

# Stormwater Narrative

## 22 Depot Street

### Richmond, Vermont

#### **Project Description**

Jameson Partners LLC is proposing an addition to the existing structure at 22 Depot Street. The existing building is currently occupied by the Giffords Mortuary on the first floor and two residential units on the upper level. The project will expand the west side of the building to include two commercial or retail spaces on the lowest level and 4 new residential dwellings on the second and third floors. The project will add 12 new parking spaces at the back of the building to displace the existing parking and provide a space for each unit.

The project will include 0.07 acres of expanded impervious and 0.10 acres of redevelopment impervious.

#### **Stormwater Strategy**

The project is below the State of Vermont stormwater jurisdiction for an operational permit. Therefore, the stormwater management design focused on compliance with the Town of Richmond Zoning Regulations Section 6.1.6(c) Drainage. The project is required to maintain the post development peak discharge rates of the 25 year, 24 hour storm below the pre-development peak discharge rates for the same storm event.

The site is mapped by the USDA Natural Resources Conservation Service to include infiltrative soils so we performed a test hole and permeability test. The soil investigation proved the mapping to be correct as shown in the testing results provided on plan sheet WS-Post. The stormwater system has been designed to rely on the deep layer of well drain coarse sand. An underground stormwater infiltration chamber system has been designed to capture and infiltrate the 10 year, 24 hour storm event for the drainage area on the parcel. Plan sheet WS-Post shows the drainage area for watershed WS-P2 that is collected by the practice. This includes the new parking lot behind the building, the re-directed roof runoff from the existing building, and the northeastern half of the new building. By infiltrating the 10 year storm the project will reduce the post development peak runoff for the 25 year storm. The hydrologic modeling for the 25 year storm event, calculations, and plans are attached for review.

**Project Name:** 22 Depot Street

**Discharge Point:** 1

**Infiltration Practice #** 1

**Infiltration (4.3.3)**

	Practice Drainage Area	For Permit Coverage	Not for Permit Coverage	Total to Practice
1	Total Area (acres)	0.112	0.000	0.112
2	New Impervious (acres)	0.060	0.000	0.060
3	Redeveloped Impervious	0.093	0.000	0.093
		WQ <sub>V</sub> for credit	WQ <sub>V</sub> not for credit	Total WQ <sub>V</sub>
4	WQ <sub>V</sub> to practice	0.0087	0.0000	0.0087

Modified CN for WQ<sub>V</sub> (1.0") storm: 99

5 Design Volume for Infiltration (T<sub>V</sub>): 0.0000 ← T<sub>V</sub> value to enter on the Standards Compliance Workbook for this practice

6 Practice Type

- Infiltration Basin
- Infiltration Trench
- Infiltration Chambers
- Drywell(s)

Note: If the practice is designed to infiltrate the WQ<sub>V</sub>, then T<sub>V</sub> = WQ<sub>V</sub>. Designers may use the Practice Drainage Area Runoff Calculator (second tab) for calculation of practice-specific runoff volumes for other treatment standards. Sizing of the filter bed area/swale bottom need to consider the desired treatment volume (see treatment section). Some design requirements will change based on the size of storm the practice is designed to treat.

\* Questions preceded by an asterisk (\*) may change based on previously entered values

**Feasibility (4.3.3.1)**

	Response	Attachment location
7	<input type="radio"/> Yes <input type="radio"/> No	
8*	<input type="radio"/> Yes <input type="radio"/> No	
9	<input type="radio"/> Yes <input type="radio"/> No	
10	<input type="radio"/> Yes <input type="radio"/> No	
11	<input type="radio"/> Yes <input type="radio"/> No	
12	<input type="radio"/> Yes <input type="radio"/> No	
13*	<input type="radio"/> Yes <input type="radio"/> No	

**Conveyance (4.3.3.2)**

Response	Attachment location
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14	Have the outfalls and the conveyance to the discharge point been designed/protected to avoid erosive velocities?	<input type="radio"/> Yes <input type="radio"/> No	
15	Is the practice designed to completely dewater the treatment volume ( $T_V$ ) within 48 hours after the storm event?	<input type="radio"/> Yes <input type="radio"/> No	
16	If the practice is designed to infiltrate <1 year storm and runoff is delivered by the main conveyance system, has it been designed as an off-line practice?	<input type="radio"/> Yes <input type="radio"/> No	

<b>Pre-Treatment (4.3.3.3)</b>		<b>Response</b>	<b>Attachment location</b>
17	Has pretreatment been provided for non-rooftop runoff?	<input type="radio"/> Yes <input type="radio"/> No	
18	What type of pretreatment is being used? <input type="checkbox"/> Swale <input checked="" type="checkbox"/> Forebay <input type="checkbox"/> Proprietary <input type="checkbox"/> Filter Strip <input type="checkbox"/> Deep Sump Catch Basins		
19*	Is the infiltration rate ( $f_c$ ) greater than or less than 2 inches per hour?	<input type="radio"/> $\leq 2$ in/hr <input type="radio"/> $> 2$ in/hr	
20*	Is the forebay sized to hold at least 50% of the WQv?	<input type="radio"/> Yes <input type="radio"/> No	
21*	Is the forebay separated at least three (3) feet from the SHGWT or located over impermeable soils?	<input type="radio"/> Yes <input type="radio"/> No	

<b>Treatment (4.3.2.4)</b>		<b>Response</b>	<b>Attachment location</b>
22	Has direct access been provided to the practice for maintenance and rehabilitation?	<input type="radio"/> Yes <input type="radio"/> No	
23*	Has an observation well been installed in every trench, drywell, or subsurface system?	<input type="radio"/> Yes <input type="radio"/> No	
24	What is the physical storage volume up to the overflow? (ac-ft)		Enter this on the eNOI
25	What is the treatment volume provided by the STP? $T_V$ (ac-ft)		

Treatment Volume ( $T_V$ ) for infiltration practices may be calculated using the equations provided as design guidance in Section 4.3.3.5 OR by demonstrating infiltration of the  $T_V$  using TR-20 or an approved equivalent.

<b>Landscaping (4.3.2.5)</b>		<b>Response</b>	<b>Attachment location</b>
26	Does the site plan specify a landscaping plan that ensures dense and vigorous vegetation over the contributing pervious drainage areas and the practice?	<input type="radio"/> Yes <input type="radio"/> No	

**Attachment location:** Indicate the specific location (i.e. appendix, page, plan sheet) where the requisite support documentation has been provided within the application.

**Practice Drainage Area Runoff Calculator**

Project Name: 22 Depot Street Total WS

Discharge Point: 1

Infiltration Practice # 1

This tool may be used to calculate the required treatment volumes for the area draining to an individual practice where the practices drainage area is only a portion of of the area draining to a discharge point. Where the practice receives runoff from the entire area to a discharge point, this calculator will give the same information as the Standards Compliance Workbook.

**Precipitation Data**

\* Precipitation values shall be obtained from [NOAA Atlas 14](#)

Storm	WQ Storm	1 yr, 24 hr	10 yr, 24 hr	100 yr, 24 hr
Precipitation (inches)	1.00	1.98	3.49	5.28

**Drainage Area Information**

Pre Development Land Use (acres)

Landuse	Hydrologic Soil Group				Total (acres)
	A	B	C	D	
Grass	0.107	0.000	0.000	0.000	0.107
Meadow	0.000	0.000	0.000	0.000	0.000
Woods	0.000	0.000	0.000	0.000	0.000
Pavement, roofs, and other impervious	0.166	0.000	0.000	0.000	0.166
<b>Total</b>	<b>0.273</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.273</b>

Post Development Land Use (acres)

Landuse	Hydrologic Soil Group				Total (acres)
	A	B	C	D	
Grass	0.056	0.000	0.000	0.000	0.056
Meadow	0.000	0.000	0.000	0.000	0.000
Woods	0.000	0.000	0.000	0.000	0.000
Pavement, roofs, and other impervious	0.217	0.000	0.000	0.000	0.217
<b>Total</b>	<b>0.273</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.273</b>

T<sub>v</sub> of upstream practices: 0.000 ac-ft

T<sub>v</sub> credit of this practice: 0.000 ac-ft

Treatment Standard	Required Treatment Volume	Post Development Runoff Volume	Pre-development Runoff Volume	Post Composite CN (to practice)	CN <sub>Adj</sub> (with T <sub>v</sub> practice credit)	Pre Composite CN
Channel Protection (Hydrologic Condition Method)	0.0075	0.0317	0.0243	94	94	90
Overbank Flood	0.0138	0.0589	0.0451	92	92	85
Extreme Flood	0.0203	0.0924	0.0721	89	89	80

**Information for Calculating T<sub>c</sub> by the Watershed Lag Method**

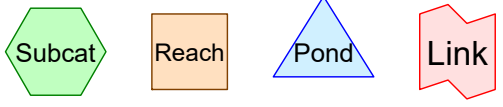
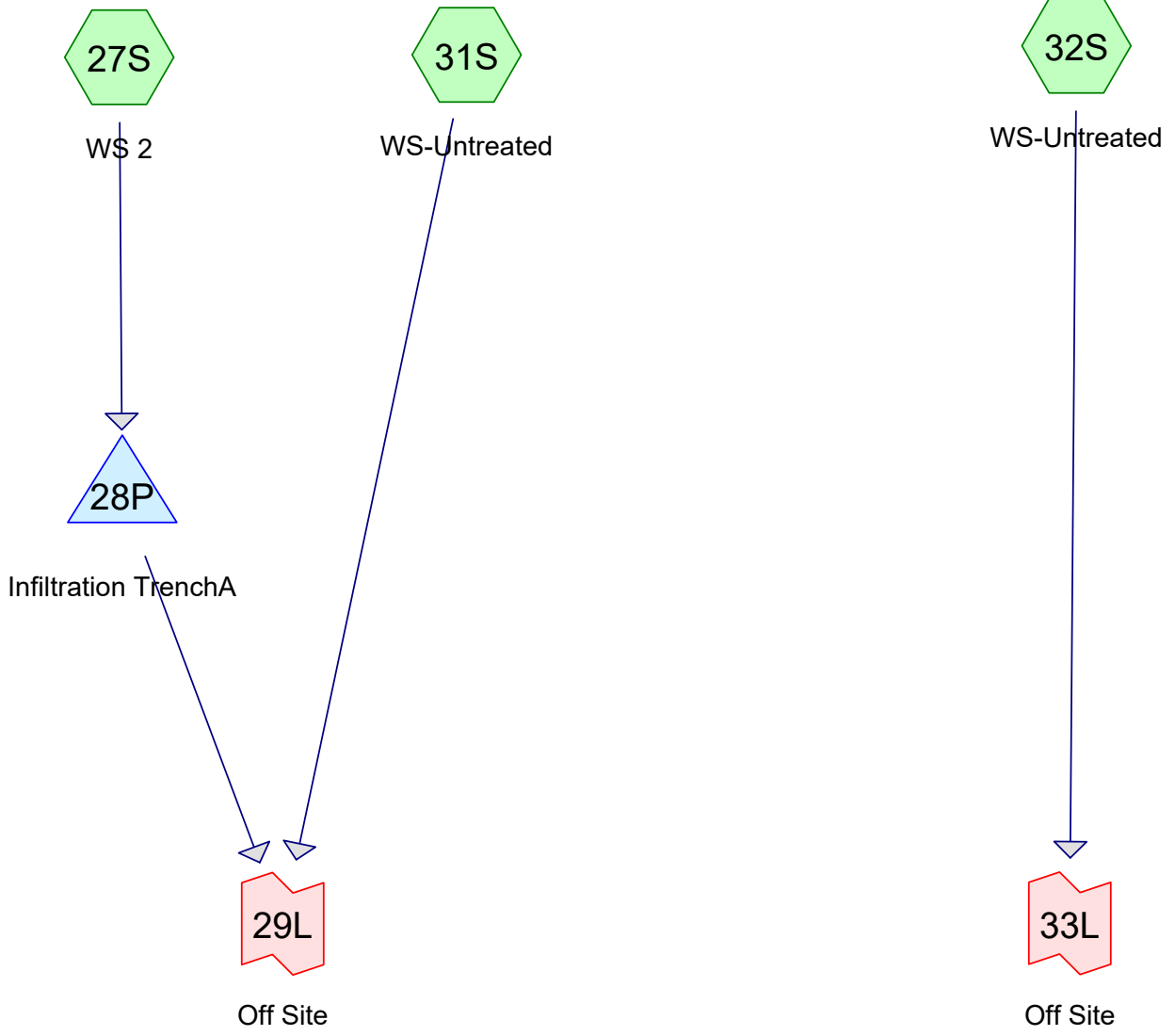
Average Catchment	Hydraulic	Time of Concentration, T <sub>c</sub> (min)
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	Slope, Y (%)	Length, l (ft)	1 yr	10 yr	100 yr
Pre Development	5.50%	181.00	2.4	3.0	3.4
Post Development, upstream of practice	5.50%	94.00	1.2	1.3	1.5
Post Development, with $T_v$ credit from practice	0.00%	0.00	0.0	0.0	0.0

22 Depot Street, Richmond

25YR Storm Post

25YR Storm Pre



## 22 Depot Storm

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### Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.208	95	Worksheet (27S)
0.338	90	Worksheet (31S, 32S)
<b>0.546</b>	<b>92</b>	<b>TOTAL AREA</b>

## 22 Depot Storm

Type II 24-hr 25 Year Rainfall=4.19"

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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-Q  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

<b>Subcatchment27S: WS 2</b>	Runoff Area=0.208 ac 0.00% Impervious Runoff Depth=3.62" Tc=1.1 min CN=95 Runoff=1.39 cfs 0.063 af
<b>Subcatchment31S: WS-Untreated</b>	Runoff Area=0.065 ac 0.00% Impervious Runoff Depth=3.10" Tc=1.5 min CN=90 Runoff=0.39 cfs 0.017 af
<b>Subcatchment32S: WS-Untreated</b>	Runoff Area=0.273 ac 0.00% Impervious Runoff Depth=3.10" Tc=3.1 min CN=90 Runoff=1.57 cfs 0.071 af
<b>Pond 28P: Infiltration TrenchA</b>	Peak Elev=329.56' Storage=926 cf Inflow=1.39 cfs 0.063 af Discarded=0.07 cfs 0.058 af Primary=0.95 cfs 0.005 af Outflow=1.02 cfs 0.063 af
<b>Link 29L: Off Site</b>	Inflow=1.22 cfs 0.022 af Primary=1.22 cfs 0.022 af
<b>Link 33L: Off Site</b>	Inflow=1.57 cfs 0.071 af Primary=1.57 cfs 0.071 af

**Total Runoff Area = 0.546 ac Runoff Volume = 0.150 af Average Runoff Depth = 3.30"**  
**100.00% Pervious = 0.546 ac 0.00% Impervious = 0.000 ac**



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Type II 24-hr 25 Year Rainfall=4.19"

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## Summary for Subcatchment 27S: **WS 2**

Runoff = 1.39 cfs @ 11.91 hrs, Volume= 0.063 af, Depth= 3.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
Type II 24-hr 25 Year Rainfall=4.19"

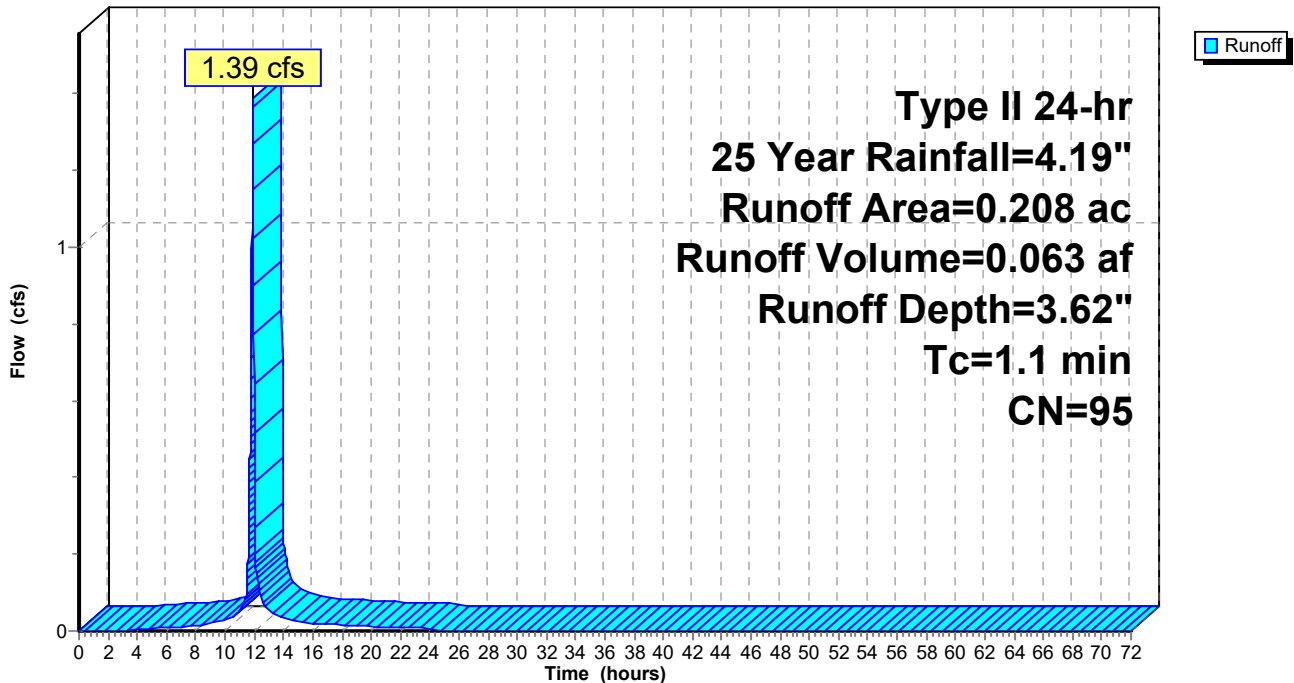
Area (ac)	CN	Description
* 0.208	95	Worksheet
0.208		100.00% Pervious Area

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

### Subcatchment 27S: WS 2

Hydrograph



**22 Depot Storm**

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Type II 24-hr 25 Year Rainfall=4.19"

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**Summary for Subcatchment 31S: WS-Untreated**

Runoff = 0.39 cfs @ 11.92 hrs, Volume= 0.017 af, Depth= 3.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
Type II 24-hr 25 Year Rainfall=4.19"

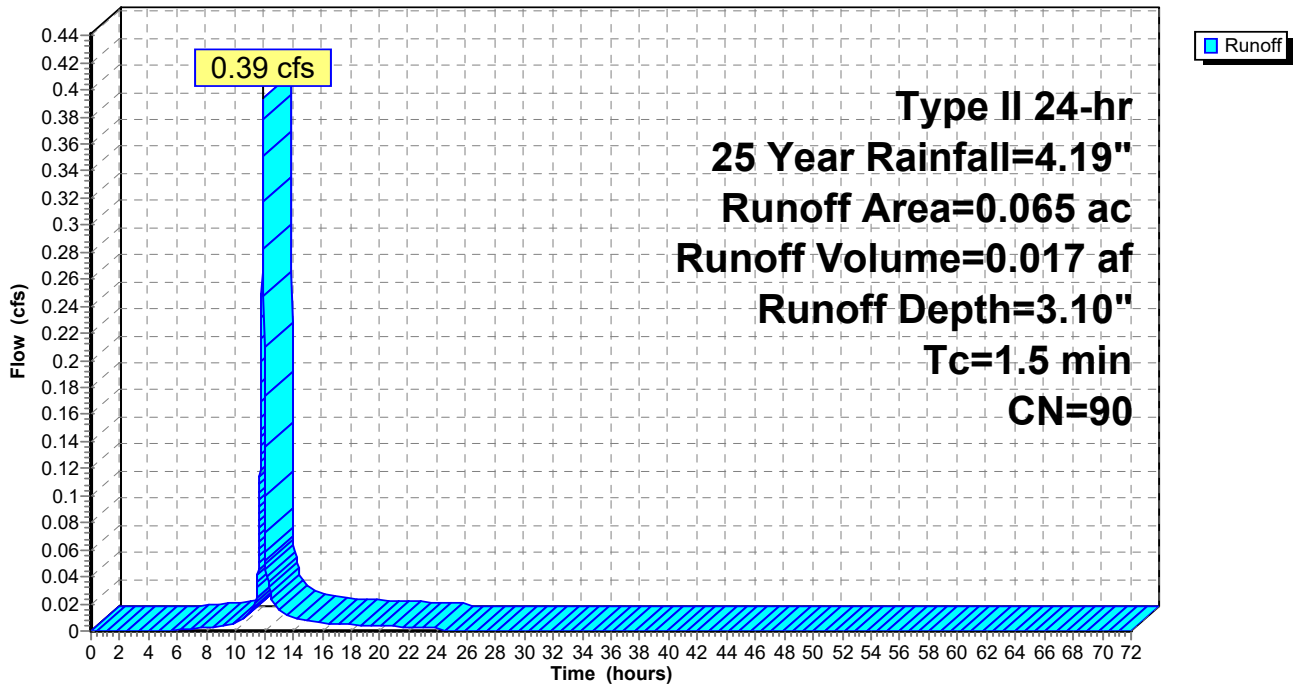
Area (ac)	CN	Description
* 0.065	90	Worksheet
0.065		100.00% Pervious Area

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

**Subcatchment 31S: WS-Untreated**

Hydrograph



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Type II 24-hr 25 Year Rainfall=4.19"

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## Summary for Subcatchment 32S: WS-Untreated

Runoff = 1.57 cfs @ 11.94 hrs, Volume= 0.071 af, Depth= 3.10"

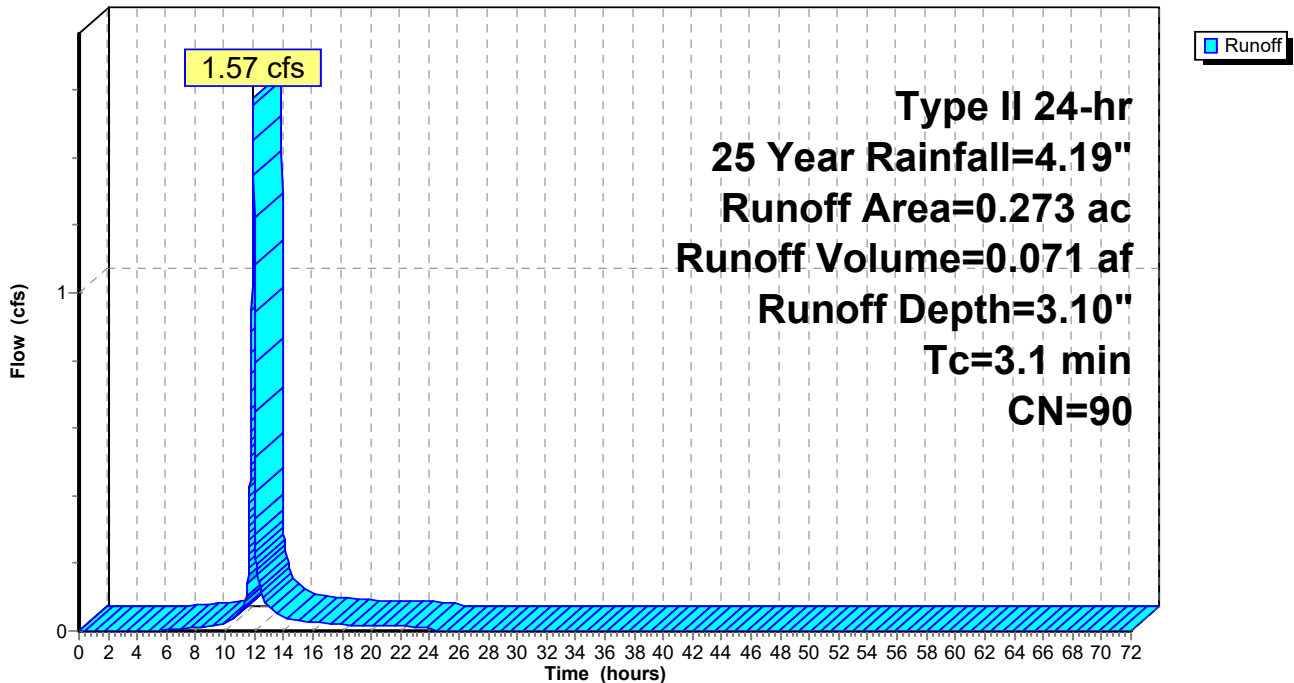
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
Type II 24-hr 25 Year Rainfall=4.19"

Area (ac)	CN	Description
* 0.273	90	Worksheet
0.273		100.00% Pervious Area

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

## Subcatchment 32S: WS-Untreated

Hydrograph



## 22 Depot Storm

Type II 24-hr 25 Year Rainfall=4.19"

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### Summary for Pond 28P: Infiltration TrenchA

Inflow Area = 0.208 ac, 0.00% Impervious, Inflow Depth = 3.62" for 25 Year event  
 Inflow = 1.39 cfs @ 11.91 hrs, Volume= 0.063 af  
 Outflow = 1.02 cfs @ 11.96 hrs, Volume= 0.063 af, Atten= 27%, Lag= 3.1 min  
 Discarded = 0.07 cfs @ 11.25 hrs, Volume= 0.058 af  
 Primary = 0.95 cfs @ 11.96 hrs, Volume= 0.005 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs / 2  
 Peak Elev= 329.56' @ 11.96 hrs Surf.Area= 377 sf Storage= 926 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 86.3 min ( 851.3 - 765.0 )

5 chambers  
 Provided

Volume	Invert	Avail.Storage	Storage Description
#1	329.45'	8 cf	<b>Custom Stage Data (Prismatic)</b> Listed below (Recalc)
#2A	323.95'	340 cf	<b>7.42'W x 40.62'L x 4.75'H Field A</b> 1,431 cf Overall - 581 cf Embedded = 850 cf x 40.0% Voids
#3A	324.45'	581 cf	<b>ADS_StormTech MC-3500 c +Cap x 5</b> Inside #2 Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap Cap Storage= +15.6 cf x 2 x 1 rows = 31.2 cf
		929 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
329.45	10	0	0
329.60	100	8	8

Device	Routing	Invert	Outlet Devices
#1	Discarded	323.95'	<b>10.000 in/hr Exfiltration over Surface area below 323.96'</b>
#2	Primary	329.45'	<b>10.0' long x 4.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

**Discarded OutFlow** Max=0.07 cfs @ 11.25 hrs HW=324.01' (Free Discharge)  
 ↑1=Exfiltration (Exfiltration Controls 0.07 cfs)

**Primary OutFlow** Max=0.82 cfs @ 11.96 hrs HW=329.56' (Free Discharge)  
 ↑2=Broad-Crested Rectangular Weir (Weir Controls 0.82 cfs @ 0.77 fps)

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Type II 24-hr 25 Year Rainfall=4.19"

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### Pond 28P: Infiltration TrenchA - Chamber Wizard Field A

**Chamber Model = ADS\_StormTech MC-3500 c +Cap (ADS StormTech® MC-3500 c rev 05/12 with Cap storage)**

Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf

Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap

Cap Storage= +15.6 cf x 2 x 1 rows = 31.2 cf

5 Chambers/Row x 7.17' Long +1.88' Cap Length x 2 = 39.62' Row Length +6.0" End Stone x 2 = 40.62' Base Length

1 Rows x 77.0" Wide + 6.0" Side Stone x 2 = 7.42' Base Width

6.0" Base + 45.0" Chamber Height + 6.0" Cover = 4.75' Field Height

5 Chambers x 110.0 cf + 15.6 cf Cap Volume x 2 x 1 Rows = 581.0 cf Chamber Storage

1,430.9 cf Field - 581.0 cf Chambers = 849.9 cf Stone x 40.0% Voids = 340.0 cf Stone Storage

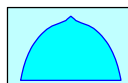
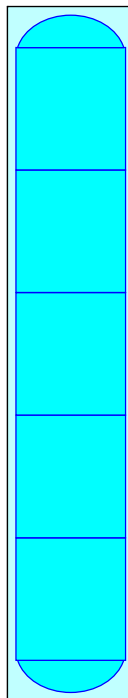
Chamber Storage + Stone Storage = 920.9 cf = 0.021 af

Overall Storage Efficiency = 64.4%

5 Chambers

53.0 cy Field

31.5 cy Stone



**22 Depot Storm**

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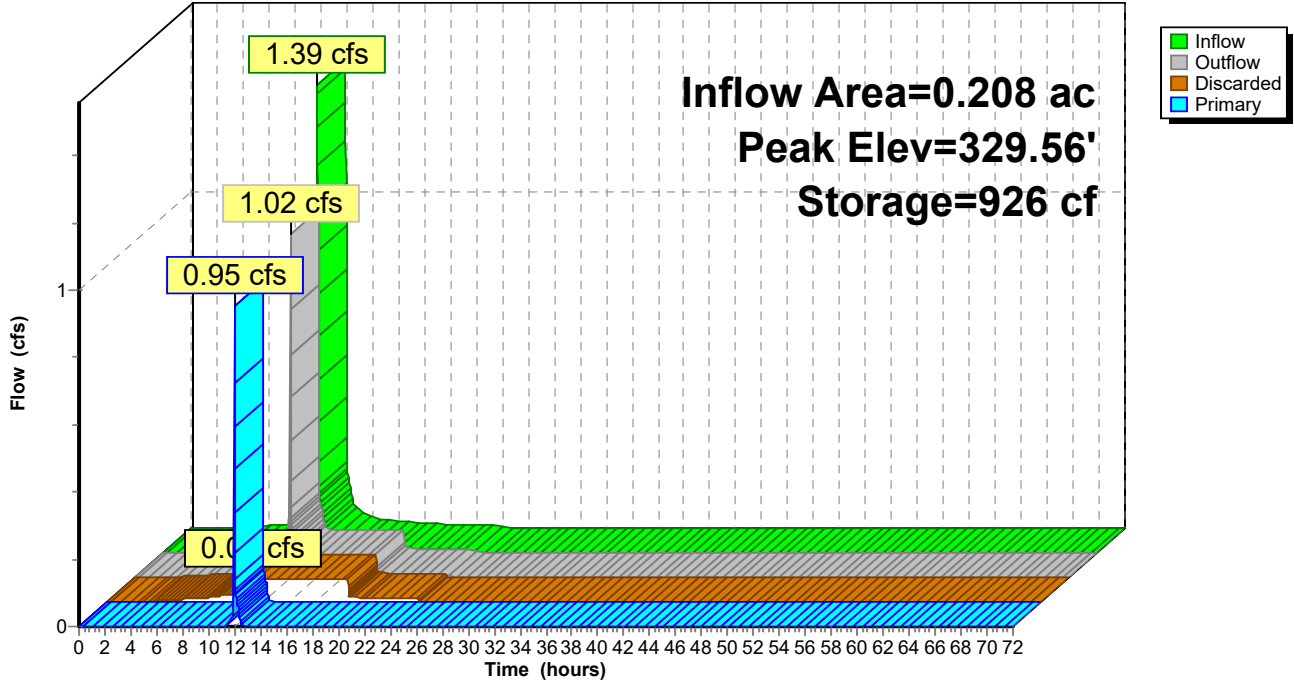
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**Pond 28P: Infiltration TrenchA**

Hydrograph



Post development peak discharge rate for 25 year storm = 1.22 cfs. Less than pre development peak

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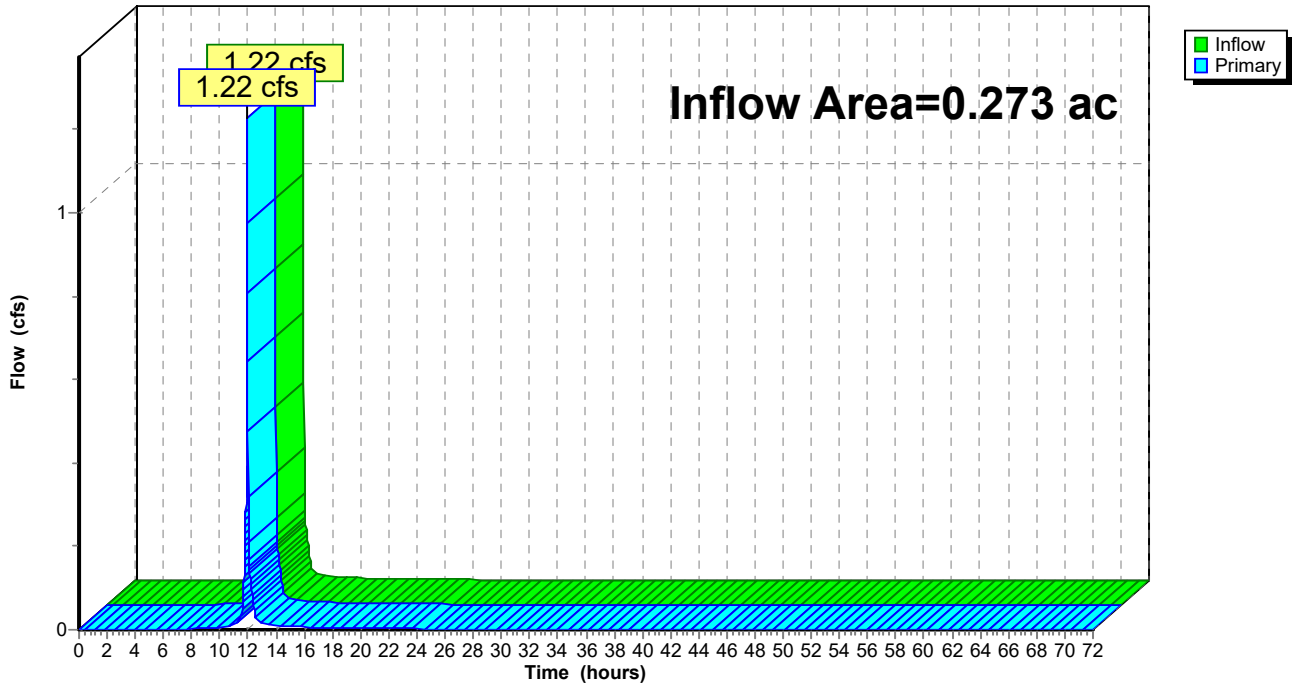
### Summary for Link 29L: Off Site

Inflow Area = 0.273 ac, 0.00% Impervious, Inflow Depth = 0.96" for 25 Year event  
Inflow = 1.22 cfs @ 11.96 hrs, Volume= 0.022 af  
Primary = 1.22 cfs @ 11.96 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link 29L: Off Site

Hydrograph



Pre development peak discharge rate for 25 year storm = 1.57 cfs.

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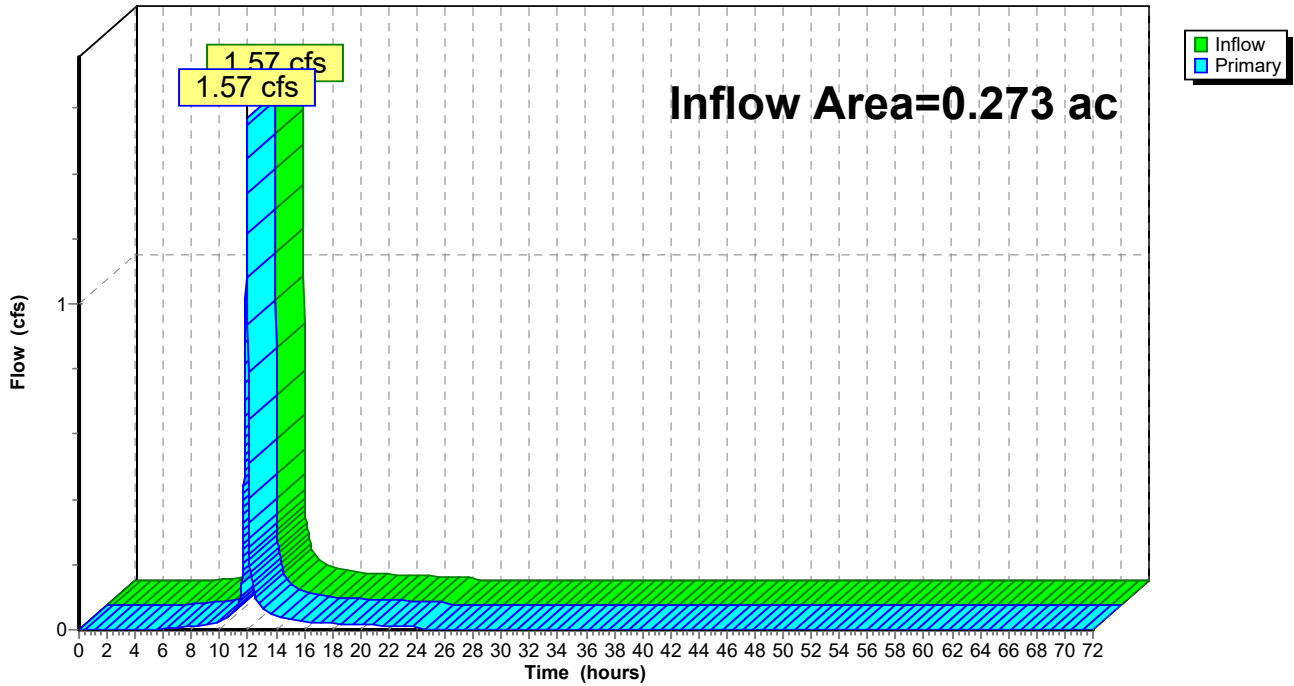
### Summary for Link 33L: Off Site

Inflow Area = 0.273 ac, 0.00% Impervious, Inflow Depth = 3.10" for 25 Year event  
Inflow = 1.57 cfs @ 11.94 hrs, Volume= 0.071 af  
Primary = 1.57 cfs @ 11.94 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min

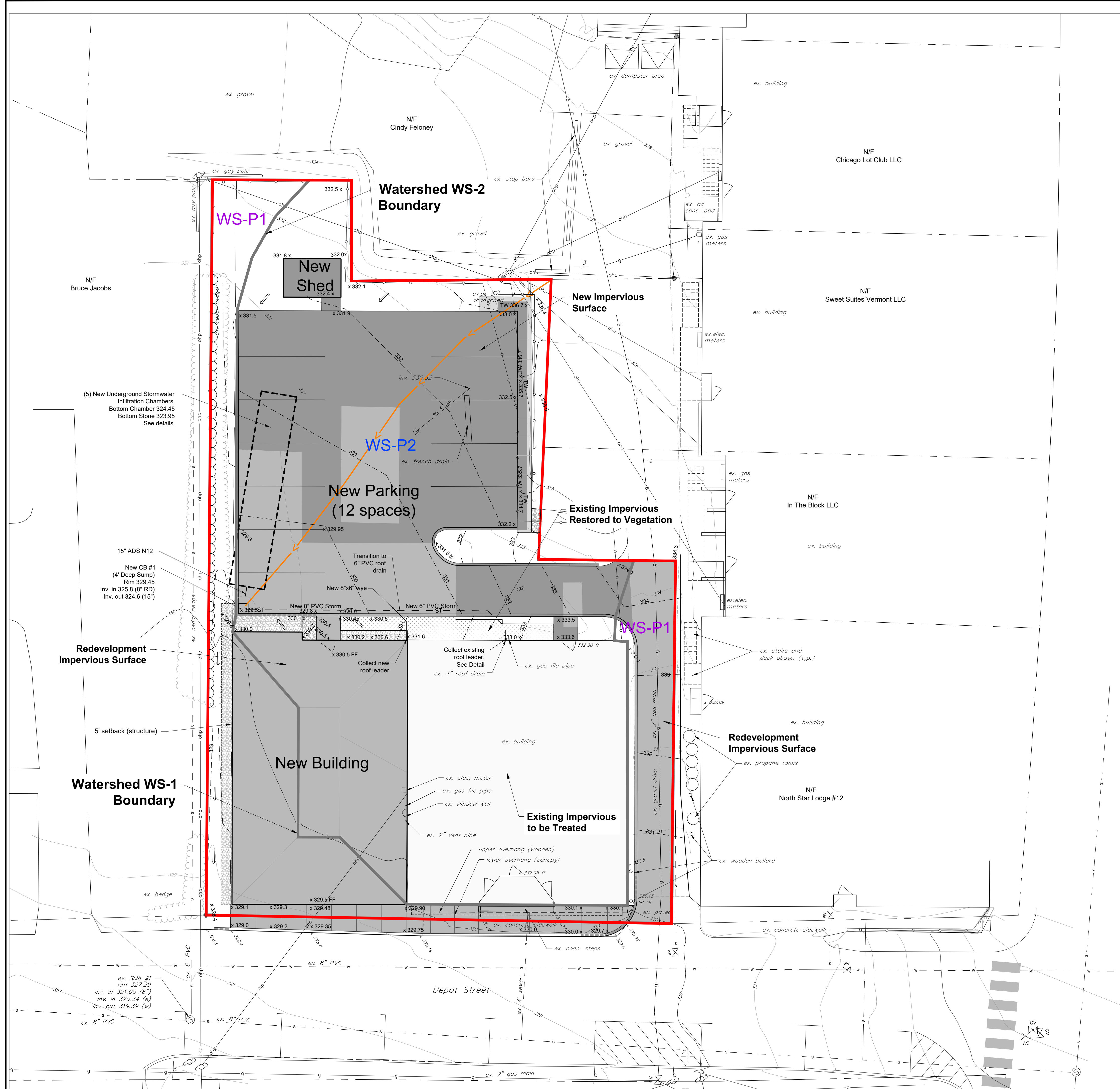
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link 33L: Off Site

Hydrograph







Soil Test Pit Log  
 22 Depot Street  
 22 Depot St, Richmond Vermont

Date: March 16, 2023  
 Weather: 38° F, clouds  
 Present: Cameron Goodrich, Krebs & Lansing Consulting Engineers, Inc.

NLTD = no ledge to depth  
 NWTD = no water to depth  
 HSWT = high seasonal water table

**TP-1**  
 0" - 12" 10YR 3/3 Dark Brown, gravelly loamy sand, 25% gravels, loose single grain, structureless, some decaying cobbles, roots, worms  
 12" - 28" 10YR 5/6 Yellowish Brown, fine loamy sand, single grain, loose, structureless, few roots, few decaying cobbles  
 28" - 43" 2.5Y 5/4 Light Olive Brown, fine loamy sand, single grain, loose, few roots  
 43" - 48" 2.5YR 5/3 Light Olive Brown, fine sand, structureless, single grain, loose, prominent redox band at @48" interface  
 48" - 64" 2.5YR 5/3 Light Olive Brown, fine sand, structureless, single grain, loose, evidence of redox throughout layer, pockets of damp fine loamy sand  
 64" - 97" 2.5Y 4/4 Olive Brown, very coarse sandy, single grain, loose, structureless, salt and pepper sand, clean. No evidence of redox to depth suggests a perched water table above  
 NLTD, NWTD  
 HSWT Not Observed

**INFILTRATION TESTING**

Project Name: 22 Depot Street  
 Testing By: CPG  
 Date: 3/16/2023  
 Depth of Test: 36 inches

Infiltration Testing using Borehole Infiltration Test per 2017 VSWMM Section 4.3.2.5  
 \* Alternative pre-soaking procedure per "Oregon State publication" was used

\*\* The lowest rate of the 4 infiltration tests performed at each Test Site  
 \*\*\* Using Factor of Safety of 2, Design Rate = Lowest Rate/2

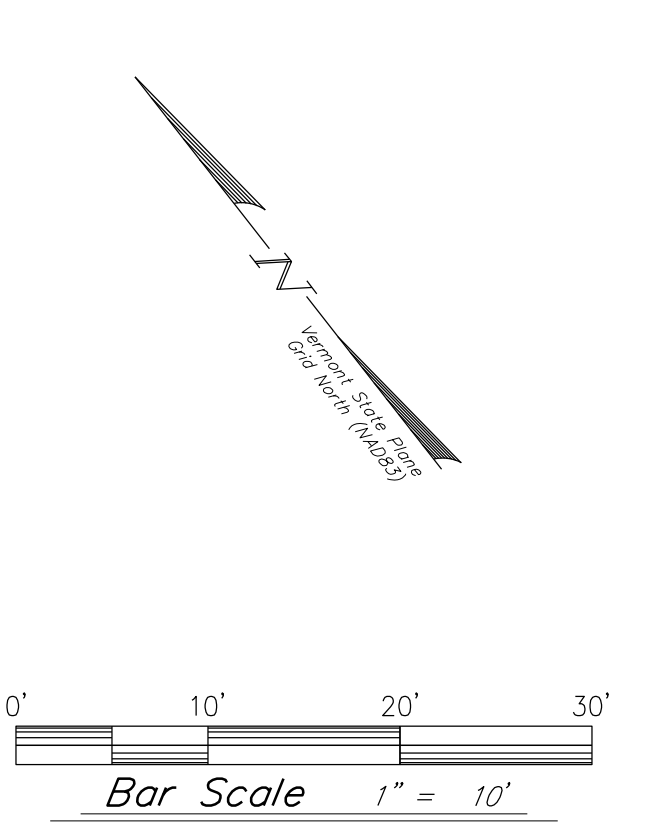
Test #	Lowest Rate** (in/hr)	Design Rate*** (in/hr)
IT-1	20	10

*Impervious Area Legend*

- NEW Impervious Areas
- Redevelopment Impervious
- EXISTING to be Treated
- Existing Impervious RESTORED to vegetation
- Watershed Limit
- Site Area Limits
- Post Development TC



STAMP:



Project:  
 22 Depot Street  
 Mixed Use Addition

Richmond, Vermont

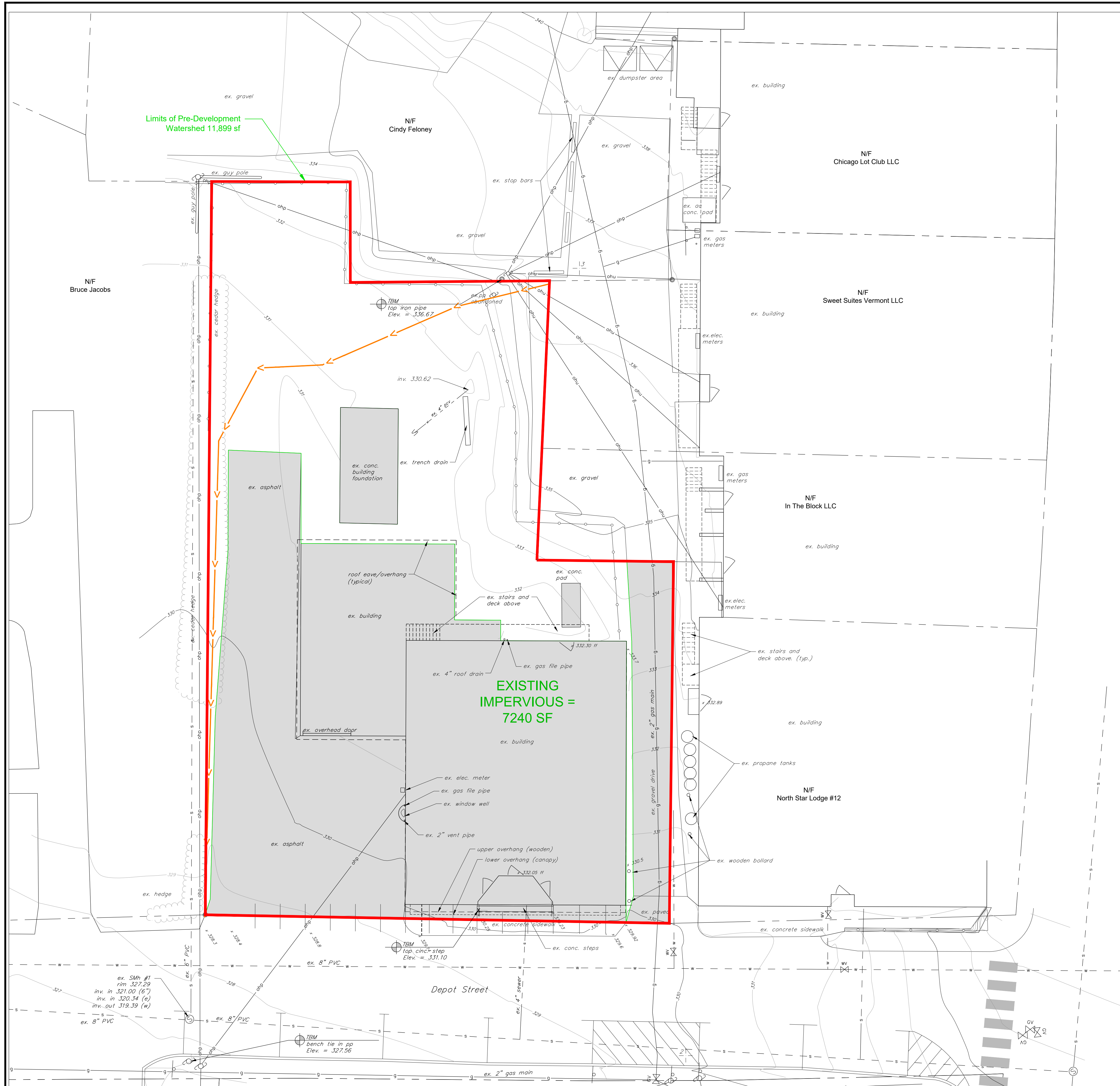
Project No. 22280  
 Scale 1" = 10'  
 Drawn by CPG  
 Checked by  
 Date 04/27/2023

Revisions	No.	Date	Description

Drawing Title  
 Post Development  
 Watershed Plan

Drawing No.  
**WS-POST**



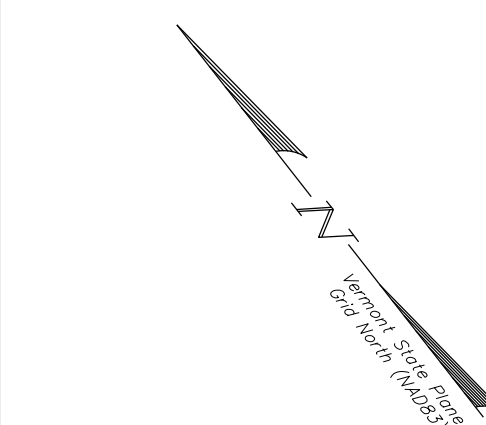


Limits of Pre-Development Watershed 11,899 sf

EXISTING IMPERVIOUS = 7240 SF

-  Existing Impervious
-  Pre Development TC
-  Watershed Limit
-  Site Area Limits

STAMP:



Project:

22 Depot Street  
Mixed Use Addition

Richmond, Vermont

Project No.	22280
Scale	1" = 10'
Drawn by	CPG
Checked by	
Date	04/27/2023

Revisions

No.	Date	Description

Drawing Title

Pre Development  
Watershed Plan

Drawing No.

**WS-PRE**