

Avenue 52 Proposed Infiltration Trench Summary

ID	Street Section	Half 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	Madison to Monroe (N)	50	5280	6.1	7.9	80000	1,600	30720	49280	1590	1600	South side in La Quinta developed with C&G, CB & landscape median
2	Monroe to Jackson (N)	50	2000	2.3	3.0	30300	600	11520	18780	606	600	South side in La Quinta, north 3300 LF developed with C&G, CB
Avenue 52 Total			7,280	8.4	11	110,300	2,200	42,240	68,060	2,195	2,200	

*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)

AVENUE 52 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	28	\$560	\$15,680
2	INSTALL 18" HDPE STORM DRAIN PIPE	LF	80	\$177	\$14,160
3	INSTALL 60" PERFORATED (BOTTOM) HDPE STORM DRAIN PIPE PER TRENCH INSTALLATION DETAIL	LF	2200	\$240	\$528,000
4	INSTALL MANHOLE PER ADS 60" HDPE MANHOLE WITH 30" SOLID COVER	EA	6	\$9,000	\$54,000
5	CONSTRUCT DRAINAGE INLET PER CALTRANS STD. PLAN RSP D73D, TYPE GT3 WITH ADS FLEX STORM PURE INLET FILTER (OR EQUAL)	EA	2	\$10,000	\$20,000
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	2	\$40,000	\$80,000
IMPROVEMENTS COST SUBTOTAL				\$	741,840