From:	Reber, Tim
To:	Teresa Barnes; "Duane Banet"; "mike.sweny@buffaloconstruction.com"
Cc:	Eric Pottenger; Greg Wilkens; "ccollins@diggit-inc.com"; Iwaniuk, Brian
Subject:	RE: RE: as built drawings
Date:	Tuesday, July 11, 2017 6:25:05 PM
Attachments:	075566-ASBUILT COMPARISONS-7.11.17.pdf

Teresa, attached are the signed HGL calcs, as-built drawings with slopes included, and pond volume calcs for your review.

For the fixes we will need to adjust the structures 1.2 and 1.3 to the noted inverts we show on the plan. Also, we'll need to adjust the pond on the east end to get another 0.06 ac-ft of storage.

I will call you in the morning to discuss next steps.

Thanks for your help.

Tim Reber, PE
Senior Associate
Project Manager | Design Services
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From: Teresa Barnes [mailto:BarnesT@bceo.org]
Sent: Monday, July 10, 2017 2:45 PM
To: 'Duane Banet' <Duane.Banet@TexasRoadhouse.com>; 'mike.sweny@buffaloconstruction.com' <mike.sweny@buffaloconstruction.com>; Reber, Tim <Tim.Reber@Woolpert.com>
Cc: Eric Pottenger <PottengerE@bceo.org>; Greg Wilkens <WilkensG@bceo.org>; 'ccollins@diggit-inc.com' <ccollins@diggit-inc.com>; Iwaniuk, Brian <Brian.Iwaniuk@Woolpert.com>
Subject: RE: RE: as built drawings

Tim

In the email below, it was stated that you expected for BCEO to receive the required items for the Texas Roadhouse site.
I wanted to send a quick note to let you know that, as of 3:30 pm, Monday, July 10, 2017, I have not received any of the required documentation.

As previously stated, the required items are:

1. A signed and sealed storm water system as-built drawing. This drawing would include all of the pipe inverts, tops of grates and pipe slopes for the storm drain pipe system on the site.
2. A HGL calculation of the as-built system and determination of the 100-year water surface elevation within the detention basin. These calculations are also required to be signed and sealed by a civil engineer.
3. Dependent on the HWL elevation, if necessary, documentation of where the overflow water will go.
4. Explanation of any "fixes" necessary within the system.

The email received late on Friday afternoon simply had a single page that provided the inverts and tops of grates of the structures. Slopes were not provided and the page was not signed and sealed. Therefore, at this point in time, BCEO has not received any of the required items for review.

Once these times are received and reviewed, further discussion about the CO will take place
Let me know if you have any questions.
Teresa

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barnest@bceo.org

From: Reber, Tim [mailto:Tim.Reber@Woolpert.com]
Sent: Friday, July 07, 2017 3:49 PM
To: Teresa Barnes <BarnesT@bceo.org>; 'Mike Sweny' <mike.sweny@buffaloconstruction.com>; Duane Banet <Duane.Banet@TexasRoadhouse.com>
Cc: Eric Pottenger <PottengerE@bceo.org>; Greg Wilkens <WilkensG@bceo.org>; Iwaniuk, Brian <Brian.Iwaniuk@Woolpert.com>; Chuck Collins <ccollins@diggit-inc.com>
Subject: RE: RE: as built drawings

Teresa, attached are the recent as-builts performed by Woolpert. The storm sewer and structures look good based on design intent. See below for responses to the 4 items you mentioned.

Please call me with questions.

Thanks for your help.

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. Drawing attached. Will send stamped version asap.
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. Will have this to you Monday. Based on review, the storm sewer meets design intent.
3. Determine "where the water will go" should the basin overflow. HWL will be modeled as well, based on revised weir construction.
4. If "fixes" are necessary – what are they and what timetable will they be completed on. At this time, based on my review ,no fixes are need to the storm sewer or structures. We will finalize pond volume calculations on Monday.

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From: Teresa Barnes [mailto:BarnesT@bceo.org]
Sent: Thursday, July 06, 2017 6:41 AM
To: Reber, Tim <Tim.Reber@Woolpert.com>; 'Mike Sweny' <mike.sweny@buffaloconstruction.com>; 'Duane Banet' <Duane.Banet@TexasRoadhouse.com>
Cc: Eric Pottenger <PottengerE@bceo.org>; Greg Wilkens <WilkensG@bceo.org>; Iwaniuk, Brian <Brian.Iwaniuk@Woolpert.com>

Subject: RE: RE: as built drawings

I have attached a clean copy of the as-builts that were provided – unfortunately, the elevation written is clearly an 856.87.
BCEO cannot just make an assumption that this is another "typo".
Please verify the elevations.
Teresa

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From: Reber, Tim [mailto:Tim.Reber@Woolpert.com]
Sent: Wednesday, July 05, 2017 4:47 PM
To: Teresa Barnes; 'Mike Sweny'; 'Duane Banet'
Cc: Eric Pottenger; Greg Wilkens; Iwaniuk, Brian
Subject: RE: RE: as built drawings

FYI, the elevation on the mark up at the west side of Kingsgate is 858, per the text on the drawing. There is not a 2' elevation difference per the design and the construction.

We will take the items listed below into consideration before certifying the as-builts.

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From: Teresa Barnes [mailto:BarnesT@bceo.org]
Sent: Wednesday, July 05, 2017 3:07 PM
To: 'Mike Sweny' <mike.sweny@buffaloconstruction.com>; 'Duane Banet' <Duane.Banet@TexasRoadhouse.com>; Reber, Tim <Tim.Reber@Woolpert.com>
Cc: Eric Pottenger <PottengerE@bceo.org>; Greg Wilkens <WilkensG@bceo.org>

Subject: RE: RE: as built drawings

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

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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

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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.

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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

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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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