ChoiceOne Engineering

Date
August 05, 2021

Attention
Eric Pottenger
Development/
Storm Water Manager

Address
Butler County Engineer's Office
1921 Fairgrove Avenue (Ohio 4)
Hamilton, OH 45011

Subject
Bridgewater Landings
Disposition of Comments

Dear Mr. Pottenger:

Below are the review comments we received from the County on July 22, 2022. We have included how we addressed each comment and have attached the final plans along with this disposition of comments.

Storm Calculation Comments

1.) Need proposed drainage area map for storm sewer system.
Drainage area map has been included with this submittal.

2.) Provide velocity (ft/sec) within pipe.
Velocity within pipe has been added.

Plan Comments
Sheet 1:

1.) Who is responsible for SWPPP submittal? This will be required prior to plan approval.
SWPPP has been included with this submittal.

2.) We figure 4.9 acres of disturbance, including lot grading, storm sewer and sanitary sewer installation.
EDA has been updated.

W. Central Ohio/E. Indiana
440 E. Hoewisher Rd.
Sidney, OH 45365
937.497.0200 Phone

S. Ohio/N. Kentucky
8956 Glendale Milford Rd., Suite 1
Loveland, OH 45140
513.239.8554 Phone

www.CHOICEONEENGINEERING.com

Sheet 2:

3.) R/W label.
This was labeled wrong. We have updated the label to indicate a 30' access easement on each side of the centerline now.

4.) Dimensions on typical section.
Dimension was incorrect, it has been adjusted to 11.5'.

Sheet 5:

5.) Add ODOT's new cur ramp detail/specifications.
Curb ramp details/specifications have been added to the plans and reference on the title sheet.

Sheet 7:

6.) Pavement marking detail at intersection.
Pavement marking detail has been added to the plans.

Sheet 9:

7.) Casey's site plan depicts 12" aggregate base with 8" non-reinforced concrete pavement (driveway apron considered heavy-duty / truck traffic.
Pavement composition for concrete drives has been revised.

8.) Water connection requires utility permit from Mark Conner, BCEO utility coordinator. LSM backfill will more than likely be required.
Noted, we'll be sure to fill in the developer with this information.

9.) Water main and sanitary sewer main realignment suggestions.
We met via zoom and discussed why we'd like to leave the current alignment as-is along with the sanitary alignment. Our consensus after that meeting was that our current alignment is allowable if we move the water main to the curb lawn and not under the road for the first stretch.

10.) Provide pavement marking details, consider sheet 7 of 13. Pavement markings on this sheet would be difficult to view with hatch markings.
Pavement marking detail has been added to the plans.

11.) Provide centerline curve information.
Curve information has been labeled.

12.) Storm alignment suggestion.
We discussed this as well in our zoom meeting. We are going to keep the storm as it was shown in our first submittal within the roadway portion.

13.) Based on preliminary site plans provided, this CB will be inside driveway apron. Relocate CB so it will be outside limits of driveways.
We have been coordinating with site design for lot 2 and have moved the CB outside of the driveway for that lot.

14.) BCEO drop curb type C-1.
Drop curb has been added/labeled for the driveway areas.

15.) Consider elimination of two manholes and run storm from CB-3 modified directly to headwall.
We discussed this alignment in our zoom call as well. We'd like to keep the storm running along the property line in case of future development on the north lots.

16.) Swale to detention basin & slope erosion is a major concern. Consider odot type 3 paved gutter (with baffles) to bottom of detention basin. Bottom of slope will need rock "stilling" basin.
We've adjusted the outlet portion of the storm sewer. We are now outletting the water closer to the detention basin bottom. We have two manholes with elevation differences between the outlets and inlets to allow water to dissipate in two consecutive manholes before outletting into the detention basin as well.

Sheet 11:

17.) ODOT Type 3 gutter (with baffles). Rock "stilling basin" at toe of slope/bottom of basin.
See above response.

Sheet 13:

18.) Turn off hatch boundary line.
Hatch boundary line has been turned off.

19.) Provide ODOT's BP-7.1 sidewalk/curb ramp detail. We have been having a lot of issues with contractor not being able to meet BP-7.1 grade due to design of curb & adjacent grading. You should take a close look at design of curb ramp & sidewalk.
SCD BP-7.1 was added to the title sheet, the details themselves were added to the plans in general details sheets, and we have added an walk elevation detail on the intersection details.

20.) Minimum county standard cul-de-sac radius is 40-ft.
We ran the design by the Fairfield Township fire department, and they are ok with the current radius shown. We will proceed with the 29.5' radius.