

STORMWATER MANÅGEMENT REPORT

for

FULFILL FOOD BANK

Located at

BLOCK 2301, LOT 1

In

TOWNSHIP OF NEPTUNE MONMOUTH COUNTY, NJ

Has been prepared for

FOOD BANK OF MONMOUTH & OCEAN COUNTY 3300 ROUTE 66 TOWNSHIP OF NEPTUNE, NJ 07753

on

May 10, 2023 Rev. 1 – August 25, 2023 Rev. 2 – September 27, 2023 Rev. 3 – October 20, 2023 Rev. 4 – January 10, 2024 Rev. 5 – March 8, 2024

Bernsti hin

Christopher M. Bednarski, PE NJPE 24GE05256400

Insite Job #: 23-2111-01

InSite Engineering, LLC

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I. INTRODUCTION:

The subject property is known and designated as Block 2301, Lot 1, as shown on Sheet 23 of the current tax assessment maps for the Township of Neptune, Monmouth County, New Jersey. The vacant tract consists of 7.21 acres and is currently occupied by an existing food bank with associated loading and parking areas. The project site bound by New Jersey State Highway Route 66 and Wayside Road. The project proposes three additions to the main structure and an additional pavement section. The existing impervious coverage is 37.3% (2.68 ac. out of 7.21 ac.). The proposed impervious coverage is 40.5% (2.92 ac. out of 7.21 ac.).

The existing soils are labeled as EvuB (Evesboro-Urban land complex, 0 to 5 percent slopes). The Hydrologic soil group for this type of soil is listed in the Soil Conservation Service Technical Release No. 55 manual as HSG type A, see Appendix AI.

The following 24-hour storm events were studied using a NOAA, Type D Storm distribution:

Storm Frequency	Rainfall
(Years)	(Inches)
2	3.46
10	5.36
25	6.70
100	9.18

II. <u>PRE-DEVELOPMENT CONDITIONS:</u>

A summary of the previously discussed drainage areas for the pre-development condition follows below. Refer to the Appendix B for Pre-Development Hydrograph calculations and Appendix D for Pre-Development Drainage Area Map.

Existing Watershed A (Total Area 7.21 acres)
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Subarea Ei:	Impervious area
	Area: 2.68 acres

Subarea Ep:

Area. 2.00 deres

Pervious area Area: 4.53 acres

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III. <u>POST-DEVELOPMENT CONDITIONS:</u>

A summary of the previously discussed drainage areas for the post-development condition follows below. Refer to Appendix C for Post-Development Hydrograph calculations and Appendix E for a Post-Drainage Area Map.

Proposed Watershed A (Total Area 7.21 acres)

Subarea Pi:	Impervious Area Area: 2.92 acres
Subarea Pp:	Pervious Area Area: 4.29 acres

IV. STORMWATER MANAGEMENT SUMMARY:

Pre- and Post-development computations for the resultant hydrographs, routing computations, and runoff volumes are appended, respectively, to this report. For each drainage area, the following summaries were generated:

<u>Watershed A</u> Pre-development: Subareas Ei and Ep (7.21 ac) Post-development: Subareas Pi and Pp (7.21 ac.)

Storm (Year)	Pre- Development Peak Flow (cfs)	Post- Development Peak Flow (cfs)	Difference
2	8.82	9.60	+0.78
10	13.75	14.96	+1.21
25	18.63	20.07	+1.44
100	30.99	32.68	+1.69

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V. STORMWATER ANALYSIS SUMMARY:

Existing runoff from the site is directed to an infiltration basin along the west property line and drains to the existing stormwater system along the NJ Route 66 right-of-way. The system has been properly designed to provide sufficient capacity to manage runoff from the site. Currently, the project site consists of 7.21 acres and is currently developed. The existing site is mostly pervious, containing 4.53 acres of pervious coverage and only 2.68 acres of impervious coverage. Of that impervious coverage, 1.59 acres are regulated motor vehicle surface. The proposed development will have a total impervious coverage of 2.92 acres. Of that impervious coverage, 1.58 acres will be regulated motor vehicle surface. The proposed development will be regulated motor vehicle surface. The vehicle surface and net increase of only 0.238 acres of new impervious areas.

As the proposed development does not result in a disturbance of greater than one (1) acre and does not increase regulated motor vehicle surfaces or overall impervious coverage by more than 0.25 acres, the project is not considered a 'major development' by New Jersey Stormwater Management regulations NJAC 7:8-5. Therefore, the project will not require additional storm water management measures.

VI. WATER QUALITY DISCUSSION

As discussed in Section V, this project is not considered a 'major development', therefore, stormwater runoff quality treatment is not required.

Construction activities may introduce suspended sediment into localized water in nearby areas, but this will be temporary in nature, occurring during the construction phase of the project. To preserve water quality during construction, soil erosion and sediment control measures will be implemented as part of an approved Soil Erosion and Sediment Control Plan.

VII. <u>GROUNDWATER RECHARGE DISCUSSION</u>

Groundwater recharge for the site is not required per N.J.A.C. 7:8-5.4a2 since the project lies within a previously developed Metropolitan Planning Area (PA-1).

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VIII. <u>CONCLUSION</u>

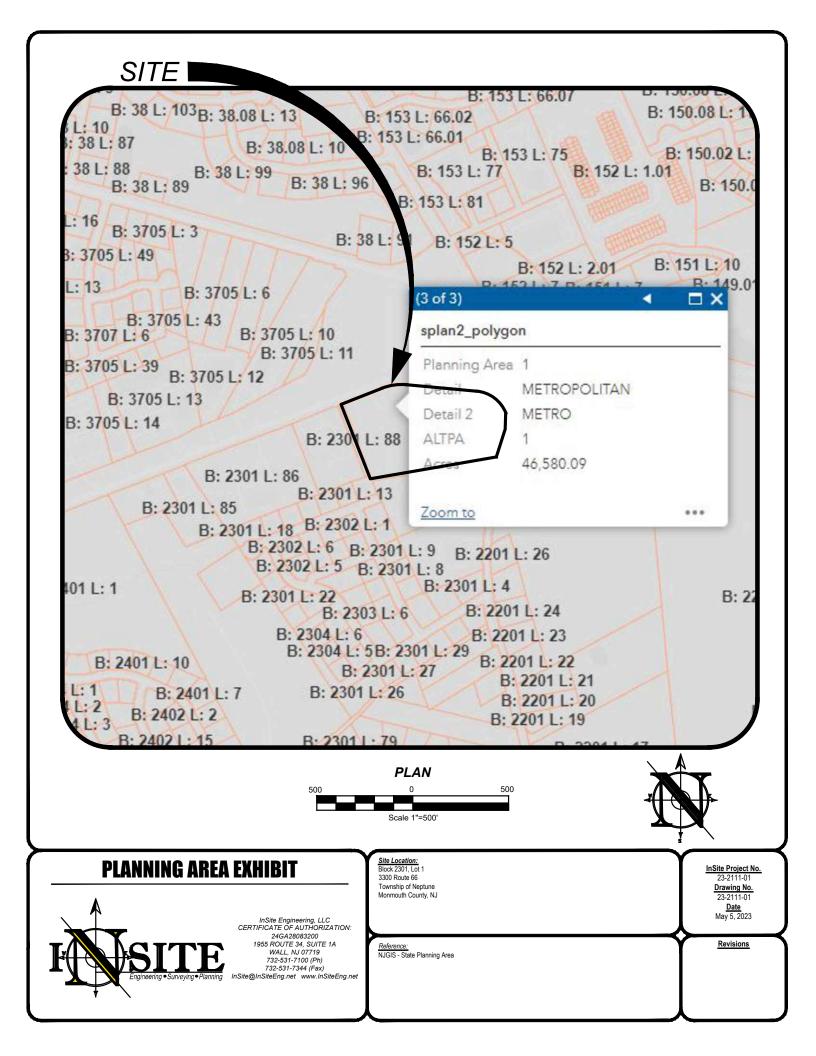
The proposed development will result in a slight increase of impervious coverage by 0.238 acres. This increase of impervious coverage will not cause any significant changes in stormwater runoff from the site. The limited grading efforts do not change any of the existing drainage patterns to maintain site stability throughout. The slight increase in flows for the 2-year, 10-year, 25-year, and 100-year storm events are de minimis and will not negatively affect the downstream drainage system and, therefore, no additional stormwater management improvements are needed. The site has been designed to properly and safely convey runoff from the proposed project and will meet the requirements of the Township of Neptune and the State of New Jersey.

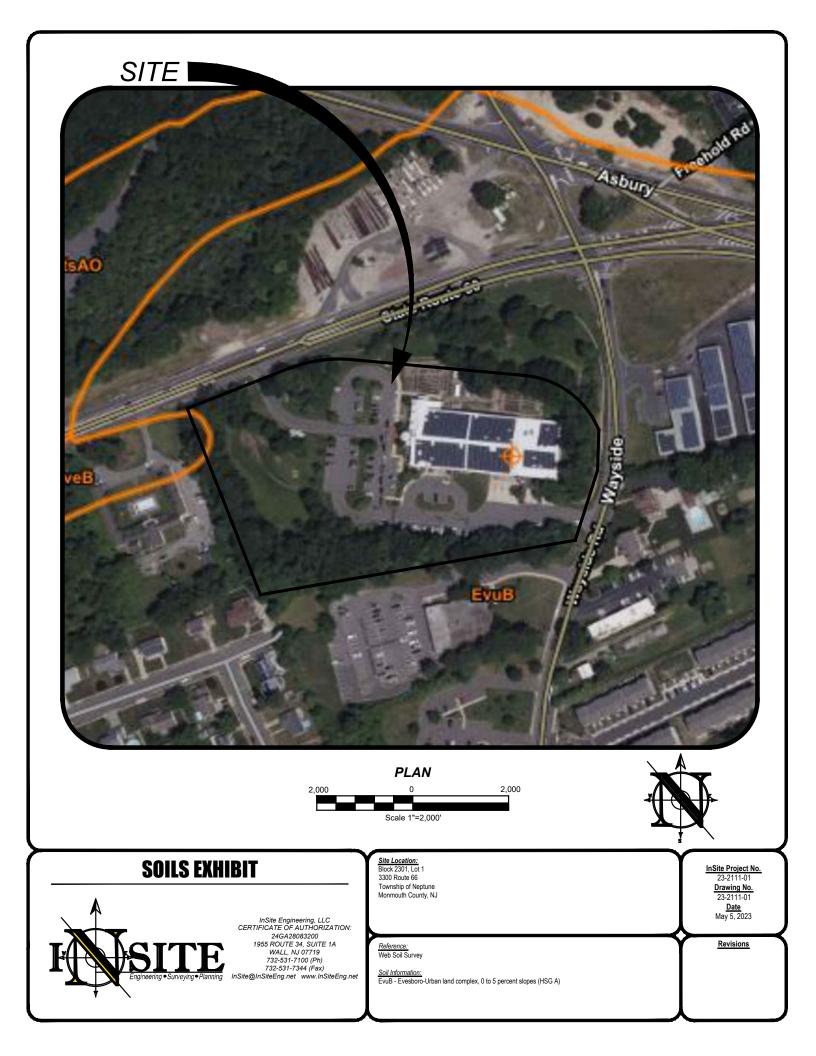
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APPENDIX A

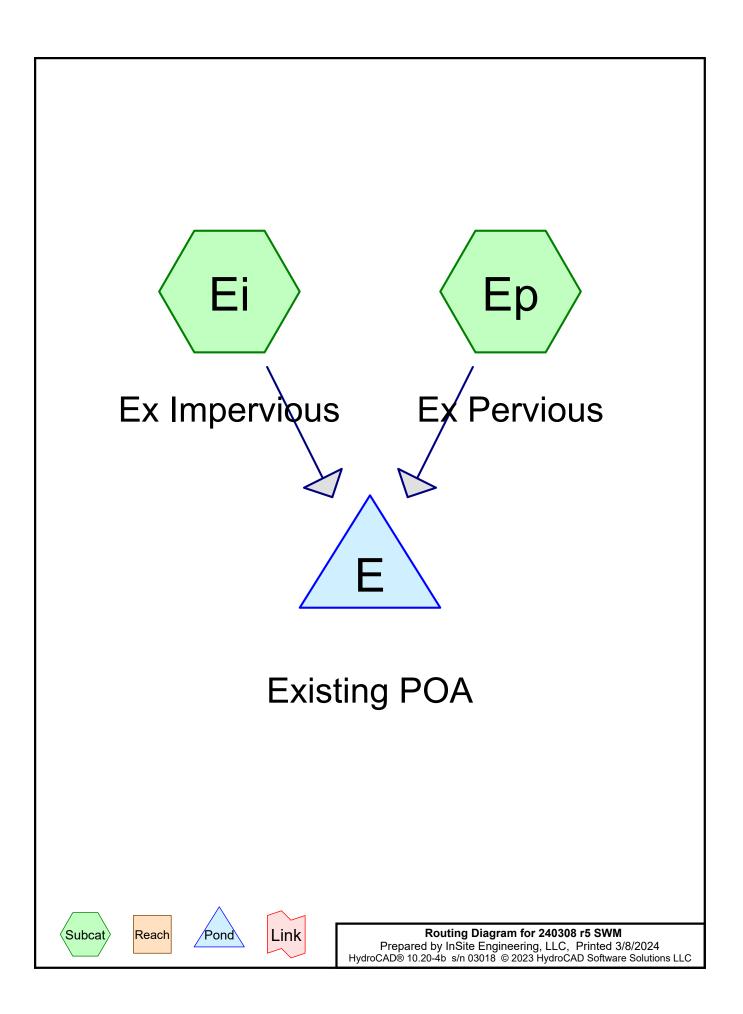
MAP EXHIBITS AI. Soils Map AII. Planning Area Map





APPENDIX B

Pre-Development Flow Calculations



240308 r5 SWM Prepared by InSite Engineering, LLC HydroCAD® 10.20-4b s/n 03018 © 2023 Hy		2-Year Rainfall=3.46" Printed 3/8/2024 Page 2		
Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv. Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method				
Subcatchment Ei: Ex Impervious	Runoff Area=116,969 sf 100.00% Impe Tc=6.0 min CN=0/98	rvious Runoff Depth=3.23" 8 Runoff=8.82 cfs 0.722 af		
Subcatchment Ep: Ex Pervious	Runoff Area=197,170 sf	rvious Runoff Depth=0.01" Runoff=0.01 cfs 0.003 af		
Pond E: Existing POA		Inflow=8.82 cfs 0.725 af Primary=8.82 cfs 0.725 af		
Total Runoff Area = 7.21		rage Runoff Depth = 1.21" 3% Impervious = 2.685 ac		

Summary for Subcatchment Ei: Ex Impervious

Runoff = 8.82 cfs @ 12.13 hrs, Volume= 0.722 af, Depth= 3.23" Routed to Pond E : Existing POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 2-Year Rainfall=3.46"

	116,969			ed pavemer	
	116,969	98 1	00.00% In	pervious A	Area
Tc nin)	Length (feet)	Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)			
6.0					Direct Entry,
			Sul	ocatchme	ent Ei: Ex Impervious
				Hydrog	graph
1					
9		8.82 cfs			NOAA 24-hr D
8					2-Year Rainfall=3.46"
7-					Runoff Area=116,969 sf
6					Runoff Volume=0.722 af
5					Runoff Depth=3.23"
4-			-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-++-+-		-+-+-+-+-+-+-+-+-+-+ Tc=6.0 min
-				 -	CN=0/98
3-				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2-					
1-					
0-	Intitut				

Summary for Subcatchment Ep: Ex Pervious

Runoff = 0.01 cfs @ 24.01 hrs, Volume= Routed to Pond E : Existing POA

0.003 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 2-Year Rainfall=3.46"

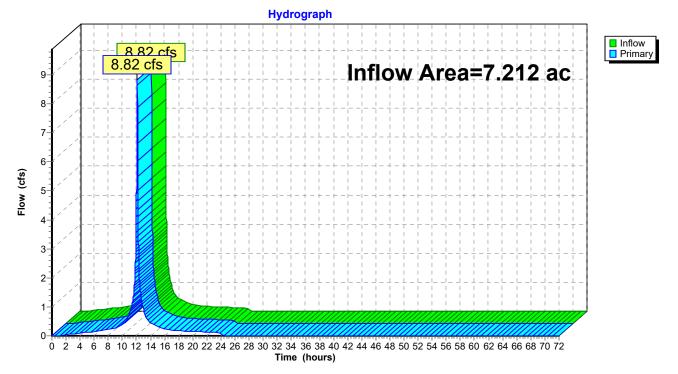
	<u>197,170</u>				od, HSG A	
	197,170	39 1	00.00% Pe	ervious Are	a	
Тс	Length	Slope	Velocity	Capacity	Description	
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)		
6.0					Direct Entry,	
			Su	ıbcatchm	ent Ep: Ex Pervious	
	_			Hydrog	graph	
			 	 <u> + + +</u> - + -		
0.00	7-1		<mark>_0.01</mark>	cfs		
0.00					NOAA 2	4-hr D
0.00					2-Year Rainfall	=3.46"
0.00				- +		i ī i ī i
0.00					Runoff Area=197	
0.00	: /1			-+-+	Runoff Volume=0.	.003 af
(j) 0.00					Runoff Depth	=0.01"
0.00 (cts) 0.00 0.00 0.00	- 	$-\frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1}$			_ I I I I I I I I I I I I I I	.0 min
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0.00	「「大学学生」	$-\frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1}$				N=39/0
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0.00						
0.00	1,4				+ - + - + - + - + - + - + - +	
0.00			- L			
0.00						

Summary for Pond E: Existing POA

Inflow Are	a =	7.212 ac, 37.23% Impervious, Inflow Depth = 1.21" for 2-Year event
Inflow	=	8.82 cfs @ 12.13 hrs, Volume= 0.725 af
Primary	=	8.82 cfs $\hat{@}$ 12.13 hrs, Volume= 0.725 af, Atten= 0%, Lag= 0.0 min

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

Pond E: Existing POA



240308 r5 SWM Prepared by InSite Engineering, LLC <u>HydroCAD® 10.20-4b_s/n 03018_© 2023 Hy</u>	NOAA 24-hr D 10-Year Rainfall=5.36" Printed 3/8/2024 droCAD Software Solutions LLC Page 6
Runoff by SCS TR-2	00-72.00 hrs, dt=0.01 hrs, 7201 points 0 method, UH=SCS, Split Pervious/Imperv. nd method - Pond routing by Dyn-Stor-Ind method
Subcatchment Ei: Ex Impervious	Runoff Area=116,969 sf 100.00% Impervious Runoff Depth=5.12" Tc=6.0 min CN=0/98 Runoff=13.75 cfs 1.146 af
SubcatchmentEp: Ex Pervious	Runoff Area=197,170 sf 0.00% Impervious Runoff Depth=0.28" Tc=6.0 min CN=39/0 Runoff=0.26 cfs 0.105 af
Pond E: Existing POA	Inflow=13.75 cfs 1.251 af Primary=13.75 cfs 1.251 af
Total Runoff Area = 7.21	2 ac Runoff Volume = 1.251 af Average Runoff Depth = 2.08" 62.77% Pervious = 4.526 ac 37.23% Impervious = 2.685 ac

Summary for Subcatchment Ei: Ex Impervious

Runoff = 13.75 cfs @ 12.13 hrs, Volume= 1.146 af, Depth= 5.12" Routed to Pond E : Existing POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 10-Year Rainfall=5.36"

	16,969			ed pavemer		
1	16,969	98 1	00.00% Im	pervious A	rea	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0					Direct Entry,	
			Sub	ocatchme	ent Ei: Ex Impervious	
				Hydrog	graph	
15-	/	3.75 cfs	- + - + - + - + - - + - + - + - + - + - + -			Runo
14- 13-			-+-+-+-+-		NOAA 24-hr D	
13 12-			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	L - L - L - L - L - L - L - L - L - L -	10-Year Rainfall=5.36"	
11			- + - + - + - + - - + - + - + - + - + -		Runoff Area=116,969 sf	
10-			- + - + - + - + -		Runoff Volume=1.146 af	
Flow (cfs)			$-\frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1}$	$\begin{bmatrix} - & - & - & - & - & - & - & - \\ 1 & - & 1 & - & 1 & - & 1 \\ 1 & - & 1 & - & 1 & - & 1 \end{bmatrix}$	Runoff Depth=5.12"	
м 7 7			- + - + - + - + - - ! - ! - ! - ! - !		Tc=6.0 min	
6	/		- + - + - + - + -		CN=0/98	
5-1 4-1			$-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}$			
3						
2						
1-1 0-1						

Summary for Subcatchment Ep: Ex Pervious

Runoff = 0.26 cfs @ 12.54 hrs, Volume= 0 Routed to Pond E : Existing POA

0.105 af, Depth= 0.28"

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 10-Year Rainfall=5.36"

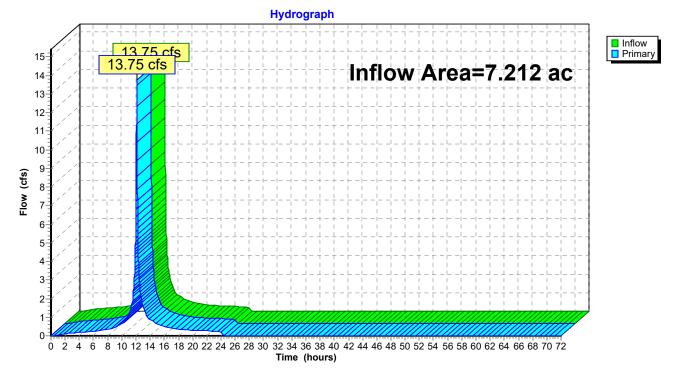
	<u>97,170</u>				ood, HSG A	
1	97,170	39 1	00.00% Pe	ervious Are	а	
Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0				· · · · ·	Direct Entry,	
			Su	bcatchm	ent Ep: Ex Pervious	
				Hydro	graph	
0.28						Runc
0.26		0.26 cfs	S +		NOAA 24-hr D	
0.24			 + - +		10-Year Rainfall=5.36"	
0.22			$\frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
0.2					Runoff Area=197,170 sf	
0.18					Runoff Volume=0.105 af	
0.16 0.14					Runoff Depth=0.28"	
0.12				$-\frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1}$		
0.1					CN=39/0	
0.08						
0.06						
0.04						
0.02						

Summary for Pond E: Existing POA

Inflow Area	a =	7.212 ac, 37.23% Impervious, Inflow Depth = 2.08" for 10-Year event	
Inflow	=	13.75 cfs @ 12.13 hrs, Volume= 1.251 af	
Primary	=	13.75 cfs $\overline{@}$ 12.13 hrs, Volume= 1.251 af, Atten= 0%, Lag= 0.0 min	i -

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

Pond E: Existing POA



240308 r5 SWM Prepared by InSite Engineering, LLC HydroCAD® 10.20-4b s/n 03018 © 2023 Hy		5- Year Rainfall=6.70" Printed 3/8/2024 <u>Page 10</u>
Runoff by SCS TR-2	00-72.00 hrs, dt=0.01 hrs, 7201 points 20 method, UH=SCS, Split Pervious/Imper nd method - Pond routing by Dyn-Stor-Ind	
Subcatchment Ei: Ex Impervious	Runoff Area=116,969 sf 100.00% Impervio Tc=6.0 min CN=0/98 Ri	•
Subcatchment Ep: Ex Pervious	Runoff Area=197,170 sf 0.00% Impervic Tc=6.0 min CN=39/0 F	ous Runoff Depth=0.66" Runoff=1.65 cfs 0.250 af
Pond E: Existing POA		nflow=18.63 cfs 1.696 af mary=18.63 cfs 1.696 af
Total Runoff Area = 7.21		je Runoff Depth = 2.82" Impervious = 2.685 ac

Summary for Subcatchment Ei: Ex Impervious

Runoff = 17.21 cfs @ 12.13 hrs, Volume= 1.446 af, Depth= 6.46" Routed to Pond E : Existing POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 25-Year Rainfall=6.70"

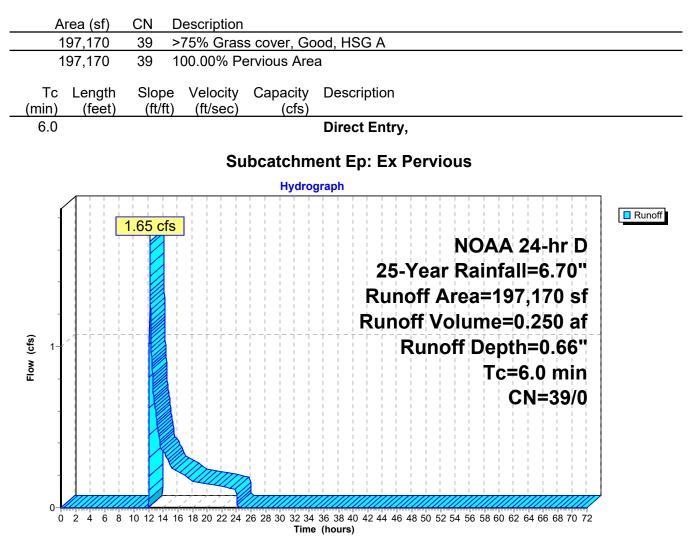
	16,969			ed pavemer	
1	16,969	98 1	00.00% Im	pervious A	rea
Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,
			Sub	ocatchme	ent Ei: Ex Impervious
				Hydrog	graph
19			- ┽ - ┼ - ┼ - ├ - ┓┽ - ┼ - ┼ - └ - └		·/- ·/- ·/- ·/- ·/- ·/- ·/- ·/- ·/- ·/-
18 (17 (<mark>1</mark>	7.21 cfs			
16					25-Year Rainfall=6.70"
15- 14-	/				
13					Runoff Area=116,969 sf Runoff Volume=1.446 af
12- 11-	/		- <u>-</u>		
11- 10- 9-			$-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}$		Runoff Depth=6.46"
9- 8	/		- <u>+</u>	¦ ¦ ¦ ¦ ¦- └ └ └ ┘ ┘-	
7			$-\frac{1}{1} - \frac{1}{1} - 1$		CN=0/98
61 51	/		- -		
4			$-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}$		
3 2	/				
1					

Summary for Subcatchment Ep: Ex Pervious

Runoff = 1.65 cfs @ 12.16 hrs, Volume= 0 Routed to Pond E : Existing POA

0.250 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 25-Year Rainfall=6.70"

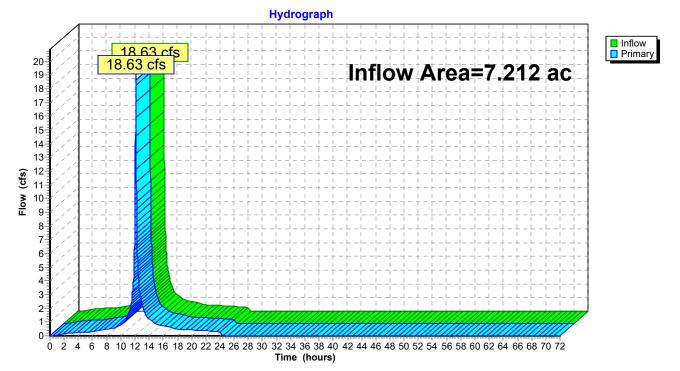


Summary for Pond E: Existing POA

Inflow Are	a =	7.212 ac, 37.23% Impervious, Inflow Depth = 2.82" for 25-Year event	
Inflow	=	18.63 cfs @ 12.13 hrs, Volume= 1.696 af	
Primary	=	18.63 cfs $@$ 12.13 hrs, Volume= 1.696 af, Atten= 0%, Lag= 0.0 min	

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

Pond E: Existing POA



240308 r5 SWM Prepared by InSite Engineering, LLC <u>HydroCAD® 10.20-4b s/n 03018 © 2023 H</u>	-	100-Year Rainfall=9.18" Printed 3/8/2024 Page 14
Runoff by SCS TR-	.00-72.00 hrs, dt=0.01 hrs, 7201 points 20 method, UH=SCS, Split Pervious/In Ind method - Pond routing by Dyn-Sto	nperv.
Subcatchment Ei: Ex Impervious	Runoff Area=116,969 sf 100.00% Imp Tc=6.0 min CN=0/9	pervious Runoff Depth=8.94" 8 Runoff=23.62 cfs 2.000 af
Subcatchment Ep: Ex Pervious	Runoff Area=197,170 sf 0.00% Imp Tc=6.0 min CN=39	pervious Runoff Depth=1.69" 9/0 Runoff=7.51 cfs 0.637 af
Pond E: Existing POA		Inflow=30.99 cfs 2.637 af Primary=30.99 cfs 2.637 af
Total Runoff Area = 7.2 ⁴		erage Runoff Depth = 4.39" 23% Impervious = 2.685 ac

Summary for Subcatchment Ei: Ex Impervious

Runoff = 23.62 cfs @ 12.13 hrs, Volume= 2.000 af, Depth= 8.94" Routed to Pond E : Existing POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 100-Year Rainfall=9.18"

	<u>16,969</u>			ed pavemer		
1	16,969	98 1	00.00% In	pervious A	Area	
Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0					Direct Entry,	
			Sul	ocatchme	ent Ei: Ex Impervious	
				Hydro	•	
26 25		8.62 cfs				Runo
24 23		.02 013	┛┽ - ┼ - ┼ - ┾ - - ↓ - ↓ - ↓ - ┝ -		NOAA 24-hr D	
22 21	/		- + - + - + - + - + - - + - + - + - + -		100-Year Rainfall=9.18"	
20 19	,		-		Runoff Area=116,969 sf	
18-1 17-1 16-1			- + - + - + - + - + - - + - + - + - + -		Runoff Volume=2.000 af	
= /	´ ⊢ - ´		- + - + - + - + - 		Runoff Depth=8.94"	
(ct) 14 13 13 12			-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+		Tc=6.0 min	
11 1 10 1 9 1					CN=0/98	
8 7	- L - l - l		$-\frac{1}{1} - \frac{1}{1} - 1$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
6 5	- L - 				- J - 4 - 4 - 4 - 4 - 6 - 6 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7	
4 1 3 1 2 1			- + - + - + - + - + - - + - + - + - + -			
1						

Summary for Subcatchment Ep: Ex Pervious

Runoff = 7.51 cfs @ 12.14 hrs, Volume= 0.637 af, Depth= 1.69" Routed to Pond E : Existing POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 100-Year Rainfall=9.18"

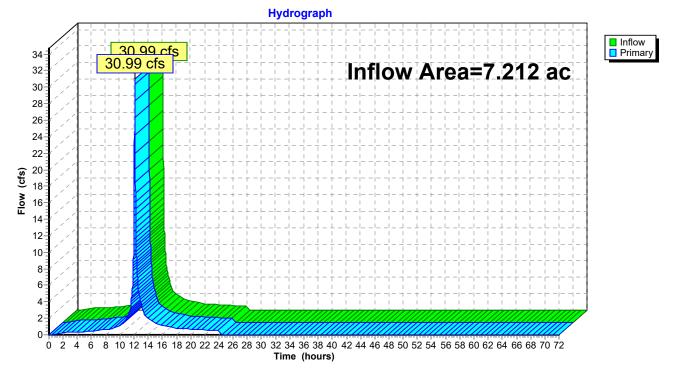
	97,170		75% Gras	s cover, Go	ood, HSG A	
19	97,170	39 1	00.00% Pe	ervious Are	а	
Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0					Direct Entry,	
			Su	ıbcatchm	ent Ep: Ex Pervious	
				Hydro	graph	
8- 7- 6- 5- 4-		7.51 cfs			NOAA 24-hr D 100-Year Rainfall=9.18" Runoff Area=197,170 sf Runoff Volume=0.637 af Runoff Depth=1.69" Tc=6.0 min	Runof
3					CN=39/0	

Summary for Pond E: Existing POA

Inflow Area	a =	7.212 ac, 37.23% Impervious, Inflow Depth = 4.39" for 100-Year event
Inflow	=	30.99 cfs @ 12.13 hrs, Volume= 2.637 af
Primary	=	30.99 cfs $\overline{@}$ 12.13 hrs, Volume= 2.637 af, Atten= 0%, Lag= 0.0 min

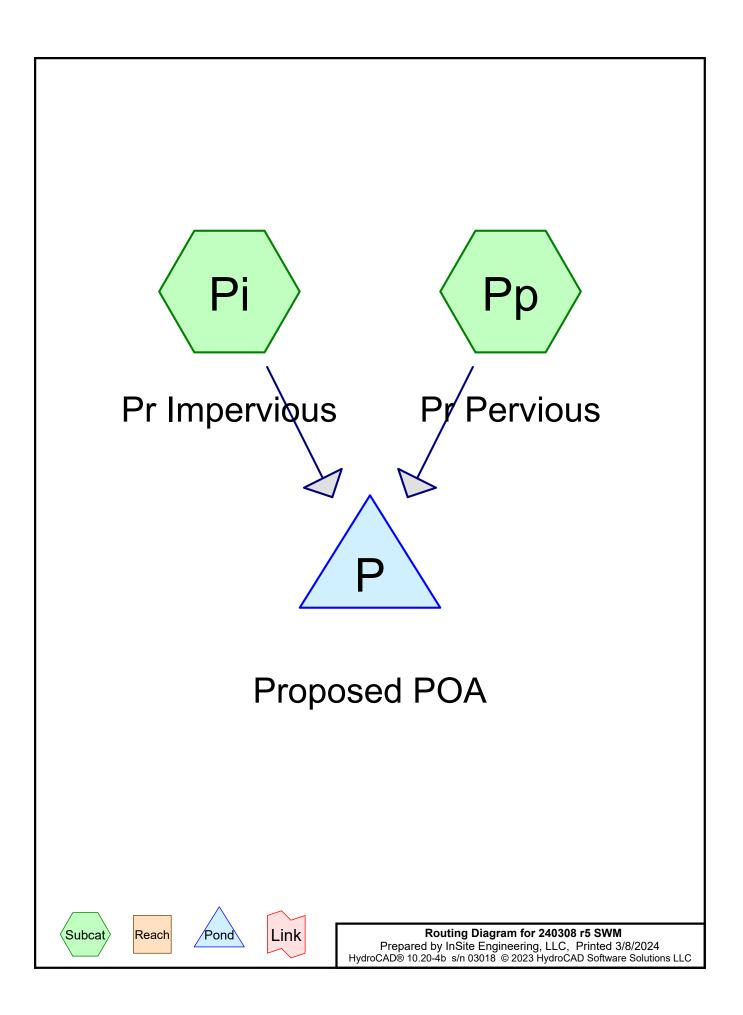
Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond E: Existing POA



APPENDIX C

Post-Development Flow Calculations



240308 r5 SWM Prepared by InSite Engineering, LLC <u>HydroCAD® 10.20-4b_s/n 03018_© 2023 Hy</u>		2-Year Rainfall=3.46" Printed 3/8/2024 Page 2
Runoff by SCS TR-2	00-72.00 hrs, dt=0.01 hrs, 7201 points 20 method, UH=SCS, Split Pervious/Impe nd method - Pond routing by Dyn-Stor-Ir	
Subcatchment Pi: Pr Impervious	Runoff Area=127,326 sf 100.00% Imperv Tc=6.0 min CN=0/98	ious Runoff Depth=3.23" Runoff=9.60 cfs 0.786 af
Subcatchment Pp: Pr Pervious	Runoff Area=186,813 sf 0.00% Imperv Tc=6.0 min CN=39/0	ious Runoff Depth=0.01" Runoff=0.01 cfs 0.002 af
Pond P: Proposed POA	I	Inflow=9.60 cfs
Total Runoff Area = 7.212		ge Runoff Depth = 1.31" ⁄ Impervious = 2.923 ac

Summary for Subcatchment Pi: Pr Impervious

Runoff = 9.60 cfs @ 12.13 hrs, Volume= 0.786 af, Depth= 3.23" Routed to Pond P : Proposed POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 2-Year Rainfall=3.46"

127,326			ed pavemer		
127,326	98 1	00.00% In	pervious A	rea	
Tc Lengt (min) (fee		Velocity (ft/sec)	Capacity (cfs)	Description	
6.0	<u>(1711)</u>	(11/580)	(015)	Direct Entry,	
		Sul	ocatchme	ent Pi: Pr Impervious	
			Hydro	graph	
(sg) mold 10- 9- 8- 7- 6- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4	9.60 cfs			NOAA 24-hr D 2-Year Rainfall=3.46" Runoff Area=127,326 sf Runoff Volume=0.786 af Runoff Depth=3.23" Tc=6.0 min CN=0/98	Runoff

Summary for Subcatchment Pp: Pr Pervious

Runoff = 0.01 cfs @ 24.01 hrs, Volume= Routed to Pond P : Proposed POA 0.002 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 2-Year Rainfall=3.46"

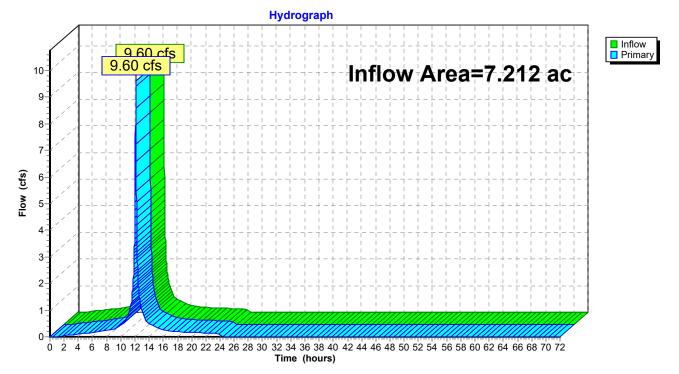
	<u>186,813</u> 186,813			<u>s cover, Go</u> ervious Are	ood, HSG A	
	100,013	39 1		ervious Are	a	
Тс	Length	Slope	Velocity	Capacity	Description	
<u>(min)</u> 6.0	(feet)	(ft/ft)	(ft/sec)	(cfs)	Direct Fretor	
0.0					Direct Entry,	
			Sı	ubcatchm	ent Pp: Pr Pervious	
				Hydrog	graph	
0.00	7-1					Run
0.00)7		0.01	<mark>cfs</mark>		
0.00	06				NOAA 24-hr D	
0.00)6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				2-Year Rainfall=3.46"	
0.00	05	 -			Runoff Area=186,813 sf -	
0.00	05				Runoff Volume=0.002 af	
0.00 چ	I I I I	+-+-+-		- + - -		
0.00 (cts)	1111111	$-\frac{1}{1} - \frac{1}{1} - 1$			Runoff Depth=0.01"	
					Tc=6.0 min -	
0.00	i= −i= ·					
0.00 0.00						
0.00		+-+-+-				
0.00	- 计一次一个	$-\frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1}$				
0.00		+-+-+- 				
	0	///////////////////////////////////////				-

Summary for Pond P: Proposed POA

Inflow Area	a =	7.212 ac, 40.53% Impervious, Inflow Depth = 1.31" for 2-Year event
Inflow	=	9.60 cfs @ 12.13 hrs, Volume= 0.788 af
Primary	=	9.60 cfs (a) 12.13 hrs, Volume= 0.788 af, Atten= 0%, Lag= 0.0 min

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

Pond P: Proposed POA



240308 r5 SWM Prepared by InSite Engineering, LLC <u>HydroCAD® 10.20-4b s/n 03018 © 2023 Hy</u>	NOAA 24-hr D 10-Year Rainfall=5.36" Printed 3/8/2024 rdroCAD Software Solutions LLC Page 6					
Runoff by SCS TR-2	00-72.00 hrs, dt=0.01 hrs, 7201 points 20 method, UH=SCS, Split Pervious/Imperv. Ind method - Pond routing by Dyn-Stor-Ind method					
Subcatchment Pi: Pr Impervious	Runoff Area=127,326 sf 100.00% Impervious Runoff Depth=5.12" Tc=6.0 min CN=0/98 Runoff=14.96 cfs 1.248 af					
Subcatchment Pp: Pr Pervious	Runoff Area=186,813 sf 0.00% Impervious Runoff Depth=0.28" Tc=6.0 min CN=39/0 Runoff=0.24 cfs 0.100 af					
Pond P: Proposed POA	Inflow=14.96 cfs 1.347 af Primary=14.96 cfs 1.347 af					
Total Runoff Area = 7.212 ac Runoff Volume = 1.347 af Average Runoff Depth = 2.24" 59.47% Pervious = 4.289 ac 40.53% Impervious = 2.923 ac						

Summary for Subcatchment Pi: Pr Impervious

Runoff = 14.96 cfs @ 12.13 hrs, Volume= 1.248 af, Depth= 5.12" Routed to Pond P : Proposed POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 10-Year Rainfall=5.36"

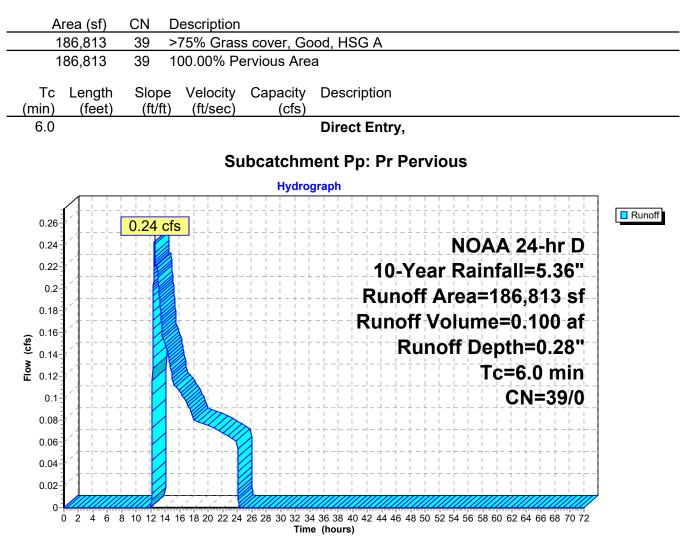
	27,326			ed pavemer		
12	27,326	98 1	00.00% In	pervious A	rea	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0					Direct Entry,	
			Sul	bcatchme	ent Pi: Pr Impervious	
				Hydro	graph	
16		4.96 cfs				Runol
15			┛;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		NOAA 24-hr D	
14- 13-			$-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10-Year Rainfall=5.36"	
12			- + - + - + - + - + - + - + - + - + - +		Runoff Area=127,326 sf	
11 3 10 3			$-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}$		Runoff Volume=1.248 af	
					Runoff Depth=5.12"	
Flow (cfs)			$-\frac{1}{1} - \frac{1}{1} - 1$	$\begin{matrix} 1 & 1 & 1 & 1 & 1 \\ 1 & -1 & -1 & -1 & $		
- 7-7 6-7					CN=0/98	
5						
4-7´ 3-7´			- + - + - + - + - + - + - + - + - + - +			
2			- + - + - + - + - I I I I I 		$\begin{array}{c} - & - & - & - & - & - & - & - & - & - $	
1						

Summary for Subcatchment Pp: Pr Pervious

Runoff = 0.24 cfs @ 12.54 hrs, Volume= Routed to Pond P : Proposed POA

0.100 af, Depth= 0.28"

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 10-Year Rainfall=5.36"

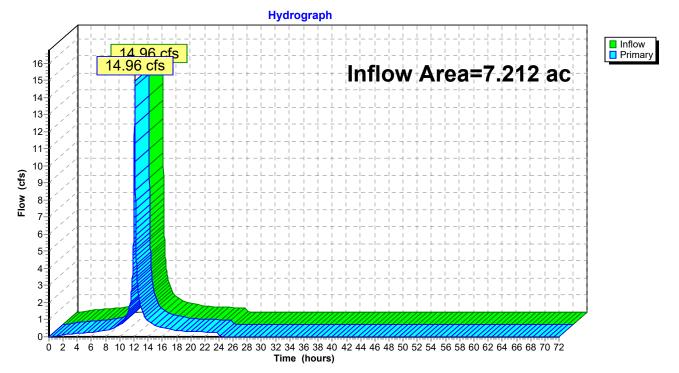


Summary for Pond P: Proposed POA

Inflow Are	a =	7.212 ac, 40.53% Impervious, Inflow Depth = 2.24" for 10-Year event	
Inflow	=	14.96 cfs @ 12.13 hrs, Volume= 1.347 af	
Primary	=	14.96 cfs $ ilde{@}$ 12.13 hrs, Volume= 1.347 af, Atten= 0%, Lag= 0.0 mir	า

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

Pond P: Proposed POA



240308 r5 SWM Prepared by InSite Engineering, LLC <u>HydroCAD® 10.20-4b s/n 03018 © 2023 Hy</u>	NOAA 24-hr D 25-Year Rainfall=6.70" Printed 3/8/2024 droCAD Software Solutions LLC Page 10						
Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv. Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method							
Subcatchment Pi: Pr Impervious	Runoff Area=127,326 sf 100.00% Impervious Runoff Depth=6.46" Tc=6.0 min CN=0/98 Runoff=18.74 cfs 1.574 af						
Subcatchment Pp: Pr Pervious	Runoff Area=186,813 sf 0.00% Impervious Runoff Depth=0.66" Tc=6.0 min CN=39/0 Runoff=1.56 cfs 0.237 af						
Pond P: Proposed POA	Inflow=20.07 cfs 1.811 af Primary=20.07 cfs 1.811 af						
Total Runoff Area = 7.212 ac Runoff Volume = 1.811 af Average Runoff Depth = 3.01" 59.47% Pervious = 4.289 ac 40.53% Impervious = 2.923 ac							

Summary for Subcatchment Pi: Pr Impervious

Runoff = 18.74 cfs @ 12.13 hrs, Volume= 1.574 af, Depth= 6.46" Routed to Pond P : Proposed POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 25-Year Rainfall=6.70"

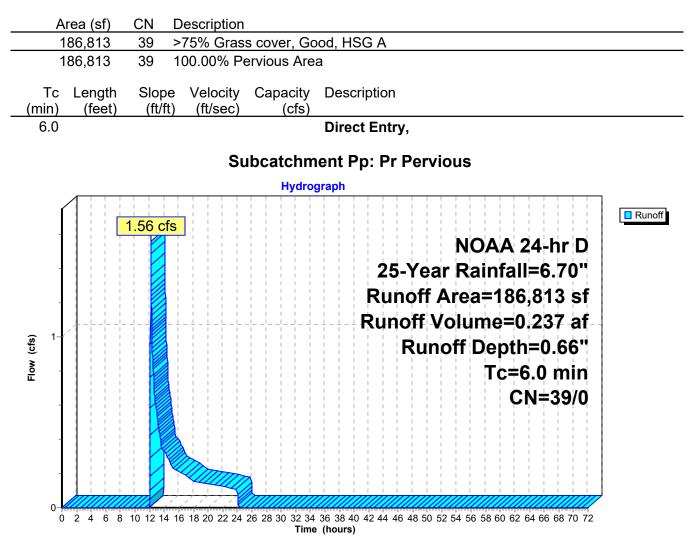
	27,326			ed pavemer		
1	27,326	98 1	00.00% In	pervious A	rea	
Тс	Length	Slope	Velocity	Capacity	Description	
min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
6.0					Direct Entry,	
			Su	bcatchme	ent Pi: Pr Impervious	
				Hydro	graph	
ſ						Runo
20- 19-	,	8.74 cfs				
18			 - + - + - + - + -		NOAA 24-hr D	
17 - 16 -			- + - + - + - + -		25-Year Rainfall=6.70"	
15					Runoff Area=127,326 sf	
14-1 13-1			- + - + - + - + - + - - + - + - + - + -		Runoff Volume=1.574 af	
12					Runoff Depth=6.46"	
12 11 10					Tc=6.0 min	
9-1 8-1			- + - + - + - +		CN=0/98-	
7 6			$-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}$			
5						
4			- + - + - + - + - 			
3-1 2-1			- + - + - + - + -			
1						

Summary for Subcatchment Pp: Pr Pervious

Runoff = 1.56 cfs @ 12.16 hrs, Volume= 0.237 Routed to Pond P : Proposed POA

0.237 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 25-Year Rainfall=6.70"

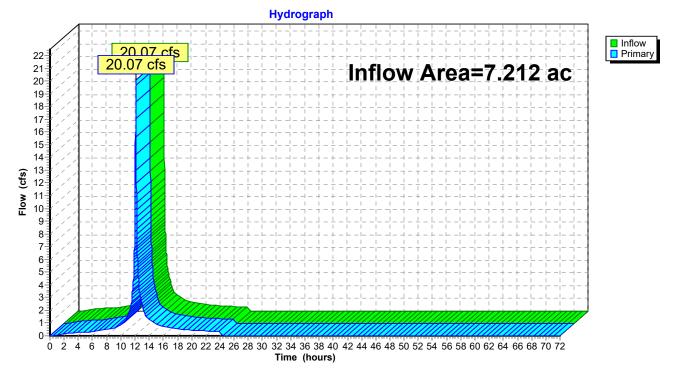


Summary for Pond P: Proposed POA

Inflow Area	a =	7.212 ac, 40.53% Impervious, Inflow Depth = 3.01" for 2	5-Year event
Inflow	=	20.07 cfs @ 12.13 hrs, Volume= 1.811 af	
Primary	=	20.07 cfs @ 12.13 hrs, Volume= 1.811 af, Atten= 0%	6, Lag= 0.0 min

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

Pond P: Proposed POA



240308 r5 SWM Prepared by InSite Engineering, LLC <u>HydroCAD® 10.20-4b s/n 03018 © 2023 Hy</u>	NOAA 24-hr D 100-Year Rainfall=9.18" Printed 3/8/2024 droCAD Software Solutions LLC Page 14							
Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv. Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method								
Subcatchment Pi: Pr Impervious	Runoff Area=127,326 sf 100.00% Impervious Runoff Depth=8.94" Tc=6.0 min CN=0/98 Runoff=25.71 cfs 2.178 af							
Subcatchment Pp: Pr Pervious	Runoff Area=186,813 sf 0.00% Impervious Runoff Depth=1.69" Tc=6.0 min CN=39/0 Runoff=7.12 cfs 0.603 af							
Pond P: Proposed POA	Inflow=32.68 cfs 2.781 af Primary=32.68 cfs 2.781 af							
Total Runoff Area = 7.212 ac Runoff Volume = 2.781 af Average Runoff Depth = 4.63" 59.47% Pervious = 4.289 ac 40.53% Impervious = 2.923 ac								

Summary for Subcatchment Pi: Pr Impervious

Runoff = 25.71 cfs @ 12.13 hrs, Volume= 2.178 af, Depth= 8.94" Routed to Pond P : Proposed POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 100-Year Rainfall=9.18"

27,326					
27,326	98 1	00.00% In	pervious A	Irea	
Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
				Direct Entry,	
		Sul	bcatchme	ent Pi: Pr Impervious	
			Hydro	graph	
		- + - + - + - + - + - + - + - + - + - +		· · · · · · · · · · · · · · · · · · ·	Run
				NOAA 24-hr D	
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	27,326 Length (feet)	27,326 98 1 Length Slope	27,326 98 100.00% lm Length Slope Velocity (feet) (ft/ft) (ft/sec) Sul	27,326 98 100.00% Impervious A Length Slope Velocity Capacity (feet) (ft/ft) (ft/sec) (cfs) Subcatchme Hydro	27,326 98 100.00% Impervious Area Length Slope Velocity Capacity Description (feet) (ft/ft) (ft/sec) (cfs) Direct Entry, Subcatchment Pi: Pr Impervious Hydrograph

Summary for Subcatchment Pp: Pr Pervious

Runoff = 7.12 cfs @ 12.14 hrs, Volume= 0.603 af, Depth= 1.69" Routed to Pond P : Proposed POA

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs NOAA 24-hr D 100-Year Rainfall=9.18"

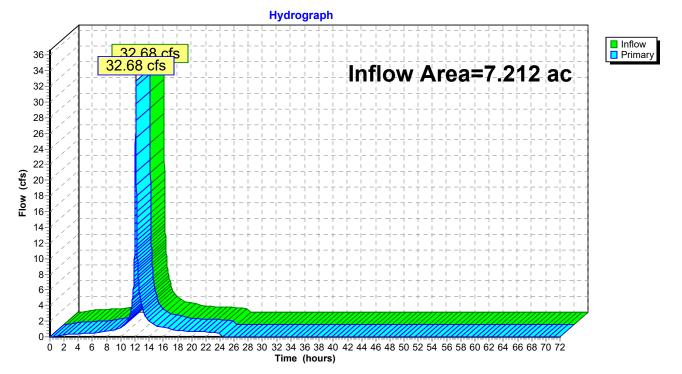
1	Area (sf) 186,813	39 >			ood, HSG A	
1	186,813	39 1	00.00% Pe	ervious Are	28	
Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0					Direct Entry,	
			Sı	ıbcatchn	nent Pp: Pr Pervious	
				Hydro	graph	
1		7.12 cfs				Runoff
7- 6-					NOAA 24-hr D 100-Year Rainfall=9.18" Runoff Area=186,813 sf	
					Runoff Volume=0.603 af Runoff Depth=1.69" Tc=6.0 min	
3-					CN=39/0	
2-					- + - +	
- 1 -				- - 		

Summary for Pond P: Proposed POA

Inflow Area	a =	7.212 ac, 40.53% Impervious, Inflow Depth = 4.63" for 100-Year event	t
Inflow	=	32.68 cfs @ 12.13 hrs, Volume= 2.781 af	
Primary	=	32.68 cfs @ 12.13 hrs, Volume= 2.781 af, Atten= 0%, Lag= 0.0 m	nin

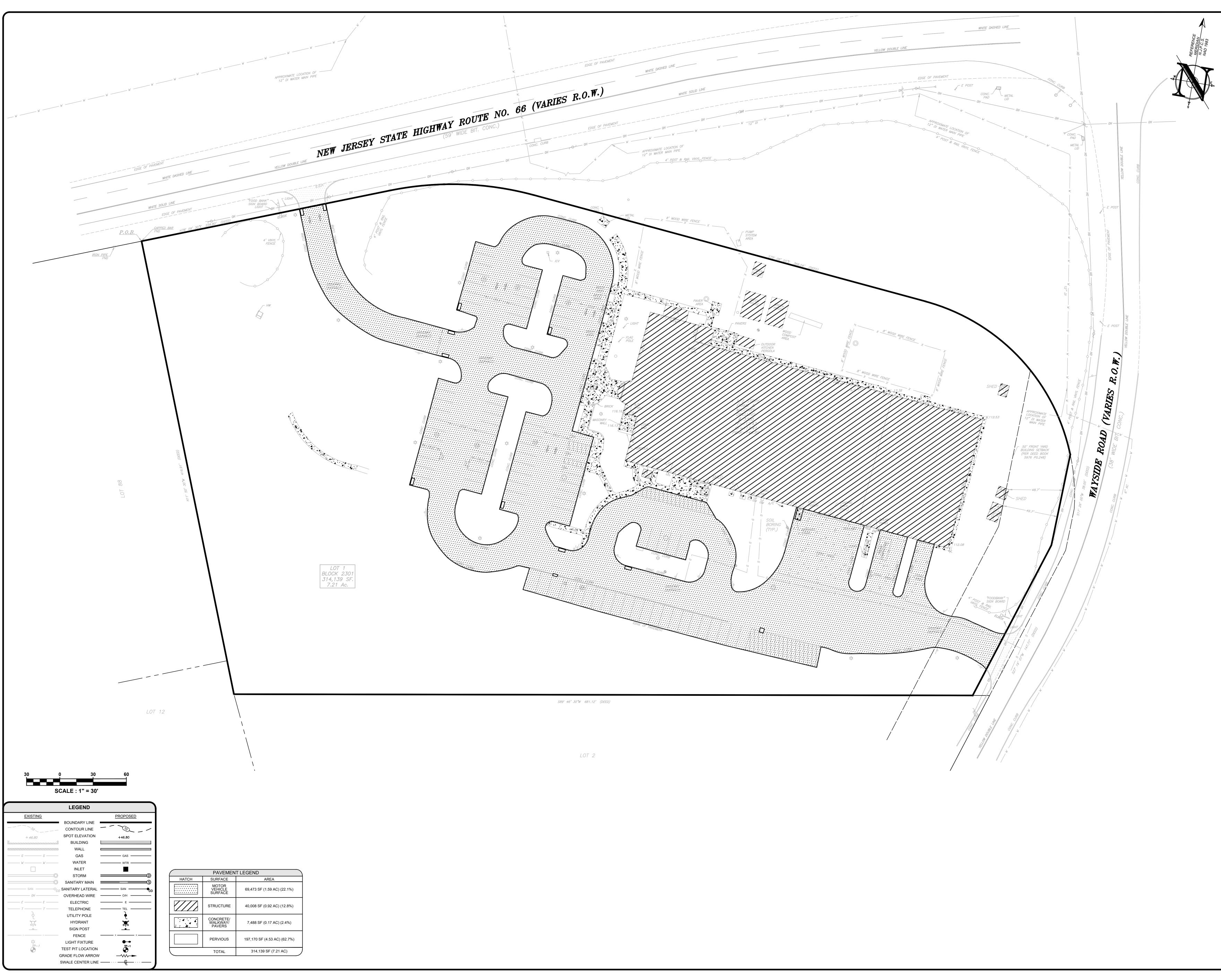
Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond P: Proposed POA



APPENDIX D

Pre-Development Coverage Map

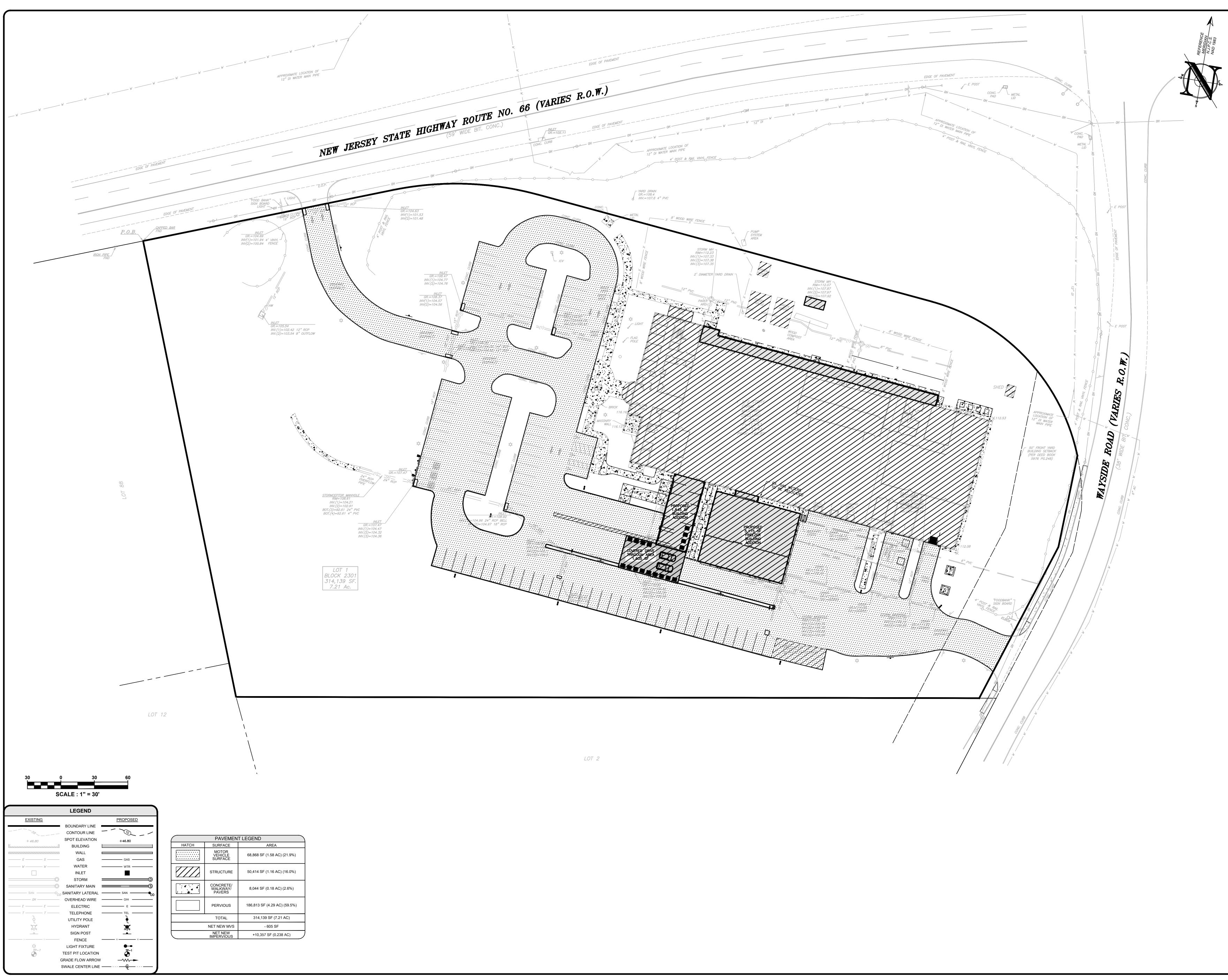


– 3300 Route 66_ Rights Reserved. 11-01 -LLC, All -23–21 ering. Fulfill\ Engine X:\Jobs\21 right 2024,

PROJECT INFORMATION ROJECT NAME: FULFILL FOOD BANK MONMOUTH & OCEAN PROJECT LOCATION: BLOCK 2301, LOT 1 TAX MAP #23 3300 ROUTE 66 TOWNSHIP OF NEPTUNE , MONMOUTH COUNTY, NJ OWNER / APPLICANT: FOOD BANK OF MONMOUTH & OCEAN COUNT 3300 ROUTE 66 TOWNSHIP OF NEPTUNE, NJ 07753 APPLICANT'S PROFESSIONALS SURVEYOR: INSITE SURVEYING, LLC 1955 NJ 34 #1A WALL TOWNSHIP, NJ 07719 <u>ARCHITECT:</u> **REDCOM DESIGN AND CONSTRUCTION, LLC** 433 NORTH AVE EAST P.O. BOX 160 WESTFIELD, NJ 07090 <u>ATTORNEY:</u> JENNIFER S. KRIMKO, ESQ. ANSELL GRIMM & AARON, PC 1500 LAWRENCE AVENUE - CN7807 OCEAN, NJ 07712 CALL BEFORE YOU DIG! NJ ONE CALL....800-272-1000 COMMUNICATION / 1 TEMP. SURVEY MARKINGS InSite Engineering, LLC CERTIFICATE OF AUTHORIZATION: 24GA28083200 1955 ROUTE 34, SUITE 1A, WALL, NJ 07719 732-531-7100 (Ph) 732-531-7344 (Fax) InSite@InSiteEng.net www.InSiteEng.net LICENSED IN: NEW JERSEY, NEW YORK, PENNSYLVANIA DELAWARE, CONNECTICUT, NORTH CAROLINA COLORADO, & DISTRICT OF COLUMBIA CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN THE SIGNATURE AND RAISED SEAL OF THE PROFESSIONAL, IT IS NOT AN ORIGINAL AND MAY HAVE BEEN ALTERED CHRISTOPHER M. BEDNARSKI, P.E. PROFESSIONAL ENGINEER NJPE LIC. NO. 24GE05256400 REVISIONS ev.# Date Comme 03/08/24 REVISED PER ZB COMMENTS 01/10/24 REVISED PER FSCD & CLIENT COMMENTS 10/20/23 PLANNING BOARD SUBMISSION 09/27/23 REV PER CLIENT COMMENTS 08/25/23 REV PER CLIENT COMMENTS 0 05/10/23 INITIAL RELEASE scale: **1"=30'** DESIGNED BY: STC DATE: 05/10/23 DRAWN BY: STC ЈОВ #: 23-2111-01 СНЕСКЕД ВУ: СМВ cad id: 23-2111-01r5 NOT FOR CONSTRUCTION APPROVED BY FOR CONSTRUCTION PLAN INFORMATION DRAWING TITLE: PRELIMINARY & FINAL MAJOR SITE PLAN HEET TITLE: PRE-DEVELOPMENT COVERAGE MAP SHEET NO: 1 OF 2

APPENDIX E

Post-Development Coverage Map



PROJECT INFORMATION ROJECT NAME: FULFILL FOOD BANK MONMOUTH & OCEAN PROJECT LOCATION: BLOCK 2301, LOT 1 TAX MAP #23 3300 ROUTE 66 TOWNSHIP OF NEPTUNE , MONMOUTH COUNTY, NJ OWNER / APPLICANT: FOOD BANK OF MONMOUTH & OCEAN COUNT 3300 ROUTE 66 TOWNSHIP OF NEPTUNE, NJ 07753 APPLICANT'S PROFESSIONALS SURVEYOR: INSITE SURVEYING, LLC 1955 NJ 34 #1A WALL TOWNSHIP, NJ 07719 ARCHITECT: REDCOM DESIGN AND CONSTRUCTION, LLC 433 NORTH AVE EAST P.O. BOX 160 WESTFIELD, NJ 07090 <u>ATTORNEY:</u> JENNIFER S. KRIMKO, ESQ. ANSELL GRIMM & AARON, PC 1500 LAWRENCE AVENUE - CN7807 OCEAN, NJ 07712 CALL BEFORE YOU DIG! NJ ONE CALL....800-272-1000 COMMUNICATION TEMP. SURVEY MARKINGS InSite Engineering, LLC CERTIFICATE OF AUTHORIZATION: 24GA28083200 1955 ROUTE 34, SUITE 1A, WALL, NJ 07719 732-531-7100 (Ph) 732-531-7344 (Fax) InSite@InSiteEng.net www.InSiteEng.net LICENSED IN: NEW JERSEY, NEW YORK, PENNSYLVANIA DELAWARE, CONNECTICUT, NORTH CAROLINA COLORADO, & DISTRICT OF COLUMBIA CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN THE SIGNATURE AND RAISED SEAL OF THE PROFESSIONAL, IT IS NOT AN ORIGINAL AND MAY HAVE BEEN ALTERED M. Bahn CHRISTOPHER M. BEDNARSKI, P.E. PROFESSIONAL ENGINEER NJPE LIC. NO. 24GE05256400 REVISIONS ev.# Date Comn 03/08/24 REVISED PER ZB COMMENTS 01/10/24 REVISED PER FSCD & CLIENT COMMENTS 10/20/23 PLANNING BOARD SUBMISSION 09/27/23 REV PER CLIENT COMMENTS 08/25/23 REV PER CLIENT COMMENTS 0 05/10/23 INITIAL RELEASE scale: **1"=30'** DESIGNED BY: STC DATE: 05/10/23 DRAWN BY: STC JOB #: 23-2111-01 СНЕСКЕД ВУ: СМВ cad id: 23-2111-01r5 NOT FOR CONSTRUCTION APPROVED BY FOR CONSTRUCTION PLAN INFORMATION DRAWING TITLE: PRELIMINARY & FINAL MAJOR SITE PLAN HEET TITLE: POST-DEVELOPMENT COVERAGE MAP <u>SHEET NO:</u> 2 OF 2