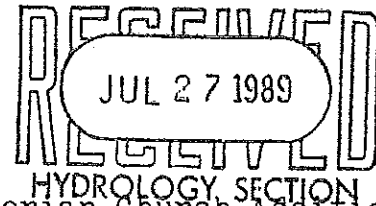


Marvin R Kortum
1605 Speakman Drive SE
Albuquerque, New Mexico 87123
NMPE 6519
(505) 299-0774

July 20, 1989

City of Albuquerque, New Mexico
Design Hydrology Division
Public Works Department
Albuquerque, New Mexico 87103



REFERENCE: Drainage Plan for Second Presbyterian Church Addition
(J-14.D84)

Dear Mr Montoya:

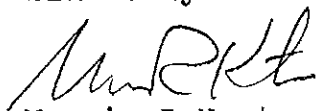
This letter is in reply to your comments provided by letter dated July 18, 1989, subject as above. The paragraph numbers below correspond to the question numbers in your letter.

1. The finished floor elevations of the new addition are all 4976.00, except for steps and ramps which are necessary to transition to the various elevations in the older building.
2. Detail of the notch in the block wall at the sidewalk culvert on Page Avenue are now shown.
3. The option of placing the underground pipe and inlet at a later date are now noted on the drawing. A note also indicates that a swale will be placed if the owner elects to not place the pipe at this time.
4. I request your reconsideration of the requirement for a more permanent swale immediately north of the main church building. First, the present swale is unlined, and has not created any notice of a problem. Second, the flow estimated for the addition is less than that estimated for the present configuration. The reason for adding the liner at this time is to preclude any threat of litigation should a problem develop related to the new construction. Third, the church hopes to eventually purchase the adjacent property, so the present solution can be expected to be in place possibly 5 to 10 years. Fourth, I believe that the proposed liner is a durable and economical material. Test show the membrane can withstand 300% stretching without breaking. During construction, The material will withstand minor abuse, such as walking on it or dropping of hand tool, and placing of rock, which must be done by hand due to the limited work area. After the rock is in place, of course, the material is much less subject to abuse. The rock cover can be brought to a fairly level and stable configuration. The area is also not subject to any significant pedestrian traffic, the area is fenced and locked routinely. It is also noted that the material could have minor punctures and still function as an effective swale liner. Leakage during the brief periods that water is flowing across the membrane will be very little. It is not intended to perform as a pond liner in the called for construction. Attached is a sample of the material for your inspection.

5. The flows from the end of the lined swale are now to be conveyed to Edith Blvd. by a channel and under sidewalk culvert, this change being made as a result of your comment.

If you have any questions regarding the above answers to your comments, please contact me at 299-0774

Sincerely

A handwritten signature in dark ink, appearing to read 'M. R. Kortum', written in a cursive style.

Marvin R Kortum