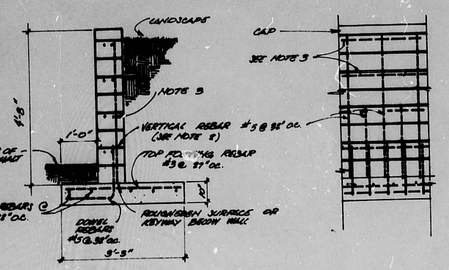
AF 22440A

RETAINING WALL DETAIL

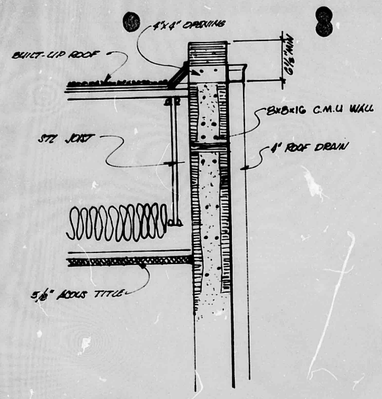


NOTES

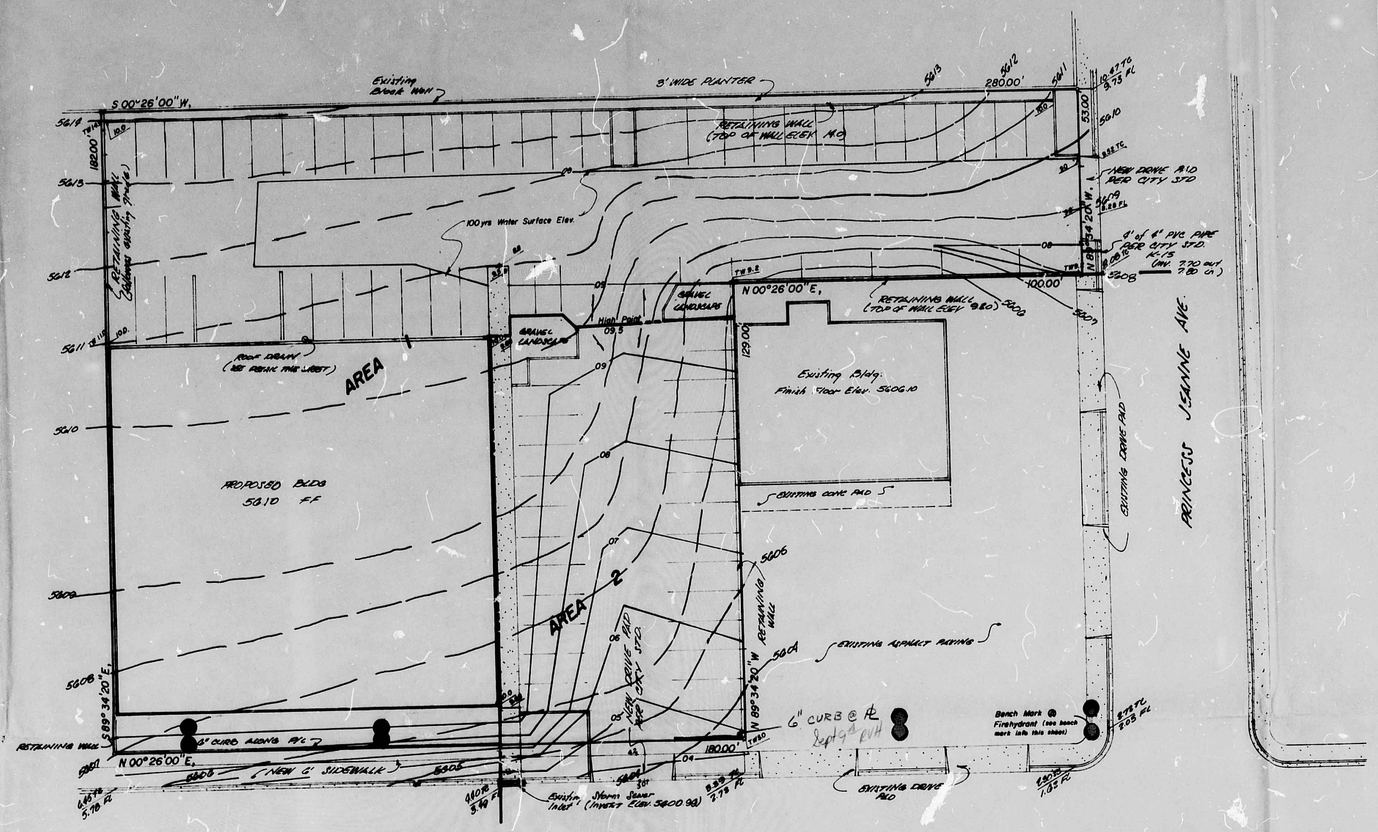
1) REINFORCING BARS SHOULD HAVE STANDARD DEFORMATIONS AND A YIELD STRENGTH OF 60,000 P.S.I.

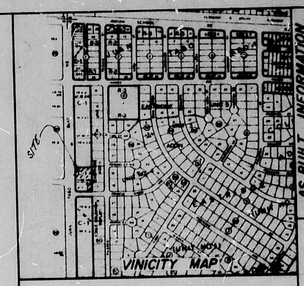
2) ALTERNATE VERTICAL REINFORCING BARS MAY BE TERMINATED AT THE MIDHEIGHT OF THE WALL. EVERY THIRD BAR MAY BE TERMINATED AT THE UPPER THIRD-POINT OF THE WALL HEIGHT.

3) THE WALL SHOULD HAVE HORIZONTAL JOINT REINFORCEMENT AT EVERY COURSE OR ELSE A HORIZONTAL BOND BEAM WITH TWO NO. 4 BARS EVER 16" (O.C.)



DRIAN DETAIL





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ENGINEERING

CALCULATIONS

EXISTING CONDITIONS VACANT LAND
Grading on South property line adjacent to Circle K 10% slopes on North 50'

AREA 38,060 sq. ft. 0.874 ac. 6 hr. rainfall volume 100 yr. freq. 2.5" Plate D-1
Time of Concentration calc.
Length= 200' Slope = 10'/200' = 0.05 ft/ft
Tc = 0.0078 x L exp. 0.77 / S exp)0.385 = 1.46 min. Use Tc = 10'

INTENSITY = 189 /(Tc+ 25) = 5.4 "/hr. Coef. of runoff from plate C-1

SCS Soil group B " TgB " page 83 Bernalillo County Report C = 0.34

Q = C I A = 0.34 x 5.4" x 0.8737 ac. = 1.60 cfs. existing runoff

DEVELOPED CONDITIONS

Roof area = 11,444 sq. ft. paving and sidewalk area = 24,466 sq. ft. open area = 2150 sq.
Use Tc = 10 min. I = 5.4 in/hr

Q = 1.0 x 5.4 x 0.824 ac + 0.3 x 5.4 x 0.049 ac = 4.53 cfs total runoff

DRAINAGE AREA 1 will contain runoff from roof and parking in area 1 only

DRAINAGE AREA 2 will runoff directly to JUAN TABO Blvd.

DRAINAGE AREA 1 CALCULATIONS

Roof Pond =(2.5" / 12) x area (11,444 sq. ft.) = 2,384 cu. ft.

Paving Pond = Length x width x depth x 1/3 = 250 x 25 x 1.22 x 1/3 = 2,542 cu. ft.

TOTAL PONDING on site 4,926 cu. ft. all included in AREA 1

DRAINAGE AREA 2 paving discharge to Juan Tabo.
area = 70' x 110' = 7700 sq. ft.
Runoff volume =(2.5"/hr / 12) x area (7700') = 1604 cu. ft. to Juan Tabo

TOTAL RUNOFF VOLUME REQUIRED = 2.5/12 x 38,060 = 7,929 cu/ft

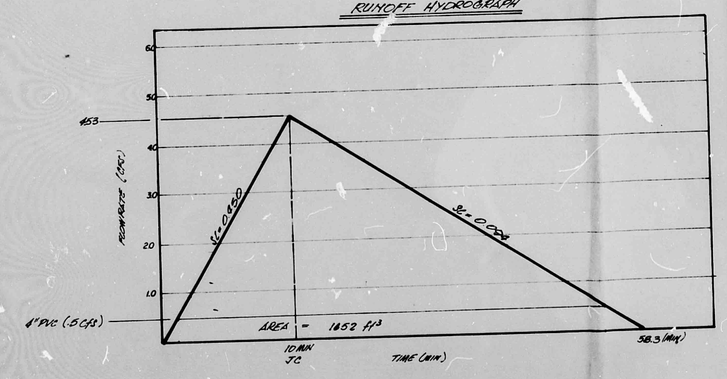
1604/ 7929 = .20 or 20% not retained but allowed free discharge to Juan Tabo.

RELEASE RATE OF 4" PVC = 826 Cu. ft. see graph

NORTH

SCALE 1"=20'
0 5 10 20 40

RUNOFF HYDROGRAPH



SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

BENCH MARKS

BENCH MARK: No 9-1-17, ELEVATION 5625.696
LOCATION: AT THE INTERSECTION OF MONT TRIO BLVD. AND PROSPECT JOHNNY AVE. N.E. IN THE NE GUTTER OF THE INTERSECTION.
DESCRIPTION: AN "X" CHISELED ON THE SOUTH BONNET BOLT OF A FIRE HYDRANT.

CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FINAL VERIFICATION BY
CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
NO.
DATE

AS BUILT INFORMATION

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY RICHARD HALL DATE AUG. 1983
DRAWN BY NORMAN HEAD DATE AUG 1985
CHECKED BY RICHARD HALL DATE AUG 1985

J22/D51

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: LES'S AUTO PARTS
GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. | MAP NO. | SHEET OF