

Jackson Street Proposed Infiltration Trench Summary

ID	Street Station	Street Width (ft)	Roadway Drainage Length (ft)	Sub-drainage Area (acre)	100-Y Peak Q (cfs)	100-Y 24-H Storm Volume (cf)	HDPE Estimated Length (ft)	24-H Infiltration Volume * (cf)	Design Storage Volume (cf)	Req'd 60" HDPE Storage (lf)	60" HDPE Proposed (lf)	Remarks
1	Avenue 48 to 50 West	50	0	0.0	0.0	0	0	0	0	0	0	West side C&G, S/W, Landscaped, CBs throughout
2	Avenue 48 to Odium (49) Ea	50	0	0.0	0.0	0	0	0	0	0	0	East side Coachella, C&G, S/W, CB, Landscaped, wall
3	Avenue 49 to 50 East	50	2640	3.0	3.9	40000	800	15360	24640	795	800	Eastside Indio, some fences, need street widening
4	Avenue 50 to 52 West	50	0	0.0	0.0	0	0	0	0	0	0	West side C&G, S/W, Landscaped, CBs throughout
5	Avenue 50 to 52 East	50	5280	6.1	7.9	80000	1,600	30720	49280	1590	1600	Eastside County, C&G, D/W, landscaped 600 LF north of Ave. 52, 300 LF S/W
Ave. 50 Total			7,920	9.1	12	120,000	2,400	46,080	73,920	2,385	2,400	

*24-Hour Infiltration Volume = Estimated HDPE Length (80% Trench Width) [(Infiltration Rate 1.5 inches/Hour) /12] (24 Hour)

Average Street 100-year Q=1.3*(Area in AC)

Average Storm 100-year 24-Hour Volume =13200*(Area in AC)

JACKSON MDP IMPROVEMENT**PRELIMINARY DRAINAGE IMPROVEMENT COSTS**

NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
1	CONSTRUCT CATCH BASIN PER CITY OF INDIO STD. PLAN NO. 300 WITH ADS FLEX STORM PURE INLET FILTER (OR EQUAL) AND LOCAL DEPRESSION STD. NO. 303	LF	42	\$560	\$23,520
2	INSTALL 18" HDPE STORM DRAIN PIPE	LF	90	\$177	\$15,930
3	INSTALL 60" PERFORATED (BOTTOM) HDPE STORM DRAIN PIPE PER TRENCH INSTALLATION DETAIL	LF	2400	\$240	\$576,000
4	INSTALL MANHOLE PER ADS 60" HDPE MANHOLE WITH 30" SOLID COVER	EA	4	\$9,000	\$36,000
5	CONSTRUCT DRAINAGE INLET PER CALTRANS STD. PLAN RSP D73D, TYPE GT3 WITH ADS FLEX STORM PURE INLET FILTER (OR EQUAL)	EA	4	\$10,000	\$40,000
6	RELOCATION OF EXISTING WATER, WATER LATERAL, SEWER LATERAL, AND MISC. ITEMS	LS	1	\$30,000	\$30,000
7	MAXWELL PLUS DRAINAGE SYSTEM (40' DEEP)	EA	3	\$40,000	\$120,000
				IMPROVEMENTS COST SUBTOTAL	\$841,450