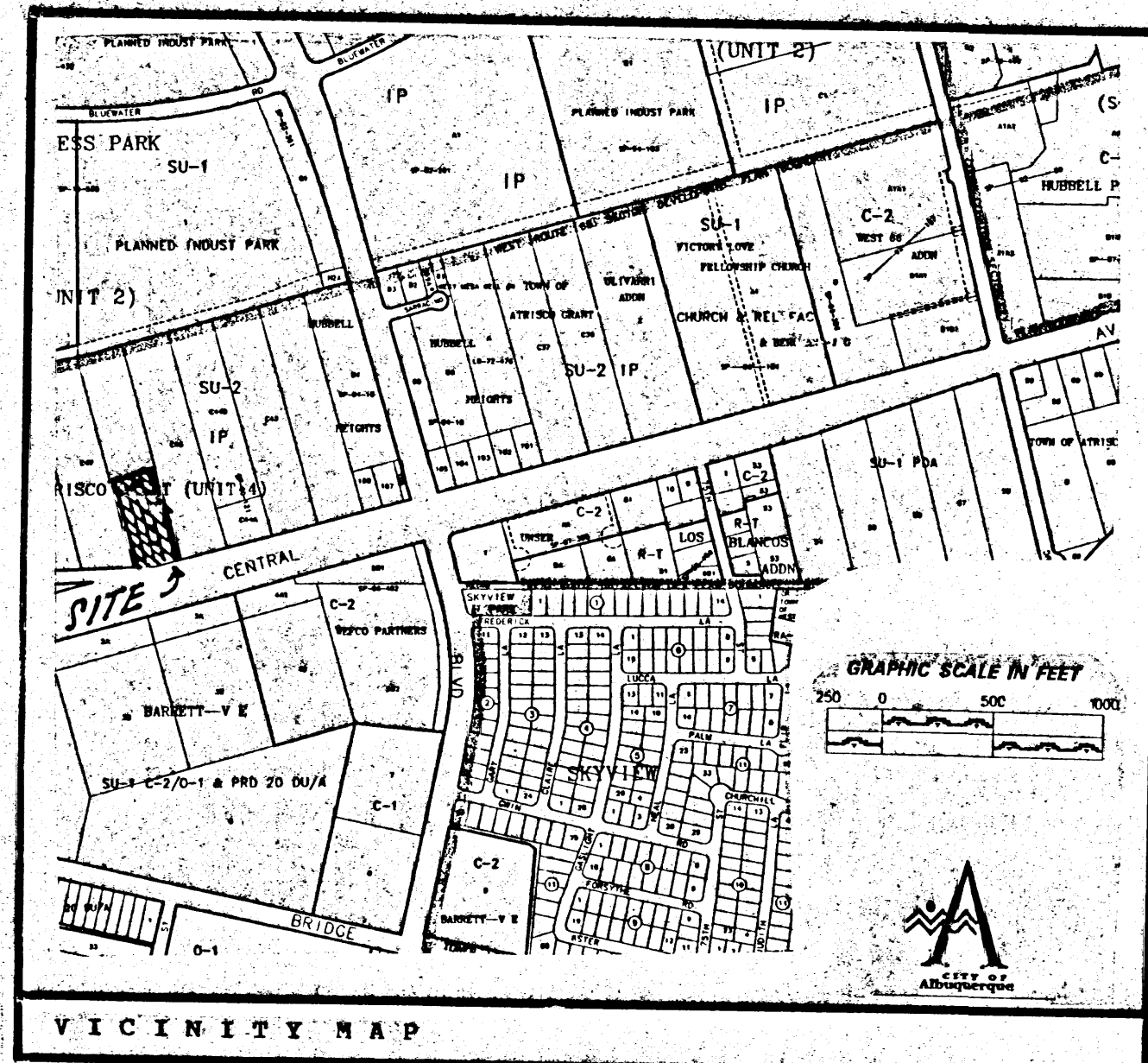
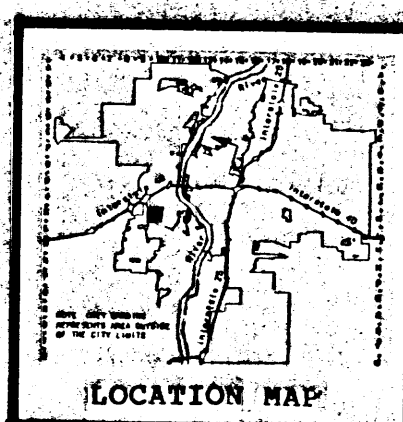




K-10-2



LEGEND:

- EXISTING CONTOUR = --- 12 ---
- EXISTING SPOT ELEVATION = --- 12.8 ---
- PROPOSED CONTOUR = --- 12.0 ---
- PROPOSED SPOT ELEVATION = --- 12.50 ---
- EXISTING CHAIN LINK FENCE = --- 12.50 ---

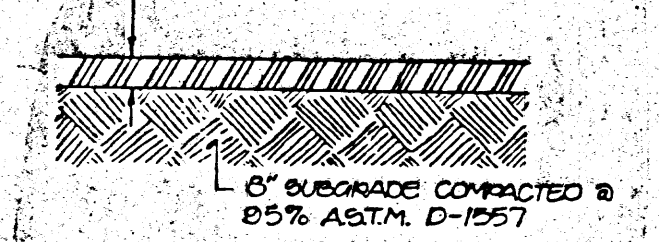
EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:
2. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERM, DITCH, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
3. ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
4. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

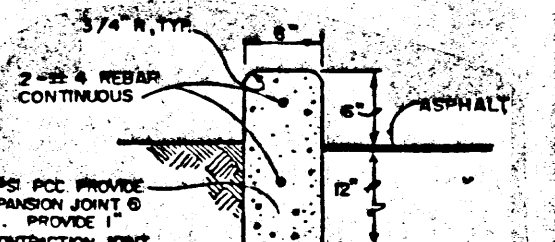
CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 60-1000 FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

5" ASPHALTIC CONCRETE SURFACE COURSE, 1000 # STABILITY



TYPICAL PAVEMENT SECTION



HEADER CURB DETAIL

GENERAL NOTES:

1. TOPOGRAPHY SURVEY INFORMATION PROVIDED BY TORRES SURVEYING COMPANY, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.
2. NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.

LEGAL DESCRIPTION:

SOUTHERLY 2.0 (+) ACRES OF TRACT C-46, UNIT NO. FOUR (4), TRACTS ALLOTTED FROM TOWN OF ATRISCO GRANT, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE:

ACS STATION "7-K10", 1989, LOCATED AT THE INTERSECTION OF CENTRAL AVENUE AND UNSER BLVD. N.W., IN THE N.W. QUADRANT; ELEVATION = 5095.142, (S.L.D. 1929).

Zone	Intensity	100-YR	10-YR
1	4.70	[1.84, 3.14]	
2	5.05	[2.04, 3.41]	
3	5.38	[2.21, 3.65]	
4	5.61	[2.34, 3.83]	

Zone	Treatment			
	A	B	C	D
1	1.29	2.03	2.87	4.37
	[0.00, 0.24]	[0.00, 0.78]	[0.47, 1.48]	[1.89, 2.89]
2	1.56	2.28	3.14	4.70
	[0.00, 0.38]	[0.08, 0.95]	[0.00, 1.71]	[1.86, 3.14]
3	1.87	2.60	3.45	5.02
	[0.00, 0.58]	[0.21, 1.19]	[0.78, 2.00]	[2.04, 3.39]
4	2.20	2.92	3.73	5.25
	[0.05, 0.67]	[0.38, 1.45]	[1.00, 2.28]	[2.17, 3.57]

A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and in FIGURE A-1.

Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and East, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of East, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

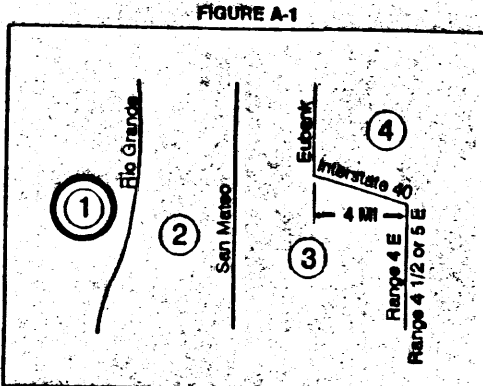


TABLE A-4. LAND TREATMENTS

Treatment	Land Conditions
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grazing, groundcover and infiltration capacity. Cereals. Unfertilized.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grazing, groundcover and infiltration capacity. Cereals. Unfertilized.
C	Soil compacted by human activity. Minimal vegetation. Unfertilized. Parking, roads, trails. Most vacant lots. Gravel or rock on plastic (sewer landfills). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and rock.

DPH SECTION 22.2 - HYDROLOGY
January, 1993 Page 4.4

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT PROPERTY IS LOCATED ON THE NORTH SIDE OF WEST CENTRAL AVENUE AND APPROXIMATELY 1,000.0' WEST OF UNSER BLVD. N.W., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE SUBJECT SITE, 1.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 2.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES, 3.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, 4.) IS BEING ALLOWED TO FREE DISCHARGE FLOWS INTO CENTRAL AVENUE RIGHT-OF-WAY, 4.) DOES NOT LIE WITHIN A DESIGNATED FLOODPLAIN (RE: F.E.M.A. PANEL 528 OF 825).

*** NOTE: ANY ADDITIONAL DEVELOPMENT WITHIN THE SUBJECT SITE WILL REQUIRE PONDING OF FLOWS GENERATED FROM SAID DEVELOPMENT.

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 1

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.20 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N)+(5*N))

where N = units/acre

N = 0.00, ok < 6

N = 0.00

Therefore Percent Treatment D = 0.00%

(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	0.00	0.00
Treatment B	0.00	0.00
Treatment C	4.91	4.60
Treatment D	0.00	0.31
Total (acres) =	4.91	4.91

Excess Precipitation (E): (Table A-8)

	100 yr	10 yr	2 yr
Treatment A	0.44	0.08	0.00
Treatment B	0.67	0.22	0.01
Treatment C	0.99	0.44	0.12
Treatment D	1.97	1.24	0.72

Weighted E:

	100 year Existing E*A	100 year Proposed E*A	10 year Existing E*A	10 year Proposed E*A
Treatment A	0.00	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00	0.00
Treatment C	4.86	4.55	2.16	2.16
Treatment D	0.00	0.61	0.00	0.00
Total	4.86	5.16	2.16	2.16

10 year Proposed E*A	2 year Existing E*A	2 year Proposed E*A
0.00	0.00	0.00
0.00	0.00	0.00
2.02	0.59	0.55
0.38	0.00	0.22
2.41	0.59	0.78

10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
0.00	0.00	0.00
0.00	0.00	0.00
6.85	2.31	2.16
0.90	0.00	0.52
7.75	2.31	2.69

10 year Proposed CTA	2 year Existing CTA	2 year Proposed CTA
0.00	0.00	0.00
0.00	0.00	0.00
6.79	2.35	2.20
0.90	0.00	0.52
7.69	2.35	2.73

10 year Proposed	2 year Existing	2 year Proposed
0.49	0.12	0.16
0.04	0.01	0.01

10 year Proposed	2 year Existing	2 year Proposed
0.20	0.05	0.06
8.742	2.139	2.814

Weighted E = Total E*A / Total Area = 4.91

	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed
Weighted E (inches) =	0.99	1.05	0.44	0.44
Weighted E (feet) =	0.08	0.09	0.04	0.04

Volume = Weighted E * Watershed Area:

	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed
Volume (acre-feet) =	0.41	0.43	0.18	0.18
Volume (cubic feet) =	17,645	18,749	7,842	7,842

Peak Discharge (cfs/acre) = Q(p): (Table A-9)

	Q(p) 100 year	Q(p) 10 year	Q(p) 2 year
Treatment A	1.29	0.24	0.00
Treatment B	2.03	0.76	0.03
Treatment C	2.87	1.49	0.47
Treatment D	4.37	2.89	1.69

Total Q(p), cfs:

	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A
Treatment A	0.00	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00	0.00
Treatment C	14.09	13.20	7.32	7.32
Treatment D	0.00	1.35	0.00	0.00
Total Q (cfs) =	14.09	14.56	7.32	7.32

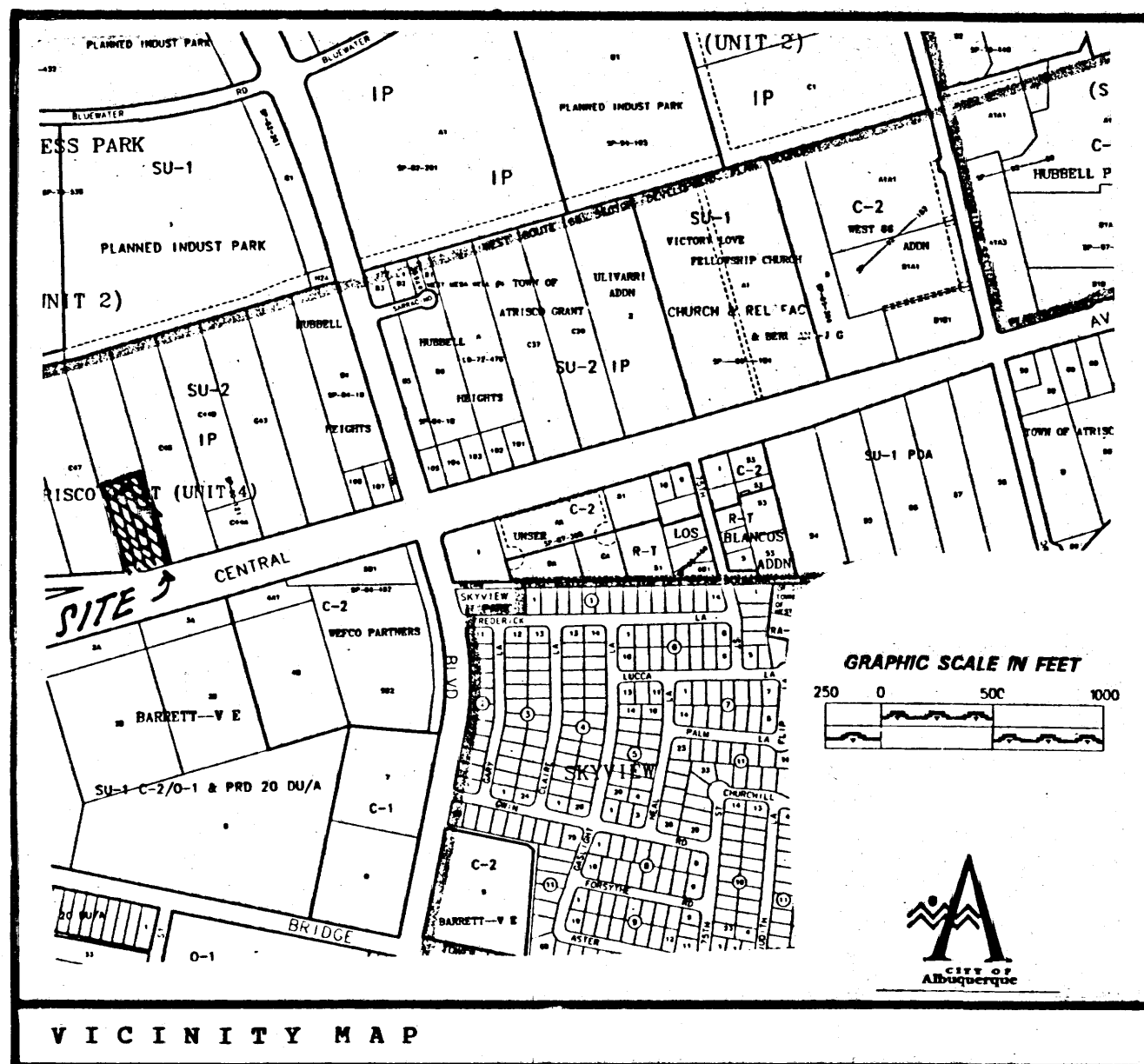
RATIONAL METHOD:

Coefficient C: (Table A-11)

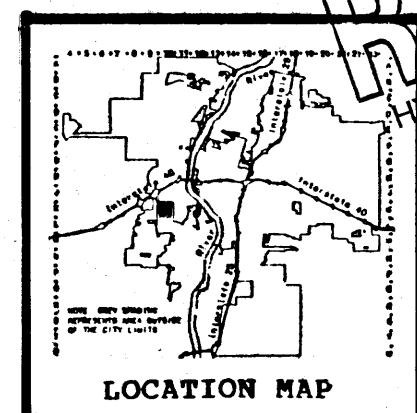
	100 year	10 year	2 year
Treatment A	0.27	0.08	0.00
Treatment B	0.43	0.24	0.02
Treatment C	0.61	0.47	0.26
Treatment D	0.93	0.92	0.92

Q = CIA (cfs):

	100 year Existing CIA	100 year Proposed CIA	10 year Existing CIA
Treatment A	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00
Treatment C	14.08	13.19	7.25
Treatment D	0.00	1.35	0.00
Total Q (cfs) =	14.08	14.54	7.25



K-10-Z



LEGEND:

- EXISTING CONTOUR = ---1/2---
- EXISTING SPOT ELEVATION = ---1/2E---
- PROPOSED CONTOUR = ---0.0---
- PROPOSED SPOT ELEVATION = ---0.0---
- EXISTING CHAIN LINK FENCE = ---X---

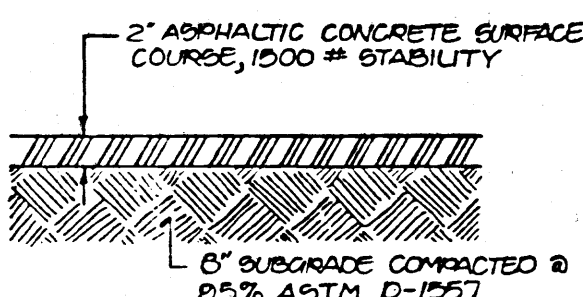
EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

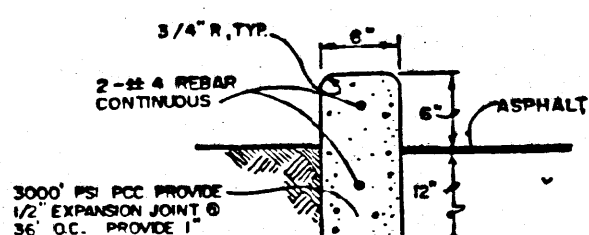
- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DICES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 1-800-155-0000 FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.



TYPICAL PAVEMENT SECTION



HEADER CURB DETAIL

GENERAL NOTES:

- TOPOGRAPHY SURVEY INFORMATION PROVIDED BY TORRES SURVEYING COMPANY, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.
- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.

LEGAL DESCRIPTION:

SOUTHERLY 2.0 (±) ACRES OF TRACT C-46, UNIT NO. FOUR (4), TRACTS ALLOTTED FROM TOWN OF ATRISCO GRANT, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE:

ACS STATION "7-K10", 1989, LOCATED AT THE INTERSECTION OF CENTRAL AVENUE AND UNSER BLVD. N.W., IN THE N.W. QUADRANT; ELEVATION = 5095.142, (S.L.D. 1929).

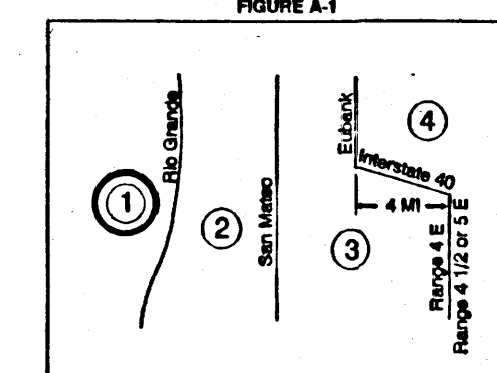
Zone	Intensity	100-YR
1	4.70	[1.84, 3.14]
2	5.05	[2.04, 3.41]
3	5.38	[2.21, 3.65]
4	5.81	[2.34, 3.83]

Zone	Treatment			
	A	B	C	D
1	1.29	2.03	2.87	4.37
	[0.00, 0.24]	[0.00, 0.76]	[0.47, 1.49]	[1.69, 2.89]
2	1.56	2.28	3.14	4.70
	[0.00, 0.38]	[0.00, 0.95]	[0.60, 1.71]	[1.86, 3.14]
3	1.87	2.50	3.45	5.02
	[0.00, 0.58]	[0.21, 1.19]	[0.78, 2.00]	[2.04, 3.39]
4	2.20	2.92	3.73	5.25
	[0.05, 0.87]	[0.38, 1.45]	[1.00, 2.26]	[2.17, 3.57]

A-1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40, and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40



DPM SECTION 22.2 - HYDROLOGY
January, 1993 Page A-4

TABLE A-4. LAND TREATMENTS

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundwater and infiltration capacity. Croplands, undisturbed.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the area percentages in TABLE A-5 may be employed.

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT PROPERTY IS LOCATED ON THE NORTH SIDE OF WEST CENTRAL AVENUE AND APPROXIMATELY 1,000.0' WEST OF UNSER BLVD. N.W., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE SUBJECT SITE, 1.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 2.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES, 3.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, 4.) IS BEING ALLOWED TO FREE DISCHARGE FLOWS INTO CENTRAL AVENUE RIGHT-OF-WAY, 4.) DOES NOT LIE WITHIN A DESIGNATED FLOODPLAIN (RE: F.E.M.A. PANEL 528 OF 825).

*** NOTE: ANY ADDITIONAL DEVELOPMENT WITHIN THE SUBJECT SITE WILL REQUIRE PONDING OF FLOWS GENERATED FROM SAID DEVELOPMENT.

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 1

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.20 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 \times \text{SQR}((N \times N) + (5 \times N))$

where N = units/acre

N = 0.00, ok < 6

Therefore Percent Treatment D = 0.00%

(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	0.00	0.00
Treatment B	0.00	0.00
Treatment C	4.91	4.60
Treatment D	0.00	0.31
Total (acres) =	4.91	4.91

Excess Precipitation (E): (Table A-6)

	100 yr	10 yr	2 yr
Treatment A	0.44	0.08	0.00
Treatment B	0.67	0.22	0.01
Treatment C	0.99	0.44	0.12
Treatment D	1.97	1.24	0.72

Weighted E:	100 year Existing E*A	100 year Proposed E*A	10 year Existing E*A
Treatment A	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00
Treatment C	4.86	4.55	2.16
Treatment D	0.00	0.61	0.00
Total	4.86	5.16	2.16

10 year Proposed E*A	2 year Existing E*A	2 year Proposed E*A
0.00	0.00	0.00
0.00	0.00	0.00
2.02	0.59	0.55
0.38	0.00	0.22
2.41	0.59	0.78

10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
0.00	0.00	0.00
0.00	0.00	0.00
6.85	2.31	2.16
0.90	0.00	0.52
7.75	2.31	2.69

10 year Proposed CIA	2 year Existing CIA	2 year Proposed CIA
0.00	0.00	0.00
0.00	0.00	0.00
6.79	2.35	2.20
0.90	0.00	0.52
7.68	2.35	2.73

10 year Proposed	2 year Existing	2 year Proposed
0.49	0.12	0.16
0.04	0.01	0.01

10 year Proposed	2 year Existing	2 year Proposed
0.20	0.05	0.06
8.742	2.139	2.814

Weighted E = Total E*A/Total Area
Total Area = 4.91

	100 year Existing	100 year Proposed	10 year Existing
Weighted E (inches) =	0.99	1.05	0.44
Weighted E (feet) =	0.08	0.09	0.04

Volume = Weighted E * Watershed Area:

	100 year Existing	100 year Proposed	10 year Existing
Volume (acre-feet) =	0.41	0.43	0.18
Volume (cubic feet) =	17,645	18,748	7,842

Peak Discharge (cfs/acre) = Q(p): (Table A-9)	Q(p) 100 year	Q(p) 10 year	Q(p) 2 year
Treatment A	1.29	0.24	0.00
Treatment B	2.03	0.76	0.03
Treatment C	2.87	1.49	0.47
Treatment D	4.37	2.89	1.69

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A
Treatment A	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00
Treatment C	14.09	13.20	7.32
Treatment D	0.00	1.35	0.00
Total Q (cfs) =	14.09	14.56	7.32

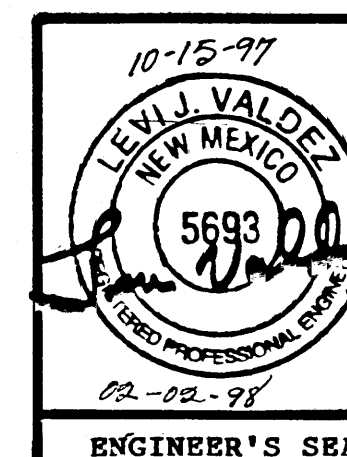
RATIONAL METHOD:

Coefficient C: (Table A-11)	100 year	10 year	2 year
Treatment A	0.27	0.08	0.00
Treatment B	0.43	0.24	0.02
Treatment C	0.61	0.47	0.26
Treatment D	0.93	0.92	0.92

Q = CIA (cfs):	100 year Existing CIA	100 year Proposed CIA	10 year Existing CIA
Treatment A	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00
Treatment C	14.08	13.19	7.25
Treatment D	0.00	1.36	0.00
Total Q (cfs) =	14.08	14.54	7.25

WEST CENTRAL AVENUE

NOTE: SITE DEVELOPMENT PLAN SHOWN HEREON PREPARED BY MARQUEE SURVEYING COMPANY.



A PROPOSED GRADING & DRAINAGE PLAN
FOR
MOBILE HOME SALES LOT
(8207 CENTRAL AVE. N.W.)
ALBUQUERQUE, NEW MEXICO
OCTOBER, 1997