

**Sonja Birr**

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**From:** Eric Sitkiewitz - D6  
**Sent:** Monday, December 7, 2020 7:42 AM  
**To:** Greg Minikel  
**Cc:** Dan Koski; Mike Zimmer; Sonja Birr  
**Subject:** Re: Harvest Circle (South Leg) - Culverts & Ditches near Carrie Lane

Good morning Greg,

Thank you for your attention and detail. I would look to just have this come back to committee.

I don't know what the best solution but that is something that the committee can deliberate on.

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Sent from my iPhone

On Dec 3, 2020, at 3:58 PM, Greg Minikel <[gminikel@manitowoc.org](mailto:gminikel@manitowoc.org)> wrote:

Hi Eric,

Our surveyor, Mike Zimmer, has completed the work in this area and we have talked about it internally.

The worst or main problem spot is on the southwest corner of Harvest Cir. and Carrie Lane.

The culvert pipe that drains from north to south across Harvest Cir. is about 6 inches lower than the existing ditch just to the west. The abutting property owner told Mike that during heavy rains the stormwater just about overtops the roadway on this corner.

Basically, everything (both sides of Harvest Circle) is draining to the west to land outside of the City Limits.

The existing ditches and culverts on the north side of Harvest Cir. are basically flat from west of Carrie Ln. to the City Limits on the west end.

The south side ditch has about 0.64 feet of fall in 210 feet or 0.3% slope average. Normally, we like to have grass ditches at 1% slope. The west side of the culvert at 4514 Harvest is at exactly the same elevation as the east side culvert for 4516 Harvest. So, there is basically no flow between these 2 properties and hence the water ponding in some locations.

There are additional problems on the south side of the road where the property owner installed culverts over the years and filled in the ditch and we are not aware that they were given any permission to do so. We have similar issues on the north leg of Harvest Cir. Although, on the north leg, I believe some of those property owners did get approval from Building Inspection and/or the previous Dep. City Engineer, Ken Kalscheur, to install culverts and fill in the ditches.

The problem is made worse by the fact that the property owner or previous owner at 4517 Harvest Cir. installed only a 12 inch corrugated metal culvert pipe (CMP) on the downstream end of his property when the culvert pipe crossing Harvest Cir. is an 18" CMP. This is also contributing to the capacity issues.

We believe that there have been 4 different property owners at this address since it was built, so that complicates matters as well.

Not sure if we have a clear recommendation for this one. We may well open a big can of worms with this one.

One solution would be to install approximately 230 feet of new storm sewer pipe (15" or 18") on the south side of Harvest Cir. from the City Limits to the East side of Carrie Lane. I am guessing that this option would be in the range of \$50,000 to \$75,000.

I am assuming that telling the property owner at 4517 Harvest Circle that we are once again installing a deeper ditch in their front yard, when they have access for a camper now, will not go over too well.

This solution/option does nothing to help the drainage on the north side of the street.

So, what do we do with the north side ditch?? Do we regrade it and replace all of the culverts at the proper grade?? I would think that these owners will want to have the same thing that the south side properties get, meaning extending storm sewers and filling in the ditches.

Now we are talking about a \$100,000 to \$150,000 project.

The Sept. 2, 2020 PI Committee Minutes state that we will bring this issue back to the Committee.

Do you want to meet with us to discuss this further prior to bringing it back to the Committee?? Let us know. Thanks.

<Harvest Circle (South Leg) - Drainage Ditch & Culvert Elevations.pdf>