

Michael,

1. Existing is acceptable. New onsite landscape areas should be depressed for water harvesting.
2. retention not required.
3. As discussed on 9-5-13, possibly grade the site with a hinge line in the middle, wherein the southern portion drains to an onsite inlet that drains to the back of the inlet on Academy Ave and the northern portion drains out the drive entrance onto San Mateo.
4. A tap is allowed with an SO-19 Permit. The SO-19 Permit is approved by Hydrology. The actual permit is obtained from our Construction Division on the 8th floor.
5. Laterals are most likely 18" or 24".
6. I don't know the inverts of the inlets. Your surveyor should provide that information.
7. McDonald's would hire a contractor to make the tap.
8. There is no finished floor requirement for FEMA, but you should be above the San Mateo top of curb and have a water block on Academy if you change that drive entrance.

Curtis Cherne, P.E., CFM
Hydrology, COA
505-924-3986

From: Michael Martinie [mailto:Michael.Martinie@Adams-Engineering.com]
Sent: Wednesday, September 04, 2013 3:32 PM
To: Cherne, Curtis
Subject: 2013.244 - McDonald's - NWC San Mateo & Academy - Drainage questions

Curtis,

Per my voicemail to you, I am performing another due diligence report for the existing McDonald's @ 6300 San Mateo NE. Currently the site is surface draining onto San Mateo via small flumes across the San Mateo R/W sidewalk (see attached photos). The water then gutter flows around the intersection corner into a combination inlet on Academy. Please see the attached PDF for existing drainage route.

A few questions:

1. Would matching existing flows be adequate -OR- would the 100-yr 6 hour storm max discharge rate need to be less than 2.75 CFS like the site on Central Ave?
2. How would you suggest we install retention in this situation?
3. Should we follow the same drainage pattern and drain onto San Mateo, or could we explore inlets with tapping into the back of the inlet on Academy?
4. Is a tap into the inlet on Academy allowed?
 - a. If so how much do you think it would cost?
 - b. Is there a fee charged by the city to tap?
5. What size are the laterals coming out of those inlets on the north side of Academy?
6. What are the inverts roughly on those inlets?
7. Would the city make the tap, or would McDonald's need to hire a contractor?
8. This site is in Zone X per the FEMA FIRM. There is no finished floor elevation requirements correct?

Michael Martinie
Civil EIT