From: Armijo, Ernest M.
To: "Yolanda Padilla Moyer"; Cherne, Curtis
Cc: Kevin Patton
Subject: RE: Arroyo Vista Median Calcs.
Date: Wednesday, May 12, 2021 4:19:00 PM

Yolanda,
This is good. Much better. I had looked this over and I am giving Hydrology approval of this.

ERNEST ARMIJO, P.E.
principal engineer
o 505.924.3986
e earmijo@cabq.gov
cabq.gov/planning

From: Yolanda Padilla Moyer [mailto:ypadilla@bhinc.com]
Sent: Wednesday, May 12, 2021 2:57 PM
To: Armijo, Ernest M.; Cherne, Curtis
Cc: Kevin Patton
Subject: RE: Arroyo Vista Median Calcs.

Hi Ernest. Is this better? I can try again if you want it darker still.

From: Armijo, Ernest M. <earmijo@cabq.gov>
Sent: Wednesday, May 12, 2021 2:07 PM
To: Yolanda Padilla Moyer <ypadilla@bhinc.com>; Cherne, Curtis <CCherne@cabq.gov>
Cc: Kevin Patton <Kevin.Patton@PulteGroup.com>
Subject: RE: Arroyo Vista Median Calcs.

Yolanda,
I have been looking at this and could you possibly see if you can darken up sheet 2 of the package you sent. I have had a hard time reading the handwritten notes on there. I am inclined to allow this but I want to make sure I have all the info laid out.

ERNEST ARMIJO, P.E.
principal engineer
o 505.924.3986
e earmijo@cabq.gov
cabq.gov/planning

From: Yolanda Padilla Moyer [mailto:ypadilla@bhinc.com]
Sent: Monday, May 10, 2021 10:34 AM
To: Cherne, Curtis; Armijo, Ernest M.
Cc: Kevin Patton
Subject: FW: Arroyo Vista Median Calcs.

Hello Curtis and Ernest,
I wanted to see if you all had a chance to review and if there were any questions.

Can you please provide an update?

Thanks
Yolanda

From: Yolanda Padilla Moyer
Sent: Wednesday, April 21, 2021 1:44 PM
To: Armijo, Ernest M. <earmijo@cabq.gov>; Cherne, Curtis <CCherne@cabq.gov>
Cc: Kevin Patton <Kevin.Patton@PulteGroup.com>
Subject: Arroyo Vista Median Calcs.

Hi Curtis and Ernest,

Per our previous conversations, enclosed are the calculation for a side weir to determine how wide an opening will be needed to collect the flow in Arroyo Vista and be captured by inlet within the median. It was determined that yes the roadway section can hold the total flow of 27.99. We have 34 curb 6" curb openings which will accept approx. 0.5cfs per opening. With that there will be 10.99cfs remaining in Arroyo Vista as it approaches the inlet location. Per the side weir calculation an approx. 15.76' opening will be needed to collect the remaining flow. When we first spoke we had discussed removing a couple of stone of curb and to replace it with rundown curb. This calculation is in line with our original thought.

Side weir calcs are primarily used for a large channel\conveyance (i.e river) where they are trying to divert flow to somewhere else. They provide a side weir vertically offset from the bottom on the channel to divert a certain amount of flow. I was able to use the calculation in a simplified equation to calculate the width of the opening based on the flow depth and the known Q. This equation does not utilize the side slope\cross-slope of the roadway which I assume would only help divert the flow if it were taken into account.

Please let me know if you have any questions.

Thanks
Yolanda