Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road Submission:	la. Date of
2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	rvious System SWM-A2
10.		cable, basin discharge is to the ground
	Basin outlet location (NJSPC feet, NAD83): N <u>797,626.28</u> E 419,003	——————————————————————————————————————

Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration				5 inches/hour
ARRANGE STATE OF THE STATE OF T				

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Ft)	Discharge
		(cfs)
600.00	0.00	0.00
602.00	0.688	1.737

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) ¹:

20	21	22	23
Drainage Area	Post-Developm	Percent	Time of
(sq miles)	ent	Impervious	Concentration
(Acres)	CN#		(hrs)
0,55 Acres	90	0%	0.10
0.41 Acres	98	100%	0.10
_	Drainage Area (sq miles) (Acres) 0.55 Acres	Drainage Area Post-Developm (sq miles) ent CN# 90	Drainage Area Post-Developm Percent Impervious CN#

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG D			
			·		
			. ,		· · · · · · · · · · · · · · · · · · ·

27.	Name of responsible parties that will maintain this basin:				
	Name:	Street Address:			
	Municipality:	State: Zip Code:			
	Phone Number ()				

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road Submission:	la. Date of
2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	ervious System SWM-B1
10.	+ ·-····	icable, basin discharge is

E 421,174.00

Basin Outlet Design Data:

Basin outlet location (NJSPC feet, NAD83): N798,985.74

11 Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration				5 inches/hour

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Ft)	Discharge
Ì		(cfs)
600.20	0.00	0.00
602.20	8.32	20.97
		·

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) 1:

19 Drainage Area Name	20 Drainage Area (sq miles) (Acres)	21 Post-Developm ent	22 Percent Impervious	23 Time of Concentration
PDA-B1-PERVIOUS PDA-B1-IMPERVIOUS	9.72 Acres	CN# 79 98	0%	(hrs) 0.165 0.18

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG A			
151	21	HSG D			
		-			

27.	Name of responsible parties that will maintain this basin:				
	Name:	Street Address:			
	Municipality:	State: Zip Code:			
	Phone Number: () -				

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road	la. Date of
	Submission:	
2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	rvious System SWM-B2
10.	3 (4)(1) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	cable, basin discharge is I to the ground

E 420,439.93

Basin Outlet Design Data:

Basin outlet location (NJSPC feet, NAD83): N798,369.50

11 Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration				5 inches/hour
		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		
	·			

17	18
Storage	Total Outlet Structure
(Acre-Ft)	Discharge
	(cfs)
0.00	0.00
3.38	17.05
<u>, </u>	
	Storage (Acre-Ft) 0.00 3.38

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) 1:

20	21	22	23
Drainage Area	Post-Developm	Percent	Time of
(sq miles)	ent	Impervious	Concentration
(Acres)	CN#	•	(hrs)
7.70 Acres	67	0%	0.37
3.69 Acres	98	100%	0.35
	Drainage Area (sq miles) (Acres) 7.70 Acres	Drainage Area Post-Developm (sq miles) ent (Acres) CN# 7.70 Acres 67	Drainage Area (sq miles) ent Impervious (Acres) 67 0%

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG A			
151	21	HSG D	*		
			•		

27.	Name of responsible parties that will maintain this basin:				
	Name:	Street Address:			
	Municipality:	State: Zip Code:			
	Phone Number: () -				

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road	la. Date of
2,	Submission: Municipality: Andover Township	E- D'A 'AVE O L
Ζ.	ividincipality.	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	rvious System SWM-B4
10.	2 14411	cable, basin discharge is to the ground
	Basin outlet location (NJSPC feet, NAD83): N797,720.70 E 419,45	9.50

11 Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration				5 inches/hour
		······································		
	44.6.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.			
and the same consequence			A A STATE OF THE S	

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Ft)	Discharge
		(cfs)
595.00	0.00	0.00
599.00	1.49	1.885
1		

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) 1:

19	20	21	22	23
Drainage Arca	Drainage Area	Post-Developm	Percent	Time of
Name	(sq miles)	ent	Impervious	Concentration
	(Acres)	CN#	•	(hrs)
PDA-B4-PERVIOUS	1.04 Acres	77	0%	0.10
PDA-B4-IMPERVIOUS	0.72 Acres	98	100%	0.10

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG A	VP		

27.	Name of responsible parties that will maintain this basin:				
	Name:	Street Address:			
	Municipality:	State: Zip Code:			
	Phone Number: () -				

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road Submission:	la. Date of
2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built (Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	The second secon
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel P	ervious System SWM-D
10.	, ι στικό το στ ο στο στο στο στο το στο στο στο στο στο	olicable, basin discharge is

Basin Outlet Design Data:

11 Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration				5 inches/hour
			A STATE OF THE STA	· · · · · · · · · · · · · · · · · · ·
		CONT. (ACCOUNTS OF COMM.)		

Basin outlet location (NJSPC feet, NAD83): N797,824.37 E 419,076.63

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Ft)	Discharge
	· · · · · · · · · · · · · · · · · · ·	(cfs)
597.00	0.00	0.00
601.50	6.82	7.64
	and the second second	

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) 1:

19	20	21	22	23
Drainage Arca	Drainage Area	Post-Developm	Percent	Time of
Name	(sq miles)	ent	Impervious	Concentration
	(Acres)	CN#		(hrs)
PDA-D-PERVIOUS	6.15 Acres	90	0%	0.16
PDA-D-IMPERVIOUS	2.87 Acres	98	100%	0.10
			,	

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG D			
	2				
			<u></u>		

27.	Name of responsible parties that will maintain this basin:				
	Name:	Street Address:			
	Municipality:	State: Zip Code:			
	Phone Number: () -				

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road Submission:	la. Date of
2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	ervious System SWM-E1
10.	Name of Creek, Stream, or area into which the Basin discharges: Not appl	icable, basin discharge is

E 419,819.00

Basin Outlet Design Data:

12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Won Dongui	(0000)	COOTICION	5 inches/hour
	5	AND THE RESERVE OF THE PARTY OF	<u> </u>
		Orifice Size or Elevation Weir Length (USGS)	Orifice Size or Weir Length (USGS) Discharge Coefficient

Basin outlet location (NJSPC feet, NAD83): N 798,791.62

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Ft)	Discharge
		(cfs)
611.50	0.00	0.00
618.50	1.77	1.28
	•	
,		

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) !:

19	20	21	22	23
Drainage Arca	Drainage Area	Post-Developm	Percent	Time of
Name	(sq miles)	ent	Impervious	Concentration
	(Acres)	CN#	-	(hrs)
PDA-E1-PERVIOUS	1.45 Acres	89	0%	0,10
PDA-E1-IMPERVIOUS	0.67 Acres	98	100%	0.10

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG D			

				,	

27.	Name of responsible parties that will maintain this basin:					
	Name:	Street Address:				
	Municipality:	State: Zip Code:				
	Dhara Niumhau ()					

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road Submission:	la. Date of
2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	rvious System SWM-G1
10.		cable, basin discharge is
	Basin outlet location (NJSPC feet, NAD83): N_799,431.61 E_420,26	•

11 Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration		ALL HE ALT ALL AND		5 inches/hour
				ha i in an in ann ann ann an an an an an an an an an
			<u> </u>	

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Pt)	Discharge
		(cfs)
595.00	0.00	0.00
596.00	0.11	0.54
597.00	0.26	0.67
598.00	0.47	0.80
599.00	0.74	0.93
600.00	1.06	1.07
601.00	1.45	1.22
602.00	1.91	15.88

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) 1:

19	20	21	22	23
Drainage Arca	Drainage Area	Post-Developm	Percent	Time of
Name	(sq miles)	ent	Impervious	Concentration
	(Acres)	CN#		(hrs)
PDA-G1-PERVIOUS	4.11 Acres	80	0%	0.10
PDA-G1-IMPERVIOUS	1.72 Acres	98	100%	0.10

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG A			
151	21	HSG D			
			*		

27.	Name of responsible parties that	will maintain this basin:
	Name:	Street Address:
	Municipality:	State: Zip Code:
	Phone Number ()	

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

1.	Name of Project: 248 Stickles Pond Road Submission:	la. Date of
2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	MARK THE COURT OF
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	rvious System SWM-H1
10.		cable, basin discharge is to the ground

Basin Outlet Design Data:

11 Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration				5 inches/hour
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE				

Basin outlet location (NJSPC feet, NAD83): N_799,875.31 E 420,991.29

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Ft)	Discharge
	· · · · · · · · · · · · · · · · · · ·	(cfs)
597.25	0.00	0.00
599.75	5.29	10.67
	,	
	l	

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) 1:

19	20	21	22	23
Drainage Area	Drainage Area	Post-Developm	Percent	Time of
Name	(sq miles)	ent	Impervious	Concentration
	(Acres)	CN#		(hrs)
PDA-H1-PERVIOUS	7.51 Acres	75	0%	0.17
PDA-H1-IMPERVIOUS	3.10 Acres	98	100%	0.10
				·

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG A			
151	21	HSG D			
Marine (4/					

27.	Name of responsible parties that will maintain this basin:				
	Name:	Street Address:			
	Municipality:	State: Zip Code:			
	Phone Number ()				

Pursuant to N.J.S.A. 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin. (See Guidelines to complete form on last page)

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2.	Municipality: Andover Township	For District Use Only
3.	County: Sussex County	File Name:
4.	As built Design (Circle) 5. Date:	County:
6.	Basin is in Block: 151 Lot: 21	Watershed:
7.	Height of Dam: N/A Top width of Dam: N/A	Subwatershed
8.	Dam Classification:	
9.	Type of Basin (Circle): Detention/Retention Infiltration Note: Gravel Pe	ervious System SWM-I
10.		cable, basin discharge is
	Basin outlet location (NJSPC feet, NAD83): N 799,673.85 E 421,36	-

11 Type of Outlet	12 Orifice Size or Weir Length	12 Elevation (USGS)	14 Discharge Coefficient	15 Exponent
Exfiltration				5 inches/hour
			,	

16	17	18
Elevation	Storage	Total Outlet Structure
(USGS Feet)	(Acre-Ft)	Discharge
		(cfs)
604.65	0.00	0.00
604.40	0.49	3.26

Post Development Watershed Data (Submit copy of USGS Map, GIS shape file or CADD file showing the site footprint) ¹:

19	20	21	22	23
Drainage Area	Drainage Area	Post-Developm	Percent	Time of
Name	(sq miles)	ent	Impervious	Concentration
	(Acres)	CN#	-	(hrs)
PDA-I-PERVIOUS	1.61 Acres	58	0%	0.27
PDA-I-IMPERVIOUS	0.43 Acres	98	100%	0.10

^{1.} GIS shape or CADD file should be in NJSPC feet, NAD83

24 Block	25 Lot	26 Soil Type	24 Block	25 Lot	26 Soil Type
151	21	HSG A			
			•		

27.	Name of responsible parties that will maintain this basin:			
	Name:	Street Address:		
	Municipality:	State: Zip Code:		
	Phone Number ()			

GUIDELINES FOR COMPLETION OF HYDRAULIC AND HYDROLOGIC DATA BASE SUMMARY FORM FOR STORMWATER MANAGEMENT BASINS

- 1-3 As indicated
- 4 & 5 Indicate if data is based upon as-built or design condition. If the project is in the design phase then circle design and the date of design.
 - As indicated.
 - 7. The height of the Dam shall be described pursuant to the NJDEP Dam Safety Standards, NJAC 7:20-1.2. If the basin is excavated, then enter lexcavated. Indicate in linear feet the top width of dam.
 - 8. Dam classification as defined in the NJDEP Dam Safety Standards, NJAC 7:20-.8.
 - 9. Enter either Detention, Retention or Infiltration. A detention basin has a positive outlet. A retention basin holds water as a pond or lake and also serves a detention function. An infiltration basin relies solely on the percolation of stormwater runoff into the soil without any positive outlet.
 - 10. Enter the name of the creek, stream, lake, etc. into which the basin discharges. If discharge is overland indicate the block and lot number. This includes the receiving area at the emergency spillway of infiltration basins. Provide the basin outfall location in NJSPC feet, NAD83.
- 11 15 In this section list all outlets, their sizes, inverts, elevations and outlet discharge data for the basin.
 - (11) Enter either weir or orifice, emergency spillway or top of dam
 - (12) Enter the square feet for orifice size or length in feet for a weir
 - (13) Enter the USGS invert elevation for all outlets listed in column 11 (enter elevation of center of outlet for circular orifice)
 - (14) Enter the coefficient for the outlets listed in column 11.
- 16 18 Based on routing calculations, list in column 16 selected basin elevations (USGS), the corresponding storage capacity in acre feet (column 17) and their total outlet structure discharge in cubic ft./ sec. (18)
- 19 23 In this section identify the name and size of the contributing drainage area(s), curve number, % impervious cover and time of concentration.
 - (19) Designate the major and for subdrainage area by name.
 - (20) Indicate in square miles the basin drainage area.
 - (21) Enter the post development Curve Number (USDA-NRCS) for the basin drainage area.
 - (22) Enter the percent imperviousness of the basin drainage area. (Rooftop, paved areas streets, parking lots, etc.)
 - (23) Enter the time of concentration in hours. DO NOT USE THE LAG METHOD.
- 24 26 List the (USDA-NRCS) soil type present within the project by block and lot number.
- 27. As indicated.