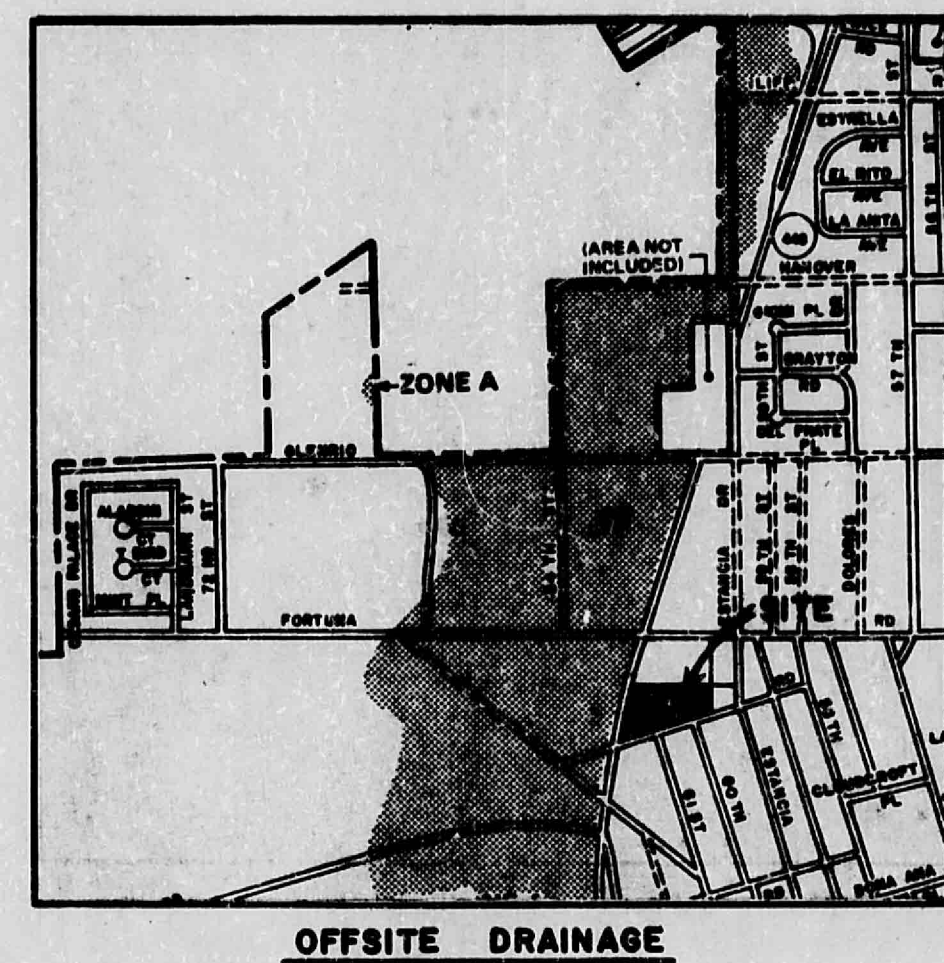


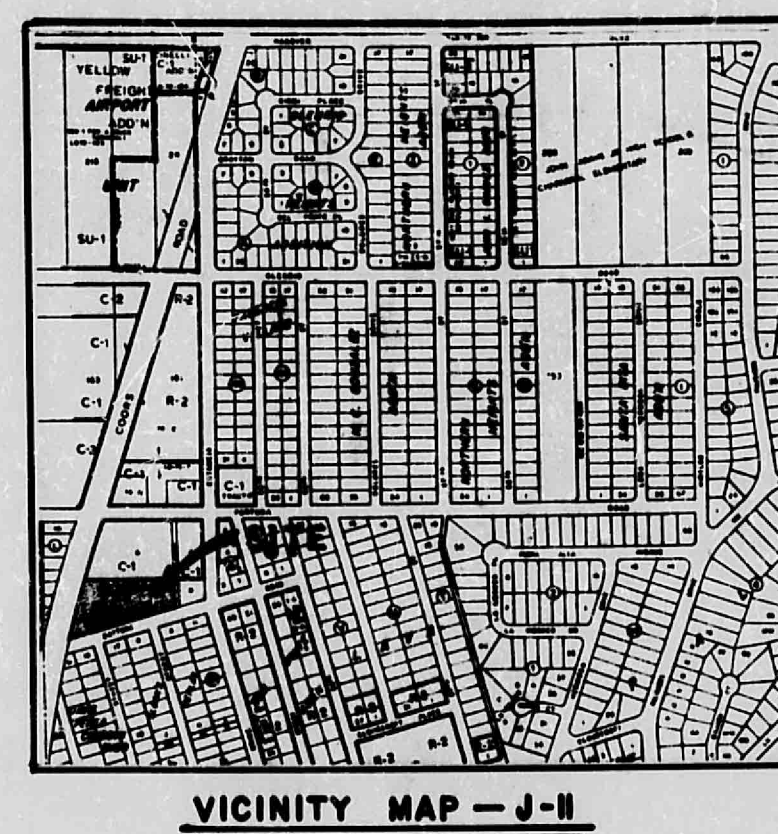
| LEGEND | |
|--------|---------------------------|
| 12.7 | EXISTING SPOT ELEVATION |
| 12.7 | EXISTING CONTOUR |
| 12.7 | PROPOSED SPOT ELEVATION |
| 12.7 | PROPOSED FINISHED CONTOUR |
| 12.7 | SURFACE FLOW DIRECTION |
| 12.7 | DRAINAGE BOUNDARY |

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REVISION 2-22-82
CHANGED OUTLET SYSTEM TO
SIDEWALK CULVERT, STD. DWG K-16

Legend: Replat of Bk. J and the easterly portion of Bk. K and L of the Northern Heights Subdivision, Albuquerque, New Mexico.
Surveyor: Walker Surveying Co./November 1981.
Bench Mark: Brass Cap 3310, intersection of Coors and Daytona, SSE Ret., Elevation = 5099.77.
Flood Hazard Status: Site is not covered by the City Flood Management Maps. FIA map indicates site is not located in a Flood Hazard Area. (Map 4, FHM, December 4, 1979).
City Drainage Criteria: In a pre-design meeting with the City Engineer/Hydrology Department, it was established that the equivalent increased runoff created by the proposed paving and building expansions will be ponded per valley criteria: 850 pond with a 01 outlet.
Existing Conditions: (100 year storm)
Area 1 - Drains to east to Estancia Drive.
Area = 0.50 Acres
Rate = (0.4)(5.4)(0.50) = 1 cfs
Vol. = (2.2/12)(0.4)(21,600) = 1590 ft.³
Area 2 - Drains to west to Coors Rd.
Area = 1.81 Acres
Rate = (0.44)(5.4)(1.81) = 4 cfs
Vol. = (2.2/12)(0.44)(78,660) = 5912 ft.³
Area 3 - Drains to west to existing outlet under walk, then to Coors Rd.
Area = 0.53 Acres
Rate = (0.9)(5.4)(0.53) = 3 cfs
Vol. = (2.2/12)(0.90)(22,950) = 3790 ft.³
Proposed Developed Conditions:
Areas 1 and 3 remain unchanged in flow rate and volume.
Area 2
Area = 1.81 Acres
Rate Q100 = (0.44)(5.4)(1.81) = 4 cfs
Vol. Q100 = (2.2/12)(0.44)(78,660) = 5912 ft.³
New construction of pavement and building additions will account for an increased flow vol. 50 of (2.0/12)(0.9-0.4)(5200 ft.²) = 433 ft.³
Allowable outflow rate from pond = Q1 = (0.40)(1.62)(1.81) = 1.1 cfs
Outlet size required for an outflow of 1 cfs under a head of 0.5' = 32 in. 2 ; use 3'-4\"/>



ALBUQUERQUE
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GRADING/DRAINAGE PLAN FOR
COORS & DAYTONA NW.

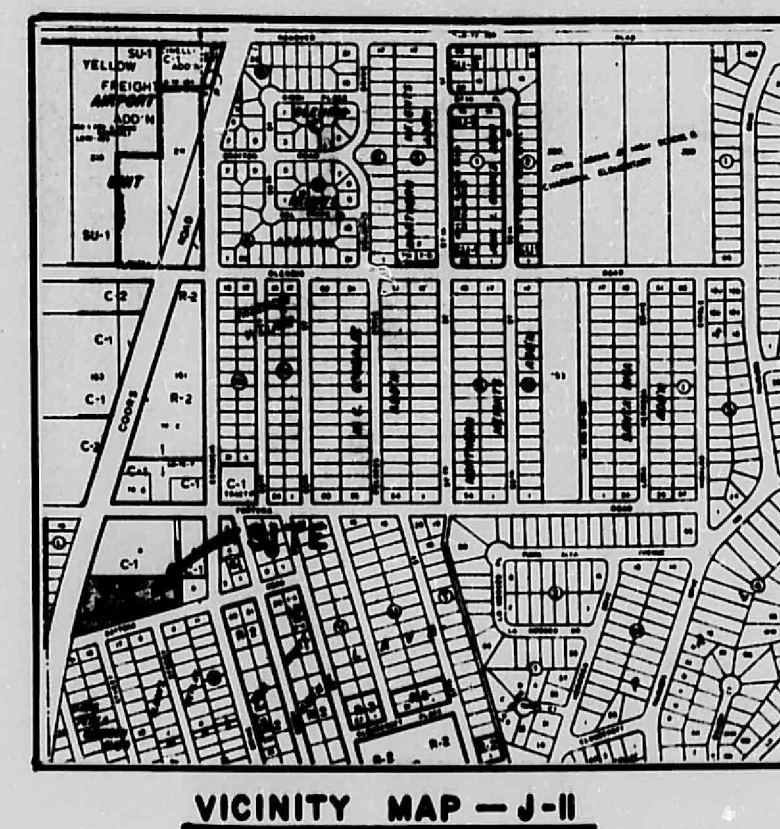
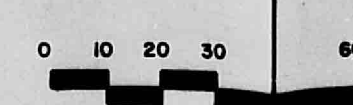
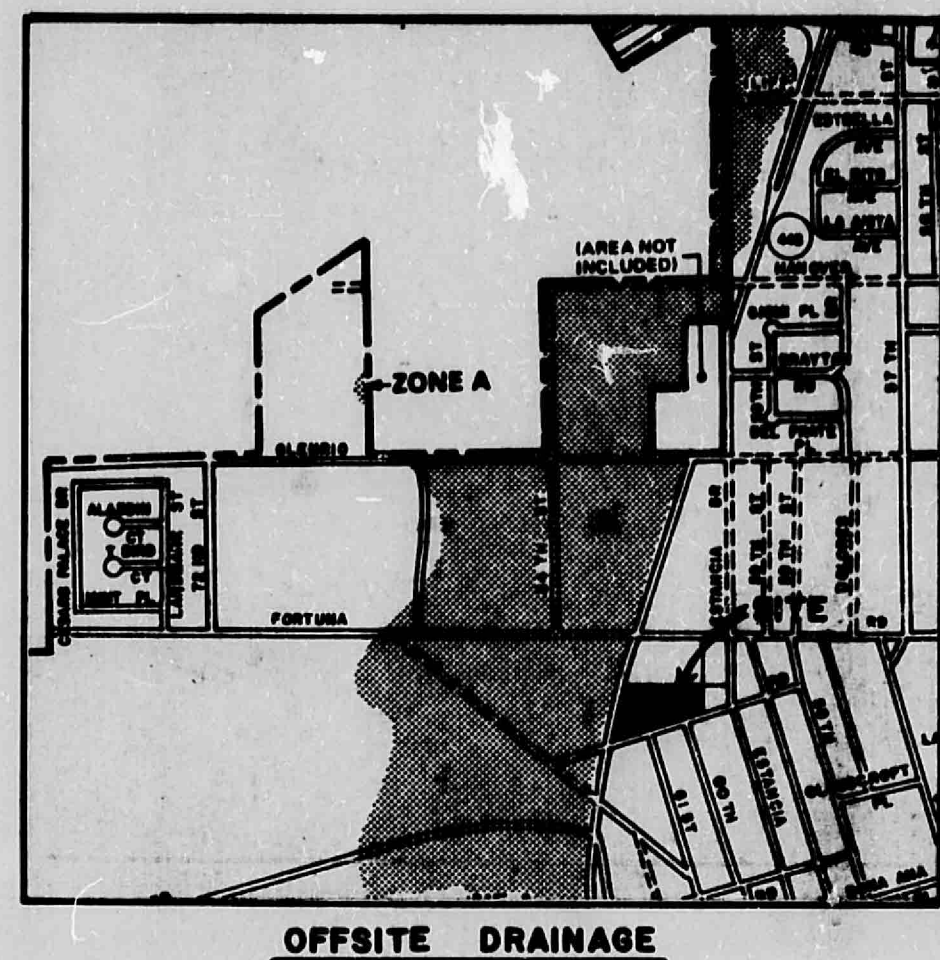
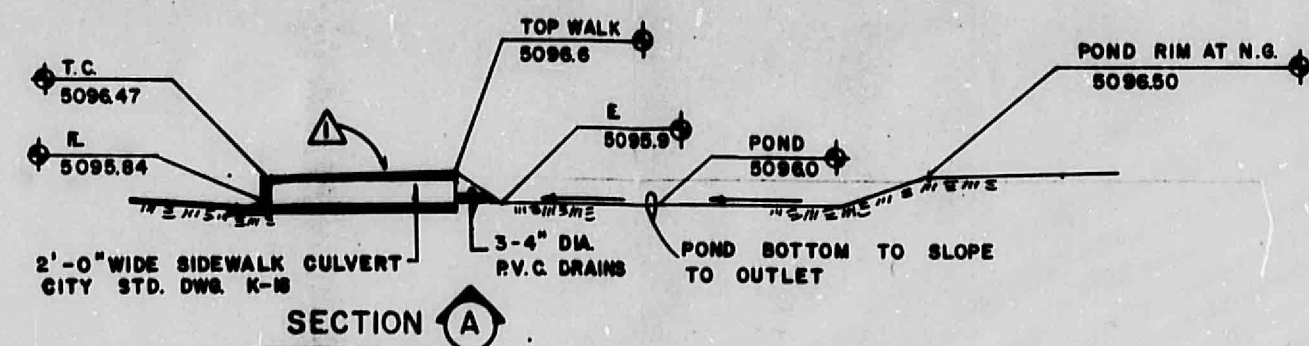
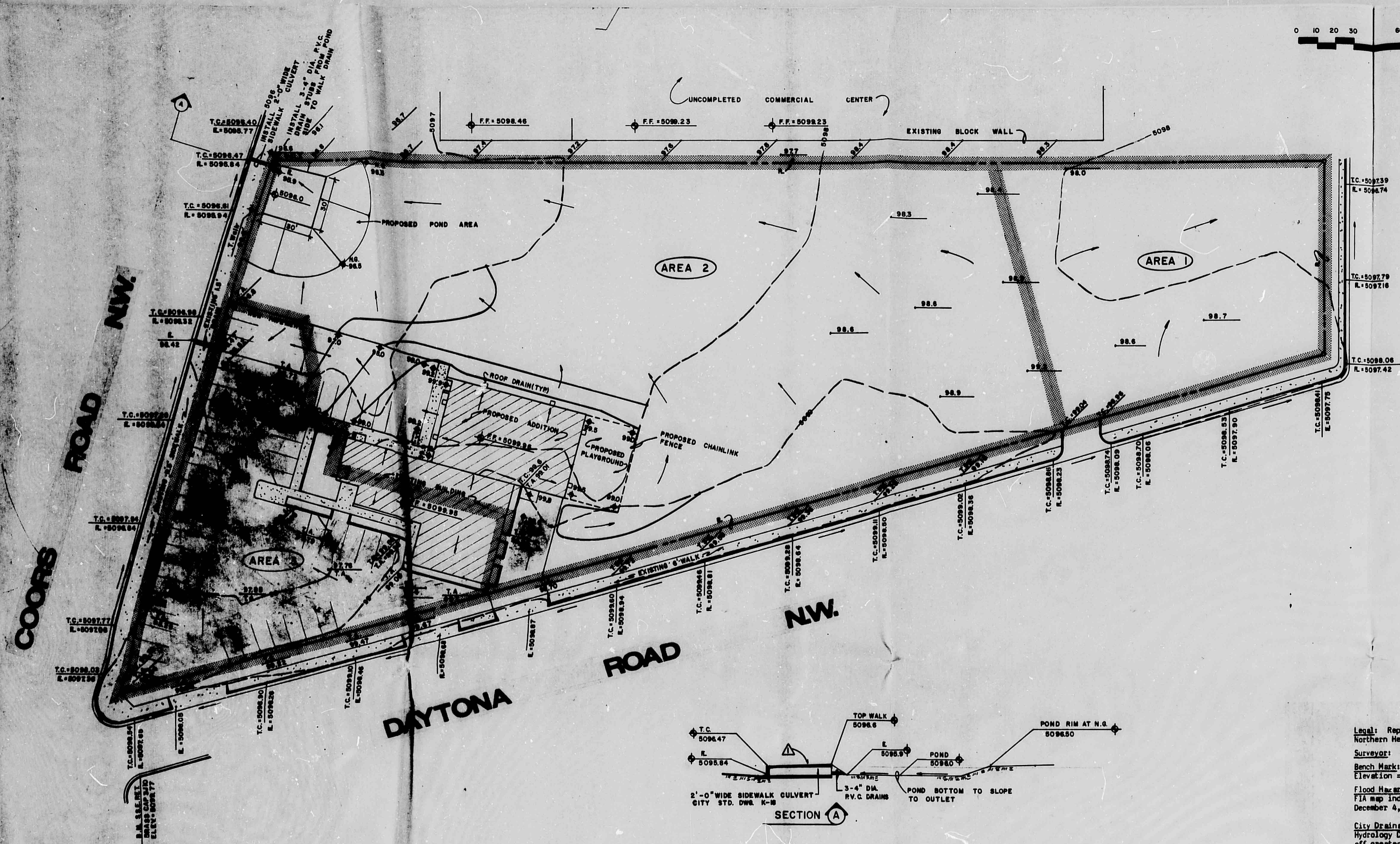


City of Albuquerque
Engineering Department
2-22-82

CITY OF ALBUQUERQUE

C

D



ALBUQUERQUE
NEW MEXICO

GRADING/DRAINAGE PLAN FOR COORS & DAYTONA NW.



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Legal: Replat of Bk. J and the easterly portion of Bk. K and L of the Northern Heights Subdivision, Albuquerque, New Mexico.
 Surveyor: Walker Surveying Co./November 1981.
 Bench Mark: Brass Cap 3310, intersection of Coors and Daytona, SSE Ret., Elevation = 5099.77.
 Flood Hazard Status: Site is not covered by the City Flood Management Map. FHM map indicates site is not located in a Flood Hazard Area. (Map 4, FHM, December 4, 1979).
 City Drainage Criteria: In a pre-design meeting with the City Engineer/Hydrology Department, it was established that the equivalent increased runoff created by the proposed paving and building expansions will be ponded per valley criteria: 100 year storm with a 0.1 outlet.
 Existing Conditions: (100 year storm)
 Area 1 - Drains to east to Estancia Drive.
 Area = 0.50 Acres
 Rate = $(0.4)(5.4)(0.50) = 1 \text{ cfs}$
 Vol. = $(2.2/12)(0.4)(21,690) = 1590 \text{ ft}^3$
 Area 2 - Drains to west to Coors Rd.
 Area = 1.81 Acres
 Rate = $(0.4)(5.4)(1.81) = 4 \text{ cfs}$
 Vol. = $(2.2/12)(0.4)(78,660) = 5912 \text{ ft}^3$
 Area 3 - Drains to west to existing outlet under walk, then to Coors Rd.
 Area = 0.53 Acres
 Rate = $(0.9)(5.4)(0.53) = 3 \text{ cfs}$
 Vol. = $(2.2/12)(0.90)(22,950) = 3790 \text{ ft}^3$
 Proposed Developed Conditions:
 Areas 1 and 3 remain unchanged in flow rate and volume.
 Area 2
 Area = 1.81 Acres
 Rate Q100 = $(0.44)(5.4)(1.81) = 4 \text{ cfs}$
 Vol-100 = $(2.2/12)(0.44)(78,660) = 6345 \text{ ft}^3$
 New construction of pavement and building additions will account for an increased flow vol. of $(2.0/12)(0.9-0.4)(5200 \text{ ft}^2) = 433 \text{ ft}^3$
 Allowable outflow rate from pond = $Q_1 = (0.40)(1.62)(1.81) = 1 \text{ cfs}$
 Outlet size required for an outflow of 1 cfs under a head of 0.5' = 32 in. 2; use 3-4" diameter PVC drain. Stubs connected to sidewalk culvert 2'-0" wide rectangular opening in curb/City Std. K-16
 Pond:
 Defined pond bottom will equal 30'x30' with sides graded to daylight into natural ground at elevation 5096.50.
 Capacity of pond:
 96.0 Elev. = 900 ft. 2 Area = 2385 ft. 2 Avg. (0.5' depth) = 1192 ft. 3 capacity.
 96.5 Elev. = 3870 ft. 2 Area
 Excess flow volume not accommodated by outlet pipes will overflow sidewalk at NW corner of site. Existing top of walk at this point = 5096.60.
 Offsite flow:
 Offsite drainage diverted by adjoining streets. A minor area to the north of the site behind the existing uncompleted building drains to the site.
 Special Order #19 Documents will be submitted to City Design.

REVISED 2-22-82
CHANGED OUTLET SYSTEM TO
SIDEWALK CULVERT, STD. DWR K-16

CITY OF ALBUQUERQUE

CITY OF ALBUQUERQUE
THIS MICROFILM IS THE BEST
POSSIBLE REPRODUCTION DUE
TO THE POOR QUALITY OF THE
ORIGINAL DOCUMENT