



**LEGEND**

- PROPOSED BASIN BOUNDARY
- PRORATED BASIN BOUNDARY
- ON1 PROPOSED DRAINAGE BASIN
- PR1 PRORATED BASIN
- FLOW DIRECTION

INTER/ULTIMATE CONDITIONS HEC-1 MODEL SUMMARY			
SUBBASIN OR CP	BASIN AREA (AC)	100 YR (cfs)	10 YR (cfs)
DOF1	17.09	40	18
DON1A	46.74	66	21
CP1	-	107	38
DOF2	3.43	<1	<1
DON1B	31.51	45	13
CP2	-	45	13

PRORATED BASINS FOR DON1A STORM FLOW SUMMARY			
SUBBASIN OR CP	BASIN AREA (AC)	% OF DON1A	100 YR (cfs)
PR1	0.90	1.9	1
PR2	2.43	5.2	3
PR3	7.79	16.7	11
PR4	6.77	14.5	10
PR5	6.59	14.1	9
PR6	4.10	8.8	6
PR7	-	NOT USED	-
PR8	5.59	12.0	8
PR9	5.87	12.6	8
PR10	2.14	4.6	3
PR11	4.55	9.7	6

PRORATED BASINS FOR DON1B STORM FLOW SUMMARY			
SUBBASIN OR CP	BASIN AREA (AC)	% OF DON1B	100 YR (cfs)
PR12	6.78	21.5	10
PR13	1.48	4.7	2
PR14	4.96	15.7	7
PR15	2.23	7.1	3
PR16	2.36	7.5	3
PR17	2.52	8.0	4
PR18	2.46	7.8	4
PR19	4.92	15.6	7
PR20	3.82	12.1	5

ULTIMATE CONDITION ONSITE DROP INLET SUMMARY				
DROP INLET	BASINS / CONC. PT.	Q100 (CFS)	Q100 (INTERCEPT) (CFS)	Q100 (BYPASS) (CFS)
D#1	1/2 OF BASINS (DOF1 AND PR1)	20.5	15.5	5
D#2	1/2 OF BASINS (DOF1 AND PR1)	20.5	15.5	5
D#3	1/2 OF (BYPASS D#1 + PR3 + PR4)	13	9	4
D#4	1/2 OF (BYPASS D#1 + PR3 + PR4)	13	9	4
D#5	BYPASS FROM (D#3 + D#4) + 40% OF BASIN PR5	12	8	4
D#6	60% OF PR5 + BYPASS FROM D#5	9	9	0
D#7	PR8 + 1/2 OF PR9	11	7	4
D#8	BYPASS FROM D#7 + 1/2 OF PR6	7	7	0
D#9	BYPASS FROM (D#10+D#13)	10	10	0
D#10	BYPASS (D#2+D#14) + PR2	12.5	4.5	8
D#13	BYPASS D#15	4.5	2.5	2
D#14	1/2 OF (PR8+PR10+PR11)	8.5	4	4.5
D#15	1/2 OF (PR8+PR10+PR11)	8.5	4	4.5
D#11	1/2 OF CP2	22.5	22.5	0
D#12	1/2 OF CP2	22.5	22.5	0

OFFSITE STREET BASINS SUMMARY		
SUBBASIN	AREA (ac)	Q <sub>100</sub> (cfs)
ECR1	7.80	22
EFA1	2.70	8
EFA2	2.40	7
ELOG2	12.10	35

REFERENCED "TECHNICAL DRAINAGE STUDY FOR SUNSTONE PHASE 1 INFRASTRUCTURE (DS5135)" AND "TECHNICAL DRAINAGE STUDY FOR SUNSTONE PHASE 2 N. SKYE CANYON PARK DRIVE (DS5635)"

100-YEAR OFFSITE HYDRAULIC SECTIONS						
Location	Basins	Slope (%)	Q <sub>100</sub> (cfs)	D <sub>100</sub> (ft)	V <sub>100</sub> (ft/sec)	D*V <sub>100</sub>
Section NC3a	-	1.40	3	0.34	2.61	0.9
Section NC3b	-	1.40	6	0.41	3.04	1.2
Section NC4b*	-	1.00	5	0.34	2.19	0.7
Section LC6*	-	3.83	13	0.37	4.57	1.7
Section LC7a*	-	3.83	5.5	0.35	4.4	1.5
Section LC7b*	-	3.75	7.5	0.46	4.68	2.2
Section SC1**	-	0.50	4	0.53	1.83	1.0
Section SC2**	-	0.50	3	0.39	1.71	0.7
Section SC3**	-	0.50	8	0.52	2.15	1.1

\* HYDRAULIC SECTIONS LC6, LC7a, AND LC7b ARE REFERENCED "TECHNICAL DRAINAGE STUDY FOR SUNSTONE PHASE 1 INFRASTRUCTURE (DS5135)"  
 \*\* HYDRAULIC SECTIONS SC1, SC2, AND SC3 REFERENCED FROM "TECHNICAL DRAINAGE STUDY FOR SUNSTONE PHASE 2 N. SKYE CANYON PARK DRIVE (DS5635)"

ULTIMATE CONDITION 100-YEAR HYDRAULIC SECTIONS SUMMARY						
Location	Basins	Slope (%)	Q <sub>100</sub> (cfs)	D <sub>100</sub> (ft)	V <sub>100</sub> (ft/sec)	D*V <sub>100</sub>
Section 1	DOF1 + PR1	2.00	41	0.85	5.48	3.6
Section 2	DOF1 + PR1	0.53	41	0.63	3.21	2.0
Section 3	BYPASS FROM D#1 + PR3	0.71	16	0.43	2.55	1.1
Section 4	PR4	1.20	10	0.34	2.98	1.0
Section 5	BYPASS FROM D#1 + PR3 + PR4	1.70	26	0.43	3.99	1.7
Section 6	BYPASS FROM (D#3+D#4)	2.46	8	0.28	3.85	1.1
Section 7	PR5	2.56	9	0.29	4.00	1.2
Section 8	PR6	1.00	6	0.29	2.52	0.7
Section 9	PR6+PR9	3.50	14	0.32	4.91	1.6
Section 10	PR9	3.50	8	0.27	4.25	1.1
Section 11	BYPASS FROM (D#2 + D#14 + D#15) + PR2	0.50	16	0.45	2.26	1.0
Section 12	BYPASS FROM D#2 + PR2	3.50	8	0.27	4.25	1.1
Section 13	BYPASS FROM D#2 + PR2	2.25	8	0.28	3.72	1.0
Section 14	PR10	1.52	3	0.23	2.48	0.6
Section 15	PR10+PR11	3.69	9	0.27	4.67	1.3
Section 16A	PR3	3.50	11	0.29	4.71	1.4
Section 16B	55% OF PR3	1.00	6	0.29	2.52	0.7
Section 17	PR12	3.99	10	0.28	4.89	1.4
Section 18	PR12+PR13	1.69	12	0.34	3.54	1.2
Section 19	PR12 + PR13 + PR14 + PR15 + PR16 + PR17	1.77	29	0.44	4.19	1.8
Section 20	PR20	1.00	5	0.28	2.45	0.7
Section 21	PR12 + PR13 + PR14 + PR15 + PR16 + PR17 + PR20	1.47	34	0.48	4.15	2.0
Section 22	PR18 + PR19	1.47	11	0.33	3.29	1.1
Section 23	PR15	1.54	3	0.23	2.49	0.6
Section 24	PR14 + PR15	3.76	10	0.28	4.78	1.3
Section 25	PR16 + PR17	2.95	7	0.27	3.79	1.0
Section 26	PR14 + PR15 + PR16 + PR17	0.89	17	0.42	2.82	1.2

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**FIGURE 6**  
ULTIMATE CONDITIONS MAP

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