

SITE PLAN IRVING KAPLAN

DRAINAGE CALCULATIONS
Irving Kaplan Project 8313
November 3, 1983

BASIN "A"
Roof drainage from entire warehouse

Impervious 16000 SF
Rervious 5000 SF
Weighted "C"
 $(16000)(0.95) + (5000)(0.25) / 21000 = 0.78$

Basin loss rate use 5" in first 30 minutes then 5" per hour.

Time	I	V _m	V _{out}	V _{stored}
0.5	2.6"	3549	1123	2426
1	3.6"	4914	1671	3243
2	4.4"	6006	2784	3222
4	5.3"	7235	5012	2223
6	6.0"	8190	7239	951
12	7.2"	9828	9828	—

Basin Capacity :
(Top area + Bottom area / 2)(Depth)
 $(3346 + 2000 / 2)(1.3) = 3475 \text{ C.F. Capacity}$

- 60 trips per day which should not significantly affect S.E. 4th Street.
- All disturbed areas not sodded shall be fertilized and seeded.
- 40% of this site will be covered by the proposed building.
- 30% of this site will be covered by the proposed paved parking and unloading area.
- Proposed trees shall be 15 gallon size (Min. 8' high)
- The five proposed parking spaces shown will permit a maximum of 10 employees in the largest work shift within this building.
- All stormwater retention basin sideslopes shall be sodded.
- o Indicates proposed Live Oak, Red Maple or Sweet Gum tree to City of Gainesville standards.
- ooo Indicates proposed Viburnum, Pittsoporum or Ligustrum hedge to City of Gainesville standards. (3gallon size 3feet on center)
- Roof stormwater drainage shall be collected within the foundation fill by a 12" dia. PVC drain which will flow at a minimum 1% grade to Stormwater Retention Basin "A". See architects plans for drain detail.

Project No. 8313

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TYPICAL PAVEMENT SECTION

Not to Scale

TYPICAL BASIN SECTION

Not to Scale

TYPICAL SWALE SECTION

Not to Scale

LOCATION MAP

