

**BOROUGH OF LAKEHURST  
WORK SESSION/REGULAR MEETING  
JUNE 20, 2024  
TENTATIVE AGENDA**

1. Approval of Minutes of June 6, 2024 Regular Meeting
2. Resolution regarding payment of bills
3. Resolution regarding 2025 NJ Department of Transportation Grant application for Union Avenue, Pine Street, and Myrtle Street Project
4. Resolution authorizing a salary increase for Crossing Guard Warren Saupe
5. Resolution for renewing liquor license for Carlos and Sons, LLC
6. Resolution for renewing liquor license for Hanger 21
7. Resolution for the renewal of liquor license for Italy's Best Pizzeria II, L.L.C.
8. Resolution for the renewal of liquor license for Fleet Reserve Association Branch 124, Inc.
9. Lakehurst Volunteer Fire Company requesting to solicit for the year 2024
10. Introduction and First Reading of Ordinance entitled: "AN ORDINANCE AMENDING CHAPTER 25-16A STORMWATER CONTROL IN PINELANDS AREA, CHAPTER 25-3.3 PINELANDS COMPREHENSIVE PLAN AND CHAPTER 25-27.48 DESIGN AND PERFORMANCE STANDARDS , WATER QUALITY ENTITLED LAND DEVELOPMENT, OF THE CODE OF THE BOROUGH OF LAKEHURST, COUNTY OF OCEAN AND STATE OF NEW JERSEY" (2024-05)
11. Introduction and First Reading of Ordinance entitled: AN ORDINANCE AMENDING IN ITS ENTIRETY CHAPTER 25-16 STORMWATER CONTROL, OF THE CODE OF THE BOROUGH OF LAKEHURST, COUNTY OF OCEAN AND STATE OF NEW JERSEY ENTITLED LAND DEVELOPMENT. (2024-06)
12. Second Reading and open to the public for comment on Ordinance #2024-03 entitled "AN ORDINANCE OF THE BOROUGH OF LAKEHURST, COUNTY OF OCEAN, STATE OF NEW JERSEY, FIXING AND DETERMINING THE AMOUNT OF

SALARIES AND WAGES FOR CERTAIN EMPLOYEES AND OFFICIALS IN THE  
BOROUGH OF LAKEHURST, IN THE COUNTY OF OCEAN, AND STATE OF NEW  
JERSEY”

13. Second Reading and open to the public for comment on Ordinance #2024-04 entitled  
“AN ORDINANCE OF THE BOROUGH OF LAKEHURST, IN THE COUNTY OF  
OCEAN, STATE OF NEW JERSEY, AUTHORIZING THE ACQUISITION OF  
UTILITY EQUIPMENT AND TO APPROPRIATE THE SUM OF \$92,000 TO PAY  
THE COST THEREOF, FULLY FUNDED BY THE CAPITAL IMPROVEMENT  
FUND”

Maryanne Capasso, RMC  
Municipal Clerk

*The Mayor and Council reserve the right to add or delete items from the agenda.*

P.O. Type: All  
Range: First to Last  
Format: Detail without Line Item Notes  
Vendors: All  
Rcvd Batch Id Range: First to Last

Include Non-Budgeted: Y

Open: N Paid: N Void: N  
Rcvd: Y Held: Y Aprv: N  
Bid: Y State: Y Other: Y Exempt: Y

| PO #     | PO Date  | Vendor                            | Amount          | Charge Account  | Contract Acct | PO Type Description                | Stat/Chk | First Enc Date | Rcvd Date | Chk/Void Date | Invoice   |
|----------|----------|-----------------------------------|-----------------|-----------------|---------------|------------------------------------|----------|----------------|-----------|---------------|-----------|
| 24-00236 | 03/19/24 | C0095 CDW GOVERNMENT, LLC         |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 HP Pro Mini 400 Desktops        | 1,440.38        | 4-01-44-222-298 |               | B AQUISITION OF COMPUTER EQUIPMENT | R        | 03/19/24       | 06/19/24  |               |           |
|          |          | 2 HP Care Pack Support            | 240.64          | 4-01-44-222-298 |               | B AQUISITION OF COMPUTER EQUIPMENT | R        | 03/19/24       | 06/19/24  |               |           |
|          |          | 3 HP V24v G5 24" LCD Monitors     | 177.08          | 4-01-44-222-298 |               | B AQUISITION OF COMPUTER EQUIPMENT | R        | 03/19/24       | 06/19/24  |               |           |
|          |          | 4 HP ProBook 450 G10 15.6"        | 890.15          | 4-01-44-222-298 |               | B AQUISITION OF COMPUTER EQUIPMENT | R        | 03/19/24       | 06/19/24  |               |           |
|          |          |                                   | <u>2,748.25</u> |                 |               |                                    |          |                |           |               |           |
| 24-00309 | 04/08/24 | P0059 PMAM CORPORATION            |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 PMAM ONLINE PLATFORM            | 2,250.00        | 4-01-25-240-297 |               | B Police - Miscellaneous           | R        | 04/08/24       | 06/19/24  |               |           |
| 24-00415 | 05/08/24 | M0963 MGL PRINTING SOLUTIONS      |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 MINUTE BOOKS                    | 238.00          | 4-01-20-120-211 |               | B Clerk - Office Supplies          | R        | 05/08/24       | 06/19/24  |               | 206845    |
|          |          | 2 SHIPPING                        | 24.00           | 4-01-20-120-211 |               | B Clerk - Office Supplies          | R        | 05/08/24       | 06/19/24  |               |           |
|          |          |                                   | <u>262.00</u>   |                 |               |                                    |          |                |           |               |           |
| 24-00422 | 05/14/24 | M0118 MIRACLE CHEMICAL CO.        |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 200 GAL SODIUM HYPOCHLORITE     | 1,198.00        | 4-09-00-101-267 |               | B CHEMICALS                        | R        | 05/14/24       | 06/19/24  |               | 57862     |
|          |          | 2 FUEL SURCHARGE                  | 75.00           | 4-09-00-101-267 |               | B CHEMICALS                        | R        | 05/14/24       | 06/19/24  |               |           |
|          |          |                                   | <u>1,273.00</u> |                 |               |                                    |          |                |           |               |           |
| 24-00460 | 05/31/24 | S0072 SITE ONE LANDSCAPE SUPPLY   |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 BRUSHMASTER POST EMERGENT LIQ.  | 113.46          | 4-01-26-310-268 |               | B GROUNDS - MAINTENANCE            | R        | 05/31/24       | 06/19/24  |               |           |
| 24-00461 | 05/31/24 | M0971 MR. KEYS/BRICK LOCKSMITH    |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 ARI KEYS                        | 18.00           | 4-01-26-310-299 |               | B B&G - MISCELLANEOUS              | R        | 05/31/24       | 06/19/24  |               | 50037     |
|          |          | 2 IICO DOUBLE SIDED               | 15.00           | 4-01-26-310-299 |               | B B&G - MISCELLANEOUS              | R        | 05/31/24       | 06/19/24  |               | 50037     |
|          |          |                                   | <u>33.00</u>    |                 |               |                                    |          |                |           |               |           |
| 24-00462 | 06/03/24 | O0026 OCCUPATIONAL HEALTH CENTERS |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 PD PRE-EMPLOYMENT PHYSICAL      | 557.00          | 4-01-25-240-229 |               | B PHYSICALS                        | R        | 06/03/24       | 06/19/24  |               | 516746602 |
| 24-00465 | 06/03/24 | W0036 WIRELESS ELECTRONICS, INC.  |                 |                 |               |                                    |          |                |           |               |           |
|          |          | 1 REMOVAL OF APX 4500             | 225.00          | 4-01-25-240-244 |               | B EQUIPMENT - MAINTENANCE/REPAIR   | R        | 06/03/24       | 06/19/24  |               | M63515    |

| PO #     | PO Date  | Vendor                               | Amount       | Charge Account  | Contract PO Type<br>Acct Type Description | Stat/Chk | First<br>Enc Date | Rcvd<br>Date | Chk/Void<br>Date | Invoice |
|----------|----------|--------------------------------------|--------------|-----------------|---|----------|-------------------|--------------|------------------|---------|
| 24-00465 | 06/03/24 | w0036 WIRELESS ELECTRONICS, INC.     |              | Continued       |   |          |                   |              |                  |         |
|          |          | 2 FILLER PLATE                       | <u>13.00</u> | 4-01-25-240-244 | B EQUIPMENT - MAINTENANCE/REPAIR          | R        | 06/03/24          | 06/19/24     |                  |         |
|          |          |                                      | 238.00       |                 |   |          |                   |              |                  |         |
| 24-00466 | 06/05/24 | I0012 INSTITUTE FOR FORENSIC PSYCHOL |              |                 |   |          |                   |              |                  |         |
|          |          | 1 PSYCH EVALUATION - BIER            | 550.00       | 4-01-25-240-229 | B PHYSICALS                               | R        | 06/05/24          | 06/19/24     |                  | 20508   |
| 24-00509 | 06/11/24 | B9112 B & K EQUIPMENT SERVICES       |              |                 |   |          |                   |              |                  |         |
|          |          | 1 VAC TRUCK REPAIR INV# 39419        | 2,561.48     | 4-09-00-101-252 | B MOTOR VEHICLE - MAINT/REPAIR            | R        | 06/11/24          | 06/19/24     |                  | 39419   |
|          |          | 2 JET VAC REPAIR INV# 15190          | 211.39       | 4-09-00-101-252 | B MOTOR VEHICLE - MAINT/REPAIR            | R        | 06/11/24          | 06/19/24     |                  | 15190   |
|          |          | 3 JET VAC REPAIR INV# 15201          | <u>30.44</u> | 4-09-00-101-252 | B MOTOR VEHICLE - MAINT/REPAIR            | R        | 06/11/24          | 06/19/24     |                  | 15201   |
|          |          |                                      | 2,803.31     |                 |   |          |                   |              |                  |         |
| 24-00512 | 06/11/24 | I0018 IDEMIA IDENTITY & SECURITY USA |              |                 |   |          |                   |              |                  |         |
|          |          | 1 LIVE SCAN MAINENANCE/SUPPORT       | 2,488.00     | 4-01-25-240-222 | B CONTRACTUAL SERVICES                    | R        | 06/11/24          | 06/19/24     |                  |         |
| 24-00524 | 06/19/24 | S0091 SERPICO PYROTECHNICS, LLC      |              |                 |   |          |                   |              |                  |         |
|          |          | 1 2024 FIREWORKS BALANCE             | 9,520.00     | 4-01-28-371-236 | B Public Events - Miscellaneous           | R        | 06/19/24          | 06/19/24     |                  |         |
| 24-00525 | 06/19/24 | C0076 CLEARY, GIACOBBE, ALFIERI &    |              |                 |   |          |                   |              |                  |         |
|          |          | 1 LABOR ATTORNEY FEES                | 66.00        | 4-01-20-155-231 | B LEGAL SERVICES                          | R        | 06/19/24          | 06/19/24     |                  | 134861  |
| 24-00526 | 06/19/24 | C0060 COMCAST CABLE                  |              |                 |   |          |                   |              |                  |         |
|          |          | 1 WATER PLANT CABLE MODEM            | 96.42        | 4-09-00-101-275 | B TELEPHONE                               | R        | 06/19/24          | 06/19/24     |                  |         |
| 24-00527 | 06/19/24 | A0024 ACTION DATA SERVICES           |              |                 |   |          |                   |              |                  |         |
|          |          | 1 PAYROLL SERVICEPEND 5/19/24        | 402.80       | 4-01-20-130-299 | B Finance - Miscellaneous                 | R        | 06/19/24          | 06/19/24     |                  | 87898   |
| 24-00528 | 06/19/24 | R0046 RUMPF LAW                      |              |                 |   |          |                   |              |                  |         |
|          |          | 1 PUBLIC DEFENDER                    | 375.00       | 4-01-43-495-231 | B PUBLIC DEFENDER                         | R        | 06/19/24          | 06/19/24     |                  |         |
| 24-00529 | 06/19/24 | N0029 TWIN ROCKS WATER               |              |                 |   |          |                   |              |                  |         |
|          |          | 1 BORO HALL WATER AND COOLER         | 24.00        | 4-01-20-120-299 | B MISCELLANEOUS                           | R        | 06/19/24          | 06/19/24     |                  |         |
|          |          | 2 POLICE DEPT WATER AND COOLER       | 77.94        | 4-01-25-240-297 | B Police - Miscellaneous                  | R        | 06/19/24          | 06/19/24     |                  |         |
|          |          | 3 PW WATER AND COOLER                | <u>24.00</u> | 4-09-00-101-299 | B MISCELLANEOUS                           | R        | 06/19/24          | 06/19/24     |                  |         |
|          |          |                                      | 125.94       |                 |   |          |                   |              |                  |         |
| 24-00530 | 06/19/24 | S0896 SHORE BUSINESS SOLUTIONS       |              |                 |   |          |                   |              |                  |         |
|          |          | 1 PD COPIER INVOICE# AR99535         | 99.94        | 4-01-25-240-297 | B Police - Miscellaneous                  | R        | 06/19/24          | 06/19/24     |                  | AR99535 |

| PO #     | PO Date  | Vendor                            | Amount           | Charge Account  | Contract Acct Type               | PO Type Description | Stat/Chk | First Enc Date | Rcvd Date | Chk/Void Date | Invoice  |
|----------|----------|-----------------------------------|------------------|-----------------|----------------------------------|---------------------|----------|----------------|-----------|---------------|----------|
| 24-00530 | 06/19/24 | S0896 SHORE BUSINESS SOLUTIONS    |                  | Continued       |                                  |                     |          |                |           |               |          |
|          |          | 2 BORO COPIER INVOICE# AR100167   | 13.34            | 4-01-20-120-299 | B MISCELLANEOUS                  |                     | R        | 06/19/24       | 06/19/24  |               | AR100167 |
|          |          |                                   | <u>113.28</u>    |                 |                                  |                     |          |                |           |               |          |
| 24-00531 | 06/19/24 | N0136 NJ NATURAL GAS COMPANY      |                  |                 |                                  |                     |          |                |           |               |          |
|          |          | 1 ESC GAS BILL                    | 313.54           | 4-01-31-437-269 | B NATURAL GAS                    |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          | 2 PW GARAGE GAS BILL              | 474.18           | 4-01-31-437-269 | B NATURAL GAS                    |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          | 3 COMMUNITY CENTER GAS BILL       | 95.18            | 4-01-31-437-269 | B NATURAL GAS                    |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          | 4 PD HQ GAS BILL                  | 126.55           | 4-01-31-437-269 | B NATURAL GAS                    |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          | 5 BOROUGH HALL GAS BILL           | 66.55            | 4-01-31-437-269 | B NATURAL GAS                    |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          |                                   | <u>1,076.00</u>  |                 |                                  |                     |          |                |           |               |          |
| 24-00532 | 06/19/24 | V0855 VERIZON                     |                  |                 |                                  |                     |          |                |           |               |          |
|          |          | 1 PHONE BILL                      | 118.59           | 4-09-00-101-275 | B TELEPHONE                      |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          | 2 PHONE BILL                      | 118.59           | 4-09-00-101-275 | B TELEPHONE                      |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          |                                   | <u>237.18</u>    |                 |                                  |                     |          |                |           |               |          |
| 24-00533 | 06/19/24 | V0855 VERIZON                     |                  |                 |                                  |                     |          |                |           |               |          |
|          |          | 1 PHONE BILL                      | 388.34           | 4-01-31-440-275 | B TELEPHONE                      |                     | R        | 06/19/24       | 06/19/24  |               |          |
| 24-00534 | 06/19/24 | H0026 HOLMAN, FRENIA, ALLISON, PC |                  |                 |                                  |                     |          |                |           |               |          |
|          |          | 1 2023 AUDIT SERVICES             | 7,500.00         | 4-01-20-135-222 | B AUDIT SERVICES                 |                     | R        | 06/19/24       | 06/19/24  |               | 60782    |
|          |          | 2 2023 AUDIT SERVICES             | 7,500.00         | 4-09-00-103-222 | B AUDIT                          |                     | R        | 06/19/24       | 06/19/24  |               | 60782    |
|          |          |                                   | <u>15,000.00</u> |                 |                                  |                     |          |                |           |               |          |
| 24-00535 | 06/19/24 | A0123 AMAZON CAPITAL SERVICES     |                  |                 |                                  |                     |          |                |           |               |          |
|          |          | 1 PD UNIFORMS                     | 378.96           | 4-01-25-240-272 | B UNIFORM REPAIRS - REPLACE      |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          | 2 PD OFFICE SUPPLIES              | 329.62           | 4-01-25-240-211 | B OFFICE SUPPLIES                |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          |                                   | <u>708.58</u>    |                 |                                  |                     |          |                |           |               |          |
| 24-00536 | 06/19/24 | L0040 LOWE'S                      |                  |                 |                                  |                     |          |                |           |               |          |
|          |          | 1 B & G SHARE                     | 807.57           | 4-01-26-310-262 | B MINOR TOOLS & EQUIPMENT        |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          | 2 UTILITY SHARE                   | 125.01           | 4-09-00-101-244 | B EQUIPMENT - MAINTENANCE/REPAIR |                     | R        | 06/19/24       | 06/19/24  |               |          |
|          |          |                                   | <u>932.58</u>    |                 |                                  |                     |          |                |           |               |          |
| 24-00537 | 06/19/24 | J0900 JCP&L                       |                  |                 |                                  |                     |          |                |           |               |          |
|          |          | 1 LED STREET LIGHTING             | 476.64           | 4-01-31-436-276 | B STREET LIGHTING                |                     | R        | 06/19/24       | 06/19/24  |               |          |

June 19, 2024  
03:39 PM

Borough of Lakewood  
Bill List By P.O. Number

Page No: 4

| PO #                   | PO Date                    | Vendor       | Amount                 | Charge Account  | Contract PO Type | Acct Type Description | Stat/Chk | First Rcvd | Enc Date           | CHK/Void | Invoice |
|------------------------|----------------------------|--------------|------------------------|-----------------|------------------|-----------------------|----------|------------|--------------------|----------|---------|
| 24-00538               | 06/19/24                   | JCP&L        | 58.58                  | 4-01-31-436-276 | B                | STREET LIGHTING       | R        | 06/19/24   | 06/19/24           |          |         |
| 1                      | RT 70 & ORCHARD LIGHT      |              |                        |                 |                  |                       |          |            |                    |          |         |
| 24-00539               | 06/19/24                   | DANTEL DRIES | 204.00                 | 4-09-00-101-284 | B                | TRAINING & EDUCATION  | R        | 06/19/24   | 06/19/24           |          |         |
| 1                      | REIMBURSEMENT WATER COURSE |              |                        |                 |                  |                       |          |            |                    |          |         |
| Total Purchase Orders: |                            | 27           | Total P.O. Line Items: |                 | 47               | Total List Amount:    |          | 43,097.36  | Total Void Amount: |          | 0.00    |

| Totals by Year-Fund         |      |                  |             |                  |               |             |                  |
|-----------------------------|------|------------------|-------------|------------------|---------------|-------------|------------------|
| Fund Description            | Fund | Budget Rcvd      | Budget Held | Budget Total     | Revenue Total | G/L Total   | Total            |
| CURRENT FUND APPROPRIATIONS | 4-01 | 30,834.44        | 0.00        | 30,834.44        | 0.00          | 0.00        | 30,834.44        |
| WATER & SEWER OPERATING     | 4-09 | 12,262.92        | 0.00        | 12,262.92        | 0.00          | 0.00        | 12,262.92        |
| Total of All Funds:         |      | <u>43,097.36</u> | <u>0.00</u> | <u>43,097.36</u> | <u>0.00</u>   | <u>0.00</u> | <u>43,097.36</u> |

P.O. Type: All  
 Range: First to Last  
 Format: Detail without Line Item Notes  
 Vendors: All  
 Rcvd Batch Id Range: First to Last

Open: N Paid: N Void: N  
 Rcvd: Y Held: Y Aprv: N  
 Bid: Y State: Y Other: Y Exempt: Y

Include Non-Budgeted: Y

| PO #     | PO Date  | Vendor                       | Amount        | Charge Account                 | Contract Acct | PO Type Description            | Stat/Chk | First Enc Date | Rcvd Date | Chk/Void Date | Invoice |
|----------|----------|------------------------------|---------------|--------------------------------|---------------|--------------------------------|----------|----------------|-----------|---------------|---------|
| 24-00414 | 05/07/24 | I0023                        |               | INTL.INSTITUTE MUNICIPAL CLERK |               |                                |          |                |           |               |         |
|          |          | 1 FULL MEMBERSHIP            | 185.00        | 4-01-20-120-281                | B             | PROFESSIONAL MEMBERSHIP & DUES | R        | 05/07/24       | 06/11/24  |               |         |
|          |          | 2 ADDITIONAL FULL MEMBERSHIP | 125.00        | 4-01-20-120-281                | B             | PROFESSIONAL MEMBERSHIP & DUES | R        | 05/07/24       | 06/11/24  |               |         |
|          |          |                              | <u>310.00</u> |                                |               |                                |          |                |           |               |         |

Total Purchase Orders: 1 Total P.O. Line Items: 2 Total List Amount: 310.00 Total Void Amount: 0.00



| Totals by Year-Fund         | Fund | Budget Rcvd   | Budget Held | Budget Total  | Revenue Total | G/L Total   | Total         |
|-----------------------------|------|---------------|-------------|---------------|---------------|-------------|---------------|
| Fund Description            |      |               |             |               |               |             |               |
| CURRENT FUND APPROPRIATIONS | 4-01 | 310.00        | 0.00        | 310.00        | 0.00          | 0.00        | 310.00        |
| Total of All Funds:         |      | <u>310.00</u> | <u>0.00</u> | <u>310.00</u> | <u>0.00</u>   | <u>0.00</u> | <u>310.00</u> |

**RESOLUTION  
JUNE 20, 2024**

**WHEREAS**, the governing body of the Borough of Lakehurst, in the County of Ocean and State of New Jersey has carefully examined all vouchers presented to the Borough Clerk for payment of claims; finding all to be accurate and legitimate;

**NOW, THEREFORE, BE IT RESOLVED** by the Mayor and Council of the Borough of Lakehurst, County of Ocean, State of New Jersey that the bills list as presented in the amount of \$43,407.36 is hereby approved.

**I, Maryanne Capasso, Municipal Clerk, of the Borough of Lakehurst, County of Ocean, State of New Jersey, do hereby certify that the above resolution was approved by the Mayor and Council at the meeting of June 20, 2024.**

---

**Maryanne Capasso  
Municipal Clerk, RMC**

Borough of Lakehurst  
Resolution No. 24-118

Resolution: Approval to submit a grant application and execute a grant contract with the New Jersey Department of Transportation for the “Union Avenue, Pine Street, and Myrtle Street Curb and Sidewalk Reconstruction” project.

NOW, THEREFORE, BE IT RESOLVED that the Council of Lakehurst formally approves the grant application for the above stated project.

BE IT FURTHER RESOLVED that that Mayor Harry Robbins and Clerk Maryanne Capasso are hereby authorized to submit an electronic grant application identified as MA-2025-Union Avenue, Pine Street, and Myrtle Street-00221 to the New Jersey Department of Transportation on behalf of Lakehurst Borough.

BE IT FURTHER RESOLVED that Mayor Harry Robbins and Clerk Maryanne Capasso are hereby authorized to sign the grant agreement on behalf of Lakehurst Borough and that their signature constitutes acceptance of the terms and conditions of the grant agreement and approves the execution of the grant agreement.

Certified as a true copy of the Resolution adopted by the Council  
On this 20th day of June, 2024

\_\_\_\_\_  
Clerk: Ms. Maryanne Capasso

My signature and the Clerk’s seal serve to acknowledge the above resolution and constitute acceptance of the terms and conditions of the grant agreement and approve the execution of the grant agreement as authorized by the resolution above.

ATTEST and AFFIX SEAL

\_\_\_\_\_  
(Clerk)

\_\_\_\_\_  
(Mayor)

**RESOLUTION  
JUNE 20, 2024**

**RESOLUTION APPROVING A SALARY INCREASE FOR CROSSING GUARD  
WARREN SAUPE**

**WHEREAS**, the Borough of Lakehurst employs school traffic guards to assist children in safely crossing the street on their way to and from school; **and**

**WHEREAS**, the Police Chief of Lakehurst Borough appoints traffic guards as he may deem necessary and within the limits of the funds that are available in the budgetary appropriation for the Police Department; **and**

**WHEREAS**, The Police Chief of Lakehurst Borough desires to increase the salary of a given crossing guard.

**NOW, THEREFORE, BE IT RESOLVED** by the Mayor and Council of the Borough of Lakehurst, County of Ocean, State of New Jersey that the base salary for the following employee and title shall be authorized:

Warren Saupe, Crossing Guard \$18.00 per Hour

**BE IT FURTHER RESOLVED** the said salaries shall be effective January 1, 2024.

**I, Maryanne Capasso, Municipal Clerk, of the Borough of Lakehurst, County of Ocean, State of New Jersey, do hereby certify that the above resolution was approved by the Mayor and Council at the meeting of June 20, 2024.**

---

**Maryanne Capasso, RMC  
Municipal Clerk**

**RESOLUTION  
JUNE 20, 2024**

**WHEREAS**, Carlo & Sons L.L.C. has applied to the Mayor and Council of the Borough of Lakehurst for a renewal of Liquor License Number: 1513-33-006-007, **and**

**WHEREAS**, all necessary forms and fees were submitted to the office of the Municipal Clerk, **and**

**WHEREAS**, the Mayor and Council of the Borough of Lakehurst are not aware of any circumstances or provisions of law which should prohibit the renewal of said license.

**NOW, THEREFORE, BE IT RESOLVED** by the Mayor and Council of the Borough of Lakehurst, County of Ocean, State of New Jersey, that the Liquor License for Carlo & Sons L.L.C. be renewed for the year 2024-2025.

**I, Maryanne Capasso, Municipal Clerk of the Borough of Lakehurst, County of Ocean, State of New Jersey, do hereby certify that the above resolution was approved by the Mayor and Council at the meeting of June 20, 2024.**

---

**Maryanne Capasso, RMC  
Municipal Clerk**

**RESOLUTION**  
**JUNE 20, 2024**

**WHEREAS**, Hanger 21, Inc. has applied to the Mayor and Council of the Borough of Lakehurst for a renewal of Liquor License Number: 1513-33-001-007, for premises located at 21 Union Avenue, **and**

**WHEREAS**, all necessary forms and fees were submitted to the office of the Municipal Clerk, **and**

**WHEREAS**, the Mayor and Council of the Borough of Lakehurst are not aware of any circumstances or provisions of law which should prohibit the renewal of said license.

**NOW, THEREFORE, BE IT RESOLVED** by the Mayor and Council of the Borough of Lakehurst, County of Ocean, State of New Jersey, that the Liquor License for Hanger 21, Inc. be renewed for the year 2024-2025.

**I, Maryanne Capasso, Municipal Clerk of the Borough of Lakehurst, County of Ocean, State of New Jersey, do hereby certify that the above resolution was approved by the Mayor and Council at the meeting of June 20, 2024.**

---

**Maryanne Capasso, RMC**  
**Municipal Clerk**

**RESOLUTION  
JUNE 20, 2024**

**WHEREAS**, Italy's Best Pizzeria II, L.L.C. has applied to the Mayor and Council of the Borough of Lakehurst for a renewal of Liquor License Number: 1513-33-005-008, for premises located at 652 Route 70, **and**

**WHEREAS**, all necessary forms and fees were submitted to the office of the Municipal Clerk, **and**

**WHEREAS**, the Mayor and Council of the Borough of Lakehurst are not aware of any circumstances or provisions of law which should prohibit the renewal of said license.

**NOW, THEREFORE, BE IT RESOLVED** by the Mayor and Council of the Borough of Lakehurst, County of Ocean, State of New Jersey, that the Liquor License for Italy's Best Pizzeria II, L.L.C. be renewed for the year 2024-2025.

**I, Maryanne Capasso, Municipal Clerk of the Borough of Lakehurst, County of Ocean, State of New Jersey, do hereby certify that the above resolution was approved by the Mayor and Council at the meeting of June 20, 2024.**

---

**Maryanne Capasso, RMC  
Municipal Clerk**

**RESOLUTION  
JUNE 20, 2024**

**WHEREAS**, Fleet Reserve Association Branch 124, Inc., trading as Club 124, has applied to the Mayor and Council of the Borough of Lakehurst for a renewal of Liquor License Number: 1513-31-007-002, for premises located at 204 Union Avenue, **and**

**WHEREAS**, all necessary forms and fees were submitted to the office of the Municipal Clerk, **and**

**WHEREAS**, the Mayor and Council of the Borough of Lakehurst are not aware of any circumstances or provisions of law which should prohibit the renewal of said license.

**NOW, THEREFORE, BE IT RESOLVED** by the Mayor and Council of the Borough of Lakehurst, County of Ocean, State of New Jersey, that the Liquor License for Fleet Reserve Association Branch 124, Inc. be renewed for the year 2024-2025.

**I, Maryanne Capasso, Municipal Clerk of the Borough of Lakehurst, County of Ocean, State of New Jersey, do hereby certify that the above resolution was approved by the Mayor and Council at the meeting of June 20, 2024.**

---

**Maryanne Capasso, RMC  
Municipal Clerk**



**ORDINANCE #2024-05**

**“AN ORDINANCE AMENDING CHAPTER 25-16A STORMWATER CONTROL IN PINELANDS AREA, CHAPTER 25-3.3 PINELANDS COMPREHENSIVE PLAN AND CHAPTER 25-27.48 DESIGN AND PERFORMANCE STANDARDS , WATER QUALITY ENTITLED LAND DEVELOPMENT, OF THE CODE OF THE BOROUGH OF LAKEHURST, COUNTY OF OCEAN AND STATE OF NEW JERSEY”**

**WHEREAS**, the Pinelands Protection Act (N.J.S.A. 13:18A-1) requires that the municipal master plan and local land use ordinances of the Borough of Lakehurst implement the objectives of the Pinelands Comprehensive Management Plan (N.J.A.C. 7:50) and conform with the minimum standards contained therein; and

**WHEREAS**, the Pinelands Comprehensive Management Plan incorporates by reference certain stormwater management regulations contained at N.J.A.C. 7:8; and

**WHEREAS**, the New Jersey Department of Environmental Protection adopted amendments to certain stormwater management regulations contained at N.J.A.C. 7:8, effective July 17, 2023.

**WHEREAS**, the Pinelands Commission adopted amendments to the Pinelands Comprehensive Management Plan, effective December 4, 2023.

**NOW, THEREFORE, BE IT ORDAINED** by the Borough Council of the Borough of Lakehurst, County of Ocean and State of New Jersey, as follows:

**SECTION 1:** Chapter 25, Land Development, Section 25-16A, Stormwater Control in Pinelands Areas is hereby amended (amendments are in red):

**§25-16A. Stormwater Control in Pinelands Area**

## **§25-16A.1. Scope and Purpose**

### **a. Policy Statement**

Flood control, groundwater recharge, erosion control and pollutant reduction shall be achieved using stormwater management measures, including green infrastructure best management practices (BMPs) and nonstructural stormwater management strategies. Green infrastructure BMPs and low impact development should be utilized to meet the goal of maintaining natural hydrology to reduce stormwater runoff volume, reduce erosion, encourage infiltration and groundwater recharge, and reduce pollution. Green infrastructure BMPs and low impact development should be developed based upon physical site conditions and the origin, nature and the anticipated quantity, or amount, of potential pollutants. Multiple stormwater management BMPs may be necessary to achieve the established performance standards for water quality, quantity, and groundwater recharge contained in this Section.

### **b. Purpose**

The purpose of this Section is to establish, within the Pinelands Area portion of Lakehurst Borough, minimum stormwater management requirements and controls as authorized by the Pinelands Protection Act (N.J.S.A. 13:18A-1 et seq.) and consistent with the Pinelands Comprehensive Management Plan (CMP) (N.J.A.C. 7:50-1.1 et seq.) and the New Jersey Department of Environmental Protection (NJDEP) Stormwater Management Regulations (N.J.A.C. 7:8-1.1 et seq.). The standards in this Section are intended to minimize the adverse impact of stormwater runoff on water quality and water quantity, to facilitate groundwater recharge, and to control and minimize soil erosion, stream channel erosion, sedimentation and pollution associated with stormwater runoff. Moreover, Pinelands Area resources are to be protected in accordance with the antidegradation policies contained in the New Jersey Surface Water Quality Standards (N.J.A.C. 7:9B-1.1 et seq.). Additionally, this Section is intended to ensure the adequacy of existing and proposed culverts and bridges and to protect public safety through the proper design and operation of stormwater BMPs. If there are any conflicts between a provision required by the Pinelands CMP and a provision required by the NJDEP, the Pinelands CMP provision shall apply.

### **c. Applicability**

- 1.** The terms “development,” “major development” and “minor development” are defined in **§25-16A.2** in accordance with the Pinelands CMP (N.J.A.C. 7:50-2.11) and differ from the definitions of “development” and “major development” contained in the NJDEP Stormwater Management Regulations (N.J.A.C. 7:8-1.2).
- 2.** This Section shall apply within the Pinelands Area to all major development, and to minor development meeting the following criteria:

- (a) Development involving the construction of four or fewer dwelling units;
  - (b) Development involving any non-residential use and resulting in an increase of greater than 1,000 square feet of regulated motor vehicle surfaces; and
  - (c) Development involving the grading, clearing, or disturbance of an area in excess of 5,000 square feet within any five-year period. For development meeting this criterion, the stormwater management standards for major development set forth in this Section shall apply.
- 3. This Section shall apply to all development meeting the criteria of **2.** above that is undertaken by Lakehurst Borough.
  - 4. Except as provided in **§25-16A.10**, the exemptions, exceptions, applicability standards, and waivers of strict compliance contained in the NJDEP Stormwater Management Regulations at N.J.A.C. 7:8-1.1 et seq. shall not apply within the Pinelands Area.
- d. Compatibility with Other Permit and Ordinance Requirements**
- 1. Development approvals issued pursuant to this Section are to be considered an integral part of development approvals and do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act, or ordinance. In their interpretation and application, the provisions of this Section shall be held to be the minimum requirements for the promotion of the public health, safety, and general welfare.
  - 2. This Section is not intended to interfere with, abrogate, or annul any other ordinances, rule or regulation, statute, or other provision of law except that, where any provision of this Section imposes restrictions different from those imposed by any other ordinance, rule or regulation, or other provision of law, the more restrictive provisions or higher standards shall control.
  - 3. In the event that a regional stormwater management plan(s) is prepared and formally adopted pursuant to N.J.A.C. 7:8-1.1 et seq. for any drainage area(s) or watershed(s) of which Lakehurst Borough is a part, the stormwater provisions of such a plan(s) shall be adopted by Lakehurst Borough within one year of the adoption of a Regional Stormwater Management Plan (RSWMP) as an amendment to an Areawide Water Quality Management Plan. Local ordinances proposed to implement the RSWMP shall be submitted to the Pinelands Commission for certification within six months of the adoption of the RSWMP per N.J.A.C. 7:8 and the Pinelands CMP.

## **§25-16A.2. Definitions**

For the purpose of this Section , the following terms, phrases, words and their derivations shall have the meanings stated herein unless their use in the text of this Section clearly demonstrates a different meaning. When not inconsistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number. The word "shall" is always mandatory and not merely directory. The definitions below are the same as or based on the corresponding definitions in the NJDEP Stormwater Management Rules at N.J.A.C. 7:8-1.2 unless otherwise defined in the Pinelands CMP at N.J.A.C. 7:50-2.11 in which case the definition corresponds to the CMP definition.

“Compaction” means the increase in soil bulk density.

“Contributory drainage area” means the area from which stormwater runoff drains to a stormwater management measure, not including the area of the stormwater management measure itself.

“County review agency” means an agency designated by the County Commissioners to review municipal stormwater management plans and implementing ordinance(s). The county review agency may either be:

- (1) A county planning agency; or
- (2) A county water resource association created under N.J.S.A 58:16A-55.5, if the ordinance or resolution delegates authority to approve, conditionally approve, or disapprove municipal stormwater management plans and implementing ordinances.

“Design engineer” means a person professionally qualified and duly licensed in New Jersey to perform engineering services that may include, but not necessarily be limited to, development of project requirements, creation and development of project design and preparation of drawings and specifications.

"Development" means the change of or enlargement of any use or disturbance of any land, the performance of any building or mining operation, the division of land into two or more parcels, and the creation or termination of rights of access or riparian rights including, but not limited to:

- (1) A change in type of use of a structure or land;
- (2) A reconstruction, alteration of the size, or material change in the external appearance of a structure or land;
- (3) A material increase in the intensity of use of land, such as an increase in the number of businesses, manufacturing establishments, offices or dwelling units in a structure or on land;

- (4) Commencement of resource extraction or drilling or excavation on a parcel of land;
- (5) Demolition of a structure or removal of trees;
- (6) Commencement of forestry activities;
- (7) Deposit of refuse, solid or liquid waste or fill on a parcel of land;
- (8) In connection with the use of land, the making of any material change in noise levels, thermal conditions, or emissions of waste material; and
- (9) Alteration, either physically or chemically, of a shore, bank, or flood plain, seacoast, river, stream, lake, pond, wetlands or artificial body of water.

In the case of development on agricultural land, i.e. lands use for an agricultural use or purpose as defined at N.J.A.C. 7:50-2.11, development means: any activity that requires a State permit, any activity reviewed by the County Agricultural Board (CAB) and the State Agricultural Development Committee (SADC), and municipal review of any activity not exempted by the Right to Farm Act, N.J.S.A. 4:1C-1 et seq.

“Disturbance” means the placement or reconstruction of impervious surface or motor vehicle surface, or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Milling and repaving is not considered disturbance for the purposes of this definition.

“Drainage area” means a geographic area within which stormwater runoff, sediments, or dissolved materials drain to a particular receiving waterbody or to a particular point along a receiving waterbody.

“Environmentally critical area” means an area or feature which is of significant environmental value, including but not limited to: stream corridors, natural heritage priority sites, habitats of endangered or threatened species, large areas of contiguous open space or upland forest, steep slopes, and well head protection and groundwater recharge areas. Habitats of endangered or threatened species are identified using the NJDEP Landscape Project as approved by the NJDEP Endangered and Nongame Species Program.

“Erosion” means the detachment and movement of soil or rock fragments by water, wind, ice, or gravity.

“Green infrastructure” means a stormwater management measure that manages stormwater close to its source by:

- (1) Treating stormwater runoff through infiltration into subsoil;

- (2) Treating stormwater runoff through filtration by vegetation or soil; or
- (3) Storing stormwater runoff for reuse.

"High Pollutant Loading Areas" means areas in industrial and commercial developments where solvents and/or petroleum products are loaded/unloaded, stored, or applied, areas where pesticides are loaded/unloaded or stored; areas where hazardous materials are expected to be present in greater than "reportable quantities" as defined by the United States Environmental Protection Agency (EPA) at 40 CFR 302.4; areas where recharge would be inconsistent with NJDEP approved remedial action work plan or landfill closure plan and areas with high risks for spills of toxic materials, such as gas stations and vehicle maintenance facilities.

"HUC-11" or "hydrologic unit code 11" means an area within which water drains to a particular receiving surface water body, also known as a subwatershed, which is identified by an 11-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

"HUC 14" or "hydrologic unit code 14" means an area within which water drains to a particular receiving surface water body, also known as a subwatershed, which is identified by a 14-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

"Impervious surface" means any surface that has been compacted or covered with a layer of material so that it prevents, impedes or slows infiltration or absorption of fluid, including stormwater directly into the ground, and results in either reduced groundwater recharge or increased stormwater runoff sufficient to be classified as impervious in Urban Areas by the United States Department of Agriculture, Natural Resources Conservation Service Title 210 - Engineering, 210-3-1 - Small Watershed Hydrology (WINTR-55) Version 1.0, incorporated herein by reference, as amended and supplemented, available with user guide and tutorials at [http://www.wsi.nrcs.usda.gov/products/W2Q/H&H/Tools\\_Models/WinTr55.html](http://www.wsi.nrcs.usda.gov/products/W2Q/H&H/Tools_Models/WinTr55.html) or at Natural Resources Conservation Service, 220 Davidson Avenue, Somerset, NJ 08873. Such surfaces may have varying degrees of permeability.

"Infiltration" is the process by which water seeps into the soil from precipitation.

"Major development" means any division of land into five or more lots; any construction or expansion of any housing development of five or more dwelling units; any construction or expansion of any commercial or industrial use or structure on a site of more than three acres; or any grading, clearing or disturbance of an area in excess of 5,000 square feet.

"Minor development" means all development other than major development.

“Motor vehicle” means land vehicles propelled other than by muscular power, such as automobiles, motorcycles, autocycles, and low speed vehicles. For the purposes of this definition, motor vehicle does not include farm equipment, snowmobiles, all-terrain vehicles, motorized wheelchairs, go-carts, gas buggies, golf carts, ski-slope grooming machines, or vehicles that run only on rails or tracks.

“Motor vehicle surface” means any pervious or impervious surface that is intended to be used by “motor vehicles” and/or aircraft, and is directly exposed to precipitation including, but not limited to, driveways, parking areas, parking garages, roads, racetracks, and runways.

“New Jersey Stormwater Best Management Practices (BMP) Manual” or “BMP Manual” means the manual maintained by the NJDEP providing, in part, design specifications, removal rates, calculation methods, and soil testing procedures approved by the NJDEP as being capable of contributing to the achievement of the stormwater management standards specified in this Section. The BMP Manual is periodically amended by the NJDEP as necessary to provide design specifications on additional best management practices and new information on already included practices reflecting the best available current information regarding the particular practice and the NJDEP’s determination as to the ability of that best management practice to contribute to compliance with the standards contained in this Section. Alternative stormwater management measures, removal rates, or calculation methods may be utilized, subject to any limitations specified in this Section, provided the design engineer demonstrates to the municipality, in accordance with **§25-16A.3f** and N.J.A.C. 7:8-5.2(g), that the proposed measure and its design will contribute to achievement of the design and performance standards established by this Section.

“Nutrient” means a chemical element or compound, such as nitrogen or phosphorus, which is essential to and promotes the development of organisms.

"Permeability" means the rate at which water moves through a unit area of soil, rock, or other material at hydraulic gradient of one.

“Person” means an individual, corporation, public agency, business trust, partnership, association, two or more persons having a joint or common interest, or any other legal entity.

“Pollutant” means any dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, medical wastes, radioactive substance (except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C. §§ 2011 et seq.)), thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt, industrial, municipal, agricultural, and construction waste or runoff, or other residue discharged directly or indirectly to the land, ground waters or surface waters of the State, or to a domestic treatment works. “Pollutant” includes both hazardous and nonhazardous pollutants.

“Recharge” means the amount of water from precipitation that infiltrates into the ground and is not evapotranspired.

“Regulated motor vehicle surface” means any of the following, alone or in combination:

- (1) A net increase in motor vehicle surface; and/or
- (2) The total area of motor vehicle surface that is currently receiving water quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater treatment plant, where the water quality treatment will be modified or removed.

“Seasonal high water table” means the level below the natural surface of the ground to which water seasonally rises in the soil in most years.

“Sediment” means solid material, mineral or organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water or gravity as a product of erosion.

“Site” means the lot or lots upon which development is to occur or has occurred.

“Soil” means all unconsolidated mineral and organic material of any origin.

“Source material” means any material(s) or machinery, located at an industrial facility, that is directly or indirectly related to process, manufacturing or other industrial activities, which could be a source of pollutants in any industrial stormwater discharge to groundwater. Source materials include, but are not limited to, raw materials; intermediate products; final products; waste materials; by-products; industrial machinery and fuels, and lubricants, solvents, and detergents that are related to process, manufacturing, or other industrial activities that are exposed to stormwater.

“Stormwater” means water resulting from precipitation (including rain and snow) that runs off the land’s surface, is transmitted to the subsurface, or is captured by separate storm sewers or other sewage or drainage facilities, or conveyed by snow removal equipment.

“Stormwater management BMP” means an excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management BMP may either be normally dry (that is, a detention basin or infiltration system), retain water in a permanent pool (a retention basin), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).

“Stormwater management measure” means any practice, technology, process, program, or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater or to eliminate illicit or illegal non-stormwater discharges into stormwater conveyances.



“Stormwater runoff” means water flow on the surface of the ground or in storm sewers, resulting from precipitation.

“Waters of the State” means the ocean and its estuaries, all springs, streams, wetlands, and bodies of surface or groundwater, whether natural or artificial, within the boundaries of the State of New Jersey or subject to its jurisdiction.

“Wetlands” or “wetland” means lands which are inundated or saturated by water at a magnitude, duration and frequency sufficient to support the growth of hydrophytes. Wetlands include lands with poorly drained or very poorly drained soils as designated by the National Cooperative Soils Survey of the Soil Conservation Service of the United States Department of Agriculture. Wetlands include coastal wetlands and inland wetlands, including submerged lands. The "New Jersey Pinelands Commission Manual for Identifying and Delineating Pinelands Area Wetlands--a Pinelands Supplement to the Federal Manual for Identifying and Delineating Jurisdictional Wetlands," dated January, 1991, as amended, may be utilized in delineating the extent of wetlands based on the definitions of wetlands and wetlands soils contained in N.J.A.C. 7:50-2.11, 6.3, 6.4 and 6.5.

“Wetland transition area” means an area within 300 feet of any wetland.

### **§25-16A.3. Stormwater Management Requirements**

- a.** Stormwater management measures for development regulated under this Section shall be designed to provide erosion control, groundwater recharge, stormwater runoff quantity control and stormwater runoff quality treatment in accordance with this Section.
  - 1.** Major development shall meet the minimum design and performance standards for erosion control established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules at N.J.A.C. 2:90 and 16:25A.
  - 2.** All development regulated under this Section shall meet the minimum design and performance standards for groundwater recharge, stormwater runoff quality, and stormwater runoff quantity at **§25-16A.3o, p, and q** by incorporating green infrastructure as provided at **§25-16A.3n**.
- b.** All development regulated under this Section shall incorporate a maintenance plan for the stormwater management measures in accordance with **§25-16A.9**.
- c.** Stormwater management measures shall avoid adverse impacts of concentrated flow on habitat for threatened and endangered species in accordance with N.J.A.C. 7:8-5.2(c) and N.J.A.C. 7:50-6.27 and 6.33.

- d.** **Tables 1, 2, and 3** below summarize the ability of stormwater best management practices identified and described in the New Jersey Stormwater BMP Manual to satisfy the green infrastructure, groundwater recharge, stormwater runoff quality and stormwater runoff quantity standards specified in **§25-16A.3n, o, p, and q**. When designed in accordance with the most current version of the New Jersey Stormwater BMP Manual and this Section, the stormwater management measures found in **Tables 1, 2, and 3** are presumed to be capable of providing stormwater controls for the design and performance standards as outlined in the tables below. Upon amendments of the New Jersey Stormwater BMP Manual to reflect additions or deletions of BMPs meeting these standards, or changes in the presumed performance of BMPs designed in accordance with the New Jersey Stormwater BMP Manual, the NJDEP shall publish in the New Jersey Registers a notice of administrative change revising the applicable table. The most current version of the BMP Manual can be found on the NJDEP website at: [https://njstormwater.org/bmp\\_manual2.htm](https://njstormwater.org/bmp_manual2.htm)—<https://dep.nj.gov/stormwater/bmp-manual/>.
- e.** Where the BMP tables at N.J.A.C. 7:8-5.2(f) differ with **Tables 1, 2 and 3** below due to amendment, the BMP Tables at N.J.A.C. 7:8-5.2(f) shall take precedence, except that in all cases the lowest point of infiltration must maintain a minimum separation of two (2) feet to seasonal high water table as required by **§25-16A.3h2** unless otherwise noted.

**Table 1: Green Infrastructure BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity**

| Best Management Practice                          | Stormwater Runoff Quality TSS Removal Rate (percent) | Stormwater Runoff Quantity | Groundwater Recharge | Minimum Separation from Seasonal High Water Table (Feet) |
|---|--|----------------------------|----------------------|--|
| Cistern   | 0  | Yes                        | No                   | --   |
| Dry Well <sup>(a)</sup>                           | 0  | No                         | Yes                  | 2  |
| Grass Swale                                       | 50 or less   | No                         | No                   | 2 <sup>(e)</sup>   |
|   |  |                            |                      | 1 <sup>(f)</sup>   |
| Green Roof  | 0  | Yes                        | No                   | --   |
| Manufactured Treatment Device <sup>(a), (g)</sup> | 50 or 80   | No                         | No                   | Dependent upon the device                                |
| Pervious Paving System <sup>(a)</sup>             | 80   | Yes                        | Yes <sup>(b)</sup>   | 2 <sup>(b)</sup>   |
|   |  |                            | No <sup>(c)</sup>    | 2 <sup>(c)</sup>   |
| Small-Scale Bioretention Basin <sup>(a)</sup>     | 80 or 90   | Yes                        | Yes <sup>(b)</sup>   | 2 <sup>(b)</sup>   |
|   |  |                            | No <sup>(c)</sup>    | 1 <sup>(c)</sup>   |
| Small-Scale Infiltration Basin <sup>(a)</sup>     | 80   | Yes                        | Yes                  | 2  |
| Small Scale Sand Filter <sup>(a)</sup>            | 80   | Yes                        | Yes                  | 2  |
| Vegetative Filter Strip                           | 60-80  | No                         | No                   | --   |

**Table 2: Green Infrastructure BMPs for Stormwater Runoff Quantity (or for Groundwater Recharge and/or Stormwater Runoff Quality with a Variance from N.J.A.C. 7:8-5.3)**

| Best Management Practice     | Stormwater Runoff Quality TSS Removal Rate (percent) | Stormwater Runoff Quantity | Groundwater Recharge | Minimum Separation from Seasonal High Water Table (Feet) |
|------------------------------|--|----------------------------|----------------------|--|
| Bioretention System          | 80 or 90   | Yes                        | Yes <sup>(b)</sup>   | 2 <sup>(b)</sup>   |
|                              |  |                            | No <sup>(c)</sup>    | 1 <sup>(c)</sup>   |
| Infiltration Basin           | 80   | Yes                        | Yes                  | 2  |
| Sand Filter <sup>(b)</sup>   | 80   | Yes                        | Yes                  | 2  |
| Standard Constructed Wetland | 90   | Yes                        | No                   | 2 <sup>(i)</sup>   |
| Wet Pond <sup>(d)</sup>      | 50-90  | Yes                        | No                   | 2 <sup>(i)</sup>   |

**Table 3: BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity only with a Variance from N.J.A.C. 7:8-5.3**

| Best Management Practice                     | Stormwater Runoff Quality TSS Removal Rate (percent) | Stormwater Runoff Quantity | Groundwater Recharge | Minimum Separation from Seasonal High Water Table (Feet) |
|--|--|----------------------------|----------------------|--|
| Blue Roof                                    | 0  | Yes                        | No                   | N/A  |
| Extended Detention Basin                     | 40-60  | Yes                        | No                   | 2  |
| Manufactured Treatment Device <sup>(h)</sup> | 50 or 80   | No                         | No                   | Dependent upon the device                                |
| Sand Filter <sup>(c)</sup>                   | 80   | Yes                        | No                   | 2  |
| Subsurface Gravel Wetland                    | 90   | No                         | No                   | 2  |
| Wet Pond                                     | 50-90  | Yes                        | No                   | 2 <sup>(i)</sup>   |

**Footnotes to Tables 1, 2, and 3:**

- (a) subject to the applicable contributory drainage area limitation specified at **§25-16A.3n2**.
- (b) designed to infiltrate into the subsoil.
- (c) designed with underdrains, where stormwater percolates into the underdrain through the soils and is not directed to the underdrain by an outlet control structure.
- (d) designed to maintain at least a 10-foot wide area of native vegetation along at least 50 percent of the shoreline and to include a stormwater runoff retention component designed to capture stormwater runoff for beneficial reuse, such as irrigation.
- (e) designed with a slope of less than two percent.
- (f) designed with a slope of equal to or greater than two percent.
- (g) manufactured treatment devices that meet the definition of green infrastructure at **§25-16A.2**.
- (h) manufactured treatment devices that do not meet the definition of green infrastructure at **§25-16A.2**.
- (i) the top elevation of the impermeable layer or liner must maintain this 2-foot minimum separation to the seasonal high water table.

**f.** An alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate may be used if the design engineer demonstrates the capability of the proposed alternative stormwater management measure and/or the validity of the alternative rate or method to the municipality. A copy of any approved alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate shall be provided to the NJDEP and the Pinelands Commission in accordance with **§25-16A.5b**. Alternative stormwater management measures may be used to satisfy the requirements at **§25-16A.3n** only if the measures meet the definition of green infrastructure at **§25-16A.2**. Alternative stormwater management measures that function in a similar manner to a BMP listed at **§25-16A.3n2** are subject to the contributory drainage area limitation specified at **§25-16A.3n2** for that similarly functioning BMP. Alternative stormwater management measures approved in

accordance with this subsection that do not function in a similar manner to any BMP listed at **§25-16A.3n2** shall have a contributory drainage area less than or equal to 2.5 acres, except for alternative stormwater management measures that function similarly to cisterns, grass swales, green roofs, standard constructed wetlands, vegetative filter strips, and wet ponds, which are not subject to a contributory drainage area limitation. Alternative measures that function similarly to standard constructed wetlands or wet ponds shall not be used for compliance with the stormwater runoff quality standard unless a variance in accordance with **§25-16A.10** is granted from **§25-16A.3n**.

**g. Hydraulic Impacts**

1. For all major development, groundwater mounding analysis shall be required for purposes of assessing the hydraulic impacts of mounding of the water table resulting from infiltration of stormwater runoff from the maximum storm designed for infiltration. The mounding analysis shall provide details and supporting documentation on the methodology used. Groundwater mounds shall not cause stormwater or groundwater to breakout to the land surface or cause adverse impacts to adjacent water bodies, wetlands, or subsurface structures, including, but not limited to, basements and septic systems. Where the mounding analysis identifies adverse impacts, the stormwater management measure shall be redesigned or relocated, as appropriate.
2. For all applicable minor development, a design engineer's certification that each green infrastructure stormwater management measure will not adversely impact basements or septic systems of the proposed development shall be required.

**h. Design standards for stormwater management measures are as follows:**

1. Stormwater management measures shall be designed to take into account the existing site conditions, including, but not limited to, environmentally critical areas; wetlands; wetland transition areas; flood-prone areas; slopes; depth to seasonal high water table; soil type, permeability, and texture; drainage area and drainage patterns; and the presence of solution-prone carbonate rocks (limestone);
2. Stormwater management measures designed to infiltrate stormwater shall be designed, constructed, and maintained to provide a minimum separation of at least two feet between the elevation of the lowest point of infiltration and the seasonal high water table;
3. Stormwater management measures designed to infiltrate stormwater shall be sited in suitable soils verified by testing to have permeability rates between one and 20 inches per hour. A factor of safety of two shall be applied to the soil's permeability rate in determining the infiltration measure's design permeability rate. If such soils do not exist on the parcel proposed for development or if it is demonstrated that it is not practical for engineering, environmental, or safety reasons to site the stormwater infiltration measure(s) in such soils, the stormwater

infiltration measure(s) may be sited in soils verified by testing to have permeability rates in excess of 20 inches per hour, provided that stormwater is routed through a bioretention system prior to infiltration. Said bioretention system shall be designed, installed, and maintained in accordance with the New Jersey Stormwater BMP Manual;

4. The use of stormwater management measures that are smaller in size and distributed spatially throughout a parcel, rather than the use of a single, larger stormwater management measure shall be required;
5. Methods of treating stormwater prior to entering any stormwater management measure shall be incorporated into the design of the stormwater management measure to the maximum extent practical;
6. To avoid sedimentation that may result in clogging and reduction of infiltration capability and to maintain maximum soil infiltration capacity, the construction of stormwater management measures that rely upon infiltration shall be managed in accordance with the following standards:
  - (a) No stormwater management measure shall be placed into operation until its drainage area has been completely stabilized. Instead, upstream runoff shall be diverted around the measure and into separate, temporary stormwater management facilities and sediment basins. Such temporary facilities and basins shall be installed and utilized for stormwater management and sediment control until stabilization is achieved in accordance with N.J.A.C. 2:90;
  - (b) If, for engineering, environmental, or safety reasons, temporary stormwater management facilities and sediment basins cannot be constructed on the parcel in accordance with (a) above, the stormwater management measure may be placed into operation prior to the complete stabilization of its drainage area provided that the measure's bottom during this period is constructed at a depth at least two feet higher than its final design elevation. When the drainage area has been completely stabilized, all accumulated sediment shall be removed from the stormwater management measure, which shall then be excavated to its final design elevation; and
  - (c) To avoid compacting the soils below a stormwater management measure designed to infiltrate stormwater, no heavy equipment, such as backhoes, dump trucks, or bulldozers shall be permitted to operate within the footprint of the stormwater management measure. All excavation required to construct a stormwater management measure that relies on infiltration shall be performed by equipment placed outside the footprint of the stormwater management measure. If this is not possible, the soils within the excavated area shall be renovated and tilled after construction is completed. Earthwork associated with stormwater management measure construction, including excavation,

grading, cutting, or filling, shall not be performed when soil moisture content is above the lower plastic limit;

7. Dry wells shall be designed to prevent access by amphibian and reptiles;
8. Stormwater management measures shall be designed to minimize maintenance, facilitate maintenance and repairs, and ensure proper functioning. Trash racks shall be installed at the intake to the outlet structure, as appropriate, and shall have parallel bars with one-inch spacing between the bars to the elevation of the water quality design storm established at **§25-16A.3p4**. For elevations higher than the water quality design storm, the parallel bars at the outlet structure shall be spaced no greater than one-third the width of the diameter of the orifice or one-third the width of the weir, with a minimum spacing between bars of one inch and a maximum spacing between bars of six inches. In addition, the design of trash racks must comply with the requirements of **§25-16A.7c1**;
9. Stormwater management measures shall be designed, constructed, and installed to be strong, durable, and corrosion resistant. Measures that are consistent with the relevant portions of the Residential Site Improvement Standards at N.J.A.C. 5:21-7.3, 7.4, and 7.5 shall be deemed to meet this requirement;
10. Stormwater management BMPs shall be designed to meet the minimum safety standards for stormwater management BMPs at **§25-16A.7**; and
11. The size of the orifice at the intake to the outlet from the stormwater management BMP shall be a minimum of two and one-half inches in diameter.
  - i. Manufactured treatment devices may be used to meet the requirements of this Section, provided the pollutant removal rates are verified by the New Jersey Corporation for Advanced Technology and certified by the NJDEP. Manufactured treatment devices that do not meet the definition of green infrastructure at **§25-16A.2** may be used only under the circumstances described at **§25-16A.3n4**.
  - j. Any application for a new agricultural development that meets the definition of major development at N.J.A.C. 7:8-1.2 shall be submitted to the Soil Conservation District for review and approval in accordance with the requirements at **§25-16A.3n, o, p, and q** and any applicable Soil Conservation District guidelines for stormwater runoff quantity and erosion control. For purposes of this subsection, "agricultural development" means land uses normally associated with the production of food, fiber, and livestock for sale. Such uses do not include the development of land for the processing or sale of food and the manufacture of agriculturally related products.
  - k. If there is more than one drainage area, the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at **§25-16A.3o, p, and q** shall be met in each drainage area, unless the runoff from the drainage areas converge onsite and no adverse environmental impact would occur as a result of compliance with any

one or more of the individual standards being determined utilizing a weighted average of the results achieved for that individual standard across the affected drainage areas.

- l.** Any stormwater management measure authorized under the municipal stormwater management plan or this Section shall be reflected in a deed notice recorded in the Ocean County Clerk's Office. A form of deed notice shall be submitted to the municipality for approval prior to filing. The deed notice shall contain a description of the stormwater management measure(s) used to meet the green infrastructure, groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at **§25-16A.3n, o, p, and q** and shall identify the location of the stormwater management measure(s) in NAD 1983 State Plane New Jersey FIPS 2900 US Feet or Latitude and Longitude in decimal degrees. The deed notice shall also reference the maintenance plan required to be recorded upon the deed pursuant to **§25-16A.9b5**. Prior to the commencement of construction, proof that the above required deed notice has been filed shall be submitted to the municipality. Proof that the required information has been recorded on the deed shall be in the form of either a copy of the complete recorded document or a receipt from the clerk or other proof of recordation provided by the recording office. However, if the initial proof provided to the municipality is not a copy of the complete recorded document, a copy of the complete recorded document shall be provided to the municipality within 180 calendar days of the authorization granted by the municipality.
- m.** A stormwater management measure approved under the municipal stormwater management plan or this Section may be altered or replaced with the approval of the municipality, if the municipality determines that the proposed alteration or replacement meets the design and performance standards contained in **§25-16A.3n, o, p, and q** and provides the same level of stormwater management as the previously approved stormwater management measure that is being altered or replaced. If an alteration or replacement is approved, a revised deed notice shall be submitted to the municipality for approval and subsequently recorded with the Ocean County Clerk's Office and shall contain a description and location of the stormwater management measure, as well as reference to the maintenance plan, in accordance with **l.** above. Prior to the commencement of construction, proof that the above required deed notice has been filed shall be submitted to the municipality in accordance with **l.** above.
- n.** Green Infrastructure Standards

  - 1.** This subsection specifies the types of green infrastructure BMPs that may be used to satisfy the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards of this Section.
  - 2.** To satisfy the groundwater recharge and stormwater runoff quality standards at **§25-16A.3o and p**, the design engineer shall utilize BMPs identified in **Table 1** at **§25-16A.3e** and/or an alternative stormwater management measure approved in accordance with **§25-16A.3f**. The following green infrastructure BMPs are subject to the following maximum contributory drainage area limitations:



| <b>Best Management Practice</b>  | <b>Maximum Contributory Drainage Area</b>  |
|----------------------------------|--|
| Dry Well                         | 1 acre   |
| Manufactured Treatment Device    | 2.5 acres  |
| Pervious Pavement System         | Area of additional inflow cannot exceed three times the area occupied by the BMP |
| Small-scale Bioretention Systems | 2.5 acres  |
| Small-scale Infiltration Basin   | 2.5 acres  |
| Small-scale Sand Filter          | 2.5 acres  |

3. To satisfy the stormwater runoff quantity standards at **§25-16A.3q**, the design engineer shall utilize BMPs identified in **Table 1** or **2** at **§25-16A.3e** and/or an alternative stormwater management measure approved in accordance with **§25-16A.3f**.
  4. If a variance in accordance with **§25-16A.10** is granted from the requirements of this subsection, then BMPs from **Table 1, 2, or 3** at **§25-16A.3e** and/or an alternative stormwater management measure approved in accordance with **§25-16A.3f** may be used to meet the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at **§25-16A.3o, p, and q**.
  5. For separate or combined storm sewer improvement projects, such as sewer separation, undertaken by a government agency or public utility (for example, a sewerage company), the requirements of this subsection shall only apply to areas owned in fee simple by the government agency or utility, and areas within a right-of-way or easement held or controlled by the government agency or utility; the entity shall not be required to obtain additional property or property rights to fully satisfy the requirements of this subsection. Regardless of the amount of area of a separate or combined storm sewer improvement project subject to the green infrastructure requirements of this subsection, each project shall fully comply with the applicable groundwater recharge, stormwater runoff quality control, and stormwater runoff quantity standards at **§25-16A.3o, p, and q**.
- o. Groundwater Recharge Standards**
1. This subsection contains the minimum design and performance standards for groundwater recharge as follows:
    2. For all major development, the total runoff volume generated from the net increase in impervious surfaces by a the current 10-year, 24-hour storm, as defined and determined in §25-16A.4h, shall be retained and infiltrated onsite.
    3. For minor development that involves the construction of four or fewer dwelling units, the runoff generated from the total roof area of the dwelling(s) by a the current 10-year, 24-hour storm, as defined and determined in §25-16A.4h, shall be retained and infiltrated through installation of one or more green

infrastructure stormwater management measures designed in accordance with the New Jersey Stormwater BMP Manual. Appropriate green infrastructure stormwater management measures include, but are not limited to dry wells, pervious pavement systems, and small scale bioretention systems, including rain gardens.

4. For minor development that involves any nonresidential use and will result in an increase of greater than 1,000 square feet of regulated motor vehicle surfaces, the water quality design storm volume generated from these surfaces shall be recharged onsite.
  5. Stormwater from areas of high pollutant loading and/or industrial stormwater exposed to source material shall only be recharged in accordance with **§25-16A.3p8**.
- p. Stormwater Runoff Quality Standards
1. This subsection contains the minimum design and performance standards to control stormwater runoff quality impacts of:
    - (a) Major development;
    - (b) Minor development that involves any nonresidential use and will result in an increase of greater than 1,000 square feet of regulated motor vehicle surfaces; and
    - (c) Any development involving the grading, clearing, or disturbance of an area in excess of 5,000 square feet within any five-year period.
  2. Stormwater management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff generated from the water quality design storm established at **§25-16A.3p4** as follows:
    - (a) Eighty percent TSS removal of the anticipated load, expressed as an annual average shall be achieved for the stormwater runoff from the net increase of motor vehicle surface.
    - (b) If the surface is considered regulated motor vehicle surface because the water quality treatment for an area of motor vehicle surface that is currently receiving water quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater treatment plant is to be modified or removed, the project shall maintain or increase the existing TSS removal of the anticipated load expressed as an annual average.
  3. The requirement to reduce TSS does not apply to any stormwater runoff in a discharge regulated under a numeric effluent limitation for TSS imposed under

the New Jersey Pollutant Discharge Elimination System (NJPDES) rules, N.J.A.C. 7:14A, or in a discharge specifically exempt under a NJPDES permit from this requirement. Every major development, including any that discharge into a combined sewer system, shall comply with **2.** above, unless the major development is itself subject to a NJPDES permit with a numeric effluent limitation for TSS or the NJPDES permit to which the major development is subject exempts the development from a numeric effluent limitation for TSS.

- 4.** The water quality design storm is 1.25 inches of rainfall in two hours. Water quality calculations shall take into account the distribution of rain from the water quality design storm, as reflected in **Table 4**, below. The calculation of the volume of runoff may take into account the implementation of stormwater management measures.

**Table 4: Water Quality Design Storm Distribution**

| <b>Time<br/>(Minutes)</b> | <b>Cumulative<br/>Rainfall<br/>(Inches)</b> | <b>Time<br/>(Minutes)</b> | <b>Cumulative<br/>Rainfall<br/>(Inches)</b> | <b>Time<br/>(Minutes)</b> | <b>Cumulative<br/>Rainfall<br/>(Inches)</b> |
|---------------------------|---|---------------------------|---|---------------------------|---|
| 1                         | 0.00166                                     | 41                        | 0.1728                                      | 81                        | 1.0906                                      |
| 2                         | 0.00332                                     | 42                        | 0.1796                                      | 82                        | 1.0972                                      |
| 3                         | 0.00498                                     | 43                        | 0.1864                                      | 83                        | 1.1038                                      |
| 4                         | 0.00664                                     | 44                        | 0.1932                                      | 84                        | 1.1104                                      |
| 5                         | 0.0083                                      | 45                        | 0.2   | 85                        | 1.117                                       |
| 6                         | 0.00996                                     | 46                        | 0.2117                                      | 86                        | 1.1236                                      |
| 7                         | 0.01162                                     | 47                        | 0.2233                                      | 87                        | 1.1302                                      |
| 8                         | 0.01328                                     | 48                        | 0.235                                       | 88                        | 1.1368                                      |
| 9                         | 0.01494                                     | 49                        | 0.2466                                      | 89                        | 1.1434                                      |
| 10                        | 0.0166                                      | 50                        | 0.2583                                      | 90                        | 1.15  |
| 11                        | 0.01828                                     | 51                        | 0.2783                                      | 91                        | 1.155                                       |
| 12                        | 0.01996                                     | 52                        | 0.2983                                      | 92                        | 1.16  |
| 13                        | 0.02164                                     | 53                        | 0.3183                                      | 93                        | 1.165                                       |
| 14                        | 0.02332                                     | 54                        | 0.3383                                      | 94                        | 1.17  |
| 15                        | 0.025                                       | 55                        | 0.3583                                      | 95                        | 1.175                                       |
| 16                        | 0.03  | 56                        | 0.4116                                      | 96                        | 1.18  |
| 17                        | 0.035                                       | 57                        | 0.465                                       | 97                        | 1.185                                       |
| 18                        | 0.04  | 58                        | 0.5183                                      | 98                        | 1.19  |
| 19                        | 0.045                                       | 59                        | 0.5717                                      | 99                        | 1.195                                       |
| 20                        | 0.05  | 60                        | 0.625                                       | 100                       | 1.2   |
| 21                        | 0.055                                       | 61                        | 0.6783                                      | 101                       | 1.205                                       |
| 22                        | 0.06  | 62                        | 0.7317                                      | 102                       | 1.21  |
| 23                        | 0.065                                       | 63                        | 0.785                                       | 103                       | 1.215                                       |
| 24                        | 0.07  | 64                        | 0.8384                                      | 104                       | 1.22  |
| 25                        | 0.075                                       | 65                        | 0.8917                                      | 105                       | 1.225                                       |
| 26                        | 0.08  | 66                        | 0.9117                                      | 106                       | 1.2267                                      |
| 27                        | 0.085                                       | 67                        | 0.9317                                      | 107                       | 1.2284                                      |
| 28                        | 0.09  | 68                        | 0.9517                                      | 108                       | 1.23  |
| 29                        | 0.095                                       | 69                        | 0.9717                                      | 109                       | 1.2317                                      |
| 30                        | 0.1   | 70                        | 0.9917                                      | 110                       | 1.2334                                      |
| 31                        | 0.1066                                      | 71                        | 1.0034                                      | 111                       | 1.2351                                      |
| 32                        | 0.1132                                      | 72                        | 1.015                                       | 112                       | 1.2367                                      |
| 33                        | 0.1198                                      | 73                        | 1.0267                                      | 113                       | 1.2384                                      |
| 34                        | 0.1264                                      | 74                        | 1.0383                                      | 114                       | 1.24  |
| 35                        | 0.133                                       | 75                        | 1.05  | 115                       | 1.2417                                      |
| 36                        | 0.1396                                      | 76                        | 1.0568                                      | 116                       | 1.2434                                      |
| 37                        | 0.1462                                      | 77                        | 1.0636                                      | 117                       | 1.245                                       |
| 38                        | 0.1528                                      | 78                        | 1.0704                                      | 118                       | 1.2467                                      |
| 39                        | 0.1594                                      | 79                        | 1.0772                                      | 119                       | 1.2483                                      |
| 40                        | 0.166                                       | 80                        | 1.084                                       | 120                       | 1.25  |

5. If more than one BMP in series is necessary to achieve the required 80 percent TSS reduction for a site, the applicant shall utilize the following formula to calculate TSS reduction:

$$R = A + B - (A \times B) / 100$$

Where,

R = total TSS Percent Load Removal from application of both BMPs, and  
A = the TSS Percent Removal Rate applicable to the first BMP  
B = the TSS Percent Removal Rate applicable to the second BMP.

6. Stormwater management measures shall also be designed to reduce, to the maximum extent feasible, the post-construction nutrient load of the anticipated load from the developed site in stormwater runoff generated from the water quality design storm established at **§25-16A.3p4**. In achieving reduction of nutrients to the maximum extent feasible, the design of the site shall include green infrastructure BMPs that optimize nutrient removal while still achieving the performance standards in **§25-16A.3o, p, and q**.
7. For all major development, stormwater management measures shall be designed to achieve a minimum of 65 percent reduction of the post-construction total nitrogen load from the developed site, including those permanent lawn or turf areas that are specifically intended for active human use as described at N.J.A.C. 7:50-6.24(c)3, in stormwater runoff generated from the water quality design storm established at **§25-16A.3p4**. In achieving a minimum 65 percent reduction of total nitrogen, the design of the site shall include green infrastructure in accordance with the New Jersey Stormwater BMP Manual and shall optimize nutrient removal. The minimum 65 percent total nitrogen reduction may be achieved by using a singular stormwater management measure or multiple stormwater management measures in series.
8. In high pollutant loading areas (HPLAs) and/or areas where stormwater runoff is exposed to source material, as defined in **§25-16A.2**, the following additional water quality standards shall apply:
  - (a) The areal extent and amount of precipitation falling directly on or flowing over HPLAs and/or areas where stormwater is exposed to source material shall be minimized through the use of roof covers, canopies, curbing or other physical means to the maximum extent practical in order to minimize the quantity of stormwater generated from HPLA areas and areas where stormwater runoff is exposed to source material;
  - (b) The stormwater runoff originating from HPLAs and/or areas where stormwater runoff is exposed to source material shall be segregated and prohibited from co-mingling with stormwater runoff originating from the

remainder of the parcel unless it is first routed through one or more stormwater management measures required at (c) below;

(c) The stormwater runoff from HPLAs and/or areas where stormwater runoff is exposed to source material shall incorporate stormwater management measures designed to reduce the post-construction load of TSS by at least 90 percent in stormwater runoff generated from the water quality design storm established at §25-16A.3p4 using one or more of the measures identified at (1) or (2) below. In meeting this requirement, the minimum 90 percent removal of total suspended solids may be achieved by utilizing multiple stormwater management measures in series:

(1) Any measure designed in accordance with the New Jersey Stormwater BMP Manual to remove total suspended solids. Any such measure must be constructed to ensure that the lowest point of infiltration within the measure maintains a minimum of two feet of vertical separation from the seasonal high-water table; and

(2) Other measures certified by the NJDEP, including a Media Filtration System manufactured treatment device with a minimum 80 percent removal of total suspended solids as verified by the New Jersey Corporation for Advanced Technology; and

(d) If the potential for contamination of stormwater runoff by petroleum products exists onsite, prior to being conveyed to the stormwater management measure required at (c) above, the stormwater runoff from the HPLAs and areas where stormwater runoff is exposed to source material shall be conveyed through an oil/grease separator or other equivalent manufactured filtering device providing for the removal of petroleum hydrocarbons. The applicant shall provide the review agency with sufficient data to demonstrate acceptable performance of the device.

9. The Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-4.1(c)1 establish 300-foot riparian zones along Category One waters, as designated in the Surface Water Quality Standards at N.J.A.C. 7:9B, and certain upstream tributaries to Category One waters. A person shall not undertake a major development that is located within or discharges into a 300-foot riparian zone without prior authorization from the Department under N.J.A.C. 7:13.

10. Pursuant to the Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-11.2(j)3.i, runoff from the water quality design storm that is discharged within a 300-foot riparian zone shall be treated in accordance with this subsection to reduce the post-construction load of total suspended solids by 95 percent of the anticipated load from the developed site, expressed as an annual average.

q. Stormwater Runoff Quantity Standards

1. This subsection contains the minimum design and performance standards to control stormwater runoff quantity impacts related to applicable major and minor development.
2. In order to control stormwater runoff quantity impacts, the design engineer shall, using the assumptions and factors for stormwater runoff calculations at **§25-16A.4**, complete one of the following:

**(a)** Demonstrate through hydrologic and hydraulic analysis that for stormwater leaving the site, post-construction runoff hydrographs for the current and projected 2-, 10-, and 100-year storm events, as defined and determined in §25-16A.4h and i, do not exceed, at any point in time, the pre-construction runoff hydrographs for the same storm events;

**(b)** Demonstrate through hydrologic and hydraulic analysis that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the current and projected 2-, 10- and 100-year storm events, as defined and determined in §25-16A.4h and i, and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site. This analysis shall include the analysis of impacts of existing land uses and projected land uses assuming full development under existing zoning and land use ordinances in the drainage area;

**(c)** Design stormwater management measures so that the post-construction peak runoff rates for the current and projected 2-, 10- and 100-year storm events, as defined and determined in §25-16A.4h and i, are 50, 75 and 80 percent, respectively, of the pre-construction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed; or

**(d)** In tidal flood hazard areas, stormwater runoff quantity analysis in accordance with **(a)**, **(b)**, and **(c)** above is required unless the design engineer demonstrates through hydrologic and hydraulic analysis that the increased volume, change in timing, or increased rate of the stormwater runoff, or any combination of the three will not result in additional flood damage below the point of discharge of the major development. No analysis is required if the stormwater is discharged directly into any ocean, bay, inlet, or the reach of any watercourse between its confluence with an ocean, bay, or inlet and downstream of the first water control structure.

3. The stormwater runoff quantity standards shall be applied at the site's boundary to each abutting lot, roadway, watercourse, or receiving storm sewer system.

4. There shall be no direct discharge of stormwater runoff from any point or nonpoint source to any wetland, wetlands transition area, or surface waterbody. In addition, stormwater runoff shall not be directed in such a way as to increase the volume and rate of discharge into any wetlands, wetlands transition area, or surface water body from that which existed prior to development of the parcel.
  5. To the maximum extent practical, there shall be no direct discharge of stormwater runoff onto farm fields to protect farm crops from damage due to flooding, erosion, and long-term saturation of cultivated crops and cropland.
- r. As-built requirements for major development are as follows:
1. After all construction activities have been completed on the parcel and finished grade has been established in each stormwater management measure designed to infiltrate stormwater, replicate post-development permeability tests shall be conducted to determine if as-built soil permeability rates are consistent with design permeability rates. The results of such tests shall be submitted to the municipal engineer or other appropriate reviewing engineer. If the results of the post-development permeability tests fail to achieve the minimum required design permeability rate, utilizing a factor of safety of two, the stormwater management measure shall be renovated and re-tested until the required permeability rates are achieved; and
  2. After all construction activities and required testing have been completed on the parcel, as-built plans, including as-built elevations of all stormwater management measures shall be submitted to the municipal engineer or other appropriate reviewing engineer to serve as a document of record. Based upon that engineer's review of the as-built plans, all corrections or remedial actions deemed necessary due to the failure to comply with design standards and/or for any reason concerning public health or safety, shall be completed by the applicant. In lieu of review by the municipal engineer, the municipality may engage a licensed professional engineer to review the as-built plans and charge the applicant for all costs associated with such review.

#### **§25-16A.4. Calculation of Stormwater Runoff and Groundwater Recharge**

- a. Stormwater runoff shall be calculated by the design engineer using the USDA Natural Resources Conservation Service (NRCS) methodology, including the NRCS Runoff Equation and Dimensionless Unit Hydrograph, as described in Chapters 7, 9, 10, 15 and 16 Part 630, Hydrology National Engineering Handbook, incorporated herein by reference as amended and supplemented, except that the Rational Method for peak flow and the Modified Rational Method for hydrograph computations shall not be used. This methodology is additionally described in Technical Release 55 - Urban Hydrology for Small Watersheds (TR-55), dated June 1986, incorporated herein by reference as amended and supplemented. Information regarding the methodology is available from the Natural Resources Conservation Service website at:



[https://www.nres.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb1044171.pdf](https://www.nres.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044171.pdf)  
<https://directives.sc.egov.usda.gov/viewerFS.aspx?hid=21422> or at United States Department of Agriculture Natural Resources Conservation Service, 220 Davison Avenue, Somerset, New Jersey 08873.

- b. In calculating stormwater runoff using the NRCS methodology, the appropriate 24-hour rainfall depths as developed for the parcel by the National Oceanic and Atmospheric Administration, [https://hdsc.nws.noaa.gov/hdsc/pfds/pfds\\_map\\_cont.html?bkmrk=nj](https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=nj), shall be utilized.
- c. ~~For the purpose of calculating runoff coefficients~~ curve numbers and groundwater recharge, there is a presumption that the pre-construction condition of a site or portion thereof is a wooded land use with good hydrologic condition. The term “curve number” applies to the NRCS methodology at a. above. A runoff coefficient curve number or a groundwater recharge land cover for an existing condition may be used on all or a portion of the site if the design engineer verifies that the hydrologic condition has existed on the site or portion of the site for at least five years without interruption prior to the time of application. If more than one land cover has existed on the site during the five years immediately prior to the time of application, the land cover with the lowest runoff potential shall be used for the computations. In addition, there is the presumption that the site is in good hydrologic condition (if the land use type is pasture, lawn, or park), with good cover (if the land use type is woods), or with good hydrologic condition and conservation treatment (if the land use type is cultivation).
- d. In computing pre-construction stormwater runoff, the design engineer shall account for all significant land features and structures, such as ponds, wetlands, depressions, hedgerows, or culverts, that may reduce pre-construction stormwater runoff rates and volumes.
- e. In computing stormwater runoff from all design storms, the design engineer shall consider the relative stormwater runoff rates and/or volumes of pervious and impervious surfaces separately to accurately compute the rates and volume of stormwater runoff from the site. To calculate runoff from unconnected impervious cover, urban impervious area modifications as described in the NRCS Technical Release 55 – Urban Hydrology for Small Watersheds or other methods may be employed.
- f. If the invert of the outlet structure of a stormwater management measure is below the flood hazard design flood elevation as defined at N.J.A.C. 7:13, the design engineer shall take into account the effects of tailwater in the design of structural stormwater management measures.
- g. Groundwater recharge may be calculated in accordance with the New Jersey Geological Survey Report GSR-32, A Method for Evaluating Groundwater-Recharge Areas in New Jersey, incorporated herein by reference as amended and supplemented. Information regarding the methodology is available from the New Jersey Stormwater

Best Management Practices Manual; at the New Jersey Geological Survey website at: <https://www.nj.gov/dep/njgs/pricelst/gsreport/gsr32.pdf> or at New Jersey Geological and Water Survey, 29 Arctic Parkway, PO Box 420 Mail Code 29-01, Trenton, New Jersey 08625-0420.

**h.** The precipitation depths of the current two-, 10-, and 100-year storm events shall be determined by multiplying the values determined in accordance with items **1** and **2** below:

**1.** The applicant shall utilize the National Oceanographic and Atmospheric Administration (NOAA), National Weather Service's Atlas 14 Point Precipitation Frequency Estimates: NJ, in accordance with the location(s) of the drainage area(s) of the site. This data is available at: [https://hdsc.nws.noaa.gov/hdsc/pfds/pfds\\_map\\_cont.html?bkmrk=nj](https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=nj); and

**2.** The applicant shall utilize **Table 5: Current Precipitation Adjustment Factors** below, which sets forth the applicable multiplier for the drainage area(s) of the site, in accordance with the county or counties where the drainage area(s) of the site is located. Where the major development lies in more than one county, the precipitation values shall be adjusted according to the percentage of the drainage area in each county. Alternately, separate rainfall totals can be developed for each county using the values in the table below.

**Table 5: Current Precipitation Adjustment Factors**

| County | Current Precipitation Adjustment Factors |                      |                       |
|--------|--|----------------------|-----------------------|
|        | 2-year Design Storm                      | 10-year Design Storm | 100-year Design Storm |
| Ocean  | 1.00                                     | 1.01                 | 1.03                  |

**i.** **Table 6: Future Precipitation Change Factors** provided below sets forth the change factors to be used in determining the projected two-, 10-, and 100-year storm events for use in this chapter, which are organized alphabetically by county. The precipitation depth of the projected two-, 10-, and 100-year storm events of a site shall be determined by multiplying the precipitation depth of the two-, 10-, and 100-year storm events determined from the National Weather Service's Atlas 14 Point Precipitation Frequency Estimates pursuant to **h.1.** above, by the change factor in the table below, in accordance with the county or counties where the drainage area(s) of the site is located. Where the major development and/or its drainage area lies in more than one county, the precipitation values shall be adjusted according to the percentage of the drainage area in each county. Alternately, separate rainfall totals can be developed for each county using the values in the table below.

**Table 6: Future Precipitation Change Factors**

|  | Future Precipitation Change Factors |
|--|-------------------------------------|
|  |                                     |

| <b>County</b> | <b>2-year Design Storm</b> | <b>10-year Design Storm</b> | <b>100-year Design Storm</b> |
|---------------|----------------------------|-----------------------------|------------------------------|
| <b>Ocean</b>  | <b>1.18</b>                | <b>1.19</b>                 | <b>1.24</b>                  |
|               |                            |                             |                              |

#### §25-16A.5. Sources for Technical Guidance

**a.** Technical guidance for stormwater management measures can be found in the documents listed below, which are available to download from the NJDEP's website at: [http://www.nj.gov/dep/stormwater/bmp\\_manual2.htm](http://www.nj.gov/dep/stormwater/bmp_manual2.htm)  
<https://dep.nj.gov/stormwater/bmp-manual/>.

1. Guidelines for stormwater management measures are contained in the New Jersey Stormwater BMP Manual, as amended and supplemented. Information is provided on stormwater management measures such as, but not limited to, those listed in **Tables 1, 2, and 3** of §25-16A.3e. The New Jersey Stormwater BMP Manual may be utilized as a guide in determining the extent to which stormwater management activities and measures meet the standards of this Section.

2. Additional maintenance guidance is available on the NJDEP's website at: [https://www.njstormwater.org/maintenance\\_guidance.htm](https://www.njstormwater.org/maintenance_guidance.htm)  
<https://dep.nj.gov/stormwater/maintenance-guidance/>.

**b.**

1. Submissions required for review by the NJDEP should be mailed to:

The Division of ~~Water Quality~~ Watershed Protection and Restoration, New Jersey Department of Environmental Protection, Mail Code 401-02B501-02A, PO Box 420, Trenton, New Jersey 08625-0420.

2. Submissions required for review by the Pinelands Commission should be emailed to [appinfo@pinelands.nj.gov](mailto:appinfo@pinelands.nj.gov).

#### §25-16A.6. Solids and Floatable Materials Control Standards

**a.** Site design features identified under §25-16A.3e, or alternative designs in accordance with §25-16A.3f, to prevent discharge of trash and debris from drainage systems shall comply with the following standard to control passage of solid and floatable materials through storm drain inlets. For purposes of this paragraph, "solid and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids. For exemptions to this standard see **2.** below.

1. Design engineers shall use one of the following grates whenever they use a grate in pavement or another ground surface to collect stormwater from that surface into a storm drain or surface water body under that grate:

- (a) The New Jersey Department of Transportation (NJDOT) bicycle safe grate, which is described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines; or
- (b) A different grate, if each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is no greater than 0.5 inches across the smallest dimension.

Examples of grates subject to this standard include grates in grate inlets, the grate portion (non-curb-opening portion) of combination inlets, grates on storm sewer manholes, ditch grates, trench grates, and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater system floors used to collect stormwater from the surface into a storm drain or surface water body.

- (c) For curb-opening inlets, including curb-opening inlets in combination inlets, the clear space in that curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches, or be no greater than two (2.0) inches across the smallest dimension.

2. The standard in 1. above does not apply:

- (a) Where each individual clear space in the curb opening in existing curb-opening inlet does not have an area of more than nine (9.0) square inches;
- (b) Where the municipality agrees that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;
- (c) Where flows from the water quality design storm established at **§25-16A.3p4** are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:
  - (1) A rectangular space four and five-eighths (4.625) inches long and one and one-half (1.5) inches wide (this option does not apply for outfall netting facilities); or
  - (2) A bar screen having a bar spacing of 0.5 inches.

Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle

safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

- (d) Where flows are conveyed through a trash rack that has parallel bars with one-inch (1 inch) spacing between the bars, to the elevation of the Water Quality Design Storm established at **§25-16A.3p4**; or
- (e) Where the NJDEP determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet this standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

#### **§25-16A.7. Safety Standards for Stormwater Management Basins**

- a. This section sets forth requirements to protect public safety through the proper design and operation of stormwater management BMPs. This section applies to any new stormwater management BMP.
- b. The provisions of this section are not intended to preempt more stringent municipal or county safety requirements for new or existing stormwater management BMPs. Municipal and county stormwater management plans and ordinances may, pursuant to their authority, require existing stormwater management BMPs to be retrofitted to meet one or more of the safety standards in **c1, 2, or 3** below for trash racks, overflow grates, and escape provisions at outlet structures.
- c. Requirements for Trash Racks, Overflow Grates and Escape Provisions
  - 1. A trash rack is a device designed to catch trash and debris and prevent the clogging of outlet structures. Trash racks shall be installed at the intake to the outlet from the Stormwater management BMP to ensure proper functioning of the BMP outlets in accordance with the following:
    - (a) The trash rack shall have parallel bars, with no greater than six-inch spacing between the bars;
    - (b) The trash rack shall be designed so as not to adversely affect the hydraulic performance of the outlet pipe or structure;
    - (c) The average velocity of flow through a clean trash rack is not to exceed 2.5 feet per second under the full range of stage and discharge. Velocity is to be computed on the basis of the net area of opening through the rack; and
    - (d) The trash rack shall be constructed of rigid, durable, and corrosion resistant material and designed to withstand a perpendicular live loading of 300 pounds per square foot.

2. An overflow grate is designed to prevent obstruction of the overflow structure. If an outlet structure has an overflow grate, the grate shall comply with the following requirements:

- (a) The overflow grate shall be secured to the outlet structure but removable for emergencies and maintenance.
- (b) The overflow grate spacing shall be no greater than two inches across the smallest dimension
- (c) The overflow grate shall be constructed of rigid, durable, and corrosion resistant material, and shall be designed to withstand a perpendicular live loading of 300 pounds per square foot.

3. Stormwater management BMPs shall include escape provisions as follows:

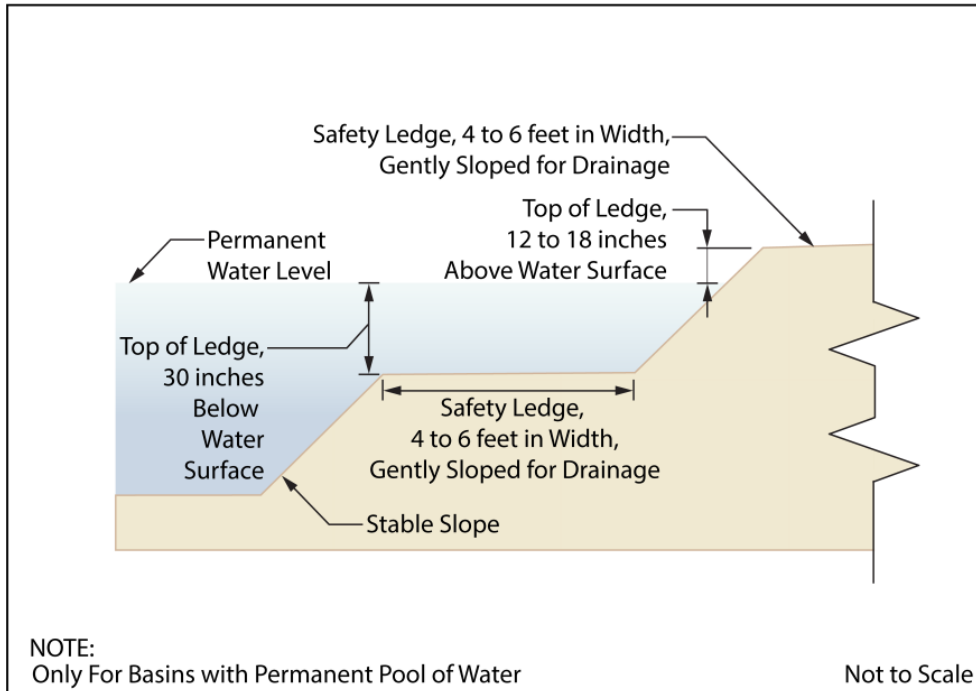
- (a) If a stormwater management BMP has an outlet structure, escape provisions shall be incorporated in or on the structure. Escape provisions include the installation of permanent ladders, steps, rungs, or other features that provide easily accessible means of egress from stormwater management BMPs. With the prior approval of the municipality pursuant to **d.** below, a free-standing outlet structure may be exempted from this requirement;
- (b) Safety ledges shall be constructed on the slopes of all new stormwater management BMPs having a permanent pool of water deeper than two and one-half feet. Safety ledges shall be comprised of two steps. Each step shall be four to six feet in width. One step shall be located approximately two and one-half feet below the permanent water surface, and the second step shall be located one to one and one-half feet above the permanent water surface. See **e.** below for an illustration of safety ledges in a stormwater management BMP; and
- (c) In new stormwater management BMPs, the maximum interior slope for an earthen dam, embankment, or berm shall not be steeper than three horizontal to one vertical.

**d. Variance or Exemption from Safety Standard**

A variance or exemption from the safety standards for stormwater management BMPs may be granted only upon a written finding by the municipality that the variance or exemption will not constitute a threat to public safety.

**e. Safety Ledge Illustration**

**Figure 1. Elevation View – Basin Safety Ledge Configuration**



### §25-16A.8. Requirements for a Site Development Stormwater Plan

#### a. Submission of Site Development Stormwater Plan.

1. Any application for major development approval shall include a Site Development Stormwater Plan containing all information required in **§25-16A.8c.**
2. Any application for minor development approval that is subject to this Section shall include a Site Development Stormwater Plan containing all information required in **§25-16A.8d.**
3. The Site Development Stormwater Plan shall demonstrate that the proposed development meets the standards of this Section.
4. The Site Development Stormwater Plan shall contain comprehensive hydrologic and hydraulic design calculations for the pre-development and post-development conditions for the design storms specified in **§25-16A.3p4.** The standards for groundwater recharge and stormwater runoff rate, volume and quality required by **§25-16A.3o, p, and q** and shall be met using the methods, calculations and assumptions provided in **§25-16A.4.**
5. The application submission requirements of **1.** and **2.** above shall be in addition to all other applicable application submission requirements of the municipality's land development regulations.

- 6.** The applicant shall submit three (3) copies of the Site Development Stormwater Plan. All required engineering plans shall be in CAD Format 15 or higher, registered and rectified to NAD 1983 State Plane New Jersey FIPS 2900 US Feet or Shape Format NAD 1983 State Plane New Jersey FIPS 2900 US Feet. All other required documents shall be submitted in both paper and commonly used electronic file formats such as .pdf, word processing, database or spreadsheet files.

**b.** Site Development Stormwater Plan Approval.

The Site Development Stormwater Plan shall be reviewed as a part of the development review process by the municipal board or official from whom municipal approval is sought. That municipal board or official shall consult the engineer retained by the Planning and/or Zoning Board (as appropriate) to determine if all the checklist requirements have been satisfied and to determine if the project meets the standards set forth in this Section.

**c.** Checklist Requirements for major development.

Any application for major development approval shall include a Site Development Stormwater Plan containing, at minimum, the following information.

**1.** Topographic Base Map.

The Site Development Stormwater Plan shall contain a topographic base map of the site that extends a minimum of three hundred (300) feet beyond the limits of the proposed development, at a scale of one (1) inch = two hundred (200) feet or greater, showing one (1) foot contour intervals. The map shall indicate the following: existing surface water drainage, shorelines, steep slopes, soils, highly erodible soils, perennial or intermittent streams that drain into or upstream of any Category One or Pinelands Waters, wetlands and floodplains along with any required wetlands transition areas, marshlands and other wetlands, pervious or vegetative surfaces, existing surface and subsurface human-made structures, roads, bearing and distances of property lines, and significant natural and manmade features not otherwise shown. Lakehurst Borough or the Pinelands Commission may require upstream tributary drainage system information as necessary.

**2.** Environmental Site Analysis.

The Site Development Stormwater Plan shall contain a written description along with the drawings of the natural and human-made features of the site and its environs. This description shall include:

- (a)** A discussion of environmentally critical areas, soil conditions, slopes, wetlands, waterways and vegetation on the site. Particular attention shall be



given to unique, unusual or environmentally sensitive features and to those features that provide particular opportunities for or constraints on development; and

(b) Detailed soil and other environmental conditions on the portion of the site proposed for installation of any stormwater management measures, including, at a minimum:

- (1) A soils report based on onsite soil tests;
- (2) Location and spot elevations in plan view of all test pits and permeability tests;
- (3) Permeability test data and calculations;
- (4) Any other required soil or hydrogeologic data (e.g., mounding analyses results) correlated with location and elevation of each test site;
- (5) A cross-section of all proposed stormwater management measures with side-by-side depiction of soil profile drawn to scale and seasonal high water table elevation identified; and
- (6) Any other information necessary to demonstrate the suitability of the specific proposed stormwater management measures relative to the environmental conditions on the portion(s) of the site proposed for implementation of those measures.

**3. Project description and site plan(s).**

The Site Development Stormwater Plan shall contain a map (or maps), at the same scale as the topographical base map, indicating the location of existing and proposed buildings, roads, parking areas, utilities, structural facilities for stormwater management and sediment control, and other permanent structures. The map(s) shall also clearly show areas where alterations will occur in the natural terrain and cover, including lawns and other landscaping, and seasonal high groundwater elevations. A written description of the site plan and justification for proposed changes in natural conditions shall also be provided.

**4. Land Use Planning and Source Control Plan.**

The Site Development Stormwater Plan shall contain a Land Use Planning and Source Control Plan demonstrating compliance with the erosion control, groundwater recharge, stormwater runoff quantity control and stormwater quality treatment required by this Section. This shall include, but is not limited to:

- (a) Information demonstrating that the proposed stormwater management measures are able to achieve a minimum 65 percent reduction of the post-construction total nitrogen load, in accordance with **§25-16A.3p7**.
- (b) Where any stormwater generated from high pollutant loading areas or where stormwater will be exposed to source material, information demonstrating that the proposed stormwater management measures are consistent with **§25-16A.3p8**.

**5. Stormwater Management Facilities Map.**

The Site Development Stormwater Plan shall contain a Stormwater Management Facilities Map, at the same scale as the topographic base map, depicting the following information:

- (a) The total area to be disturbed, paved and/or built upon, proposed surface contours, land area to be occupied by the stormwater management facilities and the type of vegetation thereon, and details of the proposed plan to manage and recharge stormwater; and
- (b) Details of all stormwater management facility designs, during and after construction, including discharge provisions, discharge capacity for each outlet at different levels of detention (if applicable) and emergency spillway provisions with maximum discharge capacity of each spillway.

**6. Groundwater Mounding Analysis.**

The Site Development Stormwater Plan shall contain a groundwater mounding analysis in accordance with **§25-16A.3g1**.

**7. Inspection, Maintenance and Repair Plan.**

The Site Development Stormwater Plan shall contain an Inspection, Maintenance and Repair Plan containing information meeting the requirements of **§25-16A.9b** of this Section.

**d. Checklist Requirements for minor development.**

Any application for minor development approval that is subject to this Section shall include a Site Development Stormwater Plan, certified by a design engineer, containing, at minimum, the following information:

1. All existing and proposed development, including limits of clearing and land disturbance.
2. All existing and proposed lot lines.

3. All wetlands and required wetland transition areas.
  4. The type and location of each green infrastructure stormwater management measure.
  5. A cross sectional drawing of each stormwater management measure showing the associated:
    - (a) soil profile;
    - (b) soil permeability test elevation;
    - (c) soil permeability rate; and
    - (d) the elevation of, and vertical separation to, the seasonal high water table.
  6. A design engineer's certification that each green infrastructure stormwater management measure will not adversely impact basements or septic systems of the proposed development, in accordance with **§25-16A.3g2**.
  7. A Maintenance Plan containing information meeting the requirements of **§25-16A.9b** of this Section.
- e. Exception from submission requirements.

With the exception of **c7** and **d7** above, the municipality may modify or waive any required element of the Site Development Stormwater Plan, provided that sufficient information can be provided to demonstrate compliance with the standards of this Section. However, application information required in accordance with the Pinelands CMP (N.J.A.C. 7:50-4.2(b)) shall be submitted to the Pinelands Commission, unless the Executive Director of the Pinelands Commission waives or modifies the application requirements.

#### **§25-16A.9. Maintenance and Repair**

- a. All development regulated under this Section shall incorporate a maintenance plan, prepared by the design engineer, consistent with **b.** below. Maintenance and repair shall be implemented in accordance with maintenance plan and **c.** below.
- b. The maintenance plan shall include the following:
  1. Specific preventative maintenance tasks and schedules; cost estimates, including estimated cost of sediment, debris, or trash removal; and the name, address, and telephone number of the person or persons responsible for preventative and corrective maintenance (including replacement). The plan shall contain

information on BMP location, design, ownership, maintenance tasks and frequencies, and other details as specified in Chapter 8 of the NJ BMP Manual, as well as the tasks specific to the type of BMP, as described in the applicable chapter containing design specifics.

2. Responsibility for maintenance of stormwater management measures approved as part of an application for major development shall not be assigned or transferred to the owner or tenant of an individual property, unless such owner or tenant owns or leases the entire site subject to the major development approval. The individual property owner may be assigned incidental tasks, such as weeding of a green infrastructure BMP, provided the individual agrees to assume these tasks; however, the individual cannot be legally responsible for all the maintenance required.
3. Responsibility for maintenance of stormwater management measures approved as part of an application for minor development may be assigned or transferred to the owner or tenant of the parcel.
4. If the maintenance plan identifies a person other than the property owner (for example, a developer, a public agency or homeowners' association) as having the responsibility for maintenance, the plan shall include documentation of such person's or entity's agreement to assume this responsibility, or of the owner's obligation to dedicate a stormwater management facility to such person under an applicable ordinance or regulation.
5. If the person responsible for maintenance identified under **1.** above is not a public agency, the maintenance plan and any future revisions based on **§25-16A.9c2(b)** shall be recorded upon the deed of record for each property on which the maintenance described in the maintenance plan must be undertaken.
6. For all major development, the following additional standards apply:
  - (a) The maintenance plan shall include accurate and comprehensive drawings of all stormwater management measures on a parcel, including the specific latitude and longitude and block/lot number of each stormwater management measure. Maintenance plans shall specify that an inspection, maintenance, and repair report will be updated and submitted annually to the municipality;
  - (b) Stormwater management measure easements shall be provided by the property owner as necessary for facility inspections and maintenance and preservation of stormwater runoff conveyance, infiltration, and detention areas and facilities. The purpose of the easement shall be specified in the maintenance agreement; and
  - (c) An adequate means of ensuring permanent financing of the inspection, maintenance, repair, and replacement plan shall be implemented and shall be

detailed in the maintenance plan. Financing methods shall include, but not be limited to:

- (1) The assumption of the inspection and maintenance program by a municipality, county, public utility, or homeowners association;
- (2) The required payment of fees to a municipal stormwater fund in an amount equivalent to the cost of both ongoing maintenance activities and necessary structural replacements.

7. For all minor development, maintenance plans shall be required for all stormwater management measures installed in accordance with this Section and shall include, at a minimum, the following information:

- (a) A copy of the certified plan required pursuant to **§25-16A.8d**;
- (b) A description of the required maintenance activities for each stormwater management measure; and
- (c) The frequency of each required maintenance activity.

c. General Maintenance and Repair

1. Preventative and corrective maintenance shall be performed to maintain the function of the stormwater management measure, including, but not limited to, repairs or replacement to the structure; removal of sediment, debris, or trash; restoration of eroded areas; snow and ice removal; fence repair or replacement; restoration of vegetation; and repair or replacement of non-vegetated linings.
2. The person responsible for maintenance identified under **§25-16A.9b2** shall perform all of the following requirements:
  - (a) maintain a detailed log of all preventative and corrective maintenance for the structural stormwater management measures incorporated into the design of the development, including a record of all inspections and copies of all maintenance-related work orders;
  - (b) evaluate the effectiveness of the maintenance plan at least once per year and adjust the plan and the deed as needed; and
  - (c) retain and make available, upon request by any public entity with administrative, health, environmental, or safety authority over the site, the maintenance plan and the documentation required by (a) and (b) above.
3. The requirements of **b2, 3, and 4** above do not apply to stormwater management facilities that are dedicated to and accepted by the municipality or another

governmental agency, subject to all applicable municipal stormwater general permit conditions, as issued by the Department.

4. In the event that the stormwater management facility becomes a danger to public safety or public health, or if it is in need of maintenance or repair, the municipality shall so notify the responsible person in writing. Upon receipt of that notice, the responsible person shall have fourteen (14) days to effect maintenance and repair of the facility in a manner that is approved by the municipal engineer or his designee. The municipality, in its discretion, may extend the time allowed for effecting maintenance and repair for good cause. If the responsible person fails or refuses to perform such maintenance and repair, the municipality or County may immediately proceed to do so and shall bill the cost thereof to the responsible person. Nonpayment of such bill may result in a lien on the property.
- d. Nothing in this section shall preclude the municipality in which the major development is located from requiring the posting of a performance or maintenance guarantee in accordance with N.J.S.A. 40:55D-53.

#### **§25-16A.10. Variances**

- a. The exemptions, exceptions, applicability standards, and waivers of strict compliance contained in the NJDEP Stormwater Management Regulations at N.J.A.C. 7:8-1.1 et seq. shall not apply within the Pinelands Area except in accordance with this Section.
- b. The municipal review agency may grant a variance from the design and performance standards for stormwater management measures set forth in its municipal stormwater management plan and this Section, provided that:
  1. No variances shall be granted from **§25-16A.3q4**, which prohibits the direct discharge of stormwater runoff to any wetlands, wetlands transition area, or surface waterbody and the direction of stormwater runoff in such a way as to increase in volume and rate of discharge into any wetlands, wetlands transition area, or surface water body from that which existed prior to development of the parcel;
  2. The municipal stormwater plan includes a mitigation plan in accordance with N.J.A.C. 7:8-4.2(c)11 and N.J.A.C. 7:50-3.39(a)2viii;
  3. The applicant demonstrates that it is technically impracticable to meet any one or more of the design and performance standards on-site. For the purposes of this analysis, technical impracticability exists only when the design and performance standard cannot be met for engineering, environmental, or safety reasons. A municipality's approval of a variance shall apply to an individual drainage area and design and performance standard and shall not apply to an entire site or project, unless an applicant provides the required analysis for each drainage area within the site and each design and performance standard;

4. The applicant demonstrates that the proposed design achieves the maximum possible compliance with the design and performance standards of this Section on-site; and
5. A mitigation project is implemented, in accordance with the following:
  - (a) All mitigation projects shall be located in the Pinelands Area and in the same HUC-14 as the parcel proposed for development. If the applicant demonstrates that no such mitigation project is available, the municipality may approve a variance that provides for mitigation within the same HUC-11 as the parcel proposed for development, provided the mitigation project is located in the Pinelands Area.
  - (b) The proposed mitigation project shall be consistent with the municipal stormwater management plan certified by the Pinelands Commission. If said stormwater management plan does not identify appropriate parcels or projects where mitigation may occur, the applicant may propose a mitigation project that meets the criteria in (a) above.
  - (c) The mitigation project shall be approved no later than preliminary or final site plan approval of the major development.
  - (d) The mitigation project shall be constructed prior to, or concurrently with, the development receiving the variance.
  - (e) The mitigation project shall comply with the green infrastructure standards at **§25-16A.3n**.
  - (f) If the variance that resulted in the mitigation project being required is from the green infrastructure standards at **§25-16A.3n**, then the mitigation project must use green infrastructure BMPs in **Table 1** contained at **§25-16A.3e**, and/or an alternative stormwater management measure approved in accordance with **§25-16A.3f** that meets the definition of green infrastructure to manage an equivalent or greater area of impervious surface and an equivalent or greater area of motor vehicle surface as the area of the major development subject to the variance. Grass swales and vegetative filter strips may only be used in the mitigation project if the proposed project additionally includes a green infrastructure BMP other than a grass swale or vegetative filter strip. The green infrastructure used in the mitigation project must be sized to manage the water quality design storm established at **§25-16A.3p4**, at a minimum, and is subject to the applicable contributory drainage area limitation specified at **§25-16A.3n2**, as applicable.

- (g) A variance from the groundwater recharge standards at **§25-16A.3o** may be granted provided that the total volume of stormwater infiltrated by the mitigation project equals or exceeds the volume required at **§25-16A.3o**.
  - (h) A variance from the stormwater runoff quality standards at **§25-16A.3p** may be granted if the following are met:
    - (1) The total drainage area of motor vehicle surface managed by the mitigation project(s) must equal or exceed the drainage area of the area of the major development subject to the variance and must provide sufficient TSS removal to equal or exceed the deficit resulting from granting the variance for the major development; and
    - (2) The mitigation project must remove nutrients to the maximum extent feasible in accordance with **§25-16A.3p7**.
  - (i) A variance from the stormwater runoff quantity standards at **§25-16A.3q** may be granted if the following are met:
    - (1) The applicant demonstrates, through hydrologic and hydraulic analysis, including the effects of the mitigation project, that the variance will not result in increased flooding damage below each point of discharge of the major development;
    - (2) The mitigation project indirectly discharges to the same watercourse and is located upstream of the major development subject to the variance; and
    - (3) The mitigation project provides peak flow rate attenuation in accordance with **§25-16A.3q2(c)** for an equivalent or greater area than the area of the major development subject to the variance. For the purposes of this demonstration, equivalent includes both size of the area and percentage of impervious surface and/or motor vehicle surface.
  - (j) The applicant or the entity assuming maintenance responsibility for the associated major development shall be responsible for preventive and corrective maintenance (including replacement) of the mitigation project and shall be identified as such in the maintenance plan established in accordance with **§25-16A.9**. This responsibility is not transferable to any entity other than a public agency, in which case a written agreement with that public agency must be submitted to the review agency.
- c. Any approved variance shall be submitted by the municipal review agency to the county review agency and the NJDEP, by way of a written report describing the variance, as well as the required mitigation, within 30 days of the approval.

#### **§25-16A.11. Penalties**



1. Any person(s) who erects, constructs, alters, repairs, converts, maintains, or uses any building, structure or land in violation of this Section shall be subject to the following penalties:
  - a. A fine not less than \$500 and not to exceed \$2,000;
  - b. Imprisonment up to 90 days in the county jail;
  - c. Or both.

For purposes of this section, each twenty-four-hour period shall be a separate and distinct offense.

**SECTION 2:** Chapter 25, Land Development, Section 25-3.3, Pinelands Comprehensive Management Plan, is hereby amended as follows:

The following terms utilized in this chapter are used as defined in the New Jersey Pinelands Comprehensive Management Plan, adopted by the New Jersey Pinelands Commission pursuant to Section 7 of the Pinelands Protection Act (N.J.S. 13:18A-1 to 29) as amended: agricultural commercial establishment; animals, threatened or endangered; application for development; building; camper; campsite; certificate of appropriateness; certificate of filing; commission; comprehensive management plan; construction; contiguous land; divert or diversion; drainage; dwelling; dwelling unit; electric distribution lines; electric transmission lines; enlargement; family; fire hazard; fish and wildlife management; forestry; habitat; historic resource; hydrologic unit code-11 or HUC-11; hydrophytes; immediate family; impermeable surface; interested person or party; interim rules and regulations; land; landscaping; local community facility; mobile home; nonconsumptive use; parcel; person; Pinelands Area; Pinelands Development Review Board; Pinelands Protection Act; plants, threatened or endangered; record tree; recreational facility, intensive; recreational facility, low intensive; scenic corridor; sign; solar energy facility; facility; submerged lands; seasonal high water table; vegetation; wetlands; and wetland soils.

**SECTION 3:** Chapter 25, Land Development, Section 25-27, Design and Performance Standards, Subsection 25-27.48, Water Quality, is hereby amended by repealing and replacing subsection g. as follows:

**g. Water Management**

1. Water shall not be exported from the Pinelands except as otherwise provided at N.J.S.A. 58:1A-7.1.
2. A diversion within the Pinelands Area portion of Lakehurst Borough that involves the interbasin transfer of water from sources within the Pinelands Area between

the Atlantic Basin and the Delaware Basin, as defined at (a) and (b) below, or outside of either basin, shall be prohibited.

(a) The Atlantic Basin is comprised of Watershed Management Areas 13, 14, 15, and 16, as identified by the New Jersey Department of Environmental Protection.

(b) The Delaware Basin is comprised of Watershed Management Areas 17, 18, 19, and 20 as identified by the New Jersey Department of Environmental Protection.

3. A diversion within the Pinelands Area portion of Lakehurst Borough involving the intrabasin transfer of water between HUC-11 watersheds in the same basin, Atlantic Basin or Delaware Basin as defined at 2(a) and (b) above, shall be permitted. If such an intrabasin transfer involves water sourced from the Kirkwood-Cohansey aquifer, the diversion shall meet the criteria and standards set forth at 4. below.

4. Within the Pinelands Area portion of Lakehurst Borough a new diversion or an increase in allocation from either a single existing diversion source or from combined existing and new diversion sources in the same HUC-11 watershed and in the Kirkwood-Cohansey aquifer, that results in a total diversion of 50,000 gallons of water per day or more (hereafter referred to as "proposed diversion") shall meet the criteria and standards set forth at 4(c) through (f) below and the water management standards of the Pinelands Comprehensive Management Plan at N.J.A.C. 7:50-6.86(d). "Allocation" shall mean a diversion permitted pursuant to a Water Allocation Permit or Water Use Registration Number issued by the New Jersey Department of Environmental Protection pursuant to N.J.A.C. 7:19.

(a) When evaluating whether the proposed diversion meets the criteria set forth at 4(c) through (f) below, all of the applicant's allocations in an HUC-11 watershed, in addition to the proposed diversion, shall be included in the evaluation.

(b) The standards set forth at 4(c) through (f) below shall not apply to:

(1) A new well that is to replace an existing well, provided the existing well is decommissioned in accordance with N.J.A.C. 7:9D-3 and the new replacement well will:

[1] Be approximately the same depth as the existing well;

[2] Divert from the same aquifer as the existing well;

[3] Have the same or lesser pump capacity as the existing well; and

[4] Be located within 100 feet of, and in the same HUC-11 watershed as, the existing well;

(2) Any proposed diversion that is exclusively for agricultural or horticultural use; or

(3) Any proposed diversion for a resource extraction operation that constitutes a nonconsumptive use, provided the water returned to the source is not discharged to a stream or waterbody or otherwise results in offsite flow, and the diversion and return are located on the same parcel.

(c) A proposed diversion shall be permitted only in the following Pinelands Management Areas: Pinelands Town.

(d) A proposed diversion shall only be permitted if the applicant demonstrates that no alternative water supply source is available or viable. Alternative water supply sources include, but are not limited to, groundwater and surface water sources that are not part of the Kirkwood-Cohansey aquifer, and public water purveyors and suppliers, as defined at N.J.A.C. 7:19-1.3. A list of alternative water supply sources is available at the offices of the Pinelands Commission and at <https://www.nj.gov/pinelands/>.

(e) A proposed diversion shall not have an adverse ecological impact on the Kirkwood-Cohansey aquifer. Adverse ecological impact means an adverse regional impact and/or an adverse local impact, as described at N.J.A.C. 7:50-6.86(d)6 and 7, respectively. A proposed diversion deemed to have an adverse local impact in the Pinelands Area is prohibited. A proposed diversion deemed to have an adverse regional impact shall only be permitted if an applicant permanently offsets the diversion in accordance with N.J.A.C. 7:50-6.86(d)6i.

(f) An applicant for a proposed diversion shall provide written documentation of water conservation measures that have been implemented, or that are planned for implementation, for all areas to be served by the proposed diversion. Water conservation measures are measurable efforts by public and private water system operators and local agencies to reduce water demand by users and reduce losses in the water distribution system.

**SECTION 4:** These Ordinances shall take effect after second reading and publication as required by law a

**SECTION 5:** All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

**SECTION 6:** If any section, subsection, sentence, clause, phrase or portion of this ordinance is for any reason held to be invalid or unconstitutional by a court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent provision, and such holding shall not affect the validity of the remaining portions hereof.

---

Hon. Harry Robbins  
Mayor

**NOTICE IS HEREBY GIVEN** that the foregoing ordinance was introduced and passed on first reading at the regular meeting of the governing body of the Borough of Lakehurst, County of Ocean, and State of New Jersey, held on the twentieth day of June 2024 and that said ordinance will be considered for final passage at the meeting of said governing body to be held at the Community Center, 207 Center Street, Lakehurst, New Jersey on the fifteenth day of August 2024 at 7:30 p.m. or as soon thereafter as said matter may be reached, at which time and place any person desiring to be heard shall be given an opportunity to be so heard.

---

Maryanne Capasso, RMC  
Municipal Clerk

**ORDINANCE #2024-06**

**“AN ORDINANCE AMENDING IN ITS ENTIRETY CHAPTER 25-16 STORMWATER CONTROL, OF THE CODE OF THE BOROUGH OF LAKEHURST, COUNTY OF OCEAN AND STATE OF NEW JERSEY ENTITLED LAND DEVELOPMENT”**

**WHEREAS**, the New Jersey Department of Environmental Protection adopted amendments to certain stormwater management regulations contained at N.J.A.C. 7:8, effective July 17, 2023.

**NOW, THEREFORE, BE IT ORDAINED** by the Borough Council of the Borough of Lakehurst, County of Ocean and State of New Jersey, as follows:

**SECTION 1:** Chapter 25, Land Development, Section 25-16, Stormwater Control is hereby amended as follows:

**25-16 STORMWATER CONTROL**

**25-16.1 Scope and Purpose.**

A. Policy Statement.

1. Flood control, groundwater recharge, and pollutant reduction shall be achieved through the use of stormwater management measures, including green infrastructure Best Management Practices (GI BMPs) and nonstructural stormwater management strategies. GI BMPs and low impact development (LID) should be utilized to meet the goal of maintaining natural hydrology to reduce stormwater runoff volume, reduce erosion, encourage infiltration and groundwater recharge, and reduce pollution. GI BMPs and LID should be developed based upon physical site conditions and the origin, nature and the anticipated quantity, or amount, of potential pollutants. Multiple stormwater management BMPs may be necessary to achieve the established performance standards for water quality, quantity, and groundwater recharge.

B. Purpose.

1. The purpose of this ordinance is to establish minimum stormwater management requirement and controls for “major development” as defined below in Section 25-16.2.

C. Applicability.

1. This ordinance shall be applicable to the following major developments:
  - a. Non-residential major developments; and
  - b. Aspects of residential major developments that are not pre-empted by the Residential Site Improvement Standards at N.J.A.C. 5:21.
2. This ordinance shall also be applicable to all major developments undertaken by the Borough of Lakehurst.
3. An application required by ordinance pursuant to C.1 above that has been submitted prior to **{adoption date of this ordinance}**, shall be subject to the stormwater management requirements in effect on **{1 day prior to the adoption date of this ordinance}**.
4. An application required by ordinance for approval pursuant to (b)1 above that has been submitted on or after March 2, 2021, but prior to **{adoption date of this ordinance}**, shall be subject to the stormwater management requirements in effect on **{1 day prior to the adoption date of this ordinance}**.
5. Notwithstanding any rule to the contrary, a major development for any public roadway or railroad project conducted by a public transportation entity that has determined a preferred alternative or reached an equivalent milestone before July 17, 2023, shall be subject to the stormwater management requirements in effect prior to July 17, 2023.

#### D. Compatibility with Other Permit and Ordinance Requirements.

1. Development approvals issued pursuant to this ordinance are to be considered an integral part of development approvals and do not relieve the Applicant of the responsibility to secure required permit or approvals for activities regulated by any other applicable code, rule, act, or ordinance. In their interpretation and application, the provisions of this ordinance shall be held to be the minimum requirements for the promotion of public health, safety and general welfare
2. This ordinance is not intended to interfere with, abrogate, or annul any other ordinances, rule or regulation, statute, or other provision of law except that, where any provision of this ordinance imposes restrictions different from those imposed by any other ordinance, rule or regulation, or other provision of law, the more restrictive provisions or higher standards shall control.

#### **25-16.2 Definitions.**

For the purpose of this ordinance, the following terms, phrases, words and their derivations shall have the meanings stated herein unless their use in the text of this Chapter clearly demonstrates a different meaning. When not inconsistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number. The word “shall” is always mandatory and not merely directory. The definitions below are the same as or based on the corresponding definitions in the Stormwater Management Rules at N.J.A.C. 7:8-1.2.

“Aquaculture” means the propagation, rearing and subsequent harvesting of aquatic organisms in controlled or selected environments, and their subsequent processing,

packaging and marketing, including but not limited to, activities to intervene in the rearing process to increase production such as stocking, feeding, transplanting and providing for protection from predators.

“The Borough” means the Land Use Board or other board, agency or official of the Borough of Lakehurst with authority to approve or disapprove subdivisions, site plans, construction permits, building permits or other applications for development approval. For the purposes of reviewing development applications and ensuring compliance with the requirements of this ordinance, the Borough of Lakehurst may designate the municipal engineer or other qualified designee to act on behalf of the Borough of Lakehurst.

“Certification” means either a written statement signed and sealed by a licensed New Jersey Professional Engineer attesting that a BMP design or stormwater management system conforms to or meets a particular set of standards or to action taken by the Commission pursuant to N.J.A.C. 7:50-3, Part II or Part IV. Depending upon the context in which the term is used, the terms “certify” and “certified” shall be construed accordingly.

“CAFRA Centers, Cores or Nodes” means those areas with boundaries incorporated by reference or revised by the Department in accordance with N.J.A.C. 7:7-13.16.

“CAFRA Planning Map” means the map used by the Department to identify the location of Coastal Planning Areas, CAFRA centers, CAFRA cores, and CAFRA nodes. The CAFRA Planning Map is available on the Department's Geographic Information System (GIS).

“Community basin” means an infiltration system, sand filter designed to infiltrate, standard constructed wetland, or wet pond, established in accordance with N.J.A.C. 7:8-4.2(c)14, that is designed and constructed in accordance with the New Jersey Stormwater Best Management Practices Manual, or an alternate design, approved in accordance with N.J.A.C. 7:8-5.2(g), for an infiltration system, sand filter designed to infiltrate, standard constructed wetland, or wet pond and that complies with the requirements of this chapter.

“Compaction” means the increase in soil bulk density caused by subjecting soil to greater-than-normal loading. Compaction can also decrease soil infiltration and permeability rates.

“Construction” means the construction, erection, reconstruction, alteration, conversion, demolition, removal or equipping of buildings, structures or components of a stormwater management system including but not limited to collection inlets, stormwater piping, swales and all other conveyance systems, and stormwater BMPs.

“Contributory drainage area” means the area from which stormwater runoff drains to a stormwater management measure, not including the area of the stormwater management measure itself.

“Core” means a pedestrian-oriented area of commercial and civic uses serving the surrounding municipality, generally including housing and access to public transportation.

“County review agency” means an agency designated by the County Board of Chosen

Freeholders to review municipal stormwater management plans and implementing ordinance(s). The county review agency may either be:

1. A county planning agency; or
2. A county water resource association created under N.J.S.A. 58:16A-55.5, if the ordinance or resolution delegates authority to approve, conditionally approve, or disapprove municipal stormwater management plans and implementing ordinances.

“Department” means the Department of Environmental Protection.

“Designated Center” means a State Development and Redevelopment Plan Center as designated by the State Planning Commission such as urban, regional, town, village, or hamlet.

“Design engineer” means a person professionally qualified and duly licensed in New Jersey to perform engineering services that may include, but not necessarily be limited to, development of project requirements, creation and development of project design and preparation of drawings and specifications .

“Design permeability” means the tested permeability rate with a factor of safety of two (2) applied to it (e.g., if the tested permeability rate of the soils is four (4) inches per hour, the design rate would be two (2) inches per hour).

“Development” means the division of a parcel of land into two or more parcels, the construction, reconstruction, conversion, structural alteration, relocation or enlargement of any building or structure, any mining excavation or landfill , and any use or change in the use of any building or other structure, or land or extension of use of land, for which permission is required under the Municipal Land Use Law, N.J.S.A. 40:55D-1 *et seq.*

In the case of development on agricultural land, i.e. lands used for an agricultural use or purpose as defined at N.J.A.C. 7:50-2.11, development means: any activity that requires a State permit; any activity reviewed by the County Agricultural Boards (CAB) and the State Agricultural Development Committee (SADC), and municipal review of any activity not exempted by the Right to Farm Act, N.J.S.A. 4: 1C-1 *et seq.*

“Development, minor” means all development other than major development.

“Disturbance” means the placement or reconstruction of impervious surface or motor vehicle surface, or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Milling and repaving is not considered disturbance for the purposes of this definition.

“Drainage area” means a geographic area within which stormwater, sediments, or dissolved materials drain to a BMP, a stormwater management system, a particular receiving waterbody or a particular point along a receiving waterbody.

“Empowerment Neighborhoods” means neighborhoods designated by the Urban Coordinating Council “in consultation and conjunction with” the New Jersey



Redevelopment Authority pursuant to N.J.S.A. 55:19-69.

“Environmentally constrained area” means the following areas where the physical alteration of the land is in some way restricted, either through regulation, easement, deed restriction or ownership such as: wetlands, floodplains, threatened and endangered species sites or designated habitats, and parks and preserves. Habitats of endangered or threatened species are identified using the Department's Landscape Project as approved by the Department's Endangered and Nongame Species Program.

“Environmentally critical area” means an area or feature which is of significant environmental value, including but not limited to: stream corridors; natural heritage priority sites; habitats of endangered or threatened animal species; threatened or endangered plants of the Pinelands pursuant to N.J.A.C. 7:5-6.27(a); large areas of contiguous open space or upland forest; steep slopes; and well head protection and groundwater recharge areas. T & E habitat constitutes habitat that is critical for the survival of a local population of threatened and endangered species or habitat that is identified using the Department's Landscape Project as approved by the Department's Endangered and Non-game Species Program, whichever is more inclusive. Threatened and endangered wildlife shall be protected in conformance with N.J.A.C. 7:50-6.33.

“Erosion” means the detachment and movement of soil or rock fragments by water, wind, ice, or gravity.

“Exception” means the approval by the approving authority of a variance or other material departure from strict compliance with any section, part, phrase or provision of this ordinance. An exception may be granted only under certain specific, narrowly defined conditions described herein and does not constitute a waiver of strict compliance with any section, part, phrase or provision of the Pinelands Comprehensive Management Plan (N.J.A.C. 7:50-1.1 et seq.).

“Extended detention basin” means a facility constructed through filling and/or excavation that provides temporary storage of stormwater runoff. It has an outlet structure that detains and attenuates runoff inflows and promotes the settlement of pollutants. An extended detention basin is normally designed as a multi-stage facility that provides runoff storage and attenuation for both stormwater quality and quantity management. The term “stormwater detention basin” shall have the same meaning as “extended detention basin.”

“Finished grade” means the elevation of the surface of the ground after completion of final grading, either via cutting, filling, or a combination thereof.

“Grading” means modification of a land slope by cutting and filling with the native soil or re-distribution of the native soil which is present at the site.

“Green infrastructure” means a stormwater management measure that manages stormwater close to its source by:

1. Treating stormwater runoff through infiltration into subsoil;
2. Treating stormwater runoff through filtration by vegetation or soil; or

3. Storing stormwater runoff for reuse.

“Groundwater” means water below the land surface in a zone of saturation.

“Groundwater mounding analysis” means a test performed to demonstrate that the groundwater below a stormwater infiltration basin will not “mound up,” encroach on the unsaturated zone, break the surface of the ground at the infiltration area or downslope, and create an overland flow situation .

“Heavy Equipment” means equipment, machinery, or vehicles that exert ground pressure in excess of eight (8) pounds per square inch .

“High Pollutant Loading Area” means an area in an industrial or commercial development site: where solvents and/or petroleum products are loaded/unloaded, stored, or applied; where pesticides are loaded/unloaded or stored; where hazardous materials are expected to be present in greater than “reportable quantities” as defined by the United States Environmental Protection Agency (EPA) at 40 CFR 302.4; where recharge would be inconsistent with NJDEP- approved remedial action work plan or landfill closure plan; and/or where a high risk exists for spills of toxic materials, such as gas stations and vehicle maintenance facilities. The term “HPLA” shall have the same meaning as “High Pollutant Loading Area.”

“HUC 14” or “hydrologic unit code 14” means an area within which water drains to a particular receiving surface water body, also known as a subwatershed, which is identified by a 14-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

“Impervious surface” means a surface that has been covered with a layer of material so that it is highly resistant to infiltration by water.

“Infiltration” is the process by which precipitation enters the soil through its surface.

“In lieu contribution” means a monetary fee collected by the Borough in lieu of requiring strict on-site compliance with the groundwater recharge, stormwater runoff quantity and/or stormwater runoff quality standards established in this ordinance.

“Install” means to assemble, construct, put in place or connect components of a stormwater management system.

“Lead planning agency” means one or more public entities having stormwater management planning authority designated by the regional stormwater management planning committee pursuant to N.J.A.C. 7:8-3.2, that serves as the primary representative of the committee.

“Major development” means an individual “development”, as well as multiple developments that individually or collectively result in:

1. The disturbance of one or more acres of land since February 2, 2004;
2. The creation of one-quarter acre or more of “regulated impervious surface” since

February 2, 2004;

3. The creation of one-quarter acre or more of “regulated motor vehicle surface” since March 2, 2021; or
4. A combination of 2 and 3 above that totals an area of one-quarter acre or more. The same surface shall not be counted twice when determining if the combination area equals one-quarter acre or more.

Major development includes all developments that are part of a common plan of development or sale (for example, phased residential development) that collectively or individually meet any one or more of paragraphs 1, 2, 3, or 4 above. Projects undertaken by any government agency that otherwise meet the definition of “major development” but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered “major development.”

*NOTE: The definition of major development above aligns with the definition at N.J.A.C. 7:8-1.2 and is recommended for consistency. Alternatively, a municipality may adopt the following definition, which is the minimum standard required. Municipalities that have already adopted the definition at N.J.A.C. 7:8-1.2 or another definition that goes beyond the minimum requirement should not reduce the stringency of their definition by adopting the minimum standard.*

*“Major development” means an individual “development,” as well as multiple developments that individually or collectively result in the disturbance of one or more acres of land since February 2, 2004.*

*Major development includes all developments that are part of a common plan of development or sale (for example, phased residential development) that collectively or individually result in the disturbance of one or more acres of land since February 2, 2004. Projects undertaken by any government agency that otherwise meet the definition of “major development” but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered “major development.”*

*Additionally, individual municipalities may define major development with a smaller area of disturbance, a smaller area of regulated impervious or motor vehicle surface, or both.*

“Mitigation” means acts necessary to prevent, limit, remedy or compensate for conditions that may result from those cases where an applicant has demonstrated the inability or impracticality of strict compliance with the stormwater management requirements set forth in N.J.A.C. 7:8, in an adopted regional stormwater management plan, or in a local ordinance which is as protective as N.J.A.C. 7:8, and an exception from strict compliance is granted by the Borough and the Pinelands Commission.

“Motor vehicle” means land vehicles propelled other than by muscular power, such as automobiles, motorcycles, autocycles, and low speed vehicles. For the purposes of this definition, motor vehicle does not include farm equipment, snowmobiles, all-terrain vehicles, motorized wheelchairs, go-carts, gas buggies, golf carts, ski-slope grooming machines, or vehicles that run only on rails or tracks.

“Motor vehicle surface” means any pervious or impervious surface that is intended to be used by “motor vehicles” and/or aircraft, and is directly exposed to precipitation including, but not limited to, driveways, parking areas, parking garages, roads, racetracks, and runways.

“Municipality” means any city, borough, town, township, or village.

“New Jersey Stormwater Best Management Practices (BMP) Manual” or “BMP Manual” means the manual maintained by the Department providing, in part, design specifications, removal rates, calculation methods, and soil testing procedures approved by the Department as being capable of contributing to the achievement of the stormwater management standards specified in this chapter. The BMP Manual is periodically amended by the Department as necessary to provide design specifications on additional best management practices and new information on already included practices reflecting the best available current information regarding the particular practice and the Department’s determination as to the ability of that best management practice to contribute to compliance with the standards contained in this chapter. Alternative stormwater management measures, removal rates, or calculation methods may be utilized, subject to any limitations specified in this chapter, provided the design engineer demonstrates to the municipality, in accordance with Section 25-16.4(F). of this ordinance and N.J.A.C. 7:8-5.2(g), that the proposed measure and its design will contribute to achievement of the design and performance standards established by this chapter.

“NJDEP” means the New Jersey Department of Environmental Protection.

“NJPDES” means the New Jersey Pollutant Discharge Elimination System as set forth in N.J.S.A 58:10A-1 et seq. and in NJ.AC. 7:14A

“NJPDES permit” means a permit issued by the NJDEP pursuant to the authority of the Water Pollution Control Act, NJ .S.A 58:10A-1 et seq., and N.J.A.C. 7:14A for a discharge of pollutants.

“Node” means an area designated by the State Planning Commission concentrating facilities and activities which are not organized in a compact form.

“Nonstructural BMP” means a stormwater management measure, strategy or combination of strategies that reduces adverse stormwater runoff impacts through sound site planning and design. Nonstructural BMPs include such practices as minimizing site disturbance, preserving important site features, reducing and disconnecting impervious cover, flattening slopes, utilizing native vegetation, minimizing turf grass lawns, maintaining natural drainage features and characteristics and controlling stormwater runoff and pollutants closer to the source. The term “Low Impact Development technique” shall have the same meaning as “nonstructural BMP.”

“Nutrient” means a chemical element or compound, such as nitrogen or phosphorus, which is essential to and promotes the development of organisms.

“Permeability” means the rate at which water moves through a saturated unit area of soil or rock material at hydraulic gradient of one, determined as prescribed in N.J.A.C. 7:9A-6.2 (Tube Permeameter Test), N.J.A.C. 6.5 (Pit Bailing Test) or N.J.A.C. 6.6 (Piezometer Test). Alternative permeability test procedures may be accepted by the approving authority provided the test procedure attains saturation of surrounding soils, accounts for hydraulic head effects on infiltration rates, provides a permeability rate with units expressed in inches per hour and is accompanied by a published source reference. Examples of suitable sources include hydrogeology, geotechnical, or engineering text and design manuals, proceedings of American Society for Testing and Materials (ASTM) symposia, or peer-review journals. Neither a Soil Permeability Class Rating Test, as described in N.J.A.C. 7:9A-6.3, nor a Percolation Test, as described in N.J.A.C. 7:9A-6.4, are acceptable tests for establishing permeability values for the purpose of complying with this ordinance.

“Permeable” means having a permeability of one (1) inch per hour or faster. The terms “permeable soil,” “permeable rock” and “permeable fill” shall be construed accordingly.

“Person” means any individual, corporation, company, partnership, firm, association, municipality or political subdivision of this State subject to municipal jurisdiction pursuant to the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq. Person shall also mean any state, interstate, or Federal Agency.

“Pinelands Commission” or “Commission” means the Commission created pursuant Section 5 of the Pinelands Protection Act, N.J.S.A. 13:18A-5.

“Pinelands CMP” means the New Jersey Pinelands Comprehensive Management Plan (N.J.A.C. 7:50 1.1 et seq).

“Pollutant” means any dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, medical wastes, radioactive substances (except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C . 2011 et seq.), thermal waste, wrecked or discarded equipment, rock, sand, suspended solids, cellar dirt, industrial, municipal, agricultural, and construction waste or runoff, or other residue discharged directly or indirectly to the land, groundwaters or surface waters of the State, or to a domestic treatment works. “Pollutant” includes both hazardous and nonhazardous pollutants.

“Professional Engineer” means a person licensed to practice Professional Engineering in the State of New Jersey pursuant to N.J.S.A. 48:8-27 et seq.

"Public roadway or railroad" means a pathway for use by motor vehicles or trains that is intended for public use and is constructed by, or on behalf of, a public transportation entity. A public roadway or railroad does not include a roadway or railroad constructed as part of a private development, regardless of whether the roadway or railroad is ultimately to be dedicated to and/or maintained by a governmental entity.

“Public transportation entity” means a Federal, State, county, or municipal government, an independent State authority, or a statutorily authorized public-private partnership program pursuant to P.L. 2018, c. 90 (N.J.S.A. 40A:11-52 et seq.), that performs a public roadway

or railroad project that includes new construction, expansion, reconstruction, or improvement of a public roadway or railroad.

“Recharge” means the amount of water from precipitation that infiltrates into the ground and is not evapotranspiration.

“Regulated impervious surface” means any of the following, alone or in combination:

1. A net increase of impervious surface;
2. The total area of impervious surface collected by a new stormwater conveyance system (for the purpose of this definition, a “new stormwater conveyance system” is a stormwater conveyance system that is constructed where one did not exist immediately prior to its construction or an existing system for which a new discharge location is created);
3. The total area of impervious surface proposed to be newly collected by an existing stormwater conveyance system; and/or
4. The total area of impervious surface collected by an existing stormwater conveyance system where the capacity of that conveyance system is increased.

“Regulated motor vehicle surface” means any of the following, alone or in combination:

1. The total area of motor vehicle surface that is currently receiving water;
2. A net increase in motor vehicle surface; and/or  
quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater treatment plant, where the water quality treatment will be modified or removed.

“Replicate” means one of two or more soil samples or tests taken at the same location (within five feet of each other) and depth, within the same soil horizon or substratum. In the case of fill material, replicate tests are tests performed on sub- samples of the same bulk sample packed to the same bulk density.

“Sand” means a particle size category consisting of mineral particles which are between 0.05 and 2.0 millimeters in equivalent spherical diameter. Also, a soil textural class having 85 percent or more of sand and a content of silt and clay such that the percentage of silt plus 1.5 times the percentage of clay does not exceed 15, as shown in Section 25-16.11(C)(1) (USDA Soil Textural Triangle).

“Seasonally high water table” means the upper limit of the shallowest zone of saturation which occurs in the soil, identified as prescribed in N.J.A.C. 7:9A-5.8.

“Sediment” means solid material, mineral or organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water or gravity as a product of erosion.

“Site” means the lot or lots upon which a major development is to occur or has occurred.

“Soil” means all unconsolidated mineral and organic material of any origin.

“Source material” means any material(s) or machinery , located at an industrial facility that is directly or indirectly related to process, manufacturing or other industrial activities, which could be a source of pollutants in any industrial stormwater discharge to groundwater. Source materials include, but are not limited to, raw materials; intermediate products; final products; waste materials; by-products; industrial machinery and fuels, and lubricants, solvents, and detergents that are related to process, manufacturing, or other industrial activities that are exposed to stormwater.

“State Development and Redevelopment Plan Metropolitan Planning Area (PA1)” means an area delineated on the State Plan Policy Map and adopted by the State Planning Commission that is intended to be the focus for much of the State’s future redevelopment and revitalization efforts.

“State Plan Policy Map” is defined as the geographic application of the State Development and Redevelopment Plan’s goals and statewide policies, and the official map of these goals and policies.

“Stormwater” means water resulting from precipitation (including rain and snow) that runs off the land’s surface, is transmitted to the subsurface, or is captured by separate storm sewers or other sewage or drainage facilities, or conveyed by snow removal equipment.

“Stormwater management BMP” means an excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management BMP may either be normally dry (that is, a detention basin or infiltration system), retain water in a permanent pool (a retention basin), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).

“Stormwater management measure” means any practice, technology, process, program, or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater or to eliminate illicit or illegal non-stormwater discharges into stormwater conveyances.

“Stormwater management planning agency” means a public body authorized by legislation to prepare stormwater management plans.

“Stormwater management planning area” means the geographic area for which a stormwater management planning agency is authorized to prepare stormwater management plans, or a specific portion of that area identified in a stormwater management plan prepared by that agency.

“Stormwater runoff” means water flow on the surface of the ground or in storm sewers, resulting from precipitation.

“Suitable soil” means unsaturated soil, above the seasonally high water table, which contains less than fifty percent (50%) by volume of coarse fragments and which has a tested permeability rate of between one (1) and twenty (20) inches per hour.

“Surface water” means any waters of the State which are not groundwater.

“Time of concentration” means the time it takes for runoff to travel from the hydraulically most distant point of the drainage area to the point of interest within a watershed.

“Total Suspended Solids” means the insoluble solid matter suspended in water and stormwater that is separable by laboratory filtration in accordance with the procedure contained in the "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health Association, American Water Works Association and the Water Pollution Control Federation . The term “TSS” shall have the same meaning as “Total Suspended Solids.”

“Tidal Flood Hazard Area” means a flood hazard area in which the flood elevation resulting from the two-, 10-, or 100-year storm, as applicable, is governed by tidal flooding from the Atlantic Ocean. Flooding in a tidal flood hazard area may be contributed to, or influenced by, stormwater runoff from inland areas, but the depth of flooding generated by the tidal rise and fall of the Atlantic Ocean is greater than flooding from any fluvial sources. In some situations, depending upon the extent of the storm surge from a particular storm event, a flood hazard area may be tidal in the 100-year storm, but fluvial in more frequent storm events.

“Urban Coordinating Council Empowerment Neighborhood” means a neighborhood given priority access to State resources through the New Jersey Redevelopment Authority.

“Urban Enterprise Zones” means a zone designated by the New Jersey Enterprise Zone Authority pursuant to the New Jersey Urban Enterprise Zones Act, N.J.S.A. 52:27H-60 et. seq.

“Urban Redevelopment Area” is defined as previously developed portions of areas:

1. Delineated on the State Plan Policy Map (SPPM) as the Metropolitan Planning Area (PA1), Designated Centers, Cores or Nodes;
2. Designated as CAFRA Centers, Cores or Nodes;
3. Designated as Urban Enterprise Zones; and
4. Designated as Urban Coordinating Council Empowerment Neighborhoods.

“Water control structure” means a structure within, or adjacent to, a water, which intentionally or coincidentally alters the hydraulic capacity, the flood elevation resulting from the two-, 10-, or 100-year storm, flood hazard area limit, and/or floodway limit of the water. Examples of a water control structure may include a bridge, culvert, dam, embankment, ford (if above grade), retaining wall, and weir.

“Waters of the State” means the ocean and its estuaries, all springs, streams, wetlands, and bodies of surface and groundwater, whether natural or artificial, within the boundaries of New Jersey or subject to its jurisdiction.

“Water table” means the upper surface of a zone of saturation.



“Well” means a bored, drilled or driven shaft, or a dug hole, which extends below the seasonally high water table and which has a depth which is greater than its largest surface dimension.

“Wetlands” or “wetland” means an area that is inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions, commonly known as hydrophytic vegetation.

“Wet pond” means a stormwater facility constructed through filling and/or excavation that provides both permanent and temporary storage of stormwater runoff. It has an outlet structure that creates a permanent pool and detains and attenuates runoff inflows and promotes the settling of pollutants. A stormwater retention basin can also be designed as a multi-stage facility that also provides extended detention for enhanced stormwater quality design storm treatment and runoff storage and attenuation for stormwater quantity management. The term “stormwater retention basin” shall have the same meaning as “wet pond.”

### **25-16.3 Design and Performance Standards for Stormwater Management Measures**

- A. Stormwater management measures for major development shall be designed to provide erosion control, groundwater recharge, stormwater runoff quantity control, and stormwater runoff quality treatment as follows:
  - 1. The minimum standards for erosion control are those established under the Soil and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules at N.J.A.C. 2:90.
  - 2. The minimum standards for groundwater recharge, stormwater quality, and stormwater runoff quantity shall be met by incorporating green infrastructure.
- B. The standards in this ordinance apply only to new major development and are intended to minimize the impact of stormwater runoff on water quality and water quantity in receiving water bodies and maintain groundwater recharge. The standards do not apply to new major development to the extent that alternative design and performance standards are applicable under a regional stormwater management plan or Water Quality Management Plan adopted in accordance with Department rules.

*Note: Alternative standards shall provide at least as much protection from stormwater-related loss of groundwater recharge, stormwater quantity and water quality impacts of major development projects as would be provided under the standards in N.J.A.C. 7:8-5.*

### **25-16.4 Stormwater Management Requirements for Major Development**

- A. The development shall incorporate a maintenance plan for the stormwater management measures incorporated into the design of a major development in accordance with Section 25-16.10.
- B. Stormwater management measures shall avoid adverse impacts of concentrated flow on habitat

for threatened and endangered species as documented in the Department's Landscape Project or Natural Heritage Database established under N.J.S.A. 13:1B-15.147 through 15.150, particularly *Helonias bullata* (swamp pink) and/or *Clemmys muhlnebergi* (bog turtle).

- C. The following linear development projects are exempt from the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity requirements of Section 25-16.4P, Q and R:
1. The construction of an underground utility line provided that the disturbed areas are revegetated upon completion;
  2. The construction of an aboveground utility line provided that the existing conditions are maintained to the maximum extent practicable; and
  3. The construction of a public pedestrian access, such as a sidewalk or trail with a maximum width of 14 feet, provided that the access is made of permeable material.
- D. A waiver from strict compliance from the green infrastructure, groundwater recharge, stormwater runoff quality, and stormwater runoff quantity requirements of Section 25-16.4O, P, Q and R, may be obtained for the enlargement of an existing public roadway or railroad; or the construction or enlargement of a public pedestrian access, provided that the following conditions are met:
1. The applicant demonstrates that there is a public need for the project that cannot be accomplished by any other means;
  2. The applicant demonstrates through an alternative's analysis, that through the use of stormwater management measures, the option selected complies with the requirements of Section 25-16.4O, P, Q and R to the maximum extent practicable;
  3. The applicant demonstrates that, in order to meet the requirements of Section 25-16.4O, P, Q and R, existing structures currently in use, such as homes and buildings, would need to be condemned; and
  4. The applicant demonstrates that it does not own or have other rights to areas, including the potential to obtain through condemnation lands not falling under Section 25-16.4 D.3 within the upstream drainage area of the receiving stream, that would provide additional opportunities to mitigate the requirements of Section 25-16.4O, P, Q and R that were not achievable onsite.
- E. Tables 1 through 3 below summarize the ability of stormwater best management practices identified and described in the New Jersey Stormwater Best Management Practices Manual to satisfy the green infrastructure, groundwater recharge, stormwater runoff quality and stormwater runoff quantity standards specified in Section 25-16.4O, P, Q and R. When designed in accordance with the most current version of the New Jersey Stormwater Best Management Practices Manual, the stormwater management measures found at N.J.A.C. 7:8-5.2 (f) Tables 5-1, 5-2 and 5-3 and listed below in Tables 1, 2 and 3 are presumed to be capable of providing stormwater controls for the design and performance standards as outlined in the tables below. Upon amendments of the New Jersey Stormwater Best Management Practices to reflect additions or deletions of BMPs meeting these standards, or changes in the presumed performance of BMPs designed in accordance with the New Jersey Stormwater BMP Manual, the Department shall publish in the New Jersey Registers a notice of administrative change revising the applicable table. The most current version of the BMP Manual can be found on

the Department's website at:

[https://njstormwater.org/bmp\\_manual2.htm](https://njstormwater.org/bmp_manual2.htm).

- F. Where the BMP tables in the NJ Stormwater Management Rule are different due to updates or amendments with the tables in this ordinance the BMP Tables in the Stormwater Management rule at N.J.A.C. 7:8-5.2(f) shall take precedence.

| <b>Table 1<br/>Green Infrastructure BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity</b> |   |                                   |   |   |
|---|---|-----------------------------------|---|---|
| <b>Best Management Practice</b>   | <b>Stormwater Runoff Quality TSS Removal Rate (percent)</b> | <b>Stormwater Runoff Quantity</b> | <b>Groundwater Recharge</b>             | <b>Minimum Separation from Seasonal High Water Table (feet)</b> |
| Cistern   | 0   | Yes                               | No                                      | --  |
| Dry Well <sup>(a)</sup>   | 0   | No                                | Yes                                     | 2   |
| Grass Swale   | 50 or less  | No                                | No                                      | 2 <sup>(e)</sup><br>1 <sup>(f)</sup>                            |
| Green Roof  | 0   | Yes                               | No                                      | --  |
| Manufactured Treatment Device <sup>(a)</sup> <sup>(g)</sup>   | 50 or 80  | No                                | No                                      | Dependent upon the device                                       |
| Pervious Paving System <sup>(a)</sup>   | 80  | Yes                               | Yes <sup>(b)</sup><br>No <sup>(c)</sup> | 2 <sup>(b)</sup><br>1 <sup>(c)</sup>                            |
| Small-Scale Bioretention Basin <sup>(a)</sup>   | 80 or 90  | Yes                               | Yes <sup>(b)</sup><br>No <sup>(c)</sup> | 2 <sup>(b)</sup><br>1 <sup>(c)</sup>                            |
| Small-Scale Infiltration Basin <sup>(a)</sup>   | 80  | Yes                               | Yes                                     | 2   |
| Small-Scale Sand Filter   | 80  | Yes                               | Yes                                     | 2   |
| Vegetative Filter Strip   | 60-80   | No                                | No                                      | --  |

*(Notes corresponding to annotations <sup>(a)</sup> through <sup>(g)</sup> are found below)*

**Table 2**  
**Green Infrastructure BMPs for Stormwater Runoff Quantity**  
**(or for Groundwater Recharge and/or Stormwater Runoff Quality**  
**with a Waiver or Variance from N.J.A.C. 7:8-5.3)**

| <b>Best Management Practice</b> | <b>Stormwater Runoff Quality TSS Removal Rate (percent)</b> | <b>Stormwater Runoff Quantity</b> | <b>Groundwater Recharge</b>             | <b>Minimum Separation from Seasonal High Water Table (feet)</b> |
|---------------------------------|---|-----------------------------------|---|---|
| Bioretention System             | 80 or 90  | Yes                               | Yes <sup>(b)</sup><br>No <sup>(c)</sup> | 2 <sup>(b)</sup><br>1 <sup>(c)</sup>                            |
| Infiltration Basin              | 80  | Yes                               | Yes                                     | 2   |
| Sand Filter <sup>(b)</sup>      | 80  | Yes                               | Yes                                     | 2   |
| Standard Constructed Wetland    | 90  | Yes                               | No                                      | N/A   |
| Wet Pond <sup>(d)</sup>         | 50-90   | Yes                               | No                                      | N/A   |

*(Notes corresponding to annotations <sup>(b)</sup> through <sup>(d)</sup> are found below)*

**Table 3**  
**BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or**  
**Stormwater Runoff Quantity**  
**only with a Waiver or Variance from N.J.A.C. 7:8-5.3**

| <b>Best Management Practice</b>              | <b>Stormwater Runoff Quality TSS Removal Rate (percent)</b> | <b>Stormwater Runoff Quantity</b> | <b>Groundwater Recharge</b> | <b>Minimum Separation from Seasonal High Water Table (feet)</b> |
|--|---|-----------------------------------|-----------------------------|---|
| Blue Roof                                    | 0   | Yes                               | No                          | N/A   |
| Extended Detention Basin                     | 40-60   | Yes                               | No                          | 1   |
| Manufactured Treatment Device <sup>(h)</sup> | 50 or 80  | No                                | No                          | Dependent upon the device                                       |
| Sand Filter <sup>(c)</sup>                   | 80  | Yes                               | No                          | 1   |
| Subsurface Gravel Wetland                    | 90  | No                                | No                          | 1   |
| Wet Pond                                     | 50-90   | Yes                               | No                          | N/A   |

Notes to Tables 1, 2, and 3:

- a. subject to the applicable contributory drainage area limitation specified at Section 25-16.4O.2;
  - b. designed to infiltrate into the subsoil;
  - c. designed with underdrains;
  - d. designed to maintain at least a 10-foot wide area of native vegetation along at least 50 percent of the shoreline and to include a stormwater runoff retention component designed to capture stormwater runoff for beneficial reuse, such as irrigation;
  - e. designed with a slope of less than two percent;
  - f. designed with a slope of equal to or greater than two percent;
  - g. manufactured treatment devices that meet the definition of green infrastructure at Section 25-16.2;
  - h. manufactured treatment devices that do not meet the definition of green infrastructure at Section 25-16.2.
- G. An alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate may be used if the design engineer demonstrates the capability of the proposed alternative stormwater management measure and/or the validity of the alternative rate or method to the municipality. A copy of any approved alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate shall be provided to the Department in accordance with Section 25-16.6.B. Alternative stormwater management measures may be used to satisfy the requirements at Section 25-16.4(O) only if the measures meet the definition of green infrastructure at Section 25-16.2. Alternative stormwater management measures that function in a similar manner to a BMP listed at Section 25-16.4O.2 are subject to the contributory drainage area limitation specified at Section 25-16.4O.2 for that similarly functioning BMP. Alternative stormwater management measures approved in accordance with this subsection that do not function in a similar manner to any BMP listed at Section 25-16.4O.2 shall have a contributory drainage area less than or equal to 2.5 acres, except for alternative stormwater management measures that function similarly to cisterns, grass swales, green roofs, standard constructed wetlands, vegetative filter strips, and wet ponds, which are not subject to a contributory drainage area limitation. Alternative measures that function similarly to standard constructed wetlands or wet ponds shall not be used for compliance with the stormwater runoff quality standard unless a variance in accordance with N.J.A.C. 7:8-4.6 or a waiver from strict compliance in accordance with Section 25-16.4D is granted from Section 25.16.4O.
- H. Whenever the stormwater management design includes one or more BMPs that will infiltrate stormwater into subsoil, the design engineer shall assess the hydraulic impact on the groundwater table and design the site, so as to avoid adverse hydraulic impacts. Potential adverse hydraulic impacts include, but are not limited to, exacerbating a naturally or seasonally high water table, so as to cause surficial ponding, flooding of basements, or interference with the proper operation of subsurface sewage disposal systems or other subsurface structures within the zone of influence of the groundwater mound, or interference with the proper functioning of the stormwater management measure itself.
- I. Design Standards for stormwater management measures are as follows:

1. Stormwater management measures shall be designed to take into account the existing site conditions, including, but not limited to, environmentally critical areas, wetlands, flood-prone areas, slopes, depth to seasonal high water table, soil type, permeability and texture, drainage area and drainage patterns, and the presence of solution-prone carbonate rocks (limestone).
  2. Stormwater management measures shall be designed to minimize maintenance, facilitate maintenance and repairs, and ensure proper functioning. Trash racks shall be installed at the intake to the outlet structure, as appropriate, and shall have parallel bars with one-inch spacing between the bars to the elevation of the water quality design storm. For elevations higher than the water quality design storm, the parallel at the outlet structure shall be spaced no greater than one-third the width of the diameter of the orifice or one-third the width of the weir with a minimum spacing between the bars of six inches. In addition, the design of the trash racks must comply with the requirements of Section 25-16.8C.
  3. Stormwater management measures shall be designed and constructed to be strong, durable, and corrosion resistant. Measures that are consistent with the relevant portions of the Residential Site Improvement Standards at N.J.A.C. 5:21-7.3, 7.4, and 7.8 shall be deemed to meet these requirements, to minimize and facilitate maintenance and repairs; and to ensure proper functioning.
  4. Stormwater management BMPs shall be designed to meet the minimum safety standards for stormwater management BMPs at Section 25-16.8.
  5. The size of the orifice at the intake to the outlet from the stormwater management BMP shall be a minimum of two and one-half inches in diameter.
- J. Manufactured treatment devices may be used to meet the requirements of this subchapter, provided the pollutant removal rates are verified by the New Jersey Corporation for Advanced Technology and certified by the Department. Manufactured treatment devices that do not meet the definition of green infrastructure at Section 25-16.2 may be used only under the circumstances described at Section 25-16.4O.4.
- K. Any application for a new agricultural development that meets the definition of major development at Section 25-16.2 shall be submitted to the Soil Conservation District for review and approval in accordance with the requirements at Section 25-16.4O, P, Q and R and any applicable Soil Conservation District guidelines for stormwater runoff quantity and erosion control. For purposes of this subsection, "agricultural development" means land uses normally associated with the production of food, fiber, and livestock for sale. Such uses do not include the development of land for the processing or sale of food and the manufacture of agriculturally related products.
- L. If there is more than one drainage area, the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at Sections 25-16.4P, Q and R shall be met in each drainage area, unless the runoff from the drainage areas converge onsite and no adverse environmental impact would occur as a result of compliance with any one or more of the individual standards being determined utilizing a weighted average of the results achieved for that individual standard across the affected drainage areas.
- M. Any stormwater management measure authorized under the municipal stormwater

management plan or ordinance shall be reflected in a recorded deed notice recorded at the Ocean County Clerk’s office. A form of deed notice shall be submitted to the municipality for approval prior to filing. The deed notice shall contain a description of the stormwater management measure(s) used to meet the green infrastructure, groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at Sections 25-16.4O, P, Q and R and shall identify the location of the stormwater management measure(s) in NAD 1983 State Plane New Jersey FIPS 2900 US Feet or Latitude and Longitude in decimal degrees. The deed notice shall also reference the maintenance plan required to be recorded upon the deed pursuant to Section 25-16.10.B.5. Prior to the commencement of construction, proof that the above required deed notice has been filed shall be submitted to the municipality. Proof that the required information has been recorded on the deed shall be in the form of either a copy of the complete recorded document or a receipt from the clerk or other proof of recordation provided by the recording office. However, if the initial proof provided to the municipality is not a copy of the complete recorded document, a copy of the complete recorded document shall be provided to the municipality within 180 calendar days of the authorization granted by the municipality.

N. A stormwater management measure approved under the municipal stormwater management plan or ordinance may be altered or replaced with the approval of the municipality, if the municipality determines that the proposed alteration or replacement meets the design and performance standards pursuant to Section 25-16.4 of this ordinance and provides the same level of stormwater management as the previously approved stormwater management measure that is being altered or replaced. If an alteration or replacement is approved, a revised deed notice shall be submitted to the municipality for approval and subsequently recorded with the Ocean County Clerk’s office and shall contain a description and location of the stormwater management measure, as well as reference to the maintenance plan, in accordance with M above. Prior to the commencement of construction, proof that the above required deed notice has been filed shall be submitted to the municipality in accordance with M above.

O. Green Infrastructure Standards

1. This subsection specifies the types of green infrastructure BMPs that may be used to satisfy the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards.
2. To satisfy the groundwater recharge and stormwater runoff quality standards at Sections 25-16.4P and Q, the design engineer shall utilize green infrastructure BMPs identified in Table 1 at Section 25-16F. and/or an alternative stormwater management measure approved in accordance with Section 25-16.4G. The following green infrastructure BMPs are subject to the following maximum contributory drainage area limitations:

| <b>Best Management Practice</b> | <b>Maximum Contributory Drainage Area</b> |
|---------------------------------|---|
| Dry Well                        | 1 acre                                    |
| Manufactured Treatment Device   | 2.5 acres                                 |

|                                  |  |
|----------------------------------|--|
| Pervious Pavement Systems        | Area of additional inflow cannot exceed three times the area occupied by the BMP |
| Small-scale Bioretention Systems | 2.5 acres  |
| Small-scale Infiltration Basin   | 2.5 acres  |
| Small-scale Sand Filter          | 2.5 acres  |

3. To satisfy the stormwater runoff quantity standards at Section 25-16.4R, the design engineer shall utilize BMPs from Table 1 or from Table 2 and/or an alternative stormwater management measure approved in accordance with Section 25-16.4G.
4. If a variance in accordance with N.J.A.C. 7:8-4.6 or a waiver from strict compliance in accordance with Section 25-16.4D is granted from the requirements of this subsection, then BMPs from Table 1, 2, or 3, and/or an alternative stormwater management measure approved in accordance with Section 25-16.4G may be used to meet the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at Sections 25-16.4P, Q and R.
5. For separate or combined storm sewer improvement projects, such as sewer separation, undertaken by a government agency or public utility (for example, a sewerage company), the requirements of this subsection shall only apply to areas owned in fee simple by the government agency or utility, and areas within a right-of-way or easement held or controlled by the government agency or utility; the entity shall not be required to obtain additional property or property rights to fully satisfy the requirements of this subsection. Regardless of the amount of area of a separate or combined storm sewer improvement project subject to the green infrastructure requirements of this subsection, each project shall fully comply with the applicable groundwater recharge, stormwater runoff quality control, and stormwater runoff quantity standards at Sections 25-16.4P, Q and R, unless the project is granted a waiver from strict compliance in accordance with Section 24-16.4D.

P. Groundwater Recharge Standards.

1. This subsection contains the minimum design and performance standards for groundwater recharge as follows:
2. The design engineer, using the assumptions and factors for stormwater runoff and groundwater recharge calculations at Section 25-16.5 shall either:
  - a. Demonstrate through hydrologic and hydraulic analysis that the site and its stormwater management measures maintain 100 percent of the average annual preconstruction groundwater recharge volume for the site.
  - b. Demonstrate through hydrologic and hydraulic analysis that any increase of the stormwater runoff volume from preconstruction to post construction for the 2-year storm, as defined and determined pursuant to Section 25-16.5D
3. This groundwater recharge requirement does not apply to projects within the “urban redevelopment area,” or to projects subject to 4 below.
4. The following types of stormwater shall not be recharged:



- a. Stormwater from areas of high pollutant loading. High pollutant loading areas are areas in industrial and commercial developments where solvents and/or petroleum products are loaded/unloaded, stored, or applied, areas where pesticides are loaded/unloaded or stored; areas where hazardous materials are expected to be present in greater than “reportable quantities” as defined by the United States Environmental Protection Agency (EPA) at 40 CFR 302.4; areas where recharge would be inconsistent with Department approved remedial action work plan or landfill closure plan and areas with high risks for spills of toxic materials, such as gas stations and vehicle maintenance facilities; and
- b. Industrial stormwater exposed to “source material.” “Source material” means any material(s) or machinery, located at an industrial facility, that is directly or indirectly related to process, manufacturing or other industrial activities, which could be a source of pollutants in any industrial stormwater discharge to groundwater. Source materials include, but are not limited to, raw materials; intermediate products; final products; waste materials; by-products; industrial machinery and fuels, and lubricants, solvents, and detergents that are related to process, manufacturing, or other industrial activities that are exposed to stormwater.

#### Q. Stormwater Runoff Quality Standards

1. This subsection contains the minimum design and performance standards to control stormwater runoff quality impacts of major development. Stormwater runoff quality standards are applicable when the major development results in an increase of one-quarter acre or more of regulated motor vehicle surface.
2. Stormwater management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff generated from the water quality design storm as follows:
  - a. Eighty percent TSS removal of the anticipated load, expressed as an annual average shall be achieved for the stormwater runoff from the net increase of motor vehicle surface.
  - b. If the surface is considered regulated motor vehicle surface because the water quality treatment for an area of motor vehicle surface that is currently receiving water quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater treatment plant is to be modified or removed, the project shall maintain or increase the existing TSS removal of the anticipated load expressed as an annual average.
3. The requirement to reduce TSS does not apply to any stormwater runoff in a discharge regulated under a numeric effluent limitation for TSS imposed under the New Jersey Pollutant Discharge Elimination System (NJPDES) rules, N.J.A.C. 7:14A, or in a discharge specifically exempt under a NJPDES permit from this requirement. Every major development, including any that discharge into a combined sewer system, shall comply with 2 above, unless the major

- development is itself subject to a NJPDES permit with a numeric effluent limitation for TSS or the NJPDES permit to which the major development is subject exempts the development from a numeric effluent limitation for TSS.
4. The water quality design storm is 1.25 inches of rainfall in two hours. Water quality calculations shall take into account the distribution of rain from the water quality design storm, as reflected in Table 4, below. The calculation of the volume of runoff may take into account the implementation of stormwater management measures.

**Table 4 - Water Quality Design Storm Distribution**

| <b>Time<br/>(Minutes)</b> | <b>Cumulative<br/>Rainfall<br/>(Inches)</b> | <b>Time<br/>(Minutes)</b> | <b>Cumulative<br/>Rainfall<br/>(Inches)</b> | <b>Time<br/>(Minutes)</b> | <b>Cumulative<br/>Rainfall<br/>(Inches)</b> |
|---------------------------|---|---------------------------|---|---------------------------|---|
| 1                         | 0.00166                                     | 41                        | 0.1728                                      | 81                        | 1.0906                                      |
| 2                         | 0.00332                                     | 42                        | 0.1796                                      | 82                        | 1.0972                                      |
| 3                         | 0.00498                                     | 43                        | 0.1864                                      | 83                        | 1.1038                                      |
| 4                         | 0.00664                                     | 44                        | 0.1932                                      | 84                        | 1.1104                                      |
| 5                         | 0.00830                                     | 45                        | 0.2000                                      | 85                        | 1.1170                                      |
| 6                         | 0.00996                                     | 46                        | 0.2117                                      | 86                        | 1.1236                                      |
| 7                         | 0.01162                                     | 47                        | 0.2233                                      | 87                        | 1.1302                                      |
| 8                         | 0.01328                                     | 48                        | 0.2350                                      | 88                        | 1.1368                                      |
| 9                         | 0.01494                                     | 49                        | 0.2466                                      | 89                        | 1.1434                                      |
| 10                        | 0.01660                                     | 50                        | 0.2583                                      | 90                        | 1.1500                                      |
| 11                        | 0.01828                                     | 51                        | 0.2783                                      | 91                        | 1.1550                                      |
| 12                        | 0.01996                                     | 52                        | 0.2983                                      | 92                        | 1.1600                                      |
| 13                        | 0.02164                                     | 53                        | 0.3183                                      | 93                        | 1.1650                                      |
| 14                        | 0.02332                                     | 54                        | 0.3383                                      | 94                        | 1.1700                                      |
| 15                        | 0.02500                                     | 55                        | 0.3583                                      | 95                        | 1.1750                                      |
| 16                        | 0.03000                                     | 56                        | 0.4116                                      | 96                        | 1.1800                                      |
| 17                        | 0.03500                                     | 57                        | 0.4650                                      | 97                        | 1.1850                                      |
| 18                        | 0.04000                                     | 58                        | 0.5183                                      | 98                        | 1.1900                                      |
| 19                        | 0.04500                                     | 59                        | 0.5717                                      | 99                        | 1.1950                                      |
| 20                        | 0.05000                                     | 60                        | 0.6250                                      | 100                       | 1.2000                                      |
| 21                        | 0.05500                                     | 61                        | 0.6783                                      | 101                       | 1.2050                                      |
| 22                        | 0.06000                                     | 62                        | 0.7317                                      | 102                       | 1.2100                                      |
| 23                        | 0.06500                                     | 63                        | 0.7850                                      | 103                       | 1.2150                                      |
| 24                        | 0.07000                                     | 64                        | 0.8384                                      | 104                       | 1.2200                                      |
| 25                        | 0.07500                                     | 65                        | 0.8917                                      | 105                       | 1.2250                                      |
| 26                        | 0.08000                                     | 66                        | 0.9117                                      | 106                       | 1.2267                                      |
| 27                        | 0.08500                                     | 67                        | 0.9317                                      | 107                       | 1.2284                                      |
| 28                        | 0.09000                                     | 68                        | 0.9517                                      | 108                       | 1.2300                                      |
| 29                        | 0.09500                                     | 69                        | 0.9717                                      | 109                       | 1.2317                                      |
| 30                        | 0.10000                                     | 70                        | 0.9917                                      | 110                       | 1.2334                                      |
| 31                        | 0.10660                                     | 71                        | 1.0034                                      | 111                       | 1.2351                                      |
| 32                        | 0.11320                                     | 72                        | 1.0150                                      | 112                       | 1.2367                                      |
| 33                        | 0.11980                                     | 73                        | 1.0267                                      | 113                       | 1.2384                                      |
| 34                        | 0.12640                                     | 74                        | 1.0383                                      | 114                       | 1.2400                                      |
| 35                        | 0.13300                                     | 75                        | 1.0500                                      | 115                       | 1.2417                                      |
| 36                        | 0.13960                                     | 76                        | 1.0568                                      | 116                       | 1.2434                                      |
| 37                        | 0.14620                                     | 77                        | 1.0636                                      | 117                       | 1.2450                                      |
| 38                        | 0.15280                                     | 78                        | 1.0704                                      | 118                       | 1.2467                                      |
| 39                        | 0.15940                                     | 79                        | 1.0772                                      | 119                       | 1.2483                                      |
| 40                        | 0.16600                                     | 80                        | 1.0840                                      | 120                       | 1.2500                                      |

5. If more than one BMP in series is necessary to achieve the required 80 percent TSS reduction for a site, the applicant shall utilize the following formula to calculate TSS reduction:

$$R = A + B - (A \times B) / 100,$$

Where

R = total TSS Percent Load Removal from application of both BMPs, and

A = the TSS Percent Removal Rate applicable to the first BMP

B = the TSS Percent Removal Rate applicable to the second BMP.

6. Stormwater management measures shall also be designed to reduce, to the maximum extent feasible, the post-construction nutrient load of the anticipated load from the developed site in stormwater runoff generated from the water quality design storm. In achieving reduction of nutrients to the maximum extent feasible, the design of the site shall include green infrastructure BMPs that optimize nutrient removal while still achieving the performance standards in Section 25-16. 4.P, Q and R.
7. In accordance with the definition of FW1 at N.J.A.C. 7:9B-1.4, stormwater management measures shall be designed to prevent any increase in stormwater runoff to waters classified as FW1.
8. The Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-4.1(c)1 establish 300-foot riparian zones along Category One waters, as designated in the Surface Water Quality Standards at N.J.A.C. 7:9B, and certain upstream tributaries to Category One waters. A person shall not undertake a major development that is located within or discharges into a 300-foot riparian zone without prior authorization from the Department under N.J.A.C. 7:13.
9. Pursuant to the Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-11.2(j)3.i, runoff from the water quality design storm that is discharged within a 300-foot riparian zone shall be treated in accordance with this subsection to reduce the post-construction load of total suspended solids by 95 percent of the anticipated load from the developed site, expressed as an annual average.
10. This stormwater runoff quality standards do not apply to the construction of one individual single-family dwelling, provided that it is not part of a larger development or subdivision that has received preliminary or final site plan approval prior to December 3, 2018, and that the motor vehicle surfaces are made of permeable material(s) such as gravel, dirt, and/or shells.

#### R. Stormwater Runoff Quantity Standards

1. This subsection contains the minimum design and performance standards to control stormwater runoff quantity impacts of major development.
2. In order to control stormwater runoff quantity impacts, the design engineer shall, using the assumptions and factors for stormwater runoff calculations at Section 25-16.5, complete one of the following:
  - a. Demonstrate through hydrologic and hydraulic analysis that for stormwater leaving the site, post-construction runoff hydrographs for

- the 2-, 10-, and 100-year storm events do not exceed, at any point in time, the pre-construction runoff hydrographs for the same storm events;
- b. Demonstrate through hydrologic and hydraulic analysis that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the 2-, 10- and 100-year storm events and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site. This analysis shall include the analysis of impacts of existing land uses and projected land uses assuming full development under existing zoning and land use ordinances in the drainage area;
  - c. Design stormwater management measures so that the post-construction peak runoff rates for the 2-, 10- and 100-year storm events are 50, 75 and 80 percent, respectively, of the pre-construction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed; or
  - d. In tidal flood hazard areas, stormwater runoff quantity analysis in accordance with 2.a, b and c above is required unless the design engineer demonstrates through hydrologic and hydraulic analysis that the increased volume, change in timing, or increased rate of the stormwater runoff, or any combination of the three will not result in additional flood damage below the point of discharge of the major development. No analysis is required if the stormwater is discharged directly into any ocean, bay, inlet, or the reach of any watercourse between its confluence with an ocean, bay, or inlet and downstream of the first water control structure.
3. The stormwater runoff quantity standards shall be applied at the site's boundary to each abutting lot, roadway, watercourse, or receiving storm sewer system.

#### **25-16.5 Calculation of Stormwater Runoff and Groundwater Recharge**

A. Stormwater runoff shall be calculated in accordance with the following:

1. The design engineer shall calculate runoff using one of the following methods:
  - a. The USDA Natural Resources Conservation Service (NRCS) methodology, including the NRCS Runoff Equation and Dimensionless Unit Hydrograph, as described Chapters 7, 9, 10, 15 and 16 Part 630, Hydrology National Engineering Handbook, incorporated herein by reference as amended and supplemented. This methodology is additionally described in Technical Release 55 - Urban Hydrology for Small Watersheds (TR-55), dated June 1986, incorporated herein by reference as amended and supplemented. Information

regarding the methodology is available from the Natural Resources Conservation Service website at:

[https://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb1044171.pdf](https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044171.pdf)

or at United States Department of Agriculture Natural Resources Conservation Service, 220 Davison Avenue, Somerset, New Jersey 08873.

2. For the purpose of calculating runoff coefficients and groundwater recharge, there is a presumption that the pre-construction condition of a site or portion thereof is a wooded land use with good hydrologic condition. The term “runoff coefficient” applies to both the NRCS methodology above at Section 5.A.1.a and the Rational and Modified Rational Methods at Section 5.A.1.b. A runoff coefficient or a groundwater recharge land cover for an existing condition may be used on all or a portion of the site if the design engineer verifies that the hydrologic condition has existed on the site or portion of the site for at least five years without interruption prior to the time of application. If more than one land cover have existed on the site during the five years immediately prior to the time of application, the land cover with the lowest runoff potential shall be used for the computations. In addition, there is the presumption that the site is in good hydrologic condition (if the land use type is pasture, lawn, or park), with good cover (if the land use type is woods), or with good hydrologic condition and conservation treatment (if the land use type is cultivation).
3. In computing pre-construction stormwater runoff, the design engineer shall account for all significant land features and structures, such as ponds, wetlands, depressions, hedgerows, or culverts, that may reduce pre-construction stormwater runoff rates and volumes.
4. In computing stormwater runoff from all design storms, the design engineer shall consider the relative stormwater runoff rates and/or volumes of pervious and impervious surfaces separately to accurately compute the rates and volume of stormwater runoff from the site. To calculate runoff from unconnected impervious cover, urban impervious area modifications as described in the NRCS Technical Release 55 – *Urban Hydrology for Small Watersheds* or other methods may be employed.
5. If the invert of the outlet structure of a stormwater management measure is below the flood hazard design flood elevation as defined at N.J.A.C. 7:13, the design engineer shall take into account the effects of tailwater in the design of structural stormwater management measures.

B. Groundwater Recharge may be calculated in accordance with the following:

1. The New Jersey Geological Survey Report GSR-32, A Method for Evaluating Groundwater-Recharge Areas in New Jersey, incorporated herein by reference as amended and supplemented. Information regarding the methodology is available from

the New Jersey Stormwater Best Management Practices Manual; at the New Jersey Geological Survey website at:

<https://www.nj.gov/dep/njgs/pricelst/gsreport/gsr32.pdf>

or at New Jersey Geological and Water Survey, 29 Arctic Parkway, P.O. Box 420 Mail Code 29-01, Trenton, New Jersey 08625-0420; (609) 984-6587.

C. The precipitation depths of the current two-, 10-, and 100-year storm events shall be determined by multiplying the values determined in accordance with items 1 and 2 below:

1. The applicant shall utilize the National Oceanographic and Atmospheric Administration (NOAA), National Weather Service's Atlas 14 Point Precipitation Frequency Estimates: NJ, in accordance with the location(s) of the drainage area(s) of the site. This data is available at:

[https://hdsc.nws.noaa.gov/hdsc/pfds/pfds\\_map\\_cont.html?bkmrk=nj](https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=nj); and

2. The applicant shall utilize Table 5: Current Precipitation Adjustment Factors below, which sets forth the applicable multiplier for the drainage area(s) of the site, in accordance with the county or counties where the drainage area(s) of the site is located. Where the major development lies in more than one county, the precipitation values shall be adjusted according to the percentage of the drainage area in each county. Alternately, separate rainfall totals can be developed for each county using the values in the table below.

*NOTE: The municipality may instead wish to abbreviate this table along with the text in Item 2 above to reflect only the relevant information, depending on the location of the municipality. The current precipitation adjustment factors added to the ordinance shall be those found in N.J.A.C. 7:8-5.7(c) as Table 5-5.*

**Table 5: Current Precipitation Adjustment Factors**

| County     | Current Precipitation Adjustment Factors |                      |                       |
|------------|--|----------------------|-----------------------|
|            | 2-year Design Storm                      | 10-year Design Storm | 100-year Design Storm |
| Atlantic   | 1.01                                     | 1.02                 | 1.03                  |
| Bergen     | 1.01                                     | 1.03                 | 1.06                  |
| Burlington | 0.99                                     | 1.01                 | 1.04                  |
| Camden     | 1.03                                     | 1.04                 | 1.05                  |
| Cape May   | 1.03                                     | 1.03                 | 1.04                  |
| Cumberland | 1.03                                     | 1.03                 | 1.01                  |
| Essex      | 1.01                                     | 1.03                 | 1.06                  |
| Gloucester | 1.05                                     | 1.06                 | 1.06                  |

|           |      |      |      |
|-----------|------|------|------|
| Hudson    | 1.03 | 1.05 | 1.09 |
| Hunterdon | 1.02 | 1.05 | 1.13 |
| Mercer    | 1.01 | 1.02 | 1.04 |
| Middlesex | 1.00 | 1.01 | 1.03 |
| Monmouth  | 1.00 | 1.01 | 1.02 |
| Morris    | 1.01 | 1.03 | 1.06 |
| Ocean     | 1.00 | 1.01 | 1.03 |
| Passaic   | 1.00 | 1.02 | 1.05 |
| Salem     | 1.02 | 1.03 | 1.03 |
| Somerset  | 1.00 | 1.03 | 1.09 |
| Sussex    | 1.03 | 1.04 | 1.07 |
| Union     | 1.01 | 1.03 | 1.06 |
| Warren    | 1.02 | 1.07 | 1.15 |

D. Table 6: Future Precipitation Change Factors provided below sets forth the change factors to be used in determining the projected two-, 10-, and 100-year storm events for use in this chapter, which are organized alphabetically by county. The precipitation depth of the projected two-, 10-, and 100-year storm events of a site shall be determined by multiplying the precipitation depth of the two-, 10-, and 100-year storm events determined from the National Weather Service’s Atlas 14 Point Precipitation Frequency Estimates pursuant to (c)1 above, by the change factor in the table below, in accordance with the county or counties where the drainage area(s) of the site is located. Where the major development and/or its drainage area lies in more than one county, the precipitation values shall be adjusted according to the percentage of the drainage area in each county. Alternately, separate rainfall totals can be developed for each county using the values in the table below.

*NOTE: The municipality may instead wish to abbreviate this table along with the text in Item D above to reflect only the relevant information, depending on the location of the municipality. The future precipitation change factors added to the ordinance shall be those found in N.J.A.C. 7:8-5.7(d) as Table 5-6.*

**Table 6: Future Precipitation Change Factors**

| County     | Future Precipitation Change Factors |                      |                      |
|------------|-------------------------------------|----------------------|----------------------|
|            | 2-year Design Storm                 | 10-year Design Storm | 10-year Design Storm |
| Atlantic   | 1.22                                | 1.24                 | 1.39                 |
| Bergen     | 1.20                                | 1.23                 | 1.37                 |
| Burlington | 1.17                                | 1.18                 | 1.32                 |
| Camden     | 1.18                                | 1.22                 | 1.39                 |
| Cape May   | 1.21                                | 1.24                 | 1.32                 |



|            |      |      |      |
|------------|------|------|------|
| Cumberland | 1.20 | 1.21 | 1.39 |
| Essex      | 1.19 | 1.22 | 1.33 |
| Gloucester | 1.19 | 1.23 | 1.41 |
| Hudson     | 1.19 | 1.19 | 1.23 |
| Hunterdon  | 1.19 | 1.23 | 1.42 |
| Mercer     | 1.16 | 1.17 | 1.36 |
| Middlesex  | 1.19 | 1.21 | 1.33 |
| Monmouth   | 1.19 | 1.19 | 1.26 |
| Morris     | 1.23 | 1.28 | 1.46 |
| Ocean      | 1.18 | 1.19 | 1.24 |
| Passaic    | 1.21 | 1.27 | 1.50 |
| Salem      | 1.20 | 1.23 | 1.32 |
| Somerset   | 1.19 | 1.24 | 1.48 |
| Sussex     | 1.24 | 1.29 | 1.50 |
| Union      | 1.20 | 1.23 | 1.35 |
| Warren     | 1.20 | 1.25 | 1.37 |

**25-16.6 Sources for Technical Guidance.**

A. Technical guidance for stormwater management measures can be found in the documents listed below, which are available to download from the Department’s website at:

[http://www.nj.gov/dep/stormwater/bmp\\_manual2.htm](http://www.nj.gov/dep/stormwater/bmp_manual2.htm).

1. Guidelines for stormwater management measures are contained in the New Jersey Stormwater Best Management Practices Manual, as amended and supplemented. Information is provided on stormwater management measures such as, but not limited to, those listed in Tables 1, 2, and 3.
2. Additional maintenance guidance is available on the Department’s website at:

[https://www.njstormwater.org/maintenance\\_guidance.htm](https://www.njstormwater.org/maintenance_guidance.htm).

B. Submissions required for review by the Department should be mailed to:

The Division of Watershed Protection and Restoration, New Jersey Department of Environmental Protection, Mail Code 501-02A, PO Box 420, Trenton, New Jersey 08625-0420.

**25-16.7 Solids and Floatable Materials Control Standards:**

A. Site design features identified under Section 25-16.4F above, or alternative designs in

accordance with Section 25-16.4G above, to prevent discharge of trash and debris from drainage systems shall comply with the following standard to control passage of solid and floatable materials through storm drain inlets. For purposes of this paragraph, “solid and floatable materials” means sediment, debris, trash, and other floating, suspended, or settleable solids. For exemptions to this standard see Section 25-16.7A.2 below.

1. Design engineers shall use one of the following grates whenever they use a grate in pavement or another ground surface to collect stormwater from that surface into a storm drain or surface water body under that grate:
  - a. The New Jersey Department of Transportation (NJDOT) bicycle safe grate, which is described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines; or
  - b. A different grate, if each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is no greater than 0.5 inches across the smallest dimension.

Examples of grates subject to this standard include grates in grate inlets, the grate portion (non-curb-opening portion) of combination inlets, grates on storm sewer manholes, ditch grates, trench grates, and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater system floors used to collect stormwater from the surface into a storm drain or surface water body.

- c. For curb-opening inlets, including curb-opening inlets in combination inlets, the clear space in that curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches, or be no greater than two (2.0) inches across the smallest dimension.
2. The standard in A.1. above does not apply:
  - a. Where each individual clear space in the curb opening in existing curb-opening inlet does not have an area of more than nine (9.0) square inches;
  - b. Where the municipality agrees that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;
  - c. Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:
    - i. A rectangular space four and five-eighths (4.625) inches long and one and one-half (1.5) inches wide (this option does not apply for outfall netting facilities); or
    - ii. A bar screen having a bar spacing of 0.5 inches.

Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

- d. Where flows are conveyed through a trash rack that has parallel bars with one-inch (1 inch) spacing between the bars, to the elevation of the Water Quality Design Storm as specified in N.J.A.C. 7:8; or
- e. Where the New Jersey Department of Environmental Protection determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet this standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

#### **25-16.8 Safety Standards for Stormwater Management Basins:**

- A. This section sets forth requirements to protect public safety through the proper design and operation of stormwater management BMPs. This section applies to any new stormwater management BMP.
- B. The provisions of this section are not intended to preempt more stringent municipal or county safety requirements for new or existing stormwater management BMP's. Municipal and county stormwater management plans and ordinances may, pursuant to their authority, require existing stormwater management BMP's to be retrofitted to meet one or more of the safety standards in Section 25-16.8.C.1, .C.2, and C.3 for trash racks, overflow grates, and escape provisions at outlet structures.
- C. Requirements for Trash Racks, Overflow Grates and Escape Provisions
  - 1. A trash rack is a device designed to catch trash and debris and prevent the clogging of outlet structures. Trash racks shall be installed at the intake to the outlet from the Stormwater management BMP to ensure proper functioning of the BMP outlets in accordance with the following:
    - a. The trash rack shall have parallel bars, with no greater than six-inch spacing between the bars;
    - b. The trash rack shall be designed so as not to adversely affect the hydraulic performance of the outlet pipe or structure;
    - c. The average velocity of flow through a clean trash rack is not to exceed 2.5 feet per second under the full range of stage and discharge. Velocity is to be computed on the basis of the net area of opening through the rack; and
    - d. The trash rack shall be constructed of rigid, durable, and corrosion resistant material and designed to withstand a perpendicular live loading of 300 lbs./sq. ft.

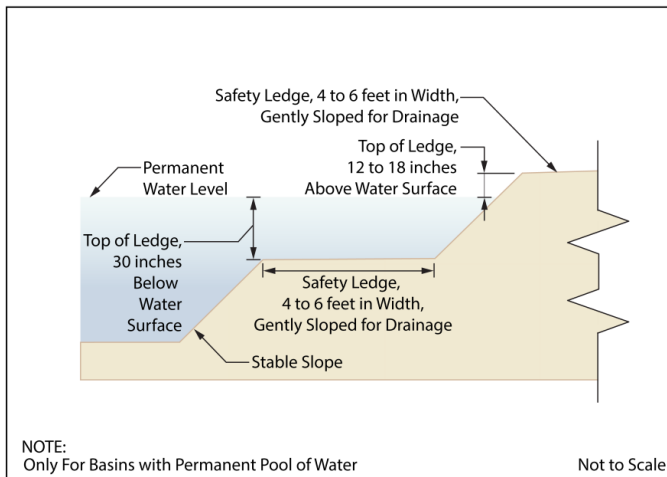
2. An overflow grate is designed to prevent obstruction of the overflow structure. If an outlet structure has an overflow grate, such grate shall meet the following requirements:
  - a. The overflow grate shall be secured to the outlet structure but removable for emergencies and maintenance.
  - b. The overflow grate spacing shall be no less than two inches across the smallest dimension.
  - c. The overflow grate shall be constructed and installed to be rigid, durable, and corrosion resistant, and shall be designed to withstand a perpendicular live loading of 300 lbs./sq. ft.
  
3. Stormwater Management BMP's include escape provisions as follows:
  - a. If a stormwater management BMP has an outlet structure, escape provisions shall be incorporated in or on the structure. Escape provisions include the installation of permanent ladders, steps rungs or other features that provide easily accessible means of egress from stormwater management BMP's. With the prior approval of the municipality pursuant to 25-16.8.C, a free-standing outlet structure may be exempted from this requirement.
  - b. Safety ledges shall be constructed on the slopes of all new stormwater management BMP's having a permanent pool of water deeper than two and one-half feet. Safety ledges shall be comprised of two steps. Each step shall be four to six feet in width. One step shall be located approximately two and one-half feet below the permanent water surface, and the second step shall be located one to one and one-half feet above the permanent water surface. See Section 8.E for an illustration of safety ledges in a stormwater management BMP; and
  - c. In new stormwater management BMP's, the maximum interior slope for an earthen dam, embankment, or berm shall not be steeper than three horizontal to one vertical.

#### D. Variance or Exemption from Safety Standards

1. A variance or exemption from the safety standards for stormwater management BMP's may be granted only upon a written finding by the municipality that the variance or exemption will not constitute a threat to public safety.

#### E. Illustration of Safety Ledges in a New Stormwater Management Basin

Elevation View –Basin Safety Ledge Configuration



## 25-16.9 Requirements for a Site Development Stormwater Plan.

### A. Submission of Site Development Stormwater Plan.

1. Whenever an applicant seeks municipal approval of a site development that is subject to this ordinance, the applicant shall submit all of the required components of the Checklist for the Site Development Stormwater Plan at Section 25-16.9C below as part of the applicant's application for subdivision or site plan approval. These required components are in addition to any other information required under any provisions of the Borough's land use ordinance or by the Pinelands Commission pursuant to N.J.A.C. 7:50-1.1 et seq.
2. The applicant shall demonstrate that the site development project meets the standards set forth in this ordinance.
3. The applicant shall submit three (3) copies of the materials listed in the checklist for site development stormwater plans in accordance with Section 25-16.9C of this ordinance.

### B. Site Development Stormwater Plan Approval.

The applicant's site development project shall be reviewed as a part of the subdivision or site plan review process by the municipal board or official from which municipal approval is sought. That municipal board or official shall consult the engineer retained by the Land Use Board to determine if all of the checklist requirements have been satisfied and to determine if the project meets the standards set forth in this ordinance.

### C. Submission of the Site Development Stormwater Plan.

The following information shall be required:

#### 1. Topographic Base Map

The reviewing engineer may require upstream tributary drainage system information as necessary. It is recommended that the topographic base map of the site be submitted which extends a minimum of 200 feet beyond the limits of the proposed development, at a scale of 1"=200' or greater, showing 2-foot contour intervals. The

map as appropriate may indicate the following: existing surface water drainage, shorelines, steep slopes, soils, erodible soils, perennial or intermittent streams that drain into or upstream of the Category One waters, wetlands and flood plains along with their appropriate buffer strips, marshlands and other wetlands, pervious or vegetative surfaces, existing man-made structures, roads, bearing and distances of property lines, and significant natural and manmade features not otherwise shown.

## 2. Environmental Site Analysis

A written and graphic description of the natural and man-made features of the site and its surroundings should be submitted. This description should include a discussion of soil conditions, slopes, wetlands, waterways and vegetation on the site. Particular attention should be given to unique, unusual, or environmentally sensitive features and to those that provide particular opportunities or constraints for development.

## 3. Project Description and Site Plans

A map (or maps) at the scale of the topographical base map indicating the location of existing and proposed buildings roads, parking areas, utilities, structural facilities for stormwater management and sediment control, and other permanent structures. The map(s) shall also clearly show areas where alterations will occur in the natural terrain and cover, including lawns and other landscaping, and seasonal high groundwater elevations. A written description of the site plan and justification for proposed changes in natural conditions shall also be provided.

## 4. Land Use Planning and Source Control Plan

This plan shall provide a demonstration of how the goals and standards of Sections III through V are being met. The focus of this plan shall be to describe how the site is being developed to meet the objective of controlling groundwater recharge, stormwater quality and stormwater quantity problems at the source by land management and source controls whenever possible.

## 5. Stormwater Management Facilities Map

The following information, illustrated on a map of the same scale as the topographic base map, shall be included:

- a. Total area to be disturbed, paved or built upon, proposed surface contours, land area to be occupied by the stormwater management facilities and the type of vegetation thereon, and details of the proposed plan to control and dispose of stormwater.
- b. Details of all stormwater management facility designs, during and after construction, including discharge provisions, discharge capacity for each outlet at different levels of detention and emergency spillway provisions with maximum discharge capacity of each spillway.

## 6. Calculations

- a. Comprehensive hydrologic and hydraulic design calculations for the pre-development and post-development conditions for the design storms specified in Section IV of this ordinance.
- b. When the proposed stormwater management control measures depend on the hydrologic properties of soils or require certain separation from the seasonal high water table, then a soils report shall be submitted. The soils report shall be based on onsite boring logs or soil pit profiles. The number and location of required soil borings or soil pits shall be determined based on what is needed to determine the suitability and distribution of soils present at the location of the control measure.

## 7. Maintenance and Repair Plan

The design and planning of the stormwater management facility shall meet the maintenance requirements of Section X.

## 8. Waiver from Submission Requirements

The municipal official or board reviewing an application under this ordinance may, in consultation with the municipality's review engineer, waive submission of any of the requirements in Section IX.C.1 through IX.C.6 of this ordinance when it can be demonstrated that the information requested is impossible to obtain or it would create a hardship on the applicant to obtain and its absence will not materially affect the review process.

## **25-16.10 Maintenance and Repair**

### A. Applicability

1. Projects subject to review as in Section 1.C of this ordinance shall comply with the requirements of Section 10.B and 10.C.

### B. General Maintenance

1. The design engineer shall prepare a maintenance plan for the stormwater management measures incorporated into the design of a major development.
2. The maintenance plan shall contain specific preventative maintenance tasks and schedules; cost estimates, including estimated cost of sediment, debris, or trash removal; and the name, address, and telephone number of the person or persons responsible for preventative and corrective maintenance (including replacement). The plan shall contain information on BMP location, design, ownership, maintenance tasks and frequencies, and other details as specified in Chapter 8 of the NJ BMP Manual, as well as the tasks specific to the type of basin, as described in the applicable chapter containing design specifics.
3. If the maintenance plan identifies a person other than the property owner (for example, a developer, a public agency or homeowners' association) as having the responsibility for maintenance, the plan shall include documentation of such person's or entity's agreement

to assume this responsibility, or of the owner's obligation to dedicate a stormwater management facility to such person under an applicable ordinance or regulation.

4. Responsibility for maintenance shall not be assigned or transferred to the owner or tenant of an individual property in a residential development or project, unless such owner or tenant owns or leases the entire residential development or project. The individual property owner may be assigned incidental tasks, such as weeding of a green infrastructure BMP, provided the individual agrees to assume these tasks; however, the individual cannot be legally responsible for all of the maintenance required.
5. If the party responsible for maintenance identified under Section 10.B.3 above is not a public agency, the maintenance plan and any future revisions based on Section 10.B.7 below shall be recorded upon the deed of record for each property on which the maintenance described in the maintenance plan must be undertaken.
6. Preventative and corrective maintenance shall be performed to maintain the functional parameters (storage volume, infiltration rates, inflow/outflow capacity, etc.) of the stormwater management measure, including, but not limited to, repairs or replacement to the structure; removal of sediment, debris, or trash; restoration of eroded areas; snow and ice removal; fence repair or replacement; restoration of vegetation; and repair or replacement of non-vegetated linings.
7. The party responsible for maintenance identified under Section 10.B.3 above shall perform all of the following requirements:
  - a. maintain a detailed log of all preventative and corrective maintenance for the structural stormwater management measures incorporated into the design of the development, including a record of all inspections and copies of all maintenance-related work orders;
  - b. evaluate the effectiveness of the maintenance plan at least once per year and adjust the plan and the deed as needed; and
  - c. retain and make available, upon request by any public entity with administrative, health, environmental, or safety authority over the site, the maintenance plan and the documentation required by Section 10.B.6 and B.7 above.
8. The requirements of Section 10.B.3 and B.4 do not apply to stormwater management facilities that are dedicated to and accepted by the municipality or another governmental agency, subject to all applicable municipal stormwater general permit conditions, as issued by the Department.

*Note: It may be appropriate to delete requirements in the maintenance and repair plan that are not applicable if the ordinance requires the facility to be dedicated to the municipality. If the municipality does not want to take this responsibility, the ordinance should require the posting of a two year maintenance guarantee in accordance with N.J.S.A. 40:55D-53. Maintenance and inspection guidance can be found on the Department's website at:*

<https://dep.nj.gov/stormwater/maintenance-guidance/>.

9. In the event that the stormwater management facility becomes a danger to public safety or public health, or if it is in need of maintenance or repair, the municipality shall so notify the responsible person in writing. Upon receipt of that notice, the responsible person shall have fourteen (14) days to effect maintenance and repair of the facility in a manner that is



approved by the municipal engineer or his designee. The municipality, in its discretion, may extend the time allowed for effecting maintenance and repair for good cause. If the responsible person fails or refuses to perform such maintenance and repair, the municipality or County may immediately proceed to do so and shall bill the cost thereof to the responsible person. Nonpayment of such bill may result in a lien on the property.

C. Nothing in this subsection shall preclude the municipality in which the major development is located from requiring the posting of a performance or maintenance guarantee in accordance with N.J.S.A. 40:55D-53

**25-16.11 Penalties.**

Any person(s) who erects, constructs, alters, repairs, converts, maintains, or uses any building, structure or land in violation of this ordinance shall be subject to the following penalties:

1. A fine not less than \$500.00 and not to exceed \$1,250.00. or
2. Imprisonment up to 90 days in the County Jail.

**25-16.12 Severability.**

Each section, subsection, sentence, clause and phrase of this Ordinance is declared to be an independent section, subsection, sentence, clause and phrase, and the finding or holding of any such portion of this Ordinance to be unconstitutional, void, or ineffective for any cause, or reason, shall not affect any other portion of this Ordinance.

**25-16.13 Effective Date.**

This Ordinance shall take effect immediately upon the approval by the county review agency, or sixty (60) days from the receipt of the ordinance by the county review agency if the county review agency should fail to act, and publication as required by law.

**SECTION 2:** All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

**SECTION 3:** If any section, subsection, sentence, clause, phrase of portion of this ordinance is for any reason held to be invalid or unconstitutional by a court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent provision, and such holding shall not affect the validity of the remaining portions hereof.

---

Hon. Harry Robbins  
Mayor

**NOTICE IS HEREBY GIVEN** that the foregoing ordinance was introduced and passed on first reading at the regular meeting of the governing body of the Borough of Lakehurst, County of Ocean, and State of New Jersey, held on the twentieth day of June 2024 and that said ordinance will be considered for final passage at the meeting of said governing body to be held at the Community Center, 207 Center Street, Lakehurst, New Jersey on the fifteenth day of August 2024 at 7:30 p.m. or as soon thereafter as said matter may be reached, at which time and place any person desiring to be heard shall be given an opportunity to be so heard.

---

Maryanne Capasso, RMC  
Municipal Clerk

**ORDINANCE  
2024-03**

**AN ORDINANCE OF THE BOROUGH OF LAKEHURST, COUNTY OF OCEAN, STATE OF NEW JERSEY, FIXING AND DETERMINING THE AMOUNT OF SALARIES AND WAGES FOR CERTAIN EMPLOYEES AND OFFICIALS IN THE BOROUGH OF LAKEHURST, IN THE COUNTY OF OCEAN, AND STATE OF NEW JERSEY**

**BE IT ORDAINED** by the Mayor and Council of the Borough of Lakehurst, County of Ocean, State of New Jersey, as follows:

**SECTION 1:** The base salaries and wages of the following employees of this Borough shall be as follows:

| <b><u>POSITION :</u></b>       | <b>NON-CONTRACTUAL</b>              |                                     |
|--------------------------------|-------------------------------------|-------------------------------------|
|                                | <b><u>MINIMUM:</u></b><br>Per annum | <b><u>MAXIMUM:</u></b><br>Per annum |
| Employee Benefits Clerk        | \$ 4,000.00                         | \$ 8,000.00                         |
| Water and Sewer Superintendent | \$ 67,500.00                        | \$ 110,000.00                       |

**SECTION 2:** All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

**SECTION 3:** If any section, subsection, sentence, clause, phrase, or portion of this Ordinance is for any reason held invalid or unconstitutional by a Court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions hereof.

**SECTION 4:** This ordinance shall take effect after second reading and publication as required by law.

---

Hon. Harry Robbins  
Mayor

**NOTICE**

**NOTICE IS HEREBY GIVEN** that an ordinance #2024-03 entitled:  
“AN ORDINANCE OF THE BOROUGH OF LAKEHURST, COUNTY OF OCEAN, STATE OF NEW JERSEY, FIXING AND DETERMINING THE AMOUNT OF SALARIES AND WAGES FOR CERTAIN EMPLOYEES AND OFFICIALS IN THE BOROUGH OF LAKEHURST, IN THE COUNTY OF OCEAN, AND STATE OF NEW

JERSEY” (#2024-03) was finally adopted after a public hearing and Council approval at a meeting of the governing body held on the twentieth day of June 20, 2024.

---

Amy Lowe, RMC  
Deputy Municipal Clerk

BOROUGH OF LAKEHURST - COUNTY OF OCEAN  
ORDINANCE 2024-04

-----  
ORDINANCE OF THE BOROUGH OF LAKEHURST, IN THE COUNTY OF OCEAN, STATE OF NEW JERSEY, AUTHORIZING THE ACQUISITION OF UTILITY EQUIPMENT AND TO APPROPRIATE THE SUM OF \$92,000 TO PAY THE COST THEREOF, FULLY FUNDED BY THE CAPITAL IMPROVEMENT FUND  
-----

BE IT ORDAINED BY THE BOROUGH COUNCIL OF THE BOROUGH OF LAKEHURST, IN THE COUNTY OF OCEAN, NEW JERSEY (not less than two thirds of all members thereof affirmatively concurring) AS FOLLOWS:

Section 1. The Borough of Lakehurst, in the County of Ocean, State of New Jersey (the "Borough") is hereby authorized to undertake the acquisition of a utility vehicle, a front-loading tractor, and related equipment.

Sections 2. The sum of \$92,000 is hereby appropriated to the payment of the cost of the improvements authorized and described in Section 1 hereof (hereinafter referred to as "purpose"). Said appropriation shall be fully funded by the Capital Improvement Fund. The sum of \$92,000 is hereby appropriated from the Capital Improvement Fund for the payment of the cost of said purpose.

Section 3. The period of usefulness of the Improvements referred to in Section 2, within the limitations of the Local Bond Law and according to the reasonable life thereof, is not less than five years.

Section 4. The capital budget of the Borough of Lakehurst is hereby amended to conform with the provisions of this ordinance to the extent of any inconsistency herewith. The resolution in the form promulgated by the Local Finance Board showing full detail of the amended capital budget and capital program as approved by the Director of the Division of Local Government Services is on file with the Clerk and is available there for public inspection.

Section 5. The improvements authorized hereby are not current expenses and are general improvements the Borough may lawfully make. No part of the cost of the Improvements authorized hereby has been or shall be specially assessed on any property specially benefited thereby.

Section 6. All ordinances or parts of ordinances, inconsistent herewith are hereby repealed to the extent of such inconsistency.

Section 7. This bond ordinance shall take effect twenty days after the first publication thereof after final adoption, as provided by the Local Bond Law.

\_\_\_\_\_  
Hon. Harry Robbins  
Mayor

**NOTICE**

**NOTICE IS HEREBY GIVEN** that an ordinance #2024-04 entitled: “AN ORDINANCE OF THE BOROUGH OF LAKEHURST, IN THE COUNTY OF OCEAN, STATE OF NEW JERSEY, AUTHORIZING THE ACQUISITION OF UTILITY EQUIPMENT AND TO APPROPRIATE THE SUM OF \$92,000 TO PAY THE COST THEREOF, FULLY FUNDED BY THE CAPITAL IMPROVEMENT FUND” (#2024-04) was finally adopted after a public hearing and Council approval at a meeting of the governing body held on the twentieth day of June, 2024.

---

Maryanne Capasso  
Municipal Clerk