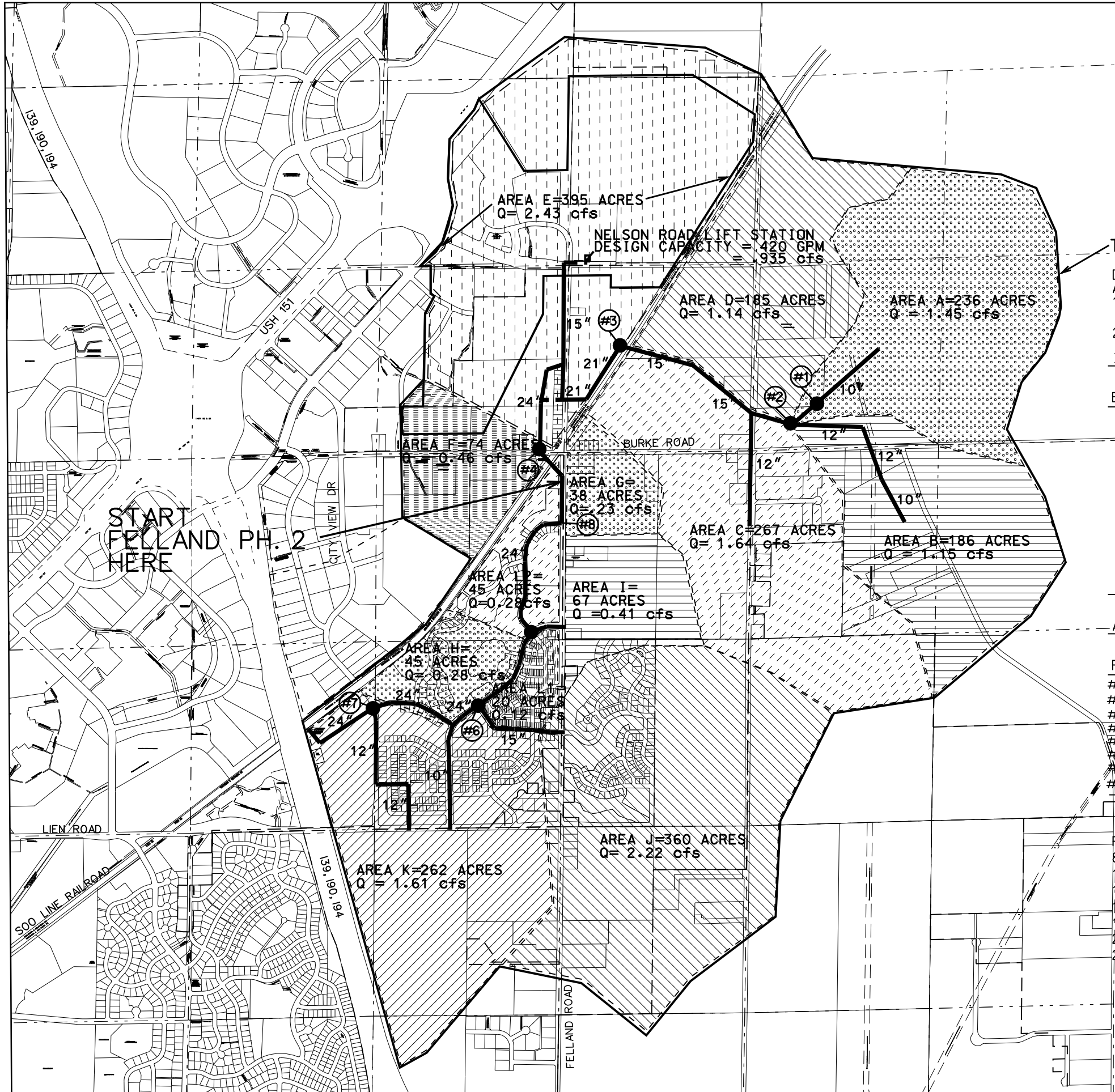


BASINS/ PIPE SIZING

LEGEND

SCALE: 1"=1500'



TOTAL BASIN AREA = 2180 ACRES

Design Flow: 13.43 cfs
Area = 2180 ACRES, 10 PEOPLE/ ACRES,
100 gpd/person, Peaking Factor 4

24" @ 0.185%, n=.011, Qcap=11.53 cfs

INDIVIDUAL BASIN BREAKDOWN

BASIN ID	SIZE ACRES	DEMAND FLOW CFS	PIPE SIZE/ MIN. SLOPE IN, %	Qcap CFS
A	236	1.45	10" (.28%)	1.37
B	186	1.15	10" (.28%)	1.37
C	267	1.64	12" (.22%)	1.98
D	185	1.14	10" (.28%)	1.37
E	395	2.43	15" (.15%)	2.96
F	74	0.46	8" (.40%)	0.90
G	38	0.23	8" (.40%)	0.90
H	45	0.28	8" (.40%)	0.90
I	67	0.41	8" (.40%)	0.90
J	360	2.22	15" (.15%)	2.96
K	262	1.61	12" (.22%)	1.98
L1	20	0.12	8" (.40%)	0.90
L2	45	0.28	8" (.40%)	0.90
	2180	13.42		

AGGREGATE BASIN

POINT #	CONTRIBUTING BASINS	SIZE ACRES	DEMAND FLOW CFS	PIPE SIZE/SLOPE	Qcap CFS
#1	A	236	1.45	10" (.28%)	1.37
#2	A+B	422	2.59	15" (.15%)	2.96
#3	A+B+C+D	874	5.37	21" (.15%)	5.94
#4	A+B+C+D+E	1269	7.80	24" (.185%)	11.53
#5	A+B+C+D+E+F+G+H+I+L2	1538	9.44	24" (.185%)	11.53
#6	A+B+C+D+E+F+G+H+I+J+L1+L2	1918	11.78	24" (.185%)	11.53
#7	A+B+C+D+E+F+G+H+I+J+K+L1+L2	2180	13.39	24" (.185%)	11.53
#8	I+G	105	0.64	10" (.28%)	1.37

PIPE SIZING (CAPACITY ASSUMING MANNING n=.011)

- 8" @ 0.40% MIN = 0.90 cfs
- 10" @ 0.28% MIN = 1.37 cfs
- 12" @ 0.22% MIN = 1.98 cfs
- 15" @ 0.15% MIN = 2.96 cfs
- 18" @ 0.12% MIN = 4.31 cfs
- 21" @ 0.10% MIN = 5.94 cfs
- 24" @ 0.08% MIN = 7.58 cfs