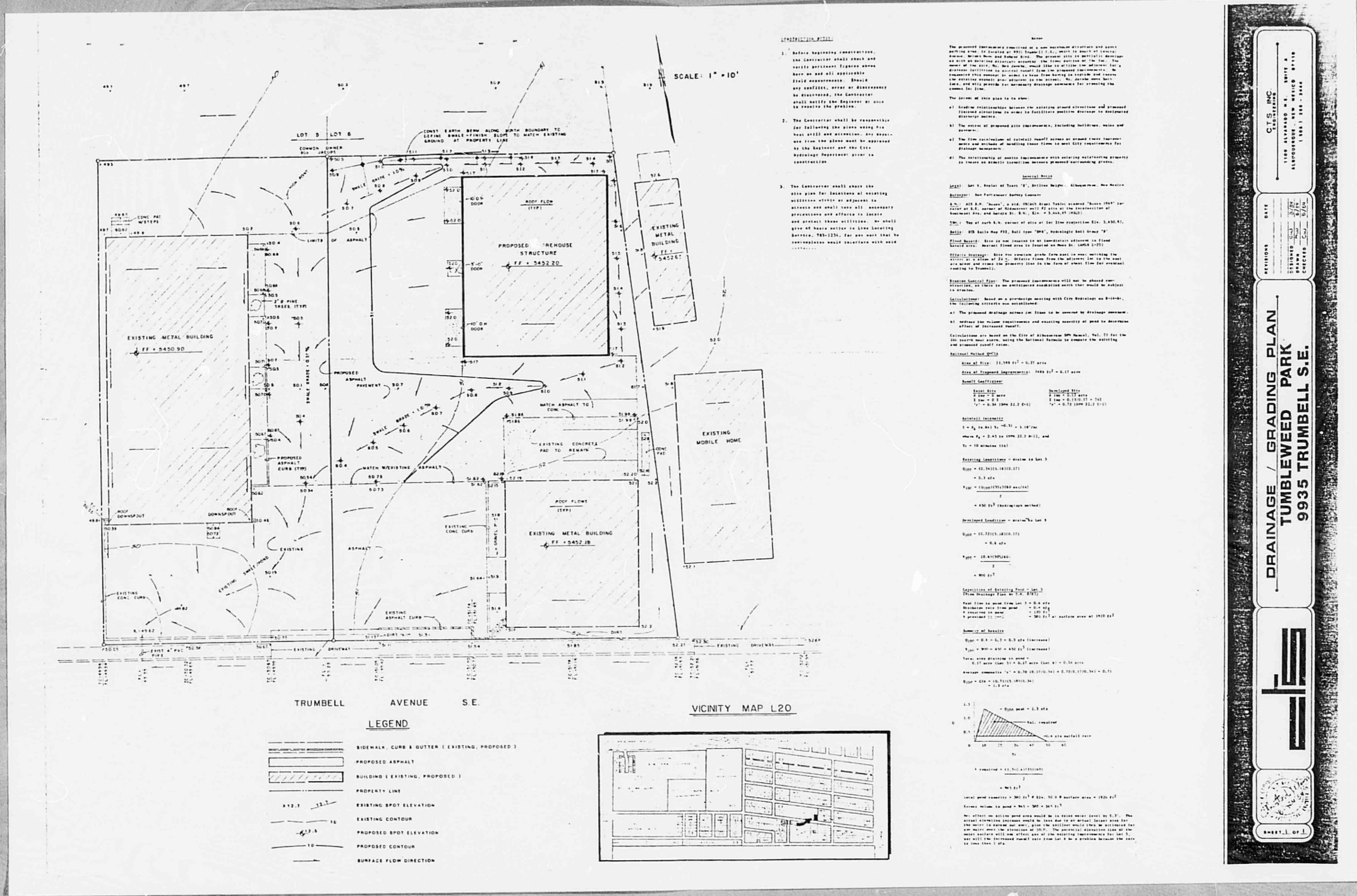
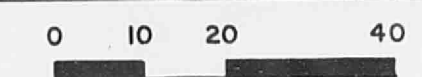
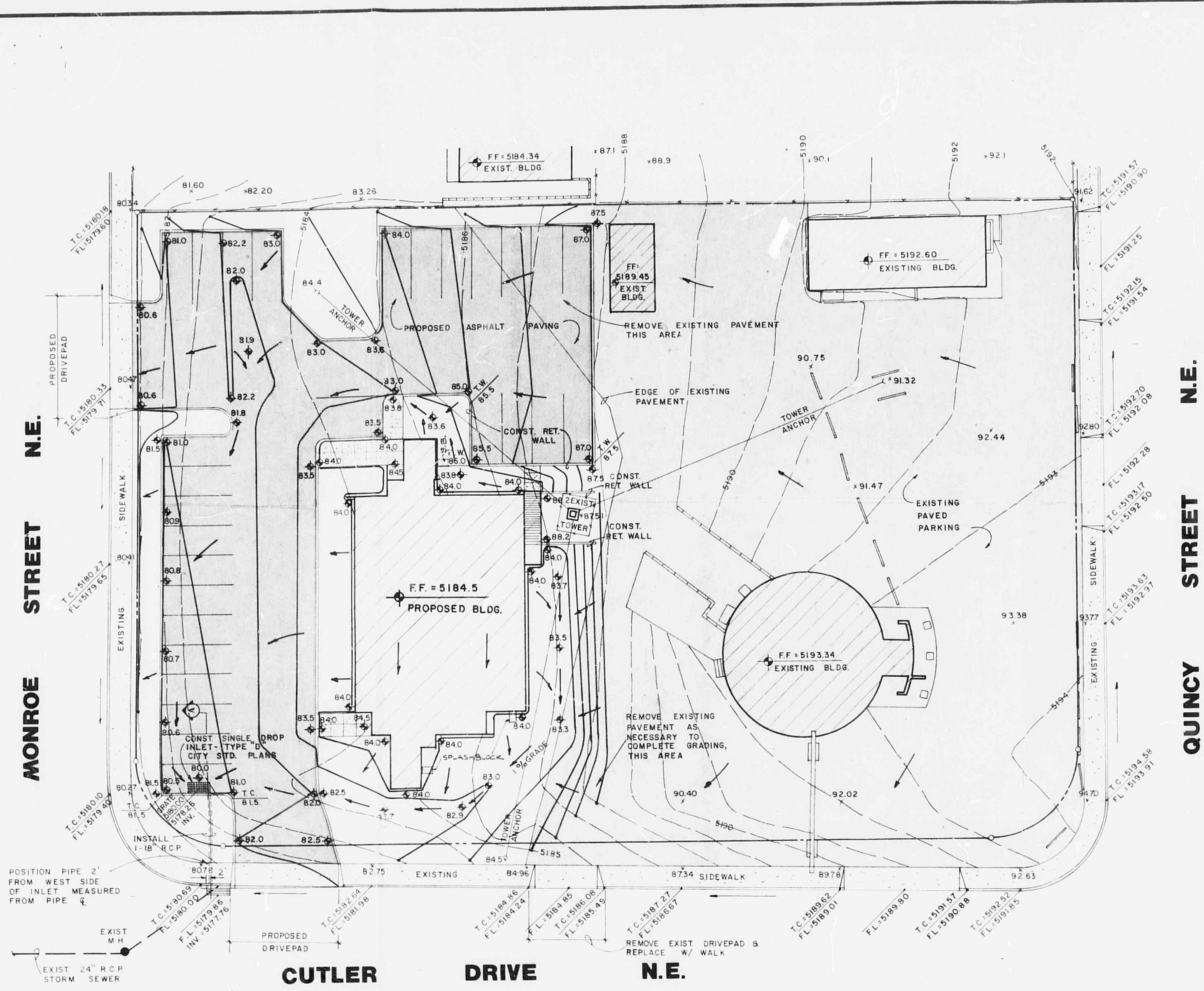


CITY OF ALBUQUERQUE  
 THIS MICROIMAGE IS THE BEST  
 POSSIBLE REPRODUCTION DUE  
 TO THE POOR QUALITY OF THE  
 ORIGINAL DOCUMENT

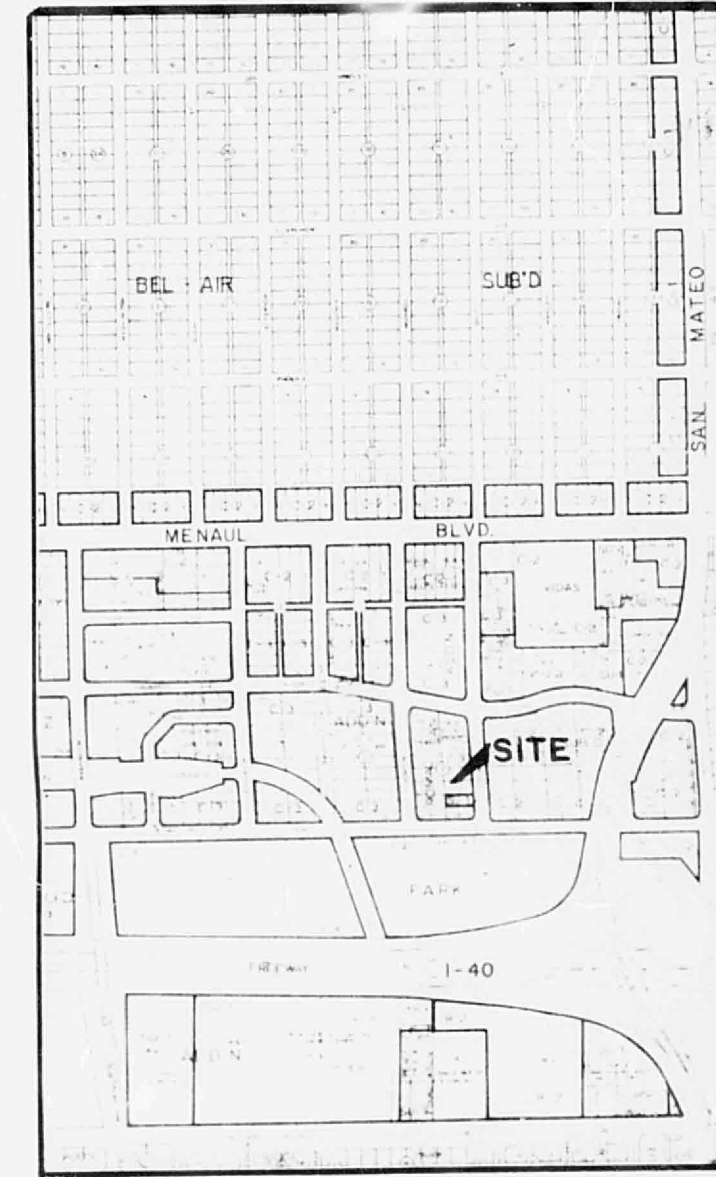






**LEGEND**

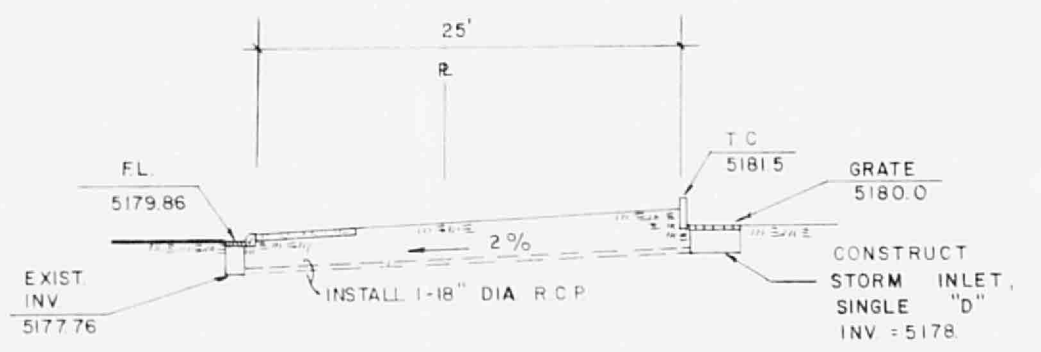
— 12.7 —	EXISTING SPOT ELEVATION
- - - 12 - - -	EXISTING CONTOUR
◆ 12.7 ◆	PROPOSED SPOT ELEVATION
— 12 —	PROPOSED FINISHED CONTOUR
→	SURFACE FLOW DIRECTION
[Hatched Box]	PROPOSED PAVEMENT
[White Box]	EXISTING PAVEMENT



VICINITY MAP - H-17

**GRADING & DRAINAGE PLAN**  
SCALE 1" = 20'

NOTE: PROJECT WILL REQUIRE PERFORMING ALL GRADING OPERATIONS AROUND EXISTING RADIO TOWER & TOWER ANCHORS



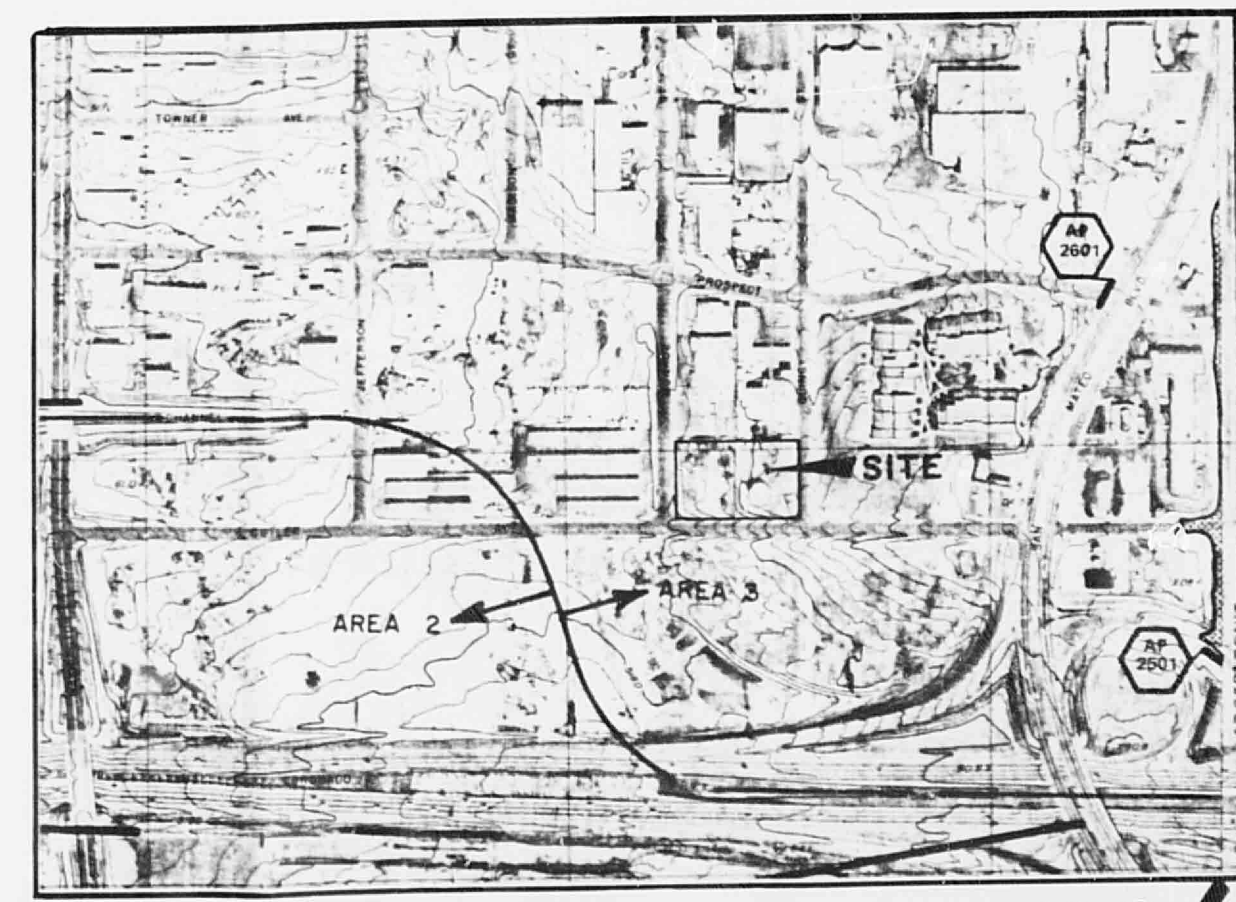
SECTION A  
N.T.S.

**DESIGN**

- A. In a pre-design meeting with Fred Aguirre, City Hydrology Department, the following criteria was established:
  1. Site would not have to pond increased runoff generated by development.
  2. On-site runoff to be routed to private storm drain inlet which will drain to City Drain, located at SW corner of site.
- B. Runoff
  1. Site area draining to proposed inlet = 0.92 Ac.
  2. Peak discharge for a 100 yr. storm =  $(2.25)(0.82)(2.15)(0.92) = 4$  cfs
- C. Storm Drain/Sump Conditions
  1. Grate: Clear opening = 4 ft. 2 for each 3' 0" long City standard section. Total opening = 4 ft. 2 x 1 = 4 ft. 2
  2. Grate Capacity = 4 ft. 2 (step 1 above) x 3.5 cfs/ft. 2 (capacity/ft. 2 for 0.5' head from fig. 4-1, Drainage Criteria Manual, Denver Regional Council of Gov'ts) = 14 cfs.
  3. Theoretical capacity of inlet = 14 cfs. Reduction factor, which compensates for effects which decrease capacity of the inlet due to debris plugging, pavement overlapping, and variations in design assumptions = 50%. Allowable capacity = 14 cfs x 0.5 = 7 cfs.  
Check: Area to inlet, peak flow  $Q_{100} = 4$  cfs. Single inlet capacity = 7 cfs = OK
  4. Pipe to handle  $Q_{100}$  storm flows (Minimum 18" dia., City requirement) (Plate 2.6-0603/02, available upon request).  
Connections to existing inlet using average slope of 3% and Manning's eq., reduced to  $Q = 4M^{5/3}$ , where the constraints of AM are obtained from plate 2.6-0602, 18" pipe = AM of 114 for a concrete pipe.  
 $Q = 114(0.02)^{2/3} = 16$  cfs capacity  
Ok: Area to inlet = 4 cfs — OK

**NOTES**

1. Legal: Lot 6-A, Bk 2, Romax-Jean Addition, Albuquerque, NM.
2. Surveyor: Ron Forstbauer Surveying Co., 12/21/82.
3. BM: City Brass Cap M567-8, Elevation 5204.26.
4. TBM: SW curb return on Cutler Dr. NE, top of curb Elevation 5180.69.
5. SCS Soil type (TC Map #31), Hydrologic soil group 'B'.
6. Site is not located in, or above, a flood hazard area.
7. All Top of Curb elevations are 0.5' above respective top of pavement elevations, unless otherwise shown.
8. Offsite flows: Flows from the east are intercepted and handled by Quincy St. NE. Flows from the adjacent lot to the north are routed to the west within the lot. These flows are intercepted by an existing building and routed around it to discharge on Monroe St. without affecting this site.
9. Summary plat has been filed to remove lot lines.
10. Storm Drain in street has capacity due to location of site at head of basin.
11. Special Order #19 Documents submitted to City Engineer/Designer.
12. Grading/Drainage Plan prepared by C.T.S. Inc., 3-83



FLOOD HAZARD MAP H17/D21



DRAINAGE COPY



**BILL J. SHELTON & ASSOCIATES ARCHITECTS, A.I.A.**  
113 RHODE ISLAND NE ALBUQUERQUE, NEW MEXICO 87101  
TELEPHONE (505) 262-2363

**2400 MONROE NE**  
RADIO STATION FOR KRZY-AM/KRST-FM ALBUQUERQUE, NEW MEXICO

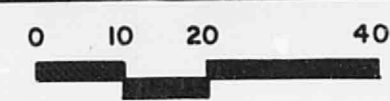
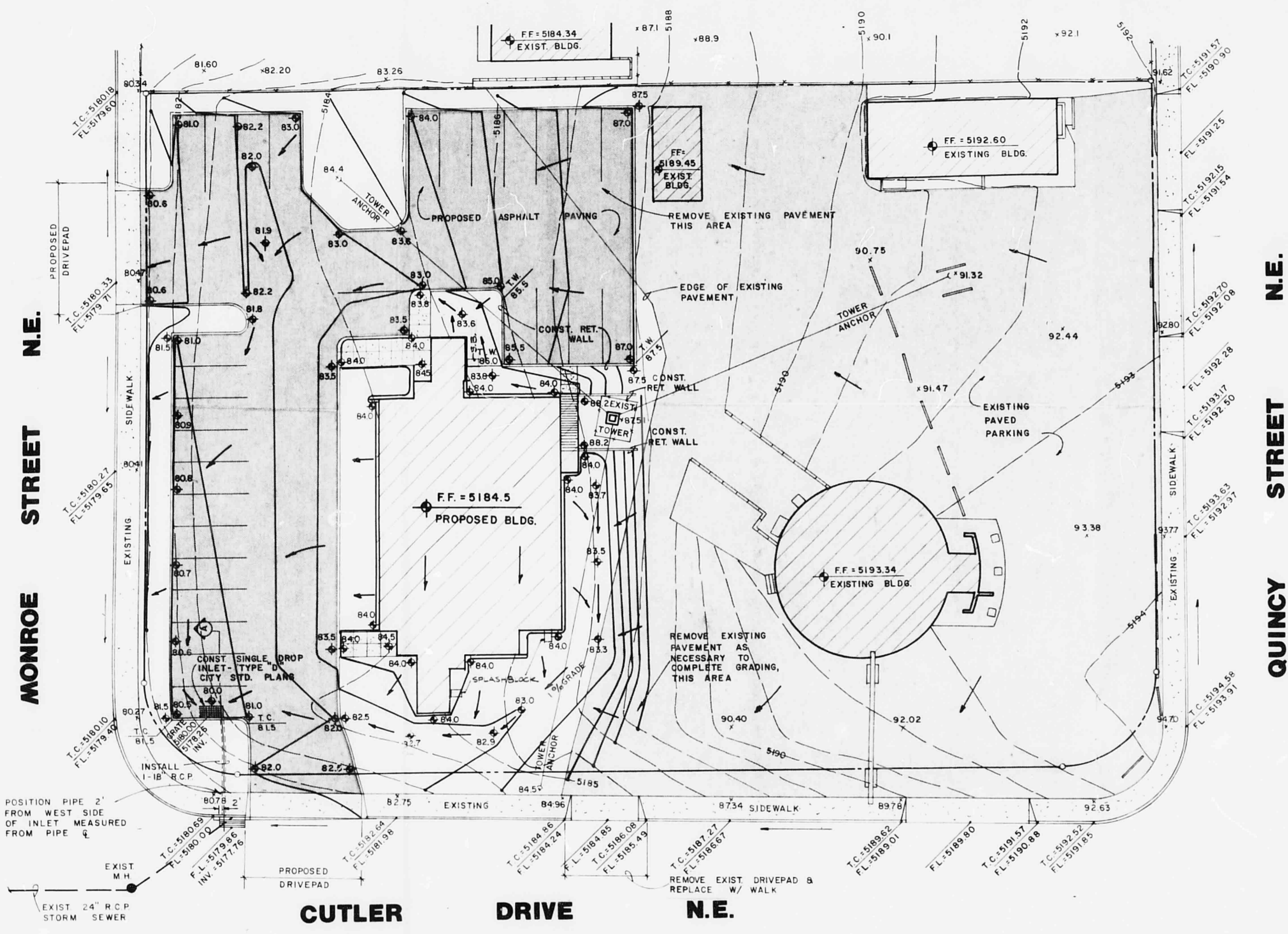
REVISIONS

DATE	APR 12 1983
SHEET NO	2 OF 23



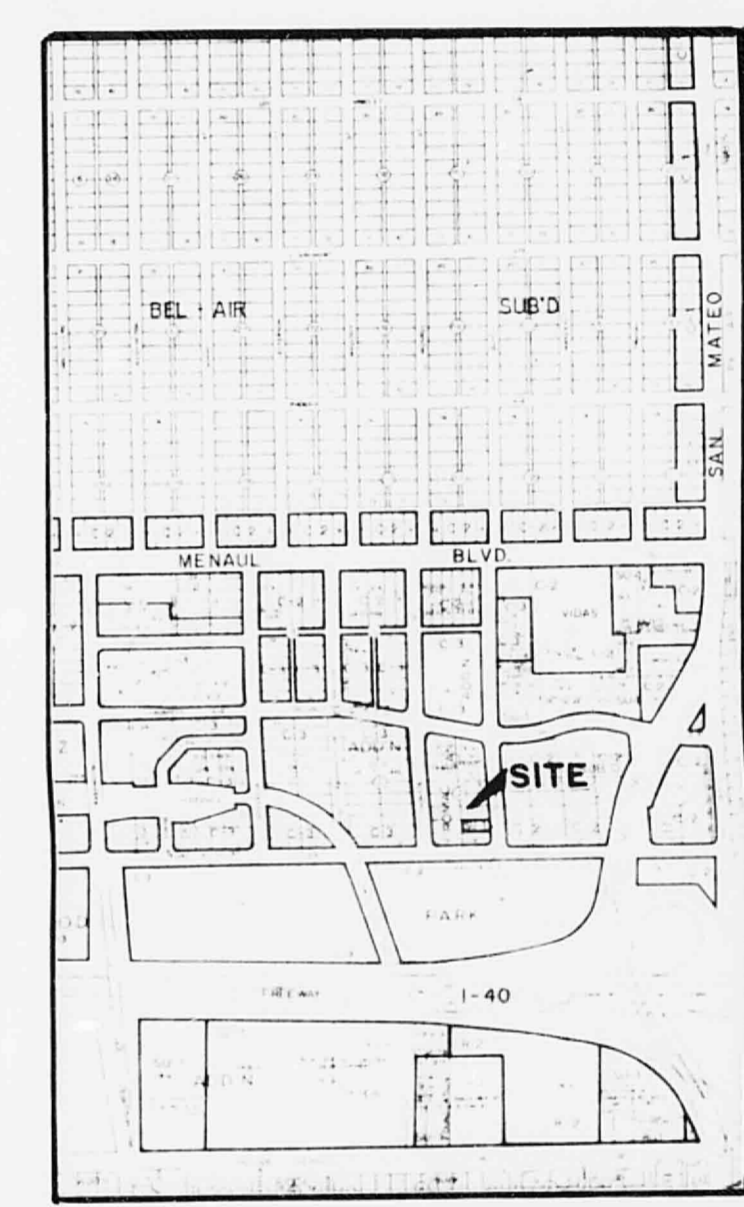






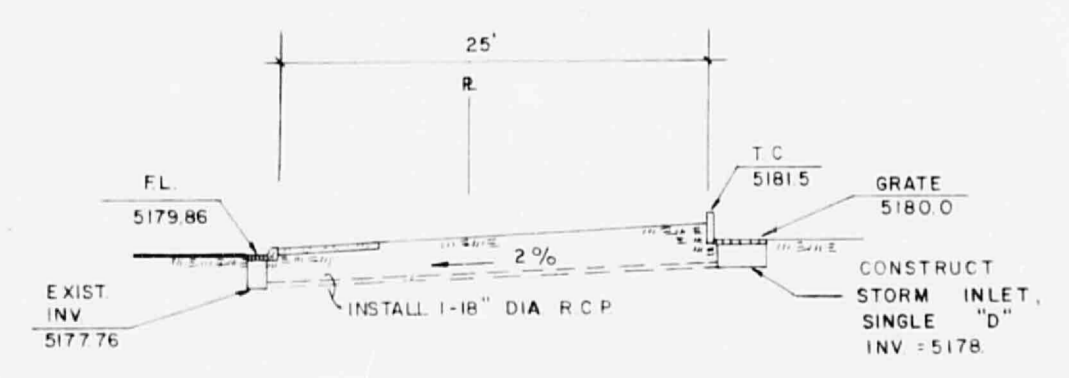
**LEGEND**

- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED FINISHED CONTOUR
- SURFACE FLOW DIRECTION
- PROPOSED PAVEMENT
- EXISTING PAVEMENT



VICINITY MAP H-17

**GRADING & DRAINAGE PLAN**  
SCALE 1" = 20'

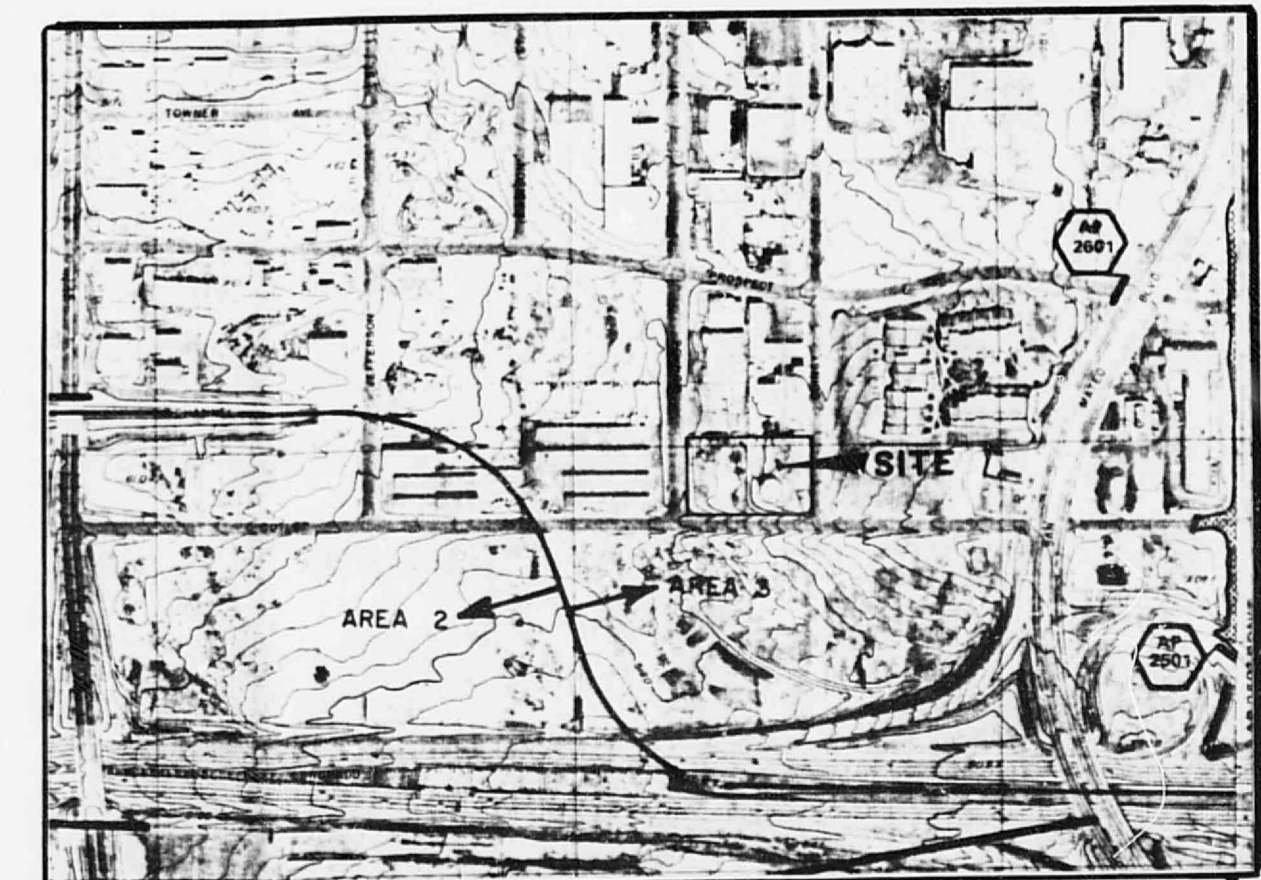


SECTION A

NOTE: PROJECT WILL REQUIRE PERFORMING ALL GRADING OPERATIONS AROUND EXISTING RADIO TOWER & TOWER ANCHORS

- DESIGN**
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Check: Area to inlet, peak flow Q<sub>100</sub> = 4 cfs. Single inlet capacity = 7 cfs - OK
    4. Pipe to handle Q<sub>100</sub> storm flows (Minimum 18" dia., City requirement) (Plate 2.6-0603/02, available upon request).  
Connections to existing inlet using average slope of 3% and Manning's Eq., reduced to Q = AMS<sub>1</sub>, where the constraints of AM are obtained from plate 2.6-0602, 18" pipe = AM of 114 for a concrete pipe.  
Q = 114 (0.02)<sup>1.49</sup> = 16 cfs capacity  
Check: Area to inlet = 4 cfs - OK

- NOTES**
1. Legal: Lot 6-A, Bk 2, Roma-Jean Addition, Albuquerque, NM.
  2. Surveyor: Ron Forstbauer Surveying Co., 12/21/82.
  3. BM: City Brass Cap M367-B, Elevation 5204.26.
  4. 1BM: SW curb return on Cutler Dr. NE, top of curb Elevation 5180.69.
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**FLOOD HAZARD MAP** M17/D21  
**DRAINAGE COPY**

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 TELEPHONE (505) 202-2363

REVISIONS  
 DATE  
 APR. 12, 1983  
 SHEET NO  
 2 OF 23