

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 15, 1990

Stephen Crawford
Crawford Development Service
Post Office Drawer M
Corrales, New Mexico 87048

RE: GRADING/PAVING PLAN FOR ALBUQUERQUE GYMNASTICS
(G-21/D12C) ENGINEER'S STAMP DATED MAY 10, 1990

Dear Mr. Crawford:

Based on the information provided on your submittal of May 11, 1990, the referenced drainage plan is approved for grading and paving.

Please advise your client that it will be their responsibility to assure that the proposed AC curbing must be repaired immediately, if damaged

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya
for Fred J. Aguirre, P.E.
Hydrologist

BJM:FJA/bsj
(WP+1855)

PUBLIC WORKS DEPARTMENT

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

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Albuquerque Gymnastics Paving ZONE ATLAS/DRNG. FILE #: G-21/D12c

LEGAL DESCRIPTION: Lots 11A & 11B, Block 17, Mesa Arriba Subdivision

CITY ADDRESS: 10280 Comanche Road, NE

ENGINEERING FIRM: Crawford Development Services CONTACT: Stephen L. Crawford

ADDRESS: P.O. Drawer M, Corrales 87048 PHONE: 897-0167

OWNER: Albuquerque Gymnastics School CONTACT: John Charzuk

ADDRESS: 10280 Comanche Road, NE PHONE: 293-9570

Albuquerque, NM 87111

ARCHITECT: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: Albuquerque Asphalt CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☐ YES

☒ NO

☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☒ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAINAGE PLAN

☐ GRADING PLAN

☐ EROSION CONTROL PLAN

☐ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL

☐ PRELIMINARY PLAT APPROVAL

☐ SITE DEVELOPMENT PLAN APPROVAL

☐ FINAL PLAT APPROVAL

☐ BUILDING PERMIT APPROVAL

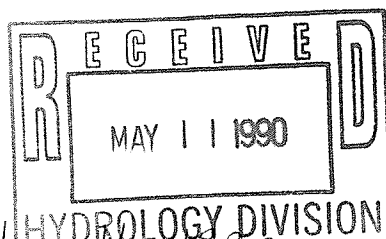
☐ FOUNDATION PERMIT APPROVAL

☐ CERTIFICATE OF OCCUPANCY APPROVAL

☐ ROUGH GRADING PERMIT APPROVAL

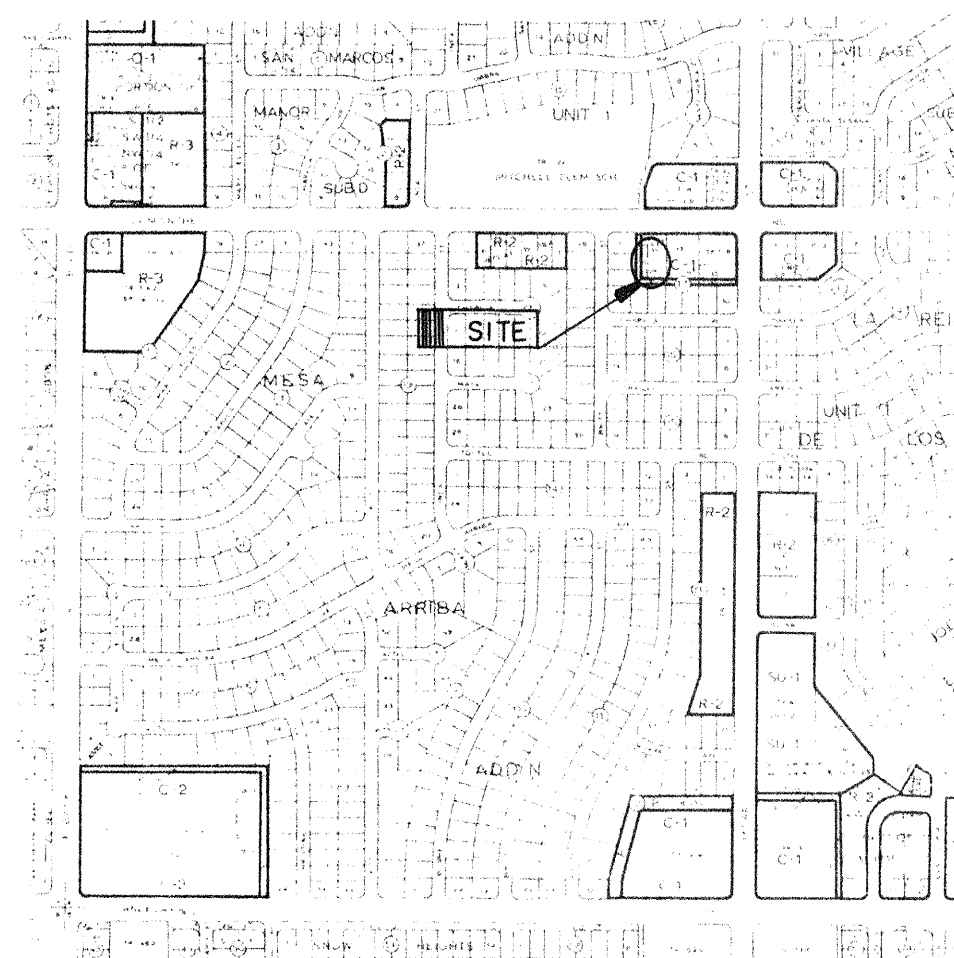
☒ GRADING/PAVING PERMIT APPROVAL

☐ OTHER _____ (SPECIFY)



DATE SUBMITTED: May 11, 1990

BY: [Signature]



NO SCALE

DRAINAGE PLAN
FOR
GRADING AND PAVING
ON
LOTS 11A + 11B, BLOCK 17
MESA ARRIBA SUBDIVISION

DRAINAGE PLAN

1. GENERAL CONDITIONS: The site is almost fully developed at this time. Offsite basins OS-2 & 3 drain directly to Comanche Road. Offsite basin OS-1 flows are currently conveyed across the subject site. The site has a building, developed parking lot and a small natural earth area in the southwest corner of the property. The proposed paving improvements will add 4340 square feet of paving to the site.

2. EXISTING FLOWS (Combined onsite and offsite):
 P100 = 2.5 INCH TC < 10 MINUTES
 I100 = 5.28, I10 = 2.99 INCH/HOUR
 A = 1.15 ACRE

$$CC = \frac{\{0.12(0.40) + 0.80(0.95) + 0.23(0.90)\}}{1.15} = 0.88$$

$$Q100 = 5.3 \text{ CFS}, \quad Q10 = 3.0 \text{ CFS}$$

3. PROPOSED FLOWS (Combined):
 $I_{100} = 5.28$, $I_{10} = 2.99$ INCH/HOUR
 $A = 1.15$ ACRE









$$CC = \{0.03(0.25) + 0.89(0.95) + 0.23(0.90)\} / 1.15 = 0.92$$

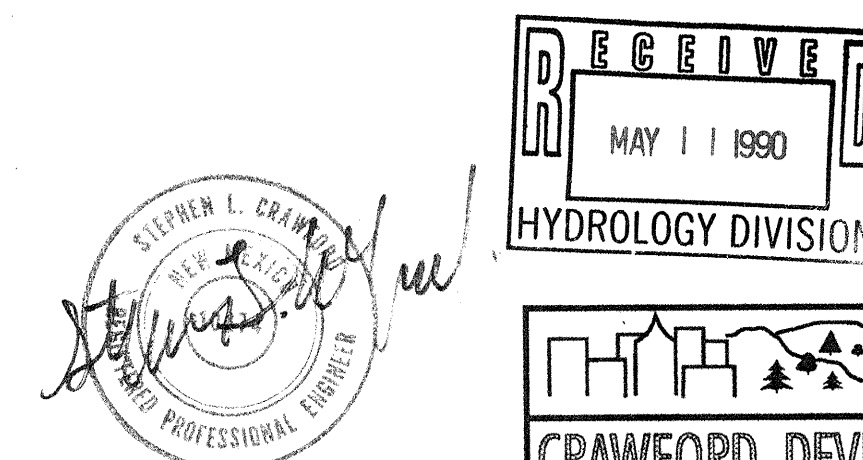
$$Q100 = 5.6 \text{ CFS}, \quad Q10 = 3.2 \text{ CFS}$$

4. CONCLUSION: The proposed paving will increase runoff by 0.2 to 0.3 cfs (depending on the storm). This will have an insignificant affect on any downstream flow depths on Comanche Road. The existing 30" sidewalk culvert can easily handle the 10-year storm with an inlet depth of 0.51' (weir, $C=3.0\sqrt{H^{1.5}}$).


BENCHMARK: ACS Station "8-G21a", a brass tablet drilled into the top of curb on the southeast return at the intersection of Comanche Road & Morris Street, NE. Elevation = 5597.68.

LEGEND

	NEW PAVING AREA
	LANDSCAPING AREA
	REMOVE & REPLACE EXIST PAVING
	ROOF FLOWS
	SURFACE FLOWS
	EXISTING ELEVATION
	PROPOSED ELEVATION
	DRAINAGE BASIN BOUNDARY
TA	TOP ASPHALT
EG	EXISTING GROUND
FL	FLOW LINE

$$\frac{2}{3} L \sqrt{25h^2}$$


5-10-90



CRAWFORD DEVELOPMENT SERVICE
P.O. Drawer M, Corrales, N.M. 87048 (505) 897-0166