

BENCH MARK: SUSAN 544.9
CITY OF ALBUQ. BRASS CAP
N.W. CORNER OF GARCIA ST.
& SOUTHERN AVE. IN S.E.
CORNER WATER TANK.

SOUTH END OF TOP OF CURB
OF DRAIN OPENING ON MOON ST.
EL = 5431.14

SURVEYOR: D.T. MORRISON
1000 TEXAS H.E.

DRAINAGE REPORT

PURPOSE: The purpose of this report is to formulate a comprehensive study of drainage affecting the development and to show that the development does not increase drainage in a manner to contribute to existing downstream problems or to adjacent land owners.

SCOPE: This report is limited to runoff originating within the site and includes review of adjacent lands which effect runoff of this site. General engineering procedures are presented for the calculation for storm runoff, storage and disbursement.

LOCATION: The site is located on the corner of Susan Avenue and Moon Street, SE. See vicinity map and legal description on this sheet for address.

EXISTING DRAINAGE: The site is nearly level with a slope away from the existing buildings. The drainage in through a 6" pipe on the south side of the property onto Sandia Base.

ADJACENT LAND DRAINAGE: The site is bordered on three sides by commercial development or streets. Virtually no storm runoff is directed to or across this site.

DOWNSIDE FLOOD HAZARD: This site does not lie within a designated flood hazard zone as is indicated on Flood Hazard Map 350002 0036.

PROPOSED DEVELOPMENT: The proposed development will consist of a pre-engineered metal building of 1440 sf.

PROPOSED DRAINAGE PLAN: The proposed drainage plan is to continue use of the existing storm sewer drain on the south side of the property.

Present Site Development Consists of:

Office Building - 1881.51
Metal Building - 969
Carport - 1548
Carport - 840

Total Roof Area - 5898.5
Parking Area & Sidewalks - 9431.91

Landscape Area - 534
TOTAL 15788.41

Final Site Development will Consist of:

Office Building - 3972
Metal Building - 969
Carport(s) - 2388
Wood Building - 610

Total Roof Area - 7939 ft²

Parking Area & Sidewalks - 6744.41 ft²

Landscape Area - 1105 ft²

Total 15788.41

Area Tributary to 6" Storm Drain:

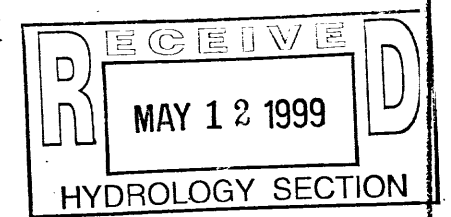
Office Building - 3972
Parking - 6744.41
Landscaping - 1105

Total 11821.41 ft²

Drainage Area: A = 0.27 acres
Length: L = 110 ft.
Elevation Difference: H = 0.72 ft.
Runoff Curve Number: CN = 95
Time of Concentration: T_c = 0.01 hr.
Rainfall - 6 hour: P₆ = 2.5 in.
Direct Runoff: (22.2°C=4) O = 2.0 in.
c.f.s. Per Inch of Cp = 45.4 0.27
Runoff: cfs/ac/in = 1.23 cfs
Peak Discharge: q = (1.23)2 = 2.46 cfs
Volume of Runoff: (O x A) - 12
2.0 x 0.27 = 12 = 0.045 ac.ft.

Conclusions:

- 1) The proposed development will not change the runoff from the property or the effect of this runoff onto the surrounding property.
- 2) Storm water will flow to the property on the base until the ponding as shown is full and then it will discharge to Susan Avenue.



LEGAL DESCRIPTION

LOT 55A BLOCK 1
JOSEPH VAN CLEAVE HOMESTEAD

ADDRESS

701 MOON ST. SE,
ALBUQUERQUE, NEW MEXICO

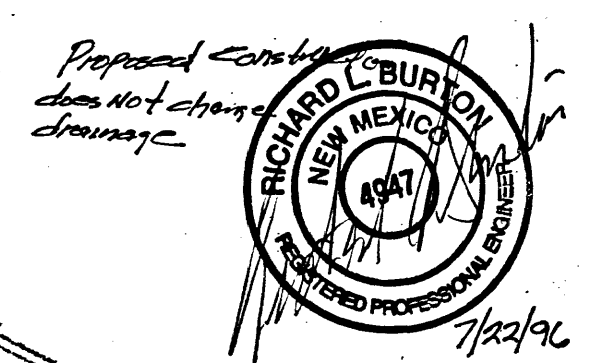
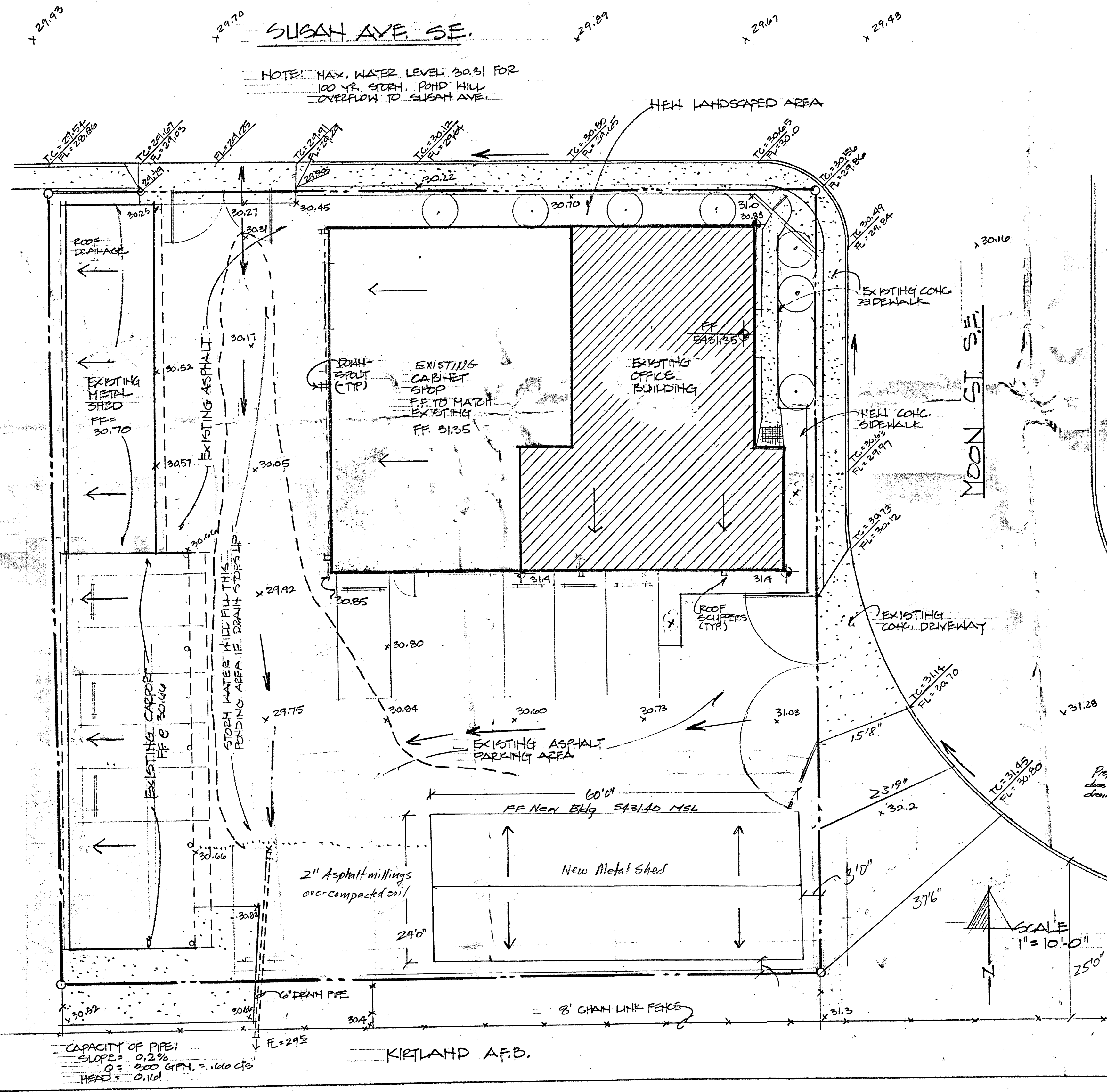
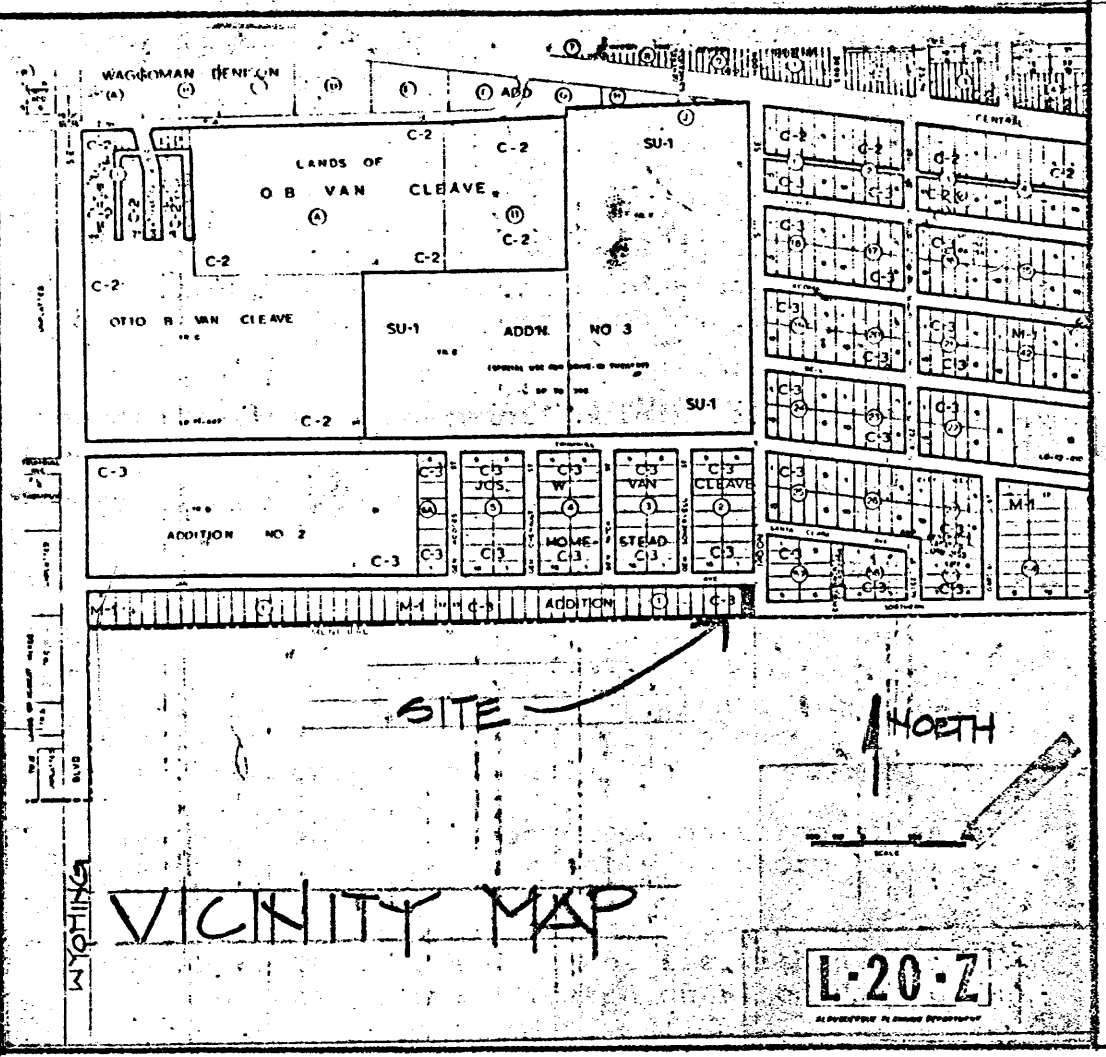
GRADING/DRAINAGE PLAN

OWNER:

DENNEY CONSTRUCTION CO.

DATE: 6 APRIL 1987

REVISION: 6 MAY 1987



TBM - SOUTHERN END OF TOP OF CURB
OF DRIVEWAY ON MOON STREET - 5431.14

LEGAL DESCRIPTION
LOT - 55-A BLOCK 1
JOSEPH VAN CLEVE HOMESTEAD

ADDRESS
701 MOON STREET SE
ALBUQUERQUE, NM

OWNER
DENNEY CONSTRUCTION CO.
701 MOON STREET SE
ALBUQUERQUE, NM

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SCOPE: THE REPORT IS LIMITED TO THE RUNOFF ORIGINATING WITHIN THE SITE AND INCLUDES A REVIEW OF THE ADJACENT LANDS WHICH AFFECT THE RUNOFF OF THIS SITE. GENERAL ENGINEERING CALCULATIONS ARE PRESENTED FOR THE CALCULATION FOR STORM RUNOFF, STORAGE AND DISBURSEMENT.

LOCATION: THE SITE IS LOCATED ON THE CORNER OF SUSAN AVENUE AND MOON STREET SE. SEE VICINITY MAP AND LEGAL DESCRIPTION ON THIS SHEET FOR THE ADDRESS.

DRAINAGE: THE SITE IS NEARLY LEVEL WITH A SLOPE AWAY FROM THE BUILDING. THE ROOF SLOPES CONTROL THE DRAINAGE DIRECTION FOR THE BUILDINGS.

ADJACENT LAND DRAINAGE: THE SITE IS BORDERED ON THREE SIDES BY COMMERCIAL DEVELOPMENT OR STREETS. THE FOURTH SIDE IS KAFB WHICH IS AT A LOWER ELEVATION THAN THE SUBJECT PROPERTY. VIRTUALLY NO STORM RUNOFF IS DIRECTED TO OR ACROSS THE SITE.

FLOOD HAZARD: THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE AS IS INDICATED ON FLOOD HAZARD MAP 350002 0036.

DRAINAGE PLAN: DRAINAGE FLOWS OFF OF THE EXISTING SITE AS FOLLOWS:

DRAINAGE TO CITY STREETS.
 OFFICE BUILDING & CABINET SHOP - 4056 SQ. FT.
 STORAGE SHED - 896 SQ. FT.
 CARPORT - 1400 SQ. FT.
 METAL BUILDING - 720 SQ. FT.
 LANDSCAPE AREA - 534 SQ. FT.
 SIDEWALKS & PAVING - 6344 SQ. FT.
 TOTAL 13,416 SQ. FT. LAND TREATMENT D 534 SQ. FT. LAND
 TREATMENT B B - 0.0123 AC, D - 0.308 AC

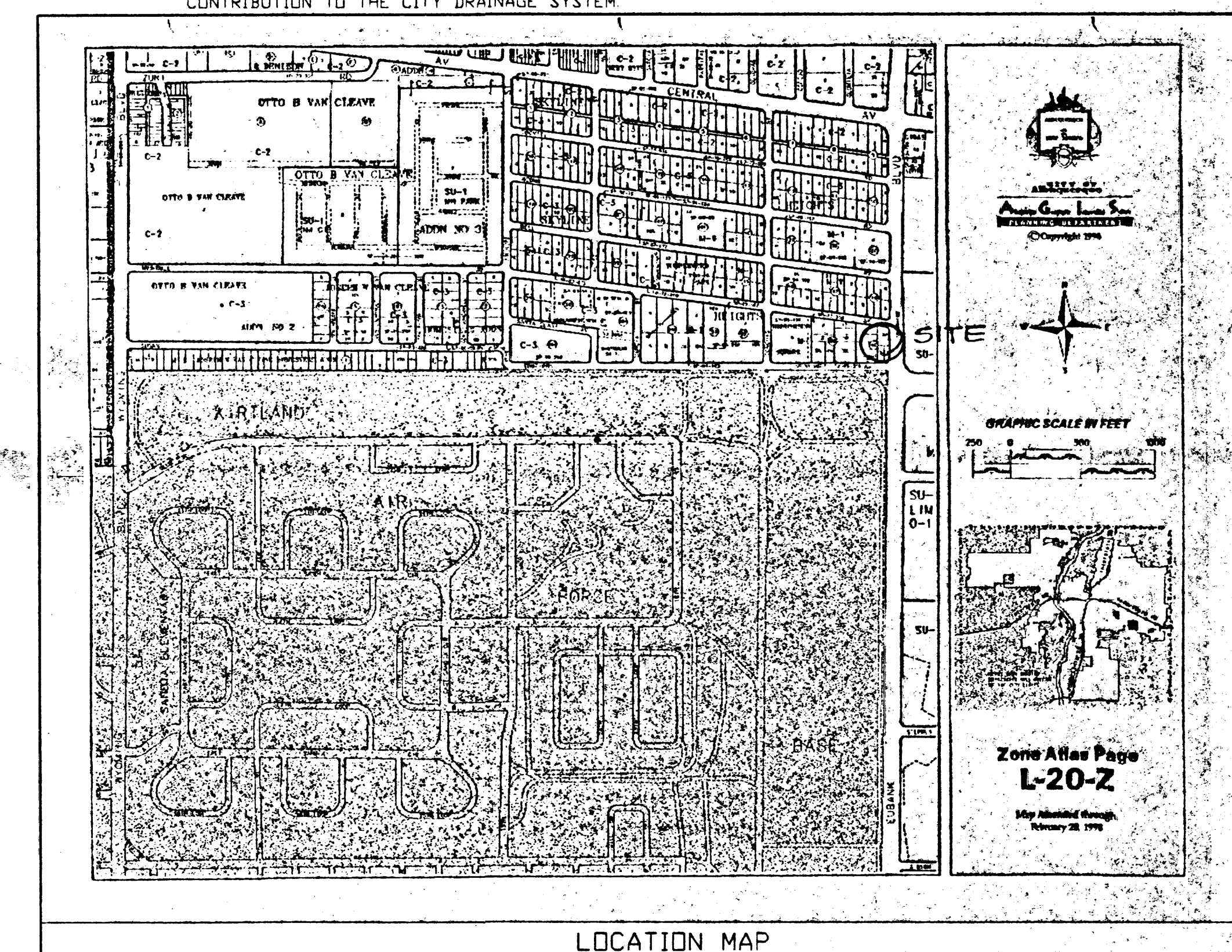
RUNOFF TO CITY STREETS.
100-YR STORM - ZONE 3 TABLE A-8 D-2.36, C-0.92
VOLUME $0.308(2.36) + 0.0123(0.92) = 0.0615$ AC. FT.
100 YR STORM ZONE 3 TABLE A-9 B-2.60, D-5.02 (CFS/AC)
PEAK DISCHARGE $0.308(5.02) + 0.0123(2.60) = 1.578$ CFS

DRAINAGE TO KAFB
METAL BUILDING - 720
PAVING & CONCRETE PAD - 1118 SQ. FT.
TOTAL 1832 SQ. FT. LAND TREATMENT D - 0.0422 AC

RUNOFF TO KAFB
VOLUME 0.0422(2.36) = 0.0083 AC. FT.
PEAK DISCHARGE 0.0422(5.02) = 0.21 CFS

CONCLUSION

IN BOTH THE 1996 PROJECT AND THE 1987 PROJECT THE OWNER WAS REPLACING PAVED AREAS WITH BUILDINGS AND WE CONCLUDED THAT THE SUBMITTAL WAS UNCHANGED BY THIS ACTIVITY. THE FINDINGS FOR BOTH THE 1987 AND 1996 PROJECTS SHOW A PIPE THAT DRAINED A LOW SPOT IN THE PARKING LOT TO KAFB PROPERTY. KAFB PERSONNEL BLOCKED THIS DRAINAGE AND REMOVED THE PIPE. THE OWNER OF THE SUBJECT PROPERTY (DENNEN CONSTRUCTION) REMOVED THE LOT TO BE ADJACENT TO THE DRIVEWAY ON SUSAN. THIS CHANGE DOES NOT MAKE A SIGNIFICANT CONTRIBUTION TO THE CITY DRAINAGE SYSTEM.



BURTON ENGINEERS, INC.
2900 VISTA GRANDE NW
ALBUQUERQUE, NM 87120
(505) 839-9365

LEGEND

LEGEND
DRAINAGE DIRECTION
SPOT ELEVATION
PROPERTY LINE
PROPERTY CORNER

ENGINEER'S CERTIFICATION
I, RICHARD BURTON, BEING A REGISTERED PROFESSIONAL ENGINEER IN
THE STATE OF NEW MEXICO DO HEREBY CERTIFY THAT THE AS-BUILT
INFORMATION SHOWN HEREON IS BASED ON ACTUAL FIELD
MEASUREMENTS BY BURTON ENGINEERS, INC. AND THAT AS OF THIS
DATE THE AS-BUILT CONDITION IS AS SHOWN HEREON.

RICHARD BURTON. NMPE# 4947

RECEIVED
MAY 12 1999
HYDROLOGY SECTION

[illegible]

TBM - SOUTHERN END OF TOP OF CURB
OF DRIVEWAY ON MOON STREET - 5431.14

LEGAL DESCRIPTION
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JOSEPH VAN CLEVE HOMESTEAD

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SIDEWALKS & PAVING - 6344
TOTAL 13,416 SQ. FT. LAND TR

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TREATMENT B B - 0.0123 AC, D - 0.308 AC

RUNOFF TO CITY STREETS

100-YR STORM - ZONE 3 TABLE A-8 D-2.36, C-0.92

VOLUME $0.308(2.36) + 0.0123(0.92) = 0.0615$ AC. FT.

PEAK DISCHARGE $0.308(5.02) + 0.0123(2.60) = 1.578$ CFS

PEAK DISCHARGE $0.308(5.02) + 0.0123(2.80) = 1.578$ CFS

DRAINAGE TO KAFB

METAL BUILDING - 720
PAVING & CONCRETE PAD

TOTAL 1832 SQ. FT. LAND TREATMENT D - 0.0422 AC

RUNDEF TO KAER

RUNOFF TO RAB
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PEAK DISCHARGE 0.0422(5.02) = 0.21 CFS

501 THE POWER 11-2

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383.DWG

BURTON ENGINEERS, INC.
2900 VISTA GRANDE NW
ALBUQUERQUE, NM 87120
(505) 839-9365

LEGEND

DRAINAGE DIRECTION
 SPOT ELEVATION
 PROPERTY LINE
 PROPERTY CORNER

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RICHARD BURTON, NMPE# 4947

DATE 5/12/99

RECEIVED
MAY 12 1999
HYDROLOGY SECTION

[illegible]

BENCHMARK:
SUSAN - 5444.9
CITY OF ALBUQUERQUE BRASS CAP
N.W. CORNER OF GARCIA STREET AND
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OF WATER TANK

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OWNER
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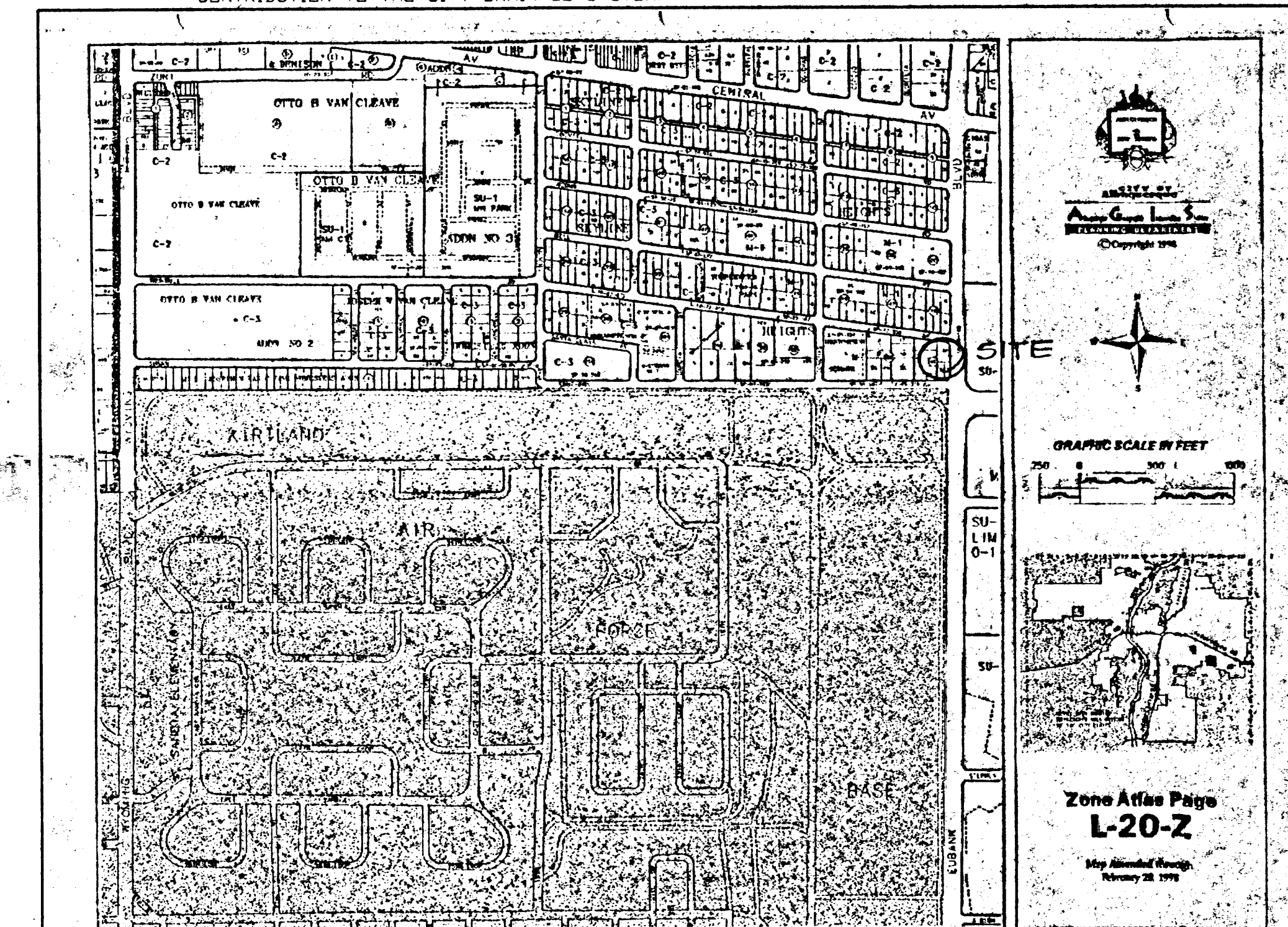
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DRAINAGE TO KAFB:
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RUNOFF TO KAFB:
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CONCLUSION

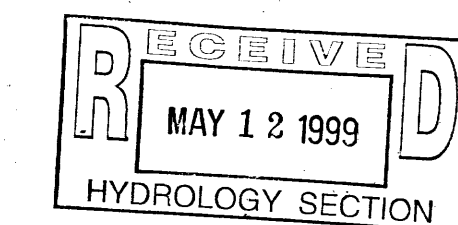
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LOCATION MAP

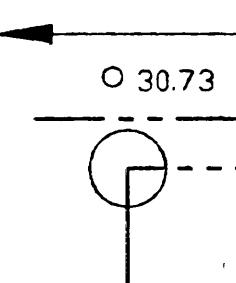
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2900 VISTA GRANDE NW
ALBUQUERQUE, NM 87120
(505) 839-9365



LEGEND

DRAINAGE DIRECTION
SPOT ELEVATION
PROPERTY LINE
PROPERTY CORNER



ENGINEER'S CERTIFICATION
I, RICHARD BURTON, BEING A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO DO HEREBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN HEREON IS BASED ON ACTUAL FIELD MEASUREMENTS BY BURTON ENGINEERS, INC. AND THAT AS OF THIS DATE THE AS-BUILT CONDITION IS AS SHOWN HEREON.
Richard Burton 5/12/99
RICHARD BURTON, NMPE# 4947 DATE

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
				APPROVALS	ENGINEER	DATE	*****
				DRC Chairman			APPROVED FOR CONSTRUCTION
				Transportation			
				Water/Wastewater			
				Hydrology			
				Parks			
				Constr. Mngmt.			
				City Project No.			SHEET C-2

BENCH MARK: SUSAN 544.9 M.S.L.

CITY OF ALBUQ. BRASS CAP
N.W. CORNER OF GARCIA ST.
& SOUTHERN AVE. IN S.E.
CORNER WATER TANK.

SOUTH END OF TOP OF CURB
OF DRIVE OPENING ON MOON ST.
EL = 5431.14

SURVEYOR: D.T. MORRISON

1000 TEXAS N.E.

DRAINAGE REPORT

PURPOSE: The purpose of this report is to formulate a comprehensive study of drainage affecting the development and to show that the development does not increase drainage in a manner to contribute to existing downstream problems or to adjacent land owners.

SCOPE: This report is limited to runoff originating within the site and includes review of adjacent lands which effect runoff of this site. General engineering procedures are presented for the calculation for storm runoff, storage and disbursement.

LOCATION: The site is located on the corner of Susan Avenue and Moon Street, S.E. See vicinity map and legal description on this sheet for address.

EXISTING DRAINAGE: The site is nearly level with a slope away from the existing buildings. The drainage is through a 6" pipe on the south side of the property onto Sandia Base.

ADJACENT LAND DRAINAGE: The site is bordered on three sides by commercial development or streets. Virtually no storm runoff is directed to or across this site.

DOWNSTREAM FLOOD HAZARD: This site does not lie within a designated flood hazard zone as is indicated on Flood Hazard Map 350002 0036.

PROPOSED DEVELOPMENT: The proposed development will consist of an addition to an existing building of 2040 sf, and development of a landscape area north of the new addition.

PROPOSED DRAINAGE PLAN: The proposed drainage plan is to continue use of the existing storm sewer drain on the south side of the property.

Present Site Development Consists of:

Office Building	1831.51
Metal Building	969
Carport	840
Wood Building	610
Total Roof Area	5898.5
Parking Area & Sidewalks	9431.91

Landscape Area - 534

TOTAL 15788.41

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Landscape Area - 1105 ft²

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Area Tributary to 6" Storm Drain:

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Landscaping	1105

Total 11821.41 ft²

Drainage Area: A = 0.27 acres

Length: L = 110 ft.

Elevation Difference: H = 0.72 ft.

Runoff Curve Number: CN = 95

Time of Concentration: T_c = 0.01 hr.

Rainfall - 6 Hour: P₆ = 2.5 in.

Direct Runoff: (22.2 C=41) Q = 2.0 in.

c.f.s. Per Inch of Q_p = 45.4 0.27

Runoff: cfs/ac/in = 1.23 cfs

Peak Discharge: Q = (1.23)2 = 2.46 cfs

Volume of Runoff: (Q x T) = 12

2.0 x 0.27 = 12 = 0.045 ac.ft.

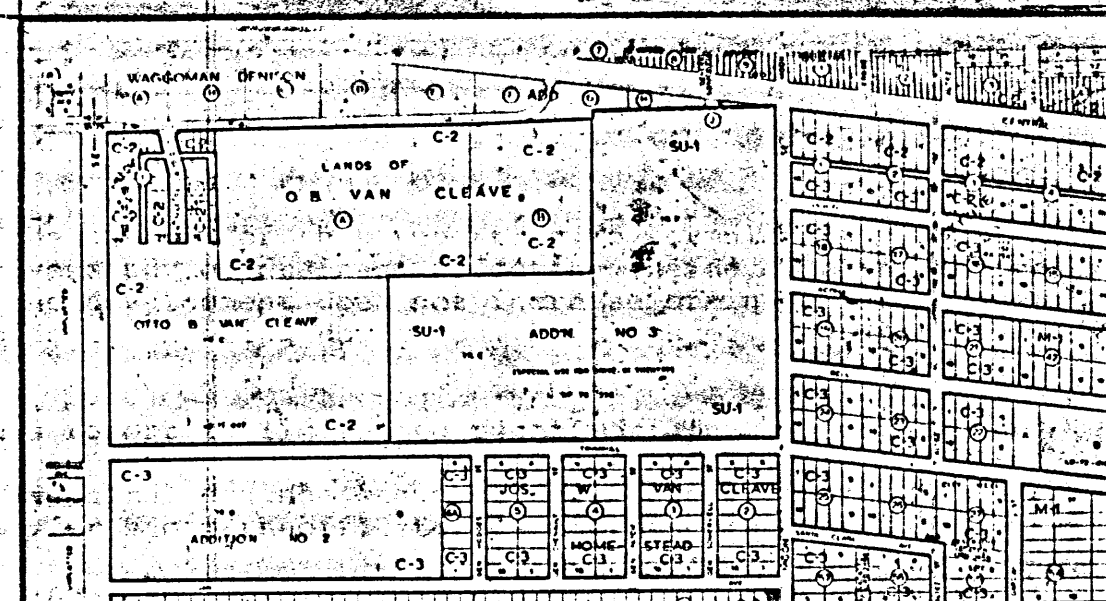
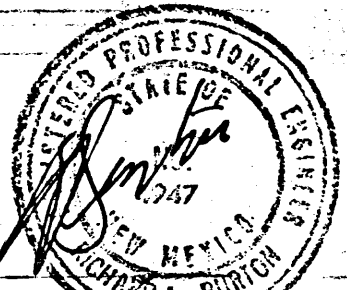
Conclusions:

- 1) The proposed development will not change the runoff from the property or the effect of this runoff onto the surrounding property.
- 2) Storm water will flow to the property on the base until the ponding as shown is full and then it will discharge to Susan Avenue.

Proposed construction does
Not change drainage



SCALE
1" = 10'-0"



VICINITY MAP

L-20-2

LEGAL DESCRIPTION

LOT 55, BLOCK 1
JOSEPH VAN CLEAVE HOMESTEAD

ADDRESS

701 MOON ST. SE.
ALBUQUERQUE, NEW MEXICO

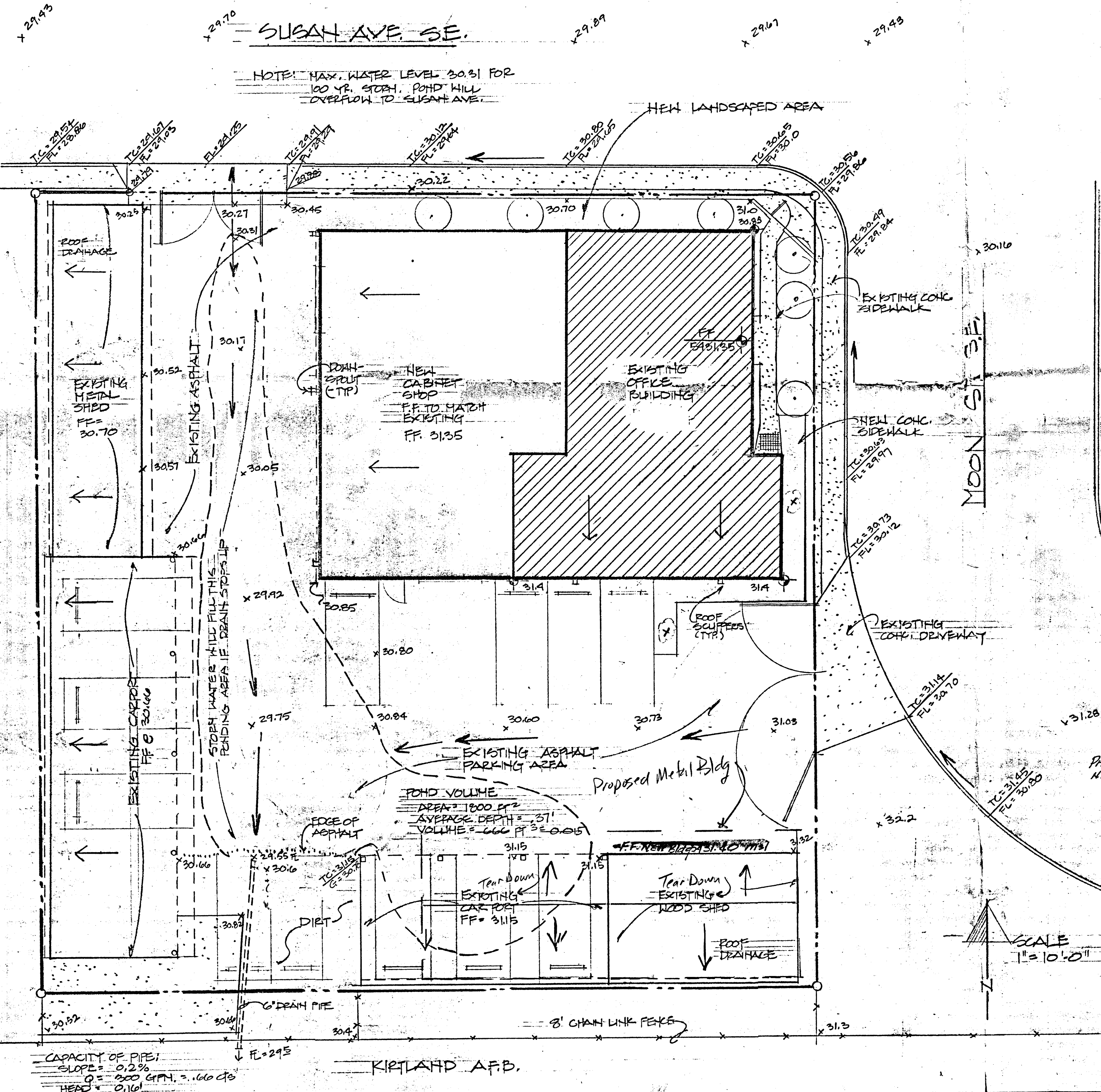
GRADING/DRAINAGE PLAN

OWNER:

DENNEY CONSTRUCTION CO.

DATE: 6 APRIL 1987

REVISION: 6 MAY 1987



CAPACITY OF PIPE:
SLOPE = 0.23%
Q = 600 GPM. = .60 cfs
HEAD = 0.10'

KIRTLAND A.F.B.

BENCH MARK: SUSAN 544.9
CITY OF ALBUQ, BRASS CAP
N.W. CORNER OF GARCIA ST.
& SOUTHERN AVE. IN S.E.
CORNER WATER TANK.

SOUTH END OF TOP OF CURB
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EL = 5431.14

SURVEYOR: D.T. MORRISON
1080 TEXAS H.E.

SUSAN AVE. SE.

NOTE: MAX. WATER LEVEL 30.31 FOR
100 YR. STORM. ROAD WILL
OVERFLOW TO SUSAN AVE.

NEW LANDSCAPED AREA

MOON ST. S.E.

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Peak Discharge: Q = 1.23 cfs

Volume of Runoff: (0.0 x A) = 12

2.0 x 0.27 = 12 = 0.045 ac-ft

Conclusions:

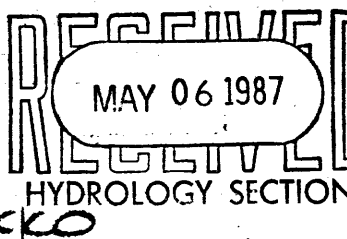
- 1) The proposed development will not change the runoff from the property or the effect of this runoff onto the surrounding property.
- 2) Storm water will flow to the property on the base until the ponding as shown is full and then it will discharge to Susan Avenue.

LEGAL DESCRIPTION

LOT 55-A BLOCK 1
JOSEPH VAN CLEAVE HOMESTEAD

ADDRESS

701 MOON ST. SE.
ALBUQUERQUE, NEW MEXICO



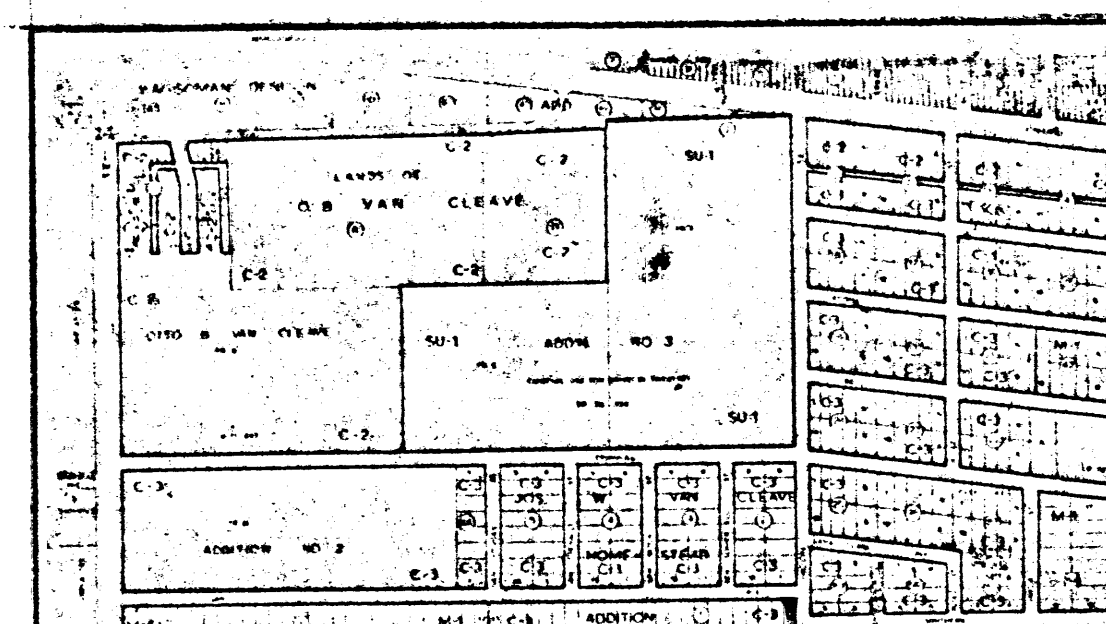
GRADING/DRAINAGE PLAN

OWNER:

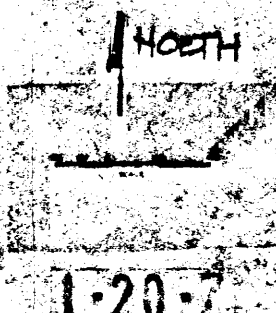
DENNEY CONSTRUCTION CO.

DATE: 6 APRIL 1987

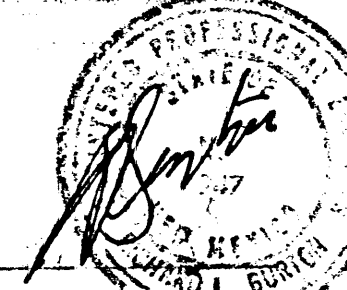
REVISION: 6 MAY 1987



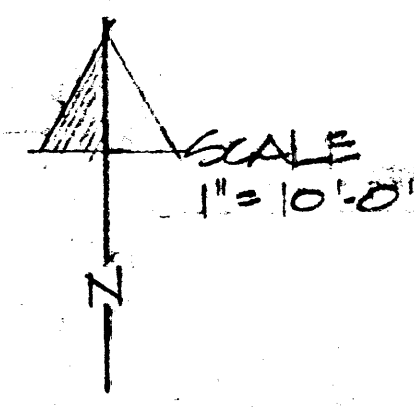
VICINITY MAP



1-20-2



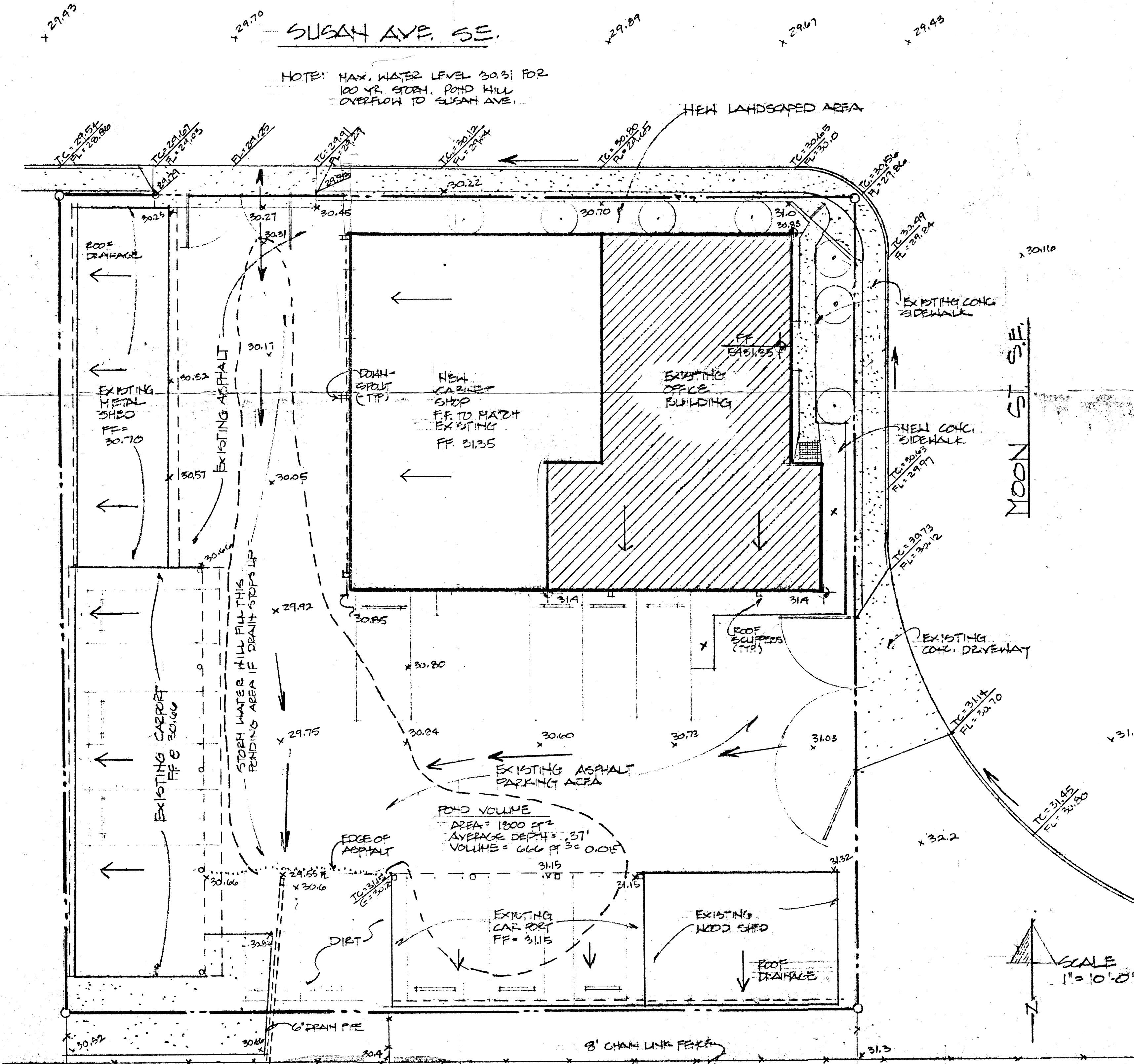
4-9-87



SCALE
1" = 10'-0"



4-9-87



CAPACITY OF PIPE:
SLOPE = 0.2%
Q = 800 GPM @ 1.66 CFS
HEAD = 0.10'

see letter dated KIRTLAND AFB.
4/30/87 pipe not changed
from drawing date 4/19/87