HYDROLOGY K13/D6 4 PLANS

K13/D6

4 Plans

MSM
Consultants
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A Member of the SP Group
of Professional Service Companies

Engineering, Surveying, Planning,
and Energy Management

July 21, 1982

Mr. Fred Aguirre
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

RE: Large Cat Exhibits - Rio Grande Zoo
(K13-D6)

Dear Fred:

In response to your June 7, 1982 letter to Channell Graham regarding the referenced project MSM Consultants, Inc. submits the following comments based primarily on a site investigation.

1. Drainage Basin Affecting The Site

Existing State

The project site is on a ridge and therefore, is not affected by any runoff other than that which falls directly on it. There is an existing road through the proposed site which generally defines the ridge line. Runoff north of the road flows to the northeast, and runoff south of the road ponds between the road and an existing rock wall. A portion of this road will be removed and the exhibit will be constructed in its place. As a result, there is not a significant increase in amount of impervious area due to the proposed construction.

Developed State

The majority of the exhibit is self ponding. The only impervious areas are the visitor's walk north of the exhibit and the roof and walkway which constitute the keeper's area on the south side of the exhibit.

The visitor's walk north of the exhibit slopes south into planting areas which pond this runoff. Therefore, this area does not contribute to the existing downstream basin and thereby reduces the impact of this development.

The roof and walkway for the keeper's area drains to the south and into the ponding area between the road and rock wall. The amount of roof and walkway which drains to the south is offset by the amount of pavement removal from the existing road. Consequently, the amount of runoff in this area is not affected by the construction of the exhibits.

2. Location And Elevation Of Spillway

Since the proposed site for the exhibit is on a ridge, a spillway discharge point does not apply in this case.

3. Vicinity Map

A vicinity map showing the proposed development's relationship with the adjacent area is attached.

Items 4 through 6 have been addressed by the Architect.

In summary, the Proposed Drainage Plan for the site offers a viable solution to the area's drainage with no adverse affects to its adjacent surroundings. We hope this response is helpful in your review of the project. If you have any questions, please call.

Sincerely,

MSM CONSULTANTS, INC.

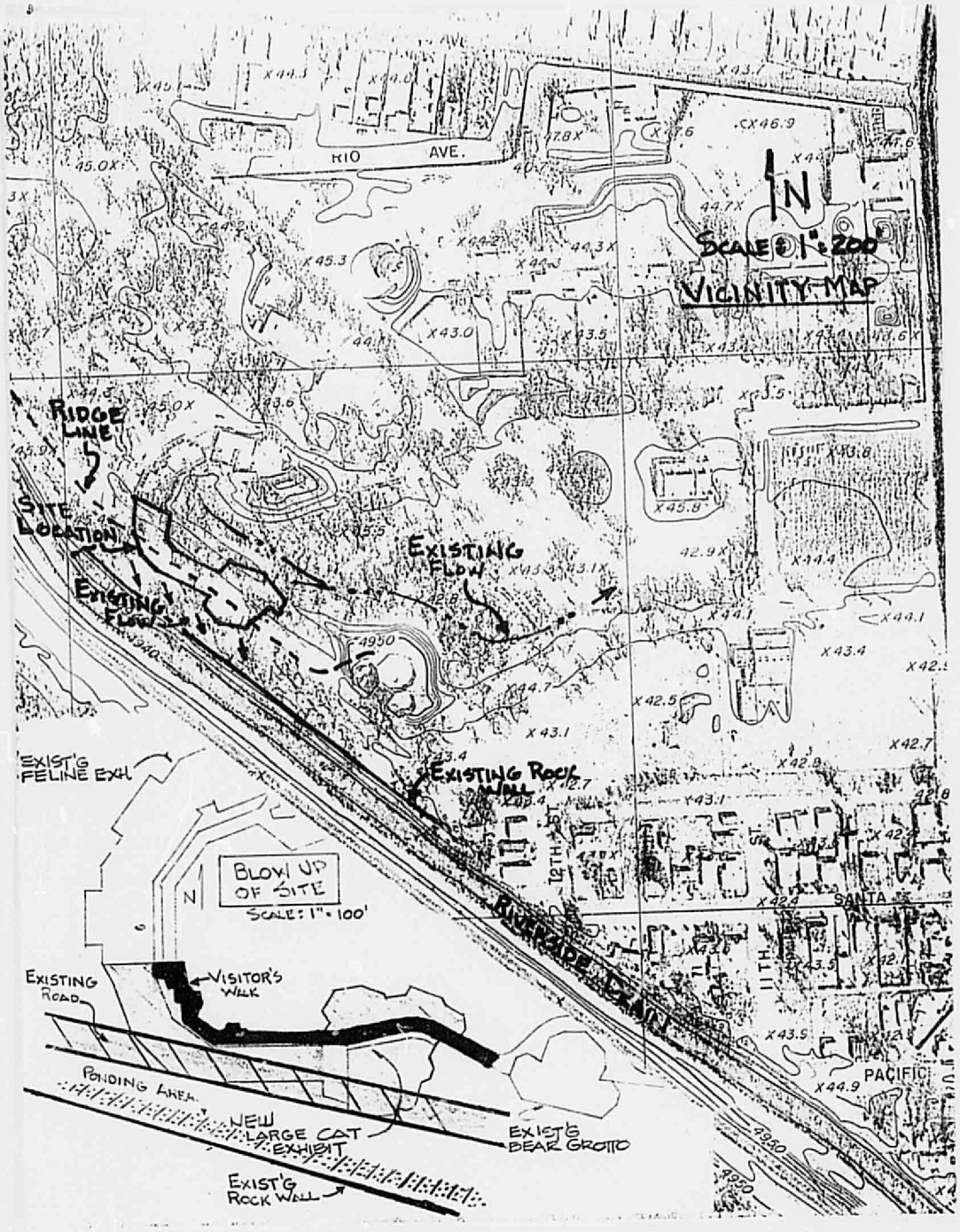
Fred Haas
Design Engineer

Reviewed by:

Jim Leymon, P.E.
Project Manager

FH:se
Attachment

JN 0640540


N
SCALE 1" = 200'
VICINITY MAP
RIDGE LINE
SITE LOCATION
EXISTING FLOW
EXISTING FLOW
EXISTING ROCK WALL
EXIST'G FELINE EXH.
BLOW UP OF SITE
SCALE: 1" = 100'
EXISTING ROAD
VISITOR'S WALK
PONDING AREA
NEW LARGE CAT EXHIBIT
EXIST'G BEAR GROTTO
EXIST'G ROCK WALL
RIVERSIDE DRIVE
12TH ST.
11TH
SANTA
PACIFIC
AVE.
4950

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 17, 1982

Channell Graham, A.I.A.
709 Central Avenue NW
Albuquerque, New Mexico 87102

RE: LARGE CAT EXHIBITS - RIO GRANDE ZOO
(K13-D6)

Dear Mr. Graham:

The following are my comments per our pre-design conference for the subject site.

(1.) The drainage basin affecting the site is not identified on the plan.

(2.) Spillway elevation nor location for this basin is not identified on the plan.

(3.) Vicinity map showing the proposed development's and the drainage basin's relationship to the adjacent street is not provided.

(4.) Finished floor elevations to M.S.L. of structures within the basin are not provided. This applies only to structures that would be damaged by any flooding.

(5.) Temporary bench mark to M.S.L. is not identified on the plan.

(6.) Proposed spot elevations are not provided with this plan. These elevations must be provided with this plan and clearly identified with the existing spot elevations to evaluate the proposed grading plan.

If you have any questions, please feel free to call me at 766-7644.

Sincerely,

Fred J. Aguirre, PE
Civil Engineer/Hydrology

FJA/el

cc: Drainage File
Reading File