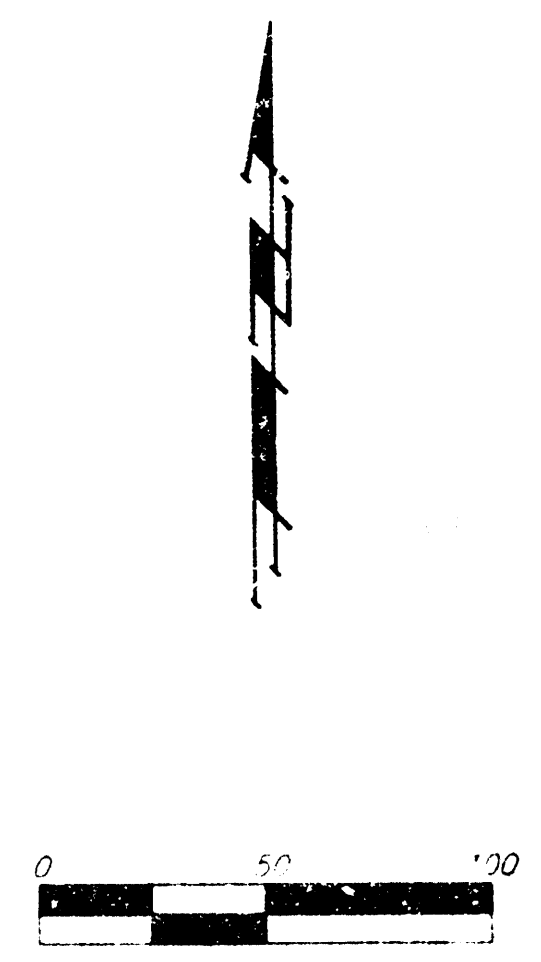


# DRAINAGE PLAN

## HUNTINGTON PARK ADDITION

### WICHITA, SEDGWICK COUNTY, KANSAS



Minimum Pad Elevation for  
Huntington Park Addition  
Lot 1, Block 1  
Min. Pad = 154.0 (City Datum)  
(1341.4 U.S.G.S.)

**Note:**  
Utilities per city records  
(Not Field Verified)

**BENCHMARK**  
City of Wichita benchmark, NW Corner  
intersection of Maize Road and 13th  
Street North, 109.5' north and 71'  
West of center line both 2' east of  
east face walk.

**Huntington Park Addition Drainage**

**Drainage Basin #1**  
Lot 1, Blk. 1 in its entirety will drain towards the north to the Ponderosa Circle right-of-way.  
The runoff will then flow within the right-of-way to Maize Road where it will be intercepted by the  
City of Wichita municipal storm water sewer system.  
Drainage Area = 1.0 acres  
land usage:  
approx. 15% roof top, 40% pavement, and 45% parking lot

| Return Period                                 | 2-yr | 5-yr | 10-yr | 100-yr |
|-----------------------------------------------|------|------|-------|--------|
| Parking lot "C"                               | 0.87 | 0.87 | 0.88  | 0.89   |
| Roof Top "C"                                  | 0.80 | 0.85 | 0.90  | 0.91   |
| Pavement "C"                                  | 0.87 | 0.88 | 0.90  | 0.91   |
| Area Weighted "C"                             | 0.86 | 0.87 | 0.89  | 0.91   |
| Rainfall Intensity,<br>T <sub>r</sub> =15 min | 3.83 | 4.56 | 5.22  | 7.57   |
| Peak Flowrate, cfs                            | 3.29 | 3.97 | 4.65  | 6.71   |

**Drainage Basin #2**  
Lot 2, Blk. 1 will drain south to a storm water sewer inlet located within a 20' drainage easement.  
Runoff from this basin will be transported by a storm water sewer system  
to Reserve "A" of Arlington Place 2nd Addition.  
Drainage Area = 2.2 acres  
land usage: approx. 75% parking, 15% roof top, and 10% urban lawn, hydrologic group C

| Return Period                                 | 2-yr | 5-yr | 10-yr | 100-yr |
|-----------------------------------------------|------|------|-------|--------|
| Parking lot "C"                               | 0.87 | 0.87 | 0.88  | 0.89   |
| Roof Top "C"                                  | 0.80 | 0.85 | 0.90  | 0.91   |
| Urban lawn, Soil<br>Group C                   | 0.26 | 0.29 | 0.37  | 0.53   |
| Area Weighted "C"                             | 0.80 | 0.81 | 0.83  | 0.86   |
| Rainfall Intensity,<br>T <sub>r</sub> =15 min | 3.83 | 4.56 | 5.22  | 7.57   |
| Peak Flowrate, cfs                            | 10.7 | 12.9 | 15.2  | 22.2   |

**Drainage Basin #3**  
Lot 3, Blk. 1, will drain south to a storm water sewer inlet.  
Runoff will be conveyed by an underground storm water sewer to Reserve "A" of Arlington Place 2nd Addition.  
Drainage Area = 6.3 acres  
land use: unspecified multi-family soil group C

| Return Period                                 | 2-yr | 5-yr | 10-yr | 100-yr |
|-----------------------------------------------|------|------|-------|--------|
| Multi-family Soil<br>Group C                  | 0.68 | 0.72 | 0.77  | 0.83   |
| Rainfall Intensity,<br>T <sub>r</sub> =15 min | 3.83 | 4.56 | 5.22  | 7.57   |
| Peak Flowrate, cfs                            | 16.4 | 20.7 | 25.3  | 38.5   |

