From:	Teresa Barnes
To:	"Mike Sweny"; "Duane Banet"; "Tim.Reber@Woolpert.com"
Cc:	Eric Pottenger; Greg Wilkens
Subject:	RE: RE: as built drawings
Date:	Wednesday, July 05, 2017 4:07:28 PM
Attachments:	20170705155417655.pdf

Mike

I understand that, in an effort to "speed things along" somewhat, a 3rd party surveyor was hired to provide a signed and sealed as-built of the storm drain pipe system.

Unfortunately, as you can see on the attached mark-up, this as-built survey has 7 pipe sections that were installed with a negative pipe slope and a section that is "not installed" at all (I realize that this pipe was removed and is being reinstalled based on the information from the previous as-built survey).

In addition, this survey states that the system comes into the existing catch basin on the west side of Kingsgate Way at an elevation of 856.87. However, the pipe that continues east under Kingsgate Way has an elevation of 858.89. This means that the system from Texas Road House is 2-feet below the "outlet" of the catch basin.

While the current as-built survey has a maximum negative slope of -0.27%, given the issue at structure 1.0, it is unlikely that the system will be able to function as designed.

At this time, there are several things that will need to occur:

1. Have a third survey done. Provide this information on an updated drawing that shows all invert and top of grate information and the calculated slopes of each run of pipe. This drawing will need to be signed and sealed by a licensed surveyor.
2. Have the system analyzed to determine a Hydraulic Grade Line and determine the maximum 100-year water surface elevation within the detention basin. These calculations will need to be signed and sealed by a licensed civil engineer.
3. Determine "where the water will go" should the basin overflow.
4. If "fixes" are necessary – what are they and what timetable will they be completed on.

Let me know if you have any questions.

THANKS

Teresa

Teresa K. Barnes, P.E., CPESC
DESIGN ENGINEER
1921 Fairgrove Avenue
Hamilton, OH 45011

513-785-4142
Fax 513-867-8549

barnest@bceo.org

From: Mike Sweny [mailto:mike.sweny@buffaloconstruction.com]
Sent: Wednesday, July 05, 2017 9:05 AM
To: Teresa Barnes
Subject: Fwd: RE: as built drawings

From: Wilson, Mike <mike.wilson@cecinc.com>
Sent: Wednesday, July 5, 2017 9:02:51 AM
To: Mike Sweny
Subject: RE: as built drawings

Here you go. Good luck!

Michael Wilson, P.S. / Senior Project Manager
Civil & Environmental Consultants, Inc.
5899 Montclair Blvd. · Cincinnati, OH 45150
Toll-Free: 800-759-5614 · Direct: 513-483-3538 · Fax: 513-985-0228
Mobile: 513-518-1184 · http://www.cecinc.com
Senior Leadership · Integrated Services · Personal Business Relationships

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From: Mike Sweny [mailto:mike.sweny@buffaloconstruction.com]
Sent: Monday, July 3, 2017 5:58 PM
To: Wilson, Mike <mike.wilson@cecinc.com>
Subject: Fwd: as built drawings

Sent from my Verizon 4G LTE smartphone

-------- Original message --------
From: Chuck Collins <ccollins@diggit-inc.com>
Date: 7/3/17 3:42 PM (GMT-05:00)
To: Mike Sweny <mike.sweny@buffaloconstruction.com>
Subject: Fwd: as built drawings

Sent from my iPhone

Begin forwarded message:

> **From:** "Gary Spencer" <gspencer@diggit-inc.com>
> **To:** "barnest@bceo.org" <barnest@bceo.org>, "Chuck Collins" <ccollins@diggit-inc.com>
> **Cc:** "Matt Daniels (mdaniels@meridianrealtycap.com)" <mdaniels@meridianrealtycap.com>
> **Subject: FW: as built drawings**
>
> As builts for Texas Roadhouse
>
> **Gary Spencer**
> Senior Estimator
> Off. 513-934-0478 ext. 2 #
> Fax 513-934-0610
> Cell 513-383-2568
>
> Teresa K. Barnes, P.E., CPESC
> DESIGN ENGINEER
> 1921 Fairgrove Avenue
> Hamilton, OH 45011
>
> 513-785-4142
> Fax 513-867-8549
> barnest@bceo.org
>
> ---
>
> **From:** Reber, Tim [mailto:Tim.Reber@Woolpert.com]
> **Sent:** Thursday, June 29, 2017 9:32 AM
> **To:** Chuck Collins <ccollins@diggit-inc.com>; Matt Daniels (mdaniels@meridianrealtycap.com) <mdaniels@meridianrealtycap.com>
> **Cc:** Wade Brown <wbrown@diggit-inc.com>; Gary Spencer <gspencer@diggit-inc.com>; Iwaniuk, Brian <Brian.Iwaniuk@Woolpert.com>
> **Subject:** RE: as built drawings
>
> See attached for reference.

Tim Reber, PE
Senior Associate
Project Manager | Design Services
D: 630.693.6350 | M: 773.517.5308
tim.reber@woolpert.com

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1815 South Meyers Road Suite 950 | Oakbrook Terrace, IL 60181
woolpert.com

From: Reber, Tim
Sent: Wednesday, June 28, 2017 5:09 PM
To: 'Chuck Collins' <ccollins@diggit-inc.com>; Matt Daniels (mdaniels@meridianrealtycap.com) <mdaniels@meridianrealtycap.com>
Cc: Wade Brown <wbrown@diggit-inc.com>; Gary Spencer <gspencer@diggit-inc.com>; Iwaniuk, Brian <Brian.Iwaniuk@Woolpert.com>
Subject: RE: as built drawings

We'll have the volume calculation to you in the morning, but below are the initial comments to the Storm Sewer:

- 1.2 – Raise invert 0.50' to match design grade
- 1.3 – Lower invert 0.20' to match design grade
- 1.4 – Raise invert 0.34' to match design grade
- 1.5 – raise invert 0.42' to match design grade
- 1.17 – structure missing or covered

We are available to discuss in the morning.

Thanks

Tim Reber, PE
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Project Manager | Design Services
D: 630.693.6350 | M: 773.517.5308
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From: Chuck Collins [mailto:ccollins@diggit-inc.com]
Sent: Wednesday, June 28, 2017 11:44 AM
To: Reber, Tim <Tim.Reber@Woolpert.com>; Matt Daniels (mdaniels@meridianrealtycap.com) <mdaniels@meridianrealtycap.com>

Cc: Wade Brown <wbrown@diggit-inc.com>; Gary Spencer <gspencer@diggit-inc.com>
Subject: as built drawings

Tim any word on storm calculations I have received multiple calls asking for updates

Chuck Collins

Operations manager
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