



# Siler City Stormwater Infrastructure Lookbook: NCDOT-Owned Streets

*Highest-Priority Stormwater Infrastructure Maintenance Needs*  
*Version date: June 2020*



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# Completed as Part of the Siler City Stormwater Mapping and Assessment Project

Prepared by the  
Triangle J Council of Governments  
in partnership with  
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# GETTING STARTED

This “Lookbook” includes the stormwater infrastructure features needing both structural improvement and cleanout as noted by TJCOC and Biocenosis staff conducting the assessment. The intent of this document is to provide Siler City staff with a method of prioritizing stormwater infrastructure maintenance needs.

## *Definitions*

### **ID Codes**

Each stormwater infrastructure feature has a unique ID code based on the infrastructure’s location in the grid, location on a road owned and maintained by the Town or DOT, and infrastructure type. i.e., C2TN\_CB03 is a catch basin in grid square C2 which drains a town-maintained street.

The number after the infrastructure type does not have a spatial significance. It is simply used to provide a unique overall ID code, distinguishing between (in this example) all catch basins in grid square C2 on a Town-maintained road.

Please refer to grid squares in the [public webmap](#) developed by Biocenosis/TJCOC and in map books housed at the Town of Siler City.

### **Abbreviations**

TN: Town

ST: State (DOT)

CB: Catch basin

CV: Culvert

PI: Pipe inlet

PO: Pile outlet

OF: Outfall

SL: Stormwater line

DT: Ditch

### **Structure Condition Rating**

Good: Structure intact; no observed problems

Fair: Infrastructure may become compromised in future (i.e., minor crack around catch basin or culvert)

Needs Improvement: Structure not functional (due to visibly collapsed pipes, broken catch basin grates, infrastructure abutting sinkholes, etc.)

### **Cleanout Needs Rating**

No: Clear or less than half blocked by debris such as leaves, sticks, trash

Yes: More than half or fully blocked by debris; or buried



**Structure ID:** D5ST\_CB01

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** Brick

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:** Almost Completely full of sediment

**Observed pollution:** YES

**Pollutant description:** Sediment



**Structure ID:** D6ST\_CB01

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Grate Inlet

**Cover:** Grate

**Box material:** Brick

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:** Erosion/sinkhole around clogged grate, can't see in

**Cleanout needed:** YES

**Cleanout description:**

**Observed pollution:** YES

**Pollutant description:** Litter, grass clippings





**Structure ID:** D6ST\_CB06

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Curb Inlet

**Cover:** N/A

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:**

**Observed pollution:** YES



**Structure ID:** G5ST\_CB02

**Date:** 5/28/2019

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:** Concrete crumbling on edge

**Cleanout needed:** YES

**Cleanout description:** Debris fills most of grate, sediment on sidewalk

**Observed pollution:** YES

**Pollutant description:** litter, sediment, branches, leaves





**Structure ID:** G6ST\_CB05

**Date:** 10/24/2019

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** Concrete

**Pipe connections (if visible):** 1

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:** Clogged with wood chips/animal bedding. Can't see inflow, clogged with animal bedding, possible inflow from across street?

**Observed pollution:** YES

**Pollutant description:** organic debris

**Other comments:** This outfalls via pipe on private property into boggy ditch by railroad





**Structure ID:** G6ST\_CB07

**Date:** 10/24/2019

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:** Completely blocked

**Cleanout needed:** YES

**Cleanout description:** completely full of sediment

**Observed pollution:**

**Pollutant description:**

**Other comments:** Cleaned by Siler City staff 5/2020



**Structure ID:** G9ST\_CV02

**Type:** Culvert - Road

**Diameter:** 24

**Material:** Concrete

**Observed condition:** Needs Improvement

**Cleanout needed:** YES

**Cleanout description:** Outfall to creek clogged w leaves. Multiple small pipes from private property deposit water to culvert; massive erosion someone is trying to stabilize w chunks of concrete

**Observed Pollution:** No





**Structure ID:** H4ST\_CB02

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Grate Inlet

**Cover:** Grate

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:**

**Observed pollution:** YES

**Other comments:** Probably gets runoff from old hospital site





**Structure ID:** H5ST\_CB01

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Grate Inlet

**Cover:** Grate

**Box material:** Brick

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:** Full of trash/buried

**Observed pollution:** YES



**Structure ID:** H5ST\_CB02

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Grate Inlet

**Cover:** Grate

**Box material:** Brick

**Pipe connections (if visible):** 2

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:** Large chunks of asphalt inside

**Observed pollution:** YES





**Structure ID:** H5ST\_CB05

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:**

**Observed pollution:** YES





**Structure ID:** H5ST\_CB06

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:** At least one broken bar

**Cleanout needed:** YES

**Cleanout description:**

**Observed pollution:** YES



**Structure ID:** H7ST\_CB05

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:** Fairly sure there's a catch basin under all this sediment- confirm

**Observed pollution:** YES





**Structure ID:** I9ST\_CV01

**Type:** Culvert – Road

**Diameter:**

**Material:** Concrete

**Observed condition:** Needs Improvement

**Comments:**

**Cleanout needed:** YES

**Cleanout description:** Fully buried, can't find one end

**Observed Pollution:** No





**Structure ID:** J8ST\_CB01

**Date:** 2/13/2020

**Type:** Catch Basin

**Subtype:** Combo Curb/Grate Inlet

**Cover:** Grate

**Box material:** can't see

**Pipe connections (if visible):** can't see

**Observed condition:** Needs Improvement

**Condition description:**

**Cleanout needed:** YES

**Cleanout description:**

**Observed pollution:** YES

