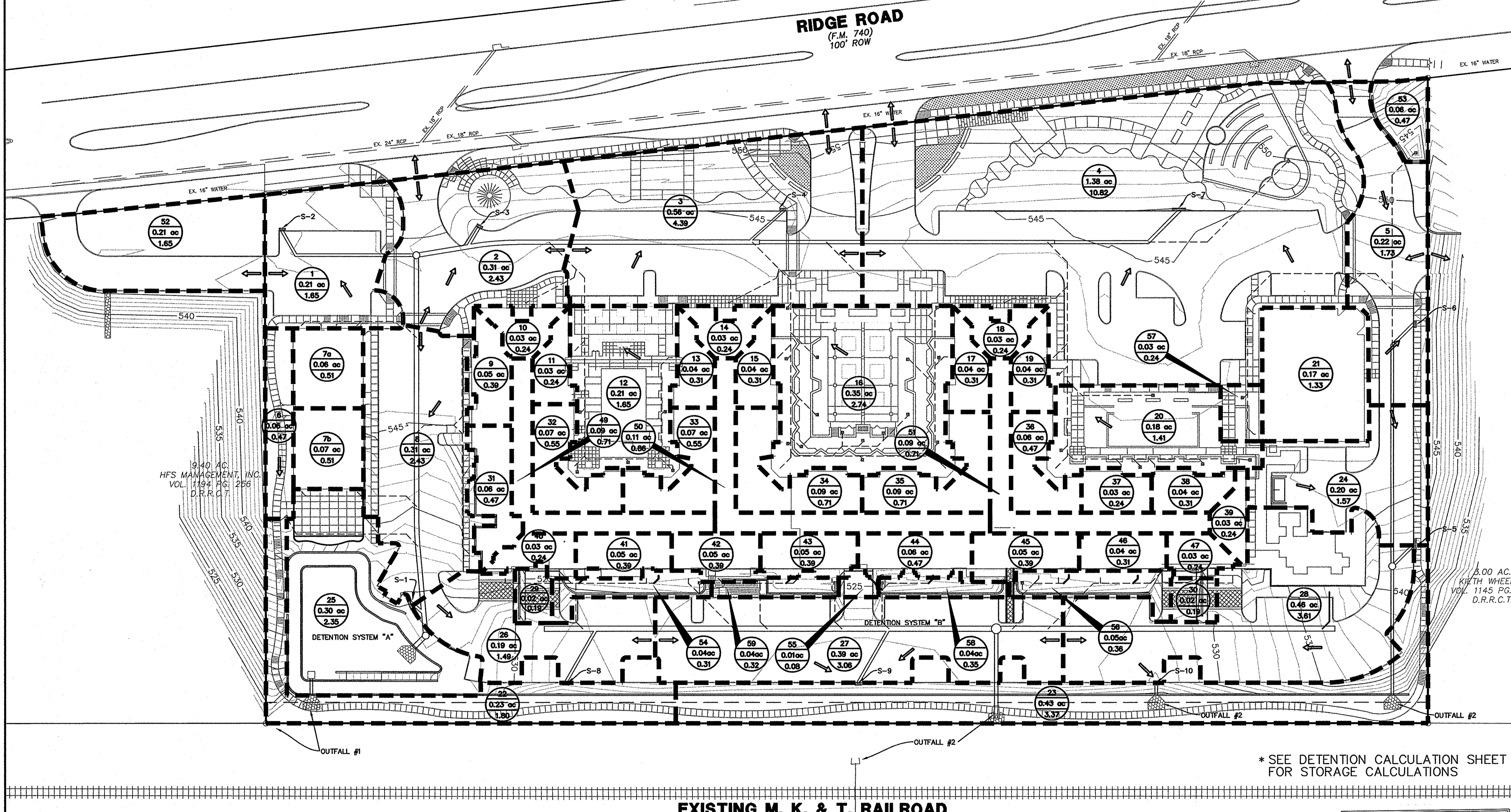
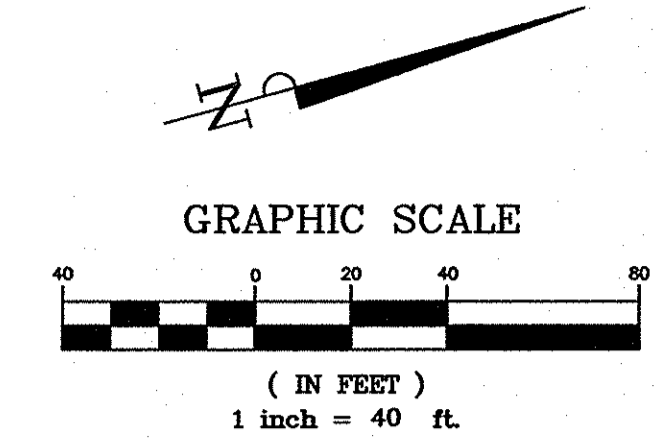


LEGEND

- DRAINAGE AREA DIVIDE
- PROPOSED STORM SEWER LINE & INLET
- EXISTING STORM SEWER LINE & INLET
- FLOW ARROWS
- DRAINAGE AREA
- ACRES
- Q100



DRAINAGE AREA RUNOFF CALCULATIONS

DRAINAGE AREA NO.	AREA (ac)	C (coeff.)	tc (min)	I100 (in/hr)	Q100 (cfs)
1	0.21	0.80	10	9.8	1.65
2	0.31	0.80	10	9.8	2.43
3	0.56	0.80	10	9.8	4.39
4	1.38	0.80	10	9.8	10.82
20	0.18	0.80	10	9.8	1.41
39	0.03	0.80	10	9.8	0.24
38	0.04	0.80	10	9.8	0.31
37	0.03	0.80	10	9.8	0.24
36	0.06	0.80	10	9.8	0.47
19	0.04	0.80	10	9.8	0.31
18	0.03	0.80	10	9.8	0.24
51	0.09	0.80	10	9.8	0.71
17	0.04	0.80	10	9.8	0.31
35	0.09	0.80	10	9.8	0.71
34	0.09	0.80	10	9.8	0.71
50	0.11	0.80	10	9.8	0.86
16	0.35	0.80	10	9.8	2.74
15	0.04	0.80	10	9.8	0.31
14	0.03	0.80	10	9.8	0.24
13	0.04	0.80	10	9.8	0.31
33	0.07	0.80	10	9.8	0.55
12	0.21	0.80	10	9.8	1.65
32	0.07	0.80	10	9.8	0.55
49	0.09	0.80	10	9.8	0.71
11	0.03	0.80	10	9.8	0.24
10	0.03	0.80	10	9.8	0.24
9	0.05	0.80	10	9.8	0.39
8	0.31	0.80	10	9.8	2.43
7a	0.06	0.80	10	9.8	0.51
7b	0.07	0.80	10	9.8	0.51
6	0.06	0.80	10	9.8	0.47
31	0.06	0.80	10	9.8	0.47
25	0.30	0.80	10	9.8	2.35
Detention System "A"					40.48
26	0.19	0.80	10	9.8	1.49
29	0.02	0.80	10	9.8	0.19
40	0.03	0.80	10	9.8	0.24
41	0.05	0.80	10	9.8	0.39
42	0.05	0.80	10	9.8	0.39
43	0.05	0.80	10	9.8	0.39
44	0.06	0.80	10	9.8	0.47
45	0.05	0.80	10	9.8	0.39
46	0.04	0.80	10	9.8	0.31
47	0.03	0.80	10	9.8	0.24
30	0.02	0.80	10	9.8	0.19
54	0.04	0.80	10	9.8	0.31
55	0.01	0.80	10	9.8	0.08
56	0.05	0.80	10	9.8	0.36
58	0.04	0.80	10	9.8	0.35
59	0.04	0.80	10	9.8	0.32
27	0.39	0.80	10	9.8	3.06
Detention System "B"					9.17
22	0.23	0.80	10	9.8	1.80
To Outfall #1 (Undetained)					1.80
53	0.06	0.80	10	9.8	0.47
5	0.22	0.80	10	9.8	1.73
57	0.03	0.80	10	9.8	0.24
21	0.17	0.80	10	9.8	1.33
24	0.20	0.80	10	9.8	1.57
28	0.46	0.80	10	9.8	3.61
23	0.43	0.80	10	9.8	3.37
To Outfall #2 (Undetained)					12.32

* SEE DETENTION CALCULATION SHEET FOR STORAGE CALCULATIONS

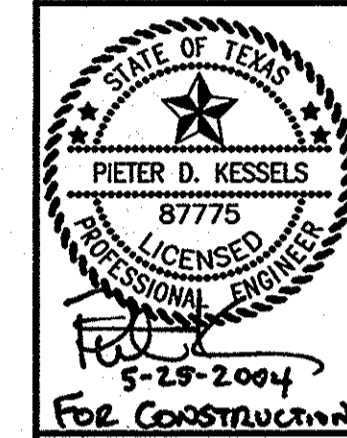
RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

BENCHMARKS:
ROCKWALL MONUMENT R500-1: CONC. MONUMENT IN CENTER MEDIAN OF SUMMIT RIDGE DRIVE, WEST OF RIDGE RD.
ELEV: 578.63
"I" SET IN MEDIAN NOSE RIDGE ROAD ±193 FEET SOUTH OF SW PROPERTY CORNER.
ELEV: 546.15
"I" SET ON INLET WEST CURB LINE RIDGE ROAD, ±155 SOUTH OF NW PROPERTY CORNER
ELEV: 553.07

INLET DESIGN CALCULATIONS

INLET		AREA RUNOFF Q = CIA					SELECTED INLET					
No.	Drainage Area #	Design Storm Frequency (yrs.)	Time of Conc. (min.)	Intensity "I" (inches/hr.)	Runoff Coeff. "C"	Area (ac.)	"Q100" (c.f.s.)	Carryover from Upstream Inlet (c.f.s.)	Total Gutter Flow (c.f.s.)	Length "L" (feet)	Type	Inlet Capacity (c.f.s.)
S-1	DA #8	100	10	9.8	0.80	0.31	2.43	0	2.43	10	C.I.	5.4
S-2	DA #1	100	10	9.8	0.80	0.21	1.65	0	1.65	5	C.I.	8.7
S-3	DA #2	100	10	9.8	0.80	0.31	2.43	0	2.43	5	C.I.	8.7
S-4	DA #3	100	10	9.8	0.80	0.56	4.39	0	4.39	5	C.I.	8.7
S-5	DA #24	100	10	9.8	0.80	0.20	1.57	0	1.57	10	C.I.	5.4
S-6	DA #5	100	10	9.8	0.80	0.22	1.73	0	1.73	5	C.I.	8.7
S-7	DA #4	100	10	9.8	0.80	1.38	10.82	0	10.82	10	C.I.	17.8
S-8	DA #26	100	10	9.8	0.80	0.19	1.49	0	1.49	5	C.I.	8.7
S-9	DA #27	100	10	9.8	0.80	0.39	3.06	0	3.06	5	C.I.	8.7
S-10	DA #28	100	10	9.8	0.80	0.46	3.61	0	3.61	5	C.I.	8.7

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Tel. No. (972) 335-3550
Fax No. (972) 335-3779
9300 Wade Boulevard, Suite 320
Frisco, Texas 75035



ROCKWALL COMMONS MIXED USE TRACT
CITY OF ROCKWALL, TEXAS

DRAINAGE AREA MAP

Scale: AS SHOWN
Designed by: P.D.K.
Drawn by: C.D.R.
Checked by: P.D.K.
Date: 05/25/04
Project No. 067051007