

Monroe Street Proposed Infiltration Trench Summary

ID	Street Station	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	Avenue 48 to 50 East	50	0	0.0	0.0	0	0	0	0	0	0	East side C&G, S/W, Landscaped, a small CB at north of Ave 50
2	Avenue 48 to 49 West	50	0	0.0	0.0	0	0	0	0	0	0	West side C&G, S/W, CB, 1000 LF Landscaped
3	Avenue 49 to 50 West	50	1100	1.3	1.6	16667	300	5760	10907	352	800	West side C&G, D/W, Trees, Fence & walls, CB 1200' S of Ave 49 w/ basin per ST 1301, add 400 LF for Monroe Basin outlet
4	Avenue 50 to 52 East	50	2640	3.0	3.9	40000	1,100	18480	21520	1010	1100	East side C&G, S/W, D/W, CBs along Curb, CB w/Maxwell at N Ave 52 & S Ave 50 per ST 1301
5	Avenue 50 to 52 West	50	2640	3.0	3.9	40000	1,100	18480	21520	1010	1100	Westside C&G, D/W, trees and walls, 2 CBs at north of Ave 52 w/ maxwells, 1 CB at 700 LF south of Ave 50 w/ Maxwells per ST 1301
Monroe Total			6,380	7.3	10	96,667	2,500	42,720	53,947	2,372	3,000	

*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)

MONROE MDP IMPROVEMENT**PRELIMINARY DRAINAGE IMPROVEMENT COSTS**

NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
1	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	84	\$560	\$47,040
2	INSTALL 18" HDPE STORM DRAIN PIPE	LF	160	\$177	\$28,320
3	INSTALL 60" PERFORATED (BOTTOM) HDPE STORM DRAIN PIPE PER TRENCH INSTALLATION DETAIL	LF	3000	\$240	\$720,000
4	INSTALL MANHOLE PER ADS 60" HDPE MANHOLE WITH 30" SOLID COVER	EA	5	\$9,000	\$45,000
5	CONSTRUCT DRAINAGE INLET PER CALTRANS STD. PLAN RSP D73D, TYPE GT3 WITH ADS FLEX STORM PURE INLET FILTER (OR EQUAL)	EA	1	\$10,000	\$10,000
6	RELOCATION OF EXISTING WATER, WATER LATERAL, SEWER LATERAL, AND MISC. ITEMS	LS	1	\$40,000	\$40,000
7	MAXWELL PLUS DRAINAGE SYSTEM (40' DEEP)	EA	5	\$40,000	\$200,000
IMPROVEMENTS COST SUBTOTAL				\$	1,090,360