PUBLIC WORKS/HYDROLOGY

F18/D51

DRAINAGE SUMMARY - Albuquerque Lawn & Log

References :

A. City of Albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22, Drainage, Flood Control and Erosion Control.

B. Soil Survey of Bernalillo County, New Mexico, United States Department of Agriculture, Soil Conservation Service.

General Information :

A. Soil Type (Ref. B., Page 18) is Ca3, Embudo gravelly fine sandy loam, 0 to 5 percent slopes, Runoff is medium, Soil erosion is moderate. This soil has a Class "B" Hydrologic Classification.

B. Perviousness: (SEE REF. A., PLATES 22.2 C-2, 22.2 C-3)

SURFACE TYPE	AREA SIZE SQ. FT.	ACRES	"CN" VALUES INIT.	WT. AVG.
ENTIRE SITE: EXISTING				
BASIN I				
ROOF & PAVEMENT	8175	0.188	98	58.84
LANDSCAPED/UNIMPROVED	6172	0.142	61	32.24
TOTALS:	14348	0.330		92.08
BASIN II				
ROOF & PAVEMENT	2400	0.055	98	53.46
LANDSCAPED/UNIMPROVED	0	0.000	61	00.00
TOTALS:	2400	0.055		53.46
ENTIRE SITE: PROPOSED				
BASIN I				
ROOF & PAVEMENT	8175	0.188	98	66.08
LANDSCAPED/UNIMPROVED	3949	0.091	61	19.89
TOTALS:	12124	0.278		85.97
BASIN II				
ROOF & PAVEMENT	3600	0.083	98	76.38
LANDSCAPED/UNIMPROVED	1024	0.024	61	15.53
TOTALS:	4624	0.106		91.13

RAINFALL, 100 YEAR, 6-HOUR, P-6; (SEE REF. A., PLATE 22.2 D-1)
RAINFALL = 2.3 inches
TIME OF CONCENTRATION, Tc; USE THE MINIMUM TIME OF CONCENTRATION OF TEN (10) MINUTES.

RUNOFF VOLUME, R; (SEE REF. A., PLATE 22.2 C-4)

R (EXISTING - BASIN I) = 0.55"
R (PROPOSED - BASIN I) = 1.15"
R (EXISTING - BASIN II) = 0.15"
R (PROPOSED - BASIN II) = 1.55"

PEAK DISCHARGE:

	FLOW, Q (100 yr)	RUNOFF, V (100 yr)
ENTIRE SITE:		
EXISTING SITE:		
BASIN I	1.45 cfs	1136 cf
BASIN II	0.32 cfs	486 cf
PROPOSED SITE:		
BASIN I	1.45 cfs	1162 cf
BASIN II	0.57 cfs	634 cf

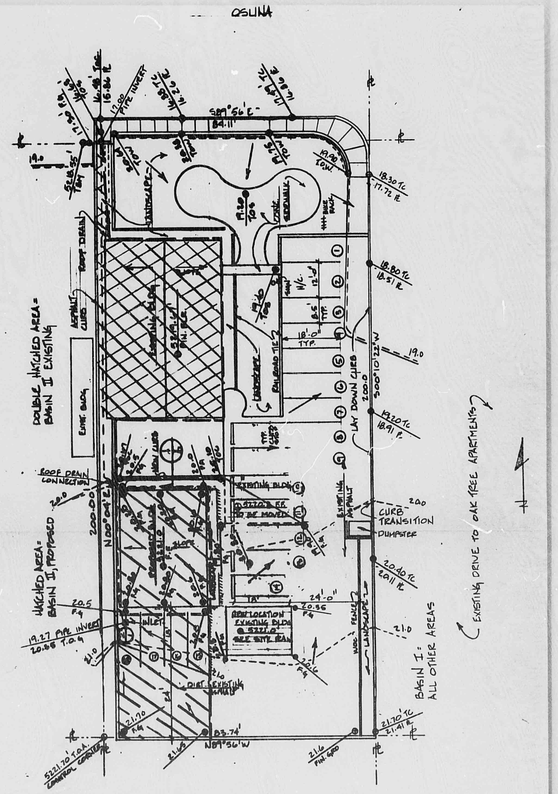
LEGAL DESCRIPTION:
5700 OSUNA RD NE
HIGHLAND PARK EAST SUBDIVISION
TRACT D
ALBUQ., N.M.

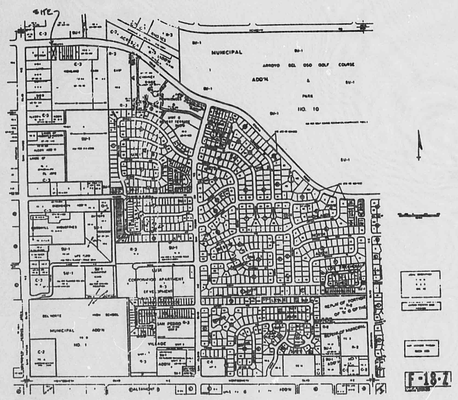
BENCHMARK:
STATION B-F18, A CAP EMBEDDED IN NORTH CURB 0.3 MILES EAST OF SAN MATEO ON OSUNA
ELEV. = 5239.12' ABOVE MEAN SEA LEVEL

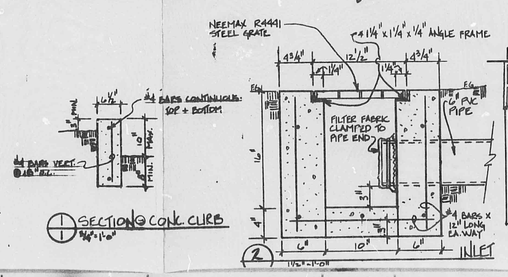
TEMPORARY BENCHMARK:
REBAR NEAR NORTHWEST CORNER OF PROPERTY
ELEV. = 5218.55' ABOVE MSL.

PARKING REQUIREMENTS:
EXIST OFFICE/RETAIL BLDG - 12 SPACES REQ
EXIST MODULAR BLDG 2 REQ
NEW STORAGE/WAREHOUSE - 2 SPACES REQ
EXIST PREFA SHED 2 REQ
10% REDUCTION FOR OVL SCOP = 1.7 = 1 SPACE
1 HANDICAP SPACE PROVIDED W/SIGN
17 SPACES REQ
18 PROVIDED

LEGEND:
EXISTING ELEVATIONS
NEW ELEVATIONS
FLOW DIRECTION
F.F. FINISH FLOOR
F.G. FINISH GRADE
F.L. FLOW LINE
T.O.S. TOP OF SIDEWALK
T.O.W. TOP OF WALL
T.O.C. TOP OF CURB
T.O.G. TOP OF GRATE







1 SECTION @ CONC. CURB
3/4"=1'-0"

DRAINAGE PLAN 1"=20'-0"

OCT 30 1989
HYDROLOGY SECTION

AUG 3, 1989 REVISED OCT 24, 1989

STORAGE/WHSE BLDG FOR ALBUQ LAWN + LOG	
JULY 1989	SHT 1 OF 6
DRAFTING UNLIMITED BARB CHAVEZ 281-1008	

PLANS/PLATS ON FILE

FILE DESC: F18/D51

PLANS/PLATS 1

PLAN SHOT TWICE
ONCE ON RIGHT
ONCE ON TAKE

CITY OF ALBUQUERQUE
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R# 26 DATE 3-26-92 OP

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DRAINAGE SUMMARY - Albuquerque Lawn & Log

References :

A. City of Albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22, Drainage, Flood Control and Erosion Control.

B. Soil Survey of Bernalillo County, New Mexico, United States Department of Agriculture, Soil Conservation Service.

General Information :

A. Soil Type (Ref. B., Page 18) is 6mD, Embude gravelly fine sandy loam, 0 to 5 percent slopes. Runoff is medium. Soil erosion is moderate. This soil has a Class "B" Hydrologic Classification.

B. Perviousness: (SEE REF. A., PLATES 22.2 C-2, 22.2 C-3)

SURFACE TYPE	AREA SIZE SQ. FT.	ACRES	"CN" VALUES INIT.	WT. AVG.
ENTIRE SITE: EXISTING				
BASIN I				
ROOF & PAVEMENT	8175	0.188	98	55.84
LANDSCAPED/UNIMPROVED	6173	0.142	61	26.24
TOTALS:	14348	0.330		82.08
BASIN II				
ROOF & PAVEMENT	2400	0.055	98	98.00
LANDSCAPED/UNIMPROVED	0	0.000	61	00.00
TOTALS:	2400	0.055		98.00
ENTIRE SITE: PROPOSED				
BASIN I				
ROOF & PAVEMENT	8175	0.188	98	66.08
LANDSCAPED/UNIMPROVED	3949	0.091	61	19.89
TOTALS:	12124	0.278		85.97
BASIN II				
ROOF & PAVEMENT	3600	0.083	98	76.38
LANDSCAPED/UNIMPROVED	1024	0.024	80	18.83
TOTALS:	4624	0.106		95.13

RAINFALL, 100 YEAR, 6-HOUR, P-6; (SEE REF. A., PLATE 22.2 D-1)
RAINFALL = 2.3 inches
TIME OF CONCENTRATION, Tc; USE THE MINIMUM TIME OF CONCENTRATION OF TEN (10) MINUTES.

RUNOFF VOLUME, R; (SEE REF. A., PLATE 22.2 C-4)

R (EXISTING - BASIN 1) = 0.85"
R (PROPOSED - BASIN 1) = 1.15"
R (EXISTING - BASIN 2) = 2.10"
R (PROPOSED - BASIN 2) = 1.88"

PEAK DISCHARGE:

ENTIRE SITE:	FLOW, Q (100 yr)	RUNOFF, V (100 yr)
EXISTING SITE:		
BASIN 1	1.42 cfs	1136 cf
BASIN 2	0.52 cfs	428 cf
PROPOSED SITE:		
BASIN 1	1.43 cfs	1162 cf
BASIN 2	0.27 cfs	634 cf

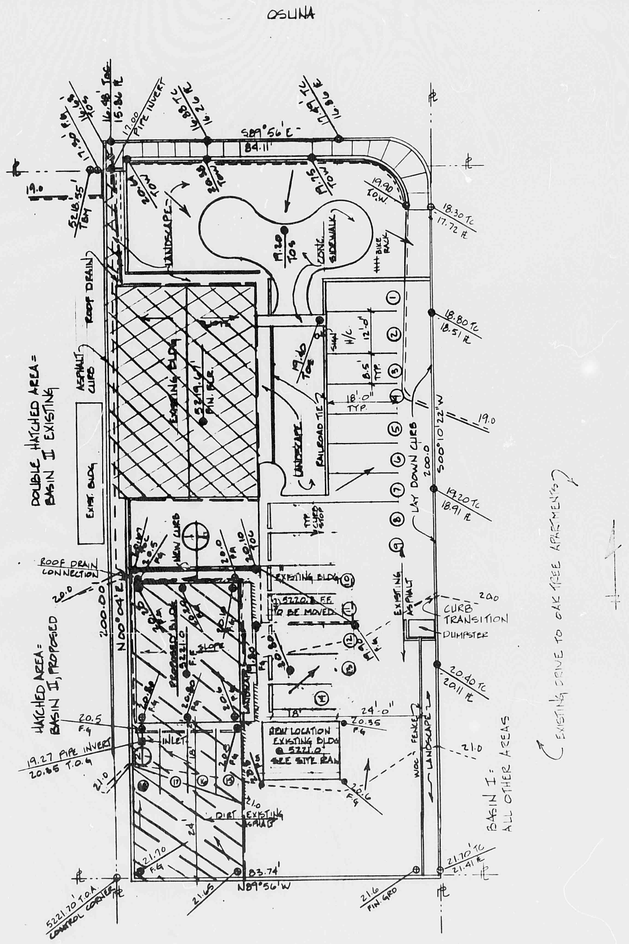
LEGAL DESCRIPTION:
5700 OSUNA RD NE
HIGHLAND PARK EAST SUBDIVISION
TRACT B
ALBUQ, N.M.

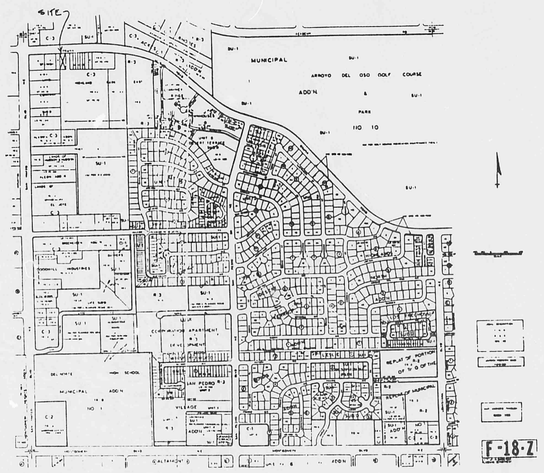
BENCH MARK:
STATION B-F18, A CAP EMBEDED IN NORTH CURB 0.3 MILES EAST OF SAN MATEO ON OSUNA
ELEV. = 5233.12' ABOVE MEAN SEA LEVEL

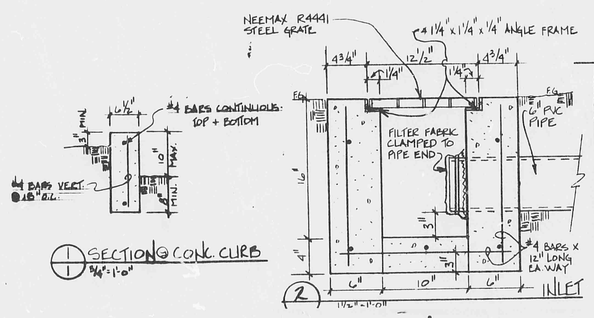
TEMPORARY BENCHMARK:
REBAR NEAR NORTHWEST CORNER OF PROPERTY
ELEV. = 5218.55' ABOVE M&L.

PARKING REQUIREMENTS:
EXST OFFICE/RETAIL BLDG - 12 SPACES REQ
EXST MODULAR BLDG 2 REQ
NEW STORAGE/WAREHOUSE - 2 SPACES REQ
EXST PARTS SHED 2 REQ
10% REDUCTION FOR BUS STOP = 17 × .1 = 1 SPACE
1 HANDICAP SPACE PROVIDED W/SIGN
} 17 SPACES REQ, 18 PROVIDED

LEGEND:
⊕ EXISTING ELEVATIONS
● NEW ELEVATIONS
→ FLOW DIRECTION
F.F. FINISH FLOOR
F.G. FINISH GRADE
F.L. FLOW LINE
TOS TOP OF SIDEWALK
TOW TOP OF WALL
TOC TOP OF CURB
T.O.G. TOP OF GRATE







1 SECTION @ CONC. CURB
3/4" = 1'-0"

2 INLET
1½" = 1'-0"

DRAINAGE PLAN 1" = 20.0'

OCT 30 1989
HYDROLOGY SECTION

AUG 3, 1989 REVISED OCT. 27, 1989

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JULY 1989	SHT 1 OF 6
DRAFTING UNLIMITED BARB CHAVEZ 281-1008	

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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