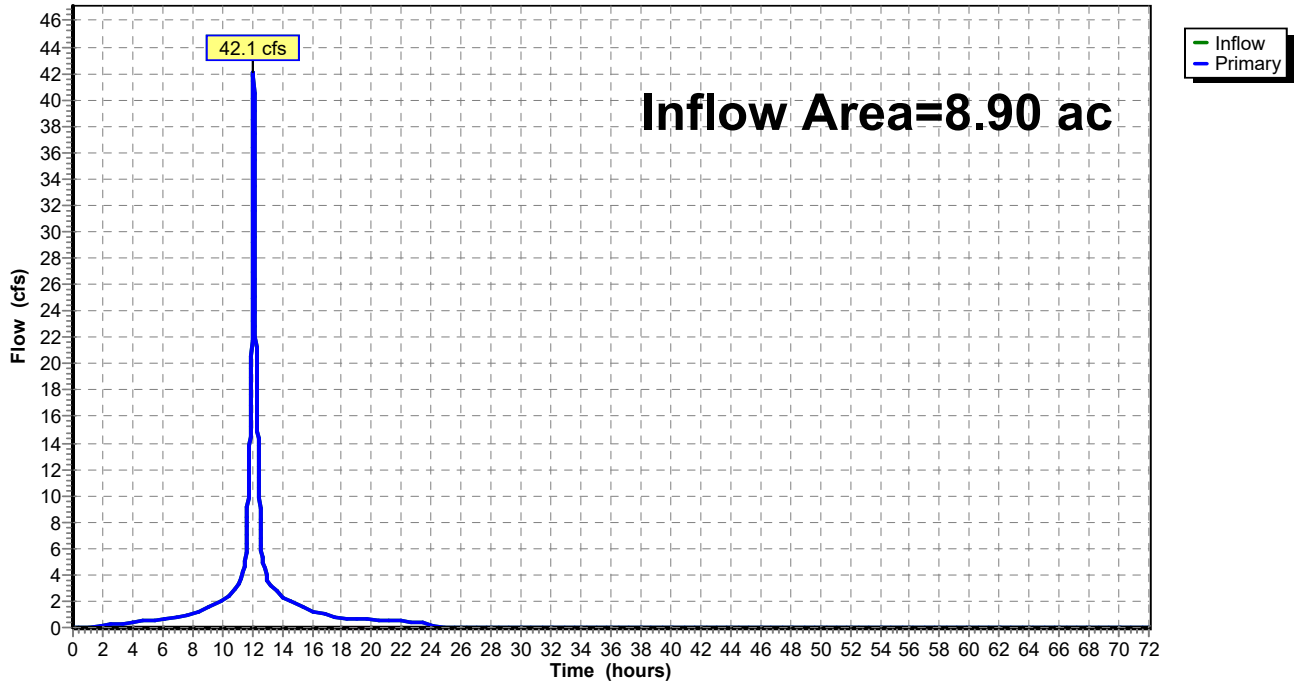
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 8.90 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 42.1 cfs @ 12.10 hrs, Volume= 3.533 af
Primary = 42.1 cfs @ 12.10 hrs, Volume= 3.533 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 6P: P06 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 6P: P06 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.3		0.3	54.00	0.0		0.0
4.00	0.4		0.4	55.00	0.0		0.0
5.00	0.5		0.5	56.00	0.0		0.0
6.00	0.6		0.6	57.00	0.0		0.0
7.00	0.8		0.8	58.00	0.0		0.0
8.00	1.1		1.1	59.00	0.0		0.0
9.00	1.5		1.5	60.00	0.0		0.0
10.00	2.1		2.1	61.00	0.0		0.0
11.00	3.1		3.1	62.00	0.0		0.0
12.00	25.0		25.0	63.00	0.0		0.0
13.00	3.7		3.7	64.00	0.0		0.0
14.00	2.3		2.3	65.00	0.0		0.0
15.00	1.7		1.7	66.00	0.0		0.0
16.00	1.2		1.2	67.00	0.0		0.0
17.00	1.0		1.0	68.00	0.0		0.0
18.00	0.7		0.7	69.00	0.0		0.0
19.00	0.7		0.7	70.00	0.0		0.0
20.00	0.6		0.6	71.00	0.0		0.0
21.00	0.5		0.5	72.00	0.0		0.0
22.00	0.5		0.5				
23.00	0.4		0.4				
24.00	0.4		0.4				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 7P: P07 (Reserved Channel)

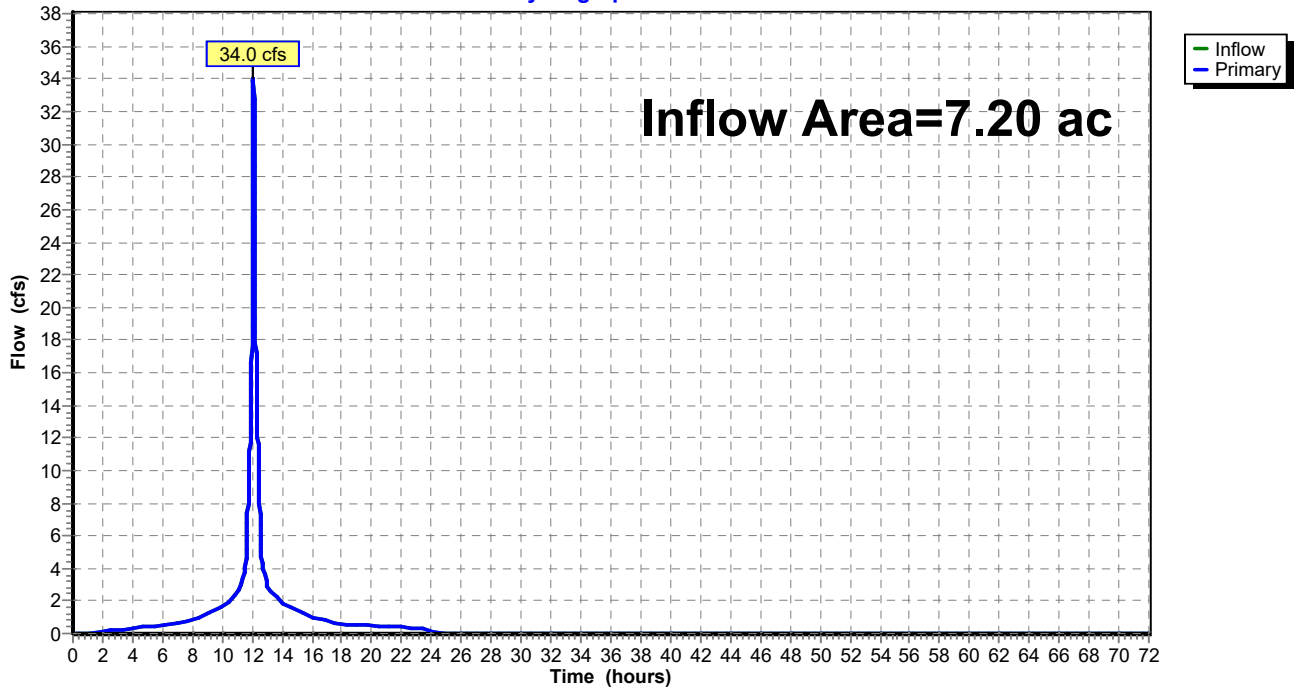
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.20 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 34.0 cfs @ 12.10 hrs, Volume= 2.858 af
Primary = 34.0 cfs @ 12.10 hrs, Volume= 2.858 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 7P: P07 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 7P: P07 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.4		0.4	56.00	0.0		0.0
6.00	0.5		0.5	57.00	0.0		0.0
7.00	0.7		0.7	58.00	0.0		0.0
8.00	0.8		0.8	59.00	0.0		0.0
9.00	1.2		1.2	60.00	0.0		0.0
10.00	1.7		1.7	61.00	0.0		0.0
11.00	2.5		2.5	62.00	0.0		0.0
12.00	20.2		20.2	63.00	0.0		0.0
13.00	3.0		3.0	64.00	0.0		0.0
14.00	1.9		1.9	65.00	0.0		0.0
15.00	1.4		1.4	66.00	0.0		0.0
16.00	1.0		1.0	67.00	0.0		0.0
17.00	0.8		0.8	68.00	0.0		0.0
18.00	0.6		0.6	69.00	0.0		0.0
19.00	0.5		0.5	70.00	0.0		0.0
20.00	0.5		0.5	71.00	0.0		0.0
21.00	0.4		0.4	72.00	0.0		0.0
22.00	0.4		0.4				
23.00	0.4		0.4				
24.00	0.3		0.3				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 8P: P08 (Reserved Channel)

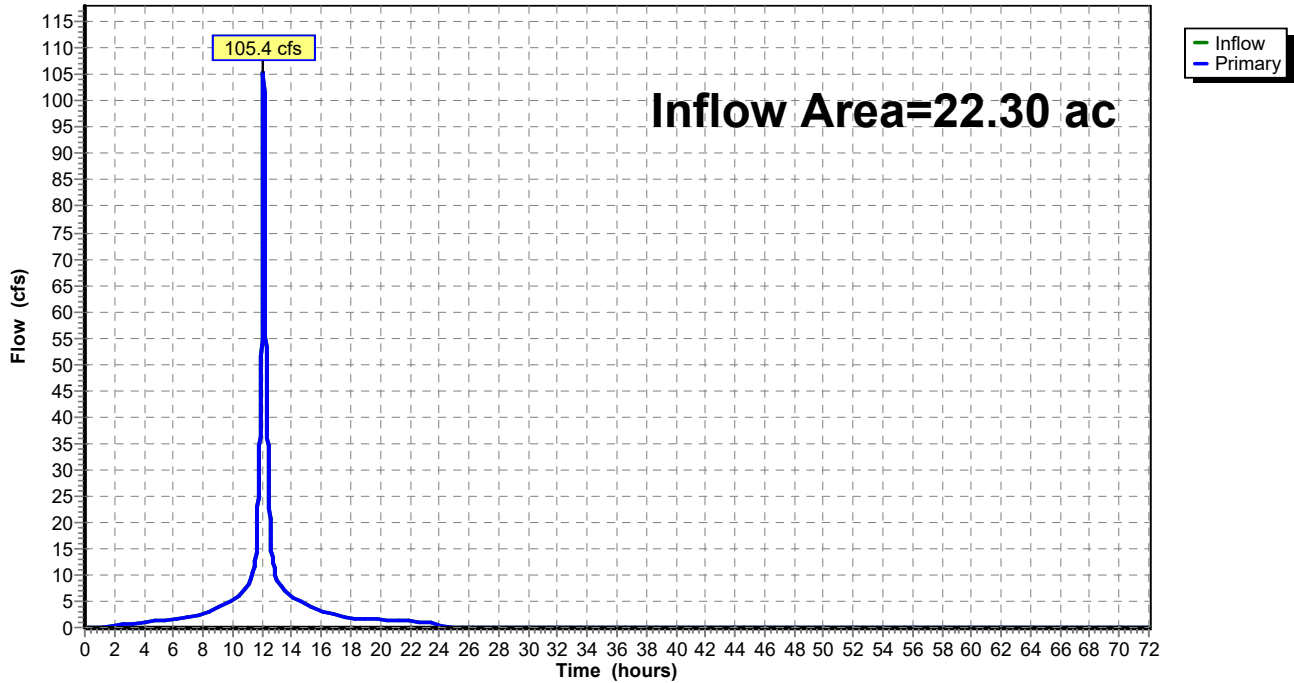
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.30 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 105.4 cfs @ 12.10 hrs, Volume= 8.852 af
Primary = 105.4 cfs @ 12.10 hrs, Volume= 8.852 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 8P: P08 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 8P: P08 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.4		0.4	53.00	0.0		0.0
3.00	0.7		0.7	54.00	0.0		0.0
4.00	1.0		1.0	55.00	0.0		0.0
5.00	1.3		1.3	56.00	0.0		0.0
6.00	1.5		1.5	57.00	0.0		0.0
7.00	2.0		2.0	58.00	0.0		0.0
8.00	2.6		2.6	59.00	0.0		0.0
9.00	3.9		3.9	60.00	0.0		0.0
10.00	5.2		5.2	61.00	0.0		0.0
11.00	7.7		7.7	62.00	0.0		0.0
12.00	62.7		62.7	63.00	0.0		0.0
13.00	9.3		9.3	64.00	0.0		0.0
14.00	5.8		5.8	65.00	0.0		0.0
15.00	4.3		4.3	66.00	0.0		0.0
16.00	3.1		3.1	67.00	0.0		0.0
17.00	2.4		2.4	68.00	0.0		0.0
18.00	1.9		1.9	69.00	0.0		0.0
19.00	1.6		1.6	70.00	0.0		0.0
20.00	1.5		1.5	71.00	0.0		0.0
21.00	1.3		1.3	72.00	0.0		0.0
22.00	1.2		1.2				
23.00	1.1		1.1				
24.00	1.0		1.0				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 9P: P09 (Reserved Channel)

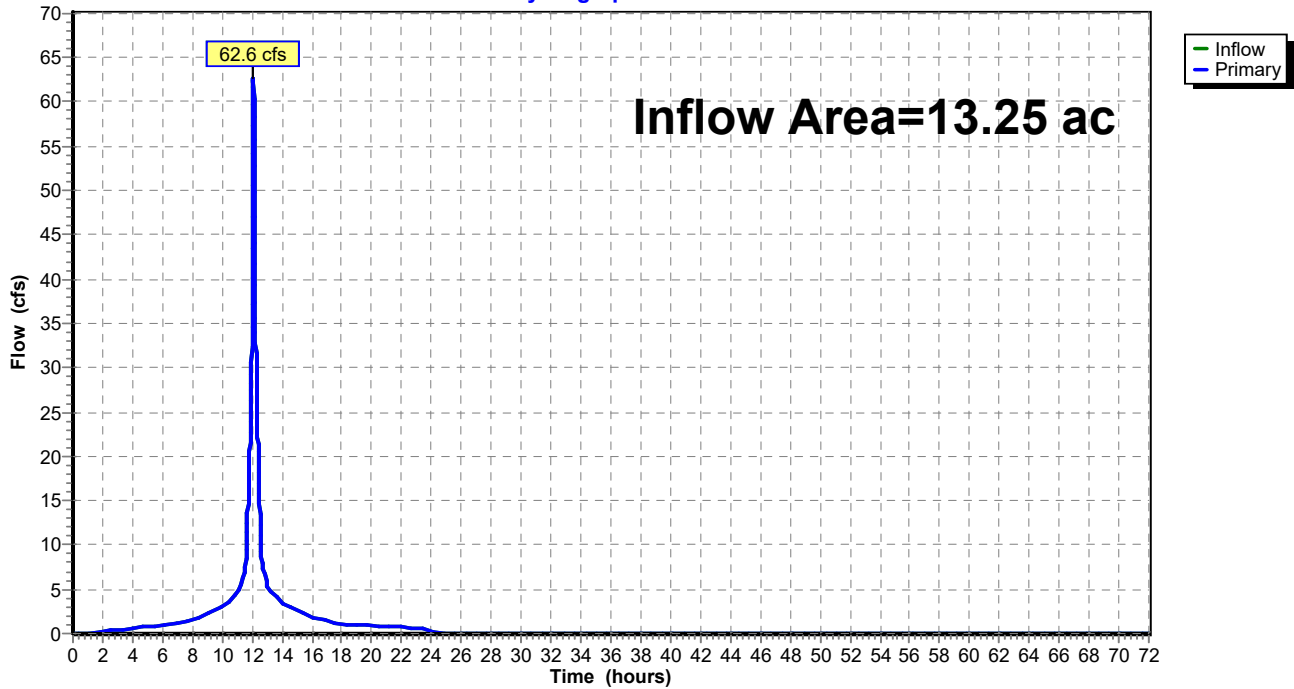
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.25 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 62.6 cfs @ 12.10 hrs, Volume= 5.259 af
Primary = 62.6 cfs @ 12.10 hrs, Volume= 5.259 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 9P: P09 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas*Type III 24-hr 10-year Rainfall=5.00"*

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Hydrograph for Pond 9P: P09 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.4		0.4	54.00	0.0		0.0
4.00	0.6		0.6	55.00	0.0		0.0
5.00	0.8		0.8	56.00	0.0		0.0
6.00	0.9		0.9	57.00	0.0		0.0
7.00	1.2		1.2	58.00	0.0		0.0
8.00	1.6		1.6	59.00	0.0		0.0
9.00	2.3		2.3	60.00	0.0		0.0
10.00	3.1		3.1	61.00	0.0		0.0
11.00	4.6		4.6	62.00	0.0		0.0
12.00	37.3		37.3	63.00	0.0		0.0
13.00	5.5		5.5	64.00	0.0		0.0
14.00	3.4		3.4	65.00	0.0		0.0
15.00	2.6		2.6	66.00	0.0		0.0
16.00	1.8		1.8	67.00	0.0		0.0
17.00	1.4		1.4	68.00	0.0		0.0
18.00	1.1		1.1	69.00	0.0		0.0
19.00	1.0		1.0	70.00	0.0		0.0
20.00	0.9		0.9	71.00	0.0		0.0
21.00	0.8		0.8	72.00	0.0		0.0
22.00	0.7		0.7				
23.00	0.7		0.7				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 10P: P10 (Reserved Channel)

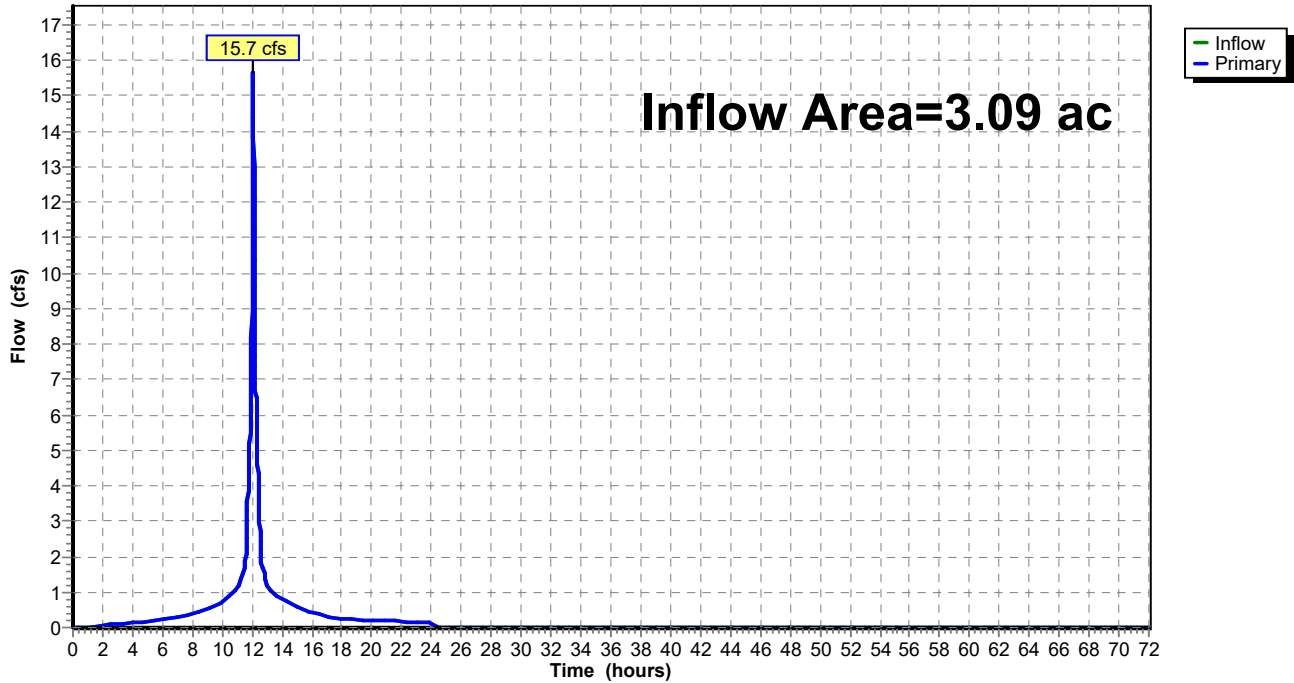
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.09 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 15.7 cfs @ 12.07 hrs, Volume= 1.227 af
Primary = 15.7 cfs @ 12.07 hrs, Volume= 1.227 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 10P: P10 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 10P: P10 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.3		0.3	58.00	0.0		0.0
8.00	0.4		0.4	59.00	0.0		0.0
9.00	0.5		0.5	60.00	0.0		0.0
10.00	0.7		0.7	61.00	0.0		0.0
11.00	1.1		1.1	62.00	0.0		0.0
12.00	10.6		10.6	63.00	0.0		0.0
13.00	1.2		1.2	64.00	0.0		0.0
14.00	0.8		0.8	65.00	0.0		0.0
15.00	0.6		0.6	66.00	0.0		0.0
16.00	0.4		0.4	67.00	0.0		0.0
17.00	0.3		0.3	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 11P: P11 (Reserved Channel)

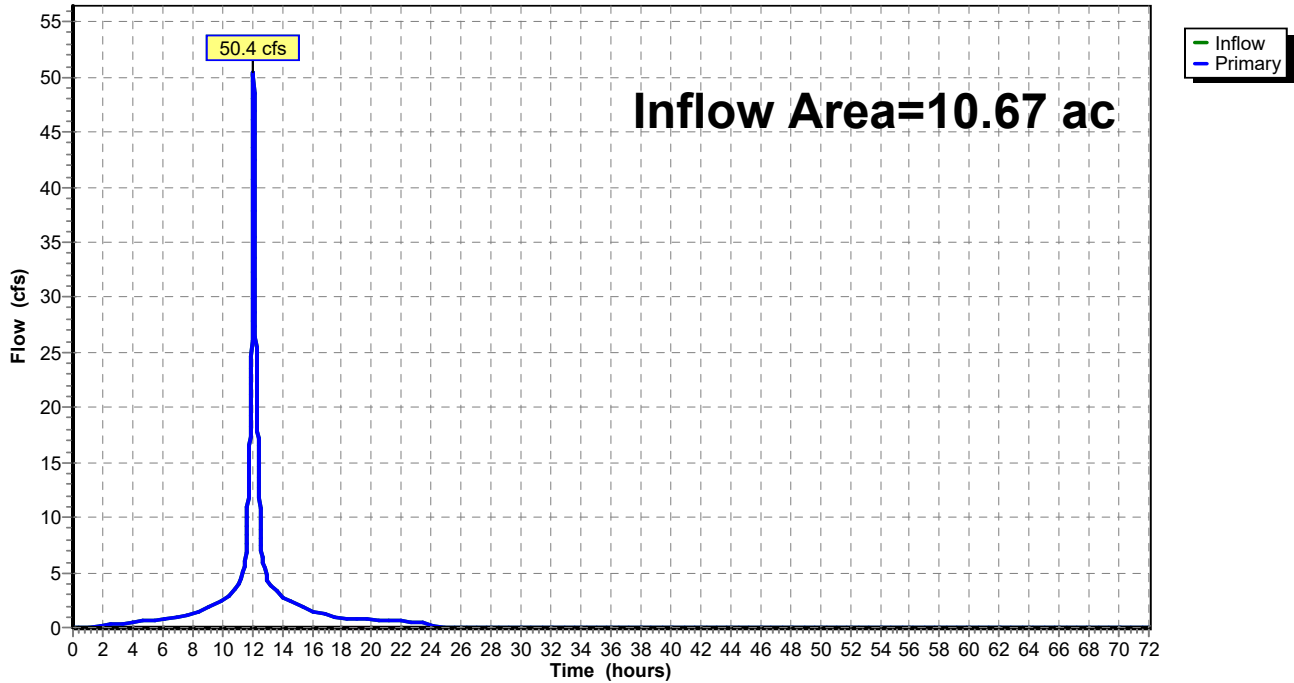
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.67 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-year event
Inflow = 50.4 cfs @ 12.10 hrs, Volume= 4.235 af
Primary = 50.4 cfs @ 12.10 hrs, Volume= 4.235 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 11P: P11 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 11P: P11 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.3		0.3	54.00	0.0		0.0
4.00	0.5		0.5	55.00	0.0		0.0
5.00	0.6		0.6	56.00	0.0		0.0
6.00	0.7		0.7	57.00	0.0		0.0
7.00	1.0		1.0	58.00	0.0		0.0
8.00	1.3		1.3	59.00	0.0		0.0
9.00	1.8		1.8	60.00	0.0		0.0
10.00	2.5		2.5	61.00	0.0		0.0
11.00	3.7		3.7	62.00	0.0		0.0
12.00	30.0		30.0	63.00	0.0		0.0
13.00	4.5		4.5	64.00	0.0		0.0
14.00	2.8		2.8	65.00	0.0		0.0
15.00	2.1		2.1	66.00	0.0		0.0
16.00	1.5		1.5	67.00	0.0		0.0
17.00	1.2		1.2	68.00	0.0		0.0
18.00	0.9		0.9	69.00	0.0		0.0
19.00	0.8		0.8	70.00	0.0		0.0
20.00	0.7		0.7	71.00	0.0		0.0
21.00	0.6		0.6	72.00	0.0		0.0
22.00	0.6		0.6				
23.00	0.5		0.5				
24.00	0.5		0.5				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentP01: P01 (Reserved)	Runoff Area=2.32 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=18.6 cfs 1.481 af
SubcatchmentP02: P02 (Reserved)	Runoff Area=2.64 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=21.2 cfs 1.685 af
SubcatchmentP03: P03 (Reserved)	Runoff Area=3.27 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=26.3 cfs 2.087 af
SubcatchmentP04: P04 (Offsite Draining)	Runoff Area=1.32 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=10.6 cfs 0.843 af
SubcatchmentP05: P05 (Reserved)	Runoff Area=12.71 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=95.3 cfs 8.113 af
SubcatchmentP06: P06 (Reserved)	Runoff Area=8.90 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=66.7 cfs 5.681 af
SubcatchmentP07: P07 (Reserved)	Runoff Area=7.20 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=54.0 cfs 4.596 af
SubcatchmentP08: P08 (Reserved)	Runoff Area=22.30 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=167.2 cfs 14.235 af
SubcatchmentP09: P09 (Reserved)	Runoff Area=13.25 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=99.3 cfs 8.458 af
SubcatchmentP10: P10 (Reserved)	Runoff Area=3.09 ac 100.00% Impervious Runoff Depth=7.66" Tc=5.0 min CN=98 Runoff=24.8 cfs 1.973 af
SubcatchmentP11: P11 (Reserved)	Runoff Area=10.67 ac 100.00% Impervious Runoff Depth=7.66" Tc=7.0 min CN=98 Runoff=80.0 cfs 6.811 af
Pond 1P: P01 (Reserved Channel)	Inflow=18.6 cfs 1.481 af Primary=18.6 cfs 1.481 af
Pond 2P: P02 (Reserved Channel)	Inflow=21.2 cfs 1.685 af Primary=21.2 cfs 1.685 af
Pond 3P: P03 (Reserved Channel)	Inflow=26.3 cfs 2.087 af Primary=26.3 cfs 2.087 af
Pond 4P: P04 (Reserved Channel)	Inflow=10.6 cfs 0.843 af Primary=10.6 cfs 0.843 af
Pond 5P: P05 (Reserved Channel)	Inflow=95.3 cfs 8.113 af Primary=95.3 cfs 8.113 af

Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Pond 6P: P06 (Reserved Channel)

Inflow=66.7 cfs 5.681 af
Primary=66.7 cfs 5.681 af

Pond 7P: P07 (Reserved Channel)

Inflow=54.0 cfs 4.596 af
Primary=54.0 cfs 4.596 af

Pond 8P: P08 (Reserved Channel)

Inflow=167.2 cfs 14.235 af
Primary=167.2 cfs 14.235 af

Pond 9P: P09 (Reserved Channel)

Inflow=99.3 cfs 8.458 af
Primary=99.3 cfs 8.458 af

Pond 10P: P10 (Reserved Channel)

Inflow=24.8 cfs 1.973 af
Primary=24.8 cfs 1.973 af

Pond 11P: P11 (Reserved Channel)

Inflow=80.0 cfs 6.811 af
Primary=80.0 cfs 6.811 af

Total Runoff Area = 87.67 ac Runoff Volume = 55.965 af Average Runoff Depth = 7.66"
0.00% Pervious = 0.00 ac 100.00% Impervious = 87.67 ac

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P01: P01 (Reserved Channel)

Runoff = 18.6 cfs @ 12.07 hrs, Volume= 1.481 af, Depth= 7.66"

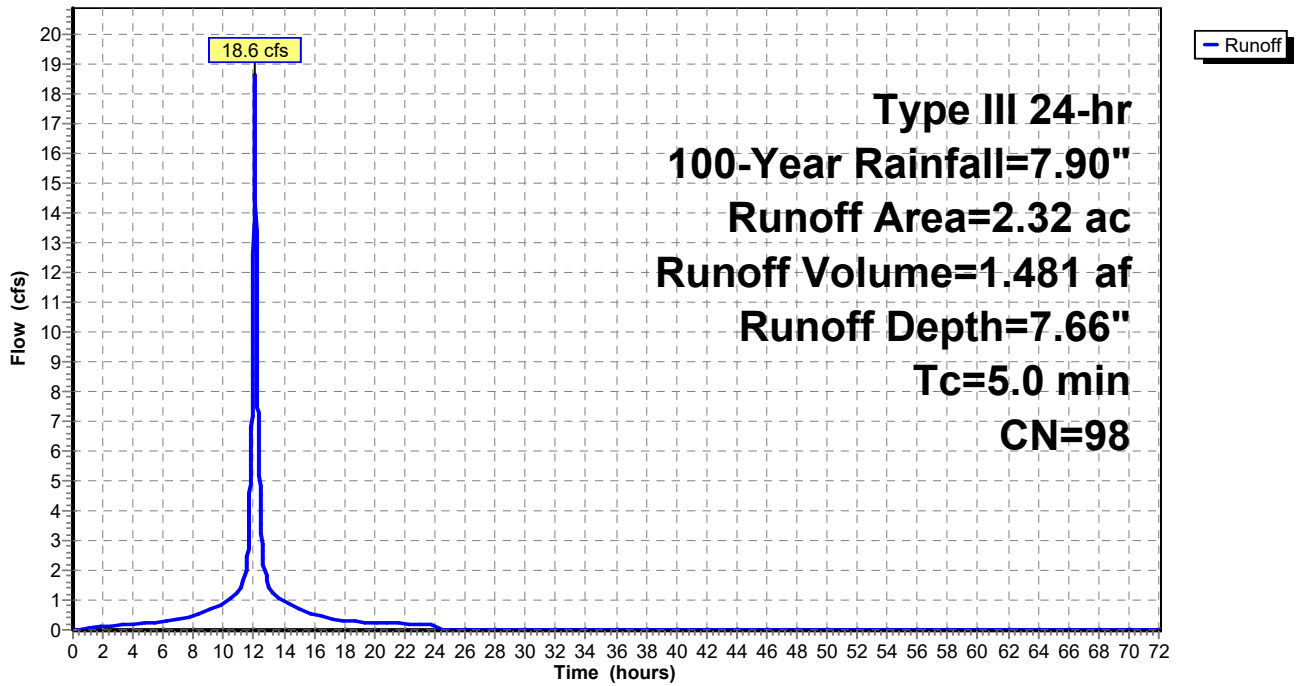
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
2.32	98	Paved parking, HSG B
2.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P01: P01 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P01: P01 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.0	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.1	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.2	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.2	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.2	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.3	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.4	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.5	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.7	60.00	7.90	7.66	0.0
10.00	1.49	1.27	0.9	61.00	7.90	7.66	0.0
11.00	1.97	1.75	1.3	62.00	7.90	7.66	0.0
12.00	3.95	3.72	12.6	63.00	7.90	7.66	0.0
13.00	5.92	5.69	1.5	64.00	7.90	7.66	0.0
14.00	6.41	6.17	0.9	65.00	7.90	7.66	0.0
15.00	6.75	6.51	0.7	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.5	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.4	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.3	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.3	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.2	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.2	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.2				
23.00	7.83	7.59	0.2				
24.00	7.90	7.66	0.2				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

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Summary for Subcatchment P02: P02 (Reserved Channel)

Runoff = 21.2 cfs @ 12.07 hrs, Volume= 1.685 af, Depth= 7.66"

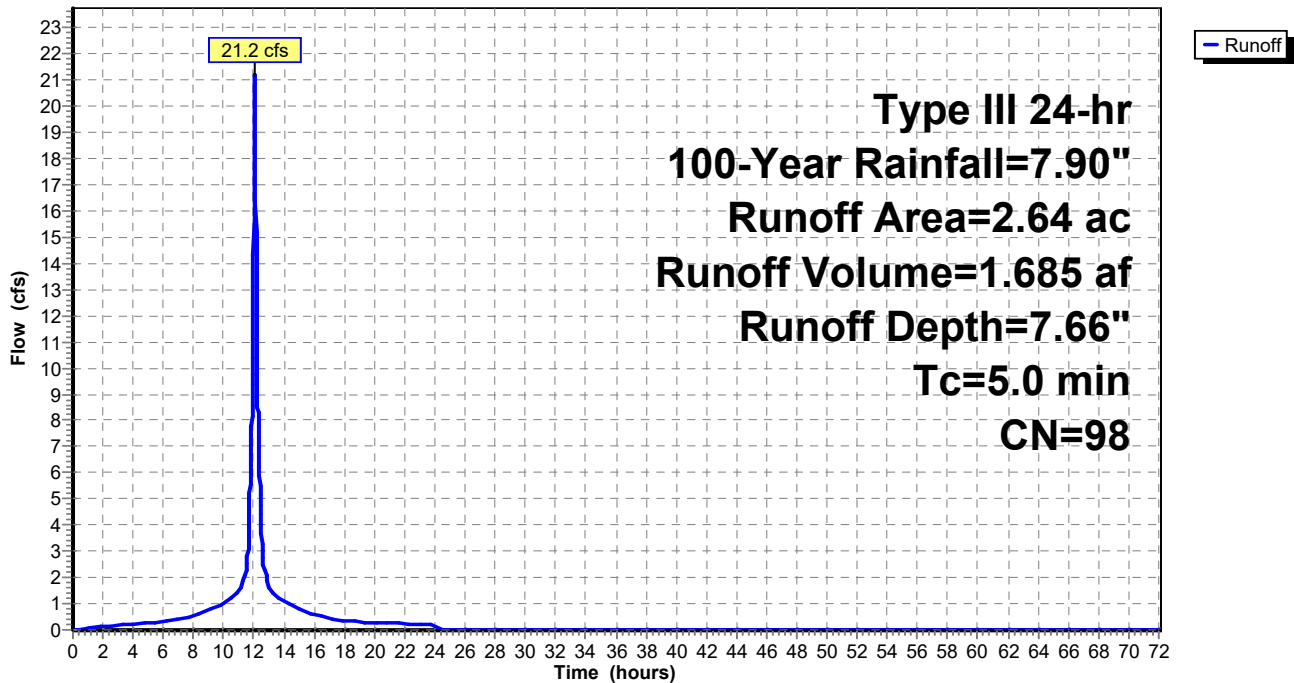
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
2.64	98	Paved parking, HSG B
2.64		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P02: P02 (Reserved Channel)

Hydrograph



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Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P02: P02 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.1	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.1	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.2	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.2	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.3	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.4	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.5	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.8	60.00	7.90	7.66	0.0
10.00	1.49	1.27	1.0	61.00	7.90	7.66	0.0
11.00	1.97	1.75	1.5	62.00	7.90	7.66	0.0
12.00	3.95	3.72	14.3	63.00	7.90	7.66	0.0
13.00	5.92	5.69	1.7	64.00	7.90	7.66	0.0
14.00	6.41	6.17	1.1	65.00	7.90	7.66	0.0
15.00	6.75	6.51	0.8	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.6	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.4	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.3	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.3	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.3	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.2				
23.00	7.83	7.59	0.2				
24.00	7.90	7.66	0.2				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P03: P03 (Reserved Channel)

Runoff = 26.3 cfs @ 12.07 hrs, Volume= 2.087 af, Depth= 7.66"

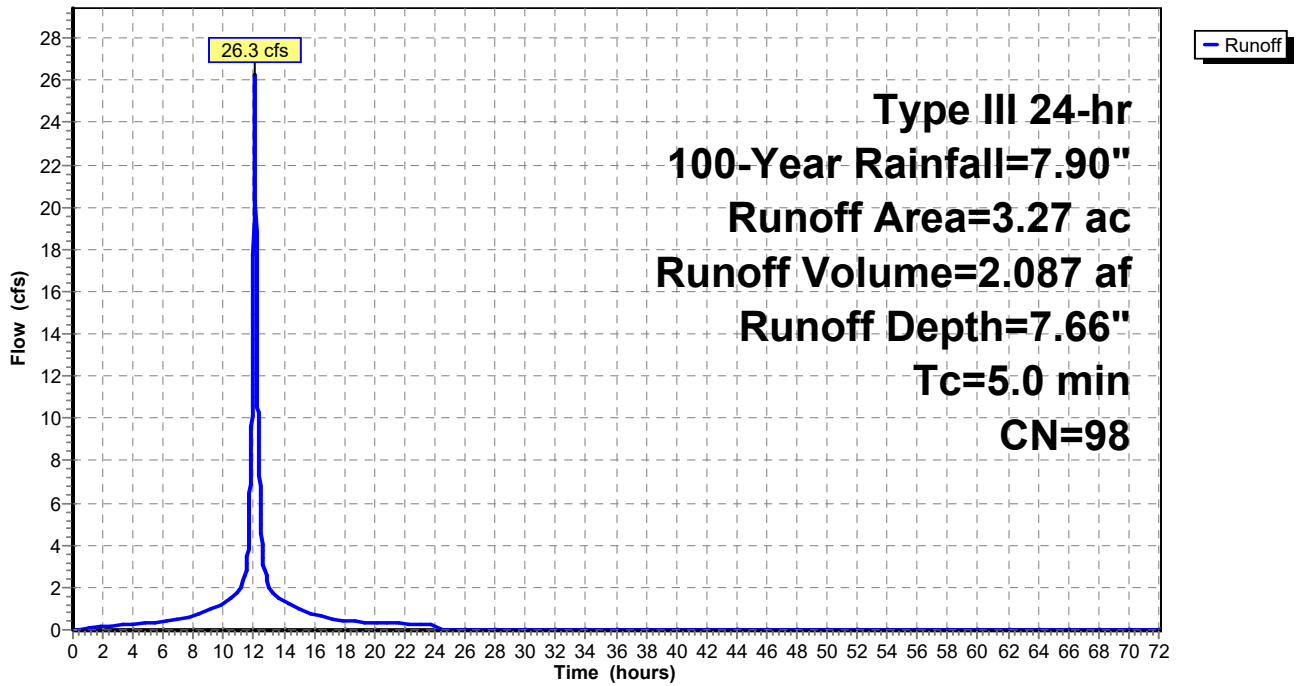
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
3.27	98	Paved parking, HSG B
3.27		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P03: P03 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P03: P03 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.1	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.2	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.2	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.3	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.4	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.5	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.6	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.9	60.00	7.90	7.66	0.0
10.00	1.49	1.27	1.2	61.00	7.90	7.66	0.0
11.00	1.97	1.75	1.8	62.00	7.90	7.66	0.0
12.00	3.95	3.72	17.8	63.00	7.90	7.66	0.0
13.00	5.92	5.69	2.1	64.00	7.90	7.66	0.0
14.00	6.41	6.17	1.3	65.00	7.90	7.66	0.0
15.00	6.75	6.51	1.0	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.7	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.6	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.4	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.4	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.3	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.3				
23.00	7.83	7.59	0.3				
24.00	7.90	7.66	0.2				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P04: P04 (Offsite Draining)

Runoff = 10.6 cfs @ 12.07 hrs, Volume= 0.843 af, Depth= 7.66"

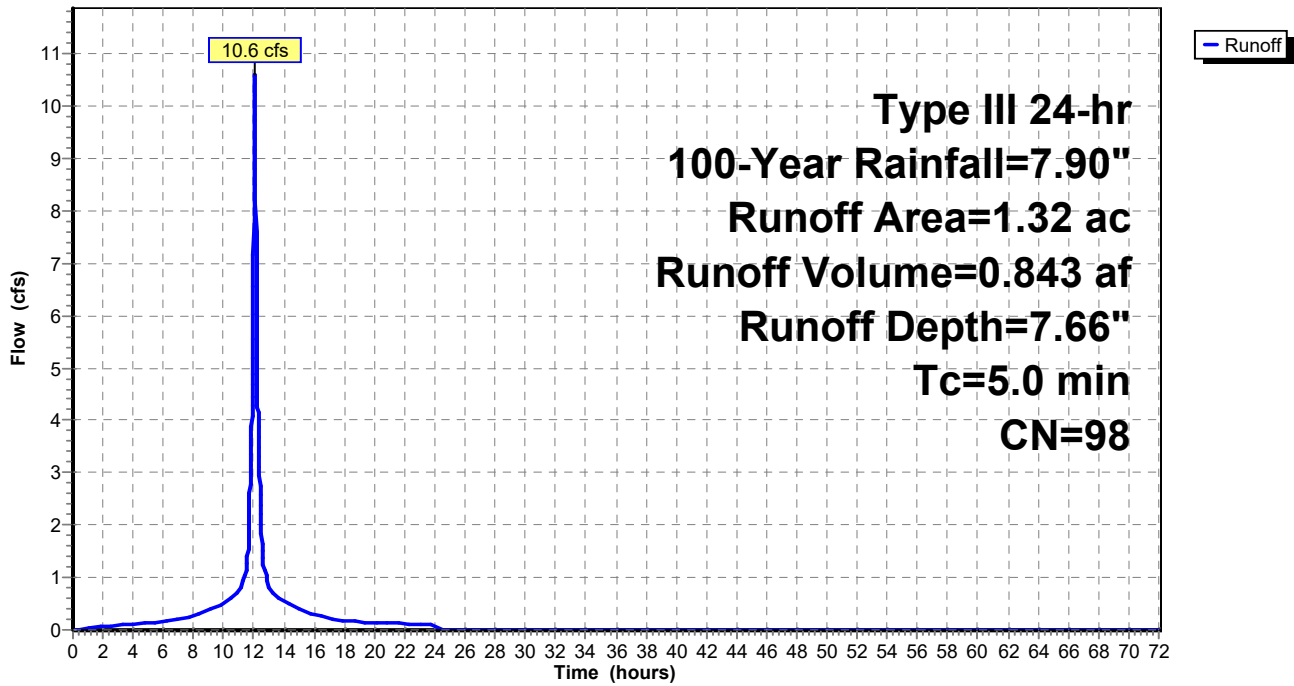
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
1.32	98	Paved parking, HSG B
1.32		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P04: P04 (Offsite Draining)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P04: P04 (Offsite Draining)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.0	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.1	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.1	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.1	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.1	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.2	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.2	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.3	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.4	60.00	7.90	7.66	0.0
10.00	1.49	1.27	0.5	61.00	7.90	7.66	0.0
11.00	1.97	1.75	0.7	62.00	7.90	7.66	0.0
12.00	3.95	3.72	7.2	63.00	7.90	7.66	0.0
13.00	5.92	5.69	0.8	64.00	7.90	7.66	0.0
14.00	6.41	6.17	0.5	65.00	7.90	7.66	0.0
15.00	6.75	6.51	0.4	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.3	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.2	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.2	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.2	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.1	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.1	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.1				
23.00	7.83	7.59	0.1				
24.00	7.90	7.66	0.1				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P05: P05 (Reserved Channel)

Runoff = 95.3 cfs @ 12.10 hrs, Volume= 8.113 af, Depth= 7.66"

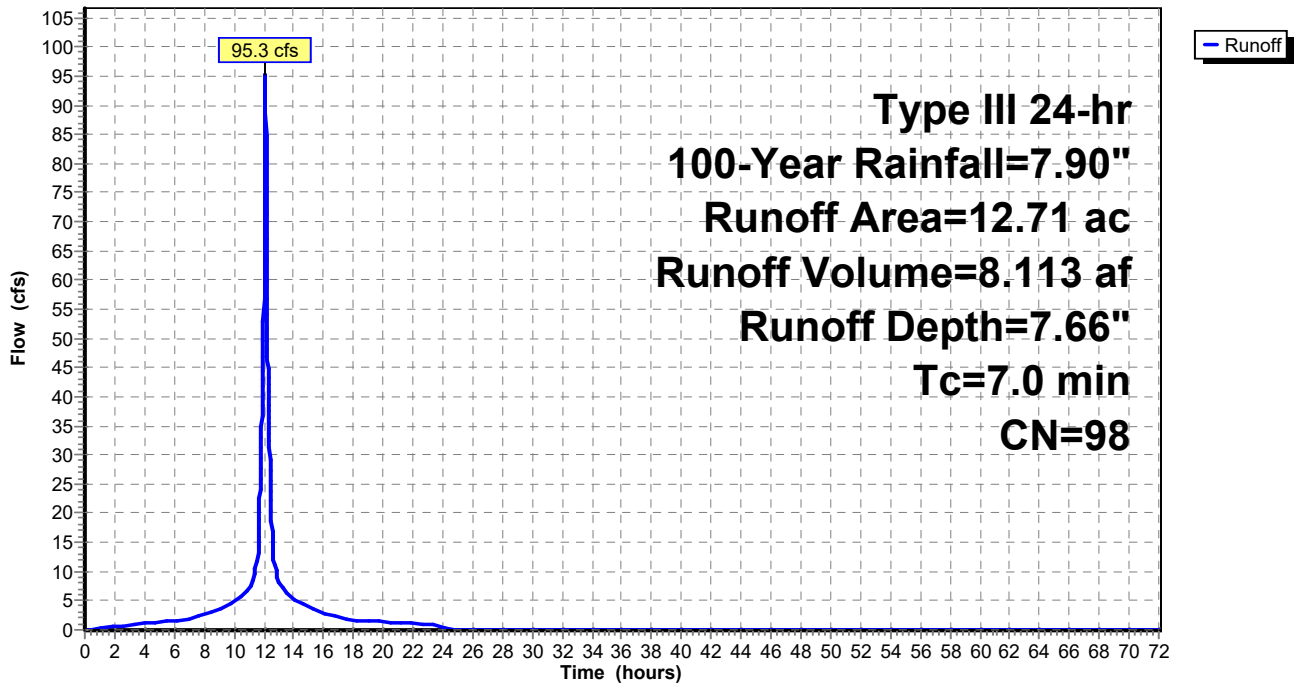
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
12.71	98	Paved parking, HSG B
12.71		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P05: P05 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P05: P05 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.6	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.8	54.00	7.90	7.66	0.0
4.00	0.34	0.18	1.1	55.00	7.90	7.66	0.0
5.00	0.45	0.27	1.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.5	57.00	7.90	7.66	0.0
7.00	0.71	0.52	2.0	58.00	7.90	7.66	0.0
8.00	0.90	0.69	2.5	59.00	7.90	7.66	0.0
9.00	1.15	0.94	3.6	60.00	7.90	7.66	0.0
10.00	1.49	1.27	4.8	61.00	7.90	7.66	0.0
11.00	1.97	1.75	7.1	62.00	7.90	7.66	0.0
12.00	3.95	3.72	56.7	63.00	7.90	7.66	0.0
13.00	5.92	5.69	8.4	64.00	7.90	7.66	0.0
14.00	6.41	6.17	5.2	65.00	7.90	7.66	0.0
15.00	6.75	6.51	3.9	66.00	7.90	7.66	0.0
16.00	7.00	6.76	2.8	67.00	7.90	7.66	0.0
17.00	7.19	6.95	2.2	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.7	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.5	70.00	7.90	7.66	0.0
20.00	7.56	7.32	1.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	1.2	72.00	7.90	7.66	0.0
22.00	7.75	7.51	1.1				
23.00	7.83	7.59	1.0				
24.00	7.90	7.66	0.9				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P06: P06 (Reserved Channel)

Runoff = 66.7 cfs @ 12.10 hrs, Volume= 5.681 af, Depth= 7.66"

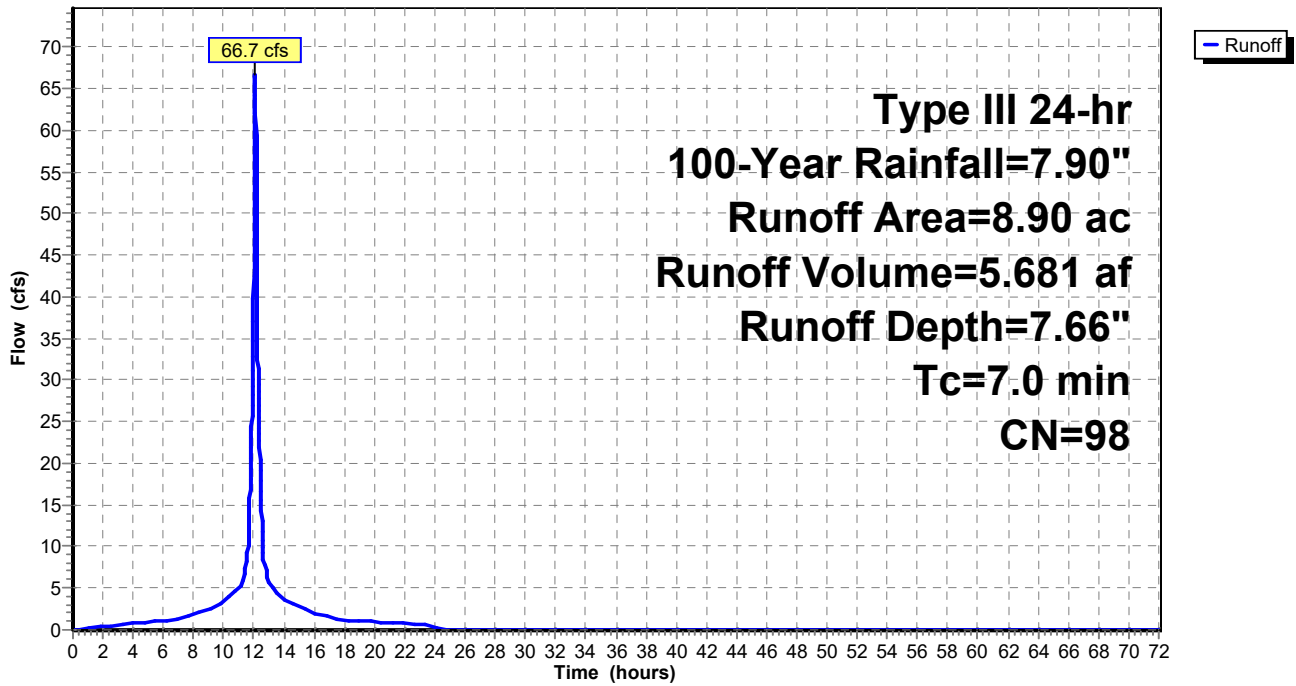
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
8.90	98	Paved parking, HSG B
8.90		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P06: P06 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P06: P06 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.4	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.6	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.8	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.9	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.0	57.00	7.90	7.66	0.0
7.00	0.71	0.52	1.4	58.00	7.90	7.66	0.0
8.00	0.90	0.69	1.7	59.00	7.90	7.66	0.0
9.00	1.15	0.94	2.5	60.00	7.90	7.66	0.0
10.00	1.49	1.27	3.3	61.00	7.90	7.66	0.0
11.00	1.97	1.75	4.9	62.00	7.90	7.66	0.0
12.00	3.95	3.72	39.7	63.00	7.90	7.66	0.0
13.00	5.92	5.69	5.9	64.00	7.90	7.66	0.0
14.00	6.41	6.17	3.7	65.00	7.90	7.66	0.0
15.00	6.75	6.51	2.7	66.00	7.90	7.66	0.0
16.00	7.00	6.76	1.9	67.00	7.90	7.66	0.0
17.00	7.19	6.95	1.5	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.2	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.0	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.9	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.8	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.8				
23.00	7.83	7.59	0.7				
24.00	7.90	7.66	0.6				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P07: P07 (Reserved Channel)

Runoff = 54.0 cfs @ 12.10 hrs, Volume= 4.596 af, Depth= 7.66"

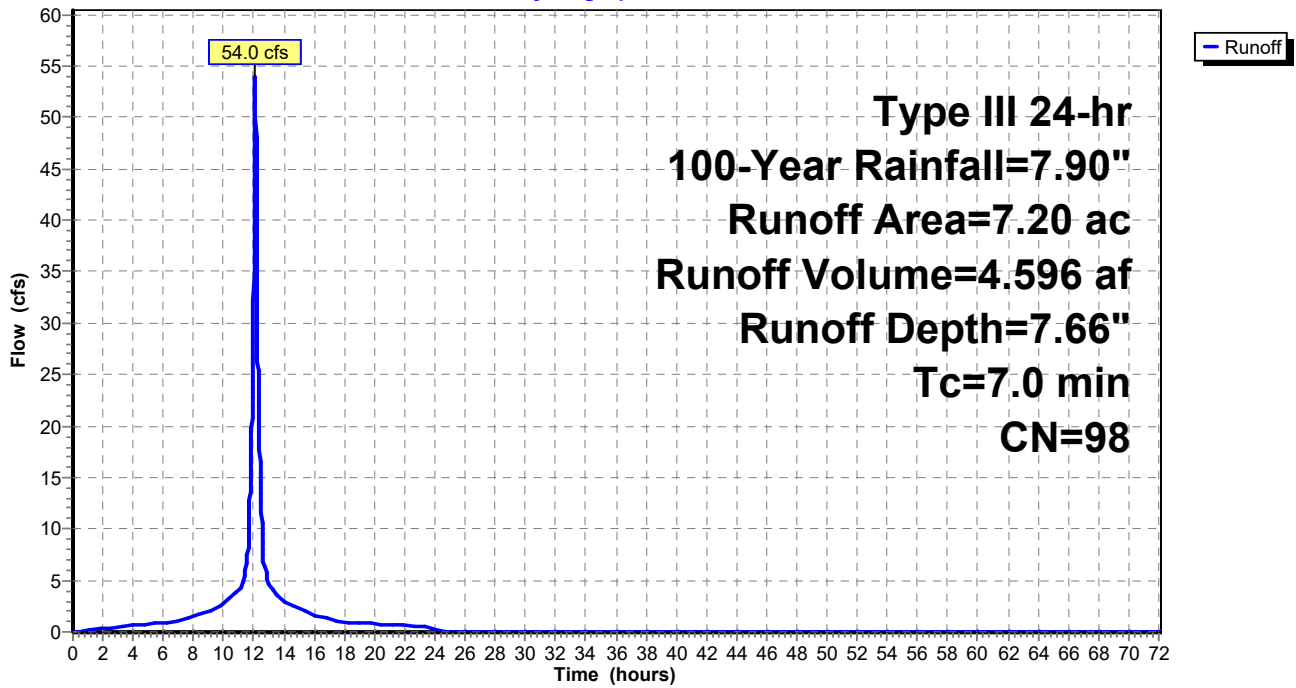
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
7.20	98	Paved parking, HSG B
7.20		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P07: P07 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Subcatchment P07: P07 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.1	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.3	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.5	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.6	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.7	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.8	57.00	7.90	7.66	0.0
7.00	0.71	0.52	1.1	58.00	7.90	7.66	0.0
8.00	0.90	0.69	1.4	59.00	7.90	7.66	0.0
9.00	1.15	0.94	2.0	60.00	7.90	7.66	0.0
10.00	1.49	1.27	2.7	61.00	7.90	7.66	0.0
11.00	1.97	1.75	4.0	62.00	7.90	7.66	0.0
12.00	3.95	3.72	32.1	63.00	7.90	7.66	0.0
13.00	5.92	5.69	4.8	64.00	7.90	7.66	0.0
14.00	6.41	6.17	3.0	65.00	7.90	7.66	0.0
15.00	6.75	6.51	2.2	66.00	7.90	7.66	0.0
16.00	7.00	6.76	1.6	67.00	7.90	7.66	0.0
17.00	7.19	6.95	1.2	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.9	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.8	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.8	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.7	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.6				
23.00	7.83	7.59	0.6				
24.00	7.90	7.66	0.5				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P08: P08 (Reserved Channel)

Runoff = 167.2 cfs @ 12.10 hrs, Volume= 14.235 af, Depth= 7.66"

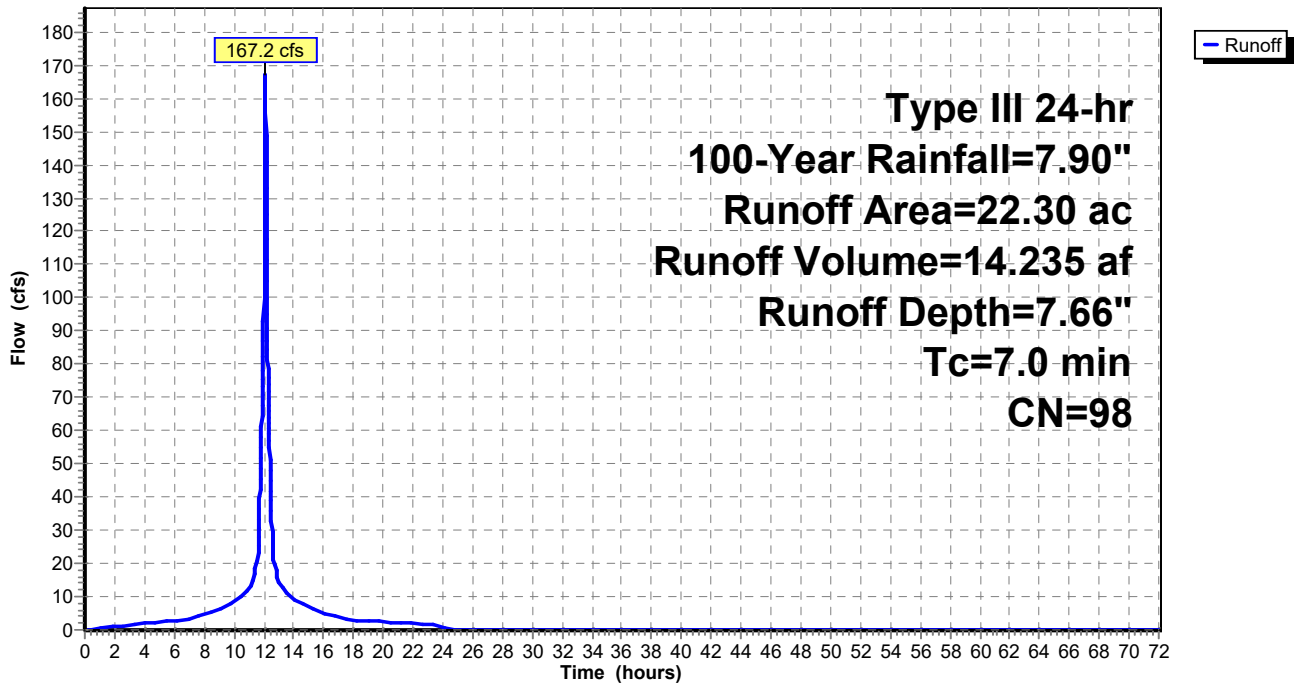
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
22.30	98	Paved parking, HSG B
22.30		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P08: P08 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P08: P08 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.4	52.00	7.90	7.66	0.0
2.00	0.16	0.04	1.0	53.00	7.90	7.66	0.0
3.00	0.24	0.10	1.5	54.00	7.90	7.66	0.0
4.00	0.34	0.18	1.9	55.00	7.90	7.66	0.0
5.00	0.45	0.27	2.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	2.6	57.00	7.90	7.66	0.0
7.00	0.71	0.52	3.4	58.00	7.90	7.66	0.0
8.00	0.90	0.69	4.3	59.00	7.90	7.66	0.0
9.00	1.15	0.94	6.3	60.00	7.90	7.66	0.0
10.00	1.49	1.27	8.3	61.00	7.90	7.66	0.0
11.00	1.97	1.75	12.4	62.00	7.90	7.66	0.0
12.00	3.95	3.72	99.5	63.00	7.90	7.66	0.0
13.00	5.92	5.69	14.7	64.00	7.90	7.66	0.0
14.00	6.41	6.17	9.2	65.00	7.90	7.66	0.0
15.00	6.75	6.51	6.9	66.00	7.90	7.66	0.0
16.00	7.00	6.76	4.8	67.00	7.90	7.66	0.0
17.00	7.19	6.95	3.8	68.00	7.90	7.66	0.0
18.00	7.33	7.09	2.9	69.00	7.90	7.66	0.0
19.00	7.45	7.21	2.6	70.00	7.90	7.66	0.0
20.00	7.56	7.32	2.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	2.1	72.00	7.90	7.66	0.0
22.00	7.75	7.51	1.9				
23.00	7.83	7.59	1.7				
24.00	7.90	7.66	1.5				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P09: P09 (Reserved Channel)

Runoff = 99.3 cfs @ 12.10 hrs, Volume= 8.458 af, Depth= 7.66"

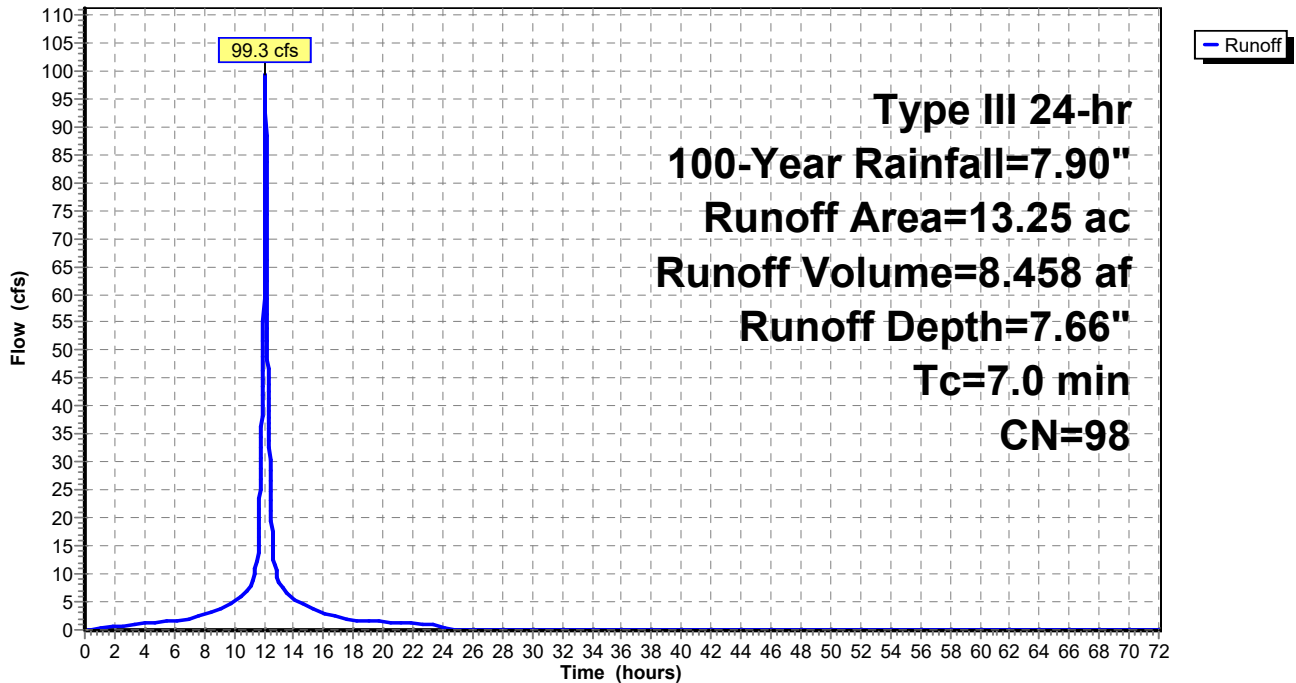
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
13.25	98	Paved parking, HSG B
13.25		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P09: P09 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P09: P09 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.6	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.9	54.00	7.90	7.66	0.0
4.00	0.34	0.18	1.1	55.00	7.90	7.66	0.0
5.00	0.45	0.27	1.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.5	57.00	7.90	7.66	0.0
7.00	0.71	0.52	2.0	58.00	7.90	7.66	0.0
8.00	0.90	0.69	2.6	59.00	7.90	7.66	0.0
9.00	1.15	0.94	3.7	60.00	7.90	7.66	0.0
10.00	1.49	1.27	5.0	61.00	7.90	7.66	0.0
11.00	1.97	1.75	7.4	62.00	7.90	7.66	0.0
12.00	3.95	3.72	59.1	63.00	7.90	7.66	0.0
13.00	5.92	5.69	8.7	64.00	7.90	7.66	0.0
14.00	6.41	6.17	5.4	65.00	7.90	7.66	0.0
15.00	6.75	6.51	4.1	66.00	7.90	7.66	0.0
16.00	7.00	6.76	2.9	67.00	7.90	7.66	0.0
17.00	7.19	6.95	2.3	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.7	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.5	70.00	7.90	7.66	0.0
20.00	7.56	7.32	1.4	71.00	7.90	7.66	0.0
21.00	7.66	7.42	1.3	72.00	7.90	7.66	0.0
22.00	7.75	7.51	1.1				
23.00	7.83	7.59	1.0				
24.00	7.90	7.66	0.9				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P10: P10 (Reserved Channel)

Runoff = 24.8 cfs @ 12.07 hrs, Volume= 1.973 af, Depth= 7.66"

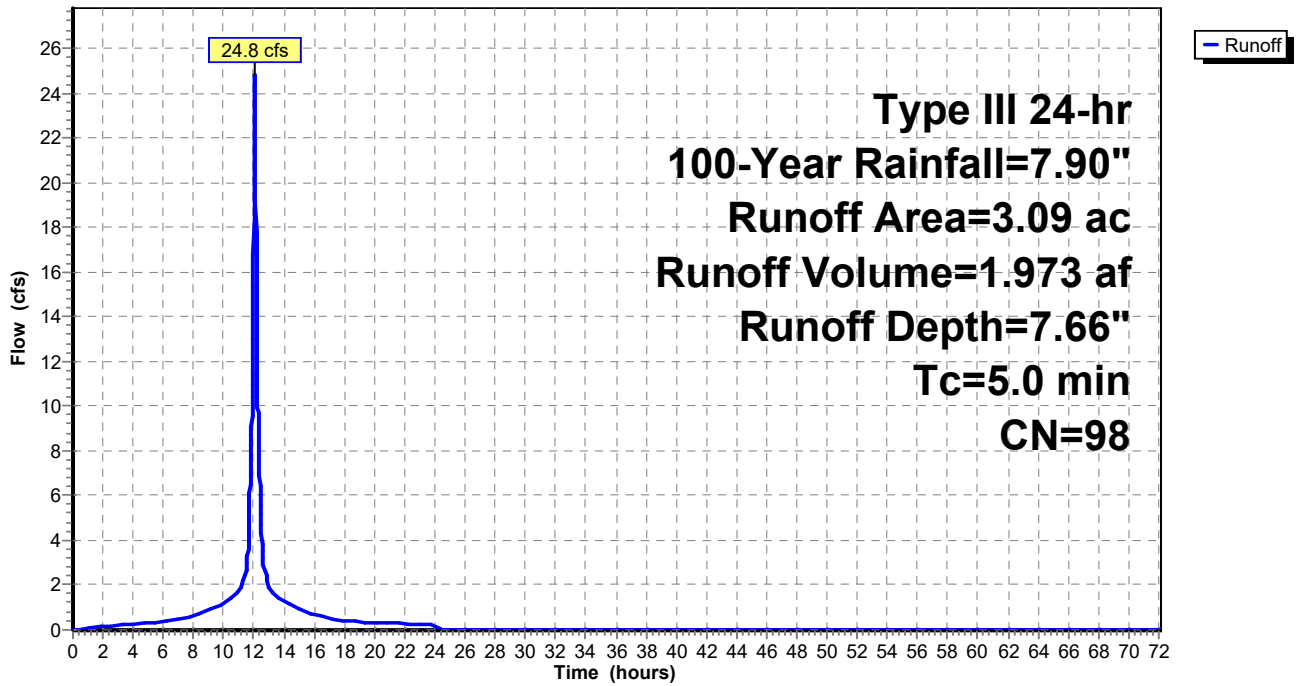
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
3.09	98	Paved parking, HSG B
3.09		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment P10: P10 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P10: P10 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.1	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.1	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.2	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.3	55.00	7.90	7.66	0.0
5.00	0.45	0.27	0.3	56.00	7.90	7.66	0.0
6.00	0.57	0.38	0.4	57.00	7.90	7.66	0.0
7.00	0.71	0.52	0.5	58.00	7.90	7.66	0.0
8.00	0.90	0.69	0.6	59.00	7.90	7.66	0.0
9.00	1.15	0.94	0.9	60.00	7.90	7.66	0.0
10.00	1.49	1.27	1.2	61.00	7.90	7.66	0.0
11.00	1.97	1.75	1.7	62.00	7.90	7.66	0.0
12.00	3.95	3.72	16.8	63.00	7.90	7.66	0.0
13.00	5.92	5.69	2.0	64.00	7.90	7.66	0.0
14.00	6.41	6.17	1.3	65.00	7.90	7.66	0.0
15.00	6.75	6.51	0.9	66.00	7.90	7.66	0.0
16.00	7.00	6.76	0.7	67.00	7.90	7.66	0.0
17.00	7.19	6.95	0.5	68.00	7.90	7.66	0.0
18.00	7.33	7.09	0.4	69.00	7.90	7.66	0.0
19.00	7.45	7.21	0.4	70.00	7.90	7.66	0.0
20.00	7.56	7.32	0.3	71.00	7.90	7.66	0.0
21.00	7.66	7.42	0.3	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.3				
23.00	7.83	7.59	0.2				
24.00	7.90	7.66	0.2				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Subcatchment P11: P11 (Reserved Channel)

Runoff = 80.0 cfs @ 12.10 hrs, Volume= 6.811 af, Depth= 7.66"

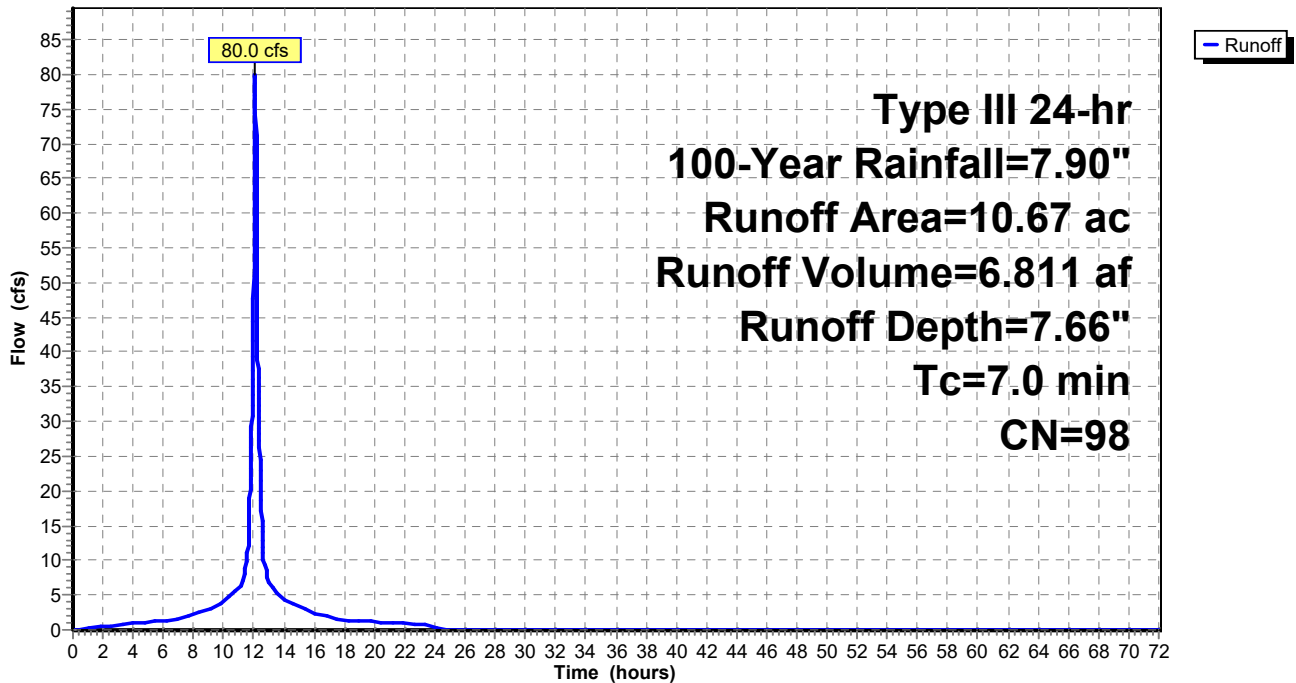
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.90"

Area (ac)	CN	Description
10.67	98	Paved parking, HSG B
10.67		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0					Direct Entry,

Subcatchment P11: P11 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Subcatchment P11: P11 (Reserved Channel)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.0	51.00	7.90	7.66	0.0
1.00	0.08	0.01	0.2	52.00	7.90	7.66	0.0
2.00	0.16	0.04	0.5	53.00	7.90	7.66	0.0
3.00	0.24	0.10	0.7	54.00	7.90	7.66	0.0
4.00	0.34	0.18	0.9	55.00	7.90	7.66	0.0
5.00	0.45	0.27	1.1	56.00	7.90	7.66	0.0
6.00	0.57	0.38	1.2	57.00	7.90	7.66	0.0
7.00	0.71	0.52	1.6	58.00	7.90	7.66	0.0
8.00	0.90	0.69	2.1	59.00	7.90	7.66	0.0
9.00	1.15	0.94	3.0	60.00	7.90	7.66	0.0
10.00	1.49	1.27	4.0	61.00	7.90	7.66	0.0
11.00	1.97	1.75	5.9	62.00	7.90	7.66	0.0
12.00	3.95	3.72	47.6	63.00	7.90	7.66	0.0
13.00	5.92	5.69	7.0	64.00	7.90	7.66	0.0
14.00	6.41	6.17	4.4	65.00	7.90	7.66	0.0
15.00	6.75	6.51	3.3	66.00	7.90	7.66	0.0
16.00	7.00	6.76	2.3	67.00	7.90	7.66	0.0
17.00	7.19	6.95	1.8	68.00	7.90	7.66	0.0
18.00	7.33	7.09	1.4	69.00	7.90	7.66	0.0
19.00	7.45	7.21	1.2	70.00	7.90	7.66	0.0
20.00	7.56	7.32	1.1	71.00	7.90	7.66	0.0
21.00	7.66	7.42	1.0	72.00	7.90	7.66	0.0
22.00	7.75	7.51	0.9				
23.00	7.83	7.59	0.8				
24.00	7.90	7.66	0.7				
25.00	7.90	7.66	0.0				
26.00	7.90	7.66	0.0				
27.00	7.90	7.66	0.0				
28.00	7.90	7.66	0.0				
29.00	7.90	7.66	0.0				
30.00	7.90	7.66	0.0				
31.00	7.90	7.66	0.0				
32.00	7.90	7.66	0.0				
33.00	7.90	7.66	0.0				
34.00	7.90	7.66	0.0				
35.00	7.90	7.66	0.0				
36.00	7.90	7.66	0.0				
37.00	7.90	7.66	0.0				
38.00	7.90	7.66	0.0				
39.00	7.90	7.66	0.0				
40.00	7.90	7.66	0.0				
41.00	7.90	7.66	0.0				
42.00	7.90	7.66	0.0				
43.00	7.90	7.66	0.0				
44.00	7.90	7.66	0.0				
45.00	7.90	7.66	0.0				
46.00	7.90	7.66	0.0				
47.00	7.90	7.66	0.0				
48.00	7.90	7.66	0.0				
49.00	7.90	7.66	0.0				
50.00	7.90	7.66	0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 1P: P01 (Reserved Channel)

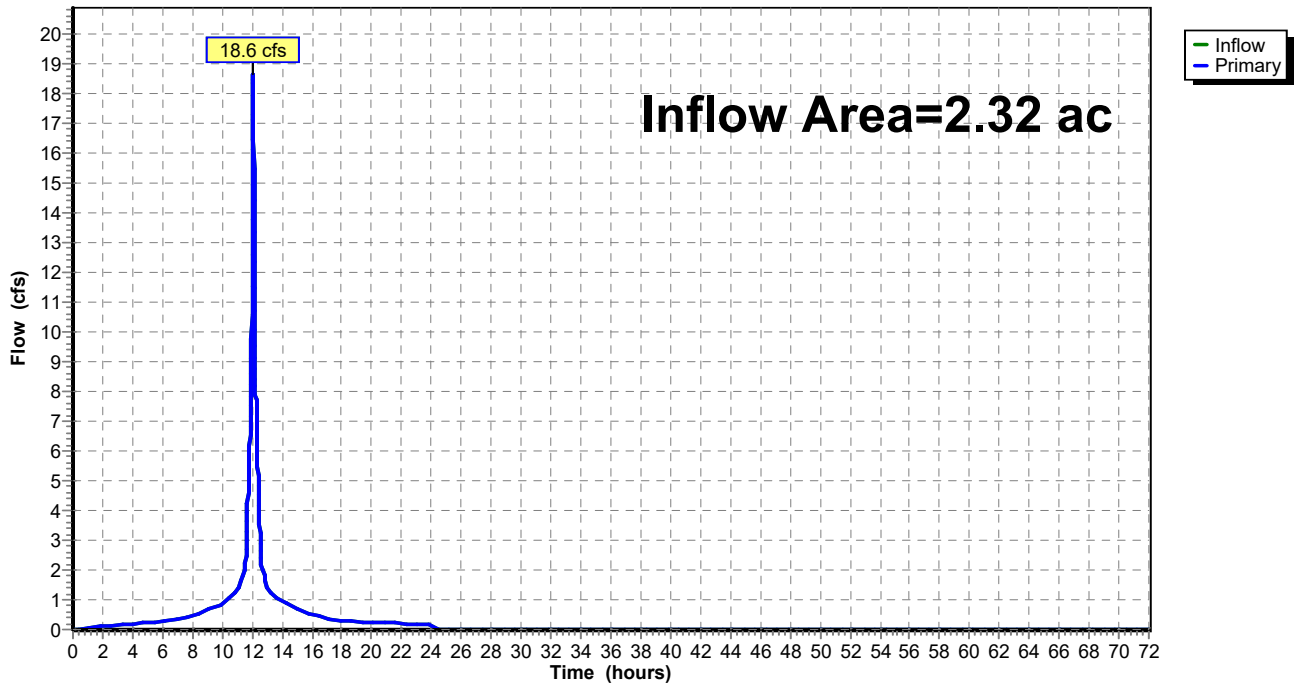
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.32 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 18.6 cfs @ 12.07 hrs, Volume= 1.481 af
Primary = 18.6 cfs @ 12.07 hrs, Volume= 1.481 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 1P: P01 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 1P: P01 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.2		0.2	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.4		0.4	58.00	0.0		0.0
8.00	0.5		0.5	59.00	0.0		0.0
9.00	0.7		0.7	60.00	0.0		0.0
10.00	0.9		0.9	61.00	0.0		0.0
11.00	1.3		1.3	62.00	0.0		0.0
12.00	12.6		12.6	63.00	0.0		0.0
13.00	1.5		1.5	64.00	0.0		0.0
14.00	0.9		0.9	65.00	0.0		0.0
15.00	0.7		0.7	66.00	0.0		0.0
16.00	0.5		0.5	67.00	0.0		0.0
17.00	0.4		0.4	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.3		0.3	70.00	0.0		0.0
20.00	0.2		0.2	71.00	0.0		0.0
21.00	0.2		0.2	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 2P: P02 (Reserved Channel)

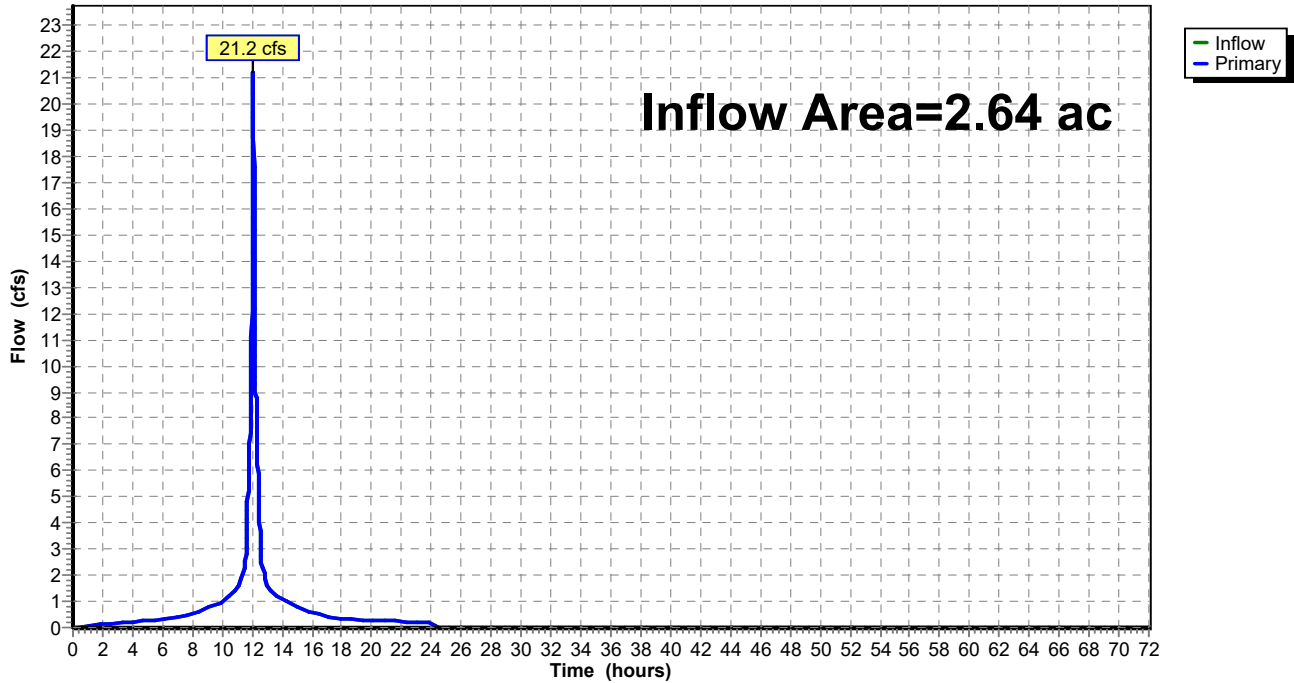
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 2.64 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 21.2 cfs @ 12.07 hrs, Volume= 1.685 af
Primary = 21.2 cfs @ 12.07 hrs, Volume= 1.685 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 2P: P02 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Pond 2P: P02 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.1		0.1	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.2		0.2	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.3		0.3	57.00	0.0		0.0
7.00	0.4		0.4	58.00	0.0		0.0
8.00	0.5		0.5	59.00	0.0		0.0
9.00	0.8		0.8	60.00	0.0		0.0
10.00	1.0		1.0	61.00	0.0		0.0
11.00	1.5		1.5	62.00	0.0		0.0
12.00	14.3		14.3	63.00	0.0		0.0
13.00	1.7		1.7	64.00	0.0		0.0
14.00	1.1		1.1	65.00	0.0		0.0
15.00	0.8		0.8	66.00	0.0		0.0
16.00	0.6		0.6	67.00	0.0		0.0
17.00	0.4		0.4	68.00	0.0		0.0
18.00	0.3		0.3	69.00	0.0		0.0
19.00	0.3		0.3	70.00	0.0		0.0
20.00	0.3		0.3	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.2		0.2				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 3P: P03 (Reserved Channel)

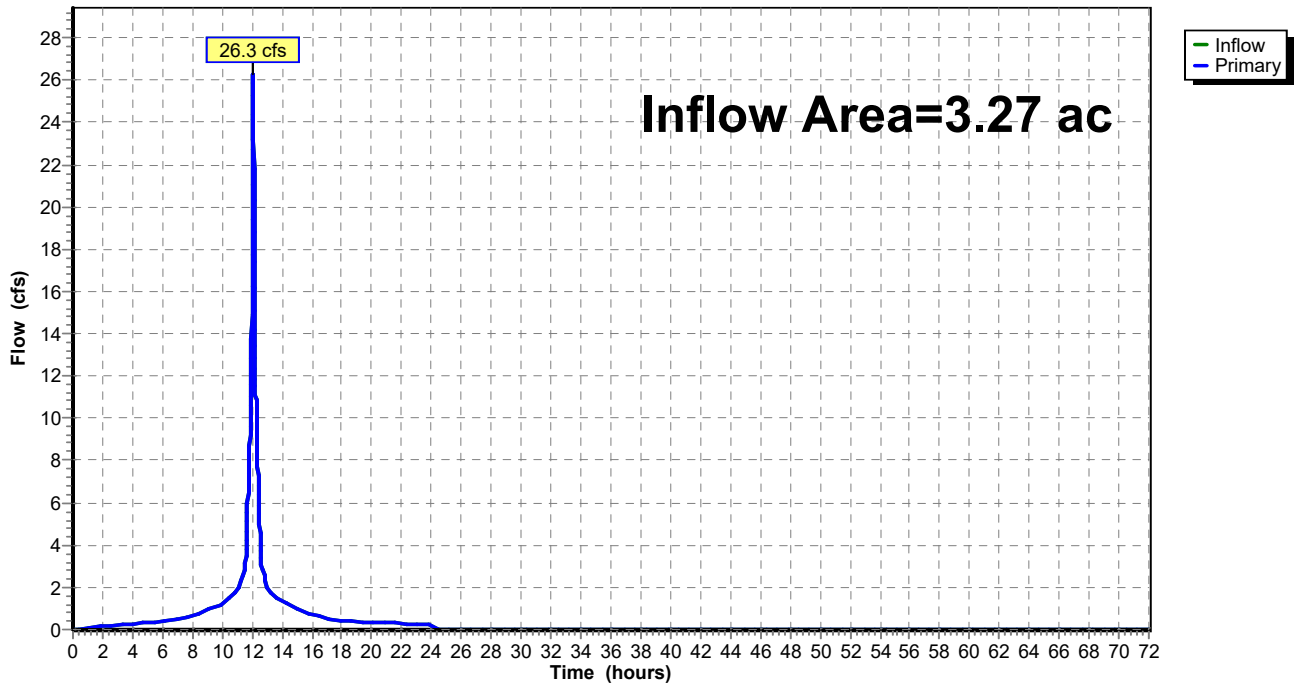
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.27 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 26.3 cfs @ 12.07 hrs, Volume= 2.087 af
Primary = 26.3 cfs @ 12.07 hrs, Volume= 2.087 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 3P: P03 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 3P: P03 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.1		0.1	52.00	0.0		0.0
2.00	0.2		0.2	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.4		0.4	57.00	0.0		0.0
7.00	0.5		0.5	58.00	0.0		0.0
8.00	0.6		0.6	59.00	0.0		0.0
9.00	0.9		0.9	60.00	0.0		0.0
10.00	1.2		1.2	61.00	0.0		0.0
11.00	1.8		1.8	62.00	0.0		0.0
12.00	17.8		17.8	63.00	0.0		0.0
13.00	2.1		2.1	64.00	0.0		0.0
14.00	1.3		1.3	65.00	0.0		0.0
15.00	1.0		1.0	66.00	0.0		0.0
16.00	0.7		0.7	67.00	0.0		0.0
17.00	0.6		0.6	68.00	0.0		0.0
18.00	0.4		0.4	69.00	0.0		0.0
19.00	0.4		0.4	70.00	0.0		0.0
20.00	0.3		0.3	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.3		0.3				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 4P: P04 (Reserved Channel)

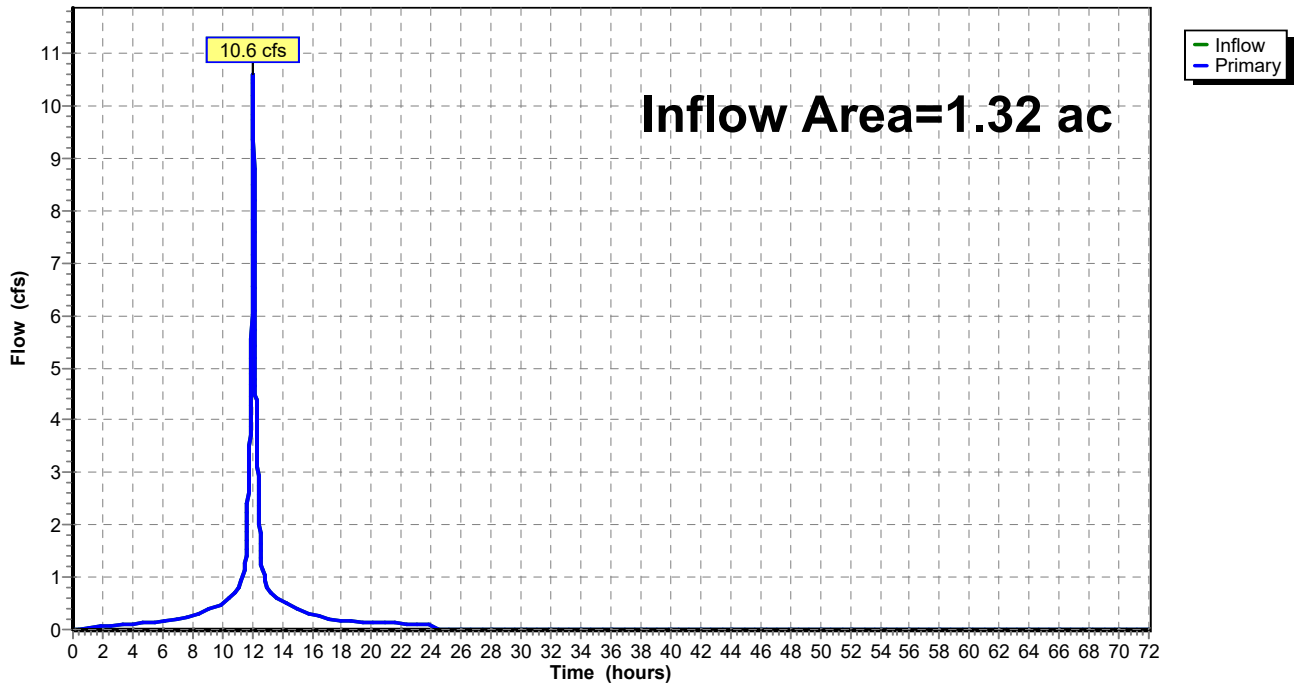
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 1.32 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 10.6 cfs @ 12.07 hrs, Volume= 0.843 af
Primary = 10.6 cfs @ 12.07 hrs, Volume= 0.843 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 4P: P04 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Pond 4P: P04 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.0		0.0	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.1		0.1	54.00	0.0		0.0
4.00	0.1		0.1	55.00	0.0		0.0
5.00	0.1		0.1	56.00	0.0		0.0
6.00	0.2		0.2	57.00	0.0		0.0
7.00	0.2		0.2	58.00	0.0		0.0
8.00	0.3		0.3	59.00	0.0		0.0
9.00	0.4		0.4	60.00	0.0		0.0
10.00	0.5		0.5	61.00	0.0		0.0
11.00	0.7		0.7	62.00	0.0		0.0
12.00	7.2		7.2	63.00	0.0		0.0
13.00	0.8		0.8	64.00	0.0		0.0
14.00	0.5		0.5	65.00	0.0		0.0
15.00	0.4		0.4	66.00	0.0		0.0
16.00	0.3		0.3	67.00	0.0		0.0
17.00	0.2		0.2	68.00	0.0		0.0
18.00	0.2		0.2	69.00	0.0		0.0
19.00	0.2		0.2	70.00	0.0		0.0
20.00	0.1		0.1	71.00	0.0		0.0
21.00	0.1		0.1	72.00	0.0		0.0
22.00	0.1		0.1				
23.00	0.1		0.1				
24.00	0.1		0.1				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 5P: P05 (Reserved Channel)

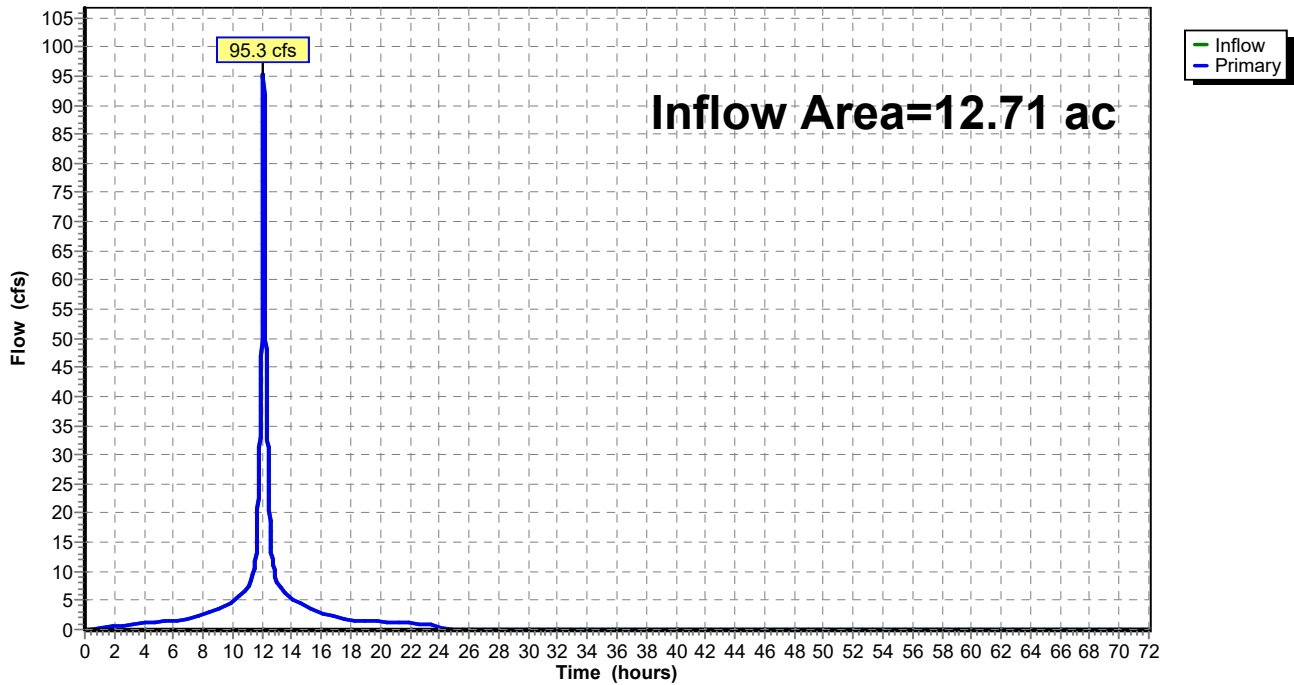
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.71 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 95.3 cfs @ 12.10 hrs, Volume= 8.113 af
Primary = 95.3 cfs @ 12.10 hrs, Volume= 8.113 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 5P: P05 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Pond 5P: P05 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.6		0.6	53.00	0.0		0.0
3.00	0.8		0.8	54.00	0.0		0.0
4.00	1.1		1.1	55.00	0.0		0.0
5.00	1.3		1.3	56.00	0.0		0.0
6.00	1.5		1.5	57.00	0.0		0.0
7.00	2.0		2.0	58.00	0.0		0.0
8.00	2.5		2.5	59.00	0.0		0.0
9.00	3.6		3.6	60.00	0.0		0.0
10.00	4.8		4.8	61.00	0.0		0.0
11.00	7.1		7.1	62.00	0.0		0.0
12.00	56.7		56.7	63.00	0.0		0.0
13.00	8.4		8.4	64.00	0.0		0.0
14.00	5.2		5.2	65.00	0.0		0.0
15.00	3.9		3.9	66.00	0.0		0.0
16.00	2.8		2.8	67.00	0.0		0.0
17.00	2.2		2.2	68.00	0.0		0.0
18.00	1.7		1.7	69.00	0.0		0.0
19.00	1.5		1.5	70.00	0.0		0.0
20.00	1.3		1.3	71.00	0.0		0.0
21.00	1.2		1.2	72.00	0.0		0.0
22.00	1.1		1.1				
23.00	1.0		1.0				
24.00	0.9		0.9				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 6P: P06 (Reserved Channel)

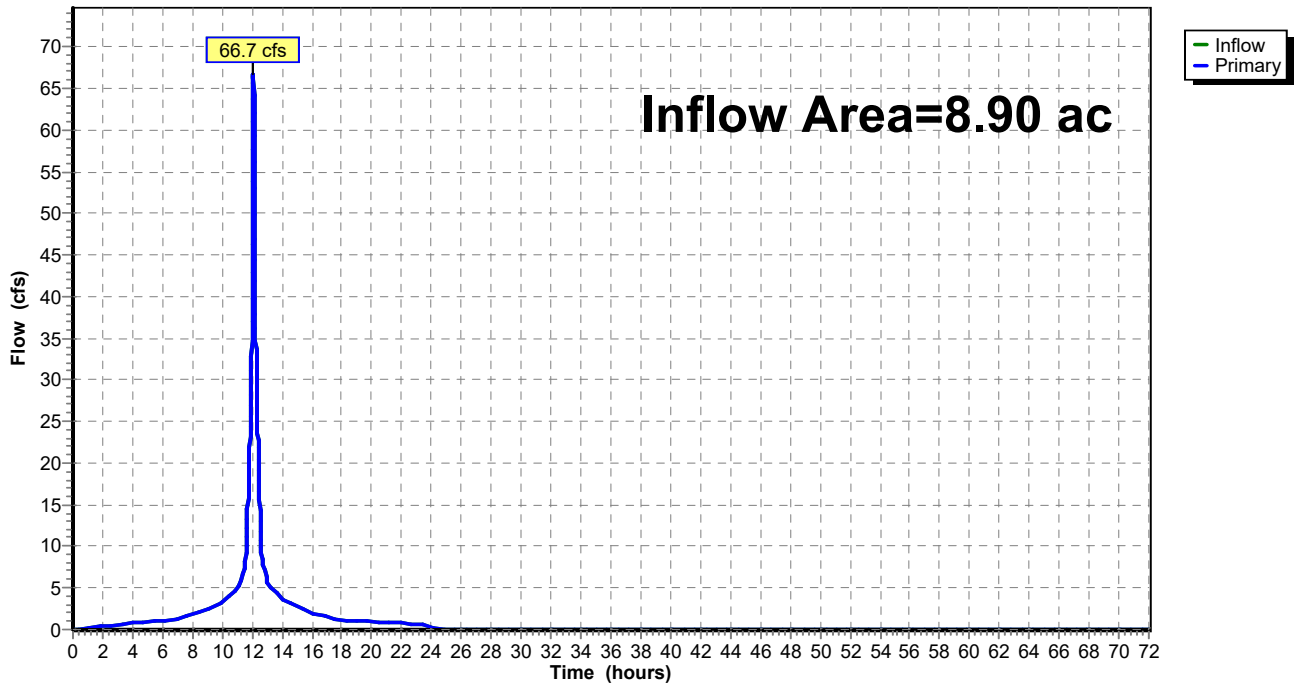
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 8.90 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 66.7 cfs @ 12.10 hrs, Volume= 5.681 af
Primary = 66.7 cfs @ 12.10 hrs, Volume= 5.681 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 6P: P06 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Pond 6P: P06 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.4		0.4	53.00	0.0		0.0
3.00	0.6		0.6	54.00	0.0		0.0
4.00	0.8		0.8	55.00	0.0		0.0
5.00	0.9		0.9	56.00	0.0		0.0
6.00	1.0		1.0	57.00	0.0		0.0
7.00	1.4		1.4	58.00	0.0		0.0
8.00	1.7		1.7	59.00	0.0		0.0
9.00	2.5		2.5	60.00	0.0		0.0
10.00	3.3		3.3	61.00	0.0		0.0
11.00	4.9		4.9	62.00	0.0		0.0
12.00	39.7		39.7	63.00	0.0		0.0
13.00	5.9		5.9	64.00	0.0		0.0
14.00	3.7		3.7	65.00	0.0		0.0
15.00	2.7		2.7	66.00	0.0		0.0
16.00	1.9		1.9	67.00	0.0		0.0
17.00	1.5		1.5	68.00	0.0		0.0
18.00	1.2		1.2	69.00	0.0		0.0
19.00	1.0		1.0	70.00	0.0		0.0
20.00	0.9		0.9	71.00	0.0		0.0
21.00	0.8		0.8	72.00	0.0		0.0
22.00	0.8		0.8				
23.00	0.7		0.7				
24.00	0.6		0.6				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 7P: P07 (Reserved Channel)

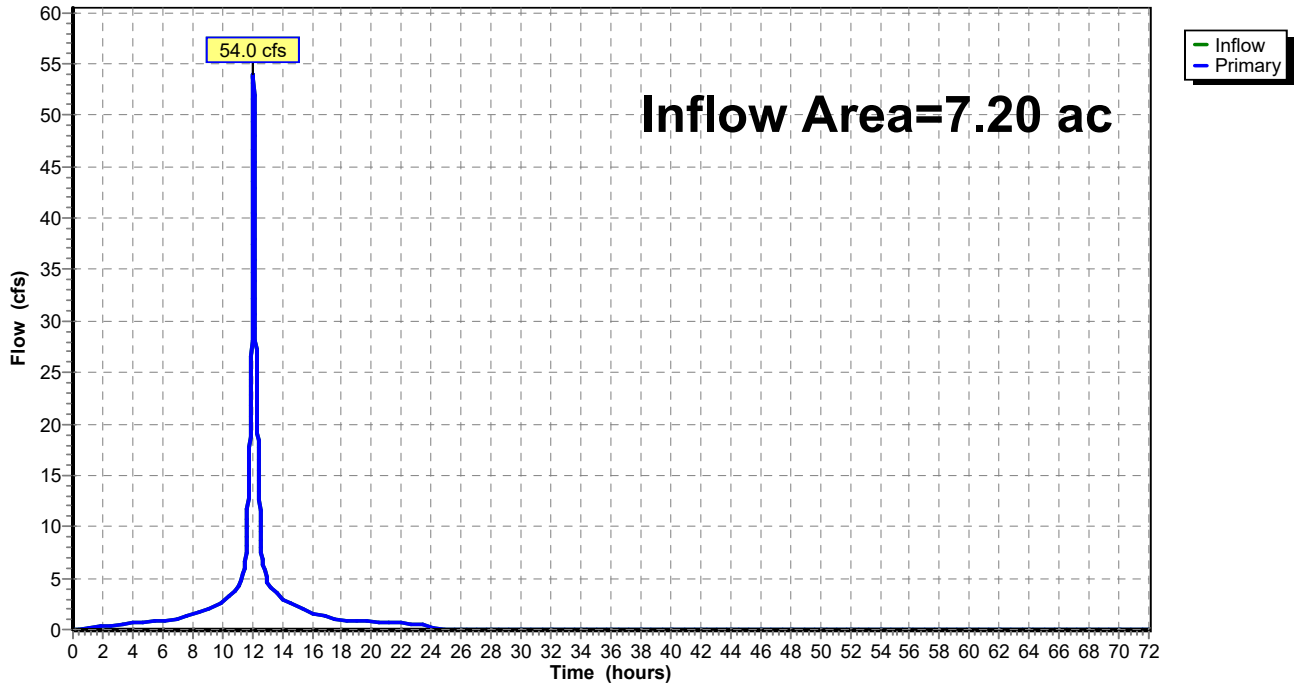
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.20 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 54.0 cfs @ 12.10 hrs, Volume= 4.596 af
Primary = 54.0 cfs @ 12.10 hrs, Volume= 4.596 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 7P: P07 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 7P: P07 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.1		0.1	52.00	0.0		0.0
2.00	0.3		0.3	53.00	0.0		0.0
3.00	0.5		0.5	54.00	0.0		0.0
4.00	0.6		0.6	55.00	0.0		0.0
5.00	0.7		0.7	56.00	0.0		0.0
6.00	0.8		0.8	57.00	0.0		0.0
7.00	1.1		1.1	58.00	0.0		0.0
8.00	1.4		1.4	59.00	0.0		0.0
9.00	2.0		2.0	60.00	0.0		0.0
10.00	2.7		2.7	61.00	0.0		0.0
11.00	4.0		4.0	62.00	0.0		0.0
12.00	32.1		32.1	63.00	0.0		0.0
13.00	4.8		4.8	64.00	0.0		0.0
14.00	3.0		3.0	65.00	0.0		0.0
15.00	2.2		2.2	66.00	0.0		0.0
16.00	1.6		1.6	67.00	0.0		0.0
17.00	1.2		1.2	68.00	0.0		0.0
18.00	0.9		0.9	69.00	0.0		0.0
19.00	0.8		0.8	70.00	0.0		0.0
20.00	0.8		0.8	71.00	0.0		0.0
21.00	0.7		0.7	72.00	0.0		0.0
22.00	0.6		0.6				
23.00	0.6		0.6				
24.00	0.5		0.5				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 8P: P08 (Reserved Channel)

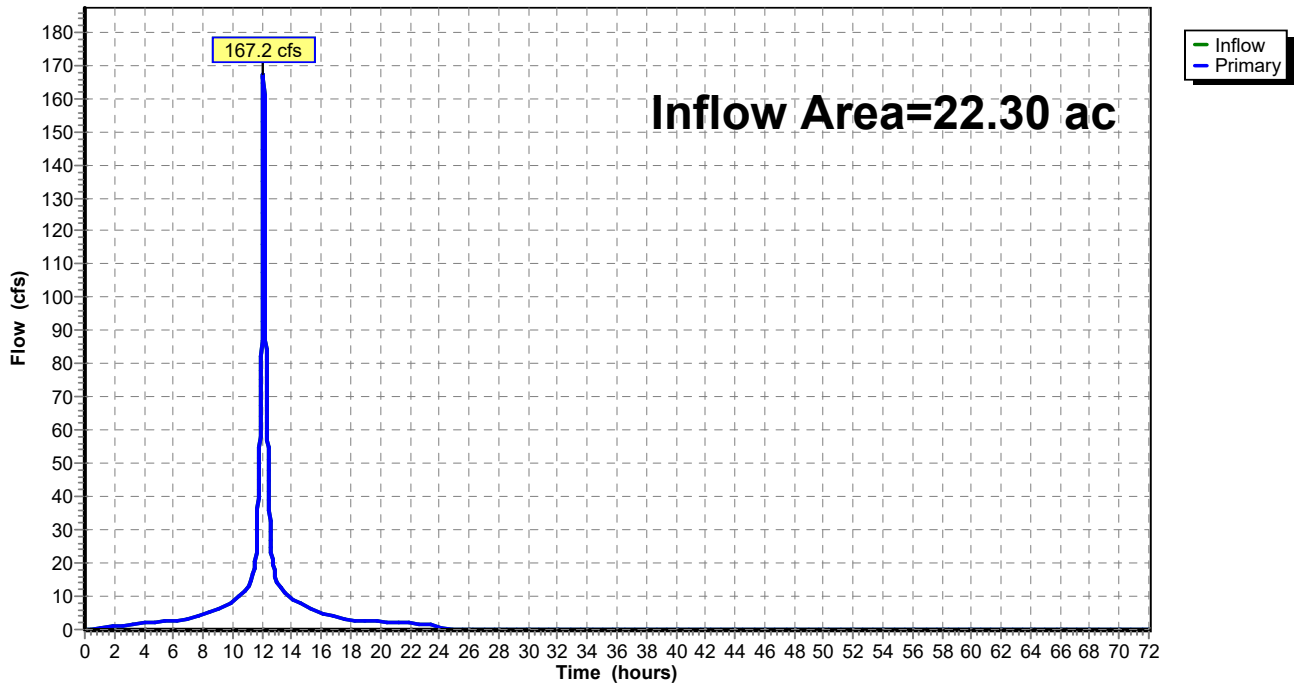
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.30 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 167.2 cfs @ 12.10 hrs, Volume= 14.235 af
Primary = 167.2 cfs @ 12.10 hrs, Volume= 14.235 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 8P: P08 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Hydrograph for Pond 8P: P08 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.4		0.4	52.00	0.0		0.0
2.00	1.0		1.0	53.00	0.0		0.0
3.00	1.5		1.5	54.00	0.0		0.0
4.00	1.9		1.9	55.00	0.0		0.0
5.00	2.3		2.3	56.00	0.0		0.0
6.00	2.6		2.6	57.00	0.0		0.0
7.00	3.4		3.4	58.00	0.0		0.0
8.00	4.3		4.3	59.00	0.0		0.0
9.00	6.3		6.3	60.00	0.0		0.0
10.00	8.3		8.3	61.00	0.0		0.0
11.00	12.4		12.4	62.00	0.0		0.0
12.00	99.5		99.5	63.00	0.0		0.0
13.00	14.7		14.7	64.00	0.0		0.0
14.00	9.2		9.2	65.00	0.0		0.0
15.00	6.9		6.9	66.00	0.0		0.0
16.00	4.8		4.8	67.00	0.0		0.0
17.00	3.8		3.8	68.00	0.0		0.0
18.00	2.9		2.9	69.00	0.0		0.0
19.00	2.6		2.6	70.00	0.0		0.0
20.00	2.3		2.3	71.00	0.0		0.0
21.00	2.1		2.1	72.00	0.0		0.0
22.00	1.9		1.9				
23.00	1.7		1.7				
24.00	1.5		1.5				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 9P: P09 (Reserved Channel)

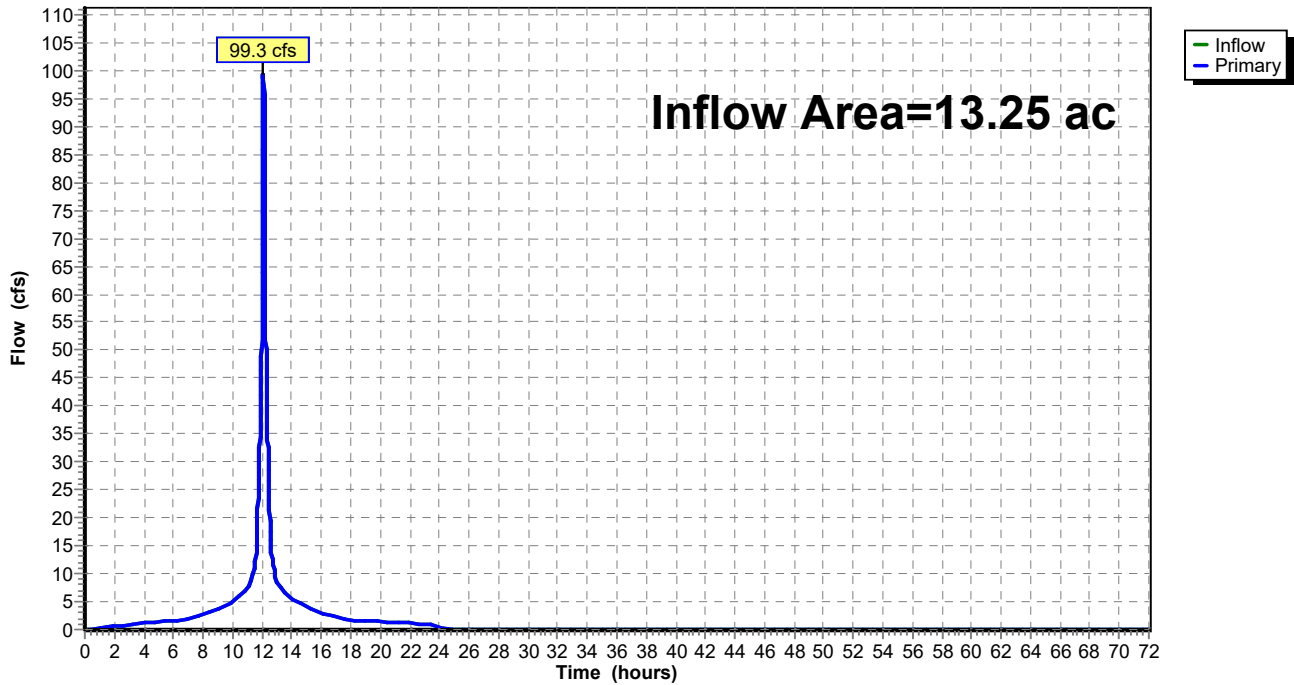
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 13.25 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 99.3 cfs @ 12.10 hrs, Volume= 8.458 af
Primary = 99.3 cfs @ 12.10 hrs, Volume= 8.458 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 9P: P09 (Reserved Channel)

Hydrograph



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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Pond 9P: P09 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.6		0.6	53.00	0.0		0.0
3.00	0.9		0.9	54.00	0.0		0.0
4.00	1.1		1.1	55.00	0.0		0.0
5.00	1.3		1.3	56.00	0.0		0.0
6.00	1.5		1.5	57.00	0.0		0.0
7.00	2.0		2.0	58.00	0.0		0.0
8.00	2.6		2.6	59.00	0.0		0.0
9.00	3.7		3.7	60.00	0.0		0.0
10.00	5.0		5.0	61.00	0.0		0.0
11.00	7.4		7.4	62.00	0.0		0.0
12.00	59.1		59.1	63.00	0.0		0.0
13.00	8.7		8.7	64.00	0.0		0.0
14.00	5.4		5.4	65.00	0.0		0.0
15.00	4.1		4.1	66.00	0.0		0.0
16.00	2.9		2.9	67.00	0.0		0.0
17.00	2.3		2.3	68.00	0.0		0.0
18.00	1.7		1.7	69.00	0.0		0.0
19.00	1.5		1.5	70.00	0.0		0.0
20.00	1.4		1.4	71.00	0.0		0.0
21.00	1.3		1.3	72.00	0.0		0.0
22.00	1.1		1.1				
23.00	1.0		1.0				
24.00	0.9		0.9				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 10P: P10 (Reserved Channel)

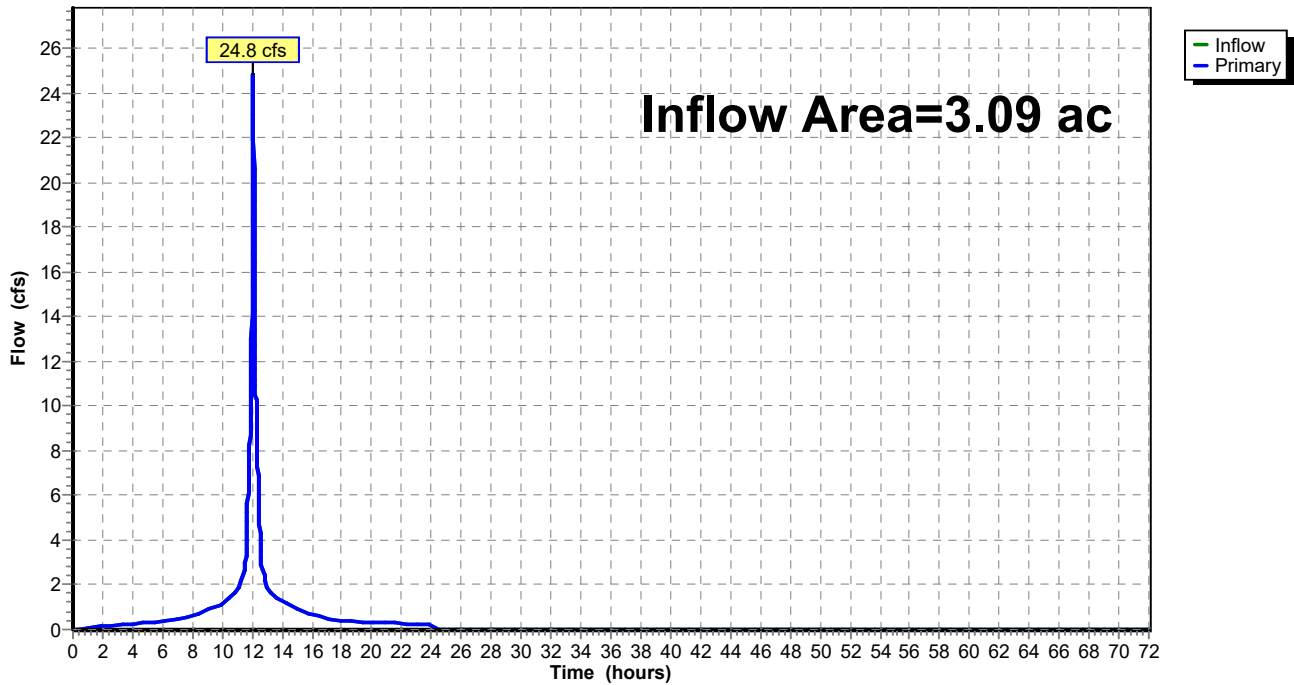
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.09 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 24.8 cfs @ 12.07 hrs, Volume= 1.973 af
Primary = 24.8 cfs @ 12.07 hrs, Volume= 1.973 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 10P: P10 (Reserved Channel)

Hydrograph



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Hydrograph for Pond 10P: P10 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.1		0.1	52.00	0.0		0.0
2.00	0.1		0.1	53.00	0.0		0.0
3.00	0.2		0.2	54.00	0.0		0.0
4.00	0.3		0.3	55.00	0.0		0.0
5.00	0.3		0.3	56.00	0.0		0.0
6.00	0.4		0.4	57.00	0.0		0.0
7.00	0.5		0.5	58.00	0.0		0.0
8.00	0.6		0.6	59.00	0.0		0.0
9.00	0.9		0.9	60.00	0.0		0.0
10.00	1.2		1.2	61.00	0.0		0.0
11.00	1.7		1.7	62.00	0.0		0.0
12.00	16.8		16.8	63.00	0.0		0.0
13.00	2.0		2.0	64.00	0.0		0.0
14.00	1.3		1.3	65.00	0.0		0.0
15.00	0.9		0.9	66.00	0.0		0.0
16.00	0.7		0.7	67.00	0.0		0.0
17.00	0.5		0.5	68.00	0.0		0.0
18.00	0.4		0.4	69.00	0.0		0.0
19.00	0.4		0.4	70.00	0.0		0.0
20.00	0.3		0.3	71.00	0.0		0.0
21.00	0.3		0.3	72.00	0.0		0.0
22.00	0.3		0.3				
23.00	0.2		0.2				
24.00	0.2		0.2				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				

Conley Terminal_Proposed Drainage Areas

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Summary for Pond 11P: P11 (Reserved Channel)

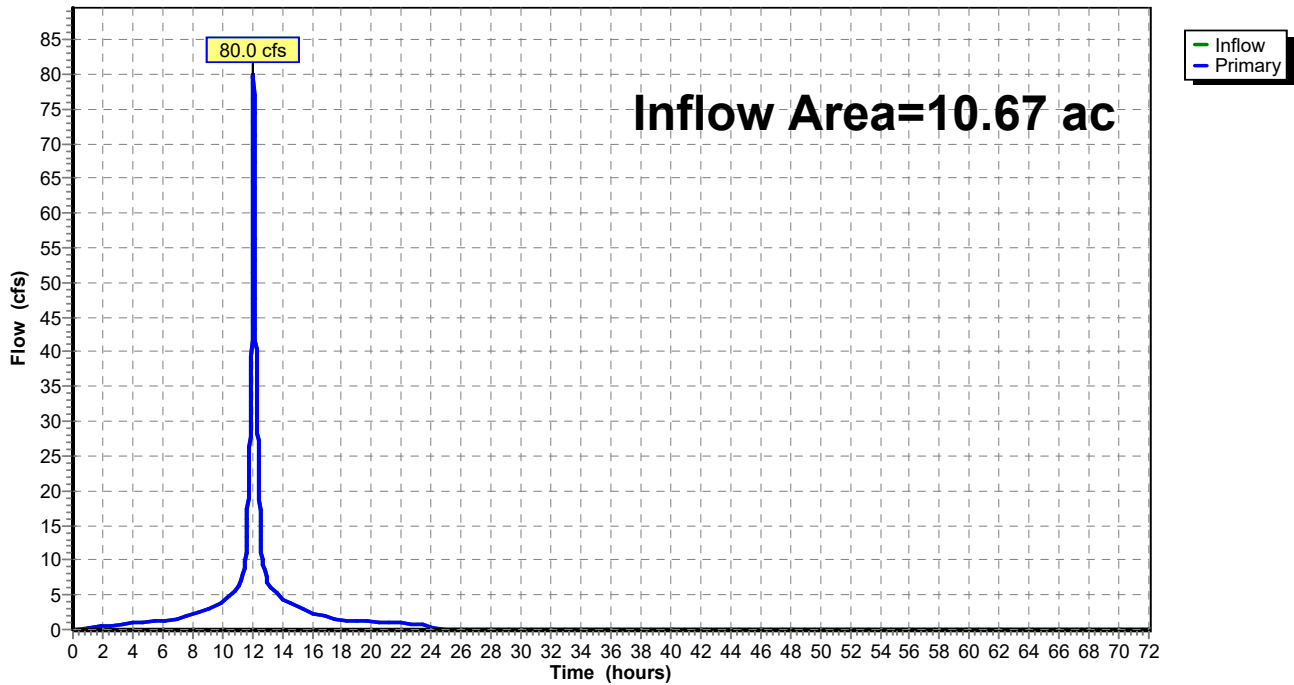
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.67 ac, 100.00% Impervious, Inflow Depth = 7.66" for 100-Year event
Inflow = 80.0 cfs @ 12.10 hrs, Volume= 6.811 af
Primary = 80.0 cfs @ 12.10 hrs, Volume= 6.811 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 11P: P11 (Reserved Channel)

Hydrograph



Conley Terminal_Proposed Drainage Areas

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Appendix 6_Post-Development Watershed Plan

Type III 24-hr 100-Year Rainfall=7.90"

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Hydrograph for Pond 11P: P11 (Reserved Channel)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.0		0.0	51.00	0.0		0.0
1.00	0.2		0.2	52.00	0.0		0.0
2.00	0.5		0.5	53.00	0.0		0.0
3.00	0.7		0.7	54.00	0.0		0.0
4.00	0.9		0.9	55.00	0.0		0.0
5.00	1.1		1.1	56.00	0.0		0.0
6.00	1.2		1.2	57.00	0.0		0.0
7.00	1.6		1.6	58.00	0.0		0.0
8.00	2.1		2.1	59.00	0.0		0.0
9.00	3.0		3.0	60.00	0.0		0.0
10.00	4.0		4.0	61.00	0.0		0.0
11.00	5.9		5.9	62.00	0.0		0.0
12.00	47.6		47.6	63.00	0.0		0.0
13.00	7.0		7.0	64.00	0.0		0.0
14.00	4.4		4.4	65.00	0.0		0.0
15.00	3.3		3.3	66.00	0.0		0.0
16.00	2.3		2.3	67.00	0.0		0.0
17.00	1.8		1.8	68.00	0.0		0.0
18.00	1.4		1.4	69.00	0.0		0.0
19.00	1.2		1.2	70.00	0.0		0.0
20.00	1.1		1.1	71.00	0.0		0.0
21.00	1.0		1.0	72.00	0.0		0.0
22.00	0.9		0.9				
23.00	0.8		0.8				
24.00	0.7		0.7				
25.00	0.0		0.0				
26.00	0.0		0.0				
27.00	0.0		0.0				
28.00	0.0		0.0				
29.00	0.0		0.0				
30.00	0.0		0.0				
31.00	0.0		0.0				
32.00	0.0		0.0				
33.00	0.0		0.0				
34.00	0.0		0.0				
35.00	0.0		0.0				
36.00	0.0		0.0				
37.00	0.0		0.0				
38.00	0.0		0.0				
39.00	0.0		0.0				
40.00	0.0		0.0				
41.00	0.0		0.0				
42.00	0.0		0.0				
43.00	0.0		0.0				
44.00	0.0		0.0				
45.00	0.0		0.0				
46.00	0.0		0.0				
47.00	0.0		0.0				
48.00	0.0		0.0				
49.00	0.0		0.0				
50.00	0.0		0.0				



2

OPERATION AND MAINTENANCE PLAN



OPERATION AND MAINTENANCE PLAN CONLEY TERMINAL NEW IN-GATE & OUT-GATE FACILITIES SOUTH BOSTON, MASSACHUSETTS

Existing Conditions

The project site is located at the Massachusetts Port Authority's (Massport) Paul W. Conley Container Terminal in South Boston (Suffolk County), Massachusetts. The terminal and project site are bordered by the Boston Harbor Reserved Channel to the north and E 1st Street and Harbor Island Causeway to the south. The work being performed for this project will be contained to this area and no other sites are included for this project. This site is owned by Massport and no other entities.

The Paul W. Conley Container Terminal is located south of the Boston Harbor Reserved Channel and covers approximately 100 acres. There are two active ship berths along the Reserved Channel served by six ship-to-shore cranes. An additional ship berth is currently under construction on the western side of the terminal and is anticipated to be operational in fall 2021. Import and export containers are stacked and handled by rubber tire gantry cranes (RTGs), which move parallel to the berth. Containers are transported from the stacks to the ship (and vice versa) via yard tractor trailer trucks and from the street to the stacks (and vice versa) via street trucks. Inbound (export) and outbound (import) containers pass through the terminal gate complex, which is on the south side of the Terminal, via the entrance/exit gate at the corner of Farragut Road and East First Street. Conley Terminal is virtually 100% impervious pavement and buildings.

Site topography within the project corridor is generally sloping northerly from the curb line of the Dedicated Freight Corridor towards the Reserved Channel. Surface gradients are generally flat, indicative of prior and current marine/industrial land uses. A portion of the proposed freight corridor will be located within the 100-ft Buffer to the Reserved Channel, and as such appropriate temporary erosion control measures will be utilized throughout the project construction duration.

Proposed Design

The overall Conley Terminal Improvements program consists of three main elements:

- Dedicated Freight Corridor
- In & Out Gate Processing Areas
- Berth 11 & 12 Reconstruction

This Stormwater Runoff Analysis addresses the first two elements which are presently undergoing final design and permitting, and which will be constructed in the 2021-2022 timeframe. The third element (Berth 11 & 12 Reconstruction) is currently undergoing its separate design and permitting process and is scheduled to follow a similar construction schedule to the first two elements of 2021-2022 timeframe.

Dedicated Freight Corridor (DFC)

The DFC is a 5000 FT long roadway that will eliminate the temporary roadway that currently exists and replaces it with a proposed final condition roadway. This roadway will connect trucks entering and exiting Conley Terminal to Summer Street to the west. The roadway will separate cars from truck traffic as well as directing trucks to the In Gate and Out Gate systems.



The proposed DFC route begins at the entrance to Conley Terminal and will resurface the existing roadway for approximately 500 FT. This portion of roadway will also have a new island installed on the northeastern side, separating the roadway from the Out-Gate facility. The roadway continues with a resurfacing and widening the existing roadway for approximately 1000 FT. The Out-Gate OCR facility will be constructed to the north of this area. For this segment of roadway, the existing profile grades will be maintained.

The next major portion of roadway will be newly constructed roadway, that will be placed on existing asphalt which was used for parking and side roads. This will vary between partial and full depth reconstruction of the existing paved surfaces and extend for approximately 1100 FT. On the southern side, the In-Gate OCR will be constructed and on the northern side an existing parking lot will be restriped and expanded. The profile grades in this area will approximately follow existing grades, while being modified enough to promote drainage.

The final leg of the roadway will resurface the existing roadway with partial full depth construction. This portion of roadway will extend for approximately 2100 FT leading in to the In-Gate facility. The profile grades in this area will approximately follow existing grades, while being modified enough to promote drainage.

In/Out Gate Facilities

Each facility consists of two areas, the OCR facility and the Gate facility. The gate facilities will replace the existing asphalt with concrete pads. On these pads a series of structures will be placed where container trucks will drive through to enter or exit the Terminal. These structures will not have a roof system. Below is a description of approximately where these gate facilities are located:

- The In-Gate OCR facility is located approximately 2600 FT from the entrance to Conley Terminal
- The In-Gate facility is located approximately 2400 FT from the In-Gate OCR facility.
- The Out-Gate OCR facility is located approximately 1600 FT from the entrance to Conley Terminal
- The Out-Gate facility is located just east of the Conley Terminal entrance. Each facility will be constructed on a concrete slab with asphalt leading into these areas and are adjacent to the Dedicated Freight Corridor.

Berth 11 & 12 Reconstruction

As noted above, this is a separate project and is running along side the New Conley In-Gate & Out-Gate Facilities project. This project will reconstruct portions of Berth 11 and 12 in order to promote drainage and revitalize the asphalt in the area. This will also extend the container stacks. As part of this project, the stormwater treatment required for the New Conley In-Gate & Out-Gate Facilities will be installed under the funding for this contract.



SEDIMENTATION CONTROLS

The first phase of construction will consist of the placement of sedimentation controls in accordance with the detail and at the location indicated on the plans. No further construction activity will take place until the sedimentation controls are inspected and approved. No encroachment or alteration shall occur beyond the erosion control barriers. Erosion control barriers shall be maintained and replaced, if necessary, throughout the course of construction.

SITE CONSTRUCTION

Exposed earthworks onsite are to be kept to a minimum. Prior to construction the proposed location of earth stockpiles shall be shown on a plan and shall be approved by the Engineer. Stockpiles that are to be left for more than fourteen (14) days shall be shaped and secured by siltation controls around the downstream perimeter and shall be stabilized by temporary seeding or netting. The site grading operation will then commence. Topsoil on the site will be stockpiled separately and the pile stabilized. The site will be graded to subgrade with the excess soil stockpiled in the designated areas and the utilities installed.

All unvegetated areas, that will remain unvegetated for greater than 14 days should be mulched or seeded within 7 days of their grading. The perimeter sedimentation controls at the stockpiles should be in place at the end of each day and before rain events.

During the construction of the drainage system, care must be taken to prevent sedimentation from entering the system. Drainage pipes in open excavations shall not remain open overnight. Compost filter tubes shall be staked around the catch basins and/or a woven geotextile material shall be placed in the catch basins until the binder course has been placed. Any silt, sand or debris, which may accumulate around the catch basins, shall be removed after every rainstorm. Catch basins shall be set to binder grade until immediately prior to placement of the top course, at which time they will be set at final grade. The drainage system shall be cleaned prior to acceptance.

Work shall commence as soon as practical on the perimeter disturbed areas not to be paved. Four inches (4") of topsoil is to be placed in these areas and the areas hydroseeded. All areas shall be stabilized within sixty (60) days of disturbance. When weather conditions do not permit stabilization by seeding, hay mulch, straw mats, jute netting or other approved means shall be used for temporary stabilization.

INSPECTION AND MAINTENANCE

Prior to construction, the Contractor shall formulate a schedule for inspection and maintenance of the erosion control measures. This schedule shall establish, at a minimum, the weekly inspections of the sedimentation controls, stockpiles, catch basins, unstabilized areas within the site and a report of any required maintenance. The schedule will also appoint an individual who will be responsible for performing the weekly inspections.

During the weekly inspection, and at any time during the course of construction, the Engineer, the Owner or the individual responsible for the erosion control measures may direct the



Contractor to take immediate action to correct a deficiency or to increase the erosion control measures.

ADDITIONAL REQUIREMENTS

The Contractor shall employ measures to control dust during construction. All debris shall be properly contained and disposed of.

Summer Street shall be swept clean of any soils tracked onto the pavement from vehicles exiting the site.

A supply of compost filter tubes and siltation fence shall be kept on site to provide for additional siltation control, as may be required. Any construction equipment observed leaking or dripping oil shall be removed from the site. No construction equipment shall be re-fueled within 100 feet of any resource areas.

Temporary grass stabilization shall be applied at rate of 4-pounds/1,000 sf. and conform to the following mix summarized in Table 1.

Table 1 – Seed Mixture

SEED	% WEIGHT	
	<u>Min.</u>	<u>Max.</u>
Winter Rye	80	
Red Fescue (Creeping)	4	
Perennial Rye Grass	3	
Red Clover	3	
Other Crop Grass	0.5	
Noxious Weed Seed		0.5
Inert Matter		1

CONSTRUCTION SCHEDULE

1. Prior to construction, compost filter tubes and siltation fence will be placed at the limits of work, as indicated on the site drawings.
2. The limits of any clearing and grubbing shall be delineated in the field.
3. The construction area will then be cleared and grubbed with the topsoil stockpiled on site. Site excavation work will then commence.
4. The site utility work will then commence.
5. The drainage systems are to be completed prior to any site paving.
6. Additional siltation fence or compost filter tubes will be added as construction proceeds where required to control erosion. Sedimentation controls shall be installed along the downhill side of all soil stockpiles.



7. Catch basins shall have either compost filter tubes placed around the grate or have a geotextile bag or silt sack installed until the gates/roadway is paved.
8. The pavement subgrade will then be graded, and the gravel and the bituminous base course placed. This shall be completed as soon as practical after the site clearing.
9. All disturbed areas not already stabilized will then be covered with a minimum of 4-inches of topsoil and seeded.
10. The drainage system shall be completely operational prior to any paving or the building roof drains being installed.
11. All drainage structures will be cleaned upon completion of construction.
12. The sedimentation controls shall be removed after the site has stabilized.

BMP MAINTENANCE SCHEDULE FOR GATES FACILITIES

1. Inspect catch basins quarterly if all tributary areas are stabilized with vegetation or monthly if not. Clean out if more than 1/4 full of sediment (1 foot deep in a 4-foot sump). Inspect and clean as necessary after intense rainfall and as soon as practical after winter sanding.
2. Inspect the hydrodynamic treatment chambers quarterly. Follow the Manufacturer's recommendations for maintenance.
3. Keep all pervious site areas stabilized at all times. Keep any stockpiled earth covered. Remove leaves and trimmings from site.
4. Sweep parking areas and roadways twice annually, once after winter sanding season is over, the second time during the fall after the foliage has fallen.
5. It is anticipated that **Massport** will be the owner and responsible for the operation and maintenance of the freight corridor and gates areas.



3

SOILS MAP

Soil Map—Norfolk and Suffolk Counties, Massachusetts
(Conley Gates - Dedicated Freight Corridor)







































Soil Map may not be valid at this scale.

Map Scale: 1:10,100 if printed on A landscape (11" x 8.5") sheet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



MAP LEGEND

 Area of Interest (AOI)	 Spoil Area
 Soil Map Unit Polygons	 Stony Spot
 Soil Map Unit Lines	 Very Stony Spot
 Soil Map Unit Points	 Wet Spot
 Special Point Features	 Other
 Blowout	 Special Line Features
 Borrow Pit	Water Features
 Clay Spot	 Streams and Canals
 Closed Depression	Transportation
 Gravel Pit	 Rails
 Gravelly Spot	 Interstate Highways
 Landfill	 US Routes
 Lava Flow	 Major Roads
 Marsh or swamp	 Local Roads
 Mine or Quarry	Background
 Miscellaneous Water	 Aerial Photography
 Perennial Water	
 Rock Outcrop	
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

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: Norfolk and Suffolk Counties, Massachusetts
Survey Area Data: Version 16, Jun 11, 2020

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

Date(s) aerial images were photographed: Sep 11, 2019—Oct 5, 2019

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
1	Water	48.0	21.8%
325B	Newport silt loam, 3 to 8 percent slopes	5.9	2.7%
603	Urban land, wet substratum, 0 to 3 percent slopes	140.8	63.8%
610	Beaches, sand	0.1	0.0%
654	Udorthents, loamy	6.9	3.1%
655	Udorthents, wet substratum	19.0	8.6%
Totals for Area of Interest		220.7	100.0%



4

PRE-DEVELOPMENT WATERSHED PLAN



MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: M560-C2
LOCATION CODE: 4300

PROJECT SUBMISSION PHASE:
DRAINAGE REPORT

REVISIONS:

REV. NO.	DATE	DESCRIPTION	BY

PRIMARY:



CONSULTANT:

HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE
& OUT-GATE FACILITIES

SHEET TITLE:

EXISTING DRAINAGE AREAS

DISCIPLINE:

CIVIL

DRAWN BY:

CPD

CHECKED BY:

APPROVED BY:

SCALE:

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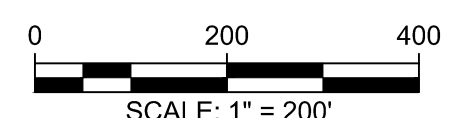
DATE:

DEC 2020

SHEET NUMBER:



EXISTING WATERSHED AREAS	
WATERSHED NO.	AREA (AC)
E01	2.32
E02	3.36
E03	2.20
E04	1.29
E05	1.32
E06	12.71
E07	8.75
E08	7.20
E09	22.30
E10	13.25
E11	3.09
E12	10.67
TOTAL AREA	88.46





5

POST-DEVELOPMENT WATERSHED PLAN



PROPOSED WATERSHED AREAS	
WATERSHED NO.	AREA (AC)
P01	2.32
P02	2.64
P03_04	3.27
P05	1.32
P06	12.71
P07	8.90
P08	7.20
P09	22.30
P10	13.25
P11	3.09
P12	10.67
TOTAL AREA	87.67



MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
DRAINAGE REPORT

REVISIONS:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET, SUITE 300
FRANKLIN, MA 02038
(781) 277-6001

CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700

PROJECT NUMBER AND TITLE:
M560-C2
NEW CONLEY IN-GATE & OUT-GATE FACILITIES

SHEET TITLE:
PROPOSED DRAINAGE AREAS

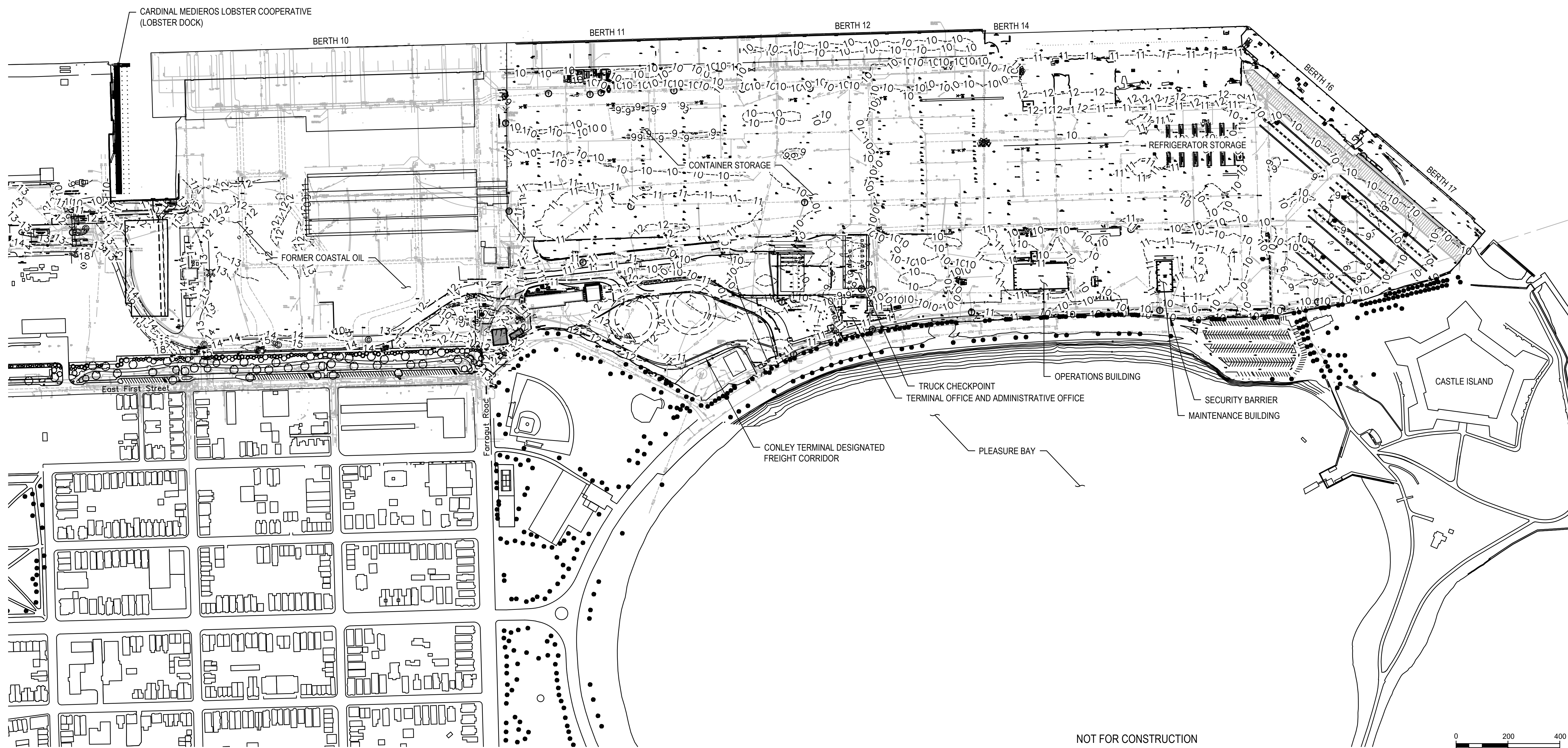
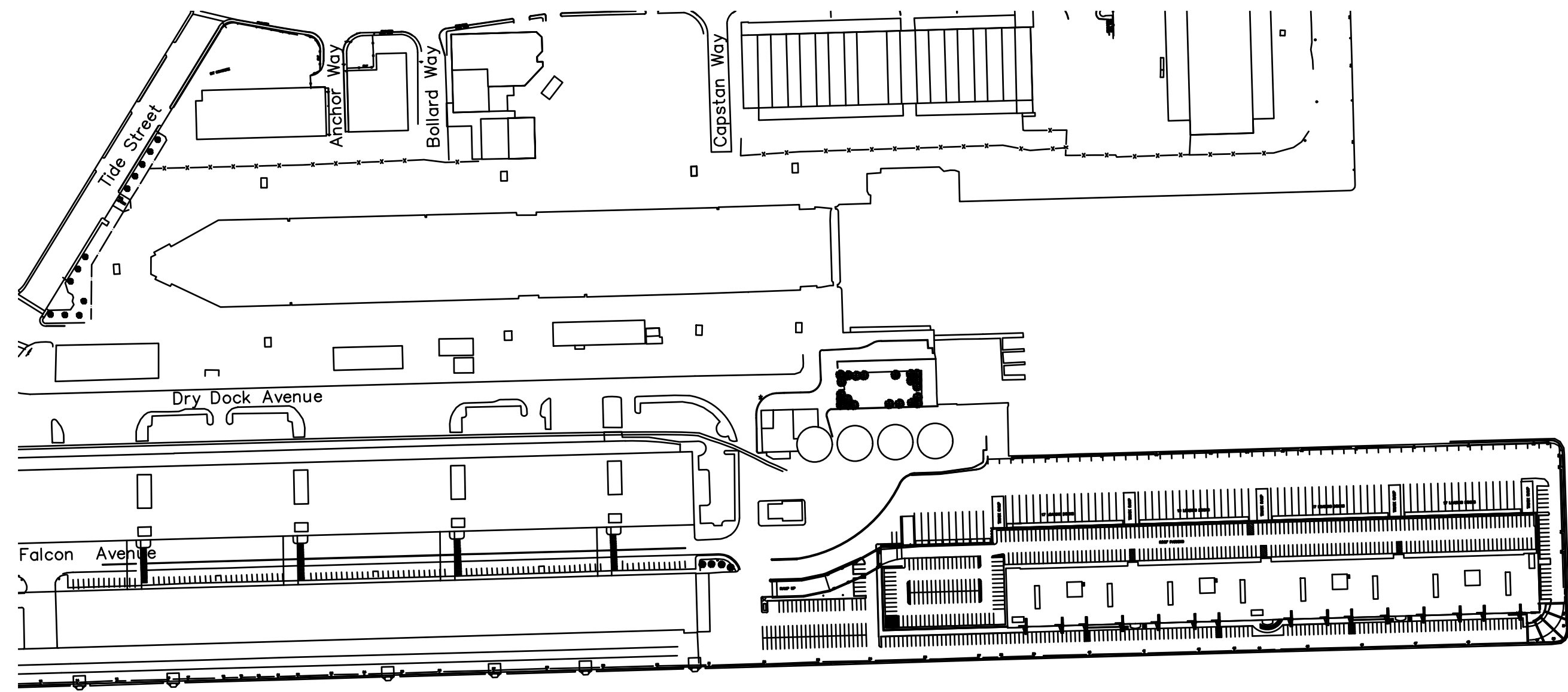
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CIVIL

DRAWN BY: CPD	CHECKED BY:	APPROVED BY:
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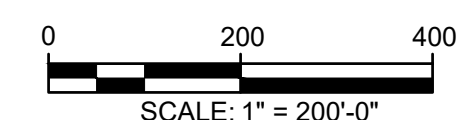
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SHEET NUMBER:

DRAWINGS



NOT FOR CONSTRUCTION



MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
60% DESIGN

REGISTRATION STAMP:



KEY PLAN:



REVISIONS:

REV NO.	DATE	DESCRIPTION	BY:

PRIMARY:



CONSULTANT:

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE &
OUT-GATE FACILITIES

SHEET TITLE:

CONLEY TERMINAL SITE PLAN

DRAWING PHASE (EXISTING)

DISCIPLINE:

CIVIL

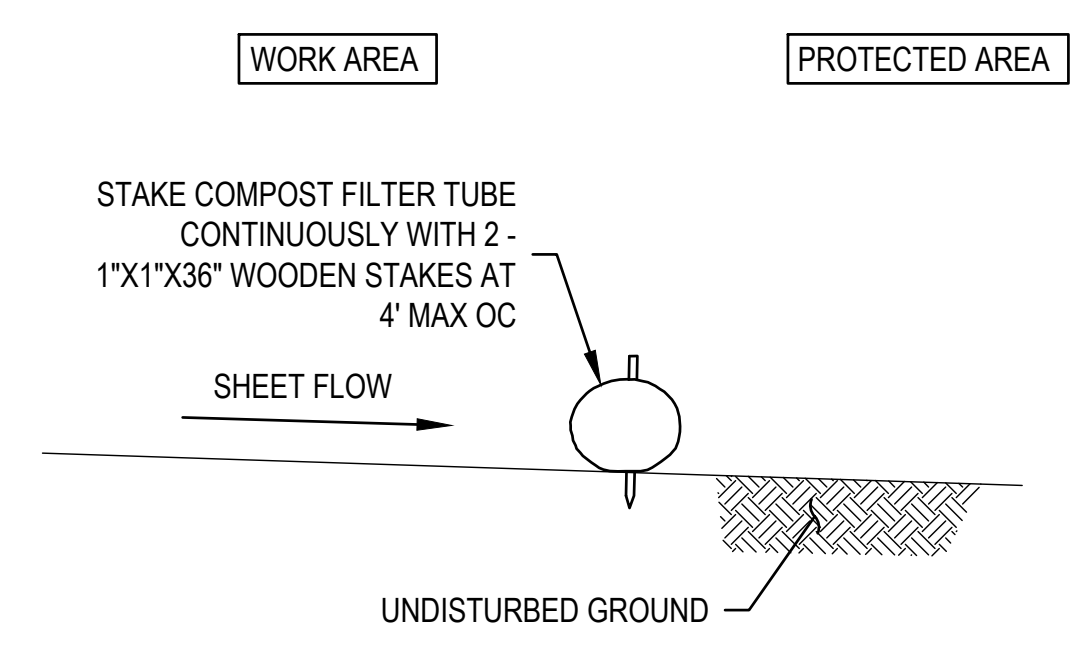
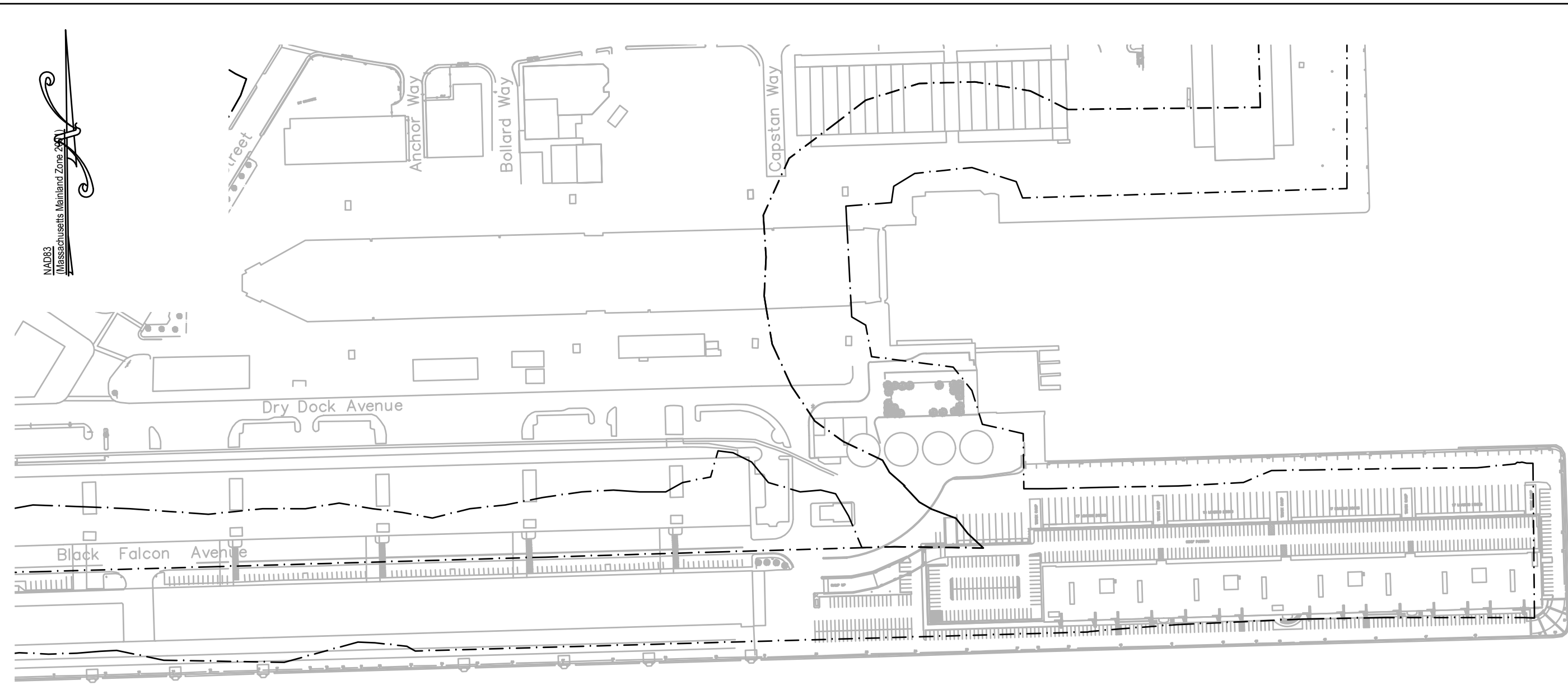
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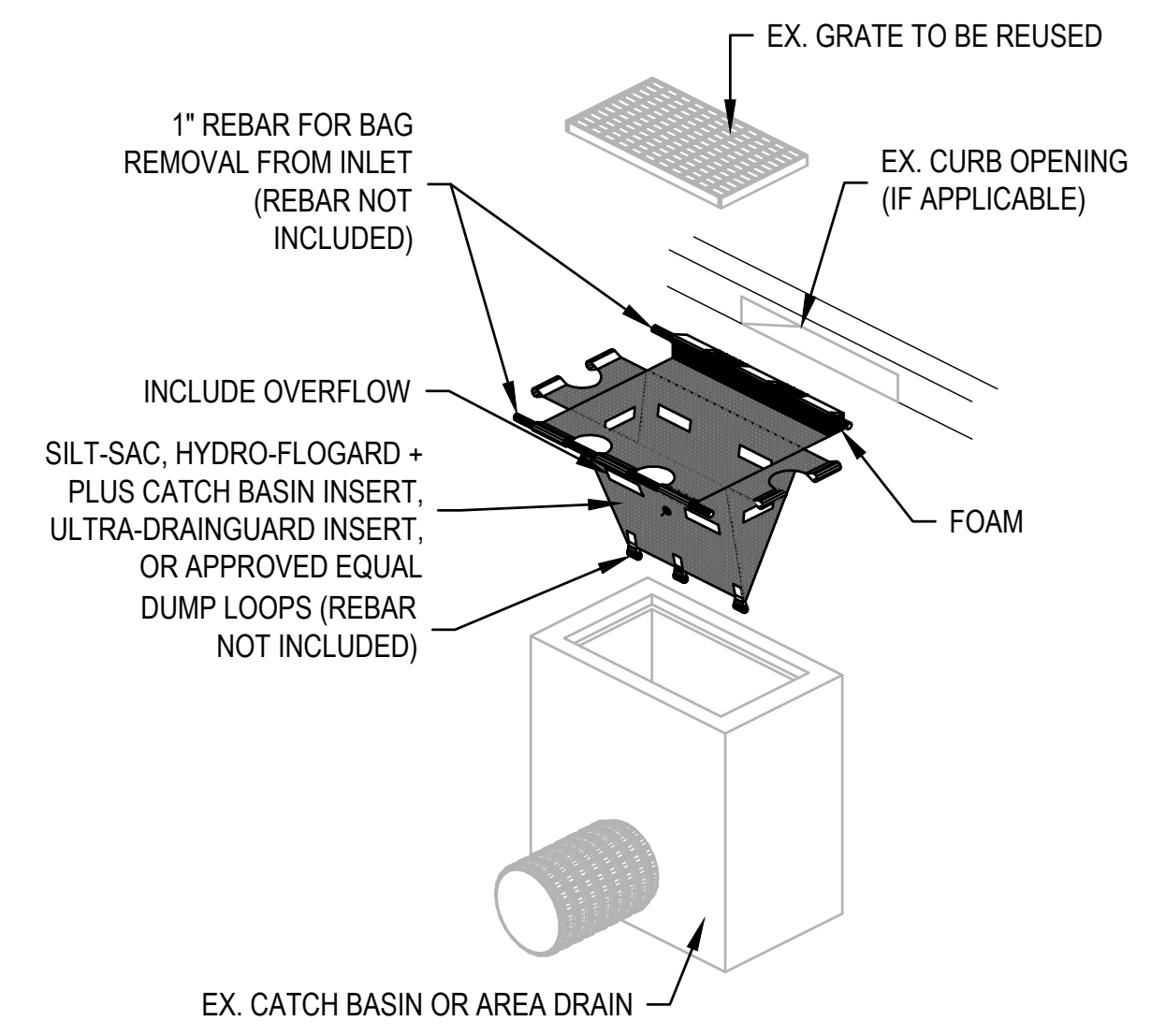
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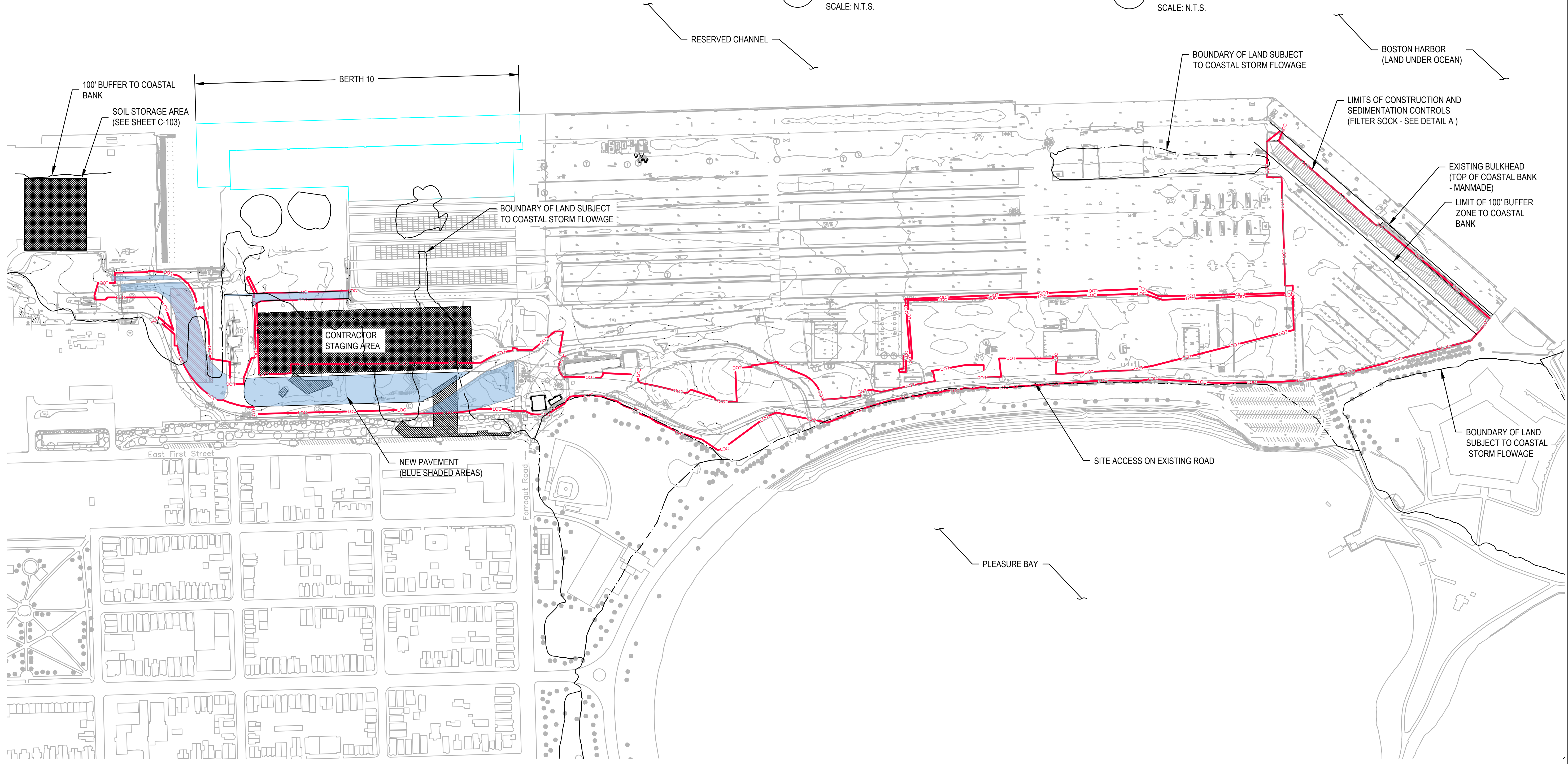
C-101



A COMPOST FILTER TUBE DETAIL
SCALE: N.T.S.



B INLET PROTECTION CATCH BASIN W/ SILTATION SACK
SCALE: N.T.S.



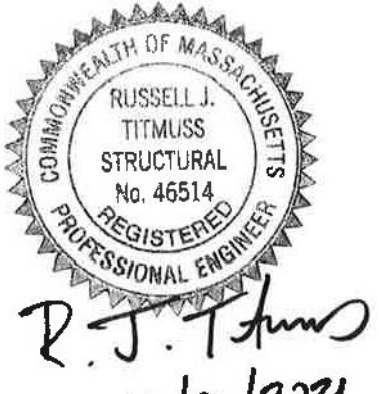
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
CONTRACT DOCUMENTS

REGISTRATION STAMP:



R. J. Titmuss
4/9/2021

KEY PLAN:



REVISIONS:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:



CONSULTANT:

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN GATE & OUT GATE FACILITIES

SHEET TITLE:
**LIMIT OF CONSTRUCTION
LOCATION OF PERIMETER EROSION
AND SEDIMENTATION CONTROLS
DRAWING PHASE (PROPOSED)**

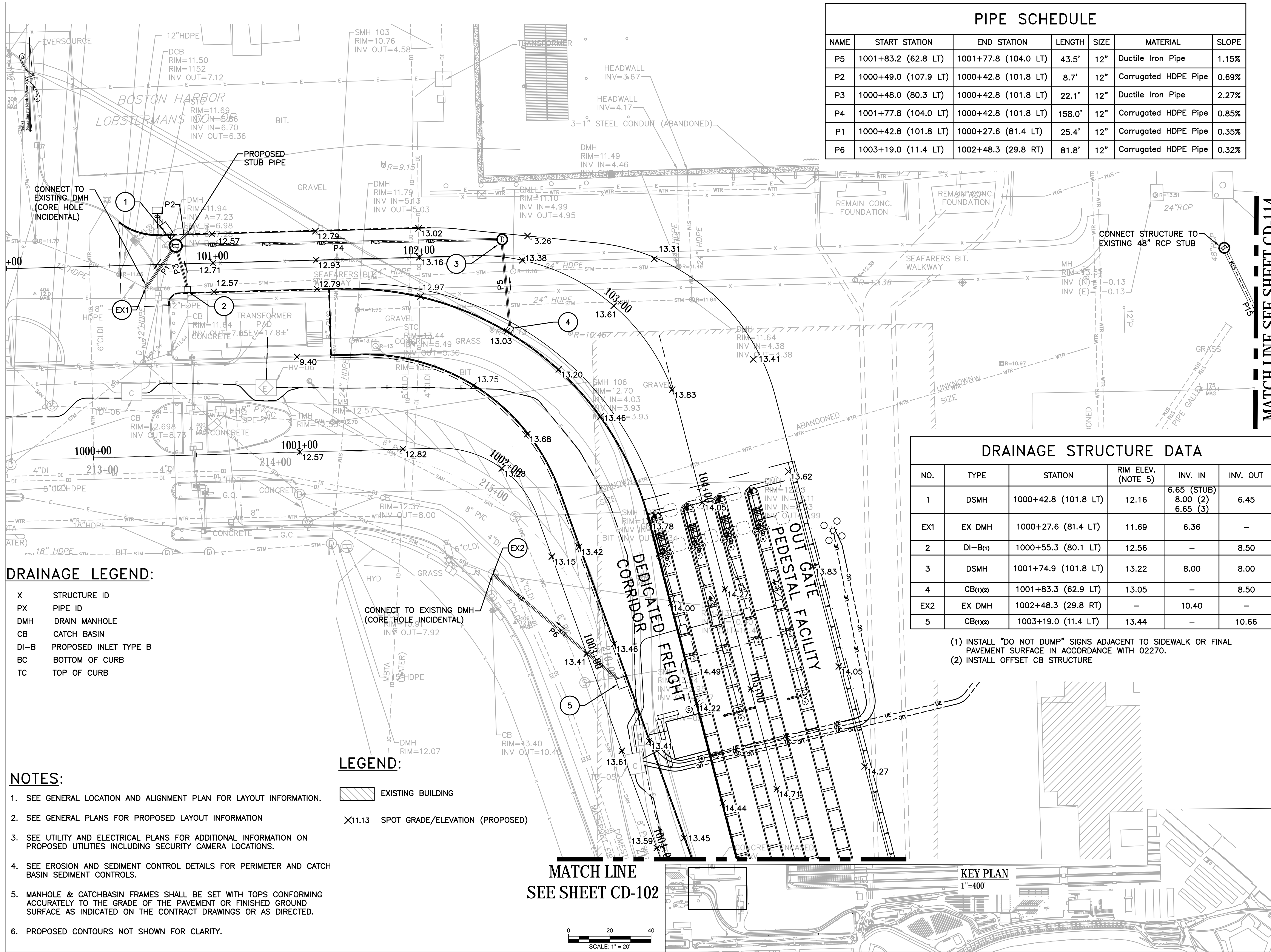
DISCIPLINE:
CIVIL

DRAWN BY: **JSF** CHECKED BY: **CRB** APPROVED BY: **RJT**

SCALE: **AS NOTED** DATE: **MARCH 2021**

SHEET NUMBER:

C-102



PIPE SCHEDULE						
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P5	1001+83.2 (62.8 LT)	1001+77.8 (104.0 LT)	43.5'	12"	Ductile Iron Pipe	1.15%
P2	1000+49.0 (107.9 LT)	1000+42.8 (101.8 LT)	8.7'	12"	Corrugated HDPE Pipe	0.69%
P3	1000+48.0 (80.3 LT)	1000+42.8 (101.8 LT)	22.1'	12"	Ductile Iron Pipe	2.27%
P4	1001+77.8 (104.0 LT)	1000+42.8 (101.8 LT)	158.0'	12"	Corrugated HDPE Pipe	0.85%
P1	1000+42.8 (101.8 LT)	1000+27.6 (81.4 LT)	25.4'	12"	Corrugated HDPE Pipe	0.35%
P6	1003+19.0 (11.4 LT)	1002+48.3 (29.8 RT)	81.8'	12"	Corrugated HDPE Pipe	0.32%

DRAINAGE STRUCTURE DATA					
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
1	DSMH	1000+42.8 (101.8 LT)	12.16	6.65 (STUB) 8.00 (2) 6.65 (3)	6.45
EX1	EX DMH	1000+27.6 (81.4 LT)	11.69	6.36	-
2	DI-B(1)	1000+55.3 (80.1 LT)	12.56	-	8.50
3	DSMH	1001+74.9 (101.8 LT)	13.22	8.00	8.00
4	CB(1)(2)	1001+83.3 (62.9 LT)	13.05	-	8.50
EX2	EX DMH	1002+48.3 (29.8 RT)	-	10.40	-
5	CB(1)(2)	1003+19.0 (11.4 LT)	13.44	-	10.66

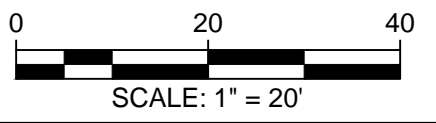
- (1) INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.
- (2) INSTALL OFFSET CB STRUCTURE

- DRAINAGE LEGEND:**
- X STRUCTURE ID
 - PX PIPE ID
 - DMH DRAIN MANHOLE
 - CB CATCH BASIN
 - DI-B PROPOSED INLET TYPE B
 - BC BOTTOM OF CURB
 - TC TOP OF CURB

- NOTES:**
1. SEE GENERAL LOCATION AND ALIGNMENT PLAN FOR LAYOUT INFORMATION.
 2. SEE GENERAL PLANS FOR PROPOSED LAYOUT INFORMATION
 3. SEE UTILITY AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON PROPOSED UTILITIES INCLUDING SECURITY CAMERA LOCATIONS.
 4. SEE EROSION AND SEDIMENT CONTROL DETAILS FOR PERIMETER AND CATCH BASIN SEDIMENT CONTROLS.
 5. MANHOLE & CATCHBASIN FRAMES SHALL BE SET WITH TOPS CONFORMING ACCURATELY TO THE GRADE OF THE PAVEMENT OR FINISHED GROUND SURFACE AS INDICATED ON THE CONTRACT DRAWINGS OR AS DIRECTED.
 6. PROPOSED CONTOURS NOT SHOWN FOR CLARITY.

- LEGEND:**
- EXISTING BUILDING
 - X11.13 SPOT GRADE/ELEVATION (PROPOSED)

MATCH LINE
SEE SHEET CD-102



KEY PLAN
1" = 400'

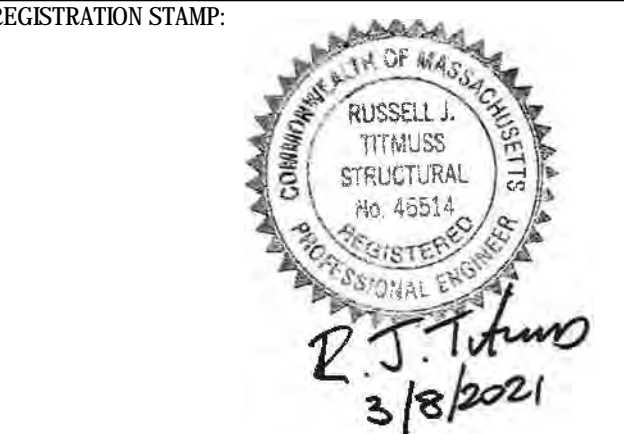


MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN



REGISTRATION STAMP:

KEY PLAN:

REVISIONS:

REV NO.	DATE	DESCRIPTION	BY:



CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE & OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING
PLANS - 1 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:
CD-101



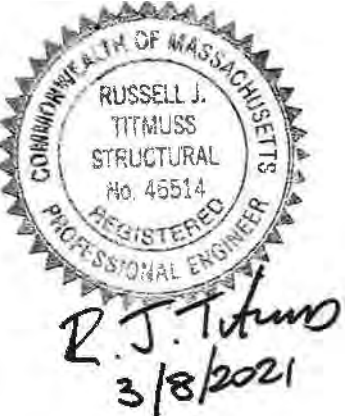
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2**
LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN

REGISTRATION STAMP:



KEY PLAN:

REVISIONS:

REV NO.	DATE	DESCRIPTION	BY:

PRIMARY:



CONSULTANT:

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99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE &
OUT-GATE FACILITIES

SHEET TITLE:

**DRAINAGE AND GRADING
PLANS - 2 OF 14**

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

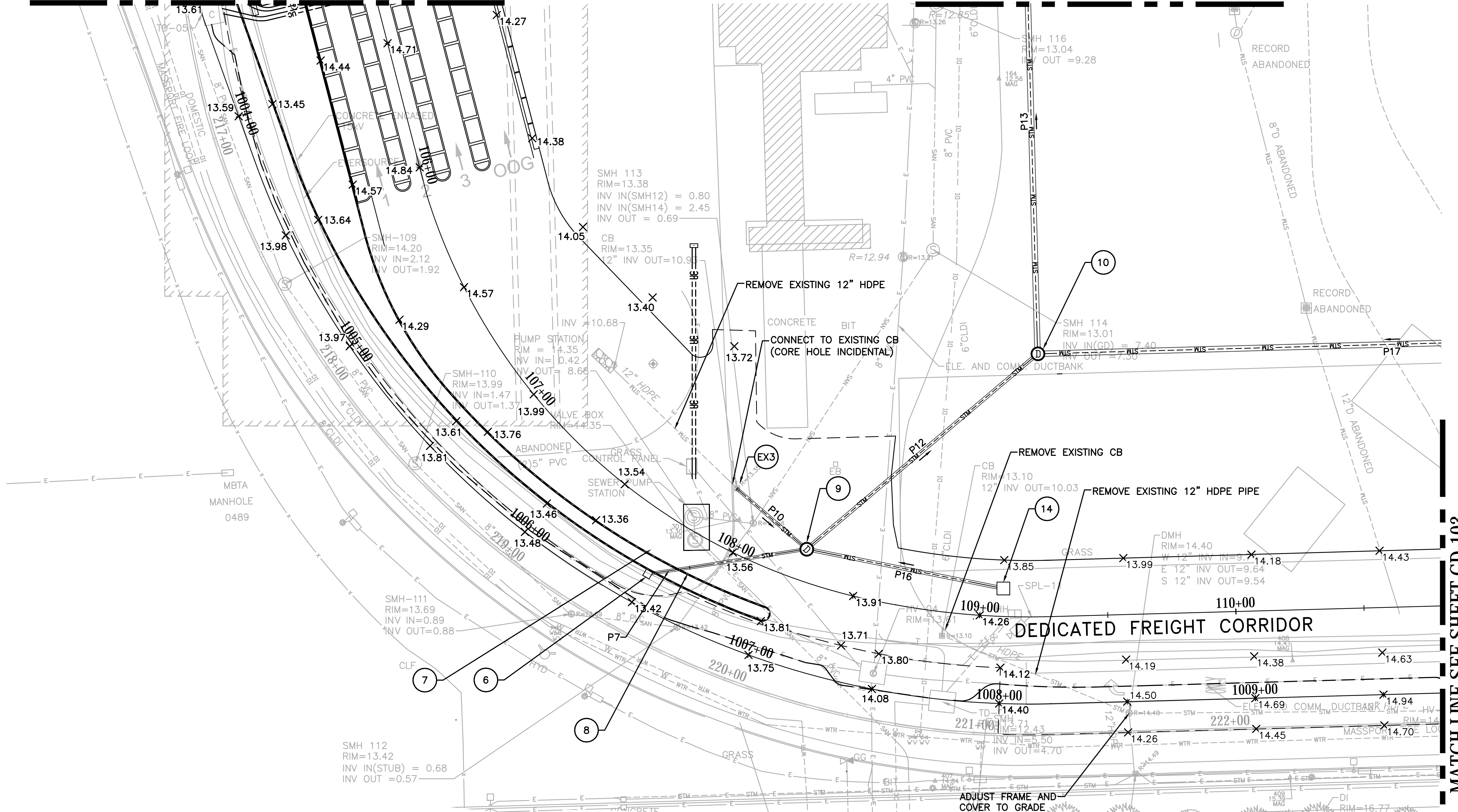
SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:

CD-102

MATCH LINE SEE SHEET CD-101

MATCH LINE SEE SHEET CD-114



NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
6	CB(1)(3)	1006+50.1 (12.6 LT)	13.07	-	9.81
7	DI-B(1)	1006+47.9 (21.5 LT)	13.34	-	9.83
8	DMH	1006+64.3 (22.4 LT)	13.38	9.73 (6) 9.73 (7)	9.73
9	DMH	1007+08.4 (46.5 LT)	13.71	9.50 (8) 9.50 (EX3) 9.00 (14)	7.70
EX3	EX CB	1006+67.8 (58.1 LT)	12.09	-	10.93
14	CB	1008+00.1 (44.9 LT)	11.36	-	9.5

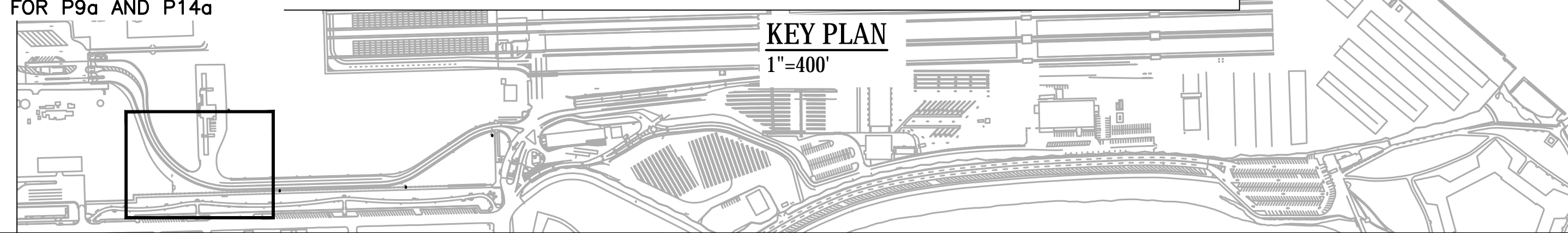
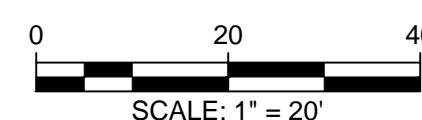
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P9	1006+64.3 (22.4 LT)	1007+08.4 (46.5 LT)	46.2'	12"	Corrugated HDPE Pipe	0.51%
P8	1006+47.9 (21.5 LT)	1006+64.3 (22.4 LT)	15.3'	12"	Ductile Iron Pipe	0.65%
P7	1006+50.1 (12.6 LT)	1006+64.3 (22.4 LT)	16.6'	12"	Ductile Iron Pipe	0.48%
P10	1006+67.8 (58.1 LT)	1007+08.4 (46.5 LT)	35.9'	12"	Corrugated HDPE Pipe	3.98%
P12	1007+08.4 (46.5 LT)	1008+17.6 (136.6 LT)	118.0'	15"	Corrugated HDPE Pipe	3.14%
P16	1008+00.0 (44.9 LT)	1007+08.4 (46.5 LT)	78.3'	15"	Corrugated HDPE Pipe	0.64%

SEE SHEET CD-114 FOR P9a AND P14a

NOTES:

- SEE SHEET CD-101 FOR NOTES AND LEGEND

- SEE SHEET CD-114 FOR STRUCTURE 10.
 (1) INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.
 (2) INSTALL OFFSET CB STRUCTURE



MATCH LINE SEE SHEET CD-103

MATCH LINE SEE SHEET CD-114

PUMP CHAMBER



MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: M560-C2
LOCATION CODE: 4300

PROJECT SUBMISSION PHASE:
100% DESIGN

REGISTRATION STAMP:



R. J. Titus
3/18/2021

KEY PLAN:

REVISIONS:

REV NO.	DATE	DESCRIPTION	BY:

PRIMARY:



CONSULTANT:

HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE &
OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING
PLANS - 3 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: CWA
CHECKED BY:
APPROVED BY:

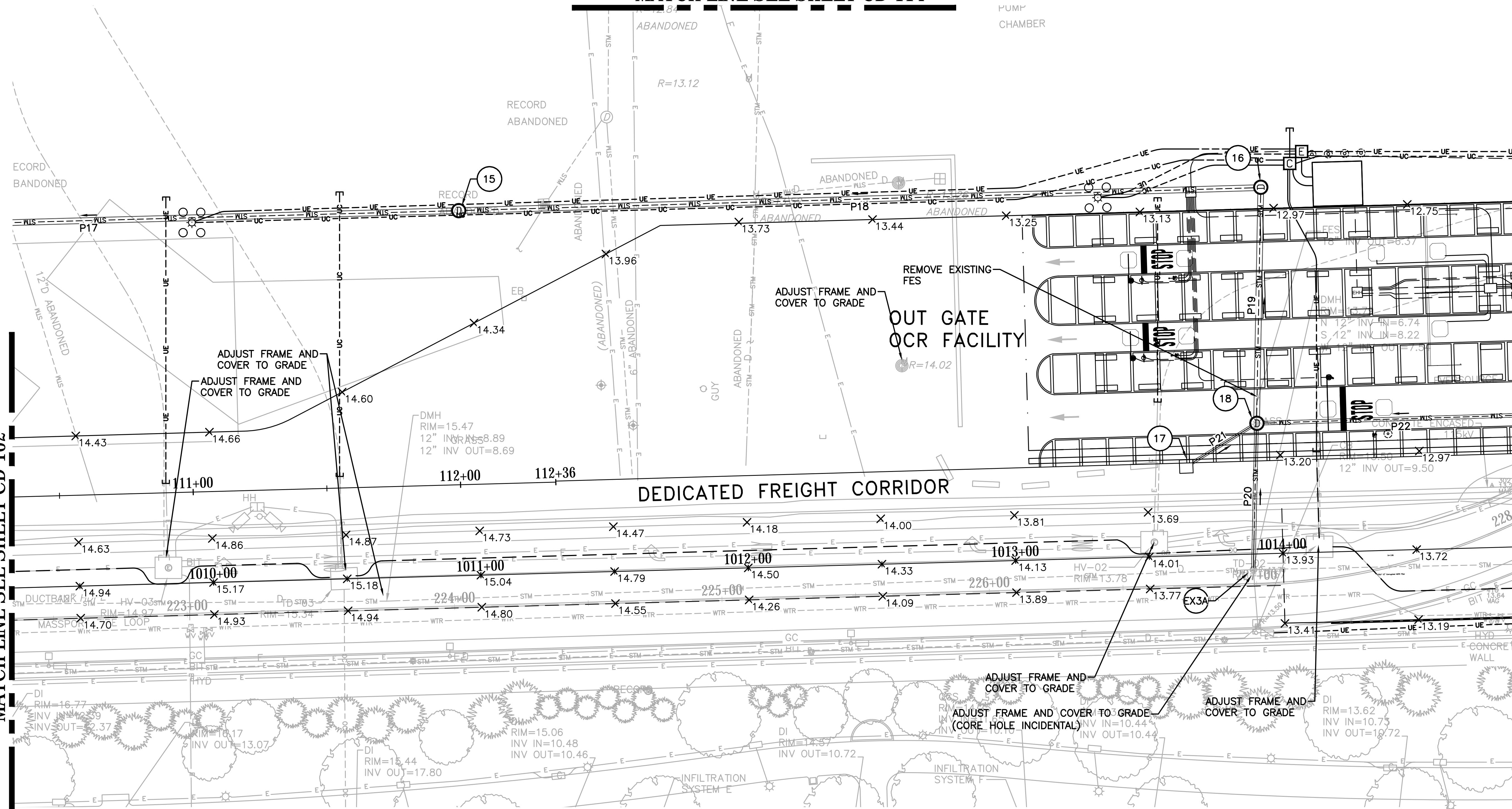
SCALE: 1" = 20'
DATE: FEB 2021

SHEET NUMBER:

CD-103

MATCH LINE SEE SHEET CD-102

MATCH LINE SEE SHEET CD-104



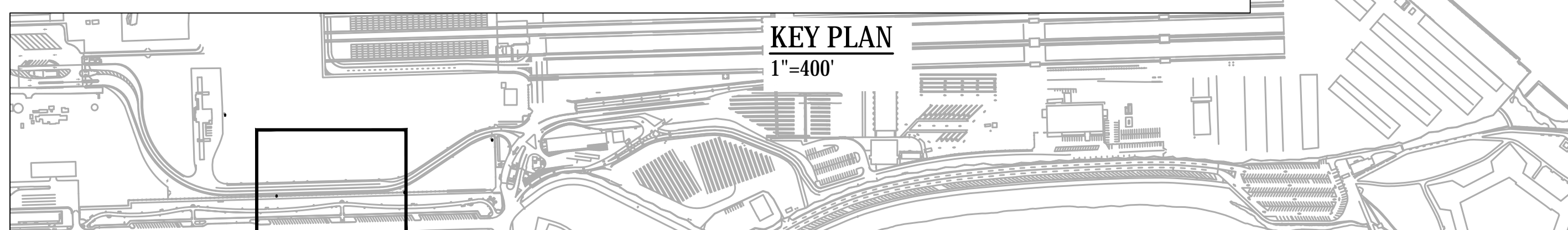
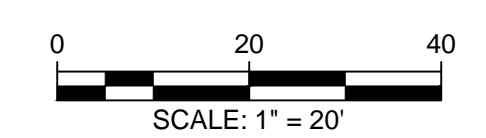
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
17	CB(1)	1013+64.7 (33.4 LT)	14.53	-	12.93
18	DMH	1013+91.4 (48.8 LT)	13.20	6.45 (17) 5.75 (22) 6.45 (EX3A)	5.75
EX3A	EX DMH	1013+88.7 (5.8 RT)	13.86	-	6.74

NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P19	1013+91.4 (48.8 LT)	1013+95.4 (136.9 LT)	88.1'	24"	Corrugated HDPE Pipe	0.57%
P20	1013+88.7 (5.8 RT)	1013+91.4 (48.8 LT)	54.7'	15"	Corrugated HDPE Pipe	0.53%
P21	1013+64.6 (33.3 LT)	1013+91.4 (48.8 LT)	31.0'	12"	Corrugated HDPE Pipe	0.97%
P22	1015+62.4 (49.4 LT)	1013+91.4 (48.8 LT)	171.0'	15"	Corrugated HDPE Pipe	0.50%

SEE SHEET CD-114 FOR PIPES P17 AND P18.

SEE SHEET CD-114 FOR STRUCTURES 13 AND 14.
(1) INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.

NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND



DRAINAGE STRUCTURE DATA

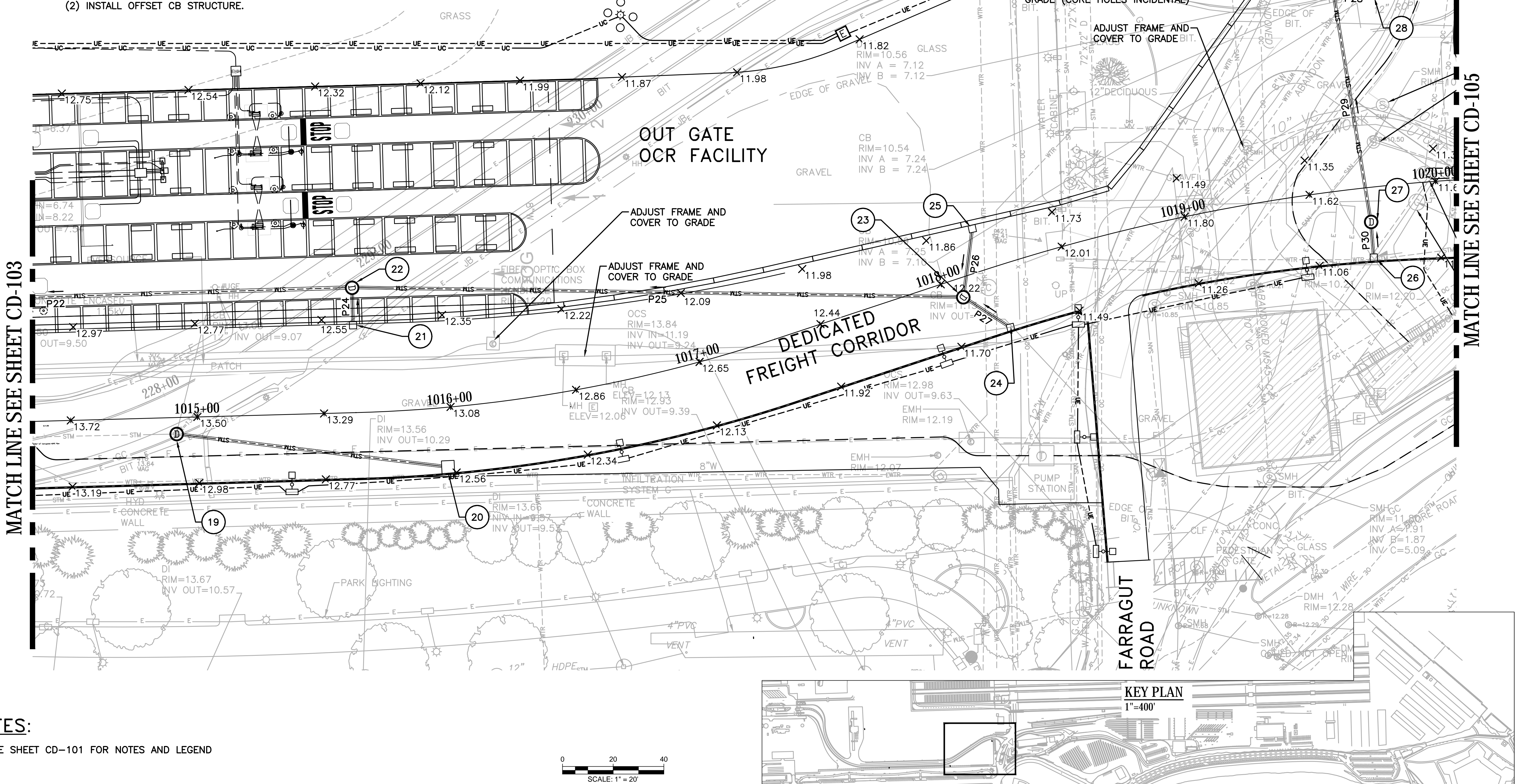
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
19	CIT-DMH	1014+91.5 (6.5 RT)	13.41	9.07	9.07
20	CB(1)(2)	1015+97.0 (23.5 RT)	12.62	-	9.28
21	DI-B(1)	1015+62.4 (34.5 LT)	12.55	-	6.80
22	DSMH	1015+62.4 (49.5 LT)	12.47	6.60 (21) 6.60 (23)	6.60
23	DSMH	1018+00.0 (6.38 RT)	12.10	7.80 (24) 7.80 (25)	7.80
24	DI-B(1)	1018+25.6 (24.6 RT)	11.62	-	7.97
25	DI-B(1)	1018+18.6 (17.0 LT)	11.82	-	7.92
26	DI-B(1)	1019+72.5 (27.7 RT)	11.05	-	7.91
27	DSMH	10149+72.9 (13.6 RT)	11.33	7.86	7.86
28	CIT-DMH	1019+83.4 (76.4 LT)	10.83	-	7.20
EX3B	EX DMH	1019+68.6 (78.7 LT)	8.80	7.61 (27) 7.10 (28)	-

PIPE SCHEDULE

NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P30	1019+72.5 (27.7 RT)	1019+72.9 (13.6 RT)	14.1'	12"	Ductile Iron Pipe	0.35%
P29	1019+72.9 (13.6 RT)	1019+68.6 (78.7 LT)	92.5'	12"	Corrugated HDPE Pipe	0.27%
P26	1018+18.6 (17.0 LT)	1018+06.9 (7.5 RT)	27.2'	12"	Ductile Iron Pipe	0.44%
P25	1018+06.9 (7.5 RT)	1015+62.4 (49.4 LT)	241.3'	12"	Corrugated HDPE Pipe	0.50%
P28	1019+83.4 (76.4 LT)	1019+68.6 (78.7 LT)	16.5'	12"	Corrugated HDPE Pipe	0.61%
P27	1018+21.0 (24.8 RT)	1018+06.9 (7.5 RT)	22.2'	12"	Ductile Iron Pipe	0.77%
P24	1015+62.4 (34.5 LT)	1015+62.4 (49.4 LT)	14.9'	12"	Ductile Iron Pipe	1.34%

SEE SHEET CD-103 FOR PIPE P19a.

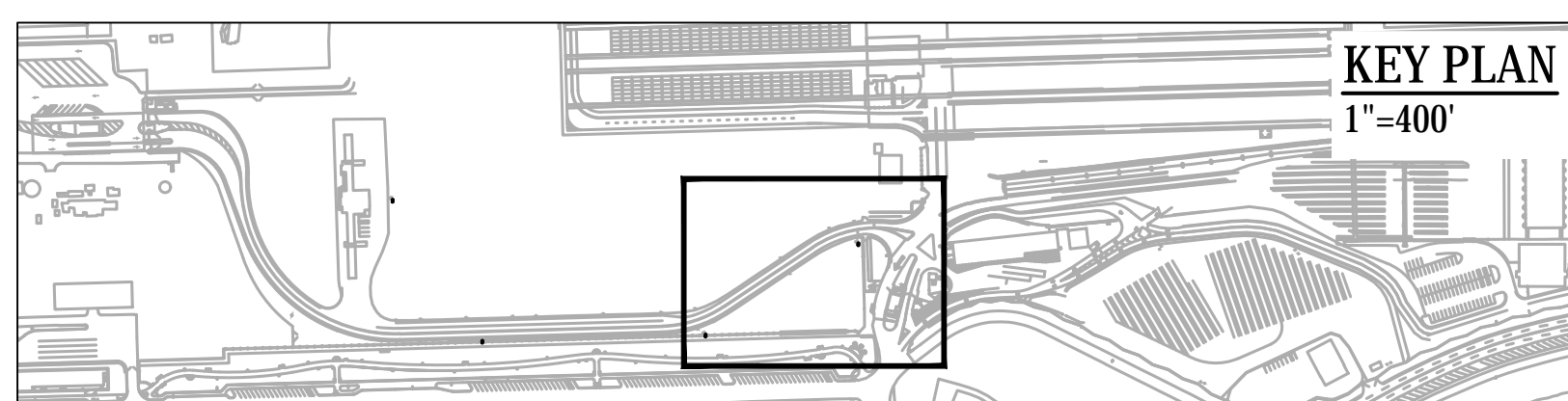
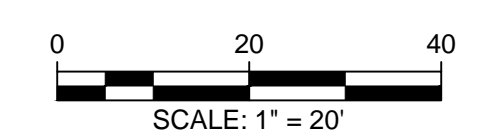
- (1) INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.
- (2) INSTALL OFFSET CB STRUCTURE.



MATCH LINE SEE SHEET CD-103

MATCH LINE SEE SHEET CD-105

NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND



MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN

REGISTRATION STAMP:



KEY PLAN:

REV NO.	DATE	DESCRIPTION	BY

REVISIONS:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:



CONSULTANT:

HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE &
OUT-GATE FACILITIES

SHEET TITLE:
**DRAINAGE AND GRADING
PLANS - 4 OF 14**

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:

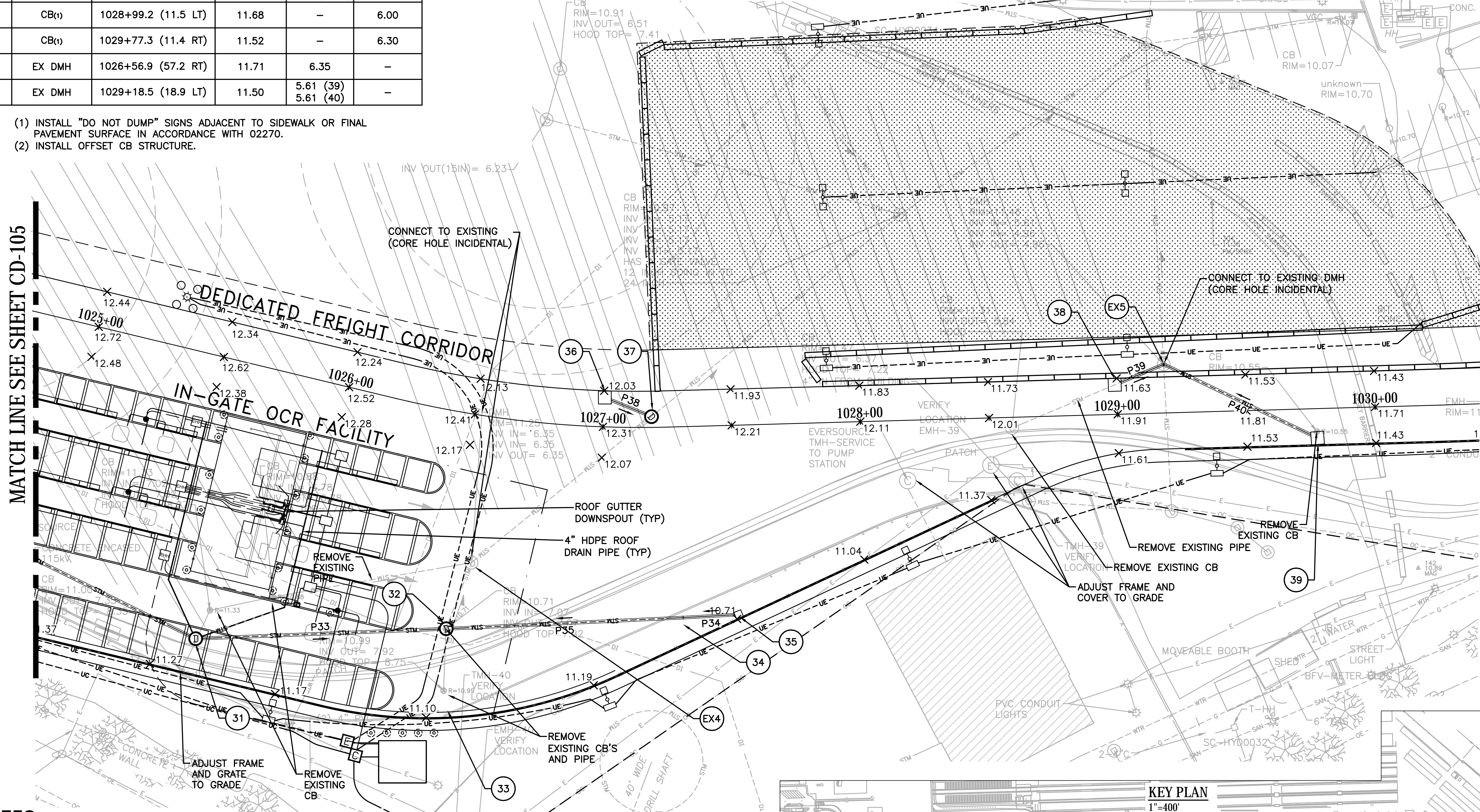
CD-104

DRAINAGE STRUCTURE DATA					
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
31	DMH	1025+64.8 (109.0 RT)	11.38	7.15 (30) 7.26 (EXIST)	7.15
32	DMH	1026+51.7 (84.1 RT)	11.45	6.85 (31) 6.85 (33) 6.85 (34)	6.85
33	CB(1)	1026+54.2 (115.9 RT)	11.13	-	7.01
34	DSMH	1027+29.1 (74.1 RT)	10.77	7.13	7.13
35	DI-B(1)	1027+50.6 (73.5 RT)	10.74	-	7.20
36	CB(1)	1027+00.3 (11.4 LT)	12.08	-	5.96
37	DMH	1027+18.8 (4.3 LT)	12.19	5.86 (36) 5.86 (EXIST) 5.86 (EXIST)	-
38	CB(1)	1028+99.2 (11.5 LT)	11.68	-	6.00
39	CB(1)	1029+77.3 (11.4 RT)	11.52	-	6.30
EX4	EX DMH	1026+56.9 (57.2 RT)	11.71	6.35	-
EX5	EX DMH	1029+18.5 (18.9 LT)	11.50	5.61 (39) 5.61 (40)	-

PIPE SCHEDULE						
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P36	1026+54.2 (115.9 RT)	1026+51.7 (84.1 RT)	32.0'	12"	Corrugated HDPE Pipe	0.50%
P35	1027+29.1 (74.1 RT)	1026+51.7 (84.1 RT)	92.3'	12"	Corrugated HDPE Pipe	0.31%
P37	1026+51.7 (84.1 RT)	1026+56.9 (57.2 RT)	27.6'	12"	Corrugated HDPE Pipe	1.81%
P33	1025+64.8 (109.0 RT)	1026+51.7 (84.1 RT)	97.4'	12"	Corrugated HDPE Pipe	0.31%
P39	1028+99.2 (11.5 LT)	1029+18.5 (18.9 LT)	20.7'	12"	Corrugated HDPE Pipe	1.89%
P40	1029+77.3 (11.4 RT)	1029+18.5 (18.9 LT)	66.2'	12"	Corrugated HDPE Pipe	1.04%
P38	1027+00.3 (11.4 LT)	1027+18.8 (4.3 LT)	19.5'	12"	Corrugated HDPE Pipe	0.51%
P34	1027+50.6 (73.5 RT)	1027+29.1 (74.1 RT)	21.6'	12"	Ductile Iron Pipe	0.31%

SEE SHEET CD-105 FOR PIPE P25.

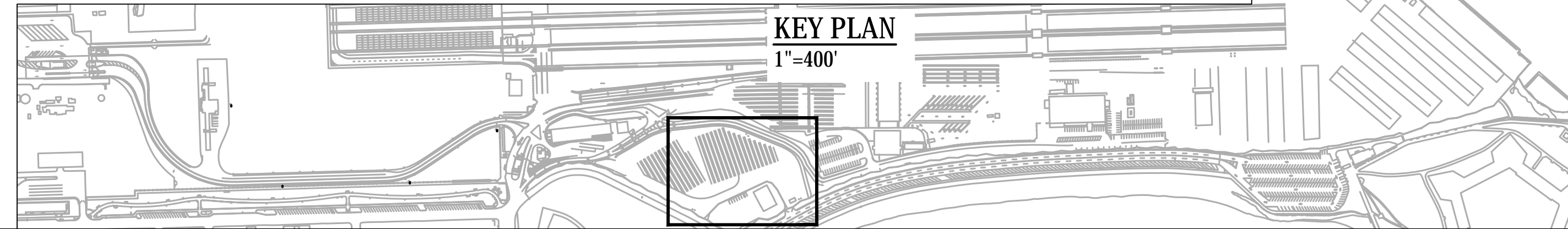
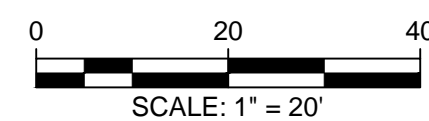
- INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.
- INSTALL OFFSET CB STRUCTURE.



MATCH LINE SEE SHEET CD-105

MATCH LINE SEE SHEET CD-107

- NOTES:**
- SEE SHEET CD-101 FOR NOTES AND LEGEND



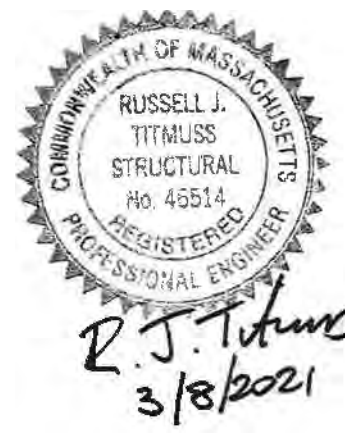
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2**
LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN

REGISTRATION STAMP:



KEY PLAN:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:



CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:
M560-C2
NEW CONLEY IN-GATE & OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING PLANS - 6 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

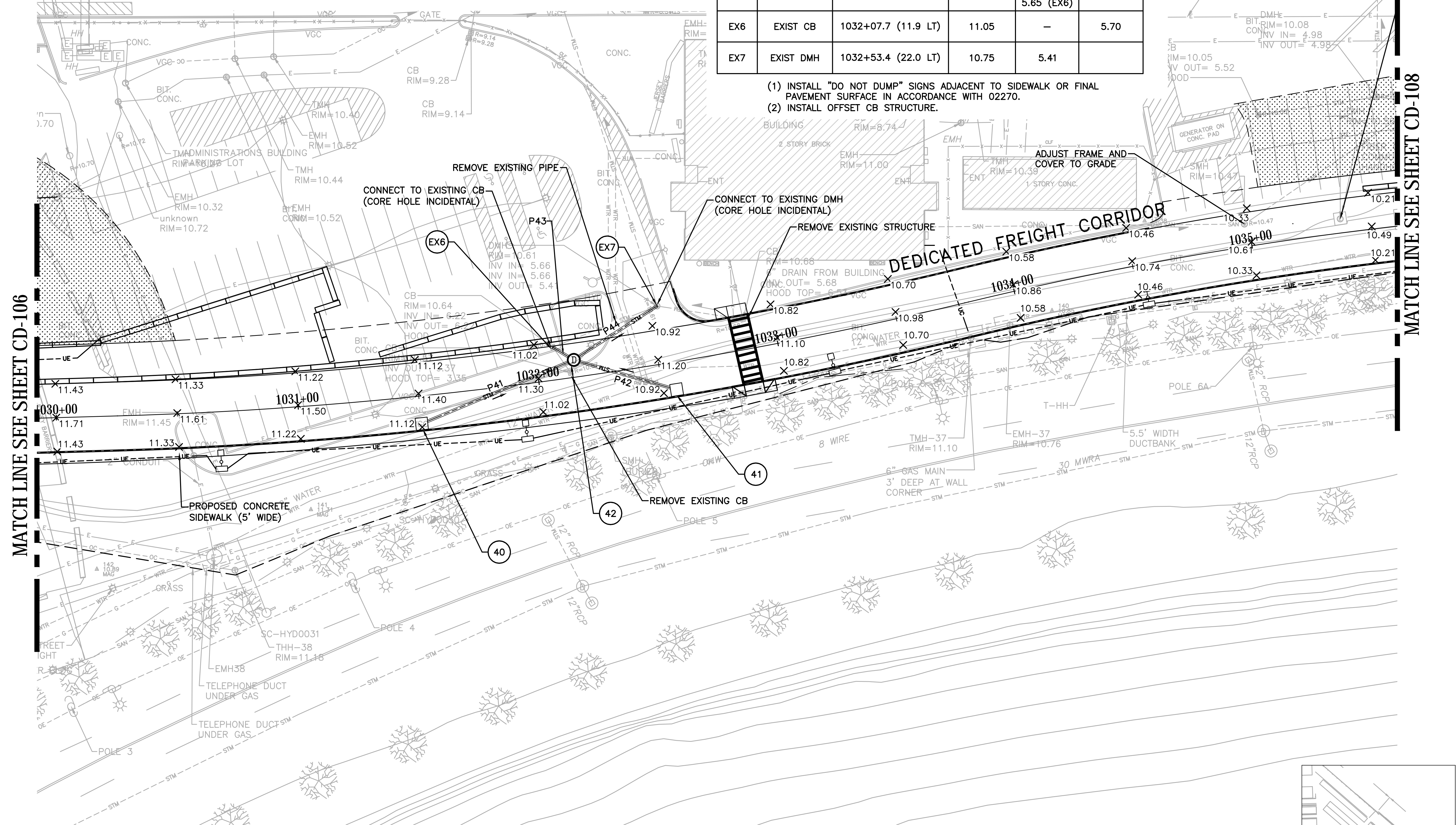
SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:
CD-106

PIPE SCHEDULE						
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P43	1032+07.6 (13.6 LT)	1032+15.4 (7.2 LT)	10.0'	12"	Corrugated HDPE Pipe	0.50%
P42	1032+55.6 (11.4 RT)	1032+15.4 (7.2 LT)	44.3'	12"	Corrugated HDPE Pipe	0.68%
P44	1032+15.4 (7.2 LT)	1032+53.3 (24.0 LT)	41.2'	12"	Corrugated HDPE Pipe	0.58%
P41	1031+50.1 (11.4 RT)	1032+15.4 (7.2 LT)	68.0'	12"	Corrugated HDPE Pipe	0.47%

DRAINAGE STRUCTURE DATA					
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
40	CB(1)(2)	1031+50.1 (11.4 RT)	11.15	-	5.97
41	CB(1)	1032+56.0 (11.4 RT)	10.92	-	5.95
42	DMH	1032+15.4 (5.5 LT)	11.16	5.65 (40) 5.65 (41) 5.65 (EX6)	5.65
EX6	EXIST CB	1032+07.7 (11.9 LT)	11.05	-	5.70
EX7	EXIST DMH	1032+53.4 (22.0 LT)	10.75	5.41	

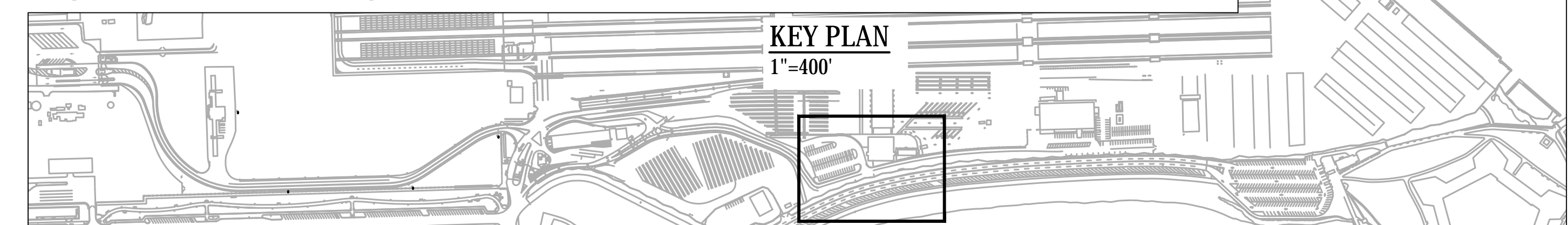
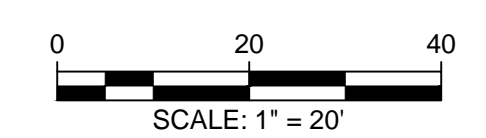
- INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.
- INSTALL OFFSET CB STRUCTURE.



MATCH LINE SEE SHEET CD-106

MATCH LINE SEE SHEET CD-108

NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND



MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN

REGISTRATION STAMP:



KEY PLAN:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET, SUITE 300
FRANKLIN, MA 02038
(781) 777-6001

CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:
M560-C2
NEW CONLEY IN-GATE &
OUT-GATE FACILITIES

SHEET TITLE:
**DRAINAGE AND GRADING
PLANS - 7 OF 14**

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA		

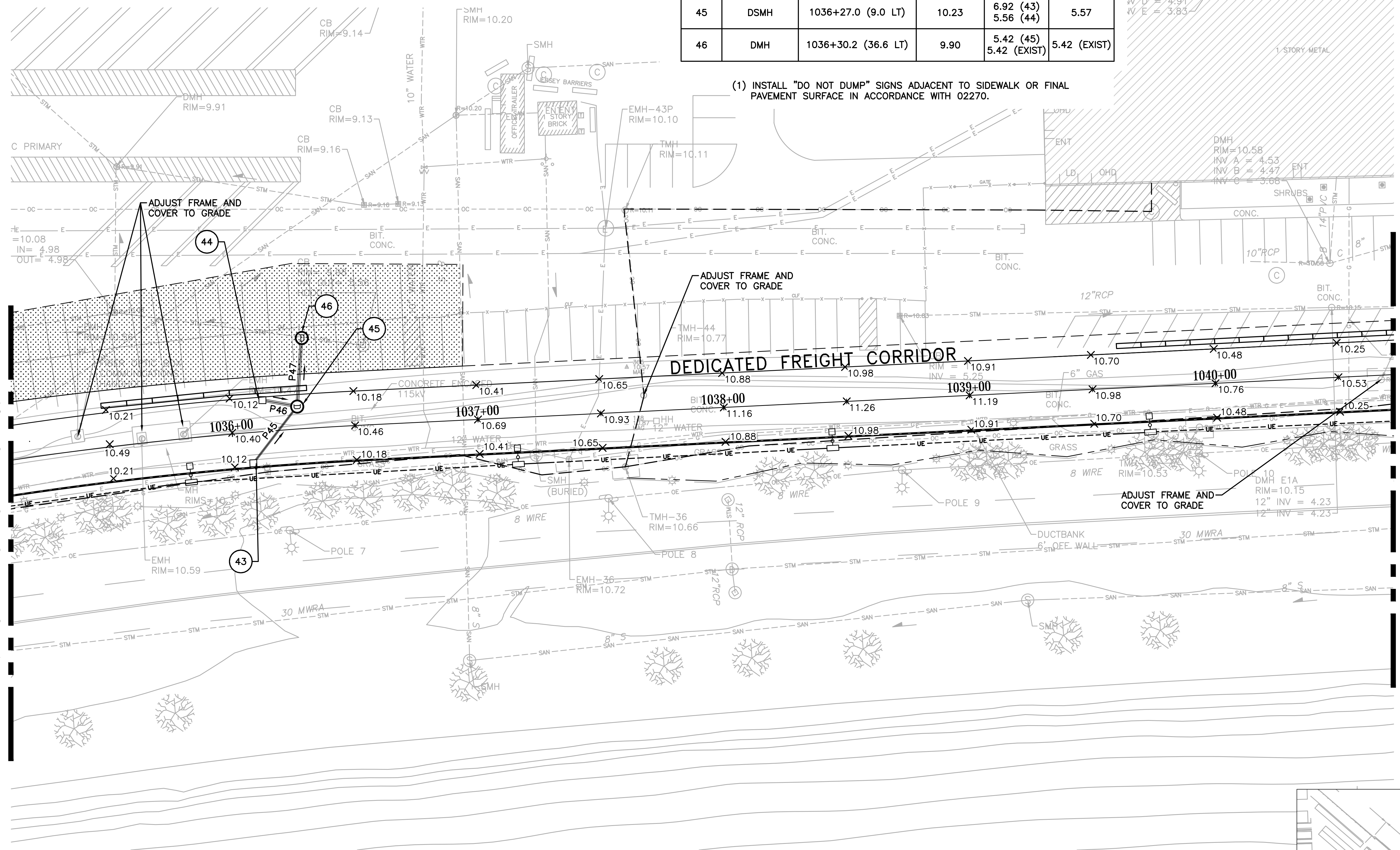
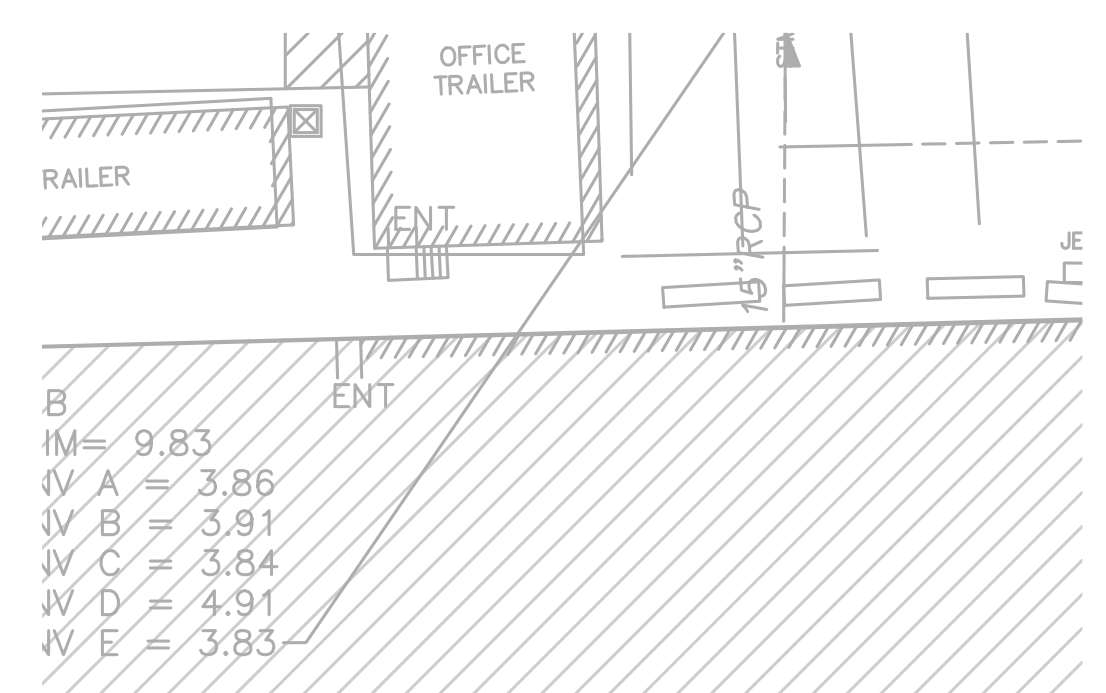
SCALE:	DATE:
1" = 20'	FEB 2021

SHEET NUMBER:
CD-107



PIPE SCHEDULE						
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P47	1036+27.1 (9.2 LT)	1036+30.6 (36.8 LT)	27.8'	12"	Corrugated HDPE Pipe	0.54%
P46	1036+13.3 (12.8 LT)	1036+27.1 (9.2 LT)	14.3'	12"	Ductile Iron Pipe	0.42%
P45	1036+07.6 (12.5 RT)	1036+27.1 (9.2 LT)	29.2'	8"	Ductile Iron Pipe	2.23%

DRAINAGE STRUCTURE DATA					
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
43	DI-B(1)	1036+07.8 (12.5 RT)	12.52	-	7.57
44	DI-B(1)	1036+13.1 (12.4 LT)	10.15	-	5.62
45	DSMH	1036+27.0 (9.0 LT)	10.23	6.92 (43) 5.56 (44)	5.57
46	DMH	1036+30.2 (36.6 LT)	9.90	5.42 (45) 5.42 (EXIST)	5.42 (EXIST)

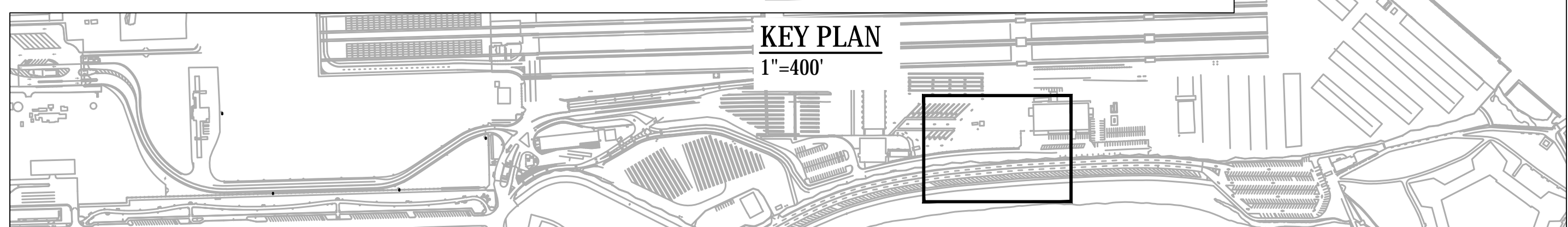
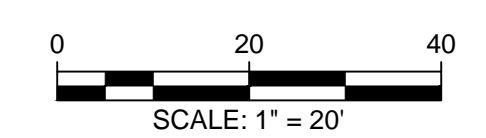


(1) INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.

MATCH LINE SEE SHEET CD-107

MATCH LINE SEE SHEET CD-109

NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND

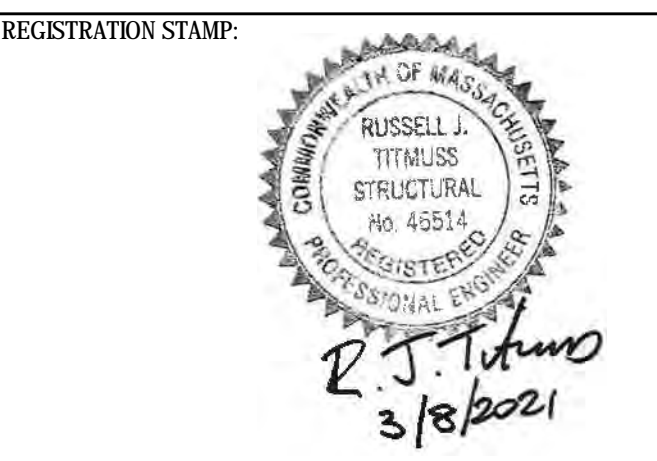


MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN



REGISTRATION STAMP:
KEY PLAN:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET, SUITE 300
FRANKLIN, MA 02038
(781) 777-6001

CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:
M560-C2
NEW CONLEY IN-GATE & OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING PLANS - 8 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

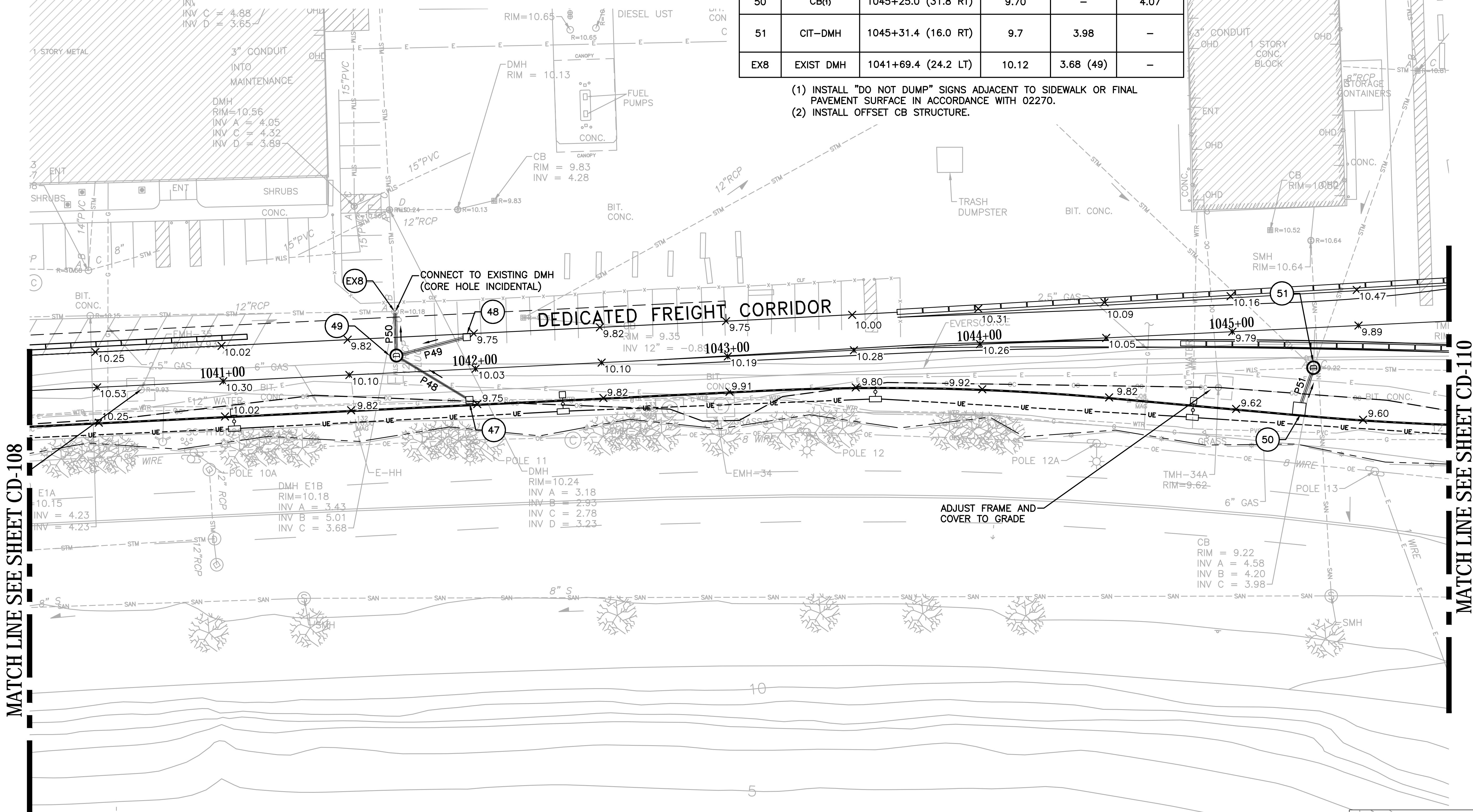
SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:
CD-108

PIPE SCHEDULE						
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P49	1041+97.2 (12.7 LT)	1041+69.0 (6.7 LT)	28.8'	12"	Ductile Iron Pipe	0.49%
P48	1041+97.0 (12.2 RT)	1041+69.0 (6.7 LT)	33.8'	8"	Ductile Iron Pipe	3.14%
P50	1041+69.0 (6.7 LT)	1041+69.4 (24.2 LT)	17.5'	12"	Corrugated HDPE Pipe	1.03%
P51	1045+25.0 (31.8 RT)	1045+31.4 (15.9 RT)	17.1'	12"	Corrugated HDPE Pipe	0.53%

DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT	
47	DI-B(1)	1041+97.0 (12.2 RT)	9.78	-	7.40	
48	DI-B(1)	1041+97.1 (12.7 LT)	9.77	-	4.00	
49	DSMH	1041+69.0 (6.7 LT)	9.92	6.34 (47) 3.86 (48)	3.86	
50	CB(1)	1045+25.0 (31.8 RT)	9.70	-	4.07	
51	CIT-DMH	1045+31.4 (16.0 RT)	9.7	3.98	-	
EX8	EXIST DMH	1041+69.4 (24.2 LT)	10.12	3.68 (49)	-	

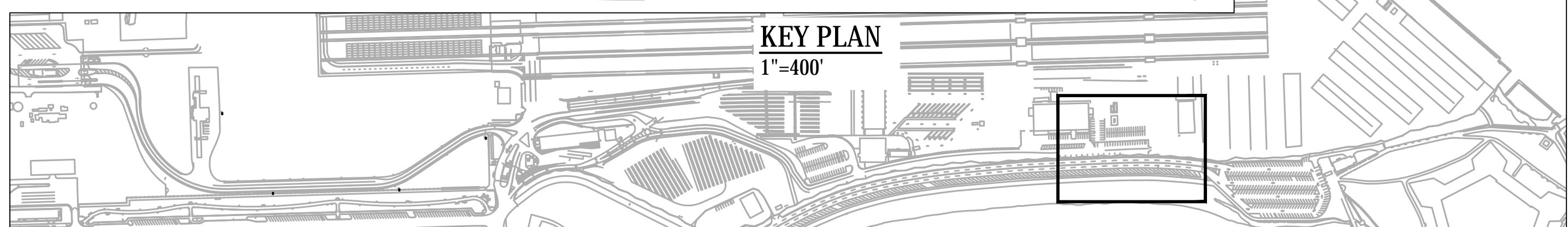
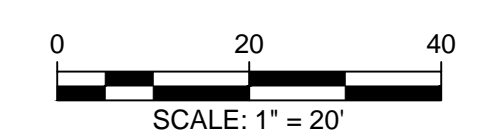
- INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.
- INSTALL OFFSET CB STRUCTURE.



MATCH LINE SEE SHEET CD-108

MATCH LINE SEE SHEET CD-110

NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND

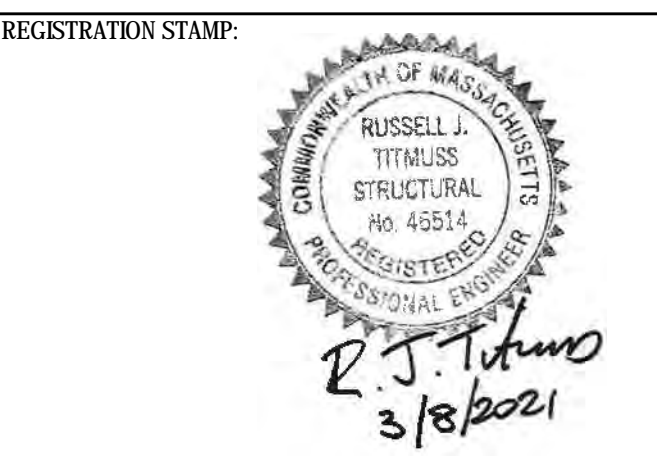


MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN



REGISTRATION STAMP:
KEY PLAN:

REV NO.	DATE	DESCRIPTION	BY



CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:
M560-C2
NEW CONLEY IN-GATE & OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING PLANS - 9 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:
CD-109

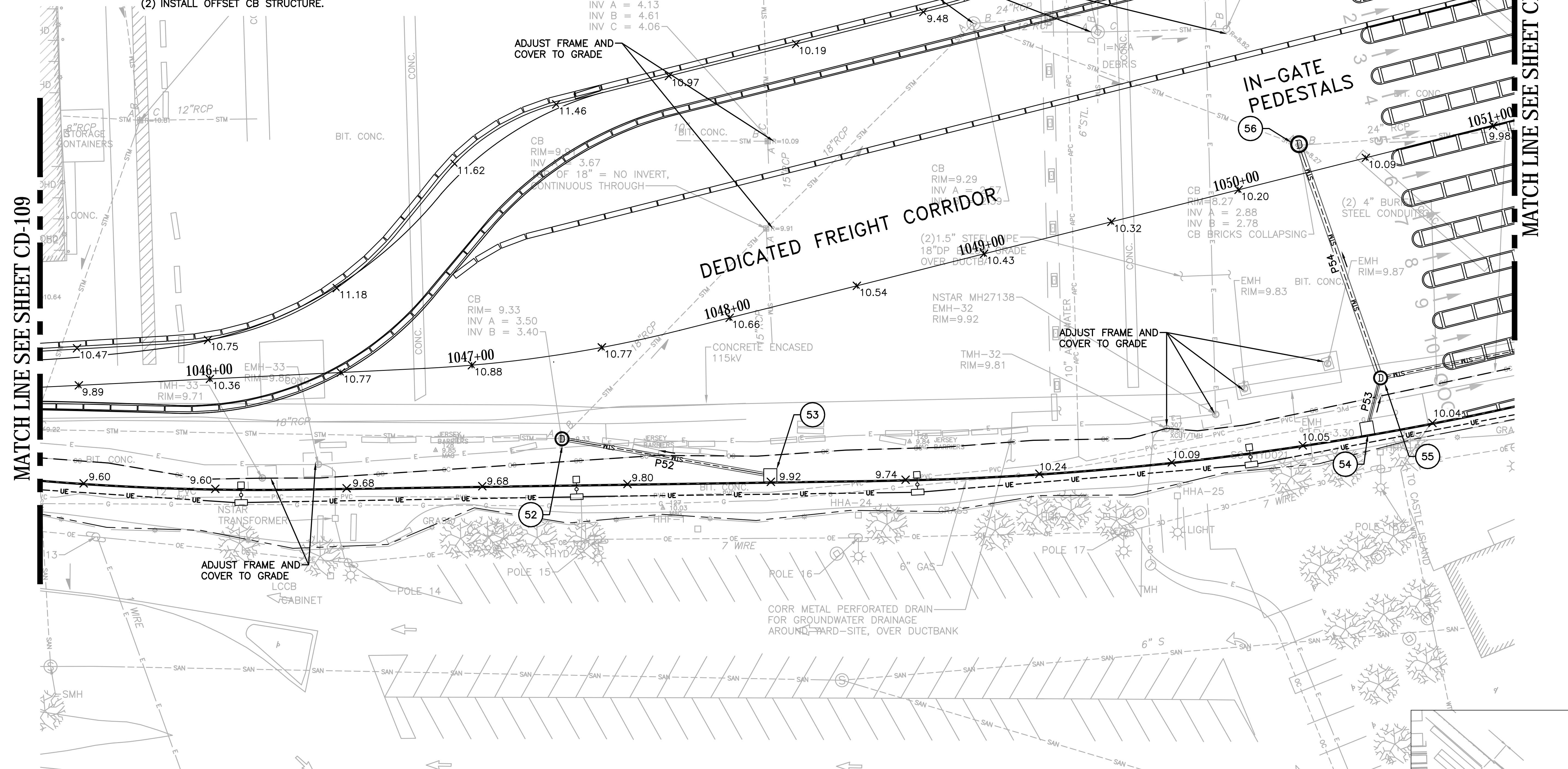
MATCH LINE SEE SHEET CD-112

DRAINAGE STRUCTURE DATA					
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
52	CIT-DMH	1047+29.8 (31.8 RT)	10.18	3.50	-
53	CB(1)	1048+00.4 (62.0 RT)	9.96	-	3.90
54	CB(1)(2)	1050+25.4 (100.1 RT)	10.03	-	3.75
55	DMH	1050+34.9 (82.6 RT)	10.22	3.50 (54) 3.50 (58)	3.40
56	DMH	1050+26.4 (11.3 LT)	10.44	2.88	-

PIPE SCHEDULE						
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P54	1050+34.9 (82.6 RT)	1050+26.4 (11.3 LT)	94.3'	24"	Corrugated HDPE Pipe	0.55%
P52	1048+00.4 (62.0 RT)	1047+29.8 (31.8 RT)	80.7'	15"	Corrugated HDPE Pipe	0.50%
P53	1050+25.4 (100.1 RT)	1050+34.9 (82.6 RT)	19.9'	12"	Corrugated HDPE Pipe	1.26%

SEE SHEET CD-111 FOR PIPE P55.

- INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270.
- INSTALL OFFSET CB STRUCTURE.

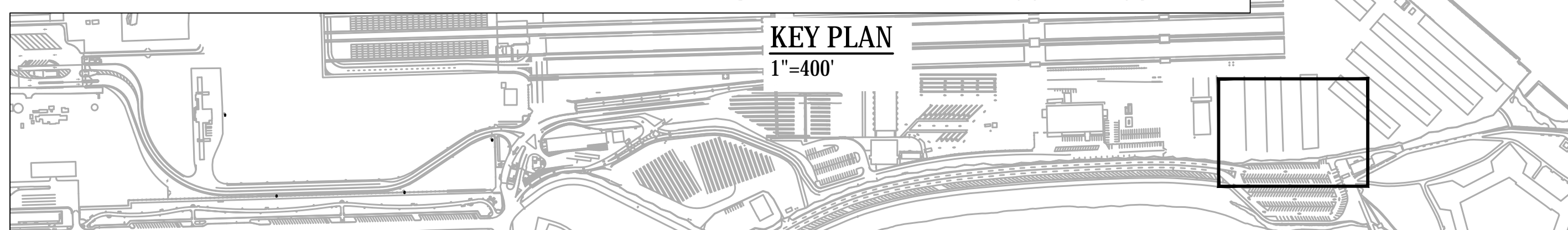


MATCH LINE SEE SHEET CD-109

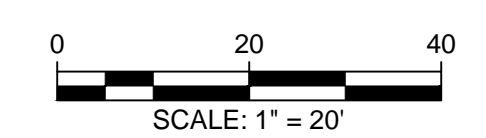
MATCH LINE SEE SHEET CD-111

DEDICATED FREIGHT CORRIDOR

IN-GATE PEDESTALS



NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND

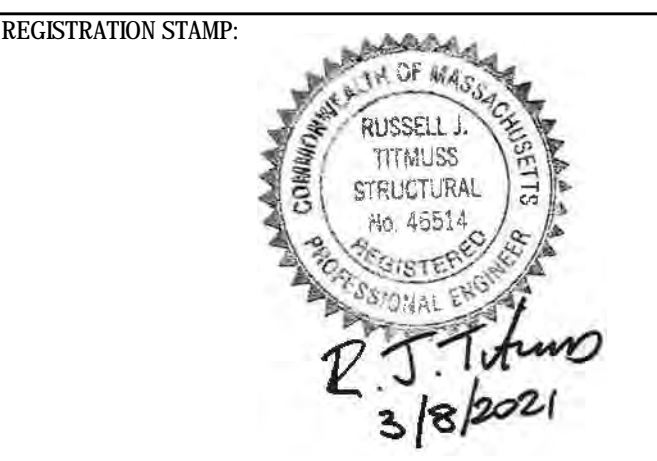


MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2** LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN



REGISTRATION STAMP:

KEY PLAN:

REV NO.	DATE	DESCRIPTION	BY



CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:
M560-C2
NEW CONLEY IN-GATE & OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING PLANS - 10 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:
CD-110

PIPE SCHEDULE

NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P56	1052+25.3 (105.4 RT)	1052+25.2 (91.9 RT)	13.5'	12"	Ductile Iron Pipe	0.74%
P58	1054+25.3 (104.8 RT)	1054+25.6 (92.1 RT)	12.7'	12"	Ductile Iron Pipe	0.40%
P57	1054+25.6 (92.1 RT)	1052+25.2 (91.9 RT)	200.4'	15"	Corrugated HDPE Pipe	0.47%
P55	1052+25.2 (91.9 RT)	1050+34.9 (82.6 RT)	190.5'	15"	Corrugated HDPE Pipe	0.53%

MATCH LINE SEE SHEET CD-112

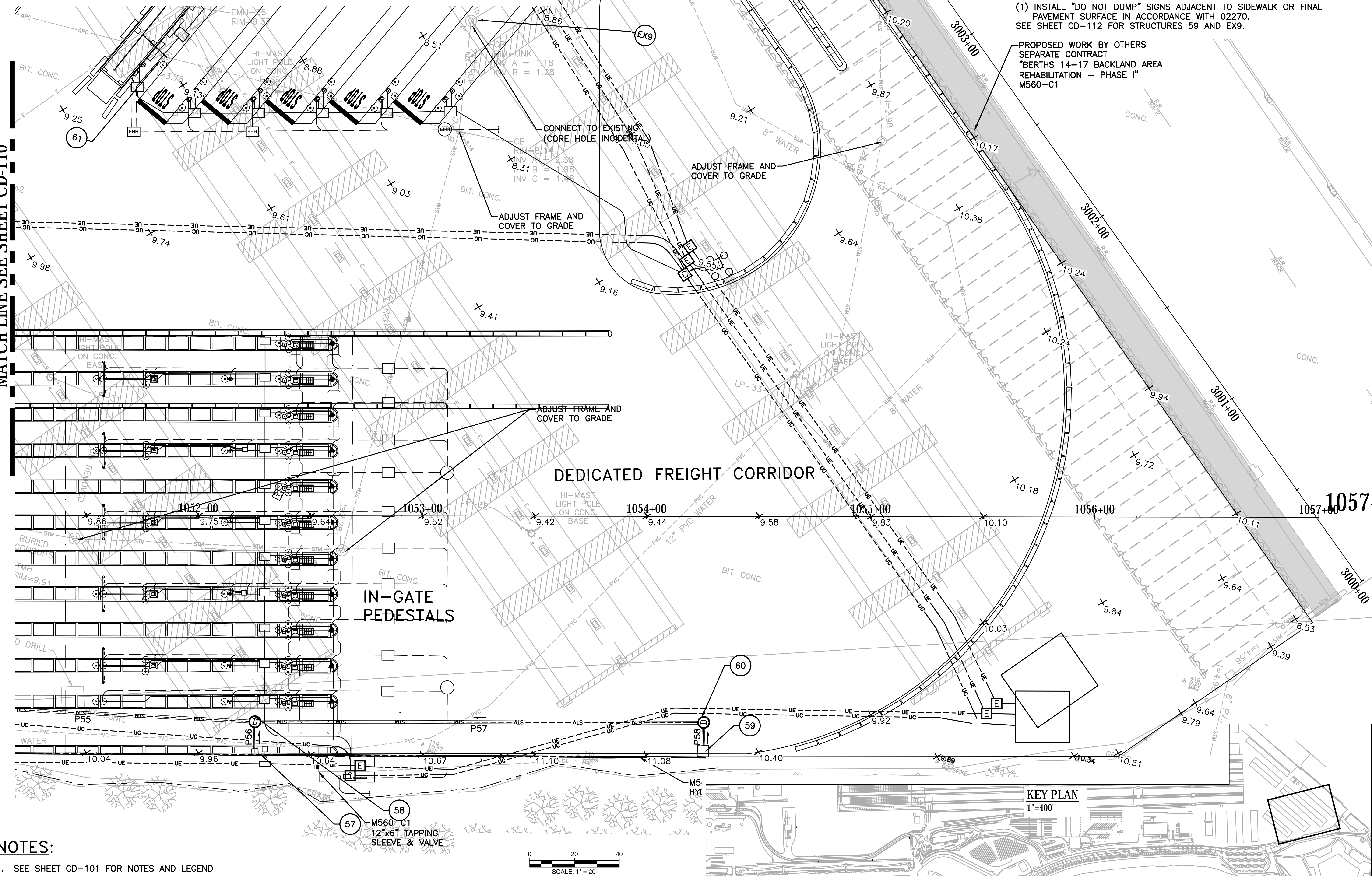
DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
57	DI-B(1)	1052+25.3 (105.4 RT)	10.06	-	4.60
58	DMH	1052+25.1 (92.0 RT)	10.09	4.50 (57) 4.50 (60)	4.50
59	CB(1)	1054+25.2 (104.8 RT)	10.42	-	5.50
60	DMH	1054+25.6 (92.1 RT)	10.39	5.45	5.45

(1) INSTALL "DO NOT DUMP" SIGNS ADJACENT TO SIDEWALK OR FINAL PAVEMENT SURFACE IN ACCORDANCE WITH 02270. SEE SHEET CD-112 FOR STRUCTURES 59 AND EX9.

PROPOSED WORK BY OTHERS SEPARATE CONTRACT "BERTHS 14-17 BACKLAND AREA REHABILITATION - PHASE 1" M560-C1

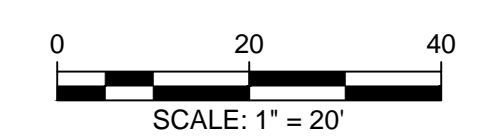
MATCH LINE SEE SHEET CD-110



DEDICATED FREIGHT CORRIDOR

IN-GATE PEDESTALS

KEY PLAN
1"=400'



NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND



MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: **M560-C2**
LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN

REGISTRATION STAMP:



R.J. Titus
3/18/2021

KEY PLAN:

REVISIONS:

REV NO.	DATE	DESCRIPTION	BY:

PRIMARY:

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET, SUITE 300
FRANKLIN, MA 02038
(781) 777-6001

CONSULTANT:

HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE & OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING PLANS - 11 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:
CD-111



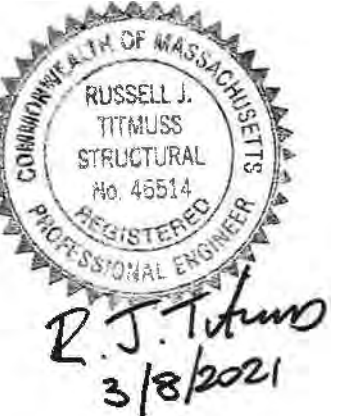
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
**CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS**

MPA CONTRACT NO.: **M560-C2**
LOCATION CODE: **4300**

PROJECT SUBMISSION PHASE:
100% DESIGN

REGISTRATION STAMP:



KEY PLAN:



REVISIONS:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:



CONSULTANT:



PROJECT NUMBER AND TITLE:

**M560-C2
NEW CONLEY IN-GATE &
OUT-GATE FACILITIES**

SHEET TITLE:
**DRAINAGE AND GRADING
PLANS - 13 OF 14**

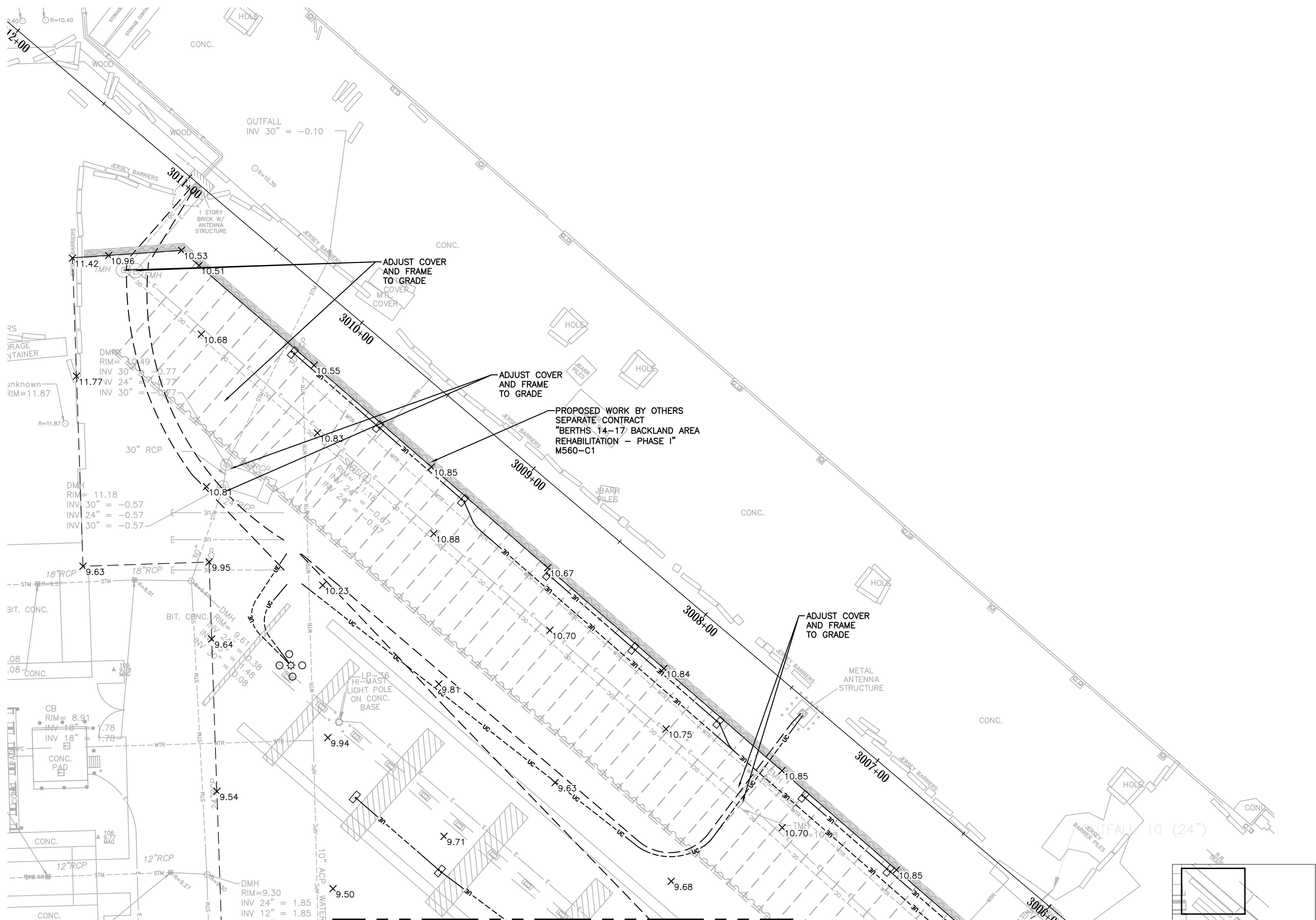
FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: **CWA** CHECKED BY: APPROVED BY:

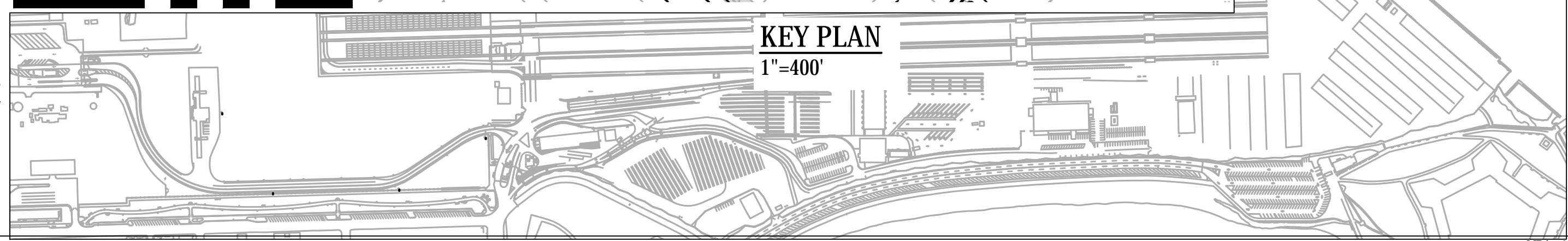
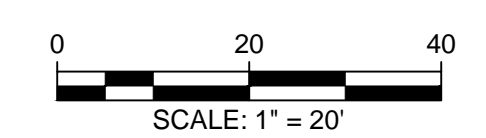
SCALE: **1" = 20'** DATE: **FEB 2021**

SHEET NUMBER:
CD-113



NOTES:
1. SEE SHEET CD-101 FOR NOTES AND LEGEND

**MATCH LINE
SEE SHEET CD-112**





MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.:
M560-C2

LOCATION CODE:
4300

PROJECT SUBMISSION PHASE:

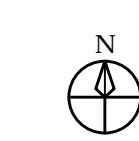
100% DESIGN

REGISTRATION STAMP:



R.J. Titus
3/8/2021

KEY PLAN:



REVISIONS:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:



CONSULTANT:
HDR
HDR ARCHITECTURE, PC
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN-GATE &
OUT-GATE FACILITIES

SHEET TITLE:
DRAINAGE AND GRADING
PLANS - 14 OF 14

FOR PERMITS ONLY

DISCIPLINE:

DRAWN BY: CWA
CHECKED BY:
APPROVED BY:

SCALE: 1" = 20'
DATE: FEB 2021

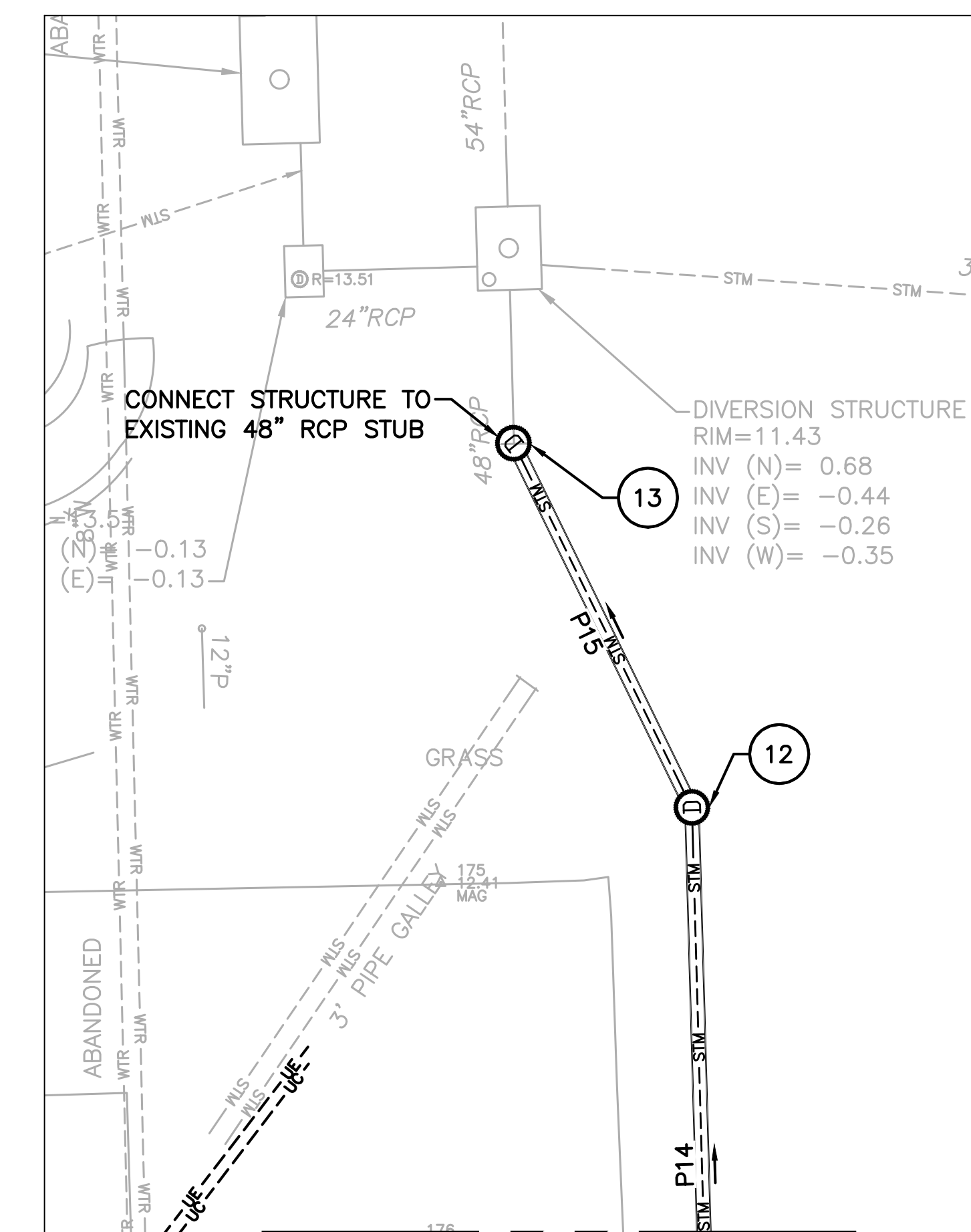
SHEET NUMBER:

CD-114

PIPE SCHEDULE						
NAME	START STATION	END STATION	LENGTH	SIZE	MATERIAL	SLOPE
P11	1008+28.7 (318.0 LT)	1006+57.3 (317.8 LT)	10.0'	15"	Corrugated HDPE Pipe	0.50%
P13	1008+17.6 (136.6 LT)	1006+57.3 (317.8 LT)	181.6'	24"	Corrugated HDPE Pipe	0.52%
P15	1002+82.6 (363.9 LT)	1002+28.2 (357.2 LT)	63.2'	24"	Corrugated HDPE Pipe	0.52%
P18	1013+95.4 (136.9 LT)	1010+95.3 (136.5 LT)	300.1'	24"	Corrugated HDPE Pipe	0.50%
P14	1006+57.3 (317.8 LT)	1002+82.6 (363.9 LT)	145.0'	24"	Corrugated HDPE Pipe	0.50%
P17	1010+95.3 (136.5 LT)	1008+17.6 (136.6 LT)	276.6'	24"	Corrugated HDPE Pipe	0.51%

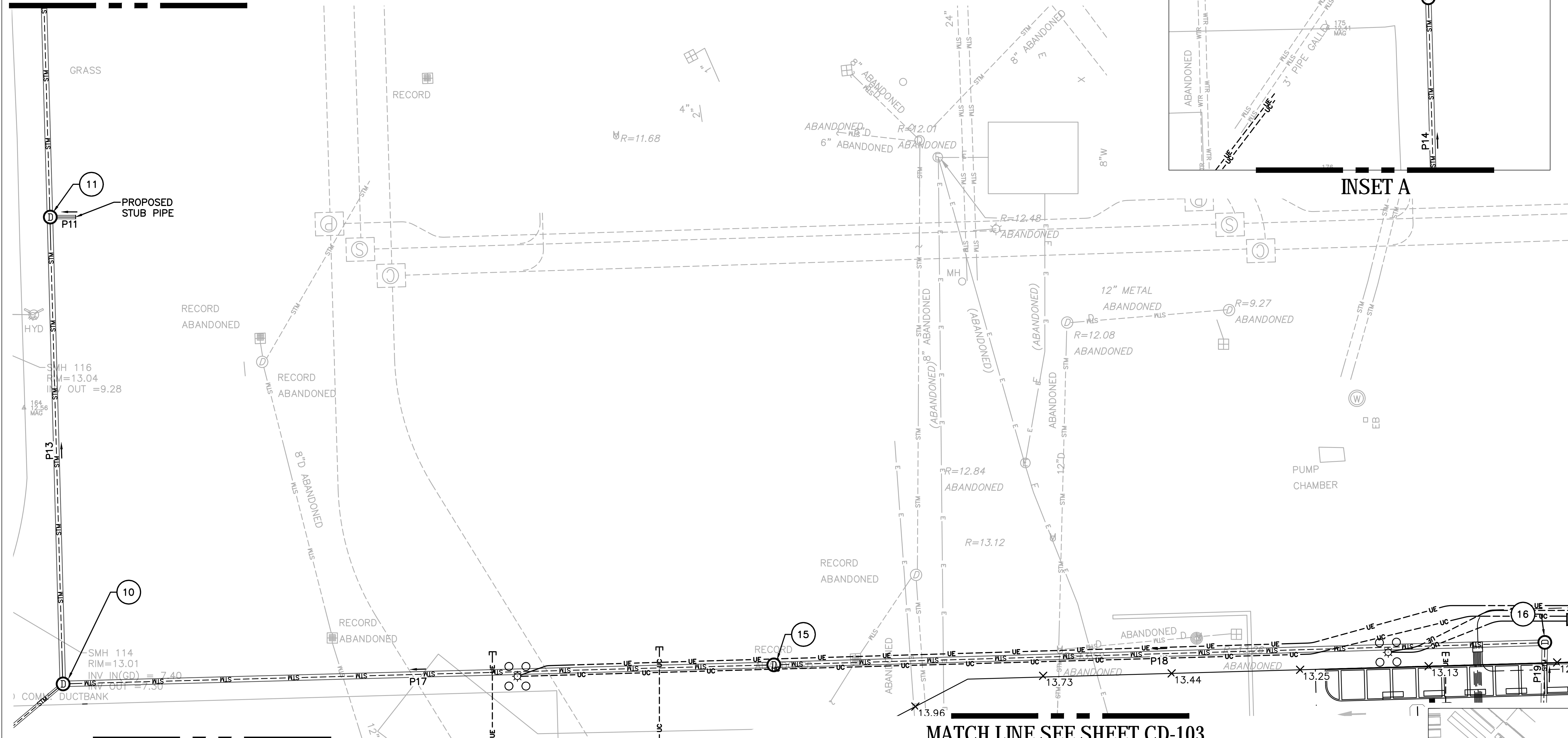
SEE SHEET CD-103 FOR PIPE P19.

DRAINAGE STRUCTURE DATA					
NO.	TYPE	STATION	RIM ELEV. (NOTE 5)	INV. IN	INV. OUT
10	DMH	1008+17.6 (136.6 LT)	12.72	4.00 (9) 2.35 (15)	2.35
11	DMH	1006+57.3 (317.8 LT)	12.92	1.40 (10) 0.92 (STUB)	0.92
12	DMH	1002+82.6 (363.9 LT)	11.80	0.20	0.20
13	DMH	1002+28.2 (357.2 LT)	11.68	-0.13	CONNECT TO EXISTING STUB
15	DMH	1010+95.3 (136.5 LT)	12.71	3.75	3.75
16	DMH	1013+95.4 (136.9 LT)	13.08	5.25	5.25



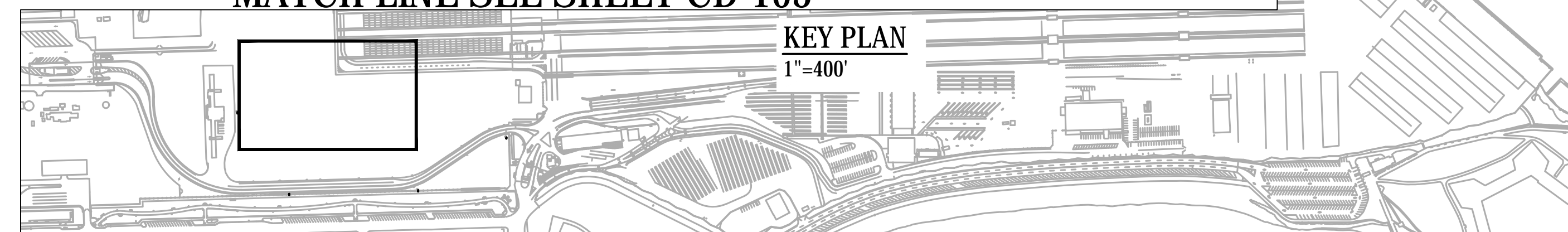
INSET A

MATCH LINE SEE INSET A



MATCH LINE SEE SHEET CD-103

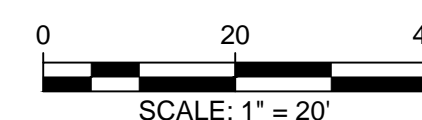
KEY PLAN
1" = 400'



MATCH LINE SEE SHEET CD-102

NOTES:

1. SEE SHEET CD-101 FOR NOTES AND LEGEND

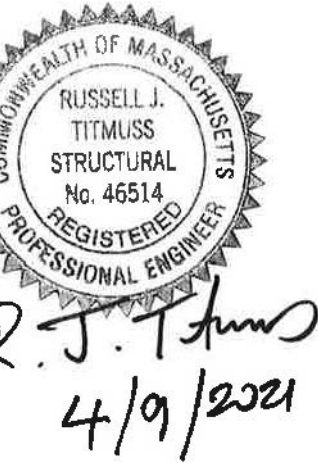


PROJECT LOCATION:
CONLEY TERMINAL
SOUTH BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: M560-C2
LOCATION CODE: 4300

PROJECT SUBMISSION PHASE:
CONTRACT DOCUMENTS

REGISTRATION STAMP:



KEY PLAN:

REVISIONS:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:



CONSULTANT:

PROJECT NUMBER AND TITLE:

M560-C2
NEW CONLEY IN GATE &
OUT GATE FACILITIES

SHEET TITLE:
SOIL STORAGE AREA
ENLARGED PLAN

DRAWING PHASE (PROPOSED)

DISCIPLINE:

CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
JSF	CRB	RJT

SCALE:	DATE:
AS NOTED	MARCH 2021

SHEET NUMBER:

C-103



A **SOIL STORAGE AREA**
SCALE: 1" = 100'

