

10-Year Street Flow Summary						
Ultimate Condition						
Cross Section	Slope (%)	Q ₁₀₀ (cfs)	Depth (ft)	Velocity (fps)	DxV	Dry Lane (ft)
EGN1a	2.46	2	0.24	2.6	0.6	21
*EGN1b	0.50	1	0.30	1.3	0.4	18
EGN2	0.50	2	0.30	1.3	0.4	18
SHA1	2.75	1	0.18	2.8	0.5	24
*HU2	0.57	29	0.73	3.2	2.4	9
*HU2B	0.57	22	0.67	3.0	2.0	12

* Modeled as Half Streets
1 Existing Drop Inlets Capture Flows to mitigate Dry Lane

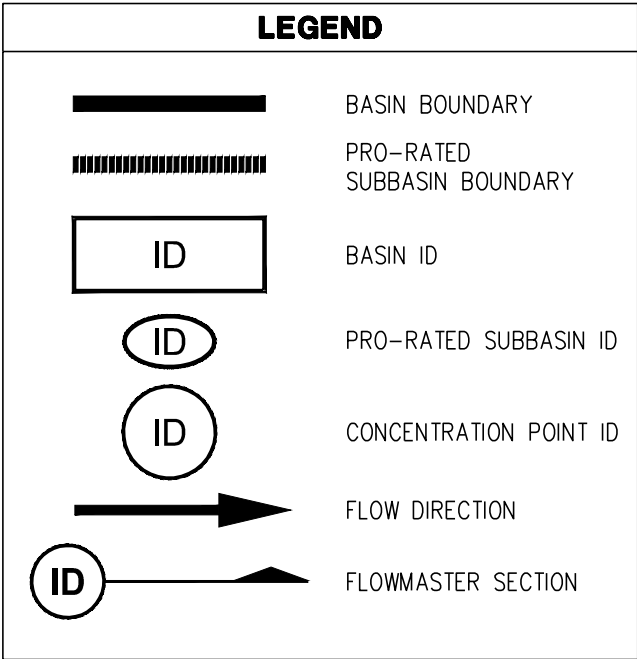
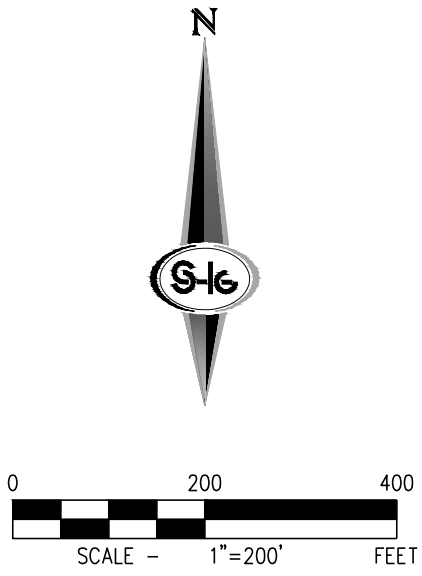
100-Year Street Flow Summary					
Ultimate Condition					
Cross Section	Slope (%)	Q ₁₀₀ (cfs)	Depth (ft)	Velocity (fps)	DxV
ECA1	4.90	33	0.46	6.1	2.8
ECA2	4.90	99	0.62	8.5	5.2
ECA2b	2.00	47	0.58	4.7	2.7
ECA3a	4.94	17	0.38	5.3	2.0
ECA3b	4.94	23	0.42	5.6	2.4
ECA3c	4.94	30	0.45	6.0	2.7
ECA4	0.50	23	0.57	2.4	1.4
EGN1a	2.46	4	0.29	2.9	0.8
*EGN1b	0.50	2.5	0.38	1.6	0.6
EGN2	0.50	4	0.35	1.6	0.5
*SHA	2.75	4	0.33	3.3	1.1
*SHA (West Half)	2.75	4	0.28	2.5	0.7
SHA1	2.75	3	0.26	2.9	0.7
*HU2	0.57	59	0.92	3.8	3.5
*HU2B	0.57	43	0.83	3.5	2.9

* Modeled as Half Streets

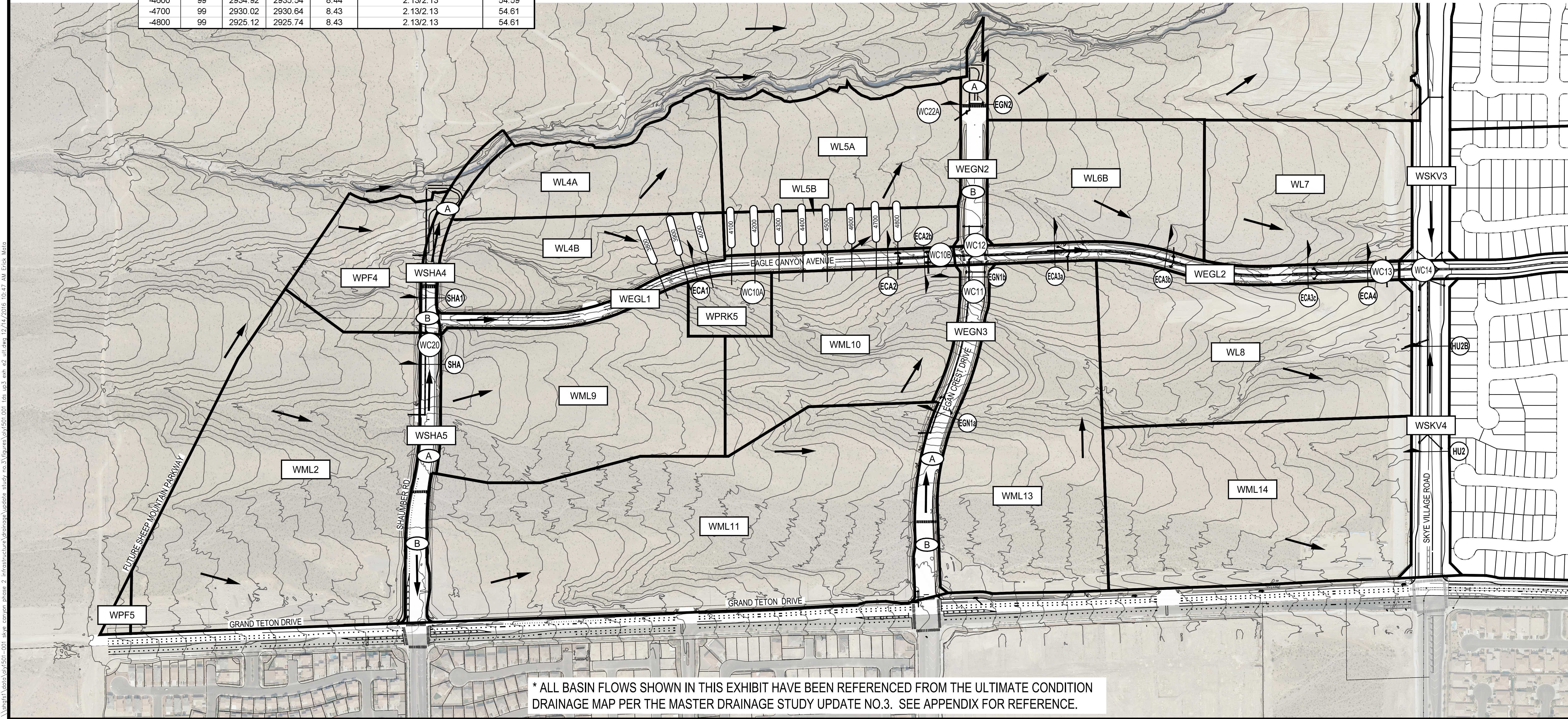
Referenced Ultimate Condition Flow Rate Summary			
Concentration Points			
Basin/Concentration Point ID	Area (sq. mi)	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)
WC10A			
Q = WML9 + WPRK5	0.03	60	30
WC10B			
Q = WML10 + WL4B + WEG1	0.05	99	48
WC11			
Q = WML10 + WEGN3	0.07	127	61
WC12			
Q = WC10B + WC11	0.11	226	109
WC13			
Q = WC12 + WL6B + WL7 + WML13 + WEG12	0.17	352	170
WC14			
Q = WML14 + WL8 + WSKV3 + WSKV4	0.24	485	236
WC20			
Q = WPF5 + WML2 + WSHA5	0.05	86	42
WC22A			
Q = WL4A + WL5A + WL5B	0.05	67	43

Ultimate Condition Prorated Flow Summary			
Basin	Q ₁₀₀ (cfs)	Area (acres)	Unit Flow (cfs/acre)
WSHA4	6	1.4	4.2
WSHA5	8	2.4	3.4
WEGN2	6	2.1	3.0
WEGN3	10	3.3	3.0
Subbasin	Q ₁₀₀ (cfs)	Area (acres)	Unit Flow (cfs/acre)
WSHA4-A	5	1.1	4.2
WSHA4-B	1	0.3	4.2
TOTAL	6	1.4	
WSHA5-A	4	1.3	3.4
WSHA5-B	4	1.1	3.4
TOTAL	8	2.4	
WEGN2-A	2	0.6	3.0
WEGN2-B	5	1.5	3.0
TOTAL	6	2.1	
WEGN3-A	8	2.5	3.0
WEGN3-B	2	0.8	3.0
TOTAL	10	3.3	

Referenced Ultimate Condition Flow Rate Summary			
Basin/Concentration Point ID	Area (ac)	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)
WL4A	8.0	23	10
WL4B	8.9	27	12
WL5A	10.9	32	15
WL5B	3.8	12	5
WL6B	10.6	30	14
WL7	11.5	34	16
WL8	17.4	48	22
WML10	11.6	38	19
WML11	16.0	48	23
WML13	16.4	49	25
WML14	19.2	59	29
WML2	27.4	78	38
WML9	16.4	55	28
WPF4	5.7	19	9
WPF5	0.4	1	0
WPRK5	2.0	5	2
WEST ROADWAY BASINS			
WEG1	3.4	12	6
WEG12	3.3	12	7
WEGN2	2.1	2	1
WEGN3	3.3	10	6
WSHA4	1.4	6	3
WSHA5	2.4	8	5
WSKV3	4.2	14	7
WSKV4	4.5	15	8



HEC-RAS Summary Table						
River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Vel Chnl (ft/s)	Overbank Left/Right Velocity (ft/sec)	Top Width (ft)
-3800	99	2974.12	2974.74	8.43	2.13/2.13	54.61
-3900	99	2969.22	2969.84	8.43	2.13/2.13	54.61
-4000	99	2964.32	2964.94	8.43	2.13/2.13	54.61
-4100	99	2959.42	2960.04	8.43	2.13/2.13	54.61
-4200	99	2954.52	2955.14	8.43	2.13/2.13	54.61
-4300	99	2949.62	2950.24	8.43	2.13/2.13	54.61
-4400	99	2944.72	2945.34	8.44	2.13/2.13	54.59
-4500	99	2939.82	2940.44	8.43	2.13/2.13	54.61
-4600	99	2934.92	2935.54	8.44	2.13/2.13	54.59
-4700	99	2930.02	2930.64	8.43	2.13/2.13	54.61
-4800	99	2925.12	2925.74	8.43	2.13/2.13	54.61



OLYMPIA COMPANIES

SKYE CANYON - PHASE 2 INFRASTRUCTURE UPDATE NO.3

ULTIMATE CONDITION DRAINAGE MAP

DATE: DECEMBER 2016

DRAFTER: ETM

DESIGNER: ETM

CHECKED: SMJ

PROJECT NO. OLY1501.001

EXHIBIT E2

SHEET 1 OF 1

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