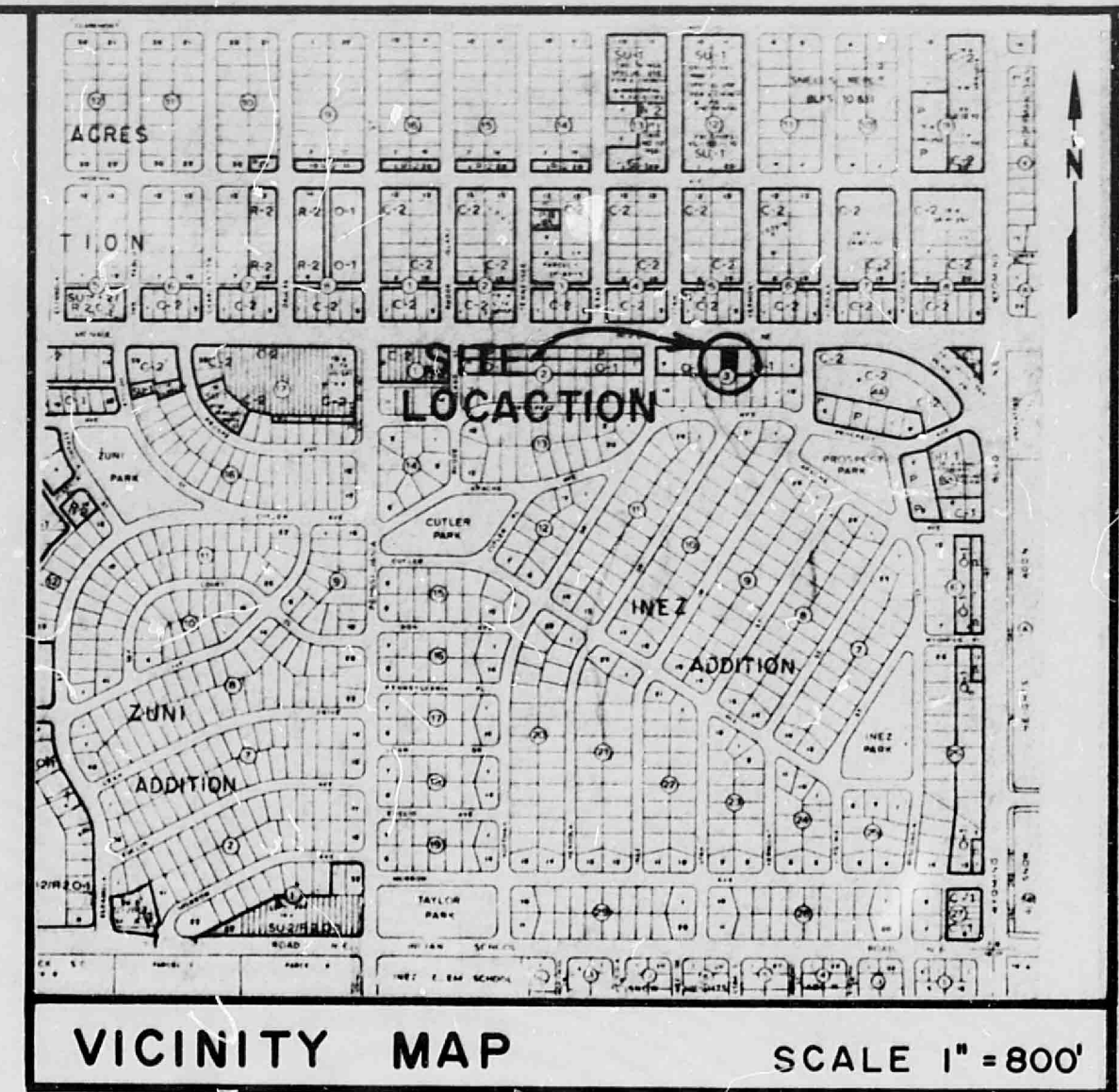
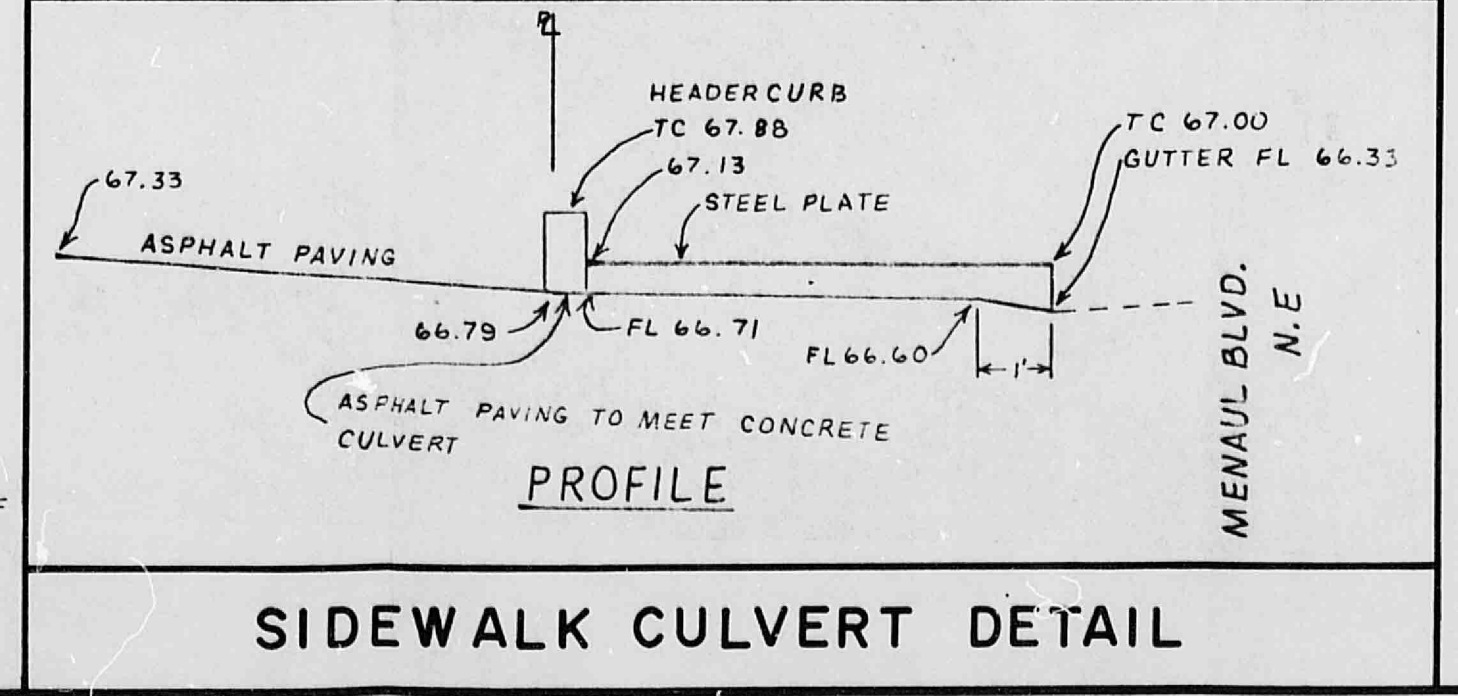
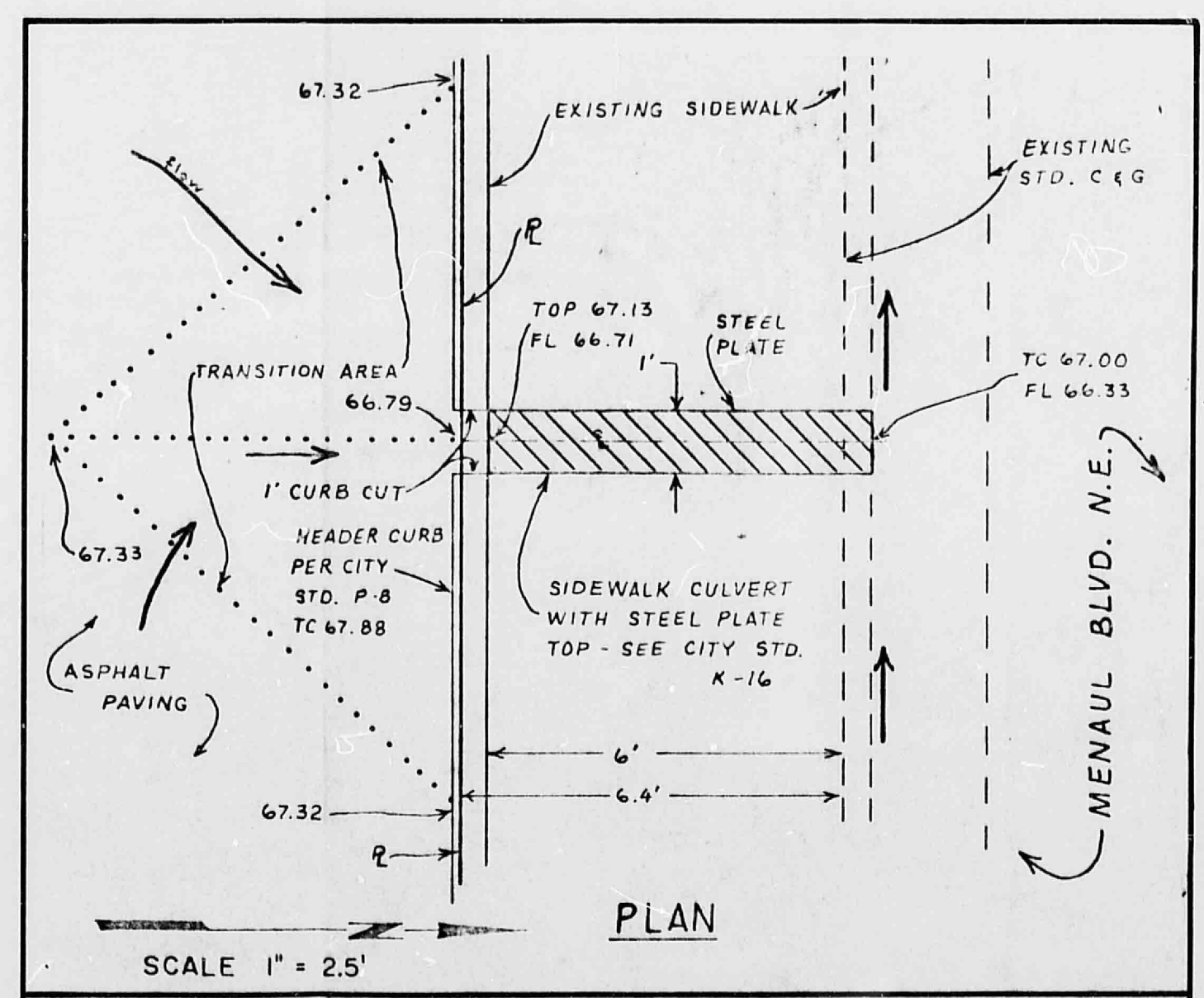


SCALE 1" = 10'



**LEGAL DESCRIPTION**  
 LOT 5 & WESTERLY 2' OF LOT 4 IN BLOCK 3 OF THE INEZ ADDITION; ALBUQUERQUE, NEW MEXICO

- LEGEND**
- 67.9 EXISTING ELEVATION
  - 67.31 PROPOSED ELEVATION
  - DIRECTION OF FLOW
  - ▲ TRANSITION
  - - - EXISTING CONTOUR



**SIDEWALK CULVERT DETAIL**

**GENERAL**  
 Zone Atlas page H-19, Flood Hazard Zone C

**LAND USE**  
 Present - vacant lot with frontage onto Menaul Blvd. N.E. which is paved with curbs and gutters. An office building is to the west. The lot to the east is vacant. There is a concrete block wall along the south property line.  
 Proposed - to be developed as an office building

**SOIL TYPE**  
 Embudo - Gravelly fine sandy loam; and gravelly sandy loam. Hydrologic Soil Group B

**TOTAL LOT AREA**  
 67 ft. X 125 ft.; total area is 8,375 sq. ft. or 0.192 acres

**HYDROLOGY**

**TIME OF CONCENTRATION**  
 Flow length diagonally across property = 141 ft.  
 Slope = 2.6%  
 Time of concentration = 2.4 minutes; Use 10 minutes

**6-HR RAINFALL DEPTH**  
 10-yr. = 1.55 in.  
 100-yr. = 2.36 in.

**RAINFALL INTENSITY**  
 10-yr. = 3.41 in./hr.  
 100-yr. = 5.19 in./hr.

**RUNOFF COEFFICIENTS**  
 Existing condition C = 0.34  
 Developed - draining to street C = 0.72  
 Developed - draining to pond C = 0.34

**RUNOFF RATES**  
 Existing conditions  
 10-yr. = 0.22 cfs.  
 100-yr. = 0.34 cfs.  
 Developed conditions - draining to street  
 10-yr. = 0.41 cfs.  
 100-yr. = 0.63 cfs.  
 Developed condition - draining to pond  
 10-yr. = 0.03 cfs.  
 100-yr. = 0.04 cfs.

**RUNOFF VOLUMES**  
 Existing condition  
 10-yr. = 368 cu. ft.  
 100-yr. = 560 cu. ft.  
 Developed condition - draining to street  
 10-yr. = 709 cu. ft.  
 100-yr. = 1073 cu. ft.  
 Developed condition - draining to pond  
 10-yr. = 45 cu. ft.  
 100-yr. = 68 cu. ft.

**OFF SITE FLOWS**  
 The lot to the west of the project site drains west; there is a concrete block wall on the south side of the lot which prevents any off-site flow from the south. However, the lot to the east drains west across the southern end of the property. This flow will be allowed to continue to drain in the existing pattern through a triangular shaped swale across the southern 15 ft. of the property.

**STREET FLOWS**  
 South curb at Menaul Blvd. N.E.  
 10-yr. - capacity = 6.5 cfs.  
 10-yr. - site flow = 0.44 cfs.  
 100-yr. - capacity = 80 cfs.  
 100-yr. - site flow = 0.63 cfs.  
 Total discharge in Menaul Blvd. N.E. drains to a 54-inch storm sewer in Pennsylvania St. N.E. which then runs into a 72-inch diameter storm sewer in Indian School Rd. N.E. and eventually into the Embudo channel at I-40. Therefore site flows will not have a negative impact on street flows.

**HYDRAULICS**  
 The 3-inch depression in the southern 15 ft. of the property will also act as a pond to hold the 100-year flow which drains to the southern part of the lot. The pond will have the capacity for storm runoff from this project site only. The runoff from the lot to the east will continue through the pond and drain the same way as at present.

**TRIANGULAR SHAPED POND**  
 top width 11.57 ft.  
 depth 0.25 ft.  
 length 48 ft.  
 capacity 69.4 cu. ft.  
 required capacity 68 cu. ft.

APPROVED FOR DRAINAGE  
 10/29/84  
 ADVISE DRAINAGE INSPECTOR  
 WHEN GRADING EXECUTED

DESIGNED BY: E.D.	<b>GRADING AND DRAINAGE PLAN</b>
DRAWN BY: S.D.	
CHECKED BY: E.D.	
OCT. 1984	PREPARED BY: RESOURCE TECHNOLOGY, INC.

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