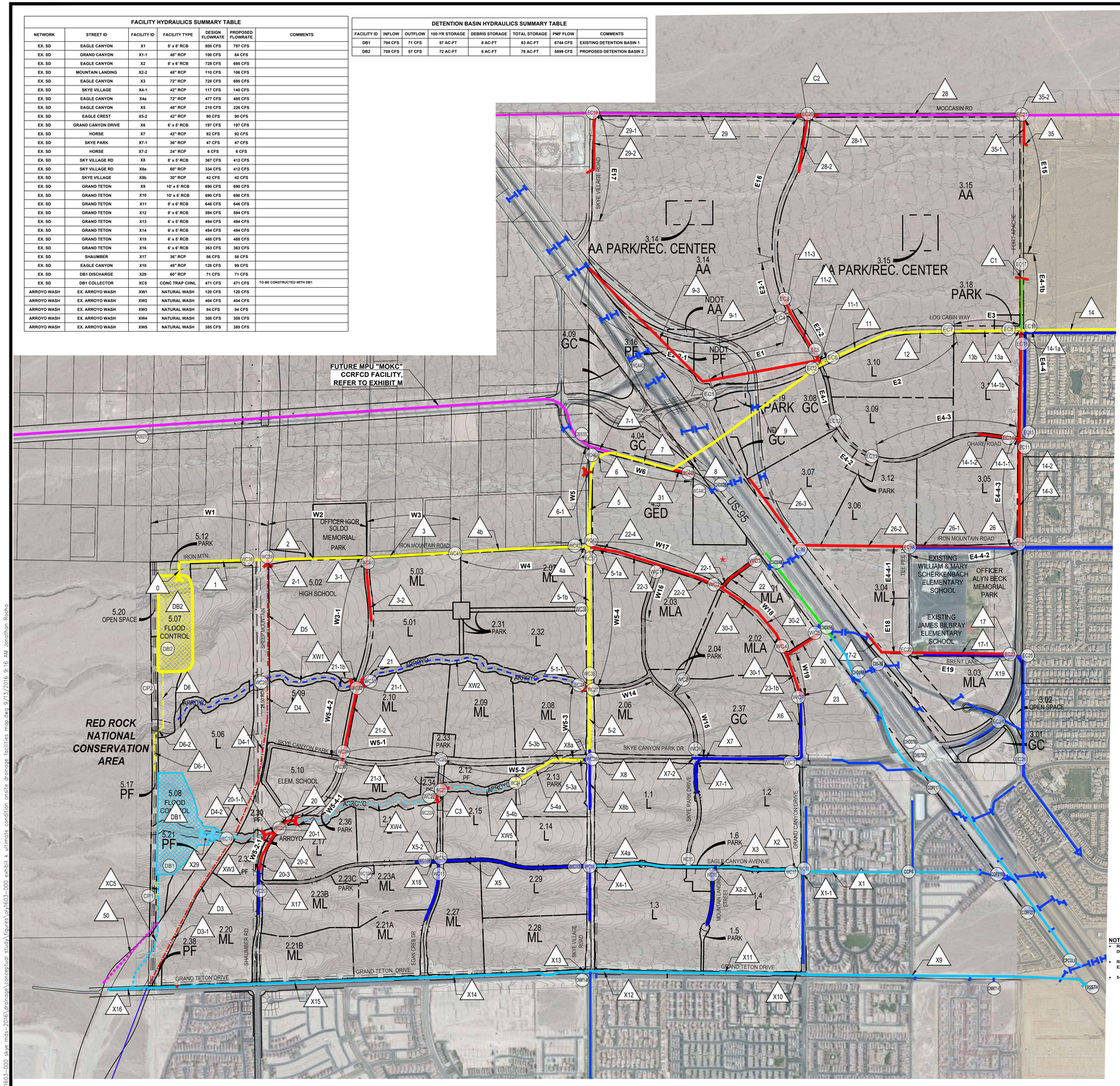
FACILITY HYDRAULICS SUMMARY TABLE

NETWORK	STREET ID	FACILITY ID	FACILITY TYPE	DESIGN FLOWRATE	PROPOSED FLOWRATE	COMMENTS
EX. SD	EAGLE CANYON	X1	8' x 8' RCB	800 CFS	787 CFS	
EX. SD	GRAND CANYON	X1-1	48" RCP	100 CFS	84 CFS	
EX. SD	EAGLE CANYON	X2	8' x 6' RCB	729 CFS	695 CFS	
EX. SD	MOUNTAIN LANDING	X2-2	48" RCP	110 CFS	106 CFS	
EX. SD	EAGLE CANYON	X3	72" RCP	728 CFS	695 CFS	
EX. SD	SKYE VILLAGE	X4-1	42" RCP	117 CFS	140 CFS	
EX. SD	EAGLE CANYON	X4a	72" RCP	477 CFS	485 CFS	
EX. SD	EAGLE CANYON	X5	48" RCP	218 CFS	226 CFS	
EX. SD	EAGLE CREST	X5-2	42" RCP	90 CFS	90 CFS	
EX. SD	GRAND CANYON DRIVE	X6	6' x 5' RCB	197 CFS	197 CFS	
EX. SD	HORSE	X7	42" RCP	92 CFS	92 CFS	
EX. SD	SKYE PARK	X7-1	36" RCP	47 CFS	47 CFS	
EX. SD	HORSE	X7-2	24" RCP	6 CFS	6 CFS	
EX. SD	SKY VILLAGE RD	X8	8' x 5' RCB	367 CFS	412 CFS	
EX. SD	SKY VILLAGE RD	X8a	60" RCP	334 CFS	412 CFS	
EX. SD	SKYE VILLAGE	X8b	30" RCP	42 CFS	42 CFS	
EX. SD	GRAND TETON	X9	10' x 5' RCB	690 CFS	690 CFS	
EX. SD	GRAND TETON	X10	10' x 5' RCB	690 CFS	690 CFS	
EX. SD	GRAND TETON	X11	8' x 6' RCB	646 CFS	646 CFS	
EX. SD	GRAND TETON	X12	8' x 6' RCB	594 CFS	594 CFS	
EX. SD	GRAND TETON	X13	6' x 5' RCB	484 CFS	484 CFS	
EX. SD	GRAND TETON	X14	6' x 5' RCB	484 CFS	484 CFS	
EX. SD	GRAND TETON	X15	6' x 5' RCB	488 CFS	488 CFS	
EX. SD	GRAND TETON	X16	6' x 6' RCB	363 CFS	363 CFS	
EX. SD	SHAUMBER	X17	36" RCP	56 CFS	56 CFS	
EX. SD	EAGLE CANYON	X18	48" RCP	128 CFS	99 CFS	
EX. SD	DB1 DISCHARGE	X29	60" RCP	71 CFS	71 CFS	
EX. SD	DB1 COLLECTOR	XC5	CONC TRAP CHNL	471 CFS	471 CFS	TO BE CONSTRUCTED WITH DB1
ARROYO WASH	EX. ARROYO WASH	XW1	NATURAL WASH	120 CFS	120 CFS	
ARROYO WASH	EX. ARROYO WASH	XW2	NATURAL WASH	404 CFS	404 CFS	
ARROYO WASH	EX. ARROYO WASH	XW3	NATURAL WASH	94 CFS	94 CFS	
ARROYO WASH	EX. ARROYO WASH	XW4	NATURAL WASH	308 CFS	308 CFS	
ARROYO WASH	EX. ARROYO WASH	XW5	NATURAL WASH	355 CFS	355 CFS	

DETENTION BASIN HYDRAULICS SUMMARY TABLE

FACILITY ID	INFLOW	OUTFLOW	100-YR STORAGE	DEBRIS STORAGE	TOTAL STORAGE	PMF FLOW	COMMENTS
DB1	794 CFS	71 CFS	57 AC-FT	6 AC-FT	63 AC-FT	6744 CFS	EXISTING DETENTION BASIN 1
DB2	708 CFS	57 CFS	72 AC-FT	6 AC-FT	78 AC-FT	5899 CFS	PROPOSED DETENTION BASIN 2



FACILITY HYDRAULICS SUMMARY TABLE

NETWORK	STREET ID	FACILITY ID	FACILITY TYPE	LENGTH	SLOPE	FLOW RATE	COMMENTS
WEST SD	DB2 OUTLET	0	30" RCP	214'	2.0%	57 CFS	
WEST SD	W1	1	42" RCP	1099'	2.9%	65 CFS	
WEST SD	W2	2	42" RCP	1236'	5.0%	90 CFS	
WEST SD	INFLOW FROM SHEEP MOUNTAIN CHNL	2-1	24" RCP	66'	4.4%	19 CFS	
WEST SD	W3	3	54" RCP	1161'	3.2%	227 CFS	
WEST SD	W3-1	3-1	42" RCP	191'	3.0%	112 CFS	
WEST SD	W3-1	3-2	30" RCP	595'	1.7%	40 CFS	
WEST SD	W4	4a	54" RCP	100'	4.5%	370 CFS	
WEST SD	W4	4b	54" RCP	1500'	4.5%	249 CFS	
WEST SD	W5	5	13' x 6' RCB	931'	1.8%	1296 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
WEST SD	ARROYO WASH INFLOW	5-1-1	6' x 6' RCB	51'	14.6%	404 CFS	
WEST SD	W5-4	5-1a	13' x 6' RCB	100'	2.1%	1000 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
WEST SD	W5-4	5-1b	11' x 6' RCB	1654'	0.5%	816 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
WEST SD	W5-3	5-2	9' x 6' RCB	779'	0.5%	412 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
WEST SD	W5-2	5-3a	60" RCP	79'	3.0%	412 CFS	
WEST SD	W5-2	5-3b	60" RCP	301'	3.0%	359 CFS	
WEST SD	CONVEYS FLOW TO SD 5-3a	5-4a	60" RCP	491'	3.0%	359 CFS	
WEST SD	INFLOW FROM ARROYO WASH	5-4b	6' x 6' RCB	50'	2.8%	359 CFS	
WEST SD	W5	6	13' x 6' RCB	445'	1.8%	1296 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
WEST SD	W6	7	13' x 6' RCB	723'	1.8%	2079 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
WEST SD	MPU FACILITY	7-1	9' x 6' RCB	309'	5.0%	1324 CFS	MOKC-0000 MPU FACILITY PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
WEST SD	DISCHARGE TO ARROYO WASH	20	60" RCP	109'	2.0%	201 CFS	
WEST SD	W5-2-1	20-1	48" RCP	194'	2.0%	180 CFS	
WEST SD	INFLOW FROM DB1	20-1-1	48" RCP	135'	2.2%	94 CFS	
WEST SD	W5-2-1	20-2	36" RCP	340'	3.0%	84 CFS	
WEST SD	W5-2-1	20-3	36" RCP	193'	3.5%	84 CFS	
WEST SD	DISCHARGE TO ARROYO WASH	21	54" RCP	42'	4.0%	244 CFS	
WEST SD	W5-4-2	21-1	42" RCP	100'	2.5%	124 CFS	
WEST SD	INFLOW FROM ARROYO WASH	21-1b	54" RCP	68'	3.4%	120 CFS	
WEST SD	W5-4-2	21-2	36" RCP	663'	3.4%	62 CFS	
WEST SD	W5-4-1	21-3	36" RCP	109'	1.3%	62 CFS	
WEST SD	N/A	22	7' x 6' RCB	426'	2.2%	73 CFS	
WEST SD	N/A	22-1	7' x 6' RCB	146'	2.2%	73 CFS	
WEST SD	W17	22-2	8' x 6' RCB	339'	2.0%	73 CFS	COMPLETION OF CCRFCD REGIONAL FACILITIES MAY ELIMINATE NEED FOR STORM DRAIN
WEST SD	W17	22-3	8' x 6' RCB	1017'	2.0%	0 CFS	COMPLETION OF CCRFCD REGIONAL FACILITIES MAY ELIMINATE NEED FOR STORM DRAIN
WEST SD	W17	22-4	8' x 6' RCB	382'	2.6%	0 CFS	COMPLETION OF CCRFCD REGIONAL FACILITIES MAY ELIMINATE NEED FOR STORM DRAIN
WEST SD	W19 OUTLET TO WASH	23	36" RCP	59'	3.4%	288 CFS	
WEST SD	W19	23-1b	54" RCP	529'	1.7%	0 CFS	COMPLETION OF CCRFCD REGIONAL FACILITIES MAY ELIMINATE NEED FOR STORM DRAIN
WEST SD	N/A	30	42" RCP	476'	2.5%	170 CFS	
WEST SD	W18	30-1	72" RCP	297'	1.2%	135 CFS	COMPLETION OF CCRFCD REGIONAL FACILITIES MAY ELIMINATE NEED FOR STORM DRAIN
WEST SD	W18	30-2	54" RCP	364'	1.8%	0 CFS	COMPLETION OF CCRFCD REGIONAL FACILITIES MAY ELIMINATE NEED FOR STORM DRAIN
WEST SD	W18	30-3	54" RCP	527'	1.4%	0 CFS	COMPLETION OF CCRFCD REGIONAL FACILITIES MAY ELIMINATE NEED FOR STORM DRAIN
WEST SD	W6	31	8' x 6' RCB	272'	2.0%	0 CFS	PLUGGED/ABANDONED UPON COMPLETION OF CCRFCD FACILITIES
WEST SD	DISCHARGE FROM SB	50	CONC TRAP CHNL	1017'	1.5%	471 CFS	12' BOTTOM WIDTH, 5' DEEP (TO BE CONSTRUCTED BY GRAND TETON/SHEEP MTN INTERCHANGE, REPLACES FACILITY XC5)
WEST SD	ARROYO WASH CULVERT	C3	6' x 5' RCB	164'	6.1%	308 CFS	
WEST SD	SHEEP MOUNTAIN CHNL	D3	EARTHEN TRAP CHNL	818'	3.6%	31 CFS	20' BOTTOM WIDTH; 3:1 SIDE SLOPES; 3' DEEP
WEST SD	SHEEP MOUNTAIN CHNL	D3-1	EARTHEN TRAP CHNL	1239'	1.7%	31 CFS	8' BOTTOM WIDTH; 3:1 SIDE SLOPES; 3' DEEP
WEST SD	SHEEP MOUNTAIN CHNL	D4	EARTHEN TRAP CHNL	534'	4.5%	11 CFS	8' BOTTOM WIDTH; 3:1 SIDE SLOPES; 2' DEEP
WEST SD	SHEEP MOUNTAIN CHNL	D4-1	EARTHEN TRAP CHNL	757'	1.5%	11 CFS	8' BOTTOM WIDTH; 3:1 SIDE SLOPES; 3' DEEP
WEST SD	SHEEP MOUNTAIN CHNL	D4-2	EARTHEN TRAP CHNL	691'	1.0%	11 CFS	8' BOTTOM WIDTH; 3:1 SIDE SLOPES; 3' DEEP
WEST SD	SHEEP MOUNTAIN CHNL	D5	EARTHEN TRAP CHNL	1252'	1.2%	6 CFS	8' BOTTOM WIDTH; 3:1 SIDE SLOPES; 3' DEEP
WEST SD	CHANNEL TO DB2	D6	CONCRETE TRAP CHNL	723'	3.0%	235 CFS	12' BOTTOM WIDTH; 3:1 SIDE SLOPES; 5' DEEP TO BE CONSTRUCTED WITH DB2
WEST SD	CHANNEL TO DB2	D6-1	EARTHEN TRAP CHNL	451'	0.9%	10 CFS	8' BOTTOM WIDTH; 3:1 SIDE SLOPES; 3' DEEP TO BE CONSTRUCTED WITH DB2
WEST SD	CHANNEL TO DB2	D6-2	EARTHEN TRAP CHNL	145'	1.4%	10 CFS	8' BOTTOM WIDTH; 3:1 SIDE SLOPES; 3' DEEP TO BE CONSTRUCTED WITH DB2
WEST SD	N/A	6-1	(6) 10' X 4' RCB	62'	N/A	N/A	INTERIM COLLECTOR PRIOR TO COMPLETION OF FACILITY 7-1; CAPPED/PLUGGED IN ULTIMATE CONDITION

FACILITY HYDRAULICS SUMMARY TABLE

NETWORK	STREET ID	FACILITY ID	FACILITY TYPE	LENGTH	SLOPE	FLOW RATE	COMMENTS
EAST SD	US-95 SD CROSSING	8	13' x 8' RCB	600'	2.9%	2079 CFS	TO BE CONSTRUCTED BY SEPARATE CLV KYLE INTERCHANGE PROJECT
EAST SD	RCP	9	60" RCP	1724'	2.5%	2079 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
EAST SD	US-95	9-1	72" RCP	1462'	1.4%	250 CFS	
EAST SD	US-95	9-3	72" RCP	1987'	1.5%	250 CFS	
EAST SD	RCP	11	72" RCP	913'	2.9%	2532 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
EAST SD	E2-2	11-1	72" RCP	53'	3.0%	432 CFS	PER KYLE INTERCHANGE HYDRAULIC SUPPLEMENT
EAST SD	E2-2	11-2	42" RCP	680'	1.2%	73 CFS	
EAST SD	E2-1	11-3	30" RCP	238'	1.7%	39 CFS	
EAST SD	RCP	12	72" RCP	794'	2.9%	2532 CFS	
EAST SD	RCP	13a	72" RCP	50'	1.6%	2606 CFS	
EAST SD	RCP	13b	72" RCP	809'	2.9%	2532 CFS	
EAST SD	E4-3	14-1-1	42" RCP	50'	5.0%	181 CFS	
EAST SD	E4-3	14-1-2	24" RCP	461'	5.0%	36 CFS	
EAST SD	E4-4	14-1a	72" RCP	51'	0.7%	276 CFS	
EAST SD	E4-4	14-1b	72" RCP	1303'	0.7%	264 CFS	
EAST SD	RCP	14-2	60" RCP	50'	0.4%	73 CFS	
EAST SD	RCP	14-3	54" RCP	1299'	0.4%	0 CFS	
EAST SD	E19	17	36" RCP	56'	3.0%	70 CFS	
EAST SD	E19	17-1	6' x 6' RCB	1632'	3.5%	63 CFS	
EAST SD	Parcel 3.04	17-2	48" RCP	298'	2.3%	220 CFS	
EAST SD	E4-4-2	26	60" RCP	209'	2.6%	57 CFS	
EAST SD	E4-4-2	26-1	60" RCP	1180'	2.6%	57 CFS	
EAST SD	PARCEL 3.06	26-2	60" RCP	1359'	2.6%	23 CFS	
EAST SD	PARCEL 3.07	26-3	60" RCP	1018'	2.5%	23 CFS	
EAST SD	MPU FACILITY	28	N/A	N/A	N/A	N/A	LVMO-0144 MPU FACILITY, REPLACES PROP. CONDITION FACILITY D1
EAST SD	E16	28-1	60" RCP	50'	0.8%	199 CFS	
EAST SD	E16	28-2	42" RCP	660'	0.8%	81 CFS	
EAST SD	MPU FACILITY	29	66" RCP	N/A	N/A	N/A	LVMO-0154 MPU FACILITY, REPLACES PROP. CONDITION FACILITY D2
EAST SD	E17	29-1	66" RCP	50'	4.0%	72 CFS	
EAST SD	E17	29-2	66" RCP	647'	0.6%	26 CFS	
OFFSITE SD	LOG CABIN WAY	14	14' x 7' RCB	1591'	2.2%	3137 CFS	SEE EXHIBIT K FOR CONTINUATION
PROPOSED SD	CROSSING FORT APACHE	35	66" RCP	46'	0.5%	0 CFS	NOT UTILIZED WITHIN THE ULTIMATE CONDITIONS
PROPOSED SD	E15	35-1	66" RCP	359'	0.8%	0 CFS	NOT UTILIZED WITHIN THE ULTIMATE CONDITIONS
PROPOSED SD	MOCASSIN CHNL INFLOW	35-2	66" RCP	120'	3.3%	0 CFS	NOT UTILIZED WITHIN THE ULTIMATE CONDITIONS
PROPOSED SD	E4-1b	C1	72" RCP	147'	2.0%	0 CFS	NOT UTILIZED WITHIN THE ULTIMATE CONDITIONS
PROPOSED SD	RCB	C2	6' x 6' RCB	155'	1.0%	0 CFS	NOT UTILIZED WITHIN THE ULTIMATE CONDITIONS

NOTES:

- REFER TO EXHIBIT M - ULTIMATE CONDITION US-95 HYDRAULICS SUMMARY MAP FOR DETAILED FLOW THRU EXISTING US-95 CULVERTS & RCB FACILITIES
- REFER TO EXHIBIT K - ULTIMATE CONDITION OFFSITE EAST FACILITIES MAP FOR EXTENSION OF FACILITIES REQUIRED IN MPU ALIGNMENT EAST OF SKYE CANYON.
- 5-FT TOPOGRAPHIC CONTOURS SHOWN ON EXHIBIT

N

0 600 1200
SCALE – 1"=600' FEET

LEGEND

- PROPOSED LOCAL FACILITIES
- ONSITE CCRFCD REGIONAL FACILITIES
- FUTURE CCRFCD REGIONAL FACILITIES (BY OTHERS)
- FUTURE LOCAL FACILITIES
- EXISTING CCRFCD REGIONAL FACILITIES
- EXISTING LOCAL FACILITIES
- OPEN CHANNEL FACILITIES
- ID — STREET SEGMENT ID

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

OLYMPIA COMPANIES
SKYE CANYON - MASTER DRAINAGE STUDY
ULTIMATE CONDITIONS ONSITE DRAINAGE FACILITIES MAP

DATE: SEPT 2016
DRAFTER: CWB/JSR
DESIGNER: CWB/JSR
CHECKED: SMJ
PROJECT NO. OLY1603.000

EXHIBIT J
SHEET 1 OF 1

\\slg\1603-000 skye mdp-2016\drainage\conceptual study\figures\oly1603-000 exhibit k ultimate condition onsite drainage facilities map.dwg 9/13/2016 9:16 AM Jonathan Rocha