HYDROLOGY

G16/D77

G16/D77

H PLANS

CITY OF ALBUQUERQUE DRAINAGE REPORT

ZONE ATLAS NO.	NAME OF CONSTRUCTION	OBSERVER	DATE OBSERVED
	Sandia Lab Electric Apparatus	William R. Rogers	3-15-78
ADDRESS: [illegible]			

Reason for Field Check: For the Building Permit in the Inspection.

FINDINGS AND CONCLUSION: There are three footing areas on the inside, two on the outside and the other one on the West side of the Bldg. all the footing areas are OK and the Slab too.

FOLLOW UP ACTION REQUIRED: No follow-up will be need because this bldg. is final.

SKETCH:

William R. Rogers

OBSERVER

PLEASE RETURN WITH PLANS

3440-3448 GIRARD (PARCEL 1, COLE'S INDUSTRIAL SUBD #2)

STANDARD REQUIREMENTS FOR DRAINAGE PLANS

PURPOSE: The increasing volume of drainage plans submitted to this office makes it mandatory that such plans be standardized as much as possible in order to expedite reviews. This standardization is as much to the advantage of the developer and engineer as it is to the Hydrology Section which enforces the AMAFCA RES. 72-2. For parcels of land less than 20,000 sq. ft. in surface area no formal drainage report is required; the construction plans need only to include the standard form attached herein and the site drainage plan. Developers for larger parcels of land will have to submit a formal drainage report as specified in the Resolution.

RUNOFF PONDING: In most instances on site ponding is mandatory, with dispersal in the ground of the excess runoff arising from newly created impervious surfaces. The only exception allowed, is for those properties adjacent to a diversion channel which was designed for higher standard than 100 years frequency storm (existing conditions). For detailed computations of the runoff before and after development the assumed runoff coefficient recommended are C = 0.4 for undeveloped, landscaped or similar open areas and C = 0.9 for all other impervious surfaces, including areas in southwestern type landscaping with underlying polyethylene film and gravel covered parking areas where vehicular traffic will compact the soil and render it impervious. Due to the inadequacy of the existing drainage facilities in the valley area and to the limited capabilities of the City for providing relief, ponding requirements in the valley are higher than elsewhere.

COMPUTATION OF VOLUME OF RETENTION:

Valley Area = $1.0 \times \frac{2.2''}{12''} \times \text{Area (ft.)} = 0.18 \times A$

East and West Mesa = $(0.9 - 0.4) \times \frac{2.4''}{12''} \times \text{Area (ft.)} = 0.1 \times A$

In order to facilitate the design of drainage facilities, a checklist that will be followed in the review process is listed below:

CHECK LIST

1 - Flooding potential - adjacent water courses

NO Is property located in the flood plain? G16

If so, is the finished floor above the 100 yrs. flood level?

YES Is property adjacent to a natural or artificial water course?

If so, what are the specific AMAFCA or City requirements?

RETAINING WALL REQUIRED FOR POND #3 + #2 >18"

SEE SITE GRADING PLAN FOR COMMENTS.

Are drainage R.O.W or easements shown on, or in the proximity of property? If so, are there drainage problems?

2 - Relation of property to surroundings

YES Per topo map, does property intercept other drainage upstream?

If so, how is runoff conveyed across property?

May there be erosion associated with offsite runoff conveyance?

May erosion or siltation result from proposed construction activities?

Does development block drainage from adjacent property?

3 - Site grading

Does site plan show contours before development (extending a minimum of 25 ft. beyond property lines)?

Does site plan show proposed grading with adequate swale definition to convey water to ponds?

No. Is all runoff conveyed to ponding areas before it overflows to public facilities?

Does the proposed grading plan indicate that under cutting or back-filling adjacent to property lines may require retention walls?

Is there continuity between proposed new contours and old contours offsite?

? Is elevation of property line at least 0.3 ft. above top of curb?

4 - Storm water retention

Is ponding volume adequate (supply detailed computation)?

[redacted] Are ponds balanced with areas they drain (can area draining to each pond be easily identified and will actually water flow there)? The plot plan must outline each drainage area.

YES Can pond volume be computed and verified?

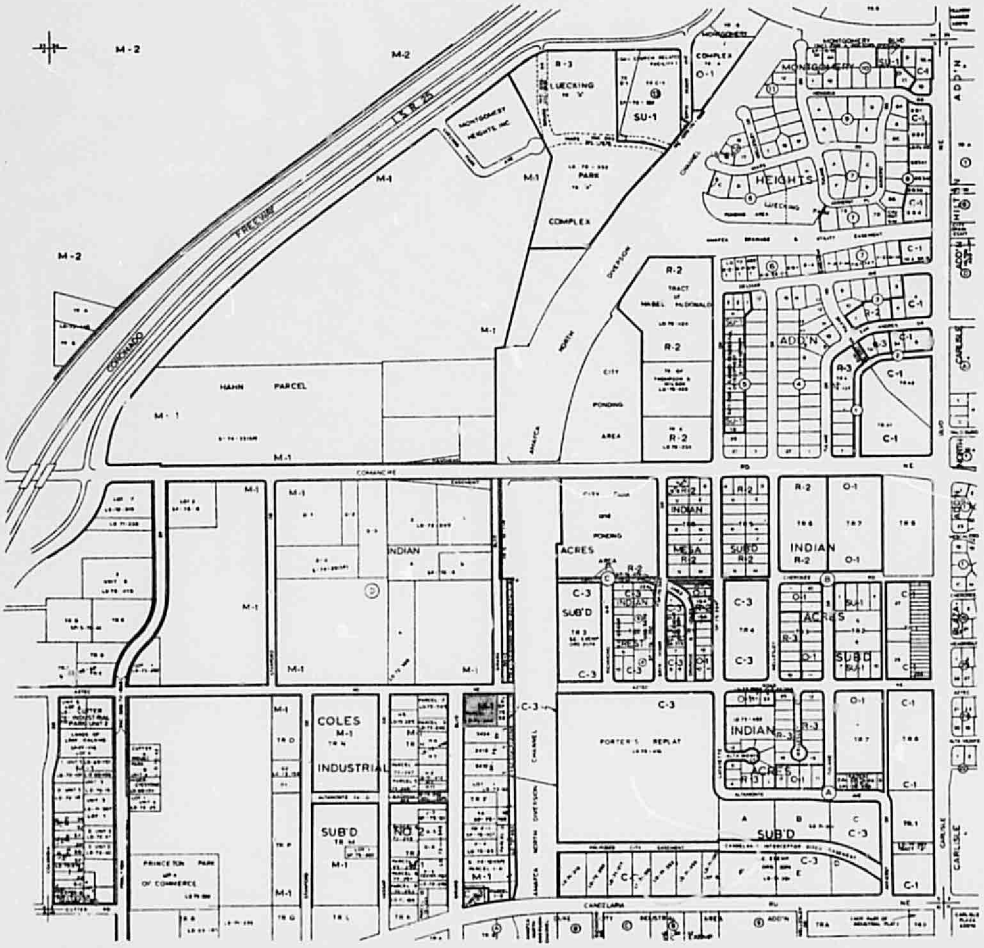
[redacted] Are ponds practical, can they be built as shown?

5 - Safety

Do the drainage provisions constitute an attractive nuisance, or safety hazard?

If the pond depth is greater than 18",are safety provisions supplied? (Minimum 3.0 ft. high chain link fence or similar physical barrier of ponding areas are adjacent to public R.O.W.?)

In general, ponds of depth greater than 18" will not be accepted for both safety consideration and for long term effectiveness of the facilities. In those cases where limited space is available for ponding, the use of gravel pits under the parking areas is suggested. It must be pointed out that mainstream and effectiveness of these facilities is necessary and is the responsibility of the owner. Existing or planned City facilities (streets, channels, storm sewers) can accommodate the natural runoff volumes. Greater discharges would cause flooding downstream and need to be limited at the source.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INDUSTRIAL
PORTER'S REPLAT
PRINCETON PARK OF COMMERCE
CANELLAN
CARLISLE
NORTH DIVERSION CHANNEL

G-16-Z

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DRAINAGE PLAN

Parcel 1, Tract G, Cole's Industrial Subdivision No. 2

The property is a 40,000 Sq. Ft. parcel situated at the corner of Aztec Rd. Ne and Girard Blvd. NE. It is in the block west of the North Diversion Channel. It will be developed into a Retail Sales and Warehouse facility.

Check List:

1. There is no flooding potential and property is not located in a flood plain. There are no special requirements because of its location near the North Diversion Channel, per the City Drainage Engineer.

2. The adjacent lot drainage of ½ acre area will flow across this parcel and a swale is provided.

3. The topography of this tract is shown on the Grading and Drainage Plan and topography of adjacentproperty is shown on a copy of the City ortho photo topo map.

4. Storm water retention calculations are shown on the Grading and Drainage Plan.

5. The ponding areas are 1.5 feet deep or are protedted by hand rails.

Ray L. Harrison
RAY L. HARRISON
P. E. & L. S. 2198