

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 16, 1990

Louis Gross, P.E. Louis Gross & Associates, Inc. 925 Sixth Street, NW Suite #3 Albuquerque, New Mexico 87102

RE: REVISED DRAINAGE PLAN FOR GOLDEN EAGLE REMODEL (K-17/D64) REVISION DATED DECEMBER 26, 1989

Dear Mr. Gross:

Based on the information provided on your resubmittal of January 4, 1990, the referenced plan is approved for Building Permit and S.O. #19.

Please be advised that a separate permit is required for construction within City right-of-way. A copy of this approval letter will be needed when the contractor applies for the excavation permit.

If the building permit has already been released, you must provide the contractor with a copy of this revised, approved plan.

If you have any questions, please call me t 768-2650.

Cordially,

Bernie J. Montoya, C.E. Engineering Assistant

xc: Darlene Saavedra

BJM/bsj (WP+1513)



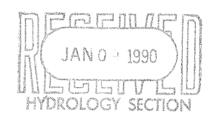
City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR

December 14, 1989

Louis Gross, P.E. Louis Gross & Associates, Inc. 925 Sixth Street, NW Suite #3 Albuquerque, New Mexico 87102



RE: DRAINAGE PLAN FOR GOLDEN EAGLE REMODEL

(K-17/D64) ENGINEER'S STAMP DATED NOVEMBER 6, 1989

Dear Mr. Gross:

Based on the information provided on your submittal of December 7, 1989, the referenced plan is approved for Building Permit, contingent on the proposed 6" pipe outfall is connected to the existing double "C" inlet. Jone - See attached plans Substitute of the second plans of the second

Please be advised that a S.O. #19 permit is required for the 6" pipe connection to the inlet, (construction within City right-of-way). Please provide the contractor with a copy of this approval letter, as it will be required when applying for the excavation permit.

If you have any questions, please call me t 768-2650.

VA. VIII IS

Gilbert Aldaz, P.E.

City/County Floodplain Administrator

GA/bsj (WP+1513)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E. Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

HYDROLOGY

100 yr - 6 hr = 2.3 in I = 2.3 * 6.84 / 3.24 = 4.86 in/hr

D.A. No. 1 (Existing & Proposed)

Area = 3,702 sf = 0.08 ac

Roof = 3,614 * 0.90 = 3,253
Natural Ground = 88 * 0.40 = 35

-----3,702 3,288

C = 3,288 / 3,702 = 0.89

Q = 0.89 * 4.86 * 0.08 = 0.35 cfs

CN = 95 Direct Run Off = 1.8 in

V = 1.8 / 12 * 3,702 = 555 cf

Flow goes to Type "D" inlet as shown on the plan.

D.A. No. 2 (Existing)

Area = 2,957 sf = 0.07 ac

C = 0.95 - All pavement

Q = 0.95 * 4.86 * 0.07 = 0.32 cfs

CN = 95 Direct Run Off = 1.8 in

V = 1.8 / 12 * 2,957 = 444 cf

D.A. No. 2 (Proposed)

Area = 2,957 sf = 0.07 ac

Landscape = 470 * 0.25 = 118
Pavement = 2,487 * 0.95 = 2,363
----2,957 2,481

C = 2,481 / 2,957 = 0.84

Q = 0.84 * 4.86 * 0.07 = 0.29 cf

CN = 95 Direct Run Off = 1.8 in

V = 1.8 / 12 * 2,957 = 444 cf - Flow goes to Central Ave.

D.A. No. 3 (Proposed & Existing)

Area = 1,961 sf = 0.05 ac

C = 0.95 - All pavement.

Q = 0.95 * 4.86 * 0.05 = 0.23 cfs

CN = 95 Direct Run Off = 1.8 in

V = 1.8 / 12 * 1,961 = 294 cf - Flow goes to Central Ave.

D. A. No. 4

Existing

Area = 4,571 sf = 0.10 ac

C = 0.95 - All pavement.

Q = 0.95 * 4.86 * 0.10 = 0.46 cfs

CN = 95 Direct Run Off = 1.8 in

V = 1.8 / 12 * 4,571 = 686 cf

Proposed

Roof = 375 * 0.90 = 338
Pavement = 4,196 * 0.95 = 3,086
-----4,571 4,324

C = 4,324 / 4,571 = 0.95

Q = 0.95 * 4.86 * 0.10 = 0.46 cfs

CN = 95 Direct Run Off = 1.8 in

V = 1.8 / 12 * 4,571 = 686 cf - Flow goes to Central Ave.

D. A. No. 5

Existing

Area = 8,994 sf = 0.21 ac

 C = 7,288 / 8,994 = 0.81

Q = 0.81 * 4.86 * 0.21 = 0.83 cfs

CN = 92 Direct Run Off = 1.5 in

V = 1.5 / 12 * 8,994 = 1124 cf

This existing drainage goes over the sidewalk to Copper Ave.

Proposed

C = 7,388 / 8,994 = 0.82

Q = 0.82 * 4.86 * 0.21 = 0.83 cfs

To inlet and 6" pipe.

6" pipe entrance capacity

With a head of 2.0 feet on the pipe, it has sufficient capacity. We have 3.0 feet of head available in inlet box.

6" pipe barrel capacity

$$A = 0.20$$
 $P = 1.57$ $R = 0.13$ $R = 0.25$

$$Q = 0.20 * 1.486 / 0.013 * 0.25 * 0.26 = 1.5 cfs$$

This flow will go through the box inlet into the 6" steel pipe then to the gutter in Copper. There is an existing double "C" inlet approximately 23 feet West of and downstream of the end of the proposed pipe.

2.45

