

OFFICE OF THE CITY ENGINEER
BUILDING PLANS
DRAINAGE REVIEW

1800 Lomas Blvd. N.E.

Disapproved 4-8-81

DATE ISSUED _____

Gentlemen:

In order to expedite the passage of building construction plans through the drainage review we have compiled this list of requirements. With a few exceptions, these requirements are complete.

- (1) Any building site 1.00 acres or larger will require a formal drainage report prepared by a New Mexico Registered Professional Engineer competent in surface hydrology. This report must be submitted to the office of the Principal Assistant City Engineer (Hydrology) for review and acceptance prior to submission of construction plans for review. Please be advised, a pre-conference meeting will be required before the drainage report is submitted.
- (2) Before attempting to submit a set of plans for a building located in a flood hazard area, contact the Hydrology Section. Failure to do this will often result in much lost time.
- (3) When construction plans are submitted, the following items must be included:
 - (A) A GRADING PLAN SHOWING:
 - ✓ (1) Vicinity map with the zone atlas page and legal description.
 - ✓ (2) Existing contours extending approximately 10 feet beyond the property line. If it is not feasible to provide contours beyond the property line, spot elevations, at the property line, designated as existing and proposed may be substituted.
 - (3) Proposed contours at one foot intervals and proposed spot elevations at key points.

- (4) Finish building floor elevation (s).
 - (5) Notes defining asphalt, sidewalks, planting areas, ponding areas, property line, and any other areas whose definition would increase clarity.
 - ✓(6) Proposed alley grades, if property abuts a dedicated unpaved alley. These grades are available, at no charge, from the City Engineer's office. An advance request will expedite your project.
 - (7) A description of the bench mark.
 - (8) Ground Elevation on the site based on mean sea level datum as established by the U.S. Coast and Geodetic Survey (North American Datum 1929).
- (B) A DRAINAGE PLAN SHOWING:

- ✓(1) Direction of roof drainage including canals, gutters, and downspouts.
 - ✓(2) Outlined contributory drainage areas, including roof areas.
 - ✓(3) Swales with top and bottom spot elevations.
 - ✓(4) Curb and sidewalk spot elevations.
 - ✓(5) Flow lines with arrows and spot elevations for confirmation.
- (C) IF PONDING IS REQUIRED THE DRAINAGE PLAN MUST ALSO SHOW:
- (1) Calculations showing developed and undeveloped volumetric flow rate.
 - (2) Pond volume calculations.
 - (3) That pond volumes balance with area contributing to the pond.
 - (4) The pond overflow point with a spot elevation and slope protection if necessary.
 - (5) Positive discharge of ponds with required rate calculations and orifice calculations, if applicable.

NOTE: Close proximity ponding to any structure requires the concurrence of a soils investigation report.

- ✓(D) A discussion of offsite flows must be included. If the contour maps disagree with the designers opinion of offsite flows, further information will be required.
- ✓(E) A discussion of any other local conditions that effect site drainage should be included.
- (F) Details of ponds, curbcuts, water blocks, and any other significant drainage structures must be included.
- (G) The professional who designs the drainage scheme must affix his/her stamp to the drainage plan.
- ✓(H) A copy of the drainage plan must also be included with the construction plans for our drainage files.
- (I) Construction in the public right of way requires approval, prior to construction, from the City Engineers office.
- (J) Indicate all easements on site or adjacent to the site with the following information: Location, width, and purpose.
- H) Show compliance with drievpad standard