

Genna Porter

From: Rob Gordon
Sent: Sunday, January 17, 2016 5:51 PM
To: Matt Lowder
Cc: Davis, Wade; Genna Porter; Jeff Walton
Subject: RE: Eng review - Autozone - Oleander

Engineering has reviewed the 12/30 submittal for the Autozone project and have only one remaining comment:

- The project still does not appear to meet the overflow requirements. The spillway meets the 50 & 100 yr freeboard requirements, but an emergency spillway is only supposed to discharge in storms greater than the 25-yr storm per City Technical standards. In this case, it is discharging in the 10 & 25-yr events. Because of the small drainage area to the basin, I might ordinarily let this go as it has a low risk for embankment failure. However, because the basin discharges offsite to private property, it does not constitute an “appropriate point of discharge” unless that discharge point has a recorded drainage easement (this does not). Please either re-design the rear basin so the spillway is not activated by the 25-yr storm or obtain a drainage easement for the 10 & 25-yr discharge.

Please email (or file transfer) the revised plan sheets and a full set of sealed calcs along with any revised forms (if they change). No additional hard copies will be required. I will try to the final review the same day it is resubmitted, but will commit only to a two business day turnaround. Please call or email if there are additional questions.

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

From: Rob Gordon
Sent: Friday, January 15, 2016 5:03 PM
To: 'Davis, Wade' <wade.davis@autozone.com>; Matt Lowder <mlowder@trianglesitedesign.com>
Subject: RE: Eng review - Autozone - Oleander

Reviewing right now. I'm working tomorrow, so it'll be completed then.

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

From: Davis, Wade [<mailto:wade.davis@autozone.com>]
Sent: Friday, January 15, 2016 4:42 PM
To: Rob Gordon <Rob.Gordon@wilmingtonnc.gov>; Matt Lowder <mlowder@trianglesitedesign.com>
Subject: RE: Eng review - Autozone - Oleander

Rob,

Any luck reviewing our project submittal today?

Thanks,

Wade Davis
AutoZone Store Development
Customer Satisfaction

AutoZone, Inc.
123 South Front Street, Floor 3
Memphis, TN 38103
(901) 495-8701 (direct)
(901) 495-8969 (fax)
(901) 268-1058 (cell)
wade.davis@autozone.com



From: Rob Gordon [<mailto:Rob.Gordon@wilmingtonnc.gov>]
Sent: Friday, January 15, 2016 7:00 AM
To: Matt Lowder <mldowder@trianglesitedesign.com>; Davis, Wade <wade.davis@autozone.com>
Subject: RE: Eng review - Autozone - Oleander

I have several permits to write, but I will try to look at it today.

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

From: Matt Lowder [<mailto:mldowder@trianglesitedesign.com>]
Sent: Thursday, January 14, 2016 2:03 PM
To: Rob Gordon <Rob.Gordon@wilmingtonnc.gov>; wade.davis@autozone.com
Subject: Eng review - Autozone - Oleander

Rob-

Checking in to see if there is an update on the status of the review for the AutoZone site on Oleander Drive. AutoZone has closed on the property and they are anxious to begin construction at the site.

Thanks for your help,

Matt Lowder, PE
Triangle Site Design, PLLC

4006 Barrett Drive, Suite 203
Raleigh, NC 27609
919-553-6570 (o)
919-333-5729 (m)
mlowder@trianglesitedesign.com

From: Rob Gordon [<mailto:Rob.Gordon@wilmingtonnc.gov>]
Sent: Wednesday, January 06, 2016 9:01 AM
To: Matt Lowder <mlowder@trianglesitedesign.com>
Subject: RE: Eng review - Autozone - Oleander

I did receive the submittal and will look at it as soon as I am able. I indicated it would not go back through the full queue, but it might be a couple weeks because I have a few projects that are close to 60 days and I have to complete those reviews first.

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

From: Matt Lowder [<mailto:mlowder@trianglesitedesign.com>]
Sent: Tuesday, January 05, 2016 10:53 AM
To: Rob Gordon <Rob.Gordon@wilmingtonnc.gov>
Subject: Eng review - Autozone - Oleander

Rob-

Just following up with you to be sure you received everything you need for the review of the AutoZone site on Oleander and when you expected to have the review of the project completed.

Thanks

Matt Lowder, PE
Triangle Site Design, PLLC
4006 Barrett Drive, Suite 203
Raleigh, NC 27609
919-553-6570 (o)
919-333-5729 (m)
mlowder@trianglesitedesign.com

From: Rob Gordon [<mailto:Rob.Gordon@wilmingtonnc.gov>]
Sent: Tuesday, December 22, 2015 1:12 PM
To: mlowder@trianglesitedesign.com
Subject: FW: Eng review - Autozone

It came to me again, let's see if this works...

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

From: Rob Gordon

Sent: Tuesday, December 22, 2015 1:09 PM

To: Matt Lowder ; 'wade.davis@autozone.com' <wade.davis@autozone.com>

Cc: Jeff Walton <jeff.walton@wilmingtonnc.gov>; Genna Porter <genna.porter@wilmingtonnc.gov>; David Cowell <david.cowell@wilmingtonnc.gov>; Bill McDow <bill.mcdow@wilmingtonnc.gov>; Bret Russell <Bret.Russell@wilmingtonnc.gov>

Subject: Eng review - Autozone

Engineering has reviewed the plans for Autozone and have the following comments:

1. The response to the request for administrative waiver for the driveway is attached.
2. There is a property owner listed on the application. If Autozone is purchasing the property and Oleander West, LLC will not be involved with the project after sale of the property, it would be best to remove them from the application. If appropriate, please remove them from p2 & p6 of the application and resubmit. No additional signatures would be required. If Oleander West will remain the property owner, then the application is completed properly and you may disregard this comment.
3. As designed, the infiltration basin does not meet City technical standards. The proposed system is required to pass the 50-yr storm (6" of freeboard) as well as the 100-yr event (no freeboard req'd). You could either raise the embankment or provide a low wall to increase the surface area to provide more infiltration. Also, as discussed – some of the roof runoff can be directed to the pervious concrete later for treatment. Please revise the system as necessary to meet standards.
4. The stormwater control measure does is not required to be placed in an easement if there is only one owner utilizing the basin.
5. Valley curb is fine for the majority of the site, but it is not sufficient around the perimeter of landscape areas as it does not provide adequate protection from vehicles. Please transition to a vertical curb or other vertical barrier.
6. Your sidewalk detail appears to meet all of our standards, but please require all sidewalk installed meet (your detail) or City SD 3-10, whichever is more stringent.
7. Meters are not typically allowed in the sidewalk. Consideration may be given for the narrow r/w depth. The exact location shall be resolved between the City and CFPUA inspectors in the field. Please add a note to that effect.
8. Note Only - The plan does not provide the required 10' backing stub behind the spaces in front of the store as required by city technical standards. They do, however, provide an at grade walking path and an extra wide drive aisle that would facilitate a backing movement in lieu of the 10' stub. There may be some safety concerns with a pedestrian walkway/backing area conflict, but Engineering will accept the configuration if it is acceptable to the design Engineer and City transportation planning.
9. Note Only – The only predevelopment calculation that is necessary is the 1-yr event. The site is not required to meet attenuation requirements for the other storms. However, predevelopment condition must be assumed as woods in good condition (CN 55 for B soils).
10. Note Only - It is not clear why hydrographs 5 & 6 are being submitted. Hydrographs 1-3 appear to be providing all the information we need. 5 & 6 may be omitted on the next submittal.
11. Note Only – the supplement does not need to be provided within the calc set, it is a form that becomes part of the permit.
12. In addition to comment 3 above, City technical standards require the overflow of an infiltration system be designed to pass the 10-yr storm assuming the basin does not infiltrate. You can simply provide a calc that shows the spillway passes 10-yr post flow (routing neglected) or a separate routing analysis that takes into account the attenuation storage volume.

Please provide revised plans, a complete set of sealed calcs and any revised forms to Engineering for additional review. I will try to turn around the review without having to put the project back through the full review queue, but there will be a delay because of the holidays. Please call or email if there are any questions. Thank you.

Robert Gordon, PE
Plan Review Engineer

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