



# Form 3C – Underground Detention As-Built Certification

## City of Prattville Review

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

Required Attachments:  As-built Survey  H&H Calculations  Photographs  Maintenance Plan  
 Operation and Maintenance Agreement (OMA)

Approval Status:  Approved  Approved Contingent  Denied  Incomplete

Comments: \_\_\_\_\_

## Development Information

Date: \_\_\_\_\_

Name: \_\_\_\_\_ BMP ID: \_\_\_\_\_

Address or Location: \_\_\_\_\_

Required Attachments:  As-built Survey  H&H Calculations  Photographs  Maintenance Plan  
 Operation and Maintenance Agreement (OMA)

**Watershed:**  Noland Creek  Autauga Creek  Pine Creek  Fay Branch

## Underground Detention

### Design

Pretreatment:  Yes  No Type: \_\_\_\_\_

Inlet Filters:  Yes  No Type: \_\_\_\_\_

Chamber Type: \_\_\_\_\_

System Cross Section:	Depth	Bottom EL
Stone Base:	_____ in	_____ ft
Chamber Height:	_____ in	_____ ft
Compacted Backfill:	_____ in	_____ ft
Finished Grade:	_____ in	_____ ft
Row Separation Width:	_____ in	
Separation Geotextile Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

System Layout:	Manifold	Isolator	Chamber
No. Rows (ea):	_____	_____	_____
Row Length (ft):	_____	_____	_____
Row Volume (ft <sup>3</sup> ):	_____	_____	_____
Inv. EL (ft):	_____	_____	_____
Isolator Row:	Manhole		
Sump Depth:	_____ in	Bottom EL:	_____ ft
Diameter:	_____ ft	Top EL:	_____ ft

Underdrain Pipe(s):	Diameter	Invert EL
Perforated Pipe:	_____ in	_____ ft
Outlet Pipe:	_____ in	_____ ft

**Inspection Port(s):**

Diameter: \_\_\_\_\_ in

Number of Pipes: \_\_\_\_\_ ea

### As-Built

Pretreatment:  Yes  No Type: \_\_\_\_\_

Inlet Filters:  Yes  No Type: \_\_\_\_\_

Chamber Type: \_\_\_\_\_

System Cross Section:	Depth	Bottom EL
Stone Base:	_____ in	_____ ft
Chamber Height:	_____ in	_____ ft
Compacted Backfill:	_____ in	_____ ft
Finished Grade:	_____ in	_____ ft
Row Separation Width:	_____ in	
Separation Geotextile Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

System Layout:	Manifold	Isolator	Chamber
No. Rows (ea):	_____	_____	_____
Row Length (ft):	_____	_____	_____
Row Volume (ft <sup>3</sup> ):	_____	_____	_____
Inv. EL (ft):	_____	_____	_____
Isolator Row:	Manhole		
Sump Depth:	_____ in	Bottom EL:	_____ ft
Diameter:	_____ ft	Top EL:	_____ ft

Underdrain Pipe(s):	Diameter	Invert EL
Perforated Pipe:	_____ in	_____ ft
Outlet Pipe:	_____ in	_____ ft

**Inspection Port(s):**

Diameter: \_\_\_\_\_ in

Number of Pipes: \_\_\_\_\_ ea

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Development Name: \_\_\_\_\_

Date: \_\_\_\_\_

BMP ID: \_\_\_\_\_

## Underground Detention (continued)

### Design

#### Outlet Control Manhole:

Material: \_\_\_\_\_ Shape: \_\_\_\_\_

Dimension: Dia.: \_\_\_\_\_ ft  
 Width: \_\_\_\_\_ ft Length: \_\_\_\_\_ ft

Bottom EL: \_\_\_\_\_ ft Top EL: \_\_\_\_\_ ft

Trash Rack:  Yes  No

	Shape	Size	Inv. EL
Outlet Pipe:	_____	_____ in	_____ ft
WQ <sub>v</sub> Orifice:	_____	_____ in	_____ ft
Filter:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Orifice 2:	_____	_____ in	_____ ft
Orifice 3:	_____	_____ in	_____ ft
Orifice 4:	_____	_____ in	_____ ft
	Shape	Length	Inv. EL
Weir 1:	_____	_____ ft	_____ ft
Weir 2:	_____	_____ ft	_____ ft

Emergency Spillway:  Yes  No

Type: \_\_\_\_\_

### As-Built

#### Outlet Control Manhole:

Material: \_\_\_\_\_ Shape: \_\_\_\_\_

Dimension: Dia.: \_\_\_\_\_ ft  
 Width: \_\_\_\_\_ ft Length: \_\_\_\_\_ ft

Bottom EL: \_\_\_\_\_ ft Top EL: \_\_\_\_\_ ft

Trash Rack:  Yes  No

	Shape	Size	Inv. EL
Outlet Pipe:	_____	_____ in	_____ ft
WQ <sub>v</sub> Orifice:	_____	_____ in	_____ ft
Filter:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Orifice 2:	_____	_____ in	_____ ft
Orifice 3:	_____	_____ in	_____ ft
Orifice 4:	_____	_____ in	_____ ft
	Shape	Length	Inv. EL
Weir 1:	_____	_____ ft	_____ ft
Weir 2:	_____	_____ ft	_____ ft

Emergency Spillway:  Yes  No

Type: \_\_\_\_\_

## Discharge Summary:

### Design

Rainfall	Pre Q	Pond In Q	Pond Out Q	Max. Stage	Outlet Velocity	Total Post Q
1.14" (WQ)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
4.21" (2-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
5.24" (5-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
6.17" (10-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
7.55" (25-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
9.93" (100-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s

### As-Built

Rainfall	Pre Q	Pond In Q	Pond Out Q	Max. Stage	Outlet Velocity	Total Post Q
1.14" (WQ)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
4.21" (2-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
5.24" (5-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
6.17" (10-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
7.55" (25-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s
9.93" (100-yr)	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft <sup>3</sup> /s	_____ ft	_____ ft/s	_____ ft <sup>3</sup> /s

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Development Name: \_\_\_\_\_ Date: \_\_\_\_\_

BMP ID: \_\_\_\_\_

**Stage-Area-Storage Summary:** (Notes: Maximum elevation increment of 1-foot. Add WQ<sub>v</sub> elevation and check.)

**Design**

WQ <sub>v</sub>	Elevation	Area	Cumulative
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>

**As-Built**

WQ <sub>v</sub>	Elevation	Area	Cumulative
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>
<input type="checkbox"/>	_____ ft	_____ ft <sup>2</sup>	_____ ft <sup>3</sup>

**Water Quality Volume (WQ<sub>v</sub>)**

**Design** WQ<sub>v</sub> = \_\_\_\_\_ ft<sup>3</sup>

**As-Built** WQ<sub>v</sub> = \_\_\_\_\_ ft<sup>3</sup>

**Outfall Location**

**Design**

Latitude: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_"  
 Longitude: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_"

**As-Built**

Latitude: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_"  
 Longitude: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_"

**Owner's Information:**

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 Comments: \_\_\_\_\_

**Home Owners Association (HOA) Information:**

Not Applicable

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ E-mail: \_\_\_\_\_

**HOA Board Members:**

Name	Title	Phone	E-mail
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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Development Name: \_\_\_\_\_

Date: \_\_\_\_\_

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## **Professional Engineer Certification:**

By affixing my professional seal and signature on this form, I hereby certify that this stormwater management facility has been constructed in accordance with the approved design on file with the City of Prattville. I further certify that the drainage areas shown in the approved hydrology and hydraulic (H&H) calculations do in fact drain into this facility and that the post-development runoff mimics pre-development hydrology to the maximum extent practicable (MEP).

Company: \_\_\_\_\_

Seal:

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Phone: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



# Form 3C – Underground Detention As-Built Certification

## Supplemental Instructions

1. The developer / owner shall retain the services of a professional land surveyor to:
  - a. Perform a field survey of the constructed underground stormwater management system; and,
  - b. Develop an as-built drawing of the underground stormwater management system.
  
2. The developer shall retain the services of a professional engineer to:
  - a. Use the as-built survey data to complete Form 3C – Underground Detention As-built Certification Form; and,
  - b. Provide ALL required attachments:
    - As-Built Survey Drawing(s)
    - H&H Calculations
    - Photographs
    - Maintenance Plan
    - Operation and Maintenance Agreement (OMA)
    - All drawings provided with this form shall have a maximum scale of 1 inch = 100 feet
  
3. Form 3C – Underground Detention As-built Certification Form shall be approved by the City prior to:
  - a. The issuance of a Certificate of Occupancy; and/or,
  - b. Prior to approval of the Final Plat.