



LEGEND

- ULTIMATE FLOW DIRECTION
- ULTIMATE SUBBASIN BOUNDARY
- - - PRORATED BASIN BOUNDARY
- UON17 ULTIMATE SUBBASIN BOUNDARY NAME
- PR1 PRORATED BASIN
- A — CROSS SECTION LOCATION
- - - - - EXISTING STORM DRAIN
- — — — — PROPOSED STORM DRAIN

30' 0' 30' 60'
SCALE: 1" = 60'

**ULTIMATE CONDITIONS
HEC-1 MODEL SUMMARY**

SUBBASIN OR CP	BASIN AREA (AC)	100 YR (cfs)
N-O-P*	12.76	49
STJ2*	3.10	13
STG1*	1.85	8
STJ1*	3.52	15
STG2*	2.86	13
STF*	1.84	8
DES4*	1.77	8
DES3*	2.00	9
L-M*	21.14	81
S*	3.01	10

**PRORATED BASIN
STORM FLOW SUMMARY**

SUBBASIN OR CP	BASIN AREA (AC)	% OF N-O-P	100 YR (cfs)
PR1	2.01	15.8	8
PR2	2.34	18.3	9
PR3	2.77	21.7	11
PR4	1.97	15.4	8
PR5	1.93	15.1	7
PR6	1.74	13.6	7

INLET SUMMARY

ONSITE				
DROP INLET	BASINS / CONC. PT.	Q ₁₀₀ (cfs)	Q ₁₀₀ (INTERCEPT) (cfs)	Q ₁₀₀ (BYPASS) (cfs)
DI #1	PR5 + PR6	14	14	0
DI #2	DI #3 BYPASS	15	8	7
DI #3	PR1 + PR2 + PR3	28	13	15
DI #4	DI #2 BYPASS + PR4	15	15	0

**100-YEAR OFFSITE
HYDRAULIC SECTIONS**

LOCATION	SLOPE (%)	Q ₁₀₀ (cfs)	D ₁₀₀ (ft)	V ₁₀₀ (ft/sec)	D ² V ₁₀₀
STG-1***	-	11	0.26	5.80	1.5
STG-2***	-	4	0.22	3.19	0.7
KR4 (N)****	-	2	0.23	5.17	1.2
KR3 (N)****	-	2	0.28	3.42	1.0
KR2 (E)****	-	4	0.33	2.60	0.9
DF1	2.50	2**	0.29	3.01	0.9

**100-YEAR
HYDRAULIC SECTIONS**

LOCATION	SLOPE (%)	BASIN/ CONC. PT.	Q ₁₀₀ (cfs)	D ₁₀₀ (ft)	V ₁₀₀ (ft/sec)	D ² V ₁₀₀
SECTION 1	0.65	PR5 + PR6	14	0.38	2.35	0.9
SECTION 2	3.48	PR5	7	0.27	3.78	1.0
SECTION 3	2.61	PR4	8	0.29	3.50	1.0
SECTION 4	4.50	PR4 + DI#2 BYPASS	15	0.32	4.99	1.6
SECTION 5	6.50	PR1 + PR2 + PR3	28	0.37	6.65	2.5
SECTION 6A	5.00	1/3 OF PR3	4	0.22	3.88	0.9
SECTION 6B	5.00	2/3 OF PR3	8	0.27	4.48	1.2
SECTION 7A	3.12	1/3 OF PR2	3	0.22	3.03	0.7
SECTION 7B	2.08	2/3 OF PR2	6	0.28	3.00	0.8
SECTION 8	7.11	PR1 + PR2	17	0.31	6.12	1.9
SECTION 9	2.58	PR1	8	0.29	3.48	1.0

- NOTES:
- * MASTER DRAINAGE CONCEPTUAL STUDY FOR SUMMERLIN WEST VILLAGE 22 (DS 5005)
 - ** TECHNICAL DRAINAGE STUDY FOR SUMMERLIN WEST VILLAGE 22 DESERT FOOTHILLS DRIVE: SUNSET RUN DRIVE TO FLEET WING AVENUE (STREET G) (DS 5344)
 - *** TECHNICAL DRAINAGE STUDY FOR SUMMERLIN WEST VILLAGE 22 FLEET WING AVENUE (STREET G); DESERT FOOTHILLS TO KETTLE RIDGE (STREET J) (DS 5278)
 - **** TECHNICAL DRAINAGE STUDY FOR SUMMERLIN WEST VILLAGE 22 KETTLE RIDGE DRIVE (STREET J); FLEET WING AVENUE TO KINDLE RISE WAY (STREET F); KINDLE RISE WAY (STREET F); KETTLE RIDGE DRIVE TO DESERT FOOTHILLS DRIVE (DS 5275)

ADD1 TO UPDATE #2

**SUMMERLIN
VILLAGE 22 LOT N-O-P
TOLL BROTHERS INC.**

**FIGURE 5
ULTIMATE CONDITION**

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