

**SPECIAL BOARD OF SUPERVISOR'S MEETING
PINE TREE WATER CONTROL DISTRICT**

Monday day, December 16, 2024
6:00 P.M.

AGENDA

- I. Call to Order**
- II. Pledge of Allegiance**
- III. Consent Agenda**
- IV. Meeting to discuss and vote on Bluestone Entertainment Venue LLC – 42" Drainage Culvert Operation and Maintenance Schedule**
- V. Adjourn**

PINE TREE WATER CONTROL DISTRICT / VILLAGE OF WELLINGTON

**Bluestone Entertainment Venue LLC
16552 Norris Road
Wellington, FL 33470
(PCN 73-40-44-13-00-000-7480)**

**42 "Drainage Culvert Operation
and Maintenance Schedule**

November 2024

Summary:

This document shall serve as the operation and maintenance plan for the 42" drainage culvert and related drainage structures on the Pine Tree Water Control District (PTWCD) 50' Drainage Easement along the Eastern boundary on the property located at 16552 Norris Road in the Village of Wellington.

This plan has been requested by PTWCD to be a guide for the maintenance in perpetuity of the culvert system from the moment it is constructed

42" Drainage Culvert System:

The proposed stormwater conveyance system shall consist of three stormwater structures (two catch basins and one manhole) with 2' sumps below proposed invert elevation, one free outfall into the existing canal and 571 LF of 42" corrugated aluminum pipe (CAP) culvert divided in three segments.

The proposed culvert shall be installed with a minimum of 0.07% slope that shall maintain a minimum flow velocity higher than 2 ft/s when half full helping to flush the system during rain events.

The following tables summarizes the components of the drainage culvert system

Structure	Structure Description	Cover Type	RIM Elev	Bottom Elevation	Invert Elevation			
					N	S	E	W
MH 1	Ø 72" Type J	USF 117 / 1117 Ring & Cover	13.60'	4.95'	6.99'	6.95'	10.65'	10.77'
CB 1	Ø 60" Type J	USF 4655 G172 Frame & Grate	13.50'	4.90'	6.90'	6.90'	-	-
CB 2	Ø 60" Type J	USF 4655 G172 Frame & Grate	13.50'	4.70'	6.70'	6.70'	-	-

US Structure	DS Structure	Pipe Segment Length (LF)	Pipe Segment Diameter
MH 1	CB 1	25	42"
CB 1	CB 2	260	42"
CB 2	Outfall	286	42"

Maintenance Plan:

- **Regular Inspection:** Visually inspect twice a year the stormwater structures, (catch basins and manhole) for sediment buildup and debris

accumulation, especially within the 2' sumps. Check for blockages that could impede the flow of water.

- **Sump Cleaning:** Clean out the sumps to remove sediment, trash, or other debris. This should be done as needed, but a minimum of once a year
- **Sediment Removal:** If the sumps collect excessive sediment, a mechanical vacuum or hydraulic dredging may be required to remove the material.
- **Inlet and Outlet Maintenance:** Check the catch basins grates and outlet pipes to ensure they are clear of blockages and working efficiently.
- **Cleaning and Debris Removal:** Ensure that the culvert is free of any blockages, including debris, sediment, or vegetation, especially at the pipe's inlet and outlet. Use high-pressure water jetting or mechanical methods to clear blockages.

General Maintenance Recommendations:

- **Record Keeping:** Maintain detailed records of all inspections, maintenance activities, and repairs, including dates and actions taken. This will help track the system's health and anticipate future maintenance needs.
- **Storm Event Preparation:** Before large storms, inspect the system to ensure it is clear of debris and functioning properly.

Frequency of Maintenance:

- **Quarterly or Biannual Inspections:** Inspect the stormwater structures, outfall, and culvert at least twice a year, or after major storms.
- **Annual Cleaning:** Clean sumps, culverts, and outfall areas at least once a year, or more frequently if needed based on the volume of stormwater and surrounding land conditions.
- **Immediate Action After Storms:** Inspect for damage, erosion, and sediment build-up immediately after major storms

