

From: [Rob Gordon](#)
To: [Genna Porter](#)
Subject: FW: Eng Review - Bojangles Market St
Date: Tuesday, May 06, 2014 5:38:58 PM
Attachments: [image002.png](#)

Please post these comments to protrak. Thanks.

Robert Gordon, PE
Project Engineer
City of Wilmington/Engineering
(910) 341-5856

From: Rob Gordon
Sent: Tuesday, May 06, 2014 5:38 PM
To: dhollis@hdsilm.com
Cc: Derek Pielech; Jeff Walton
Subject: Eng Review - Bojangles Market St

Engineering has reviewed the plans for the Bojangles project and offer the following comments:

1. The 900 sf allocation is listed as "safety, misc" on the site data table (in the plans), but as a future allocation on the application. Is the 900 sf part of the current plan or is it being proposed only as a future allocation. Please clarify.
2. The resolution on the plans did not scan or print well. It was mostly acceptable for review, although the numbers on some of the details is not legible. Please try and improve the quality on the next submittal.
3. The inlet DA map indicates the building sheds water in a number of directions. These buildings tend to have flat roofs. I see there are roof drain lines on the West side of the building, are there roof drains on the other sides or does the entire roof shed to the
4. There is a very minor (5 sf) discrepancy with the impervious area between the site data table/application and the detail sheets & calcs. Please clarify on the next submittal.
5. City technical standards require there be at least 6" between the top of the riser and the emergency spillway. The plans/calcs only show 0.3' (38.0 – 37.7). Please revise.
6. Please provide a detail of the emergency spillway .
7. We are going to need additional detail in the routing report. The summary report does not give the CN values or the storm depth. We only need the 10-yr storm in the blocked condition.
8. The discharge point is a concern. I met with the owner and his consultant in Feb and did determine that the outfall was an appropriate point of discharge, but the following will need to occur. These items must be specified on the Bojangles plans and will require completion prior to c/o.
 - A private drainage easement will need to be recorded over the outfall ditch (this was being actively worked on as of my last correspondence).
 - The ditch will need to be cleaned out and (re)stabilized. This is especially important with the current pond design. There is 0.2-0.3 ft of fall between the permanent pool and the outfall. The outfall is functional, but overgrown with woody vegetation. Even a small obstruction in the channel could back water above

permanent pool and impact available storage volume.

9. Please add the following notes to the plan:
 - As part of site improvements for a subdivision or site plan, any broken or missing sidewalk panels, driveway panels, and/or curbing adjacent to the project area shall be replaced by the developer. This shall be required whether the damage existed prior to the start of construction or may have been caused during construction.
 - Per the requirements of the stormwater permit, the following shall occur prior to issuance of a certificate of occupancy or operation of the permitted facility.
 - As-built drawings for all stormwater management facilities shall be submitted to the City of Wilmington Engineering Division.
 - An Engineer's certification shall also be submitted, along with all supporting documentation that specifies, under seal that the as-built stormwater measures, controls and devices are in compliance with the approved stormwater management plans.
 - A final inspection by City of Wilmington Engineering personnel.
 - All required easement maps shall be reviewed by City staff and recorded prior to issuance of a certificate of occupancy.
10. The aquatic planting specifications do not cover all the requirements of 6.4.1 & 6.4.2 in the BMP manual.
11. A 5' landscape zone and 10' access shoulder is required around the perimeter of the pond. The access shoulder would not be required adjacent to the paved drive aisle.
12. The landscape plan does not address the pond. Please demonstrate how the project satisfies the requirements of SD 15-16.

Please submit one copy of revised plans, calcs and forms to Engineering for additional review. Please call or email if there are any additional questions. Thank you.

Robert Gordon, PE
Project Engineer

City of Wilmington, Engineering Division
212 Operations Center Drive
Wilmington, NC 28412
Office: (910) 341-5856 | Fax: (910) 341-5881
Email: rob.gordon@wilmingtonnc.gov
www.wilmingtonnc.gov



Follow us on Facebook or Twitter

[facebook/cityofwilmington](https://www.facebook.com/cityofwilmington)

[@cityofwilm](https://twitter.com/cityofwilm)