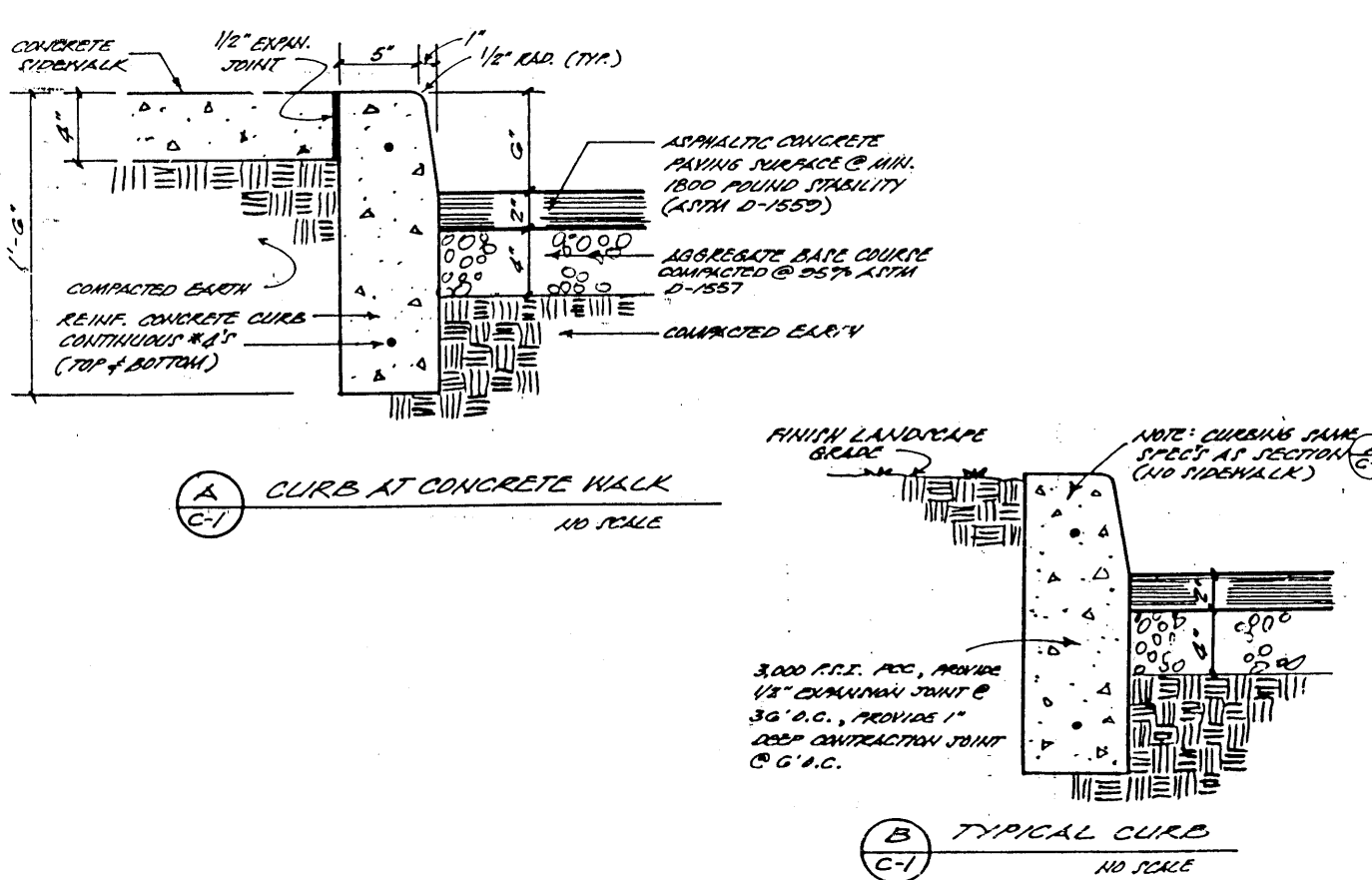
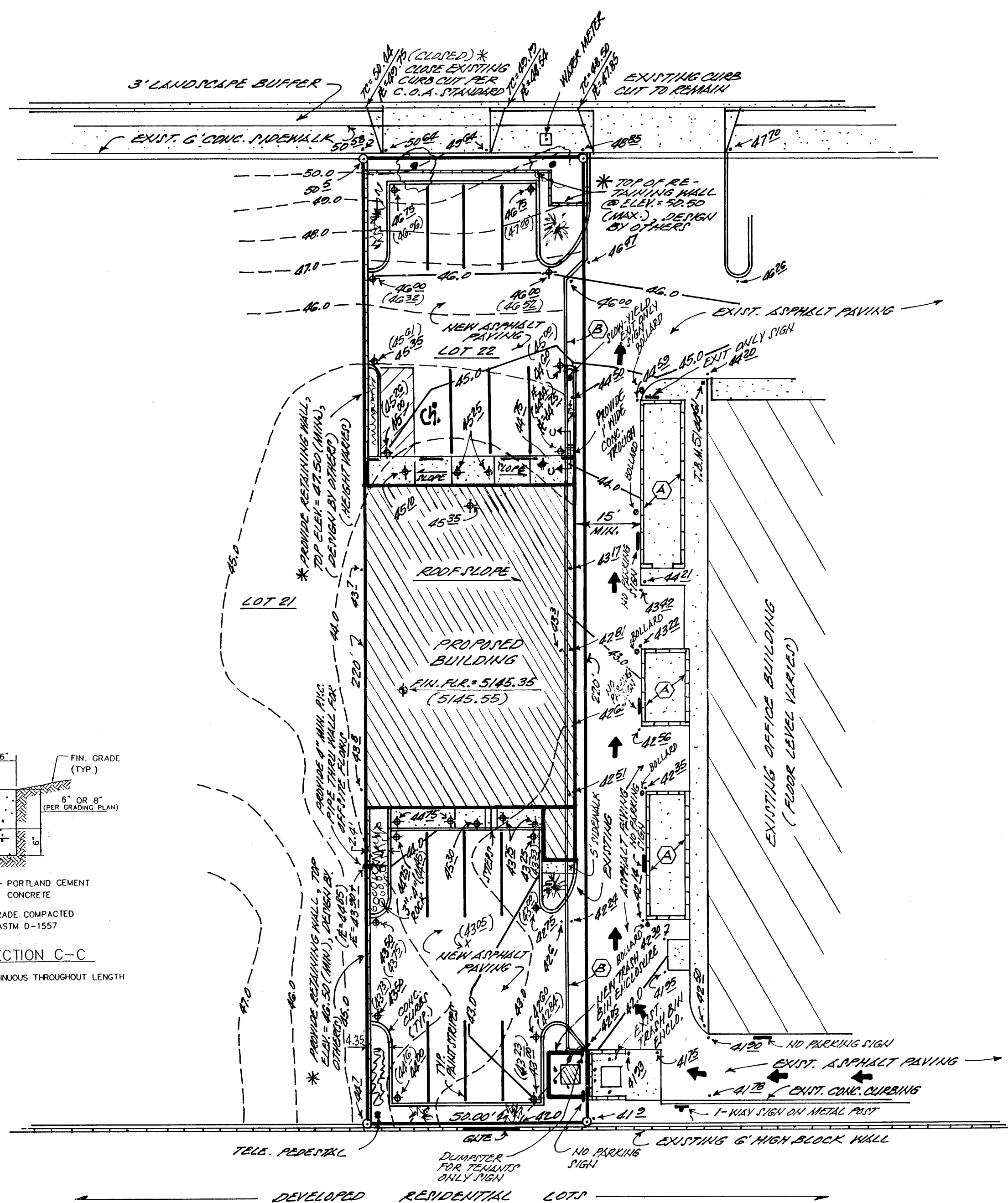


MONTAÑO ROAD N.W.



LEGEND:

TOP OF CURB ELEVATION = 70.50.44
 CURB FLOWLINE ELEVATION = 70.49.75
 EXISTING SPOT ELEVATION = 70.49.75
 EXISTING CONTOUR ELEVATION = 70.49.75
 PROPOSED SPOT ELEVATION = 70.49.75
 PROPOSED CONTOUR ELEVATION = 70.49.75
 PROPOSED OR EXISTING CONCRETE SURFACE = 70.49.75
 EXISTING FENCE LINE = 70.49.75

EROSION CONTROL MEASURES:

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

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

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OR SUB-SURFACE UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) 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 ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.

ENGINEER'S CERTIFICATION:

I, LEVI J. VALDEZ, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 5693, LICENSED AND REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT AN ACTUAL ON THE GROUND FIELD SURVEY OF THE GRADES OF THE NEW IMPROVEMENTS SHOWN HEREON VERIFY THAT SAID IMPROVEMENTS WERE CONSTRUCTED IN "SUBSTANTIAL COMPLIANCE" WITH THE APPROVED DRAINAGE PLAN FOR SAID SITE.

* NOTE: "AS-BUILT" ELEVATIONS ARE SHOWN THUS (4284)

LEVI J. VALDEZ
 NEW MEXICO
 5693
 REGISTERED PROFESSIONAL ENGINEER
 01-29-00
 11-21-01

A.1 PRECIPITATION ZONES

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

TABLE A-1. PRECIPITATION ZONES	
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

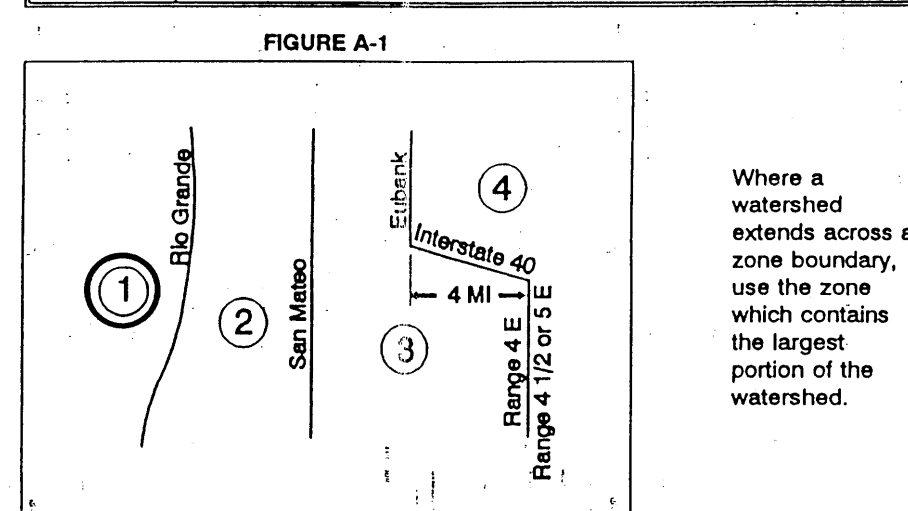


TABLE A-8. PEAK DISCHARGE (cfs/acre)				
Zone	Treatment			
	A	B	C	D
1	1.29 [0.00, 0.24]	2.63 [0.03, 0.78]	2.87 [0.47, 1.49]	4.37 [1.69, 2.89]
2	1.56 [0.00, 0.36]	2.28 [0.08, 0.95]	3.14 [0.60, 1.71]	4.70 [1.86, 3.14]
3	1.87 [0.00, 0.58]	2.60 [0.21, 1.19]	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]
4	2.20 [0.05, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.28]	5.25 [2.17, 3.57]

DRAINAGE COMMENTS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE SOUTH SIDE OF MONTAÑO ROAD, N.W., BETWEEN WHITEMAN DRIVE, N.W. AND UNSER BLVD. N.W., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "E-10-2").

THE SUBJECT SITE, 1.) IS A VACANT INFILL SITE, 2.) DOES ACCEPT MINIMAL OFF-SITE FLOWS FROM THE PROPERTY LYING IMMEDIATELY WEST OF THE SUBJECT SITE, THESE FLOWS WILL BE ALLOWED TO BE ACCEPTED AND PASSED THROUGH THE SUBJECT PROJECT SITE, 3.) DOES CONTRIBUTE TO THE OFFSITE FLOWS OF THE PROPERTY TO THE EAST OF THE SUBJECT PROJECT SITE, FLOWS FROM THE DEVELOPED PROJECT SITE ARE TO BE ALLOWED VIA RECORDED SURFACE DRAINAGE EASEMENT(S) ACROSS SAID PROPERTY, 4.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN ACCORDING TO F.E.M.A. FIRM PANEL 114 OF 825.

THE CALCULATIONS WHICH APPEAR HEREON ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT; AS SHOWN BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL INCREASE THE PEAK DISCHARGE BY APPROXIMATELY 0.33 CFS, AND THESE FLOWS WILL HAVE NO ADVERSE IMPACT TO DOWN-STREAM PROPERTIES.

DRAINAGE CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2., DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

SITE AREA: 50' X 220' = 11,000.0 SQ. FT. = 0.25 ACRE

PRECIPITATION ZONE: ONE (1), TABLE A-1

PEAK INTENSITY: IN./HR. AT T_c = TWELVE (12) MINUTES, 100-YR. = 4.70, TABLE A-10

"LAND TREATMENT METHOD" FOR CALCULATION OF "Q_p", TABLES A-8 & A-9

"LAND TREATMENT FACTORS", TABLE A-4

EXISTING CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.25	X 2.87	= 0.72

"Q_p" = 0.72 CFS

PROPOSED DEVELOPED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.03	X 2.87	= 0.09
D	0.22	X 4.37	= 0.96

"Q_p" = 1.05 CFS

*** INCREASE = 1.05 CFS - 0.72 CFS = 0.33 CFS INCREASE

BENCH MARK REFERENCE:

ACS STATION "8-B10", an "X" CUT ON THE BONNET BOLT OF THE FIRE HYDRANT LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF WHITEMAN AND MONTAÑO ROAD, N.W.; M.S.L.D. ELEVATION = 5143.13, (PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).

NOTE: RECORDED EASEMENT DOCUMENTS WILL BE PROVIDED FOR INGRESS, EGRESS, AND DRAINAGE OVER AND ACROSS THE PROPERTY IMMEDIATELY EAST OF AND ADJACENT TO THE SUBJECT SITE PRIOR TO SUBMITTAL FOR BUILDING PERMIT.

PROVIDED.

(NOVEMBER, 2001)

"ENGINEER'S CERTIFICATION"

A PROPOSED GRADING-DRAINAGE PLAN
 FOR
 DAVID L. SEVIERI
 (MONTAÑO ROAD N.W.)
 ALBUQUERQUE, NEW MEXICO
 JANUARY, 2001
 (SEPTEMBER, 2001)

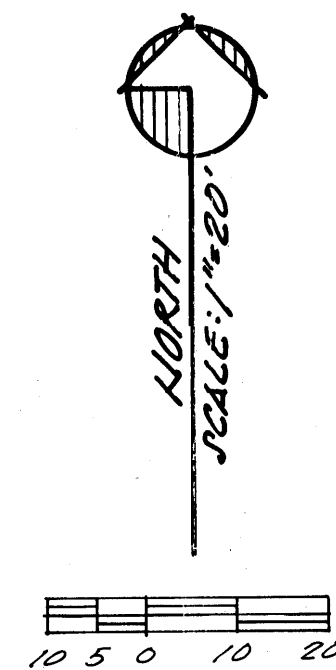
ENGINEER'S SEAL

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

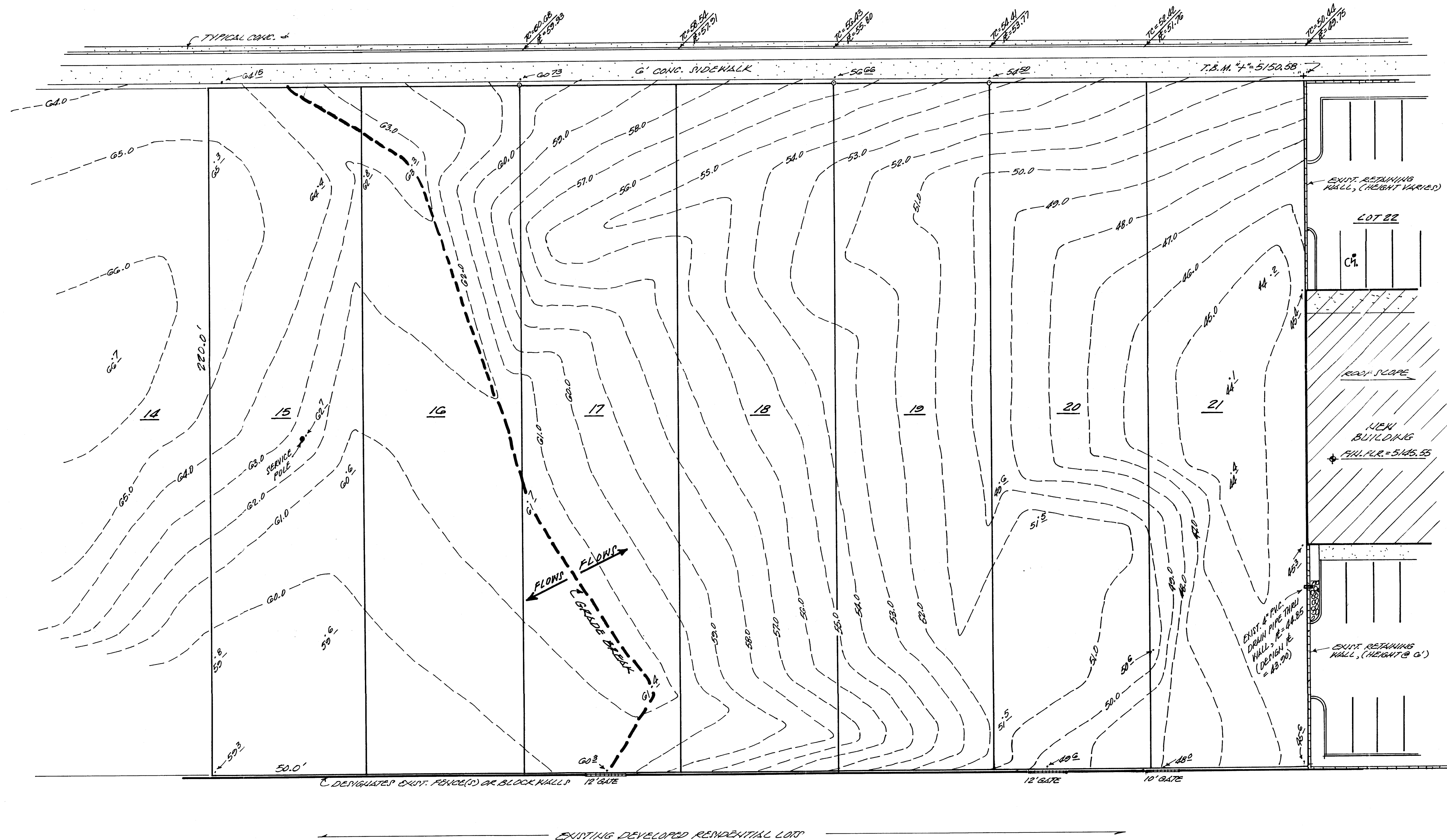
TABLE A-4. LAND TREATMENTS	
Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined arroyos.
B	Irrigated lawns, parks 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.

TABLE A-10. PEAK INTENSITY (IN./HR. AT t _c = 0.2 hour)		
Zone	Intensity	100-YR [2-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]

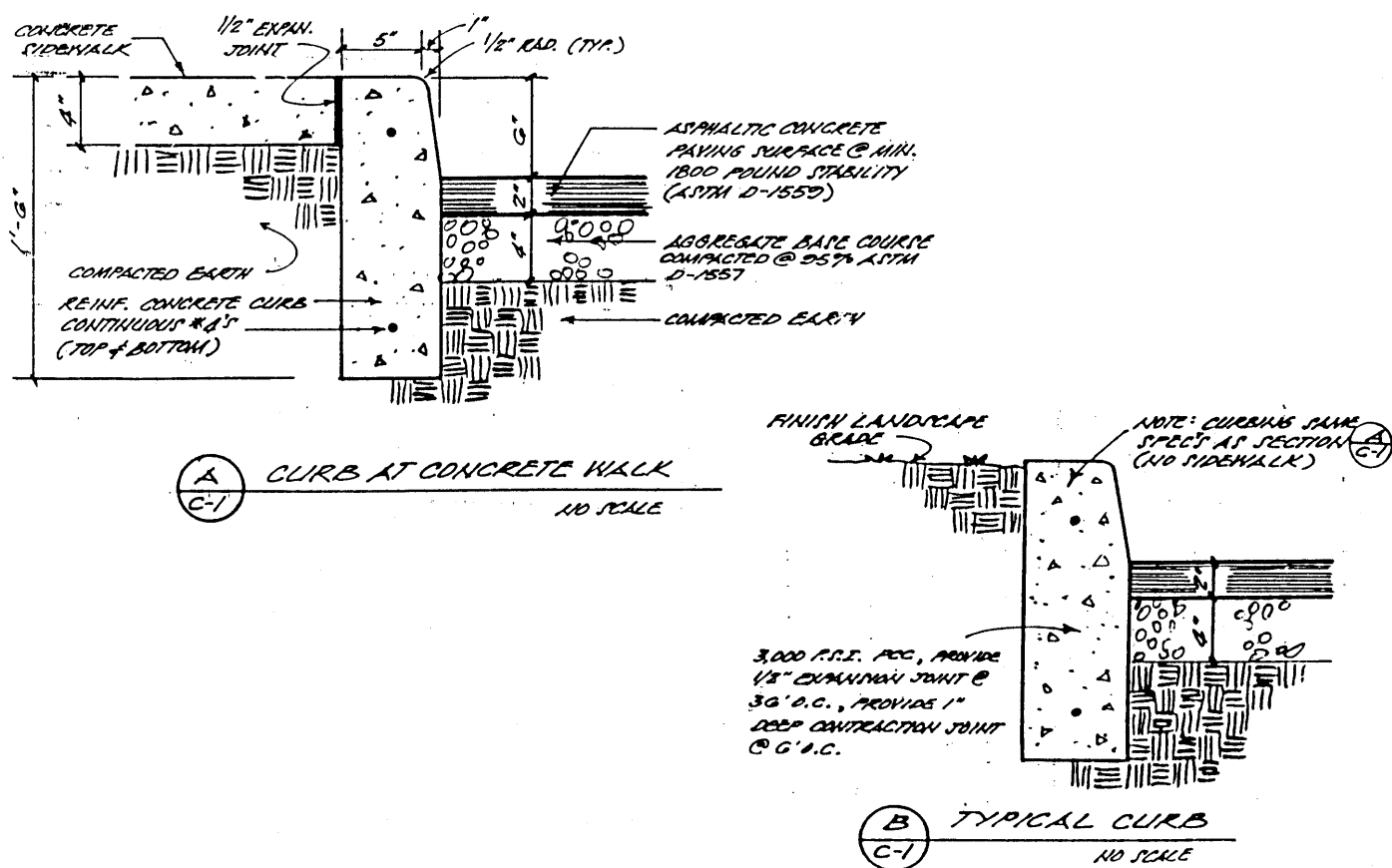
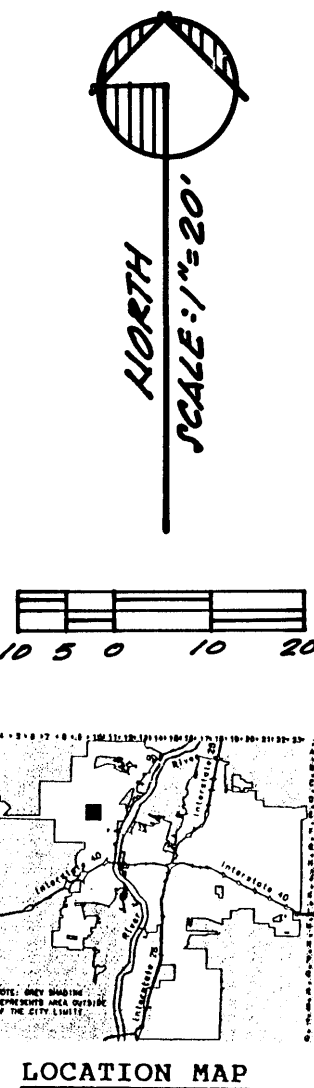
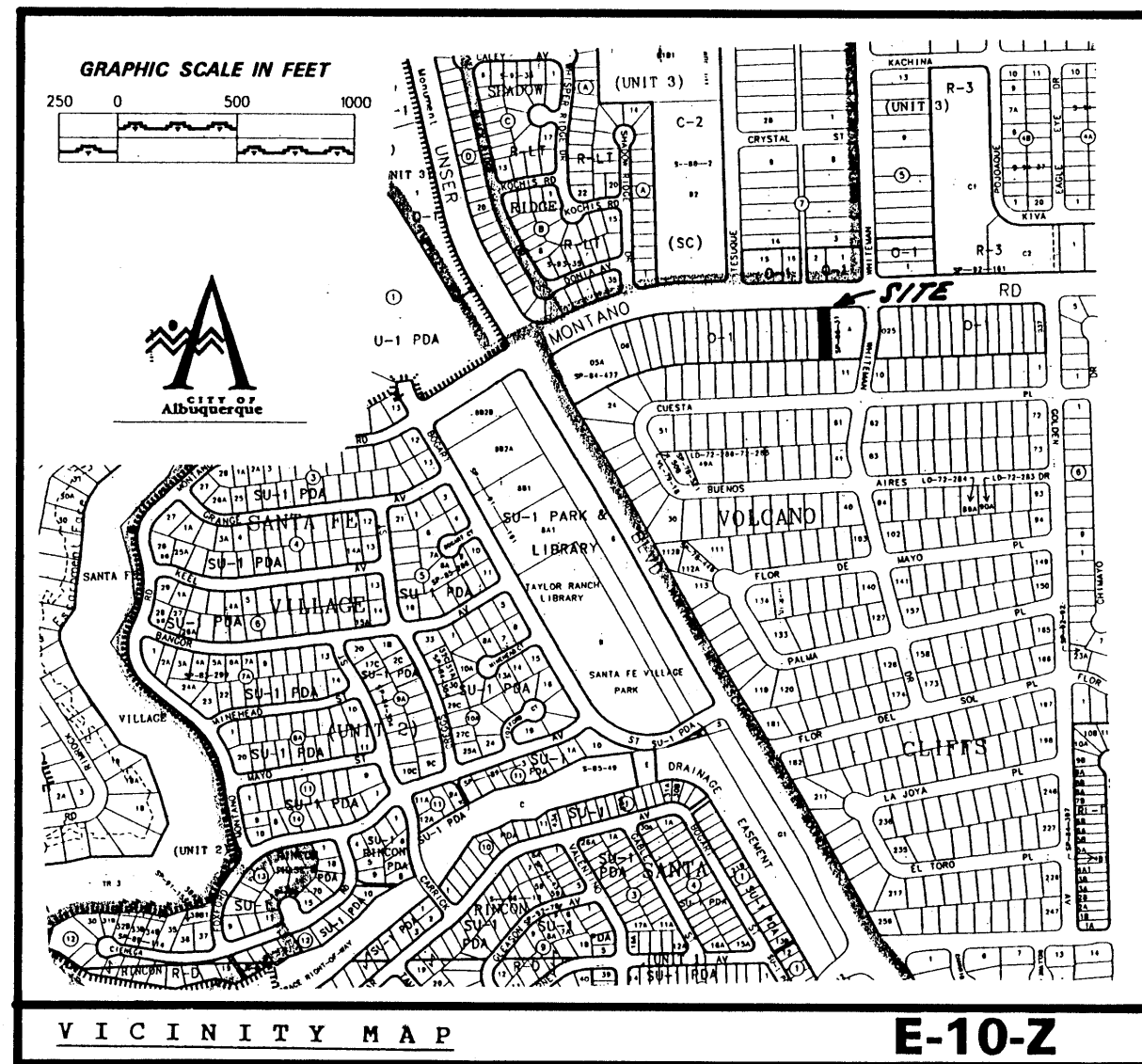


MONTAÑO ROAD H.W.



NOTE: AREA EAST OF GRADE BREAK LINE = 1.27 AC.
 TREATMENT AREA/ACRE FACTOR CFP
 C 0.19 X 2.87 = 0.55
 D 1.08 X 4.37 = 4.72
 "CRP" = 5.27 CFP
 (AREA CONSIDERED FULLY DEVELOPED)

CLIENT: SEVIERI, DAVID
 DATE: NOV. 3, 2001
 ZONE ATLAS: E-10-2



LEGEND:

TOP OF CURB ELEVATION = 70.50-64
CURB FLOWLINE ELEVATION = 69.75
EXISTING SPOT ELEVATION = 69.75
EXISTING CONTOUR ELEVATION = 69.75
PROPOSED SPOT ELEVATION = 69.75
PROPOSED CONTOUR ELEVATION = 69.75
PROPOSED OR EXISTING CONCRETE SURFACE = 69.75
EXISTING FENCE LINE = 69.75

EROSION CONTROL MEASURES:

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

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

CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OR SUB-SURFACE UTILITIES.
- 2.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) 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 ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4.) ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

GENERAL NOTES:

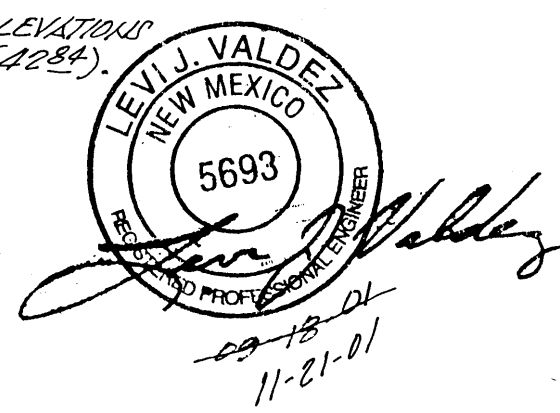
- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.

- 1.) EXISTING BLOCK WALLED ENCLOSURE(S) FOR TELECOMMUNICATION TOWERS.
- 2.) REMOVE EXISTING CONCRETE CURBING AND MATCH NEW ASPHALT PAVING TO EDGE OF EXISTING PAVEMENT.

ENGINEER'S CERTIFICATION:

I, LEVI J. VALDEZ, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 5693, LICENSED AND REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT AN ACTUAL ON THE GROUND FIELD SURVEY OF THE GRADES OF THE NEW IMPROVEMENTS SHOWN HEREON VERIFY THAT SAID IMPROVEMENTS WERE CONSTRUCTED IN "SUBSTANTIAL COMPLIANCE" WITH THE APPROVED DRAINAGE PLAN FOR SAID SITE.

* NOTE: "AS-BUILT" ELEVATIONS ARE SHOWN THUS (2284).

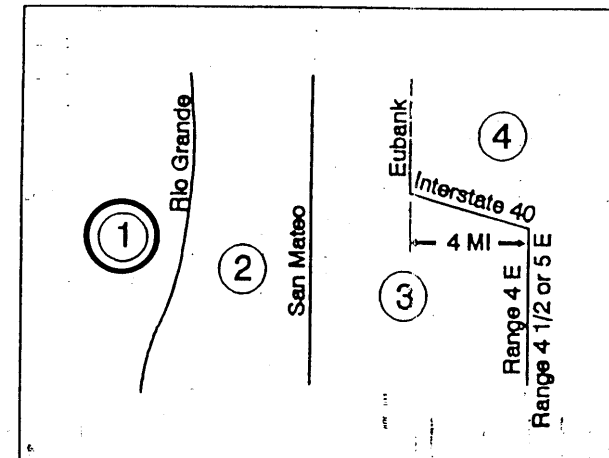


A.1 PRECIPITATION ZONES

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

FIGURE A-1



Where a watershed extends across a zone boundary, use the zone which contains the largest portion of the watershed.

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, groundcover and infiltration capacity. Croplands. Unlined arroyos.
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.

Zone	Treatment			
	A	B	C	D
1	1.29 [0.00, 0.24]	2.03 [0.03, 0.76]	2.87 [0.47, 1.49]	4.37 [1.69, 2.89]
2	1.56 [0.00, 0.38]	2.28 [0.06, 0.95]	3.14 [0.60, 1.71]	4.70 [1.86, 3.14]
3	1.87 [0.00, 0.58]	2.60 [0.21, 1.19]	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]
4	2.20 [0.06, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.28]	5.25 [2.17, 3.67]

Zone	Intensity [2-YR, 10-YR]
1	4.70 [1.84, 3.14]
2	5.06 [2.04, 3.41]
3	5.39 [2.21, 3.65]
4	5.61 [2.34, 3.83]

DRAINAGE COMMENTS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE SOUTH SIDE OF MONTANO ROAD, N.W., BETWEEN WHITEMAN DRIVE, N.W. AND UNSER BLVD. N.W., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "E-10-Z").

THE SUBJECT SITE, 1.) IS A VACANT INFILL SITE, 2.) DOES ACCEPT MINIMAL OFF-SITE FLOWS FROM THE PROPERTY LYING IMMEDIATELY WEST OF THE SUBJECT SITE, THESE FLOWS WILL BE ALLOWED TO BE ACCEPTED AND PASSED THROUGH THE SUBJECT PROJECT SITE, 3.) DOES CONTRIBUTE TO THE OFFSITE FLOWS OF THE PROPERTY TO THE EAST OF THE SUBJECT PROJECT SITE, FLOWS FROM THE DEVELOPED PROJECT SITE ARE TO BE ALLOWED VIA RECORDED SURFACE DRAINAGE EASEMENT(S) ACROSS SAID PROPERTY, 4.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN ACCORDING TO F.E.M.A. FIRM PANEL 114 OF 825.

THE CALCULATIONS WHICH APPEAR HEREON ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT; AS SHOWN BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL INCREASE THE PEAK DISCHARGE BY APPROXIMATELY 0.33 CFS, AND THESE FLOWS WILL HAVE NO ADVERSE IMPACT TO DOWN-STREAM PROPERTIES.

DRAINAGE CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2., DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

SITE AREA: 50' X 220' = 11,000.0 SQ. FT. = 0.25 ACRE

PRECIPITATION ZONE: ONE (1), TABLE A-1

PEAK INTENSITY: IN./HR. AT t_c = TWELVE (12) MINUTES, 100-YR. = 4.70, TABLE A-10

"LAND TREATMENT METHOD" FOR CALCULATION OF " Q_p ", TABLES A-8 & A-9

"LAND TREATMENT FACTORS", TABLE A-4

EXISTING CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.25	X	2.87 = 0.72

" Q_p " = 0.72 CFS

PROPOSED DEVELOPED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.03	X	2.87 = 0.09
D	0.22	X	4.37 = 0.96

" Q_p " = 1.05 CFS

*** INCREASE = 1.05 CFS - 0.72 CFS = 0.33 CFS INCREASE

BENCH MARK REFERENCE:

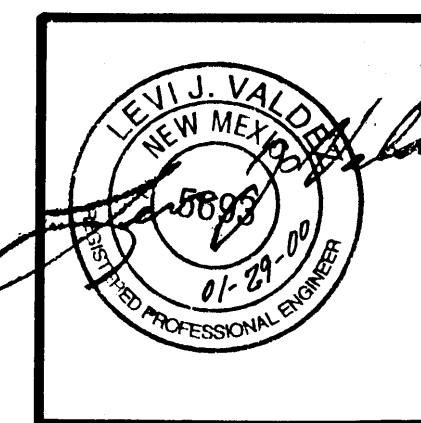
ACS STATION "8-810", an "X" CUT ON THE BONNET BOLT OF THE FIRE HYDRANT LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF WHITEMAN AND MONTANO ROAD, N.W.; M.S.L.D. ELEVATION = 5143.13, (PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).

NOTE: RECORDED EASEMENT DOCUMENTS WILL BE PROVIDED FOR INGRESS, EGRESS, AND SURFACE DRAINAGE OVER AND ACROSS THE PROPERTY IMMEDIATELY EAST OF AND ADJACENT TO THE SUBJECT SITE PRIOR TO SUBMITTAL FOR BUILDING PERMIT.

PROVIDED.

LEGAL DESCRIPTION:

LOT NUMBERED "0-22" OF VOLCANO CLIFFS SUBDIVISION, TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "E-10-Z").



(NOVEMBER, 2001)
"ENGINEER'S CERTIFICATION"
A PROPOSED GRADING-DRAINAGE PLAN
FOR
DAVID L. SEVIER
(MONTANO ROAD N.W.)
ALBUQUERQUE, NEW MEXICO
JANUARY, 2001
(SEPTEMBER, 2001)

(TRAFFIC CIRCULATION LAYOUT)