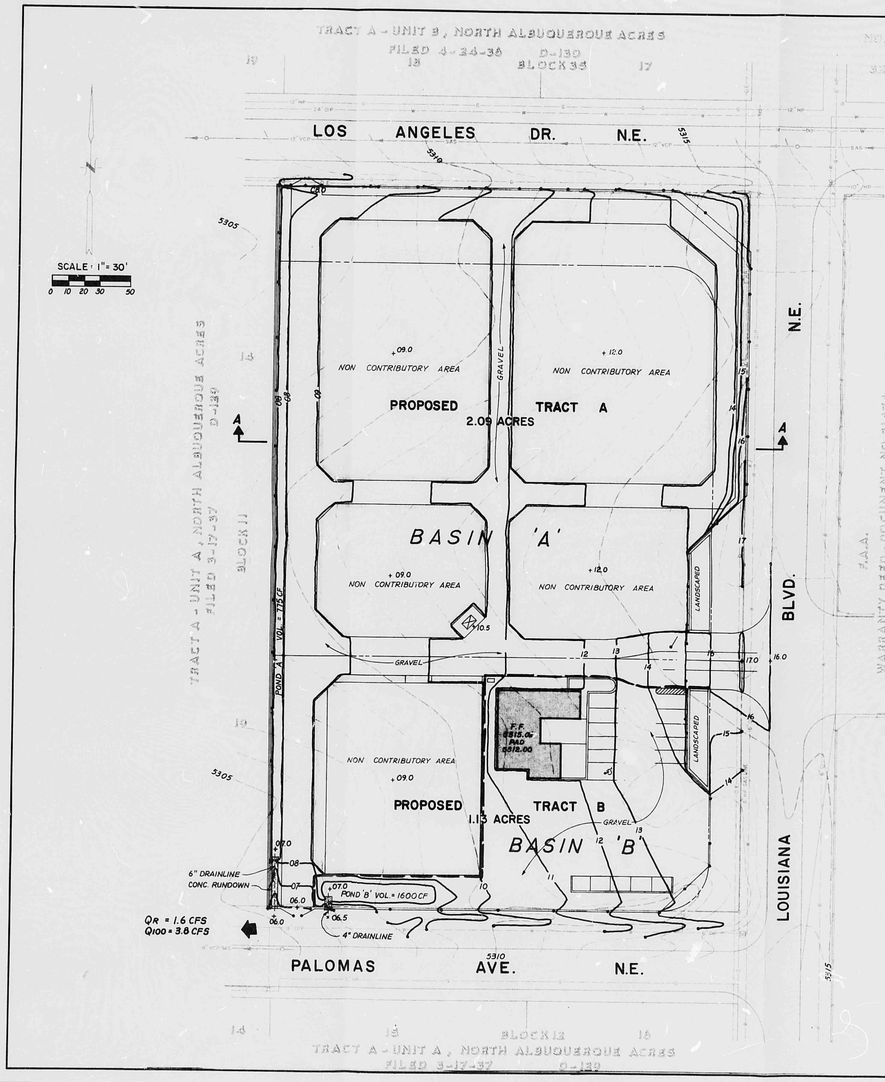


CALCULATIONS

1. DESIGN CONSTANTS
   P100=2.35 IN. P10=1.54 IN.
   Tc=0.0078L+0.77/S+0.385
   i=P6.84Tc+(-0.51)
   Q=CiA
   VOLUME=PCA
   SOIL: EMBUDO TIJERAS COMPLEX - SOIL GROUP 'B'

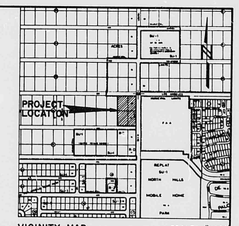
2. EXISTING CONDITION
   A=3.22 ACRES
   C=0.34
   Tc=10 MIN.
   i100=4.97 IN/HR i10=3.26 IN/HR
   Q100=5.4 CFS Q10=3.6 CFS
   V100=9340 CF V10=6135 CF

3. DEVELOPED CONDITION
   A. BASIN 'A'
   TOTAL AREA=2.65 ACRES
   CONTRIBUTORY AREA=0.90 ACRES
   C=0.52
   Tc=10 MIN.
   i100=4.97 IN/HR i10=3.26 IN/HR
   Q100=3.3 CFS Q10=1.5 CFS
   V100=3990 CF V10=2625 CF
   ALLOWABLE DISCHARGE=0.5 CFS/AC
   Qr=1.3 CFS

   BY SOLVING HYDROGRAPH: POND VOLUME=775 CF

   B. BASIN 'B'
   TOTAL AREA=0.57 ACRES
   C=0.52
   Tc=10 MIN.
   i100=4.97 IN/HR i10=3.26 IN/HR
   Q100=1.5 CFS Q10=1.0 CFS
   V100=2530 CF V10=1660 CF
   ALLOWABLE DISCHARGE=0.5CFS/AC
   Qr=0.3 CFS

   BY SOLVING HYDROGRAPH: POND VOLUME=1600 CF



VICINITY MAP
ZONE ATLAS D-18Z
SCALE: 1"=800

CONCEPTUAL DRAINAGE PLAN

This Conceptual Drainage Plan shows 1) existing and proposed elevations indicated by spot elevations and contours at 1'-0" intervals; 2) proposed buildings, parking areas, gravel drives, and material storage areas; and 3) proposed drainage features.

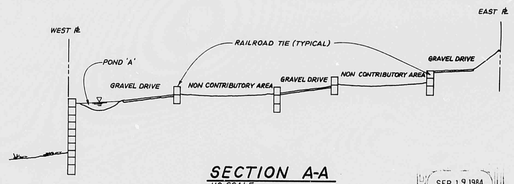
The proposed improvements are located at the southwest quadrant of the intersection of Los Angeles Drive N.E. and Louisiana Boulevard, N.E. The site is more particularly described as Lots 15-18, Block 11, Tract A, Unit A, North Albuquerque Acres. The site is approximately 3.22 acres in size and will be developed as a landscaping and nursery business.

This site does not lie within a flood hazard zone. No offsite flows enter the property.

The site is presently undeveloped. All storm runoff flows west onto adjacent property. This storm water eventually drains into the I-25 Right-of-way.

As shown by the plan, all storm runoff will be directed into two (2) ponding areas. A unit discharge rate of 0.5 CFS per acre was assumed, which yields a total discharge rate of approximately 1.6 CFS for the developed site. Both ponds will drain into Palomas Avenue, N.E. near the southwest corner of the site. The concept used for this plan was to use storm water for irrigation. Non-contributory areas (100% ponded) were created by holding water in the plant storage areas. This concept, along with the minimal percentage of impervious area, yields a developed peak discharge of 3.8 CFS compared to a existing discharge of 3.4 CFS.

Erosion will not result due to this development as all exposed soil will be covered. Temporary erosion control measures during the construction phase will consist of a ditch-dike system placed around the perimeter of the site.



SECTION A-A
NO SCALE

RECEIVED
SEP 19 1984
HYDROLOGY SECTION

LEGAL DESCRIPTION: NOW COMPRISING OF LOT A, BLOCK 11, TRACT A, UNIT A, NORTH ALBUQUERQUE ACRES.

BENCHMARK: ACS BRASS CAP 1-C19 STAMPED "1-C19 N.A.A. LOT 82, BLK. 10," SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. ELEV. = 5318.195

NON CONTRIBUTORY AREA (100% PONDED)
BASIN BOUNDARY
17.0 NEW SPOT ELEVATION
+08.0 EXISTING SPOT ELEVATION
CONCRETE RUNDOWN
14 NEW CONTOUR
EXISTING CONTOUR
NEW 6' CHAIN LINK FENCE
NEW BUILDING

NO	REVISIONS	BY	DATE
1	RESPONSE TO TECH. DRAINAGE SECTION COMMENTS, NEW FIN. FLR. ELEV.	RD	9/19/84

LOEPER NURSERY
CONCEPTUAL GRADING & DRAINAGE PLAN

ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD N.E. SUITE 204
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 255-1625

DESIGNED BY O.L. DATE AUGUST 1984
DRAWN BY R.D. FB
CHECKED BY
APPROVED BY
J.C. NO. 5326-01
SHEET NO. 4 OF 5 SHEETS

D-18/D015

RV 21 DATE 2-28-92 OP ETP
CITY OF ALBUQUERQUE
This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the PUBLIC WORKS DEPARTMENT - HYDROLOGY DIVISION and was filmed in the normal course of business. The photographic processes used meet the Basic Microfilm Standards of the National Micrographics Association (NS115-1977).
Kara Causey
CITY CLERK RECORDER
OFFICIAL SEAL NORBERTA SANCHEZ NOTARY PUBLIC STATE OF NEW MEXICO
My Commission Expires: May 8, 1993
Norberta Sanchez

THIS PLAN SHOT TWICE
ONCE ON LIGHT AND
ONCE ON DARK.

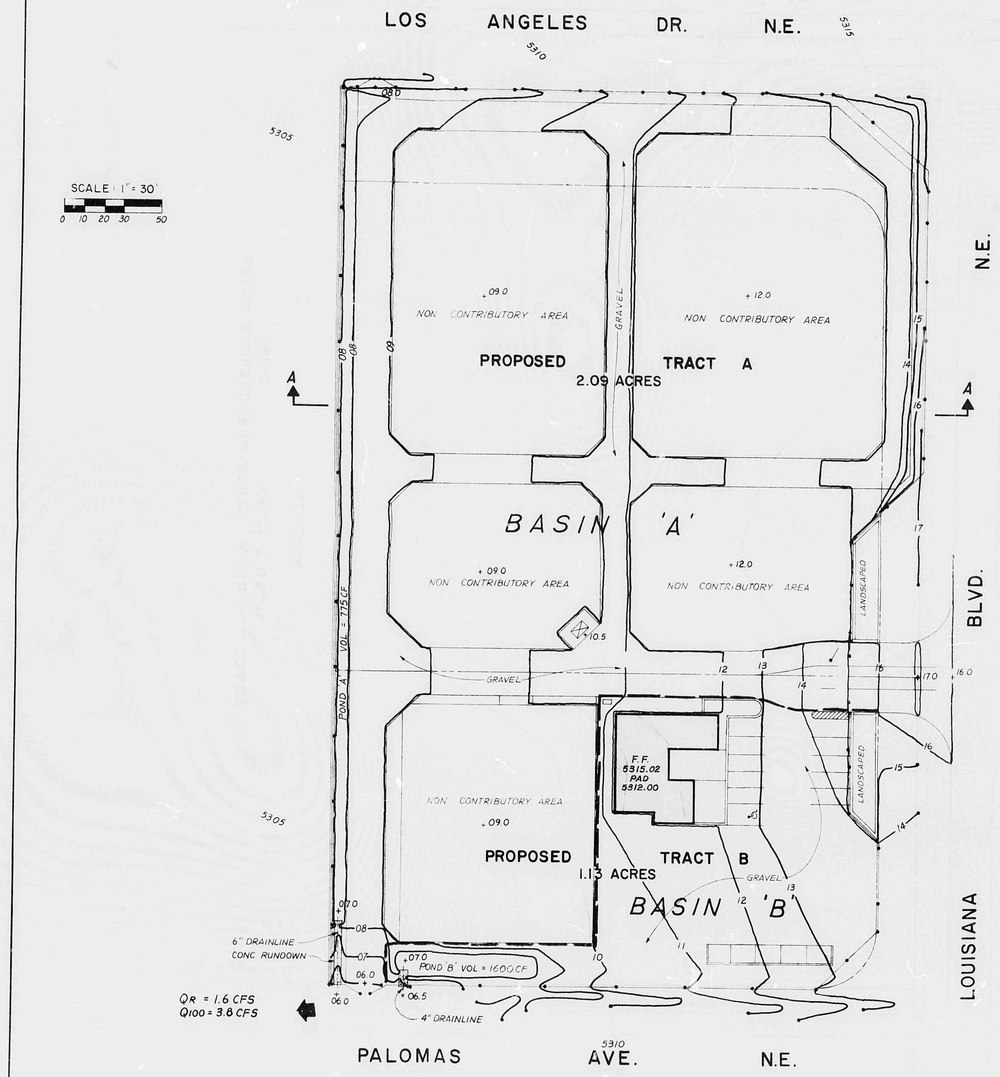
CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

PLANS/PLATS ON FILE

FILE DESC: D-18/D015

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F



CALCULATIONS

1. DESIGN CONSTANTS
P100=2.35 IN. P10=1.54 IN.
Tc=0.0076L+0.77/S+0.385
1=P6.84Tc+(10.51)
Q=CIA
VOLUME=PCA
SOIL: EMBUDO TIJERAS COMPLEX - SOIL GROUP 'B'

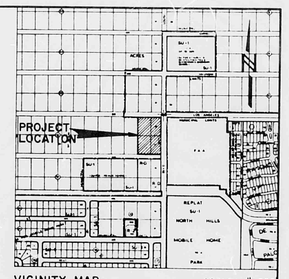
2. EXISTING CONDITION
A=3.22 ACRES
C=0.34
Tc=10 MIN.
I100=4.97 IN/HR I10=3.26 IN/HR
Q100=5.4 CFS Q10=3.5 CFS
V100=9340 CF V10=6135 CF

3. DEVELOPED CONDITION
A. BASIN 'A'
TOTAL AREA=2.65 ACRES
CONTRIBUTORY AREA=0.90 ACRES
C=0.52
Tc=10 MIN.
I100=4.97 IN/HR I10=3.26 IN/HR
Q100=2.3 CFS Q10=1.5 CFS
V100=3900 CF V10=2625 CF
ALLOWABLE DISCHARGE=0.5 CFS/AC
Qr=1.3 CFS

BY SOLVING HYDROGRAPH: POND VOLUME=775 CF

B. BASIN 'B'
TOTAL AREA=0.57 ACRES
C=0.52
Tc=10 MIN.
I100=4.97 IN/HR I10=3.26 IN/HR
Q100=1.5 CFS Q10=1.0 CFS
V100=2530 CF V10=1660 CF
ALLOWABLE DISCHARGE=0.5CFS/AC
Qr=0.3 CFS

BY SOLVING HYDROGRAPH: POND VOLUME=1600 CF



VICINITY MAP SCALE 1"=800'
ZONE ATLAS D-18Z

CONCEPTUAL DRAINAGE PLAN

This Conceptual Drainage Plan shows 1) existing and proposed elevations indicated by spot elevations and contours at 1'-0" intervals; 2) proposed buildings, parking areas, gravel drives, and material storage areas; and 3) proposed drainage features.

The proposed improvements are located at the southwest quadrant of the intersection of Los Angeles Drive N.E. and Louisiana Boulevard, N.E. The site is more particularly described as Lots 15-18, Block 11, Tract A, Unit A, North Albuquerque Acres. The site is approximately 3.22 acres in size and will be developed as a landscaping and nursery business.

This site does not lie within a flood hazard zone. No offsite flows enter the property.

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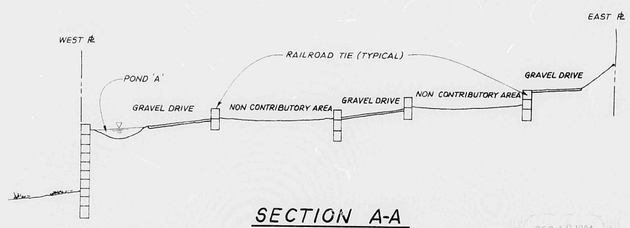
As shown by the plan, all storm runoff will be directed into two (2) ponding areas. A unit discharge rate of 0.5 CFS per acre was assumed, which yields a total discharge rate of approximately 1.6 CFS for the developed site. Both ponds will drain into Palomas Avenue, N.E. near the southwest corner of the site. The concept used for this plan was to use storm water for irrigation. Non-contributory areas (100% ponded) were created by holding water in the plant storage areas. This concept, along with the minimal percentage of impervious area, yields a developed peak discharge of 3.8 CFS compared to a existing discharge of 5.4 CFS.

Erosion will not result due to this development as all exposed soil will be covered. Temporary erosion control measures during the construction phase will consist of a ditch-dike system placed around the perimeter of the site.



SECTION A-A
NO SCALE

SEP 19 1984
HYDROLOGY SECTION

LEGAL DESCRIPTION: NOW COMPRISING OF LOT A, BLOCK 11, TRACT A, UNIT A, NORTH ALBUQUERQUE ACRES

BENCHMARK: ACS BRASS CAP 1-C19 STAMPED "1-C19 N.A.A. LOT 32, BLK 16" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. ELEV = 5318.95

NON CONTRIBUTORY AREA (100% PONDED)
BASIN BOUNDARY
+170 NEW SPOT ELEVATION
+08.0 EXISTING SPOT ELEVATION
CONCRETE RUNDOWN
14 NEW CONTOUR
EXISTING CONTOUR
NEW 8' CHAIN LINK FENCE
NEW BUILDING

NO.	REVISIONS	BY	DATE

P.E. 9/19/84

LOEPER NURSERY
CONCEPTUAL GRADING & DRAINAGE PLAN

ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD N.E. SUITE 204
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PHONE (505) 255-1625

DESIGNED BY D.L. DATE AUGUST 1984 SHEET NO 4
DRAWN BY R.D. F.B.
CHECKED BY JOB NO. 5326-01 OF 5 SHEETS
APPROVED BY

D-18/D015

THIS PLAN SHOT TWICE
ONCE ON LIGHT AND
ONCE ON DARK.

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

Rf 21 DATE 2-23-93 OF 577

CITY OF ALBUQUERQUE

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CITY CLERK RECORDER

OFFICIAL SEAL
NORBERTA SANCHEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires May 8 1995

D 24 C 20 B 16 A 12 | CITY OF ALBUQUERQUE C D