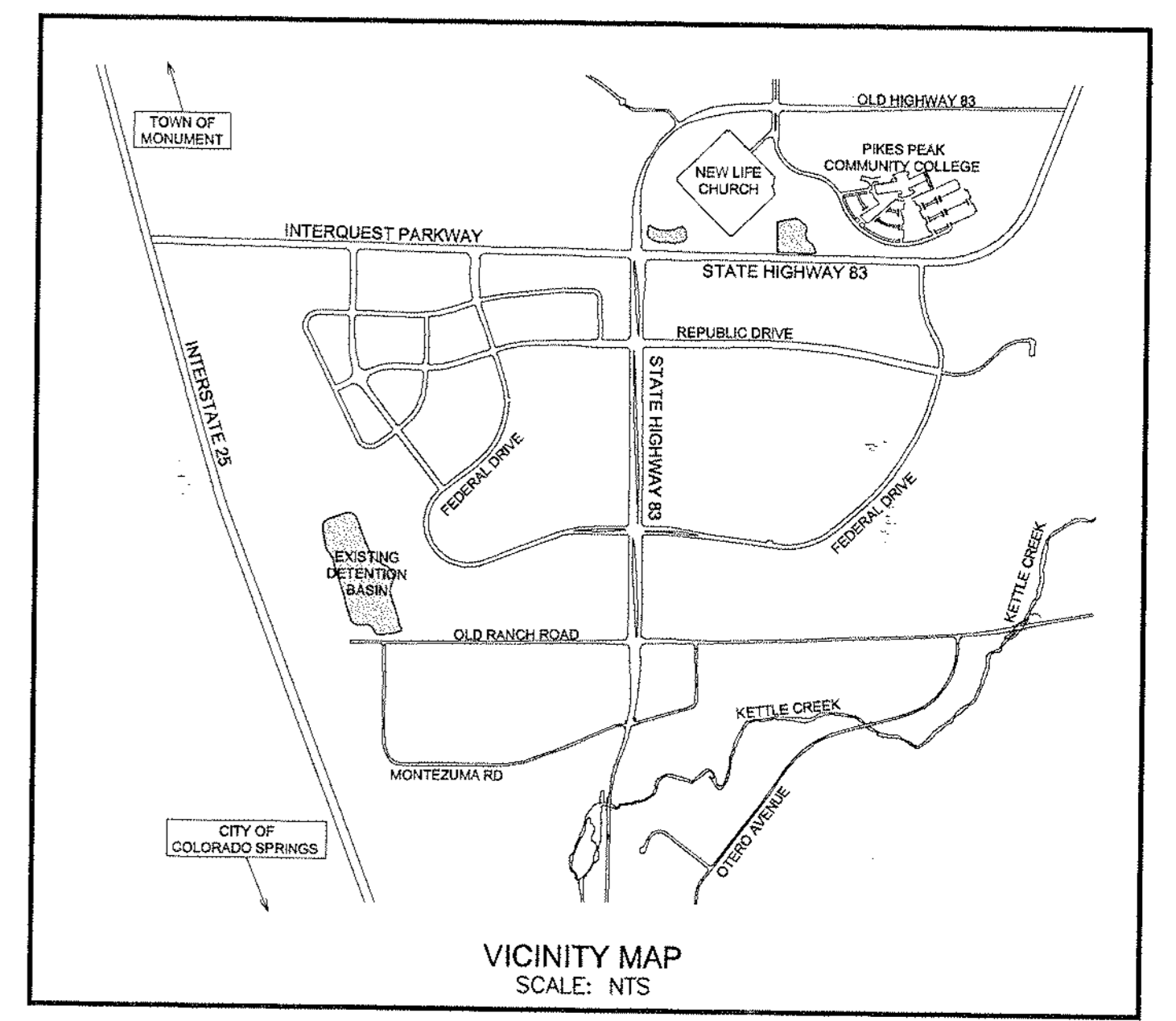


NOTE: TOPOGRAPHY USED IN THIS MDDP DOES NOT REFLECT THE EXISTING CONDITIONS FOR ALL AREAS OF THE DRAINAGE BASINS.



**SUMMARY OF DESIGN POINT DISCHARGES (24-HOUR STORM)**

DESIGN POINT	LOCATION	DRAINAGE AREA	DEVELOPED CONDITION	
			5 Year	100 Year
DP 1	AT OUTLET OF DETENTION BASIN B9	83.2 ac 0.13 sm	42 cfs	108 cfs
DP 2	SH 83 AND INTERQUEST PARKWAY	179.2 ac 0.28 sm	58 cfs	207 cfs
DP 3	SH 83 AND INTERQUEST PARKWAY	179.2 ac 0.28 sm	58 cfs	207 cfs
DP 4	FEDERAL DRIVE AND REPUBLIC DRIVE	198.4 ac 0.31 sm	78 cfs	252 cfs
DP 5	FEDERAL DRIVE AND REPUBLIC DRIVE	211.2 ac 0.33 sm	108 cfs	325 cfs
DP 5A		236.8 ac 0.37 sm	154 cfs	427 cfs
DP 6		25.6 ac 0.04 sm	54 cfs	120 cfs
DP 6		288.0 ac 0.45 sm	252 cfs	651 cfs
DP 7		19.2 ac 0.03 sm	44 cfs	990 cfs
DP 8	INFLOW TO DETENTION BASIN A	716.8 ac 1.12 sm	820 cfs	2091 cfs
DP 8	OUTFLOW FROM DETENTION BASIN A	716.8 ac 1.12 sm	126 cfs	170 cfs
DP 10	SH 83 AND FEDERAL DRIVE	160.0 ac 0.25 sm	280 cfs	647 cfs
DP 11	OUTFLOW FROM DETENTION BASIN D	70.4 ac 0.11 sm	65 cfs	171 cfs
DP 12	SH 83 AND OLD RANCH ROAD	256.0 ac 0.40 sm	351 cfs	860 cfs
DP 13	FEDERAL DRIVE	51.2 ac 0.08 sm	95 cfs	216 cfs
DP 14	EX. 60" RCP UNDER I-25	739.8 ac 1.16 sm	130 cfs	200 cfs
DP 15	EX. 24" RCP UNDER I-25	50.7 ac 0.08 sm	19 cfs	61 cfs
E1	AIR FORCE ACADEMY BOUNDARY	17.0 ac 0.03 sm	35 cfs	71 cfs
E1 OUT	OUTFLOW DETENTION BASIN E	17.0 ac 0.03 sm	4 cfs	12 cfs

**SUMMARY OF DRAINAGE CONVEYANCES (24-HOUR STORM)**

CONVEYANCE NUMBER	SIZE / TYPE	CAPACITY	DEVELOPED CONDITION	
			5 Year	100 Year
O2B-1	GRASSLINED SWALE	100 cfs	5 cfs	60 cfs (1)
B-01	EXISTING 36-INCH RCP	89 cfs	12 cfs	49 cfs
B-9	EXISTING 48-INCH RCP	187 cfs	42 cfs	107 cfs
B-9A	EXISTING 8' x 2' CBC	140 cfs	58 cfs	206/171 cfs (1)
B-8	EXISTING 54-INCH RCP	310 cfs	57 cfs	205 cfs
B-7	54-INCH RCP	264 cfs	76 cfs	249 cfs
B-6	36-INCH RCP	79 cfs	36 cfs	81 cfs
B-5	60-INCH RCP	404 cfs	141 cfs	399 cfs
B-5A	60-INCH RCP	451 cfs	153 cfs	425 cfs
B-4	30-INCH RCP (5-YEAR)	41 cfs	35 cfs	78 cfs
B-2 (2)	36-INCH RCP (5-YEAR)	67 cfs	54 cfs	119 cfs
B-1 (2)	60-INCH RCP (10-YEAR)	410 cfs	249 cfs	646 cfs
B-2A (2)	24-INCH RCP (5-YEAR)	32 cfs	21 cfs	47 cfs
B-1	30-INCH RCP (10-YEAR)	58 cfs	85 cfs	171 cfs
B-2B	48-INCH RCP	91 cfs	44 cfs	97 cfs
A-3	EXISTING CONCRETE CHANNEL	300 cfs	100 cfs	231 cfs
A-7	EXISTING CONCRETE CHANNEL	890 cfs	278 cfs	640 cfs
D-1	30-INCH RCP	58 cfs	13 cfs	60 cfs
A-7A	30-INCH RCP (5-YEAR)	58 cfs	64 cfs	171 cfs
A-1	EXISTING 30-INCH RCP	45 cfs	45 cfs	102 cfs
A-2 (A)	36-INCH RCP (5-YEAR)	249 cfs	95 cfs	216 cfs
A-12	GRASS AND RIPRAP LINED CHANNEL	190 cfs	128 cfs	170 cfs
E-1	GRASS AND RIPRAP LINED CHANNEL	20 cfs	5 cfs	12 cfs

(1) FLOW IN EXCESS OF 35 cfs DIVERTS TO THE BLACK SQUIRREL BASIN.  
 (2) PIPE WITH OVERFLOW CHANNEL REQUIRED FOR FULL 100-YEAR CONVEYANCE.

**SUMMARY OF DETENTION BASIN DATA (24-HOUR STORM)**

EXISTING DETENTION BASIN NUMBER	Q <sub>s</sub> Q <sub>10</sub> Q <sub>100</sub>		
	IN	OUT	OUT
EXISTING DETENTION BASIN B9 (PIKES PEAK COMMUNITY COLLEGE)	66 cfs	106 cfs	200 cfs
EXISTING DETENTION BASIN D (KETTLE CREEK ROAD)	64 cfs	92 cfs	157 cfs
EXISTING DETENTION BASIN B8 (NEW LIFE CHURCH)	55 cfs	83 cfs	148 cfs
EXISTING DETENTION BASIN A (EMBANKMENT RAISED AND OUTLET MODIFIED)	820 cfs	1209 cfs	2091 cfs
PROPOSED DETENTION BASIN E	35 cfs	48 cfs	71 cfs

**FAIRLANE TECHNOLOGY PARK  
 MASTER DEVELOPMENT DRAINAGE PLAN UPDATE  
 HYDROLOGIC SUB-BASIN MAP AND  
 PROPOSED STORM DRAINAGE FACILITIES**

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