

# NEWMARKET V ADDITION

## AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

### DRAINAGE PLAN

NOTE:

Minimum Pad = 167.5 City Datum or 1354.9 NGVD  
Total inflow, Q, into the detention pond is based upon a fully developed basin.

The 7' x 2.5' RCB can only handle a portion of the total flow down the Maize Rd. ditch. Currently the rest of the flow is diverted to the west.

Property is located within a FEMA Flood Zone A.

BFE = ELEVATION: 164.1 CITY DATUM  
1351.5 N.G.V.D.

\*Once a final wetland determination has been done on the property to the west, then the ditch slopes can be adjusted accordingly.

\*\* Total Drainage Area = 670 Acres which drains to 10'x3' & 7'x 2.5' RCB's.

All Elevations in NGVD.

Box Culvert Along Maize Rd. will be installed to meet the requirements of City of Wichita, Traffic Engineering Department.

The drainage plan meets the COE404 Permit Requirements for wetland reduction.

SCALE: 1" = 100'

BENCHMARKS  $\oplus$  BM

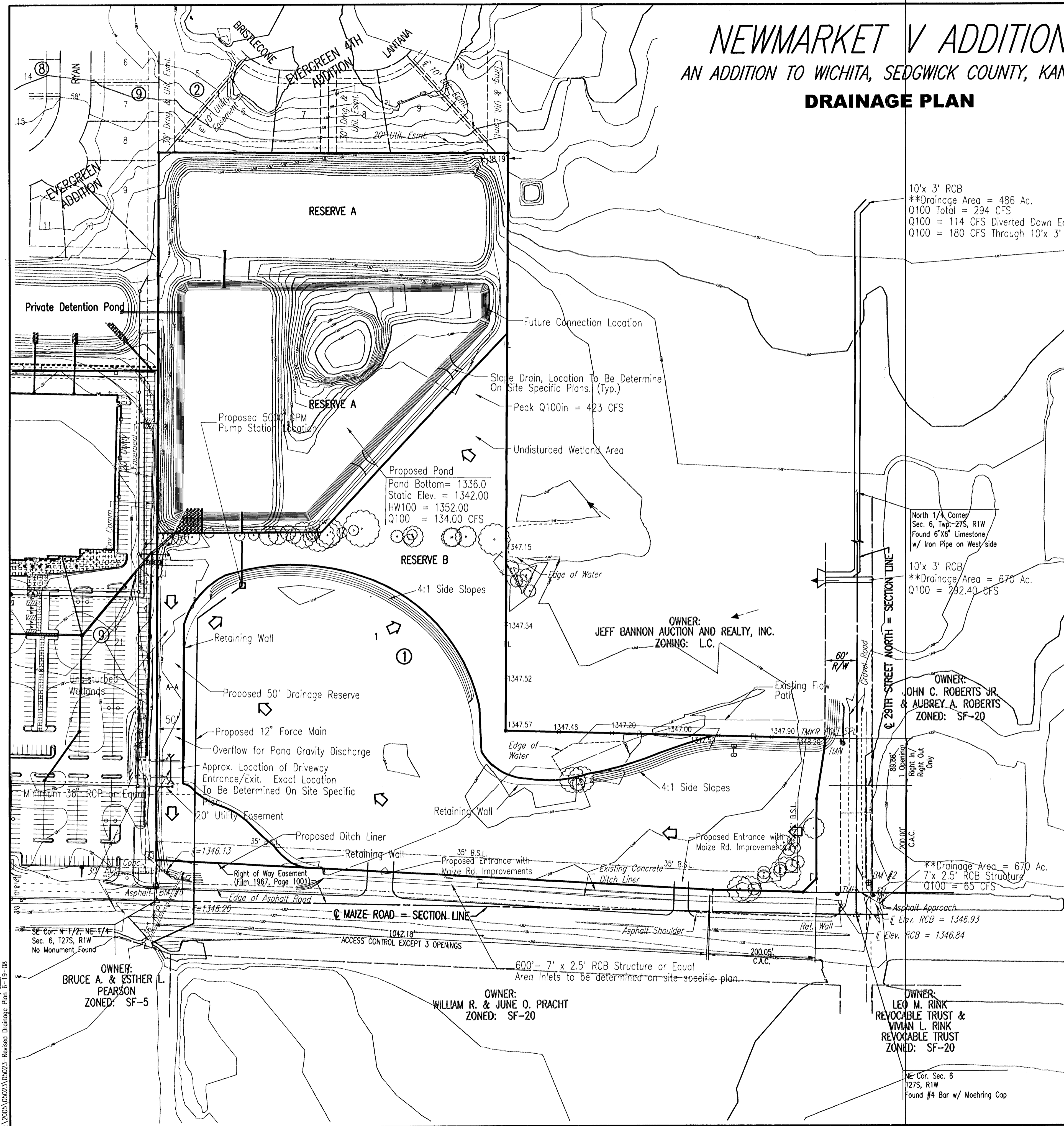
BM #2  
CITY OF WICHITA BM DISC 63.4' WNW OF NE COR., SEC. 6, T27S, R1W

ELEVATION: 161.92 CITY DATUM  
1349.32 N.G.V.D.

BM #6  
CHISELED "d" ON TOP BACK CURB, W. CURB LINE OF MAIZE RD. AT BEGINNING OF CURB  $\pm$  1/4 MILE S. OF 29TH ST. N.

ELEVATION: 164.52 CITY DATUM  
1351.92 N.G.V.D.

Reserve A - Drainage & Storm Water Detention  
Reserve B - Wetland Preservation & Drainage



10' x 3' RCB  
\*\*Drainage Area = 486 Ac.  
Q100 Total = 294 CFS  
Q100 = 114 CFS Diverted Down East Ditch.  
Q100 = 180 CFS Through 10' x 3' RCB.

North 1/4 Corner  
Sec. 6, T27S, R1W  
Found 6" x 6" Limestone  
w/ Iron Pipe on West side  
10' x 3' RCB  
\*\*Drainage Area = 670 Ac.  
Q100 = 292.40 CFS

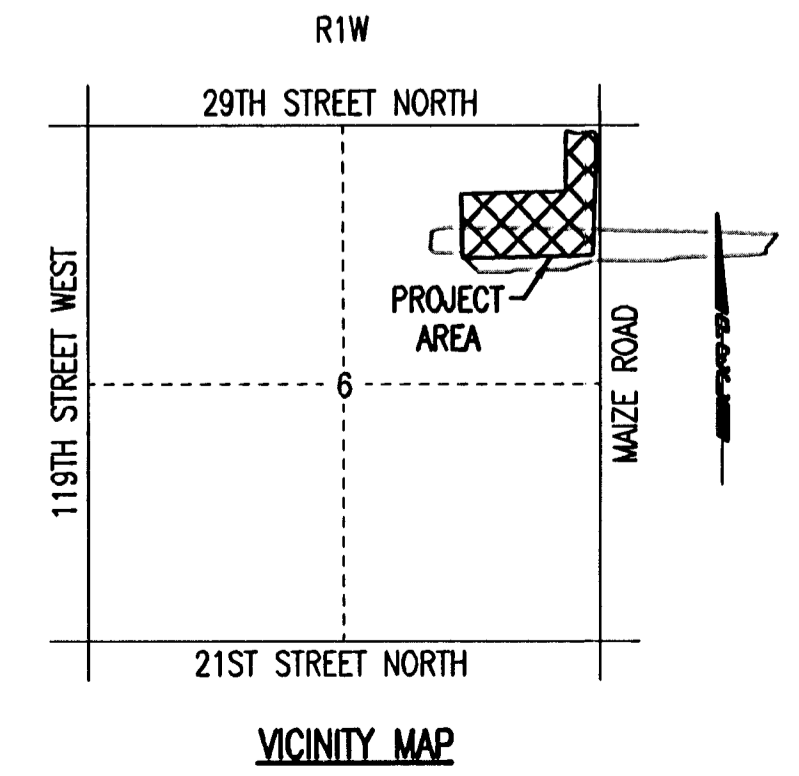
OWNER:  
JOHN C. ROBERTS JR.  
& AUBREY A. ROBERTS  
ZONED: SF-20

\*\*Drainage Area = 670 Ac.  
7' x 2.5' RCB Structure  
Q100 = 65 CFS

OWNER:  
LEO M. RINK  
REVOCABLE TRUST &  
VIVIAN L. RINK  
REVOCABLE TRUST  
ZONED: SF-20

#### LEGEND

- $\circ$  Sign
- $\rightarrow$  Flow Arrow - Very Low Flows
- Flowline Of Ditch
- $\leftarrow$  Flow Arrow - Normal Flows
- Existing Flow Path



Revised 6/19/08

Saved: 06-24-2008 4:14:32 PM by: SRS  
 Plot Scale: 1:100 06-24-2008 4:14:49 PM by: SRS  
 C:\V\05\0602\0602\0602\Revised Drainage Plan 6-19-08