CALCULATIONS Legal Description: Tract 367 (0.0482 acres) Tract 27(0.133 Acres) & Part of Tract A 6.0230 Ac) HYDROLOGY Replat to TRACT A-2 8,931.17 Sq. Ft. Rational Formula used to compute discharge & SCS procedure for volume Total area = 8931 S.F. = 0.205 acres 100 yr.-6 hr vol. rain = 2.2" (plate 22.2 D-1) 10 yr. factor = 0.657 PROJECT Benchmark I = 2.15 (Plate 22.2 D-2) Legend 54. 8-J13 A Proposed spot Elevations Intensity i = 4.73 (6 hr. vol.* I) O Existing spot Elevations Elevation 4956.62 SGS ON = 79 (range poor condition B-soils group) (VbA Vinton Sandy Loan) --- Existing Contour BRASSCOP in CURB OF N.E. CORNER C = 0.40 $2100 = CiA = 0.4 \times 4.73 \times 0.205 = 0.39 cfs$ Swale (proposed) 18th and Mountain NW Runoff Volume = 0.70" (Plate 22.2 C-4) CN = 79 and 2.2" rainfall - PROPERZY Line Vol. $100 = DA \times RO/12 = 8,931 \times 0.7$ " / 12 = 521 cu.ft.====== Existing Curb & Gutter Composite C = 0.73 ($27\% \times .25 + 73\% \times .925$) 73% impervious area $\approx 100 = 0.73 \times 4.73 \times 0.205 = 0.71 \text{ cfs}$ Composite runoff CN = 0.92 (Plate 22.2 C-3) 73% impervious & CN=79 Runoff RO = 1.55" (Plate 22.2 C-4) $Vol._{100} = 1.55/12 \times 8931 = 1,154 \text{ cu.ft.}$ 1700 Mountain rod. N.W. HYDRAULICS Existing Storm Drain (along Mountain Rd.) Pipe = 18" RCP S = 0.002 '/' n = 0.013 \approx .000614/n x d 8/3 x S $\frac{1}{2}$ = 4.75 cfs Parking Area Av. top width = 40' Assume d = 0.1' (Assume "V" shape) A: 2.0" S = 0.005 $S_{\frac{1}{2}}^{\frac{1}{2}} = 0.0707$ r = 0.05 r = 2/3 = 0.1356 $(r = A/\sqrt{P})$ Steel Fence $V = 1.486/n \times s \frac{1}{2} \times r \frac{2}{3} = 0.838$ 9 - AV = 2.0 × 0.838 . 1.68 c.f.s. Exceeds Q100 Siguer Park F.F. ELEV 4959.3 PROperty of Padilla and Piley. DRAINAGE PLAN The following items concerning the Blankley Gallery and Sculpting garden TRACT A-2 Drainage Plan are as follows: 1. Vicinity Map 2. Drainage Plan Grading Plan 4. Erosion Control Plan 5. Calculations An art gallery and sculpting gardens are proposed on this tract, as shown on the plan. They are located on the south side of Mountain Road N.... just east of Tiguer Park, close to the intersection of 18th Street N.W. It present this site is undeveloped. The adjacent property to the south has an adobe house on it. The land is approximately the same elevation and it appears that no runoff enters from here, except about 2 feet next to and north of the house. To the west lies Tiguex Park and no runoff comes in from there because a 6" curb is built adjacent to this property. To the north is Mountain Road and no runoff from there. To the east an office development has controlled runoff and no runoff comes in from there. Also to Existing Chainthe east, about 35 feet abut the same property that lies to the south. Both Link Fence 10' Depress S.W sides of the fence are about the same elevation and it appears that some at swale ponding takes place. Flows from this property will not contribute to any Tall 6"curb future ponding. (Existing) when developed, the impervious area will include the paved parkingdriveway area, the roof and the sidewalks. The sculpting garden: areas Install 4-2"dis pipe thru wall 10'4 will include pervious landscaped areas and also small ponds. Runoff from this areas is expected to be minimal. T.C. 57.91 € 57.51 € 57.42 Runoff fromm the roof, sidewalks and all other areas on the westerly Marble Fence Existing Chain portion of the tract will flow in an easterly direction toward the parking-(proposed) driveway area where a paved swale is planned to carry flows north toward Link Fence Existing Adobe Bldg. Mountain Road. At the Road, runoff will flow west toward a storm drain inlet located about 270 feet west of the northwest corner of this tract.

⊕ 57.0

Free discharge is planned for the following reasons:

2. Runoff impact to the downstream storm drain system will be minimal. Estimated peak discharge from the 100-year storm is only 0.71cfs.
3. Tere is a storm drain inlet and system a short distance from the site.

elevations, proposed grades as shown by the proposed spot elevations, location and slopes of proposed swales with direction of flow. Retaining

The grading plan consists of the existing contours and existing spot

walls are not required. A marble fence is planned along the south boundary.

Sediment deposition due to erosion during construction will not

now until the parking areas are paved. If needed small earth dikes will

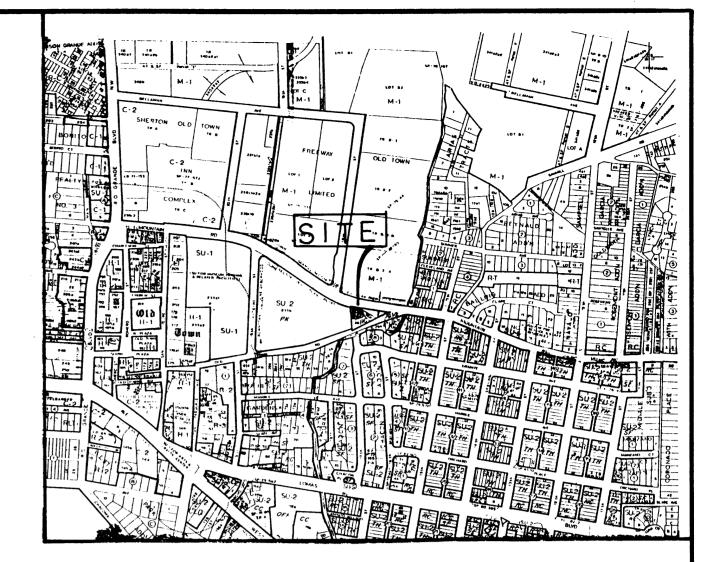
be a problem. Site elevations will remain basicly the same as they are

be constructed at site to keep sediment within the site.

1. The Tract is small, only about 0.205 acres.

mrs. Romero

Scale 1"= 10'



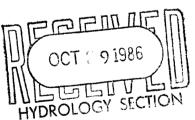
VICINITY MAP
ZONE ATLAS J-13-Z

PROJECT BENCH MARK
City of Albuquerque BM# 8-J 13 A
ELev. 4956.62. A standard ACS brass
Tablet Stamped "8-J13A", set flush with
the curb, Northeast corner of Mountain
Rd. N.W. and 18th St. Intersection.

Raul a. Rivera 10-10-86



RIVERA ENGINEERING 2624 Valencia Dr. N.E. Albuquerque, NM 87110



Rev. 1 10-27-86 - Added "existing" to in-place improvements, describe

BM and clarify Legal, to show replat to one tract. RAR

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

DRAINAGE PLAN

BLANKLEY - ART GALLERY - SCULPTING GARDEN

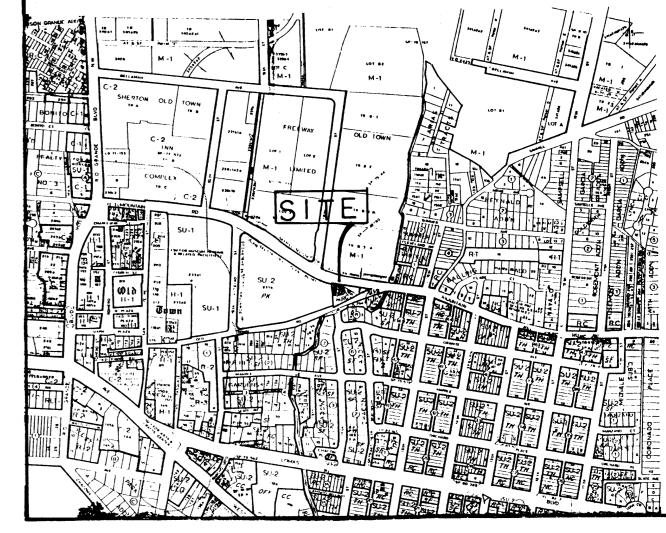
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.EDesign			Traffic	1. 有學院	
A.C.EHydrology	1		Water		
DRAWING		MAP	NO.	SHEET 1 OF	1
· ·					

CALCULATIONS Legal Description: Tract 367 (0.0482 acres) Tract 27(0.133 Acres) & Part of Tract A 6.0230 Ac) HYDROLOGY 8,931.17 Sq. Ft. Replat to TRACT A-2 Rational Furmula used to compute discharge & SCS procedure for volume Total area = 8931 S.F. = 0.205 acres 100 pm.-6 hr vol. rain = 2.2 (plate 22.2 D-1) 10 yr. factor = 0.657 PROJECT Benchmark I = 2.15 (Plate 22.2 D-2) Legend Sta. 8-J13 A Proposed spot Elevations Intensity i = 4.73 (6 hr. vol.* I) SCS UN = 79 (range poor condition B-soils group XVbA Vinton Sandy Loan) O Existing spot Elevations Elevation 4956.62 --- Existing Contour BRASSCOP in CURB OF N.E. CORNER C = 0.40 $= 0.4 \times 4.73 \times 0.205 = 0.39 \text{ cfs}$ Swale (proposed) 18型 and Mountain NW Runoff Volume = 0.70" (Plate 22.2 C-4) CN = 79 and 2.2" rainfall PROBER Zy Line Vol. $100 = DA \times R0/12 = 8,931 \times 0.7'' / 12 = 521 cu.ft.$ DEVELOPED ====== Existing Curb & Gutter Composite C = 0.73 ($27\% \times .25 + 73\% \times .925$) 73% impervious area $\approx 100 = 0.73 \times 4.73 \times 0.205 = 0.71 \text{ cfs}$ Composite runoff CN = 0.92 (Plate 22.2 C-3) 73% impervious & CN=79 Runoff RO = 1.55" (Plate 22.2 C-4) $Vol._{100} = 1.55/12 \times 8931 = 1,154 \text{ cu.ft.}$ 1700 Moientain rod. N.W. HYDRAULICS Existing Storm Drain (along Mountain Rd.) Fipe = 18" RCP S = 0.002 '/' n = 0.013 \approx .000614/n x d 8/3 x S $\frac{1}{2}$ = 4.75 cfs Parking Area Av. top width = 40' Assume d = 0.1' (Assume "V" shape) $A = 2.0^{B}$ TC. 56.24 n = 0.017 S = 0.005 $S_2^{\frac{1}{2}}$ = 0.0707 r = 0.05 r = 2/3 = 0.1356 $(r = A/_nP)$ Steel Fence $V = 1.486/n \times s \frac{1}{2} \times r \frac{2}{3} = 0.838$ 9 - AV = 2.0 x 0.838 . 1.68 c.f.s. Exceeds Q100 Tiguex Park F.F. ELEV 4959.3 PROperty of Padilla and Riley DRAINAGE PLAN The following items concerning the Blankley Gallery and Sculpting garden **₽** 58 <u>5</u> Drainage Plan are as follows: 1. Vicinity Map 2. Drainage Plan 3, Grading Plan 4. Erosion Control Plan 5. Calculations An art gallery and sculpting gardens are proposed on this tract, as shown on the plan. They are located on the south side of Mountain Road N. ... just east of Tiguer Park, close to the intersection of 18th Street N. ... it present this site is undeveloped. The adjacent property to the south has an adobe house on it. The land is approximately the same elevation and it appears that no runoff enters from here, except about 2 feet next to and north of the house. To the west lies Tiguex Park and no runoff comes in from there because a 6" curb is built adjacent to this property. To the north is Mountain Road and no runoff from there. To the east an office development has controlled runoff and no runoff comes in from there. Also to Existing Chainthe east, about 35 feet abut the same property that lies to the south. Both Link Frace 10' sides of the fence are about the same elevation and it appears that some ponding takes place. Flows from this property will not contribute to any Tall 6"curb future ponding. (Existing) When developed, the impervious area will include the paved parkingdriveway area, the roof and the sidewalks. The sculpting garden: areas Install 4-2"dia pipe thru wall 10'4 5 will include pervious landscaped areas and also small ponds. Runoff from this areas is expected to be minimal. 40.75' € 57.51 € 57.42 Runoff fromm the roof, sidewalks and all other areas on the westerly Marble Fence Existing Chain portion of the tract will flow in an easterly direction toward the parking-(poposed) driveway area where a paved swale is planned to carry flows north toward Link Fence Mountain Road. At the Road, runoff will flow west toward a storm drain inlet located about 270 feet west of the northwest corner of this tract. mrs. Romero Free discharge is planned for the following reasons: 1. The Tract is small, only about 0.205 acres. Scale 1"= 10' 2. Runoff impact to the downstream storm drain system will be minimal. Estimated peak discharge from the 100-year storm is only 0.71cfs. 3. Tere is a storm drain inlet and system a short distance from the site. The grading plan consists of the existing contours and existing spot ⊕ 57,0 elevations, proposed grades as shown by the proposed spot elevations, location and slopes of proposed swales with direction of flow. Retaining walls are not required. A marble fence is planned along the south boundary. Sediment deposition due to erosion during construction will not be a problem. Site elevations will remain basicly the same as they are

56.8

now until the parking areas are paved. If needed small earth dikes will

be constructed at site to keep sediment within the site.



VICINITY MAP ZONE ATLAS J-13-Z

> PROJECT BENCH MARK City of Albuquerque BM# 8-J 13 A ELev. 4956.62. A standard ACS brass Tablet Stamped " 3- J13 A" set flush with the curb, Northeast corner of Mountain Rd. N.W. and 18th St. Intersection.

Raul a. Pirena 10-10-86



RIVERA ENGINEERING 2624 Valencia Dr. N.E. Albuquerque, NM 87110



Rev. 1 10-27-86 - Added "existing" to in-place improvements, describe BM and clarify Legal, to show replat to one tract. RAR

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION

DRAINAGE

PLAN BLANKLEY - ART GALLERY - SCULPTING GARDEN

APPROVALS	ENGINEER	DATE	A PPROVALS	ENGÍNEER	DATE
City Engineer			Liquid Waste		
A.C.EDesign			Traffic		
A.C.EHydrology			Water		- 1
DRAWING		MAP	NO.	HEET 1 OF 1	