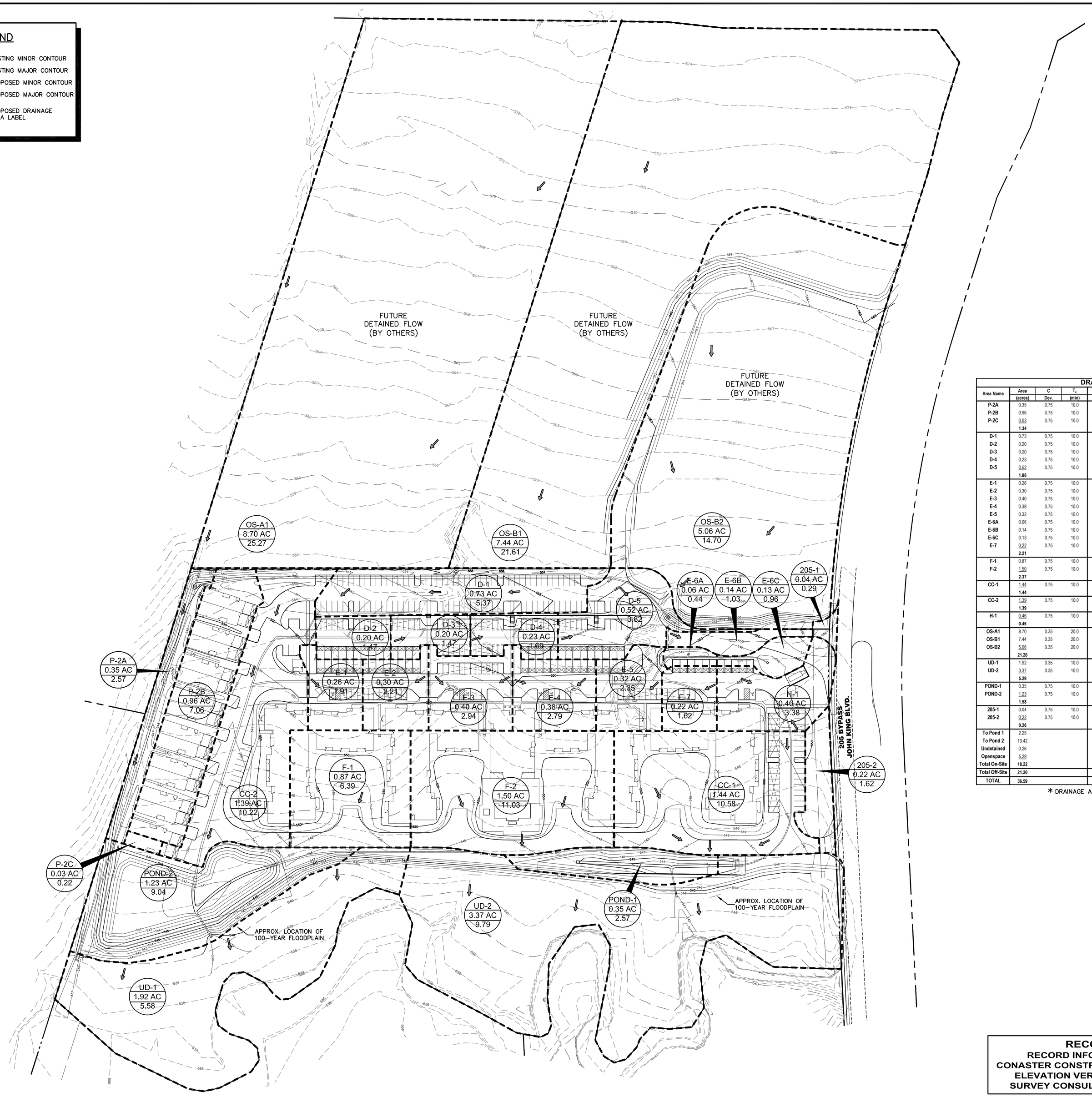
LEGEND

- 536 — EXISTING MINOR CONTOUR
- 535 — EXISTING MAJOR CONTOUR
- 536 — PROPOSED MINOR CONTOUR
- 535 — PROPOSED MAJOR CONTOUR
- A / 5.3 AC / 2.13 — PROPOSED DRAINAGE AREA LABEL Q_{100}



TOCS
1-800-245-4545
txticket@1-call.com

GRAPHIC SCALE
80 0 40 80
(IN FEET)
1 inch = 80 ft.

DRAINAGE CALCULATIONS - DEVELOPED - ONSITE

Area Name	Area (acres)	C Dev.	T_c (min)	Design Storm (yr)	"K"	I10 (in/hr)	Q10 (cfs)	Design Storm (yr)	"K"	I100 (in/hr)	Q100 (cfs)	Inlet Number
P-2A	0.35	0.75	10.0	10	1.00	7.25	1.90	100	1.000	9.80	2.57	Swale to Pond #2
P-2B	0.96	0.75	10.0	10	1.00	7.25	5.22	100	1.000	9.80	7.06	Swale to Pond #2
P-2C	0.03	0.75	10.0	10	1.00	7.25	0.16	100	1.000	9.80	0.22	Sheetflow to Pond #2
	1.34						7.29				9.85	
D-1	0.73	0.75	10.0	10	1.00	7.25	3.97	100	1.000	9.80	5.37	D-1
D-2	0.20	0.75	10.0	10	1.00	7.25	1.09	100	1.000	9.80	1.47	D-2
D-3	0.20	0.75	10.0	10	1.00	7.25	1.09	100	1.000	9.80	1.47	D-3
D-4	0.23	0.75	10.0	10	1.00	7.25	1.25	100	1.000	9.80	1.69	D-4
D-5	0.52	0.75	10.0	10	1.00	7.25	2.83	100	1.000	9.80	3.82	D-5
	1.88						10.22				13.82	
E-1	0.26	0.75	10.0	10	1.00	7.25	1.41	100	1.000	9.80	1.91	E-1
E-2	0.30	0.75	10.0	10	1.00	7.25	1.63	100	1.000	9.80	2.21	E-2
E-3	0.40	0.75	10.0	10	1.00	7.25	2.18	100	1.000	9.80	2.94	E-3
E-4	0.38	0.75	10.0	10	1.00	7.25	2.07	100	1.000	9.80	2.79	E-4
E-5	0.32	0.75	10.0	10	1.00	7.25	1.74	100	1.000	9.80	2.35	E-5
E-6A	0.06	0.75	10.0	10	1.00	7.25	0.33	100	1.000	9.80	0.44	E-6A
E-6B	0.14	0.75	10.0	10	1.00	7.25	0.76	100	1.000	9.80	1.03	E-6B
E-6C	0.13	0.75	10.0	10	1.00	7.25	0.71	100	1.000	9.80	0.96	E-6C
E-7	0.22	0.75	10.0	10	1.00	7.25	1.20	100	1.000	9.80	1.62	E-7
	2.21						12.02				16.24	
F-1	0.87	0.75	10.0	10	1.00	7.25	4.73	100	1.000	9.80	6.39	F-1
F-2	1.50	0.75	10.0	10	1.00	7.25	8.16	100	1.000	9.80	11.03	F-2
	2.37						12.89				17.42	
CC-1	1.44	0.75	10.0	10	1.00	7.25	7.83	100	1.000	9.80	10.58	Curb Cut #1
	1.44						7.83				10.58	
CC-2	1.39	0.75	10.0	10	1.00	7.25	7.56	100	1.000	9.80	10.22	Curb Cut #2
	1.39						7.56				10.22	
H-1	0.46	0.75	10.0	10	1.00	7.25	2.50	100	1.000	9.80	3.38	H-2
	0.46						2.50				3.38	
OS-A1	8.70	0.35	20.0	10	1.00	6.90	21.01	100	1.000	8.30	25.27	A-1
OS-B1	7.44	0.35	20.0	10	1.00	6.90	17.97	100	1.000	8.30	21.61	B-1
OS-B2	5.06	0.35	20.0	10	1.00	6.90	12.22	100	1.000	8.30	14.70	B-2
	21.20						51.20				61.59	
UD-1	1.92	0.35	10.0	10	1.00	7.25	4.87	100	1.000	8.30	5.58	Buffalo Creek
UD-2	3.37	0.35	10.0	10	1.00	7.25	8.55	100	1.000	8.30	9.79	Buffalo Creek
	5.29						13.42				15.37	
POND-1	0.35	0.75	10.0	10	1.00	7.25	1.90	100	1.000	9.80	2.57	Pond #1
POND-2	1.23	0.75	10.0	10	1.00	7.25	6.69	100	1.000	9.80	9.04	Pond #2
	1.58						8.59				11.61	
205-1	0.04	0.75	10.0	10	1.00	7.25	0.22	100	1.000	9.80	0.29	John King Blvd
205-2	0.22	0.75	10.0	10	1.00	7.25	1.20	100	1.000	9.80	1.62	John King Blvd
	0.26						1.41				1.91	
To Pond 1	2.25						12.23				16.54	
To Pond 2	10.42						44.64				76.59	
Undetained	0.26						1.41				1.91	
Openspace	5.29						13.42				15.37	
Total On-Site	18.22						71.71				110.40	
Total Off-Site	21.20						51.20				61.59	
TOTAL	36.59						119.54				151.19	

* DRAINAGE AREAS UD-1 AND UD-2 DEDICATED AS OPEN SPACE ON FINAL PLAT.

STATE OF TEXAS
ROBERT K. MANAOIS
86508
LICENSED
PROFESSIONAL ENGINEER

RECORD DRAWING
RECORD INFORMATION PROVIDED BY CONASTER CONSTRUCTION, FORT WORTH, TEXAS ELEVATION VERIFICATION PERFORMED BY SURVEY CONSULTANTS, INC., PLANO, TEXAS

REV.	DATE	REMARKS	BY

DRAINAGE AREA MAP

MANSIONS SENIOR

CITY of ROCKWALL, TEXAS

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CHECKED	DESIGN	DRAWN	JOB	DATE	SCALE	SHEET
RKM	JRY	JRY	1026-005	02/18/09	1"=80'	6 OF 20

MANSIONS SENIOR, RKMCE PROJECT # 1026-005