SKYWAY INDUSTRIAL PARK 2ND

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS
PROPOSED DRAINAGE PLAN (REVISED)

REMOVE EXISTING & REPLACE WITH: 4-18" RCP FL=1319' 23' RECT. WEIR FL=1323.2'

REMOVE EXISTING & REPLACE WITH: 3-12" RCP FL=1317' 11' RECT. WEIR FL=1318'

INSTALL: 24" RCP FL=1319'

200' BERM-LOW SPOT @ ELEV. 1324.62

2-24" CMP E=18.33

NE COR. NW 1/4 SEC. 8, T28S, R1W

2-18" CMP E=15.95

120' BERM-LOW SPOT @ ELEV. 1320.8

℄ 31ST ST. S. = SECTION LINE

31ST ST. S.

NW COR. NW 1/4 SEC. 8, T28S, R1W

WICHITA MID-CONTINENT AIRPORT 6TH ADDITION

LOT 1

POND B
STATIC EL. = 1317.00
100 YR. EL. = 1320.8
T.O.B. = 1321.00

RESERVE B

35' Building Setback

RESERVE A

POND A
STATIC EL. = 1319.00
100 YR. EL. = 1324.60
T.O.B. = 1325.00

BASIN B = 13.93 AC

TYLER ROAD

RES. C

EXIST. 29"X45" RCP Ø1.5% Q= 83 cfs

℄ 60' Drainage Easement

MINIMUM FF ELEVATION = 1326.6

DITCH TO BE A MIN. OF 5' BOTTOM WITH 3:1 SIDE SLOPE

N07°13'E 311.68'

MINIMUM FF ELEVATION = 1326.6'

BASIN TR1 = 2.79 AC

BASIN TR2 = 4.00 AC

TYLER ROAD

BASIN A = 69.31 AC

BASIN C = 10.38 AC

35' Utility Easement & Building Setback

35' Building Setback

MINIMUM FF ELEVATION = 1322.80'

OFFSITE DRAINAGE AREA OF 70.07 ACRES SEE SHEET NO. 3 OF 3

3-30" RCP

℄ 60' Drainage Easement

N87°40'00"E 967.02'

WICHITA MID-CONTINENT AIRPORT 6TH ADDITION

1 LOT 1

BASIN E = 19.58 AC

POND E
STATIC EL. = 1322.00
100 YR. EL. = 1325.30
T.O.B. = 1326.00

50' BERM-LOW SPOT @ ELEV. 1325.60

20' X 40' Drainage Easement By Separate Instrument

INSTALL: 2-12" RCP FL=1322' 3-18" RCP FL=1322.6'

℄ MAIZE RD. = SECTION LINE

35' Building Setback

BASIN TR3 = 2.10 AC

BASIN TR4 = 2.19 AC

MINIMUM FF ELEVATION = 1327.30'

BASIN D = 22.11 AC

RESERVE E

MINIMUM FF ELEVATION = 1329.70'

POND D
STATIC EL. = 1325.00
100 YR. EL. = 1327.70
T.O.B. = 1328.50

20' Utility Easement

Utility & Access Easement

OWNER: SEDGWICK COUNTY UNPLATTED ZONED: SF-5

OWNER: SEDGWICK COUNTY UNPLATTED ZONED: SF-5

OWNER: SEDGWICK COUNTY UNPLATTED ZONED: SF-5

MARTIN D. & ELSIE L MAY UNPLATTED ZONED: SF-5

SOUTHWEST BLVD. (HWY. K-42)

DUGAN INDUSTRIAL THIRD ADDITION

1 PART OF LOT 2

20' Utility Easement

35' Bldg. Setback

RESERVE D

℄ 20' Utility Easement

SW COR. NW 1/4 SEC. 8, T28S, R1W

EXIST. 42" RCP @ 0.40% Q=65 cfs

SE COR. NW 1/4 SEC. 8, T28S, R1W

DUGAN INDUSTRIAL SECOND ADDITION

1 PART OF LOT 2

OWNER: JOHN E. DUGAN UNPLATTED ZONED: SF-5

OWNER: JIM BARR UNPLATTED ZONED: SF-5

OWNER: DUANE & DONNA EARLESS TRUST UNPLATTED ZONED: SF-5

PAULY FAMILY REVOCABLE TRUST UNPLATTED ZONED: SF-5

RICHARD O. & FRANCES SEELY TRUST UNPLATTED ZONED: SF-5

50' BERM-LOW SPOT @ ELEV. 1328.06

INSTALL: 18" RCP AREA INLET FL=1325'

INSTALL: 2-18" RCP FL=1325' 12' RECT. WEIR FL=1327.4'

BASIN DISCHARGE, CFS

TYPE	2 YR. STORM	5 YR. STORM	10 YR. STORM	25 YR. STORM	100 YR. STORM
PRE & POST DEVELOPMENT BASIN A OFFSITE	22.8	40.1	54.6	75.3	108.2
PRE-DEVELOPMENT BASIN A	44.9	74.9	119.8	161.9	271.3
POST-DEVELOPMENT BASIN A	106.4	159.0	206.4	263.7	349.2
PRE-DEVELOPMENT BASIN B	12.6	20.2	30.9	40.2	67.0
POST-DEVELOPMENT BASIN B	34.7	44.5	54.0	65.7	83.7
PRE-DEVELOPMENT BASIN C	16.6	23.7	32.4	40.8	62.7
POST-DEVELOPMENT BASIN C	31.6	40.7	48.9	59.9	76.2
PRE-DEVELOPMENT BASIN D	12.4	20.8	33.7	44.4	78.0
POST-DEVELOPMENT BASIN D	41.5	53.3	64.9	74.9	101.7
PRE-DEVELOPMENT BASIN E	13.8	22.9	36.9	48.5	84.6
POST-DEVELOPMENT BASIN E	44.9	57.6	70.1	85.7	109.6
PRE & POST DEVELOPMENT BASIN TR-1	5.6	7.7	9.2	11.8	14.4
PRE & POST DEVELOPMENT BASIN TR-2	7.8	10.7	13.0	16.0	20.5

POND DISCHARGE, CFS

TYPE	2 YR. STORM	5 YR. STORM	10 YR. STORM	25 YR. STORM	100 YR. STORM
PRE-DEVELOPMENT POND A	67.7	115.0	174.4	237.2	379.5
POST-DEVELOPMENT POND A	29.4	42.8	52.3	65.9	117.2
PRE-DEVELOPMENT POND B	42.6	62.3	85.5	108.8	164.6
POST-DEVELOPMENT POND B	33.7	48.1	54.7	70.2	88.2
PRE-DEVELOPMENT POND D	12.4	20.8	33.7	44.4	78.0
POST-DEVELOPMENT POND D	5.6	9.6	12.8	16.4	21.8
PRE-DEVELOPMENT BASIN E	13.8	22.9	36.9	48.5	84.6
POST-DEVELOPMENT BASIN E	9.6	17.5	24.7	32.6	42.1

FLOWS COMPUTED BY HEC-HMS. SEE DRAINAGE REPORT FOR COMPUTATIONS.

SCALE: 1" = 100'

● = 1/2" REBAR W/PEC CAP UNLESS OTHERWISE NOTED

△ = SECTION CORNER

BENCHMARKS @ BM

BM #50

A CITY OF WICHITA BRASS DISC LOCATED 50.0 FEET SE. OF THE N 1/4 CORNER OF SECTION 8, T28S, R1W.

ELEV. 1318.06 NAVD 88

BM #51

A CHISELED SQUARE ON THE SOUTHWEST END OF A CONCRETE CULVERT LOCATED ON THE NORTH SIDE OF 31ST S. AND OLD TYLER RD.

ELEV. 1313.31 NAVD 88

BM #52

A CHISELED SQUARE ON THE CENTER SOUTH CONCRETE HEADWALL OF A RCB LOCATED 335 FEET WEST MAIZE RD. ON THE SOUTH SIDE OF 31ST ST. SOUTH

ELEV. 1331.82 NAVD 88

Tc Drainage Path

Basin Boundary

Flow Line

Berm

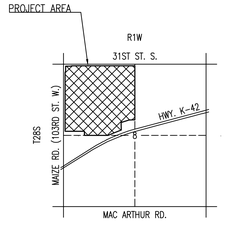
DATE OF PREPARATION: AUGUST 2009

TOPOGRAPHIC SURVEY: MARCH 2009

OWNER: CITY OF WICHITA
455 N. MAIN
WICHITA, KS 67202

SUBDIVIDER: PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 S. TOPEKA
WICHITA, KS 67202

PROJECT AREA



SHEET NO 2 OF 3

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

PLOT TIME ** 11:00 ** DATE 09-29-2009 7:54:49 PM
Q:\2009\09162\09162 Proposed Drainage Map(Revised) by MJC