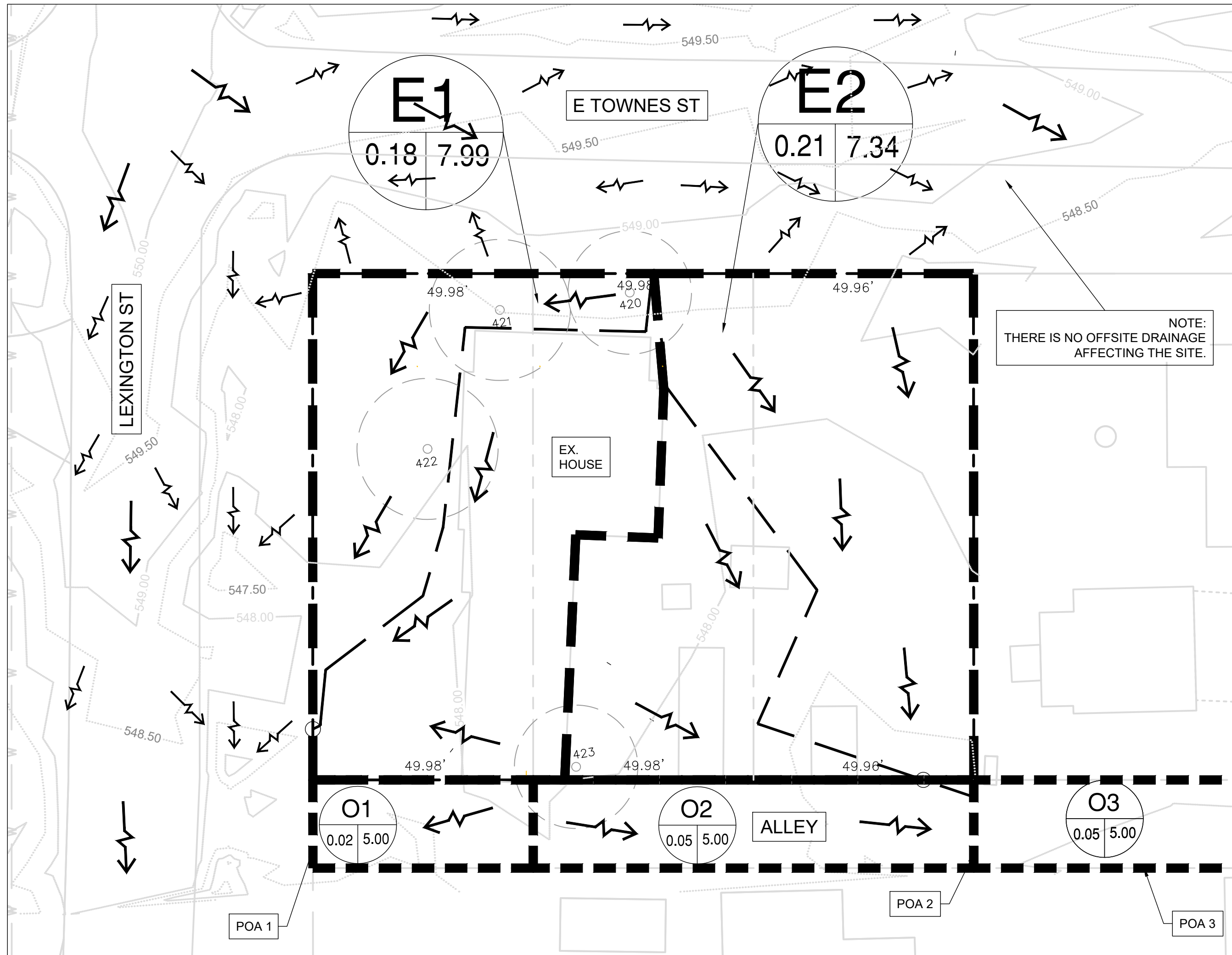
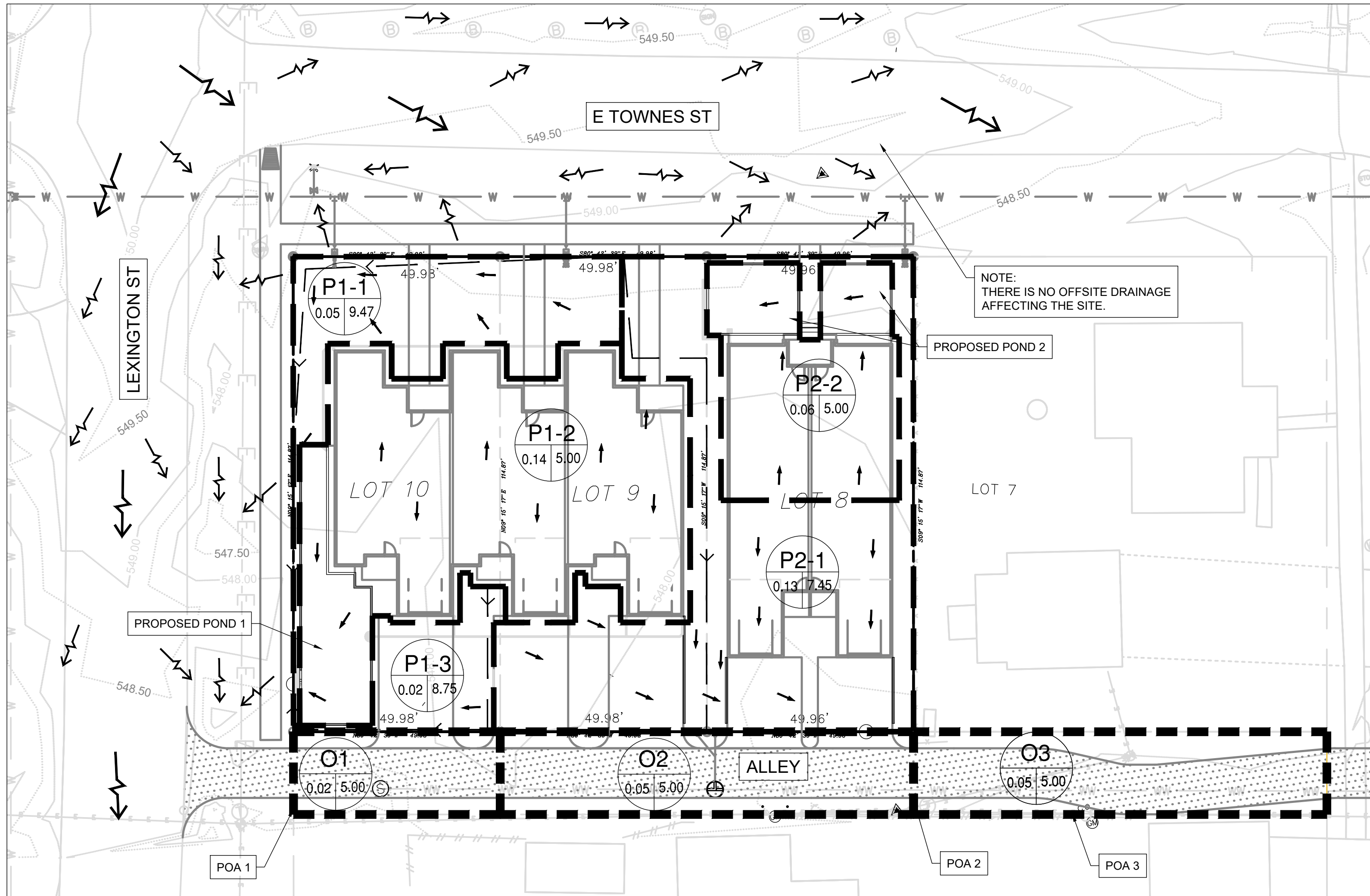




EXISTING CONDITIONS



PROPOSED CONDITIONS

Marie							
104 Townes St							
Travis County, Texas							
Sub-Area Time of Concentration Details							
Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)

E1							
SHEET	100	0.0079	0.150				0.207
SHALLOW	58	0.0046	0.050				0.015
						Time of Concentration	.222
=====							
E2							
SHEET	100	0.0105	0.150				0.185
SHALLOW	56	0.0026	0.050				0.019
						Time of Concentration	.204
=====							
P1-1							
SHEET	100	0.0051	0.150				0.247
SHALLOW	75	0.0066	0.050				0.016
						Time of Concentration	.263
=====							
P1-2							
						Time of Concentration	<undef>
=====							
P1-3							
SHEET	93	0.0046	0.150				0.243
						Time of Concentration	.243
=====							
P2-1							
SHEET	100	0.0089	0.150				0.198
SHALLOW	33	0.0036	0.050				0.009
						Time of Concentration	.207
=====							
P2-2							
						Time of Concentration	<undef>
=====							

WinTR-55, Version 1.00.10

Page 1

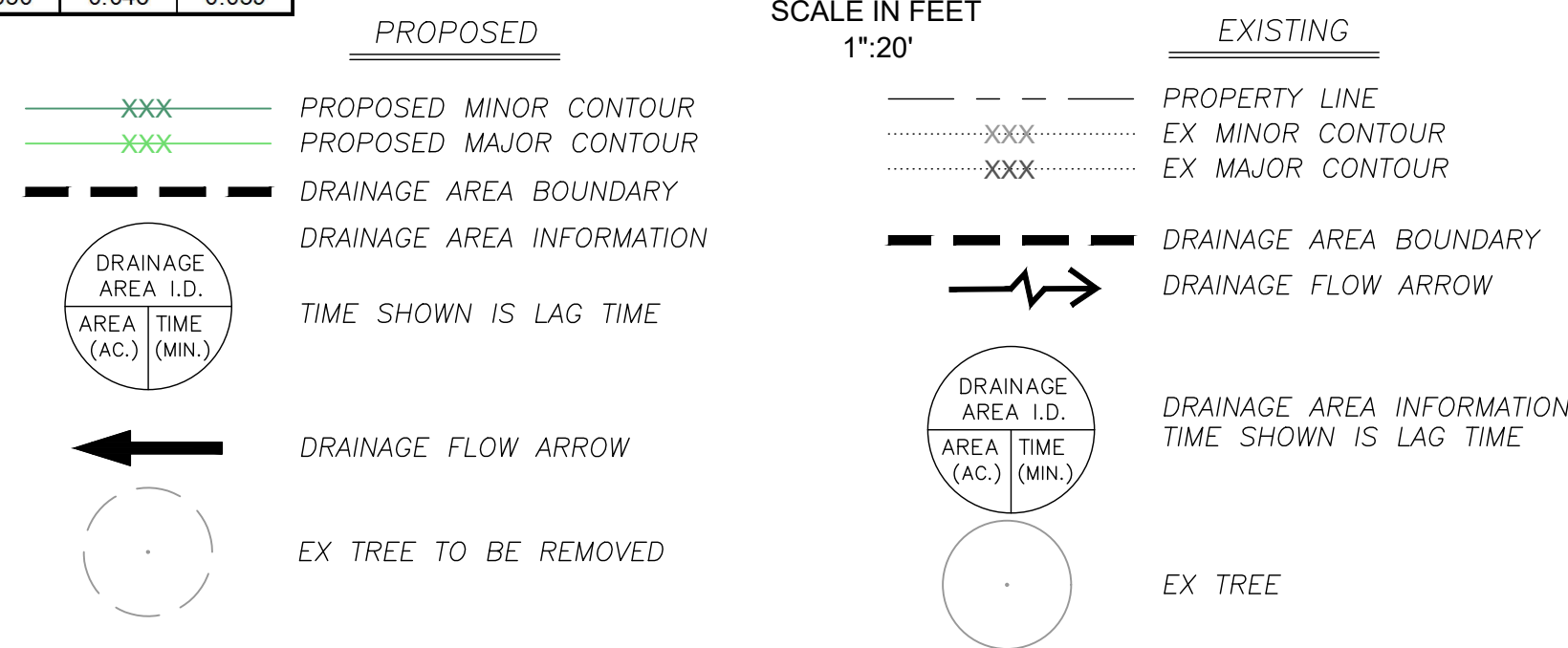
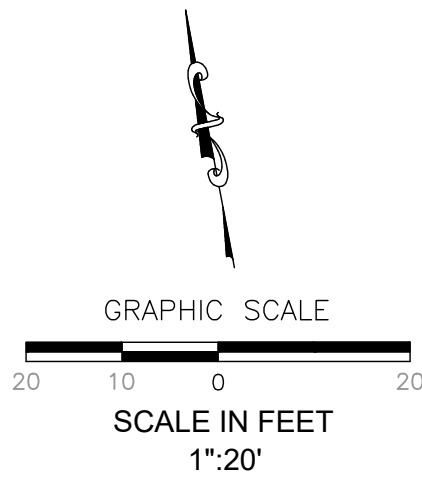
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104 TOWNES ST																
HEC-HMS OUTPUTS																
DRAINAGE SUMMARY TABLE																
EXISTING CONDITIONS																
Drainage Area	Tc (hr)	Tlag (hr)	Area (S.F.)	Area (Acres)	Area (Sq.Miles)	Cover Type	Hyd. Cond.	Soil type	Hyd. Gp.	Imp. Cover (s.f.)	Imp. Cover (%)	CN (Soil)	CN (IC)	Total CN	Q2 (cfs)	Q5 (cfs)
E1	0.222	0.133	7924.15	0.18	0.00028	Grass/IC	GOOD	HnB	D	3356	42.4%	80	98	87.62	0.63	0.85
E2	0.204	0.122	9297.00	0.21	0.00033	Grass/IC	GOOD	HnB	D	633	6.8%	80	98	81.23	0.62	0.89
O1	0.100	0.060	999.60	0.02	0.00004	Grass/IC	GOOD	HnB	D	0.00	0.0%	80	98	80.00	0.08	0.12
O2	0.100	0.060	1998.86	0.05	0.00007	Grass/IC	GOOD	HnB	D	0.00	0.0%	80	98	80.00	0.14	0.21
O3	0.100	0.060	1998.52	0.05	0.00007	Grass/IC	GOOD	HnB	D	0.00	0.0%	80	98	80.00	0.14	0.21
POA1															0.71	0.96
POA2															0.76	1.08
POA3															0.14	0.21
104 TOWNES ST																
HEC-HMS OUTPUTS																
DRAINAGE SUMMARY TABLE																
PROPOSED CONDITIONS																
Drainage Area	Tc (hr)	Tlag (hr)	Area (S.F.)	Area (Acres)	Area (Sq.Miles)	Cover Type	Hyd. Cond.	Soil type	Hyd. Gp.	Imp. Cover (s.f.)	Imp. Cover (%)	CN (Soil)	CN (IC)	Total CN	Q2 (cfs)	Q5 (cfs)
P1-1	0.263	0.158	2186.91	0.05	0.000078	Grass/IC	GOOD	HnB	D	311.59	14.2%	80	98	82.56	0.14	0.20
P1-2	0.000	0.000	6073.98	0.14	0.000218	Grass/IC	GOOD	HnB	D	5195.04	85.4%	80	98	95.40	0.70	0.88
P1-3	0.243	0.146	913.77	0.02	0.000033	Grass/IC	GOOD	HnB	D	509.21	55.7%	80	98	90.03	0.08	0.10
P2-1	0.207	0.124	5637.34	0.13	0.000202	Grass/IC	GOOD	HnB	D	3319.63	58.9%	80	98	90.60	0.50	0.66
P2-2	0.000	0.000	2408.94	0.06	0.000086	Grass/IC	GOOD	HnB	D	1825.33	75.8%	80	98	93.64	0.28	0.36
O1	0.100	0.060	999.60	0.02	0.000036	Grass/IC	GOOD	HnB	D	688.23	68.9%	80	98	92.39	0.12	0.16
O2	0.100	0.060	1998.86	0.05	0.000072	Grass/IC	GOOD	HnB	D	1499.93	75.0%	80	98	93.51	0.22	0.28
O3	0.100	0.060	1998.52	0.05	0.000072	Grass/IC	GOOD	HnB	D	1205.94	60.3%	80	98	90.86	0.20	0.27
Pond 1															0.30	0.48
Pond 2															0.02	0.03
POA1															0.56	0.87
POA2															0.73	0.94
POA3															0.20	0.27
														Runoff Decrease @ POA 1 =	0.143	0.085
														Runoff Decrease @ POA 2 =	0.030	0.139
														Runoff Increase @ POA 3 =	0.060	0.059

EXISTING POA1 PROPOSED POA1 EXCEEDANCES			
2-YR	0.707	0.564	0.143
5-YR	0.955	0.870	0.085
10-YR	1.220	1.182	0.038
25-YR	1.558	1.542	0.016
50-YR	1.745	1.731	0.014
100-YR	2.095	2.094	0.001

EXISTING POA2 PROPOSED POA2 EXCEEDANCES			
2-YR	0.755	0.725	0.030
5-YR	1.078	0.939	0.139
10-YR	1.432	1.169	0.263
25-YR	1.885	1.457	0.428
50-YR	2.139	1.617	0.522
100-YR	2.612	1.918	0.694

EXISTING POA3 PROPOSED POA3 EXCEEDANCES			
2-YR	0.144	0.204	-0.060
5-YR	0.207	0.266	-0.059
10-YR	0.277	0.333	-0.056
25-YR	0.367	0.417	-0.050
50-YR	0.417	0.463	-0.046
100-YR	0.512	0.551	-0.039



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AUSTIN, TEXAS 78748 (512) 368-5251 TEL. F-16504

DRAINAGE PLAN
104 TOWNES TOWNHOMES
104 TOWNES ST
MANOR, TEXAS 78653

REVISION/CORRECTION		DATE
NO.		

DATE: 11/14/2025
FILE: 104 TOWNES ST
DRAWN: M.V.
SHEET