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[1]	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	38	0.48	6.4	3.0
ECA2	4.90	44	0.50	6.5	3.2
ECA2b	2.00	14	0.41	3.6	1.5
ECA3a	4.94	6	0.29	4.2	1.2
ECA3b	4.94	28	0.44	5.9	2.6
ECA4	0.50	39	0.66	2.9	1.9
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 = WC10A + WL4B + WEGL1	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 + WEGL2	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	4	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***	

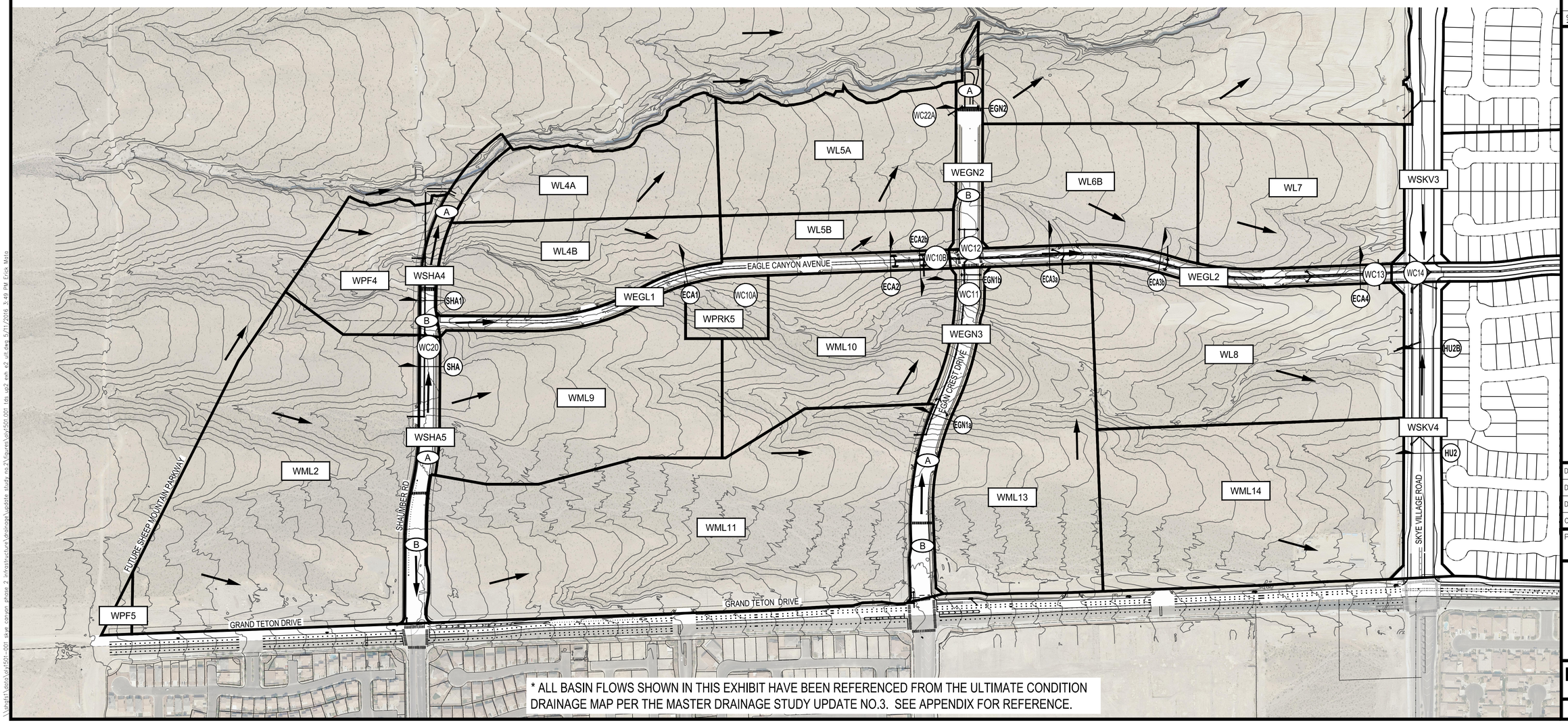
Referenced Ultimate Condition Flow Rate Summary			
Basin/Concentration Point ID	Area (ac)	Q_{100} (cfs)	Q_{10} (cfs)
WL4A	8.0	23	10
WL4B	8.9	27	12
WL5A	10.9	32	15
WL5B	3.8	12	5
WL6B	10.6	30	14
WL7	11.5	34	16
WL8	17.4	48	22
WML10	11.6	38	19
WML11	16.0	48	23
WML13	16.4	49	25
WML14	19.2	59	29
WML2	27.4	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			
WEGL1	3.4	12	6
WEGL2	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

N

0 200 400
SCALE – 1"=200' FEET

LEGEND

- BASIN BOUNDARY
- PRO-RATED SUBBASIN BOUNDARY
- ID — BASIN ID
- ID — PRO-RATED SUBBASIN ID
- ID — CONCENTRATION POINT ID
- FLOW DIRECTION
- ID — FLOWMASTER SECTION



* ALL BASIN FLOWS SHOWN IN THIS EXHIBIT HAVE BEEN REFERENCED FROM THE ULTIMATE CONDITION DRAINAGE MAP PER THE MASTER DRAINAGE STUDY UPDATE NO.3. SEE APPENDIX FOR REFERENCE.

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

OLYMPIA COMPANIES

SKYE CANYON - PHASE 2 INFRASTRUCTURE UPDATE NO.2
ULTIMATE CONDITION DRAINAGE MAP

DATE: MAY 2016
DRAFTER: ETM
DESIGNER: ETM
CHECKED: SMJ
PROJECT NO. OLY1501.001

EXHIBIT E2
SHEET 1 OF 1