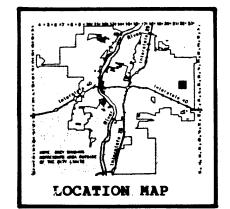


H22-Z

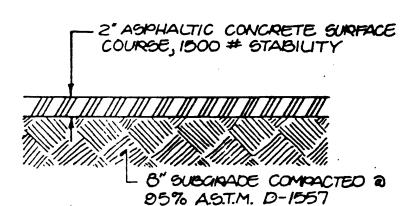


EROSION CONTROL MEASURES

- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:
- 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 SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) 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.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY 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 2Go-1990 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.



TYPICAL PAVEMENT SECTION

SCALE: 1" = 1'-0"

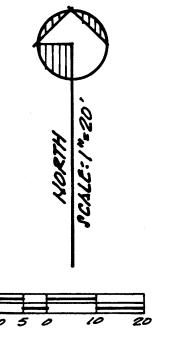


TABLE A-8. PEAK DISCHARGE (cfs/scre)						
Zone		Treatment				
	A	В	С	D		
1,	1.29	2.03	2.87	4.37		
	[0.00, 0.24]	[0.03, 0.76]	[0.47, 1.40]	[1.69, 2.89]		
2	1.56	2.28	3.14	4.70		
	[0.00, 0.36]	[0.08, 0.95]	[0.60, 1.71]	[1.86, 3.14]		
3	1.87	2. 60	3.45	5.02		
	[0.00, 0.58]	[0.21, 1.19]	[0.78, 2.00]	[2.04, 3.39]		
0	2.20	2.92	3.73	5. 25		
	[0.05, 0.87]	[0.36, 1.45]	[1.00, 2.26]	[2.17, 3.57]		

TABLE A-10.	PEAK INTENSITY (MAIR at	t _c = 0.2 hour)	
Zone	Intensity	100-YR [2-YR, 10-YR	
1	4.70 [1.84, 3.14]		
2	5.06 [2.04, 3.41]		
3	5.36 [2.21, 3.65]		
0	5.61 [2.34, 3.83]		

LANDSCAPE PLAN LEGEND:

PROPOSED ARIZONA ASH OR LOCUST TREE =

TAM JUNIPERS (LOW SPREADING EVERGREEN) =

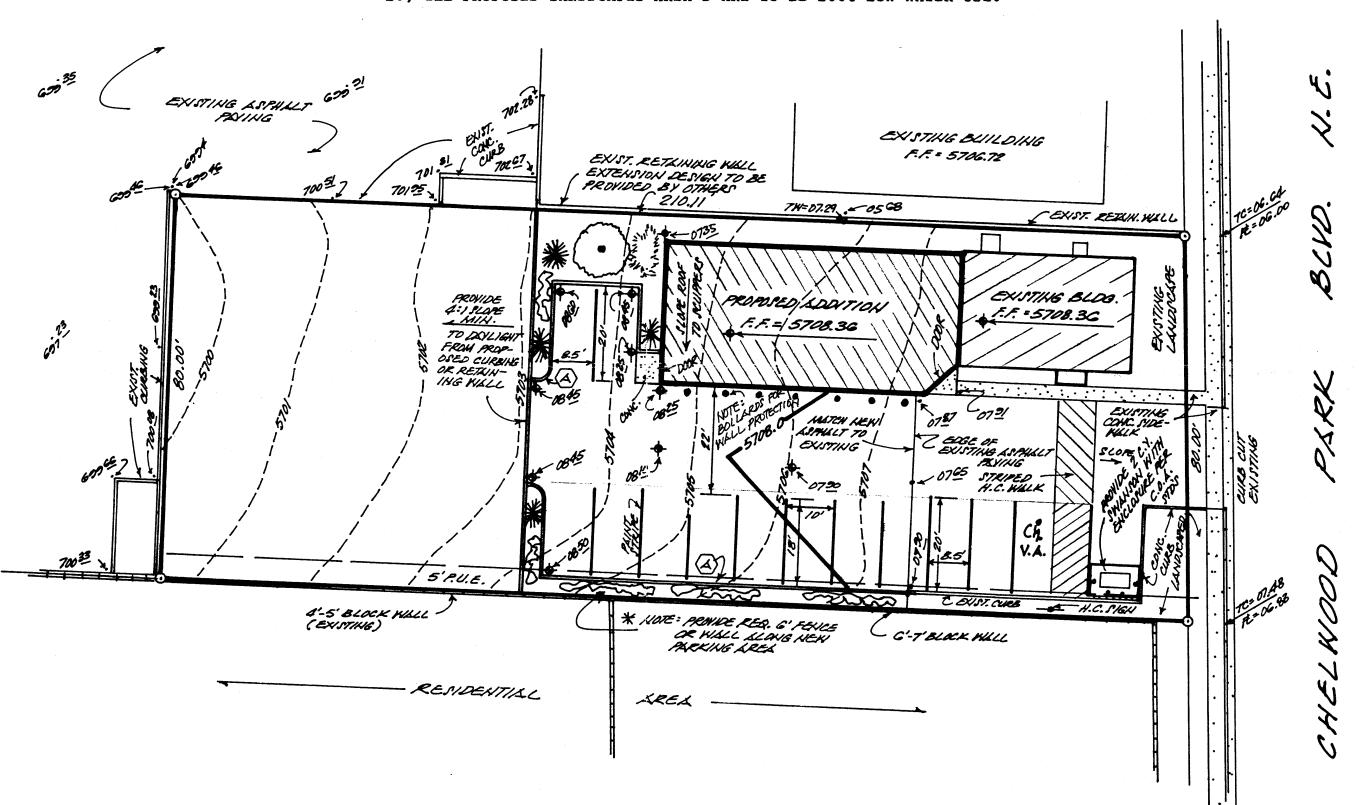
5-GAL. MIN. 36" SPREAD

ARTEMISIA CANA (SILVER SAGE) =

\$\frac{2}{2} \frac{1}{2} \frac{1}{2}

** GROUND COVER TO BE GRAVEL OVER PLASTIC

- NOTE: A.) LANDSCAPED AREA'S ARE TO BE IRRIGATED BY HAND-HELD HOSE-BIB.
 - B.) THE PROPOSED LANDSCAPED AREA'S ARE TO BE 100% LOW WATER USE.



LEGEND:

 PROJECT DATA:

ADDRESS: 2201 CHELWOOD PARK N.E.

ZONING: C-1

SITE AREA: 0.39 ACRE

NEW BUILDING AREA: 1,886.0 SQUARE FEET

TYPE OF CONSTRUCTION: VN

OCCUPANCY GROUP: B2

PARKING SPACES REQUIRED: 12 SPACES

PARKING SPACES PROVIDED: 13 SPACES

NOTE: PROJECT CONTRACTOR HAS STATED THAT HR HAS FIELD VERIFIED THAT THE EXISTING SANITARY SEWER SERVICE LINES HAVE ADEQUATE SLOPE TO SERVICE NEEDS FOR THE PROPOSED BUILDING ADDITION.

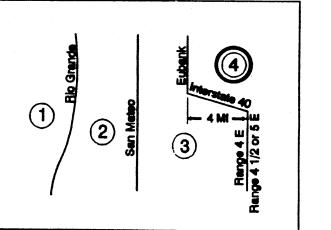
NONE A-1.

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			
0	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 zone boundary, use the zone which contains the largest portion of the watershed.

DPM SECTION 22.2 - HYDROLOGY

	TABLE A-4. LAND TREATMENTS					
Treatment	Land Condition					
۸	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.					
В .	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.					
С	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.					

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

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE WEST SIDE OF CHELWOOD PARK BLVD. N.E. APPROXIMATELY 1/2 BLOCK SOUTH OF MENAUL BLVD. N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEX-

THE SUBJECT SITE, 1.) IS PRESENTLY A PARTIALLY DEVELOPED COMMERCIAL PROPERTY THAT IS TO HAVE A PROPOSED BUILDING ADDITION AND ASSOCIATED IMPROVEMENTS CONSTRUCTED THEREON, 2.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN (RE: F.E. M.A. FLOOD PANEL 357 OF 825), 3.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 4.) DOES CONTRIBUTE TO THE OFFSITE FLOWS OF THE ADJACENT PROPERTY THAT LIES WEST OF SAID SUBJECT PROPERTY. 5.) IS TO HAVE ALL DEVELOPED FLOWS DISCHARGE THROUGH THE EXISTING DRIVE PAD AND INTO AFOREMENTIONED CHELWOOD PARK BLVD. N.E., 6.) WITH THE PROPOSED AND DEVELOPED FLOWS WILL MINIMIZE THE AFOREMENTIONED OFFSITE FLOWS INTO THE AFOREMENTIONED ADJACENT PROPERTY.

ALCULATIONS

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2., DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DATED JANUARY, 1993.

SITE AREA: 0.39 ACRE

PRECIPITATION ZONE: FOUR (4), TABLE A-1.

PEAK INTENSITY: IN./HR. AT T_C = TWELVE (12) MINUTES, 100-YR. = 5.61 LAND TREATMENT METHOD FOR THE CALCULATION OF "Qp", TABLES A-8 & A-9. "LAND TREATMENT FACTORS", TABLE A-4

EXISTING CONDITIONS:

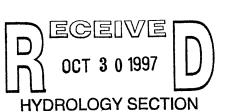
<u> </u>	AREA/ACRES		<u>FACTOR</u>		<u>CFS</u>
C	0.32	X	3.73	=	1.19
D	0.07	X	5.25	=	0.37
$Q_p = 1.56$ CFS					
PROPOSED DEVELOPE	D CONDITIONS:				
PREATMENT	AREA/ACRES		FACTOR		CFS

GEMERAL NOTES:

 $^{\rm H}Q_{\rm D}^{\rm H} = 1.75$ CFS

- 1.) TOPOGRAPHY SURVEY INFORMATION FURNISHED BY TORRES SURVEYING COMPANY, ALBUQUERQUE, NEW MEXICO.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN MAY BE SHOWN ON THE PLAN HEREON.

*** INCREASE = 0.19 CFS



x 3.73 = 0.75

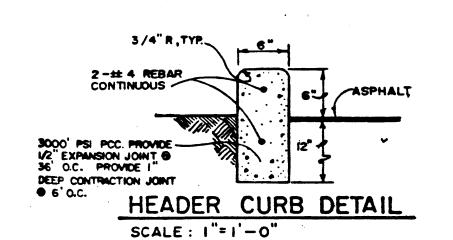
= 1.00

5.25

A PROPOSED DRAILISGE PLAKI
FOR A BUILDING ADDITION LOCATED AT

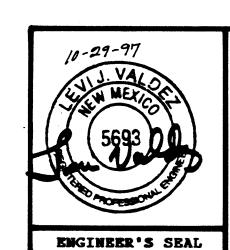
2201 CHELKOOD PARK LI.E.

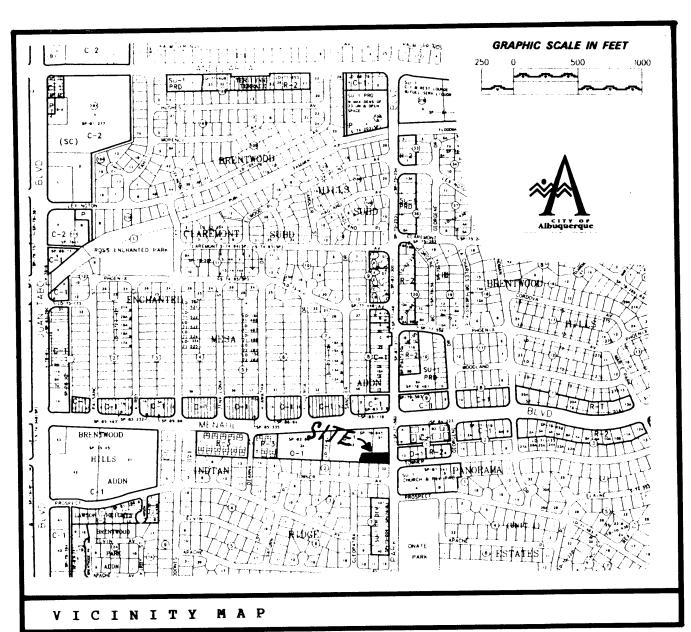
ALBUQUERQUE, KIEKI MEXICO
OCTOBER, 1997



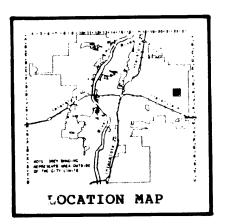
LEGAL DESCRIPTION: TRACT "3-B2", BLOCK TWO (2), INDIAN RIDGE SUBDIVISION, ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCE: A.C.S. STATION " 6-H22A", M.S.L. ELEVATION = 5706.54, (PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).





H22-Z

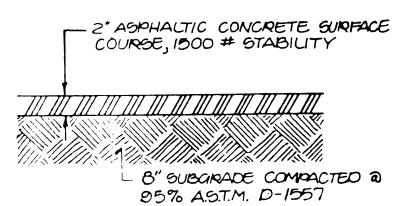


EROSION CONTROL MEASURES

- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES
- 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 SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) 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.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

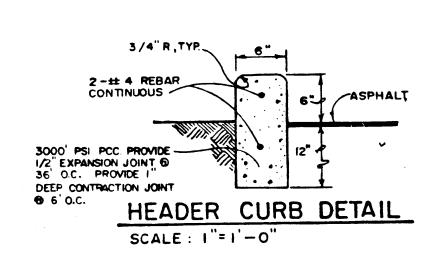
CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 2GO-1990 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 PRO-



TYPICAL PAVEMENT SECTION

SCALE: 1" = 1'-0"



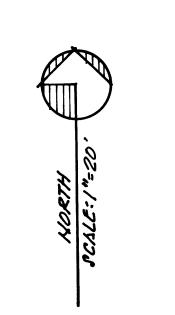


TABLE A-9. PEAK DISCHARGE (cfs/acre)					
	100-YR Treatment [2-YR, 10-YR				
Zone	A	В	С	D	
1	1.29	2.03	2.87	4.37	
	[0.00, 0.24]	[0.03, 0.76]	[0.47, 1.49]	[1.69, 2.89]	
2	1.56	2.28	3.14	4.70	
	[0.00, 0.38]	[0.08, 0.95]	{ 0.60, 1.71 }	[1.86, 3.14]	
3	1.87	2. 6 0	3.45	5.02	
	[0.00, 0.58]	[0.21, 1.19]	[0.78, 2.00]	[2.04, 3.39]	
0	2.20	2.92	3.73	5.25	
	[0.05, 0.87]	[0.38, 1.45]	[1.00, 2.26]	[2.17, 3.57]	

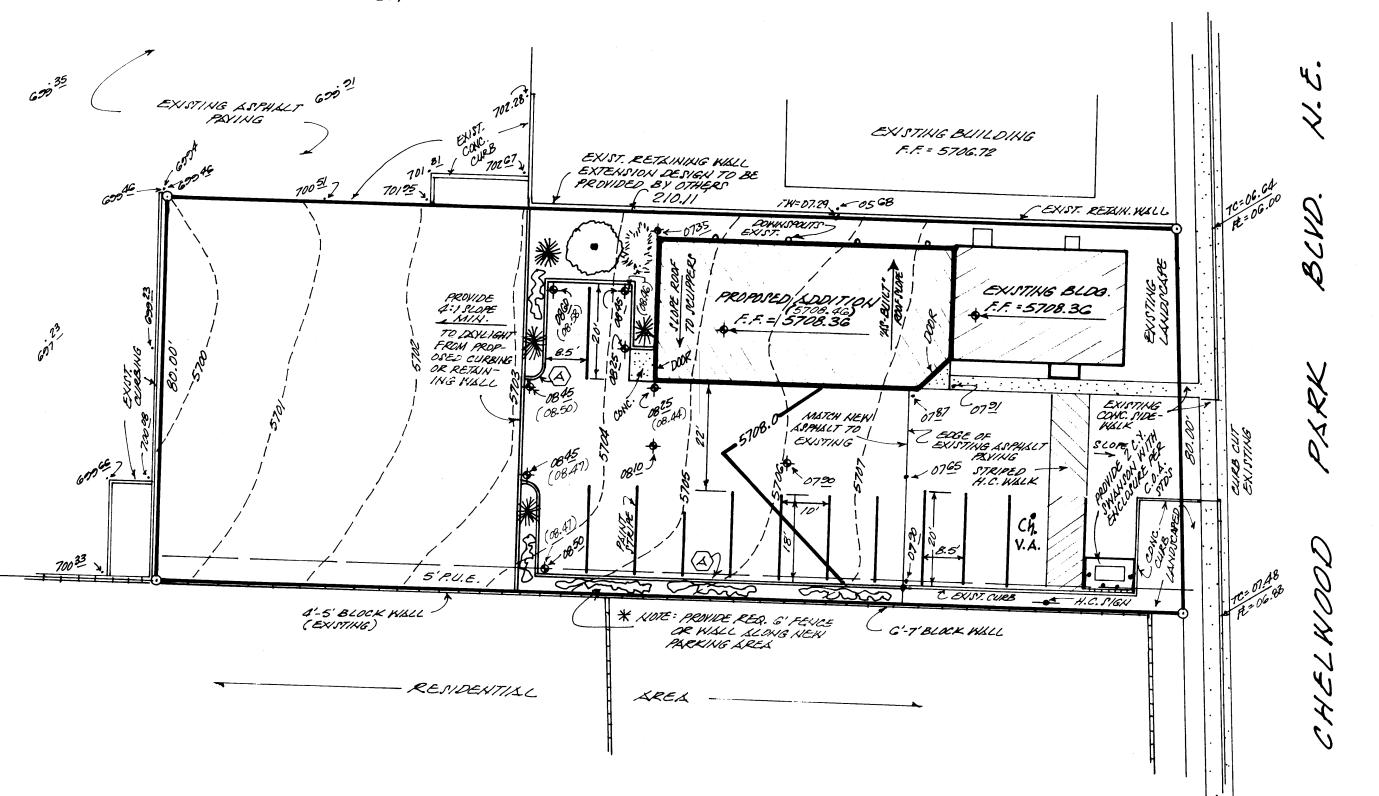
TABLE A-10. PEAK INTENSITY (IN/HR at t _c = 0.2 hour)				
Zone	intensity	100-YR [2-YR, 10-YR]		
1	4.70 [1.84, 3.14]			
2	5.05 [2.04, 3.41]			
3	5.38 [2.21 , 3.65]			
4	5.61 [2.34. 3.83]			

ARTEMISIA CANA (SILVER SAGE) = STANTING STANTING

** GROUND COVER TO BE GRAVEL OVER PLASTIC

NOTE: A.) LANDSCAPED AREA'S ARE TO BE IRRIGATED BY HAND-HELD HOSE-BIB.

B.) THE PROPOSED LANDSCAPED AREA'S ARE TO BE 100% LOW WATER USE.



PROJECT DATA:

ADDRESS: 2201 CHELWOOD PARK N.E.

ZONING: C-1

SITE AREA: 0.39 ACRE

NEW BUILDING AREA: 1,886.0 SQUARE FEET

TYPE OF CONSTRUCTION : VN

OCCUPANCY GROUP: B2
PARKING SPACES REQUIRED: 12 SPACES

PARKING SPACES PROVIDED : 13 SPACES

NOTE: PROJECT CONTRACTOR HAS STATED THAT HE HAS FIELD VERIFIED THAT THE EXISTING SANITARY SEWER SERVICE LINES HAVE ADEQUATE SLOPE TO SERVICE NEEDS FOR THE PROPOSED BUILDING ADDITION.

LEGAL DESCRIPTION: TRACT "3-B2", BLOCK TWO (2), INDIAN RIDGE SUBDIVISION, ALBUQUERQUE, NEW MEXICO.

L E G E N D :

TOP OF CURB ELEVATION = TC = 07.48

CURB FLOWLINE ELEVATION = FE = 07.07

EXISTING SPOT ELEVATION = -- 06.5

"AS-BUILT" ELEVATIONS = (08.47)

PROPOSED SPOT ELEVATION = * 085

EXISTING CONTOUR = --570/---

PROPOSED CONTOUR = 5702.0

BENCH MARK REFERENCE:

A.C.S. STATION " 6-H22A", M.S.L. ELEVATION = 5706.54,

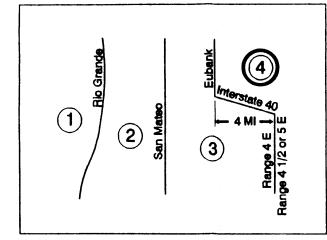
(PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).

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				
•	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

	TABLE A-4. LAND TREATMENTS
Treatment	Land Condition
Α	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.
8	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
С	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.

treatments, measure respective subareas. In lieu of specific measurement for

reatment D, the areal percentages in TABLE A-5 may be employed.

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE WEST SIDE OF CHELWOOD PARK BLVD. N.E. APPROXIMATELY 1/2 BLOCK SOUTH OF MENAUL BLVD. N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEX-

THE SUBJECT SITE, 1.) IS PRESENTLY A PARTIALLY DEVELOPED COMMERCIAL PROPERTY THAT IS TO HAVE A PROPOSED BUILDING ADDITION AND ASSOCIATED IMPROVEMENTS CONSTRUCTED THEREON, 2.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN (RE: F.E. M.A. FLOOD PANEL 357 OF 825), 3.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 4.) DOES CONTRIBUTE TO THE OFFSITE FLOWS OF THE ADJACENT PROPERTY THAT LIES WEST OF SAID SUBJECT PROPERTY. 5.) IS TO HAVE ALL DEVELOPED FLOWS DISCHARGE THROUGH THE EXISTING DRIVE PAD AND INTO AFOREMENTIONED CHELWOOD PARK BLVD. N.E., 6.) WITH THE PROPOSED AND DEVELOPED FLOWS WILL MINIMIZE THE AFOREMENTIONED OFFSITE FLOWS INTO THE AFOREMENTIONED ADJACENT PROPERTY.

CALCULATIONS

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2., DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DATED JANUARY, 1993.

site AREA: 0.39 ACRE

PRECIPITATION ZONE: FOUR (4), TABLE A-1.

PEAK INTENSITY: IN./HR. AT T_C = TWELVE (12) MINUTES, 100-YR. = 5.61 LAND TREATMENT METHOD FOR THE CALCULATION OF "Q", TABLES A-8 & A-9.

"LAND TREATMENT FACTORS" , TABLE A-4

EXISTING CONDIT	CIONS:				
TREATMENT	AREA/ACRES		FACTOR		CFS
c	0.32	X	3.73	=	1.19
D	0.07	X	5.25	=	0.37
$"Q_p" = 1.56 \text{ CFS}$	3				
	OPED CONDITIONS:				
TREATMENT	AREA/ACRES		FACTOR		CFS
C	0.20	X	3.73	=	0.75
D D	0.19	X	5.25	=	1.00

GENERAL NOTES:

 $"Q_" = 1.75 \text{ CFS}$

- 1.) TOPOGRAPHY SURVEY INFORMATION FURNISHED BY TORRES SURVEYING COMPANY, ALBUQUERQUE, NEW MEXICO.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN MAY BE SHOWN ON THE PLAN HEREON.

*** INCREASE = 0.19 CrS



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 ON THE PLAN HEREON, VERIFY THAT SAID IMPROVEMENTS WERE CONSTRUCTED IN "SUBSTANTIAL COMPLIANCE" WITH THE APPROVED DRAINAGE PLAN FOR SAID SITE WITH THE EXCEPTION OF THE DIRECTION OF THE "AS-BUILT" ROOF FLOWS OF THE NEW ADDITION WHICH IS NOT IN COMPLIANCE WITH SAID APPROVED PLAN, (A "HOLD HARM-LESS LETTER" FROM SUBJECT PROPERTY OWNER IS ATTACHED HERETO).

ENGINEER'S CERTIFICATION
A PROPOSED DRAILISGE PLAN

FOR A BUILDING ADDITION LOCATED TO

APR 17 1998

ALBUQUERQUE, NEW MEXICO

OCTOBER, 1997

(CERTIFICATION: 04-17-98)

