



# Town of Mount Pleasant Pipe Compaction Specification HIGHLIGHTS

## Special Conditions - Wet Trenches:

- If there is water in the trench it must be dewatered.
- If you encounter water the pipe must be bedded in 57 or 789 stone.
- If a single pump cannot control the water in the trench you might need to well point.
- The entire width of the trench must have stone, not just under the pipe.
- The first lift must pass compaction, regardless of water.

## Bedding and Trench Work:

### Bedding:

- Slag is not an acceptable bedding material.
- A stone bedding must be used if you encounter water or if the trench bed is too soft.

### Backfill:

- All fill is to be structural fill.
- Back fill must be classified by the geo-tech.

### Compaction:

- The entire width of the trench must be compacted, not just beside the pipe.
- The first lift will be no higher than the first 1/3rd of the pipe, **NOT THE SPRINGLINE!**
- All lifts will be 12 inches after the first lift.
- All lifts must pass compaction, regardless of water.
- When compacting the trench be careful not to damage the filter fabric.

### Compaction Testing:

- All trenches must be tested using a nuclear density gauge.
- Modified proctor must be used.
- 95 % compaction in the road and the right of way behind the curb.
- 98 % compaction within 2 Ft. of the sub-grade.
- 90 % compaction in the green areas.
- Runs 50ft. Or shorter – (1) test **on each side of the pipe - per lift.**
- Runs 50ft. To 100ft. – (2) tests **on each side of the pipe - per lift.**
- Runs over 100ft.- (3) tests **on each side of the pipe - per lift along the run/ between structures.**
- **SEE EXAMPLES of testing locations and quantities.**

### Reporting and Acceptance:

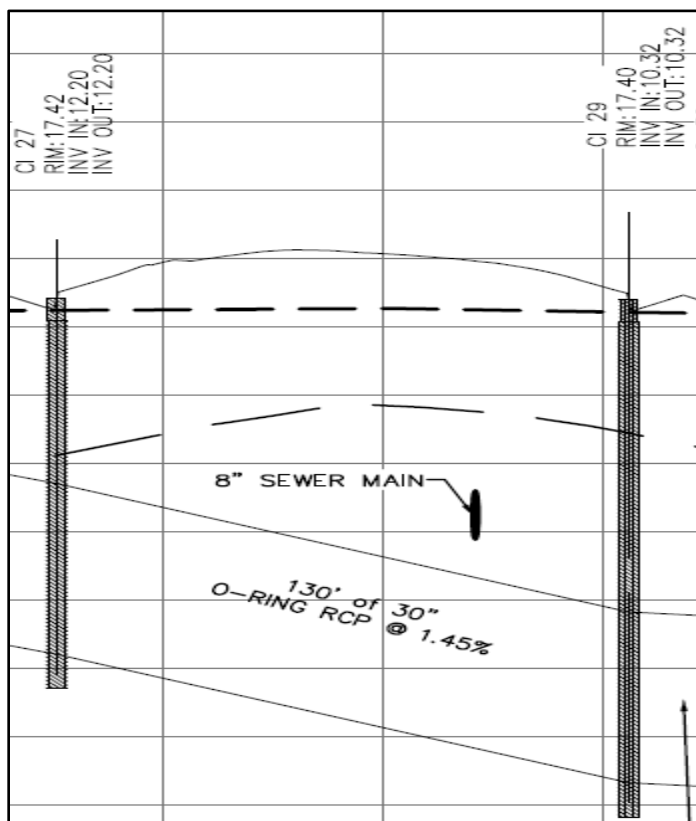
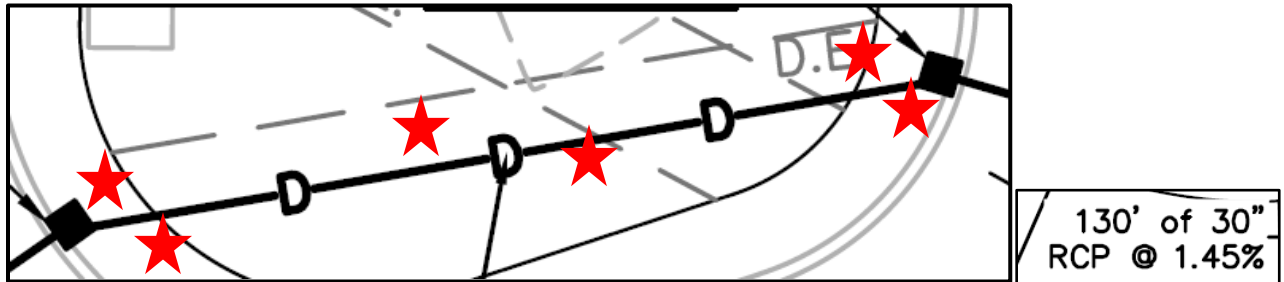
- Compaction tests will be provided to the Inspecting Professional no more than 2-weeks from the time of testing.
- If we feel that you are not compacting properly we will request copies of the compaction testing results at the time of testing.
- No pipe installation will be allowed until we are satisfied that proper compaction is being performed in the trench.
- If a pipe run does not have the required compaction tests, the entire pipe will have to be uncovered down to the first lift; compacted and tested.

Items listed do not include all specifications and requirements. Default to SCDOT Designation: SC-M-714 and see Town PowerPoint. The Town and the Inspecting Professional may call for additional testing if conditions or findings warrant.

Created: 3/2019;

Updated:

**COMPACTION TESTING LOCATIONS AND QUANTITY EXAMPLE:**



Invert – 12'-10';  
Rim – 17'

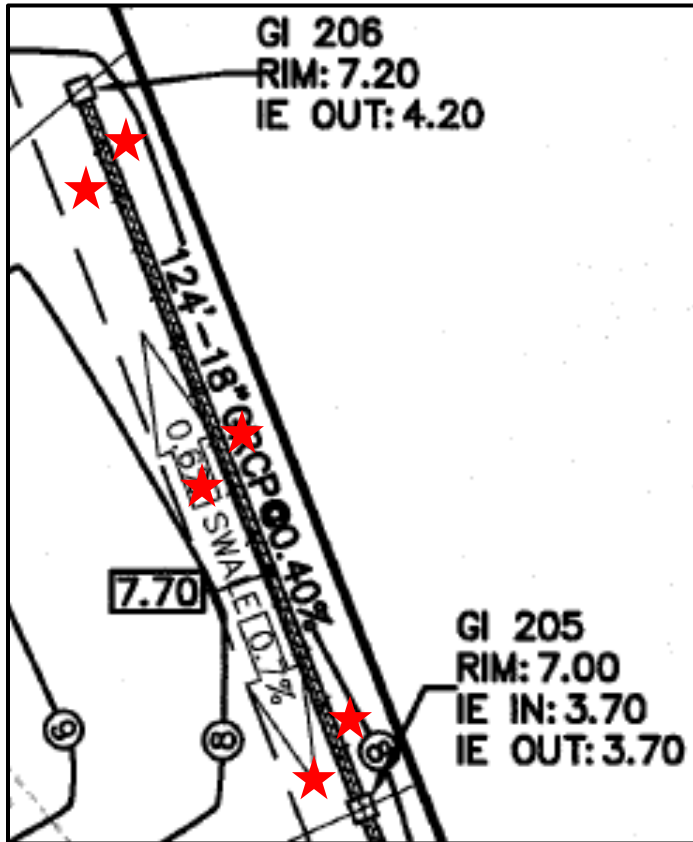
Requires avg (6) lifts

In (6) test locations ★ along the trench

**TOTAL COMPACTION TESTS – (36)**

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**COMPACTION TESTING LOCATIONS AND QUANTITY EXAMPLE:**

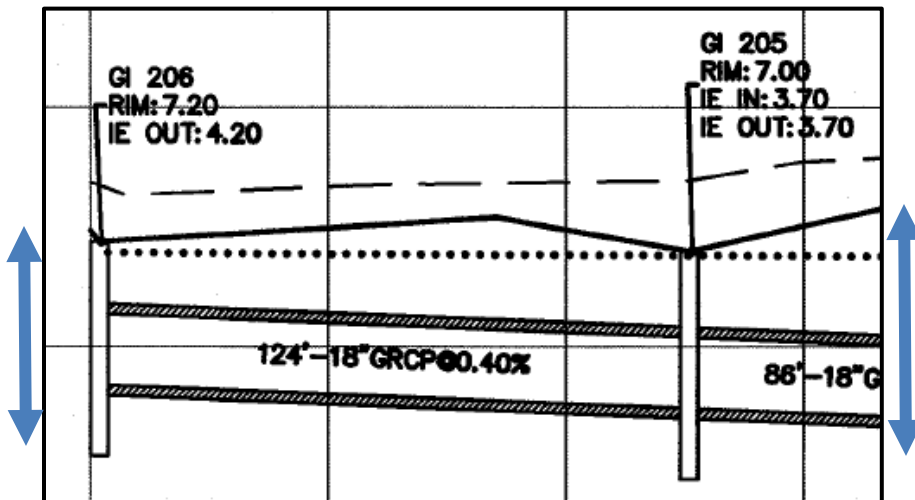


Invert – 4’  
Rim – 7’

Requires avg (3) lifts

In (6) test locations ★ along the trench

**TOTAL COMPACTION TESTS – (18)**



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