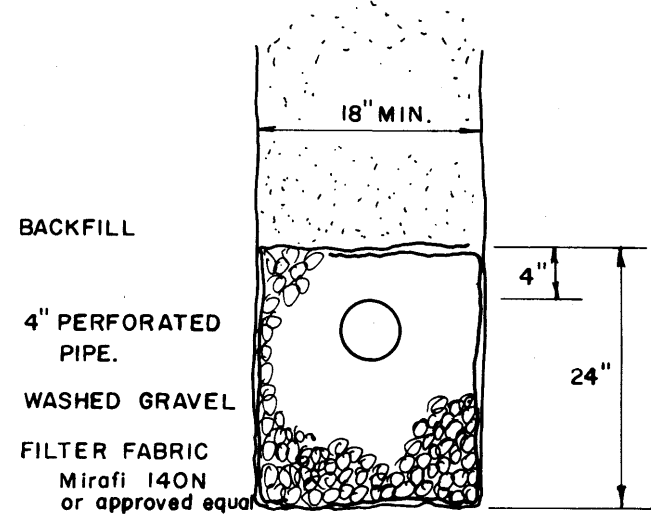
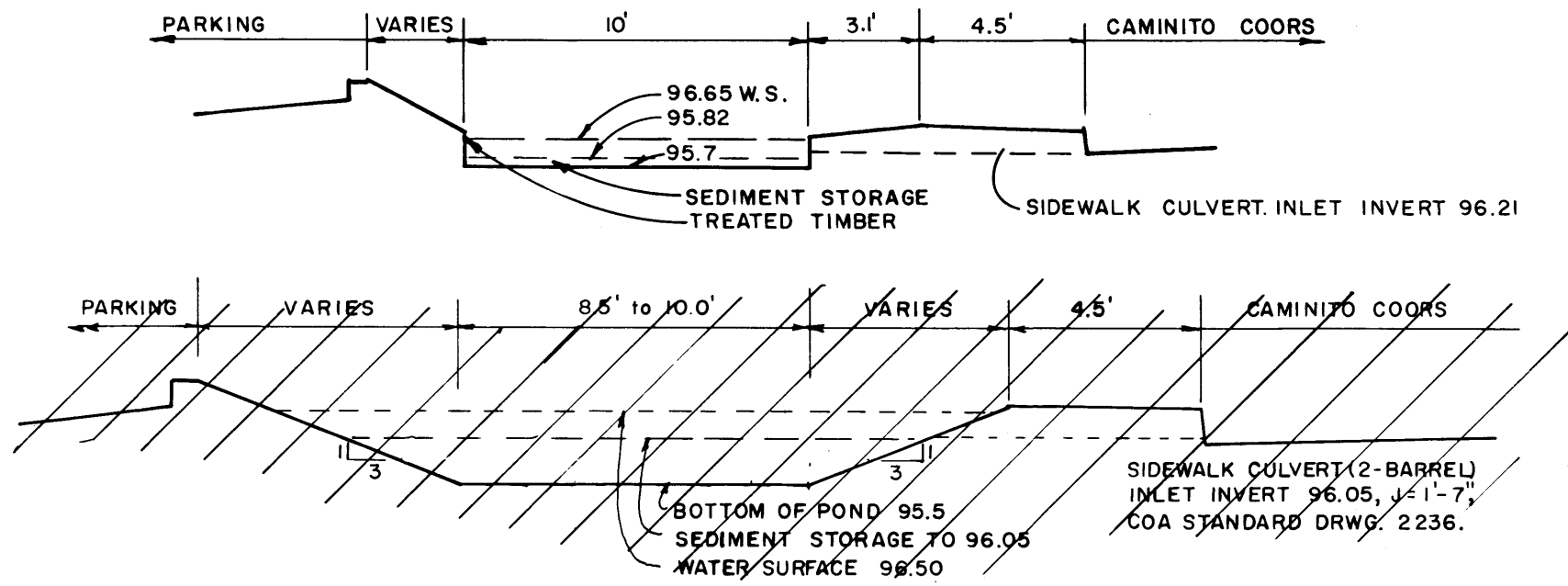
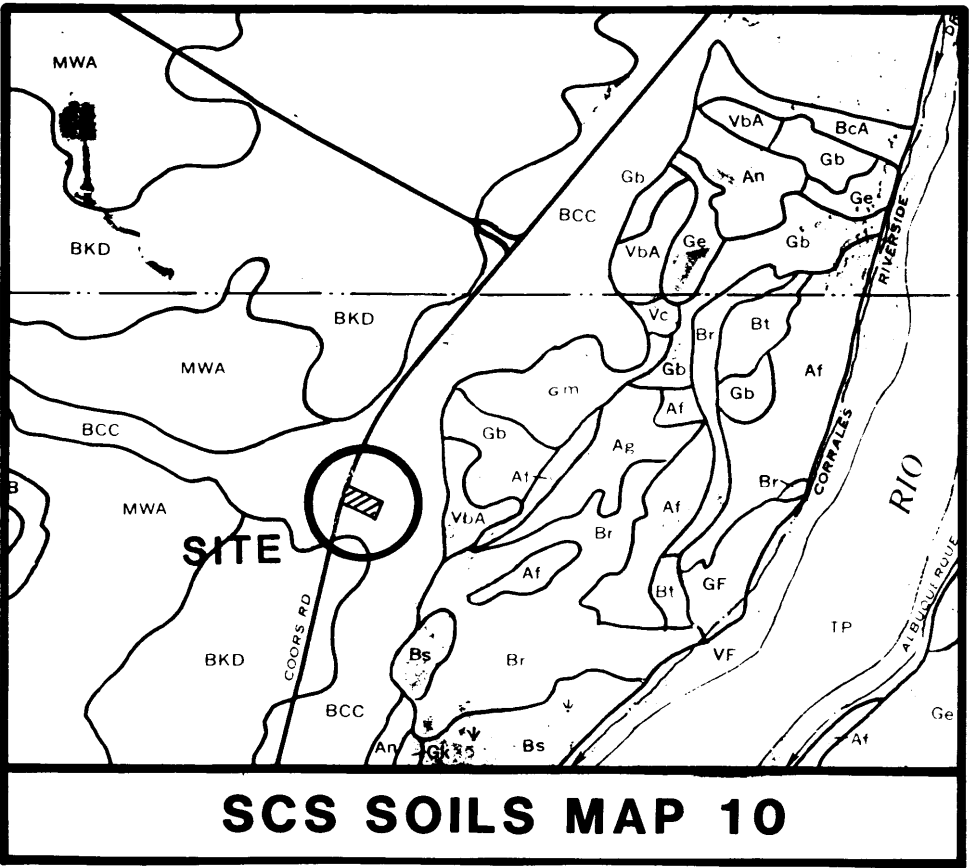
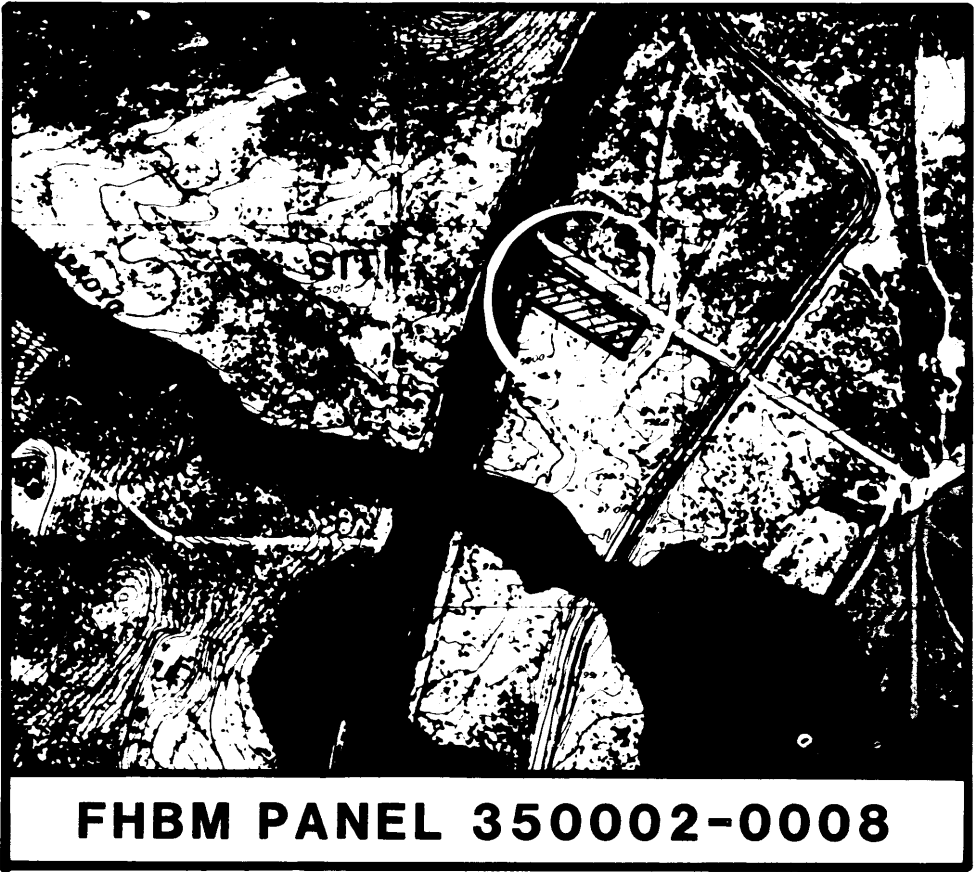
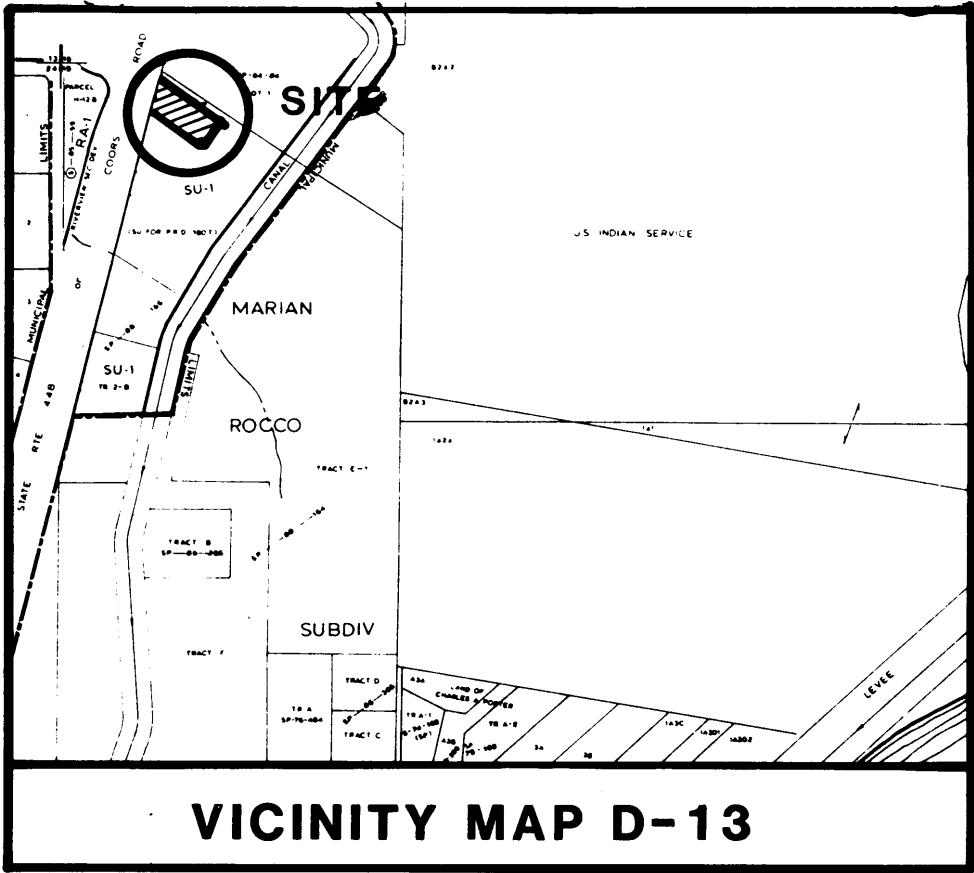




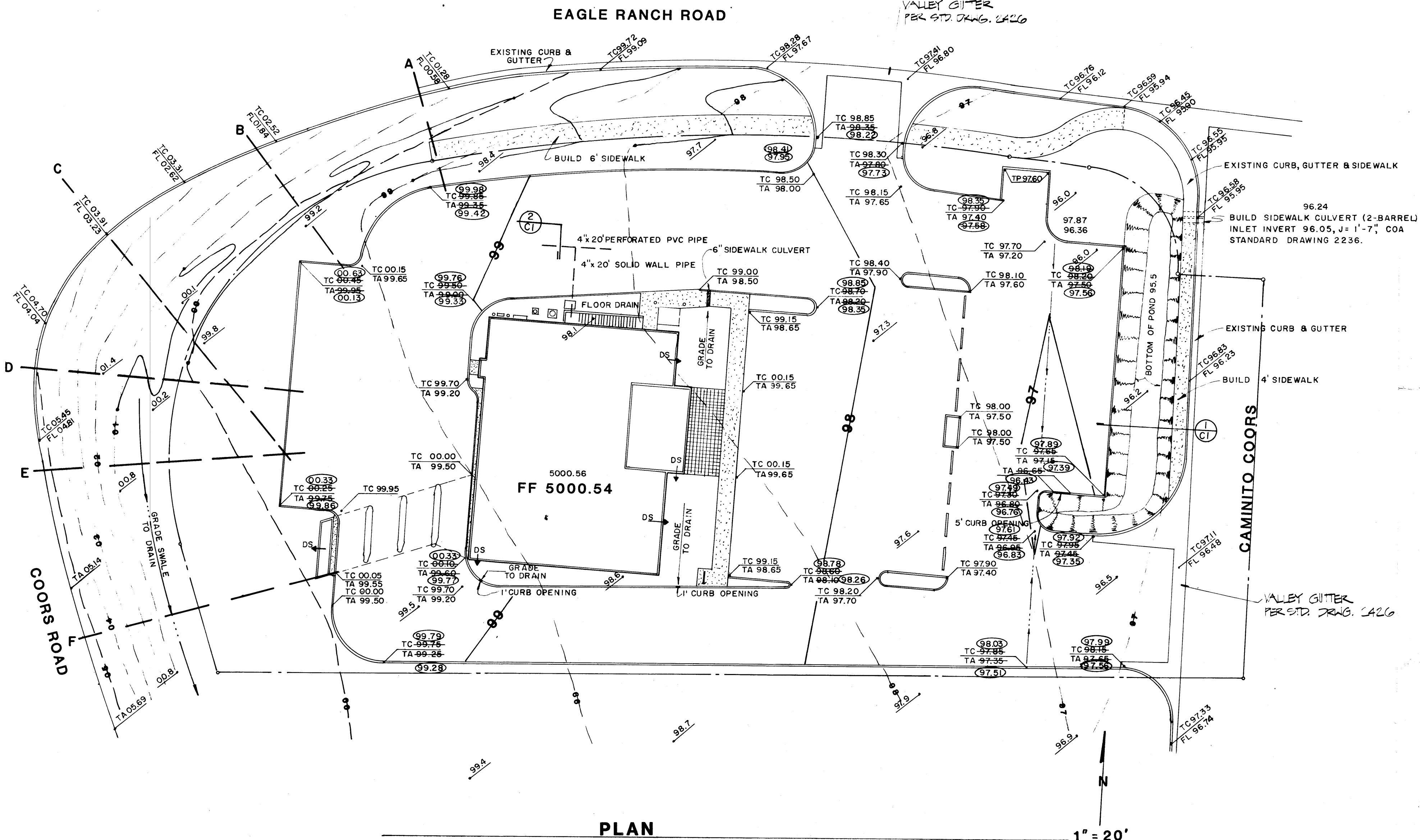
POND 1

DRAIN 2

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work within the City right-of-way, detailed on these plans to be performed, except as otherwise stated or provided herein, shall be constructed in accordance with City of Albuquerque Standard Specifications for Public Works Construction, 1986.
3. Two (2) working days prior to any excavation, the Contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to RESIDENTIAL street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

APPROVALS	NAME	DATE
A.C.E./DESIGN		
INSPECTOR		
A.C.E./FIELD		



DRAINAGE DATA

CONTROL DATA SHOWN BELOW ARE FROM THE MASTER DRAINAGE REPORT FOR "bosque del pueblo" PREPARED BY GREINER, INC. DATED FEBRUARY 6, 1989. THE SUBJECT PROPERTY IS DESIGNATED AS LOT G IN THE REPORT.

DRAINAGE AREA = 0.918 acre
POND SLOPE = 0.025%
DESIGN FLOW = $Q_{100} = 4.38 \text{ cfs}$, $Q_{sed.} = 2.19 \text{ cfs}$
NORMAL DEPTH = 0.45 ft.
VELOCITY = 0.43 ft/sec
SEDIMENT STORAGE = 0.006 ac. ft. = 261 cu. ft.
POND LENGTH = 97 ft.
DETENTION TIME = 226 sec.

THE PROPOSED SITE IS APPROXIMATELY 13% LARGER THAN THE LOT G OF THE GREINER REPORT. IN ADDITION THE RUNOFF FACTOR HAS BEEN SET AT UNITY FOR THIS REPORT. THE SEDIMENTATION POND HAS BEEN ENLARGED BY MORE THAN ENOUGH TO OFFSET THE INCREASED SIZE OF THE SITE. THE FLOW DEPTH IS THE SAME AS THE DEPTH SHOWN FOR THE GREINER REPORT, HOWEVER, THE DETENTION TIME IS SLIGHTLY LONGER.

THERE ARE NO OFFSITE FLOWS THAT ENTER THE PROPOSED SITE AND THE SITE DOES NOT LIE IN A FLOOD HAZARD AREA ACCORDING TO FEMA MAPS DATED OCTOBER 14, 1983.

DRAINAGE AREA = 1.033 acre
POND SLOPE = 0.00%
DESIGN FLOW = $Q_{100} = (1.00)(4.65)(1.033) = 4.80 \text{ cfs}$
 $Q_{sed.} = (0.5)Q_{100} = 2.40 \text{ cfs}$
NORMAL DEPTH = 0.45 ft. 0.44 FT.
SIDEWALK CULVERT WIDTH = $2.40 / (2.60)(0.45)^{3/2} = 3.05 \text{ ft. } 3.16 \text{ FT.}$
USE 2 BARREL WITH J = 1'-6" 1.7'
VELOCITY = $2.4 / (10)(0.44 + 0.38) = 0.29 \text{ FPS}$
SEDIMENT STORAGE = $((.55)(2)(8.5+10)/2) + ((.55)(3))/2 = 88.0 \text{ CU.FT.}$
POND LENGTH = 88 ft.
DETENTION TIME = $88 / 0.29 = 303 \text{ SEC. } > 0.44 / 0.002 = 220 \text{ SEC.}$

LEGEND

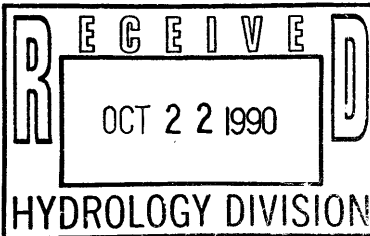
- TBM TEMPORARY BENCHMARK
- FF FINISH FLOOR ELEVATION
- TC TOP OF CURB ELEVATION
- TA TOP OF ASPHALT ELEVATION
- TS TOP OF SIDEWALK ELEVATION
- TP TOP OF CONCRETE PAD ELEVATION
- FL FLOWLINE ELEVATION
- FG FINISH GROUND ELEVATION
- EXISTING ELEVATION
- PROPOSED ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- RECORD ELEVATION

LEGAL DESCRIPTION

LOT 7, BOSQUE DEL PUEBLO

I, J. J. BORDENAVE, BASED ON FIELD SURVEY DATA AND OBSERVATIONS ON OCT. 20, 1990, CERTIFY THAT THE SITE IS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH PLAN D13-D18.

J. J. BORDENAVE, PE & PS NO. 5110



GRADING AND DRAINAGE PLAN
SUNWEST BANK

C-1

