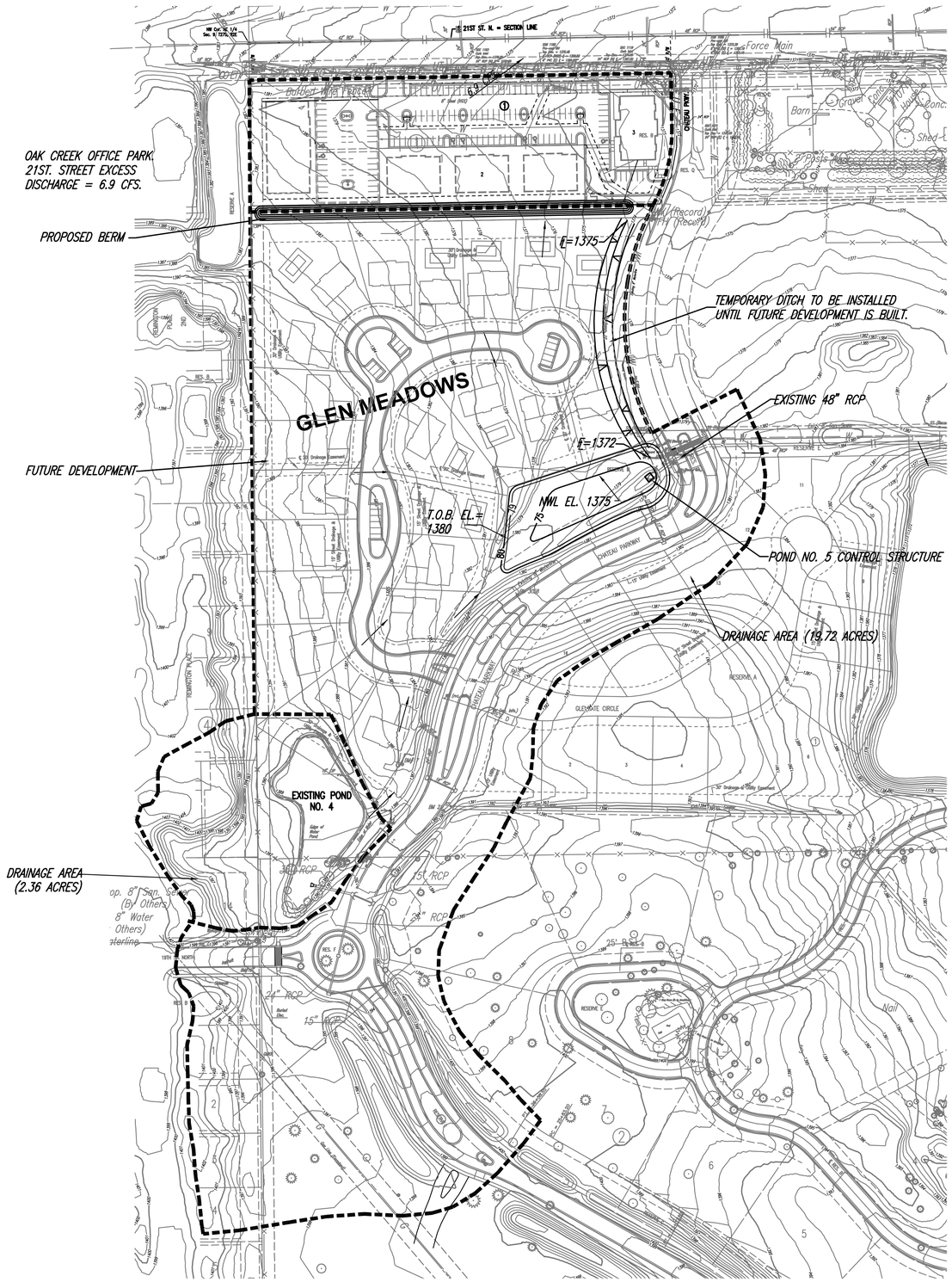
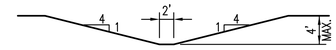
FUTURE OAK CREEK DEVELOPMENT

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS





TEMPORARY DITCH SECTION

0 100 200

SCALE: 1" = 100'

DATE: MAY 20, 2009

DRAINAGE CALCULATIONS

DRAINAGE BASIN = 19.72 AC.

NWL (1375) = 0.264 AC.

T.O.B. (1380) = 0.702 AC.

Pre Tc = 20.2 Minutes
Post Tc = 11 Minutes
H.S.G. = D
Pre CN = 84
Post CN = 86
100 Yr. – 24 Hr. Rainfall = 7.68 Inches
Pre Q_{100} Peak = 139.1 CFS
Post Q_{100} Peak = 162.3 CFS
Allowable Discharge = 139.1 – 6.9 = 132.2 CFS

Pond Peak Discharge Q_{100} = 127.1 CFS

5' X 5' Control Structure with a 5' Weir

POND 5 DHW_{100} = 1379.0

DISCHARGE RATES					
YEAR	2	5	10	25	100
PRE CFS	47.8	66.3	80.4	99.3	132.2
POST CFS	62.4	85.8	103.5	127.0	162.3
WEIR DISCHARGE CFS	46.5	65.4	79.6	98.6	127.1

LEGEND

BASIN BOUNDARY

STORM WATER FLOW DIRECTION

BENCHMARKS

BM 18

CHISELED "d" ON CENTER FACE CURB INLET ON WEST SIDE CHATEAU PARKWAY, 600' SOUTH OF 21ST ST. NORTH NEAR NORTHWEST CORNER GLENGATE WEST PLAT.

ELEV. = 1378.64

BM 21

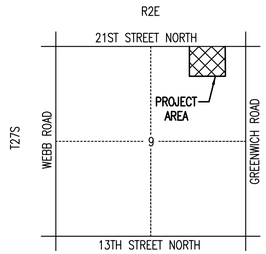
CHISELED "d" ON WEST SIDE OF CONCRETE BASE FOR LIGHT POLE ON EAST SIDE CHATEAU PARKWAY, 1,200'± SOUTH OF 21ST ST. NORTH NEAR SOUTHWEST CORNER GLENGATE WEST PLAT.

ELEV. = 1389.73

BM 3038

CITY DISC ON WEST TOP OF CURB CHATEAU PARKWAY, 165' NORTH OF GLENGATE COURT.

ELEV. = 1384.11



VICINITY MAP

No.	Revision	By	Date

CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

GLEN MEADOWS AT OAK CREEK
REVISED DRAINAGE PLAN

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	JEH	Job No.	36-07761
Drawn by	MJC, AEE	Date	JUNE 2009

Sht. 1 of 1

Saved 06-15-2009 1:28:24 PM by AEE
Plot Scale 1:1 06-15-2009 12:54:59 AM by AARON E. EARLYWINE
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