HYDROLOGY F20/D15A FISHBACK SCHOOL OF DANCE

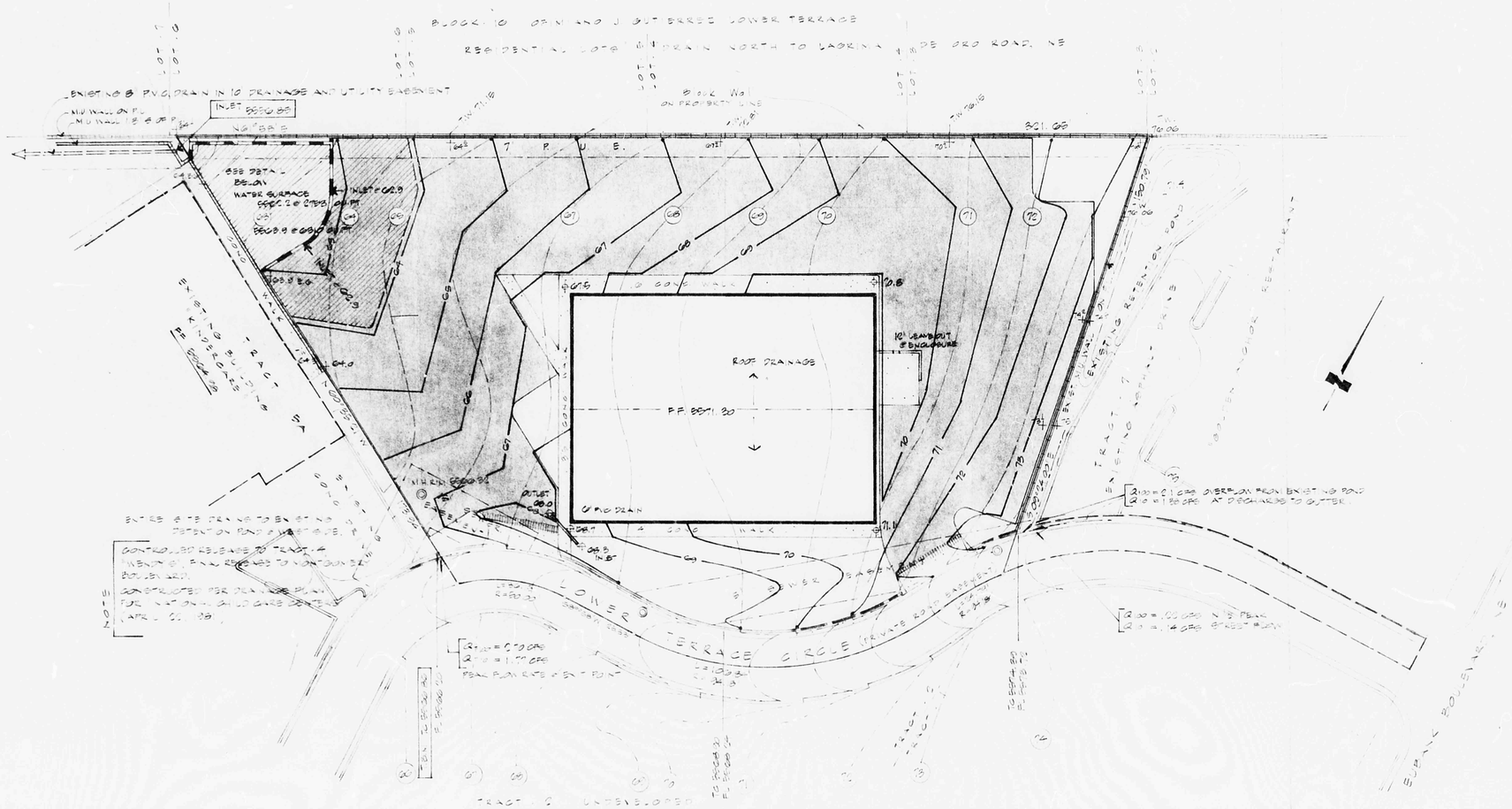
F20/D15A

FISHBACK

SCHOOL OF

DANCE

1 PLAN



CALCULATIONS

AREA OF SITE EXCLUDING STREET (SQ. FT. = .88 AC)

SLOPE 4%

SOIL GROUP B

PERVIOUS COVERAGE 84%

NOD & SCS C FACTOR .84

100 YR RAINFALL 2.8 IN

TIME OF CONCENTRATION 10 MINUTES

INTENSITY 5.4 IN/HR

ON SITE RUNOFF (PERVIOUS)

Q100 = .84 x 5.4 x .88 = 3.70 CFS

Q10 = .67 x Q100 = 1.67 CFS

OFF SITE RUNOFF

NO OVERLAND FLOWS ENTER SITE

NOTE THAT NUMBERED ACCESS EASEMENT LOWER TERRACE CIRCLE ACCOUNTS FOR 0.30 OF THE 0.88 AC OF GROSS AREA OF LOT

- N. 1/2 OF STREET LYING EAST OF SITE = .16 AC

Q100 = 1.0 x 5.4 x .16 = .86 CFS

Q10 = .67 x Q100 = .58 CFS

- PEAK OF SUBDIVISION PRIVATE STREET (10' DRIVEWAY ALLOWED)

Q100 = 1.0 x 5.4 x .50 = 2.70 CFS

Q10 = .67 x Q100 = 1.80 CFS

- HALF OF STREET ON PROPERTY

Q100 = 1.0 x 5.4 x .07 = .38 CFS

Q10 = .09 CFS

Q100 OVER FLOWING ENTRANCE SOUTHEAST CORNER OF PROPERTY

Q100 = 3.70 CFS

Q10 = 1.70 CFS

ENTRANCE ON SITE CONDITIONS

AREA EXCLUSIVE OF NORTH 1/2 STREET DRAINING INLET OF ENTRANCE & PIPE AT SOUTHWEST CORNER OF SITE

Q100 = .80 x 5.4 x .33 = 1.01 CFS

8" PIPE CAPACITY

LENGTH = 30

INLET 5000.0 AS

OUTLET 5000.0 AS BUILT

SLOPE .0001 AS BUILT

V = 1.49/.013 x (.01)^1/2 x .33^2/3 = 9.08 FT/SEC

Q = AV = .28 x 9.08 = 1.00 CFS PIPE CAPACITY

NOTE: PIPE DISCHARGE (PER PLAN NOT ON AS BUILT) WAS 1.08 CFS. INLET SLOPE IS TYPICAL FOR ALL INLETS ON WINDING ARC PER PLAN TO ACCOMMODATE THE THROUGH INTERSLOPED PEAK FLOW OF 1.01 CFS

REQUIRED RETENTION (HYDROGRAPH ROUTING)

ON SITE VOLUME GENERATED V = 36000 x .84 x 0.8/12 = 2010.0 CU. FT.

Qp = 3.70 CFS T = 2010 x 12 / 3.70 = 6520 SEC.

6520 x 1.00 = 6520 CUBIC FT. DISCHARGE FOR DURATION

2010 - 6520 = -4510 CU. FT. NET DETENTION

(SEE POND DETAIL AT LEFT)

DRAINAGE PLAN

4810 LOWER TERRACE CIRCLE, NE

TRACT G-2 SUMMARY PLAT PENDING @ D.R.B.

REPLAT OF TRACTS D-1 VOL C8 AMENDED REPLAT TRACT G-1 OF N AND J OF BUTTERFIELD LOWER TERRACE

ALBUQUERQUE, NEW MEXICO

FOR

FIGLEAF STUDIO OF THE DANCE

PREPARED BY

ENCHANTMENT ENGINEERING

7800 MARBLE AVENUE, NE

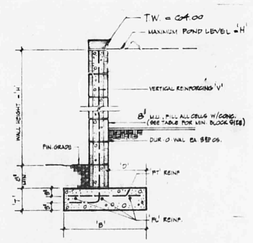
ALBUQUERQUE, NEW MEXICO 87110

NOVEMBER 1984

Dec. 12, 1984

RECEIVED
DEC 12 1984
DESIGN HYDROLOGY SECTION

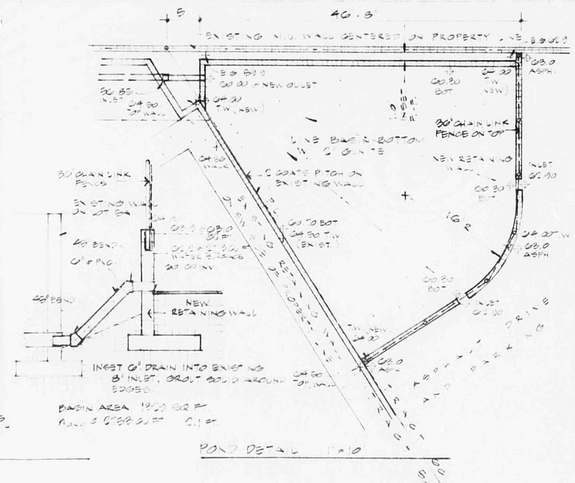
F20/D15a



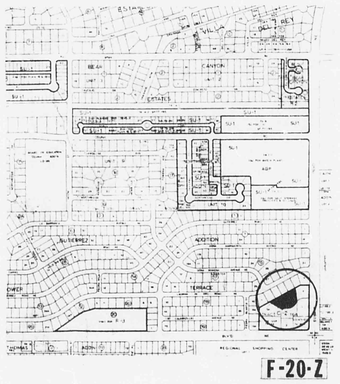
	WALL HEIGHT "H"	BLOCK WIDTH (MIN.)	FOOTING "W"	HOR. "D"	VERT. REINFORCING	FOOTING REINFORCING "T"	FOOTING REINFORCING "L"
	1'-4'	6"	1'-8"	2' (8")	#5@8" O.C.	—	#4@12" O.C.
	4'-6"	6"	1'-8"	2' (1'-1")	#5@8" O.C.	—	1
	6'-8"	6"	2'-0"	1'-1" (10")	#4@8" O.C.	—	1
	8'-10"	8"	2'-0"	1'-1"	#6@8" O.C.	#5@8" O.C.	#5@12" O.C.
	10'-12"	8"	2'-8"	1'-4"	#6@8" O.C.	#6@8" O.C.	1
	12'-14"	8"	3'-1"	1'-6"	#6@8" O.C.	#6@8" O.C.	1
	14'-16"	8"	3'-6"	1'-8"	#6@8" O.C.	#5@8" O.C.	#4@12" O.C.
	16'-18"	8"	3'-9"	2'-4"	#6@8" O.C.	#6@8" O.C.	#4@12" O.C.

NOTE TO CONTRACTOR: RETAINING WALL REQUIRES SEPARATE PERMIT

WALL SECTION



POND DETAIL



VICINITY MAP

BENCH MARK

11 FOD 11 CUT ON NW CURB RETURN AT INTERSECT ON OF NORTHBOUND BOULDER AND PEORIA BLVD. STREET NE

ELEV. 5551.611

TBM

TOP OF CURB 40.0 TO S.E. PROPERTY CORNER

ELEV. 5550.80

LEGEND

CONTOUR INTERVAL ONE FOOT

(70) EXISTING CONTOUR

70 PROPOSED CONTOUR

⊥0.0 EXISTING GRADE ELEVATION

+0.0 PROPOSED GRADE ELEVATION

PROPOSED CONTOURS AND GRADE ELEVATIONS ARE TO BE ON SURFACE

CONTRACTOR SHALL DETERMINE APPROPRIATE SUBGRADES.

INTERNAL DIVISION OF FLOWS

EXTENT OF POND & FULL GENERATED VOLUME

PLAN SCALE 1" = 20'

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