

Project Information Form - Annual BMP Maintenance Certification

A. General Information: (Fill out ALL information) PLEASE COMPLETE ALL BOXES – LEAVE NOTHING BLANK!

Current Project Names: Glennstone Ph 3 DP1, DP3, DP4, and DP5	Previous Project Names (if applicable): Click here to enter a prior project name.
Legal Owner of Record/Permittee: Glennstone HOA Address: 3601 Glennstone Drive, Durham, NC Contact Name: C/o Thomas Whisnat (TRAC Management, LLC) Telephone Number: 919/612-5296 Email address: tom@tracmanagement.com	Site Contact Entity: (Owner, Management Company, or HOA) Thomas Whisnat Address: TRAC Management, LLC: PO Box 3674, Chapel Hill, NC 27515 Contact Name: Thomas Whisnat Telephone Number: 919/612-5296 Email address: tom@tracmanagement.com
Name of Inspection Company: SME, PLLC	Mailing Address of Inspection Company: 400 Laurel Springs Drive #415, Durham, NC 27713

B. Project SCM Information. Use separate Inspection Checklist for each SCM.

Device Type	# of SCMs per Site	Facility ID(s)	Additional Description, as needed
<i>Ex. Underground Detention</i>	2	00519, 00638	Click to enter text.
<i>Dry Detention Basin/Dry Extended Detention Basin</i>	4	00237, 004110, 00411, 00412	
<i>Click to Select a BMP</i>	Select #	Click to enter text.	Click to enter text.
<i>Click to Select a BMP</i>	Select #	Click to enter text.	Click to enter text.
<i>Click to Select a BMP</i>	Select #	Click to enter text.	Click to enter text.

C. Submitted Under Cover (check all that apply) Inspection Checklist(s) O&M Manual Implementation Schedule

D. BMP Maintenance Certifiers (BMC) Information

BMC Name: Dave Brown
 Address: SME, PLLC: 400 Laurel Springs Drive #415, Durham, NC 27713
 Telephone Number: 919/973-0715
 Email address: dhb.smetmat@gmail.com
 NCPE / NCRLA (Circle one) # NCPE #031933
 Durham BMC # 2011003

Affix Seal and Sign Below



Dry Extended Detention Basin Checklist for Annual SCM Maintenance Certification City of Durham, North Carolina

Facility ID: <input style="width: 90%;" type="text" value="0411"/>	Date <input style="width: 90%;" type="text" value="Jan 9, 2026"/>
SCM Site/Project Name: <input style="width: 95%;" type="text" value="Glennstone Ph3 DP4"/>	

Important Note: It shall be noted that the items included in this inspection checklist are not an exhaustive list of inspection items for any particular facility. As each facility is different, the City looks to the professional inspecting the facility to perform a comprehensive inspection of the facility and list all items found during the inspection on the inspection checklist, even though all may not be listed on this checklist to begin with.

Checklist Status Codes

Fully Functional (No Problems Found) = Pass for Inspection
Minor Functional Issues, However Pass for Inspection **Refer to checklist status code notes below*
Partially Functional (Repairs Needed) = Fail the Inspection
Not Functional (Repairs Needed) = Fail the Inspection
Monitor **Refer to checklist status code notes below*
Not Applicable

***Checklist Status Code Notes:**

1. *Minor Functional Issues (MFIs) shall be corrected during routine maintenance throughout the year. In addition, BMCs shall revise the facility's operation and maintenance (O&M) manual accordingly to address each MFI. BMCs shall verify whether each MFI was resolved during subsequent annual inspections and indicate results on next year's annual inspections report.*
2. *For items checked Monitor, BMCs shall revise the facility's O&M manual with frequency of monitoring needed and include actions to be taken (if any). Please describe in the additional comments section, as needed.*

Assessment	Status	Comments
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INFLOW POINTS

Obstruction: vegetation/debris/sediment	Minor Functional Issues	Repair SE inlet channel with step pools (see ACIN).
Erosion/undercutting	Fully Functional	
Displacement/blockage of inlet or rip-rap, aprons, fabric, etc.	Minor Functional Issues	Repair SE inlet channel with step pools (see ACIN).
Pipe condition	Fully Functional	
Other (describe)	Not Applicable	

FOREBAY (AS APPLICABLE)

Sediment/debris accumulation	Not Applicable	
Bare soil/erosion on side slopes	Not Applicable	
Invasive vegetation	Not Applicable	
Other (describe)	Not Applicable	

Dry Extended Detention Basin Checklist for Annual SCM Maintenance Certification City of Durham, North Carolina

Facility ID: <input style="width: 200px;" type="text" value="0411"/>	Date: <input style="width: 150px;" type="text" value="Jan 9, 2026"/>
SCM Site/Project Name: <input style="width: 700px;" type="text" value="Glennstone Ph3 DP4"/>	

Assessment	Status	Comments
MAIN TREATMENT AREA		
Standing water (>5-days after storm). <i>Check the design drawdown time if applicable</i>	Fully Functional	
Sediment/debris accumulation	Fully Functional	
Bare soil/erosion on side slopes	Minor Functional Issues	Establish healthy grass cover prior to 2026 certification.
Invasive vegetation	Minor Functional Issues	Remove trees and manage cattails in the winter months.
Side slopes maintained as mowed/covered	Minor Functional Issues	Establish healthy grass cover prior to 2026 certification.
Emergency spillway properly armored and free of woody vegetation	Fully Functional	
Other (describe)	Not Applicable	
EMBANKMENT		
<i>* Note: Ideally shrubs/trees should not exist on an earthen embankment dam. However, if greater than 6" diameter breast height; they should not be removed unless approved by Stormwater Services staff. Approval from Stormwater Services shall be required prior to any application of herbicide or other chemical application.</i>		
Bare soil, erosion, loss of dam material	Minor Functional Issues	Establish healthy grass cover prior to 2026 certification.
Shrubs/trees present <6" diameter breast height	Fully Functional	
Animal burrows	Fully Functional	
Grass cover is eroding/unhealthy	Minor Functional Issues	Establish healthy grass cover prior to 2026 certification.
Signs of seepage on downstream face	Fully Functional	
Signs of structural failure: i.e; horizontal/vertical cracks	Fully Functional	

Dry Extended Detention Basin Checklist for Annual SCM Maintenance Certification City of Durham, North Carolina

Facility ID:	0411	Date	Jan 9, 2026
SCM Site/Project Name:	Glennstone Ph3 DP4		

Assessment	Status	Comments
EMBANKMENT/DAM (CONTINUED)		
<i>* Note: Ideally shrubs/trees should not exist on an earthen embankment dam. However, if greater than 6" diameter breast height; they should not be removed unless approved by Stormwater Services staff. Approval from Stormwater Services shall be required prior to any application of herbicide or other chemical application.</i>		
Upslope, top, and downslope maintained as mowed	Fully Functional	
Overall structural condition	Fully Functional	
Other (describe)	Minor Functional Issues	Establish healthy grass cover prior to 2026 certification.
OUTLET DEVICE		
Obstructed pipe, trash rack, or draw-down orifice	Fully Functional	
Erosion/undercutting	Fully Functional	
Joint failure/loss of joint material, soil piping	Fully Functional	
Overall structural condition	Fully Functional	
Sediment in pipe	Fully Functional	
Displacement/blockage of outlet or rip-rap, aprons, fabric, etc.	Fully Functional	
MISCELLANEOUS		
Trash/debris	Fully Functional	
Access	Fully Functional	
Evidence of routine maintenance	Fully Functional	
Other (describe)	Not Applicable	

Dry Extended Detention Basin Checklist for Annual SCM Maintenance Certification City of Durham, North Carolina

Facility ID: <input style="width: 90%;" type="text" value="0411"/>	Date <input style="width: 90%;" type="text" value="Jan 9, 2026"/>
SCM Site/Project Name: <input style="width: 95%;" type="text" value="Glennstone Ph3 DP4"/>	

PHOTOGRAPHS: Attach low-resolution (500KB or less), digital color photographs of the site and SCM features. Include captions describing the photographs.

<i>Click above to add photo</i>	<i>Click above to add photo</i>
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Photo 1: <input style="width: 95%;" type="text" value="See attached ACIN."/>	Photo 2: <input style="width: 95%;" type="text"/>
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<i>Click above to add photo</i>	<i>Click above to add photo</i>
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Photo 3: <input style="width: 95%;" type="text"/>	Photo 4: <input style="width: 95%;" type="text"/>
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Dry Extended Detention Basin Checklist for Annual SCM Maintenance Certification City of Durham, North Carolina

Facility ID:	<input type="text" value="0411"/>	Date	<input type="text" value="Jan 9, 2026"/>
SCM Site/Project Name:	<input type="text" value="Glennstone Ph3 DP4"/>		

INSPECTION RESULTS

The results of this inspection are as follows:

PASS / CERTIFIED
CHECK APPLICABLE BOX: IF THIS IS AFTER AN ENGINEERING MODIFICATION REPORT OR INITIAL FAILURE
INSPECTION FOUND NO PROBLEMS, AS IT RELATES TO THE FUNCTIONALITY OR PUBLIC SAFETY ASPECTS OF THE FACILITY.

PASS / CERTIFIED / MINOR ISSUES WHICH CAN BE CORRECTED THROUGH ROUTINE YEAR ROUND MAINTENANCE
INSPECTION FOUND MINOR PROBLEMS THAT ARE NOT HAVING AN IMPACT ON THE CURRENT FUNCTIONALITY OR PUBLIC SAFETY ASPECTS OF THE FACILITY. HOWEVER, LEAVING UNADDRESSED THESE PROBLEMS WILL IMPAIR THE DEVICE'S LONG TERM FUNCTIONALITY. MINOR PROBLEMS SHALL BE NOTED IN THE O&M MANUAL AS SUCH, MUST BE ADDRESSED THROUGH ROUTINE MAINTENANCE, AND VERIFIED AT THE NEXT ANNUAL INSPECTION.

FAIL (REPAIRS CAN BE COMPLETED WITHIN 90 DAYS)
INSPECTION FOUND APARENT PROBLEMS WHICH NEED IMMEDIATE ATTENTION. COMPLETE THE REPAIR AND/OR MAINTENANCE ITEMS INDICATED IN THE SEALED IMPLEMENTATION SCHEDULE WITHIN 90 DAYS OF THE DATE OF THIS REPORT. RE-INSPECTION AND CERTIFICATION PRIOR TO OR AT THE 90 DAY INTERVAL WILL FOLLOW SATISFACTORY COMPLETION OF ALL REPAIRS AND MAINTENANCE. REPORTS NOT RECEIVED AFTER 90 DAYS WILL AUTOMATICALLY DEFAULT INTO ENFORCEMENT ACTIONS.

FAIL (REPAIRS CANNOT BE COMPLETED WITHIN 90 DAYS - EMR REQUIRED)
INSPECTION FOUND THAT THE FACILITY WAS NOT COMPLETED, OR WAS "COMPLETED" IN A MANNER THAT SIGNIFICANTLY DIFFERS (NEGATIVELY) FROM THAT DETAILED IN THE ORIGINAL DESIGN PLANS, OR IS IN SUCH A STATE OF DISREPAIR OR FUNCTIONAL FAILURE THAT A CERTIFICATION CANNOT BE REASONABLY PROVIDED WITHIN 90 DAYS FROM THE DATE OF THE INSPECTION. SUBMIT ENGINEERING MODIFICATION REPORT (EMR) PER REQUIREMENTS FOUND AT:
[HTTP://DURHAMNC.GOV/ICH/OP/PWD/STORM/PAGES/BMP-ANNUAL-MAINTENANCE-CERTIFICATION-AND-AS-BUILT-CERTIFICATION-PROGRAMS.ASPX](http://DURHAMNC.GOV/ICH/OP/PWD/STORM/PAGES/BMP-ANNUAL-MAINTENANCE-CERTIFICATION-AND-AS-BUILT-CERTIFICATION-PROGRAMS.ASPX)

Certification:

Based upon my inspection of this constructed SCM facility on , I hereby certify that the facility's functional and public safety aspects are (CHECK ONE ONLY) **IN COMPLIANCE** **NOT IN COMPLIANCE** with the original or most recent approved design plans, and the City of Durham's operation and maintenance standards.

Seal/Signature

Inspection by:
Click area above to attach digital signature



Glennstone Phase 3 Dry Pond 4

(City of Durham ID# 00237)

Annual Inspection Narrative (2025 ACIN)

Client Contact Info:

Glennstone HOA
c/o Tom Whisnant
TRAC Management, LLC
PO Box 3674, Chapel Hill, NC 27515
Email: Tom@TRACManagement.com
Phone: 919/612-5296

2026-01-09

January 2026

Note: 2025 Annual Certification.



STORMWATER
MANAGEMENT ENGINEERING

RESTORATION + BALANCE IS KEY

Reimagining How Stormwater Is Managed

Stormwater Management Engineering, PLLC
400 Laurel Springs Drive #415, Durham, NC 27713
Ph: 919/973-0715 E-mail: dave@stormwaterme.net
www.stormwaterme.net

Cover Sheet

The 2021 Glennstone SCM Arrangement

All four SCMs were inspected on October 28, 2021. Unfortunately, the work that was done in the Fall 2020 and the Spring 2021 had unraveled. At an onsite meeting with City staff, the following guidance was provided:

1/By December 22, 2021, revise and resubmit all inspection reports. In the reports all MFIs (except the grass establishment items) are to be recoded as PFIs. The grass establishment items are to be coded as MFIs. Areas where active erosion is occurring are to be coded as PFIs.

COMPLETE

2/By March 15, 2022, submit passing reports for all four SCMs. Included with the reports is to be a signed contract with a reputable vendor for routine maintenance at all 4 Dry Ponds. The contract must specify the exact tasks and their frequency. The contract must also specify the grass establishment efforts to be undertaken.

COMPLETE

Glennstone Ph3 DP4 ACIN

Stormwater Management Engineering, PLLC
400 Laurel Springs Drive #415 Durham, NC 27713 Ph:
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Note 2: Grass establishment is to be certified at all four SCMs in accordance with the following extended schedule:

- DP1 by October 2022 COMPLETE
- DP3 by October 2023 COMPLETE
- DP4 by October 2024 Delayed to 2026 See Note Below
- DP5 by October 2025 Delayed to 2026 See Note Below

Until grass is established, outstanding grass establishment issues will be coded as MFIs. These grass establishment items are identified on the purple slides in this report.

Note: The completion of the significant repairs at both DP4 and DP5 will be accomplished by October 2026. The community ran out of money and is working to acquire loans to complete the work. Signed contracts for the repair work will be provided to Durham by March 1, 2026.

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Note 3: As indicated by the City, “If [any of the above requirements are] not met, the owners will be out of compliance and subject to enforcement action. Also, if the owners fail to continue with the routine maintenance specified in the contract or in the grass establishment timetable, the SCMs will be considered non-compliant and subject to enforcement action.”

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BERM PERMANENT SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
APR 1 - MAY 31	1/3 FESCUE 2/3 BERMUDGRASS	50 LBS/AC
MAY 1 - JUNE 30	1/3 FESCUE 2/3 BERMUDGRASS	50 LBS/AC

SOIL AMENDMENTS
 1. 2" TOP SOIL TO BE APPLIED TO THE TOP OF ALL UP AND DOWN SLOPES.
 2. 2" TOP SOIL TO BE APPLIED TO THE TOP OF ALL FLATS AND LEVEL AREAS.
 3. 2" TOP SOIL TO BE APPLIED TO THE TOP OF ALL CURBS AND RISES.

MAINTENANCE
 1. ALL AREAS TO BE MAINTAINED FREE OF WEEDS AND UNDESIRABLE PLANTS.
 2. ALL AREAS TO BE MAINTAINED FREE OF LITTER AND DEBRIS.
 3. ALL AREAS TO BE MAINTAINED FREE OF OBSTRUCTIONS TO WATER FLOW.

BERM TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
APR 1 - MAY 31	1/3 FESCUE 2/3 BERMUDGRASS	50 LBS/AC
MAY 1 - JUNE 30	1/3 FESCUE 2/3 BERMUDGRASS	50 LBS/AC

SOIL AMENDMENTS
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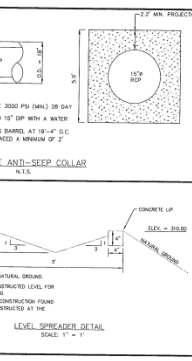
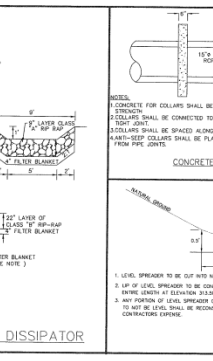
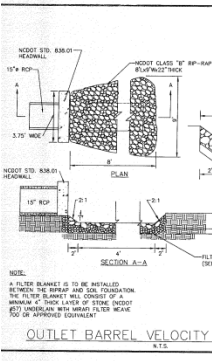
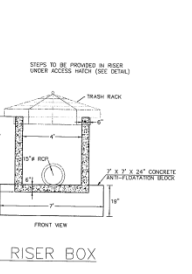
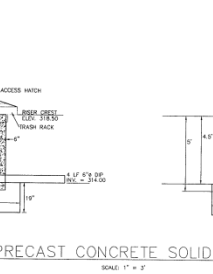
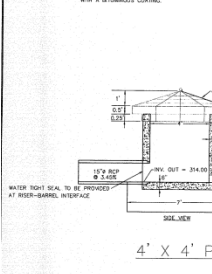
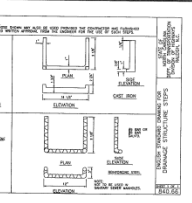
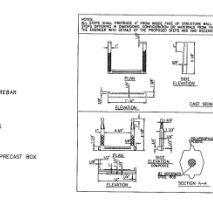
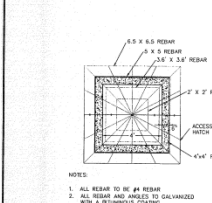
MAINTENANCE
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 2. ALL AREAS TO BE MAINTAINED FREE OF LITTER AND DEBRIS.
 3. ALL AREAS TO BE MAINTAINED FREE OF OBSTRUCTIONS TO WATER FLOW.

BERM SEEDING PREPARATION

1. ALL AREAS TO BE SEEDING SHALL BE PREPARED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
2. ALL AREAS TO BE SEEDING SHALL BE PREPARED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
3. ALL AREAS TO BE SEEDING SHALL BE PREPARED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
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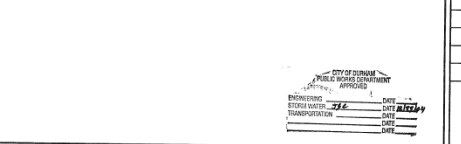
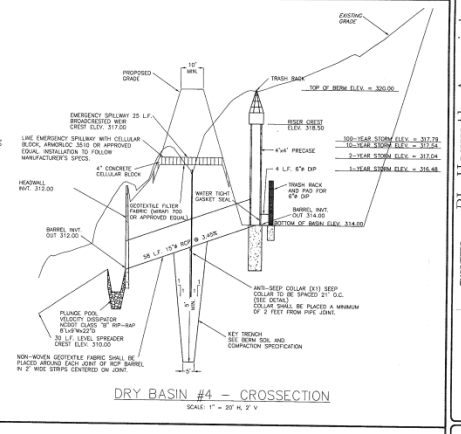
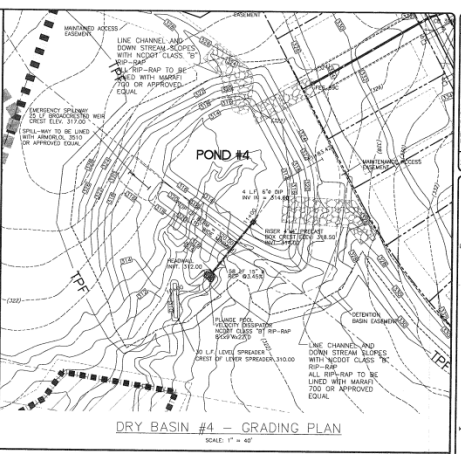
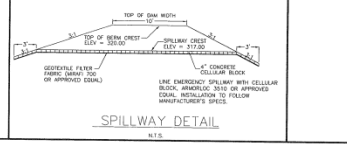
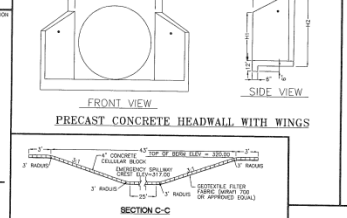
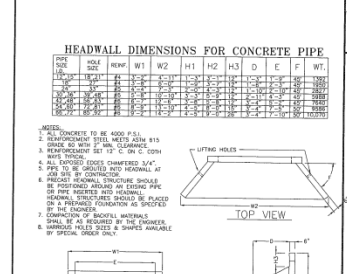
GENERAL NOTES:

1. THE DESIGN OF THE DETENTION BASIN AND LEVEL SPREADER SYSTEM IS SUBJECT TO AS-BUILT INSPECTION AND RECORDATION BY THE CONTRACTOR'S EMPLOYEE.
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HEADWALL DIMENSIONS FOR CONCRETE PIPE

PIPE SIZE	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20
18\"/>																				



PLANNERS
 RLH
 R.L. HORWATH ASSOCIATES, INC.
 15 CONSULTANT STREET SUITE 2000 DURHAM, NC 27707 P.O. BOX 1808 DURHAM, NC 27702-1808 FAX 919-480-7803

ENGINEERS
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 15 CONSULTANT STREET SUITE 2000 DURHAM, NC 27707 P.O. BOX 1808 DURHAM, NC 27702-1808 FAX 919-480-7803

DETENTION BASIN #4 PLAN

GLENNSTONE PHASE III
 GLENN ROAD
 DURHAM, NORTH CAROLINA

DATE
 6/24/04

SCALE
 1\"/>

NO. SHEETS
 9995

SHEET NO.
 C147

CITY OF DURHAM PUBLIC WORKS DEPARTMENT APPROVED

DATE
 6/24/04

ENGINEER
 R.L. HORWATH

DATE
 6/24/04

TRANSPORTATION
 R.L. HORWATH

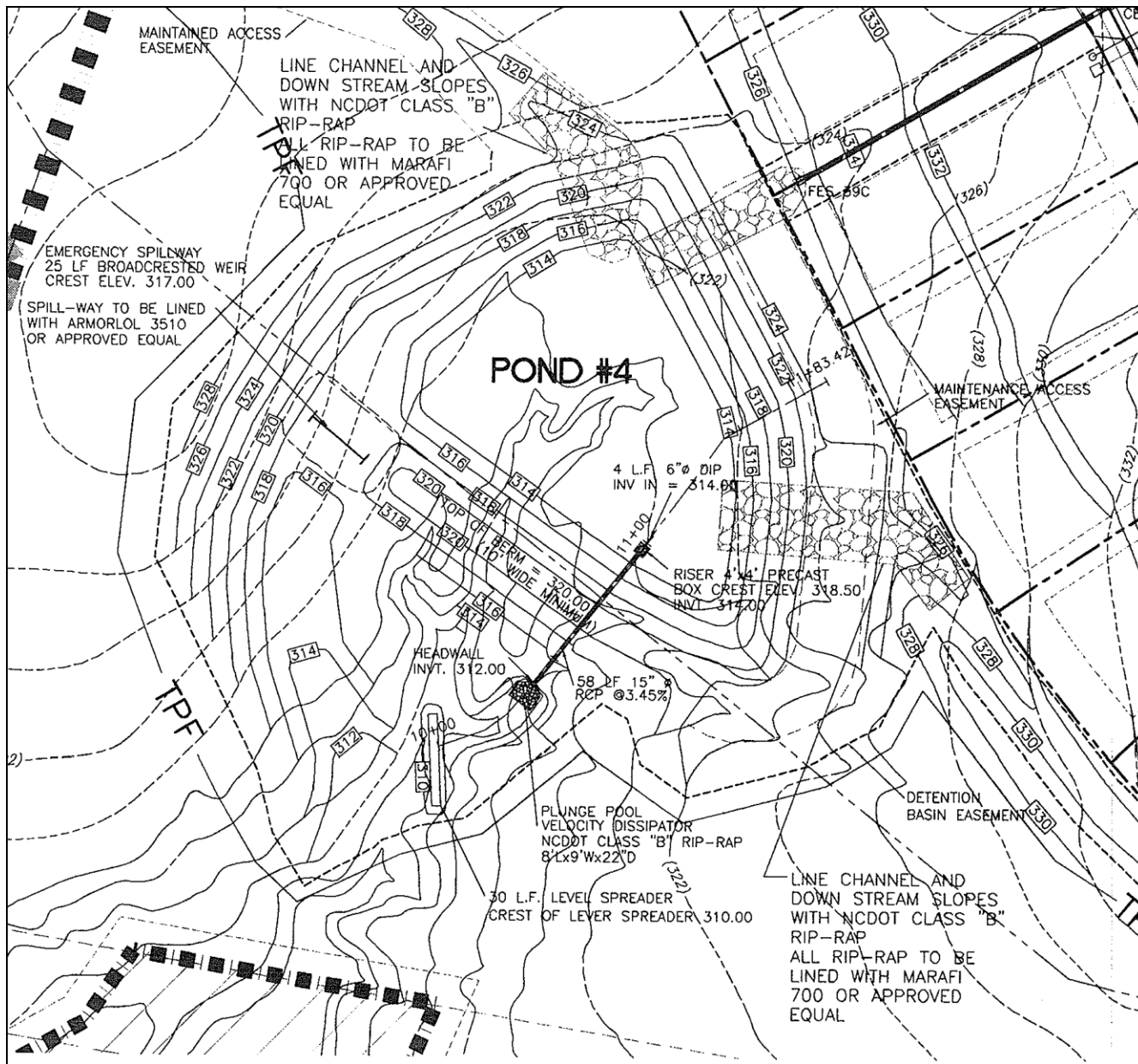
DATE
 6/24/04

OF SHEETS
 1

Glennstone Ph3 DP4 ACIN

Stormwater Management Engineering, PLLC
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 E-mail: dave@stormwaterme.net
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Glennstone Ph3 DP4 ACIN

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 E-mail: dave@stormwaterme.net
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Glennstone Ph3 DP4 Vital Statistics (Limited)

City of Durham ID#: 00411

Type of Facility: Dry Pond

Structural Dam Height: 8-ft

Access: 4030 Lady Slippery Way, Durham, NC

Owner/Permittee: Glennstone Homeowners Association Inc.

Glennstone HOA
c/o Tom Whisnant
TRAC Management, LLC
PO Box 3674, Chapel Hill, NC 27515
Email: Tom@TRACManagement.com
Phone: 919/612-5296

Glennstone Ph3 DP4 ACIN

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Ph: 919/973-0715 E-mail: dave@stormwaterme.net
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Key

PFI/NFI: Identified work item that must be addressed to obtain facility certification during the current year's annual certification cycle.

MFI: Identified work item that must be addressed prior to next year's annual inspection certification.

Identified grass establishment item that must be addressed in accordance with the previously established "arrangement" with the City of Durham.

Note about a condition that's felt to be acceptable or that identifies work that's been completed or that's just recommended.

General label, maintenance recommendation, or element to be **Monitored**.



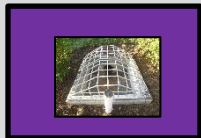
A slide that shows a previous annual (or quarterly) inspection condition for reference.



A slide that presents at least one identified inspection work item **PFI/NFI** that must be addressed before the facility can be certified in the current year. For continuity and historical reference, the inspection date will indicate when the item was identified.



A slide that, in the absence of a red item, presents at least one inspection work item **MFI** that must be addressed before next year's inspection certification. For continuity and historical reference, the inspection date will indicate when the item was identified.



A slide that illuminates the grass establishment efforts yet to be completed.

Glennstone Ph3 DP4 ACIN

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Ph: 919/973-0715 E-mail: dave@stormwaterme.net
www.stormwaterme.net



Key [Continued]



A slide that, in the absence of a red or blue item, presents notes about at least one condition felt to be acceptable or that identifies work that's been completed or that's just recommended (and NOT required).



A slide that shows an element where specific monitoring of a condition is needed.

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www.stormwaterme.net



Summary of **2024** Inspection [Previous Year]

Dry Pond 4

2025-02-06 [Annual Certification] **Inspection:**

Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on the dam (top, u/s face, d/s face, abutment, toe, and groin areas). **To be completed prior to the 2025 certification.**

Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on or around the ES or in the exit channel for the ES. **To be completed prior to the 2025 certification.**

Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on the cut slopes. **To be completed prior to the 2025 certification.**

MFI: Clean minor amounts of sediment and refresh displaced riprap from SE inlet channel.

Comment: Trees and cattails in the impoundment are managed yearly (usually during the winter months, as can be seen in this photograph).

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Summary of **2025** Inspection [Current Year]

Dry Pond 4

2026-01-09 [Annual Certification] Inspection:

Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on the dam (top, u/s face, d/s face, abutment, toe, and groin areas). **To be completed prior to the 2026 certification.**

Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on or around the ES or in the exit channel for the ES. **To be completed prior to the 2026 certification.**

Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on the cut slopes. **To be completed prior to the 2026 certification.**

MFI: Repair eroding SE inlet channel by...

1/Extending the riprap channel up to the point just u/s of the head cut (which occurs prior to the channel turning westward and traversing the slope down to the pond floor).

And...

2/Installing two riprap lined step pools.

MFI: Yearly (in the winter months), remove the trees in the pond, and manage the cattails. This device was last serviced for tree removal and cattail management in February 2025. It's my understanding that, in February 2026, this device will be serviced for tree removal and cattail management.

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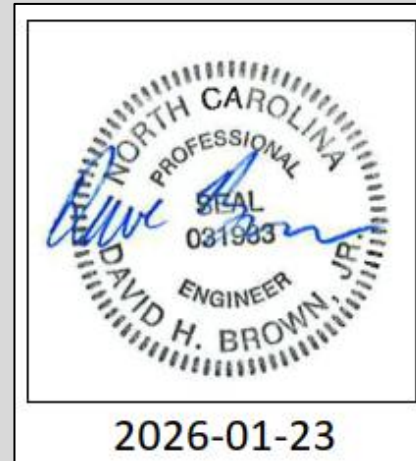
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Proposed “Special” Implementation Schedule

Dry Pond 4

All MFIs identified this year are to be completed satisfactorily by the October 2026 certification.



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Elemental Review

SCM: Dry Pond 4

Inspection Date: 2026-01-09

Weather: Cloudy, 59° F

Date of Last Rain Event: >5 Days

Site Condition: Good

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Note: This is just an overall view. Accordingly, no assessment comments are provided with this slide.

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2026-01-09 **Annual Certification** Inspection

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2029-01-09 **Annual Certification** Inspection

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Previous Inspection



2025-02-06 Annual Certification Inspection

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Previous Inspection



Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on the cut slopes. **To be completed prior to the 2025 certification.**



2025-02-06 Annual Certification Inspection

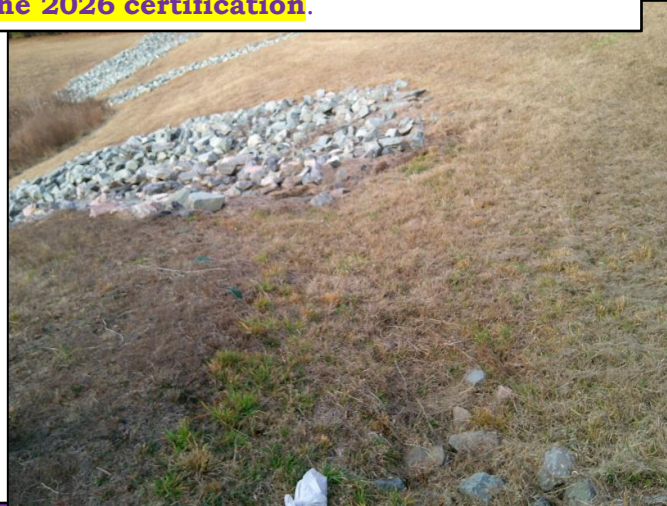
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Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on the cut slopes. **To be completed prior to the 2026 certification.**



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Previous Inspection



NE Inlet Pipe and
Channel

2025-02-06 Annual Certification Inspection

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Previous Inspection



N Inlet Channel

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MFI: Repair eroding SE inlet channel by...

1/Extending the riprap channel up to the point just u/s of the head cut (which occurs prior to the channel turning westward and traversing the slope down to the pond floor).

And...

2/Installing two riprap lined step pools.

SE Inlet Channel

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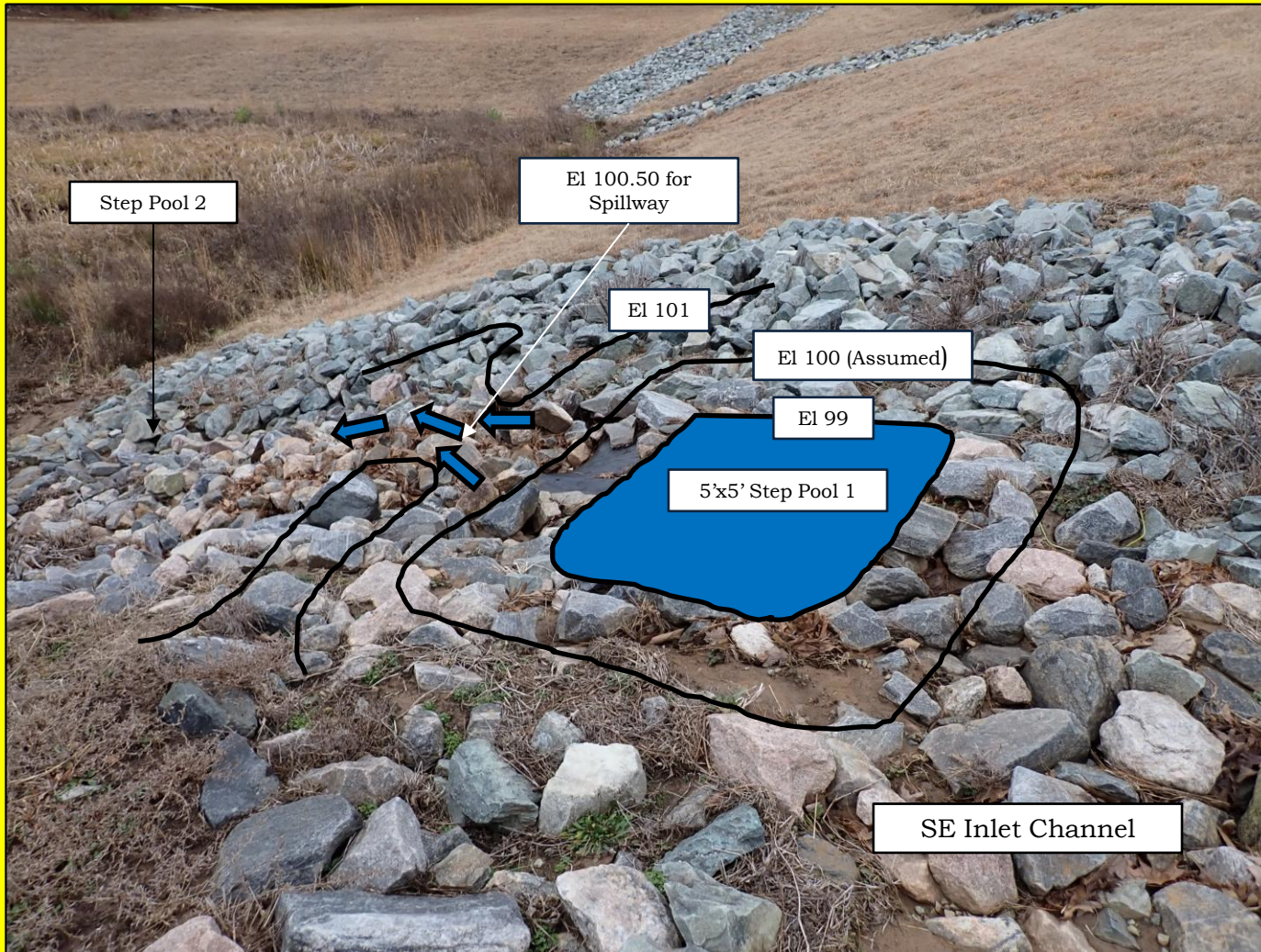
2/Installing two riprap lined step pools.



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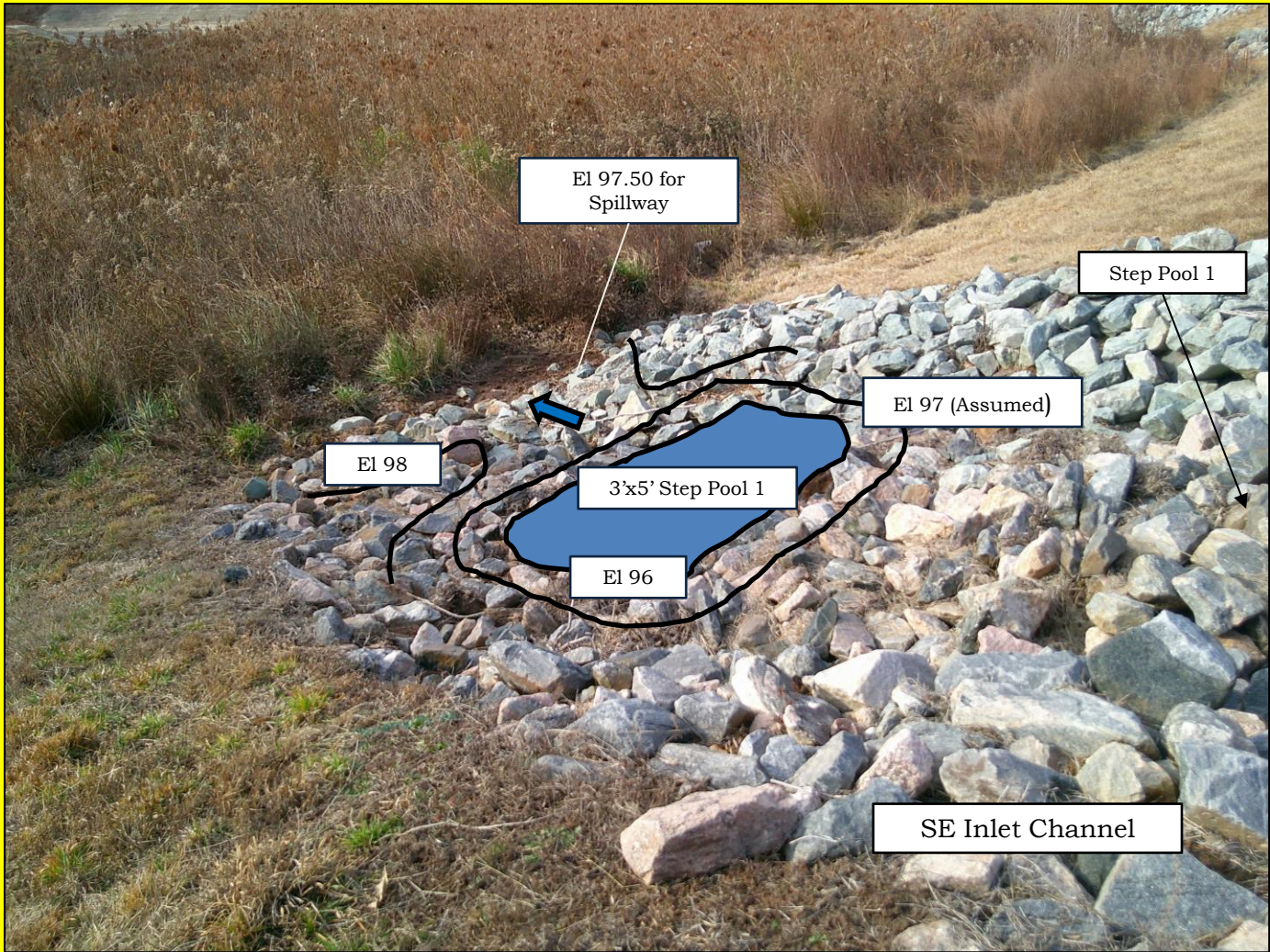


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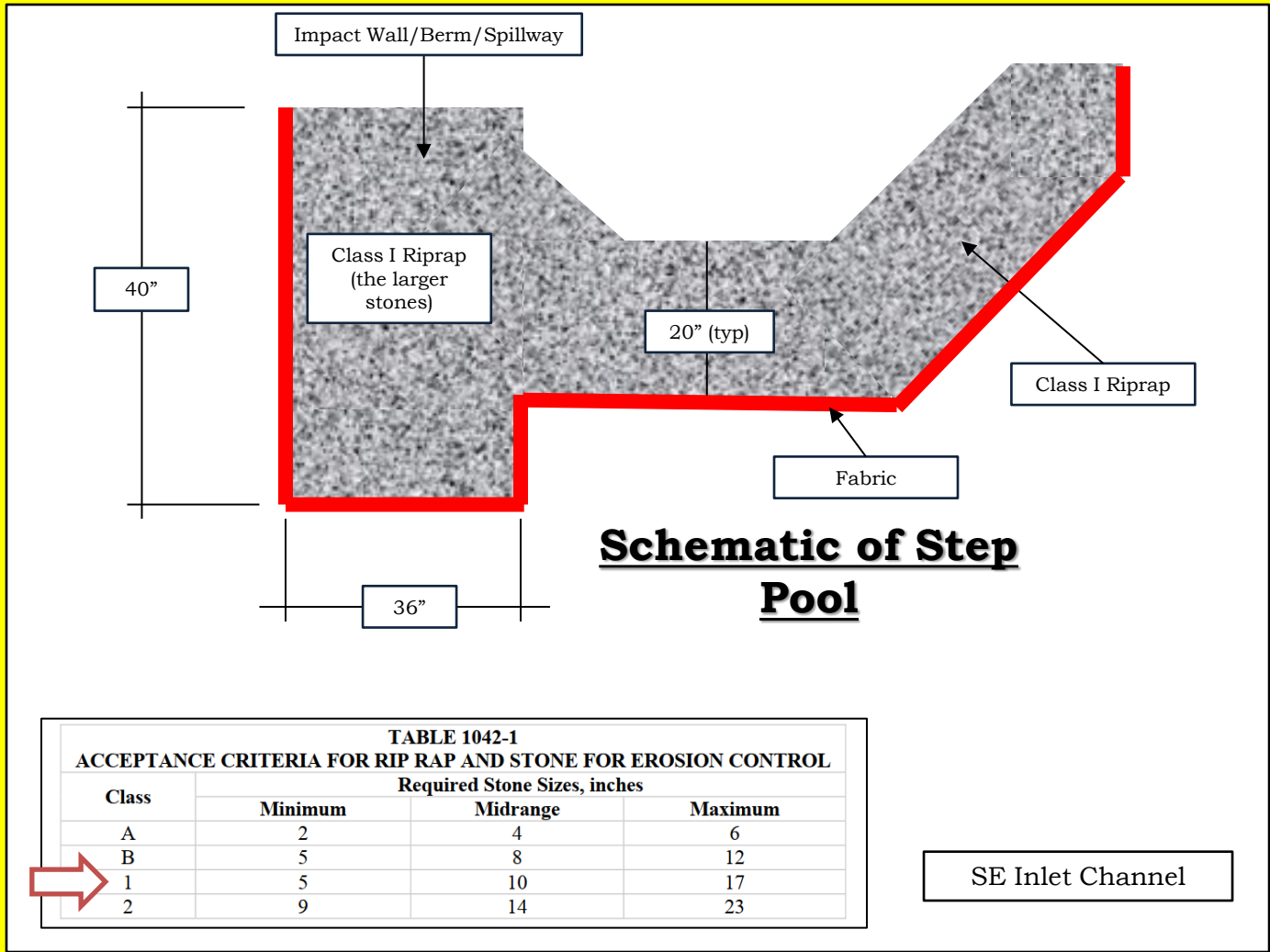


TABLE 1042-1

ACCEPTANCE CRITERIA FOR RIP RAP AND STONE FOR EROSION CONTROL

Class	Required Stone Sizes, inches		
	Minimum	Midrange	Maximum
A	2	4	6
B	5	8	12
1	5	10	17
2	9	14	23

SE Inlet Channel

2025-02-06 **Annual Certification** Inspection

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NE Inlet Pipe and Channel

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N Inlet Channel

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Comment: Trees and cattails in the impoundment are managed yearly (usually during the winter months, as can be seen in this photograph).



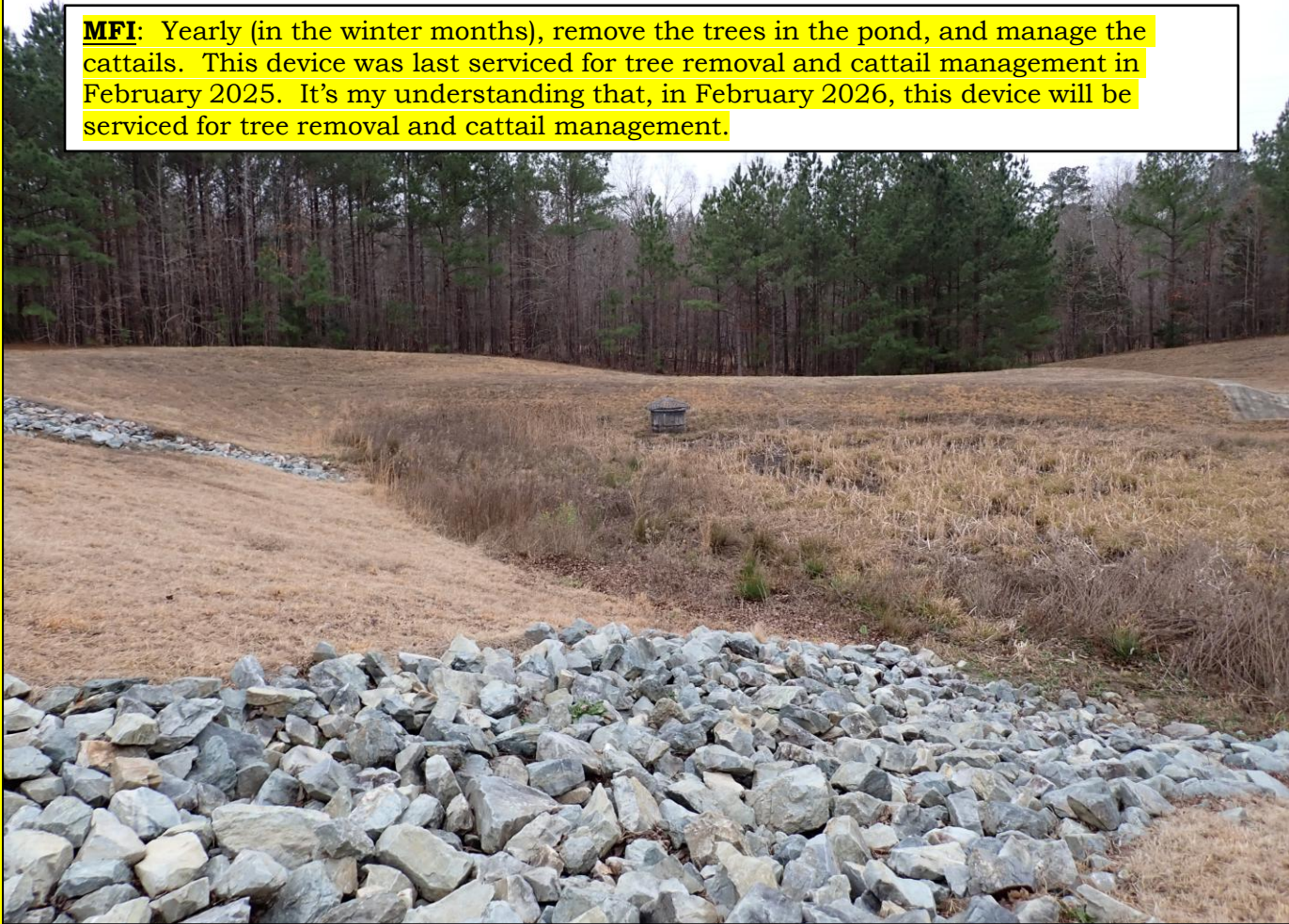
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MFI: Yearly (in the winter months), remove the trees in the pond, and manage the cattails. This device was last serviced for tree removal and cattail management in February 2025. It's my understanding that, in February 2026, this device will be serviced for tree removal and cattail management.



2026-01-09 **Annual Certification** Inspection

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Glennstone Ph3 DP4
City of Durham, North Carolina

Operation and Maintenance (O&M) Manual for the Stormwater Control
Measure (SCM) – Thoroughly Revised

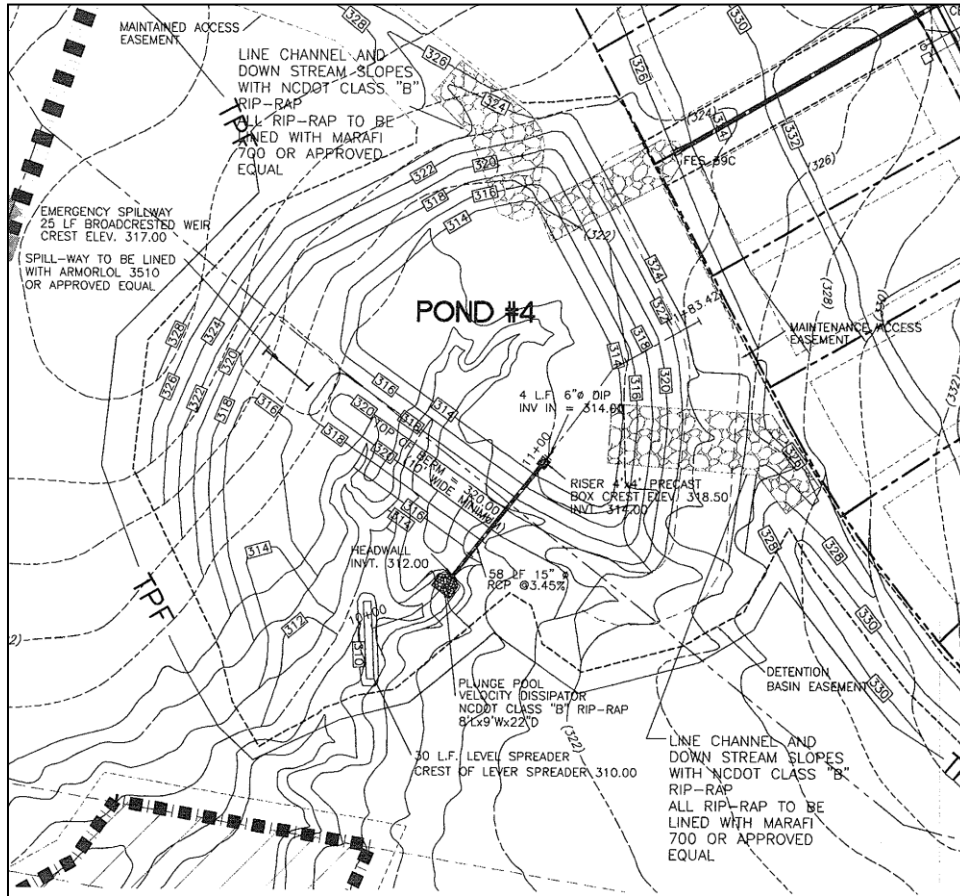
Date: January 23, 2026 [**Updated from Previous Year**]

Author: Dave Brown, PE, BMC No. 2011003

Overall View of Facility



Plan View of Facility (from approved CDs)



The 2021 Glennstone SCM Arrangement

The 2021 Glennstone SCM Arrangement

All four SCMs were inspected on October 28, 2021. Unfortunately, the work that was done in the Fall 2020 and the Spring 2021 had unraveled. At an onsite meeting with City staff, the following guidance was provided:



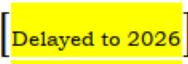

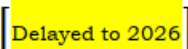

1/By December 22, 2021, revise and resubmit all inspection reports. In the reports all MFIs (except the grass establishment items) are to be recoded as PFIs. The grass establishment items are to be coded as MFIs. Areas where active erosion is occurring are to be coded as PFIs.

COMPLETE

2/By March 15, 2022, submit passing reports for all four SCMs. Included with the reports is to be a signed contract with a reputable vendor for routine maintenance at all 4 Dry Ponds. The contract must specify the exact tasks and their frequency. The contract must also specify the grass establishment efforts to be undertaken.

COMPLETE

Note 2: Grass establishment is to be certified at all four SCMs in accordance with the following extended schedule:

- DP1 by October 2022  COMPLETE
- DP3 by October 2023  COMPLETE
- DP4 by October 2024  
- DP5 by October 2025  

Until grass is established, outstanding grass establishment issues will be coded as MFIs. These grass establishment items are identified on the **purple slides** in this report.

Note: The completion of the significant repairs at both DP4 and DP5 will be accomplished by October 2026. The community ran out of money and is working to acquire loans to complete the work. Signed contracts for the repair work will be provided to Durham by March 1, 2026.

Note 3: As indicated by the City, “If [any of the above requirements are] not met, the owners will be out of compliance and subject to enforcement action. Also, if the owners fail to continue with the routine maintenance specified in the contract or in the grass establishment timetable, the SCMs will be considered non-compliant and subject to enforcement action.”

Note Regarding the 2021 Arrangement

The items to be repaired at DP4 will be completed in 2026.

Items Identified in 2025 Certification Inspection

Dry Pond 4

2026-01-09 [Annual Certification] Inspection:

Continuing MFI: Establish turf grass on **ANY** and **ALL** bare and marginally stabilized areas on the dam (top, u/s face, d/s face, abutment, toe, and groin areas). **To be completed prior to the 2026 certification.**

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MFI: Repair eroding SE inlet channel by...

1/Extending the riprap channel up to the point just u/s of the head cut (which occurs prior to the channel turning westward and traversing the slope down to the pond floor).

And...

2/Installing two riprap lined step pools.

MFI: Yearly (in the winter months), remove the trees in the pond, and manage the cattails. This device was last serviced for tree removal and cattail management in February 2025. It's my understanding that, in February 2026, this device will be serviced for tree removal and cattail management.

General Operational Elements

Dam Embankment

The entire dam should be mowed regularly and kept free of all woody vegetation. Any bare areas should be raked, amended, seeded, and mulched as soon as practicable. Typically, the best times to complete such work are in the early fall and early spring.

Riser Structure

The riser structure (including the top and low-flow trashracks) should be kept free of sediment, debris, and trash, and all vegetation (except grass) should be cleared within five feet of the structure.

Principal Spillway Pipe (PSP)

The PSP should be kept free of sediment, debris, and trash. Special attention is directed to the connection of the PSP to the Riser Structure. If cave-ins appear behind the riser structure, please contact me as soon as possible as the presence of such a condition may be indicative of some form of piping failure, which can significantly threaten the viability of the dam, the function of the PSP, and the overall function of the naturalized wetland system.

Emergency Spillway

The emergency spillway should be kept free of sediment, debris, and trash. A minimum three foot swath upstream and downstream of the concrete portion of the spillway should be maintained as grass along with the rest of the dam. In addition, due to the wide-spread cracking of the structure, due largely to the fact that construction joints were not installed with the original construction, this structure should be monitored for significant spalling (erosion of the concrete) and settlement. Should significant issues of spillway deterioration or settlement occur, please contact me as soon as possible.

Outfall

The outfall area should be kept free of excess sediment and overgrown vegetation.

Cut slopes (these are the pond side slopes that are not associated with the dam)

Any bare areas should be raked, amended, seeded, and mulched. The best times to complete such work are in the early fall and early spring.

Principal Inlets

The riprap inlet channels should be kept clear of excess vegetation and tree growth. In addition, these channels should be monitored for erosion problems and instances where flows are leaving the channels or exceeding the capacity of the channels. If the latter flow issues arise, please feel free to contact me.

Impoundment Area

The current condition of the impoundment is that of a wet meadow. This condition is deemed to be beneficial to water quality and to the environment. As such, if significant (or questionable) changes occur in the impoundment, please feel free to contact me.

Note Regarding Trees and Cattails in Ponds and Tree Clearing and Cattail Management Operations

Except in instances where long standing naturalized areas have been approved by Durham SSD, trees are to be cleared from stormwater impoundments. For safety reasons, all tree-clearing operations are to be conducted during the winter months. Additionally, ponds with cattails covering more than 30% of the pond floor are to be managed in the winter as well.

Inspection Frequency

It is recommended that this facility be inspected/monitored monthly and after any rain event that produces at least 1" of rainfall during a 24-hour period.

At a minimum, an engineering inspection shall occur at least once per year for annual certification purposes. If significant functional issues arise during the year, the certifying engineer should be contacted to provide a supplemental inspection and assessment of said significant functional issues. For this facility, that person is Mr. Dave Brown with SME, PLLC. Mr. Brown's contact info is as follows:

Dave Brown, NCPE
Stormwater Management Engineering, PLLC
400 Laurel Springs Drive #415
Durham, NC 27713
Ph: 919/973-0715
E-mail: dave@StormwaterMe.net

Maintenance Record-Keeping

Per SSD requirements, all inspection and maintenance record-keeping shall be maintained by the owner (or the owner's representative). For this facility, that person is Mr. Tom Whisnant with TRAC Management, LLC. Mr. Whisnant's contact info is as follows:

Tom Whisnant
TRAC Management, LLC
PO Box 3674
Chapel Hill, NC 27515
919/612-5296
E-mail: tom@TRACmanagement.com