HYDROLOGY K12/D1a 1 PLAN

K12/D1a

1 Plan

CITY OF ALBUQUERQUE
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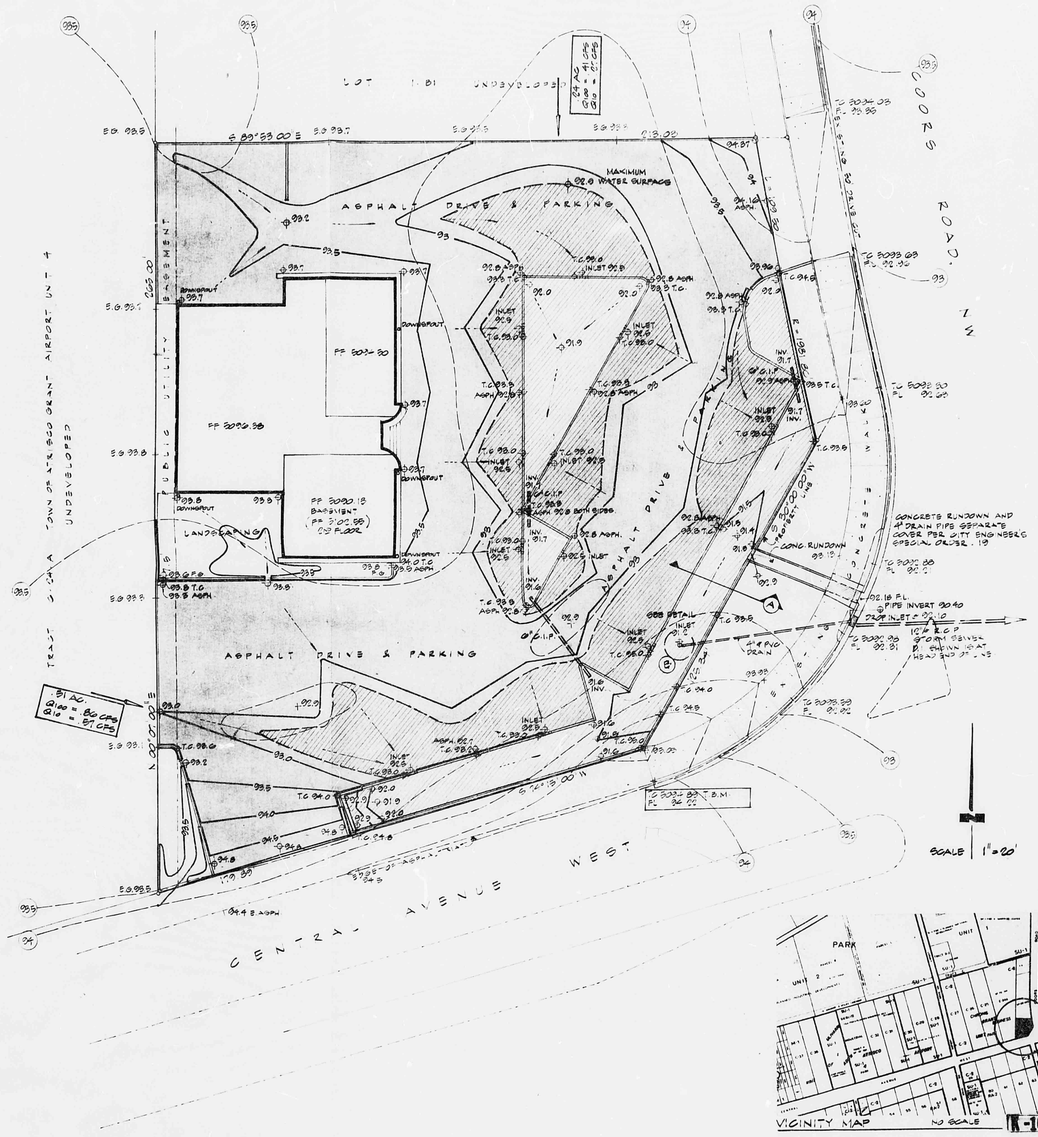
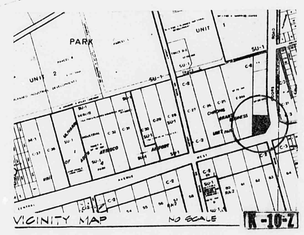
CITY OF ALBUQUERQUE

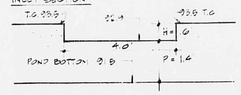




SPILLWAY (CONCRETE RUNDOWN)

Q_{max} OVERFLOW
= 4.61 × 80 = 4 = 2.34 CFS

INLET SECTION

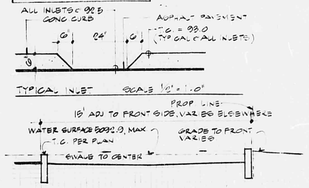


$Q = KLH^{3/2}$, K = 3.33 FOR P AND H VALUES SHOWN
= 3.33 × 4.0 × 0^{3/2} = 0.0 CFS (≈ 0.34 CFS)

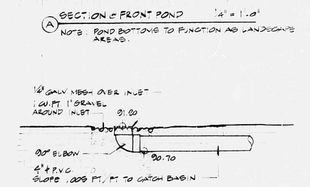
V THROUGH RUNDOWN OF SAME CROSS SECTION
$= \frac{1.486}{.018} \times \frac{(4)(.67)}{(5.0)} \times \frac{(5.0 \cdot 3.0)^{2/3}}{40}$
= 83.03 × 50 × 1.2 = 7.71 ft/sec

Q = AV = 4 × 6 × 7.71 = 18.9 CFS

SEE SPECIAL ORDER - 19

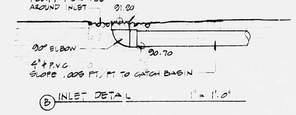


TYPICAL INLET SCALE 1/4" = 1'-0"



(A) SECTION - FRONT POND "A" = 1'-0"

NOTE: POND BOTTOM TO FUNCTION AS LANDSCAPE AREA.



(B) INLET DETAIL 1" = 1'-0"

BENCH MARK

NM 445 - NIA ACS BRASS CAP 1.7 FT SOUTH OF NODE OF MEDIAN N.C. COOKE RD. 20.0 NORTH OF CENTER LINE OF CENTRAL AVENUE
ELEV. 5091.831

T.B.M.

TOP OF CURB @ W.N.W. CURB RETURN (A21) TO ENTRANCE 65' PROPERTY CORNER
ELEV. 5094.82

LEGEND

CONTOUR INTERVAL - ONE-HALF FOOT

(99) EXISTING CONTOUR
99 PROPOSED CONTOUR
+ 99.0 EXISTING SPOT ELEVATION
+ 99.0 PROPOSED SPOT ELEVATION

PROPOSED CONTOURS AND ELEVATIONS INDICATE FINISH SURFACES

EXTENT OF POND, MAX (ELEV @ 5092.0)

PLAN SCALE 1" = 20'

CALCULATIONS

AREA DATA [illegible]
SLOPE [illegible]
SOIL [illegible]
DEVELOPED LANDSCAPE [illegible]
RUNOFF FACTOR [illegible]
100 YR RAINFALL [illegible]
TIME OF CONCENTRATION [illegible]
INTENSITY [illegible]

ONSITE FLOW DATA

Q100 = [illegible] = [illegible]
Q10 = [illegible] = [illegible]

DEVELOPED RUNOFF - INLET

NOTE: [illegible] AREA [illegible] 500 FT [illegible] DEVELOPMENT HAS NO [illegible] THAN [illegible] INTENSITY ON [illegible] 0.000 [illegible] 50 YR [illegible] ONTO RUNOFF TO [illegible] ENTER POINT [illegible] NORTH [illegible] PROPERTY. [illegible] NO INTERVENING [illegible] RUNOFF FACTOR = [illegible]
Q100 = [illegible] = [illegible] PEAK
Q10 = [illegible] = [illegible]

DEVELOPED RUNOFF - NORTH

10000 SF, .23 AC
ENTER POINT TO INLET IN THE POND DIRECTLY NO INTERVENING CONDITIONS
Q100 = [illegible] = [illegible] PEAK
Q10 = [illegible] = [illegible]

REQUIRED POND

ONSITE DRAINAGE AREA .116 AC
Q100 = [illegible] = [illegible]
Q10 = [illegible] = [illegible]
ASSUMING [illegible] FROM RETENTION AREA
Q100 = [illegible]
Q10 = [illegible]
[illegible] = [illegible] NET REQUIRED VOLUME

PROPOSED RETENTION

LANDSCAPE AREA [illegible] AVG DEPTH
AVG DEPTH = [illegible]
• VOLUME TO CURB INLET = [illegible]
• VOLUME INLET ELEV TO MAX CONDITIONS [illegible]
AREA OF MAXIMUM CONDITIONS
= [illegible]
= [illegible]
= [illegible]
TOTAL = [illegible]

DRAINAGE PLAN

101 COOKE ROAD NE
LOT 1-B1 (PLAT BOOK [illegible])
SHERATON BUSINESS PARK
ALBUQUERQUE, NEW MEXICO

FOR

P.G. MCHENRY, ARCHITECT

PREPARED BY

ENCHANTMENT ENGINEERING
[illegible] INDIAN SCHOOL ROAD NE
ALBUQUERQUE, NM
505 [illegible]

MARCH 26, 1984

APR 02 1984
HYDROLOGY SECTION

SHEET C1 OF 17

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