

RCFC & WCD

2018

August 21, 2019

Calendar On

2018 - 0089 -

DATE

PROJECT NUMBER

INDIO MDP- AVE 49

PROJECT NAME

CONSTRUCTION COST	\$	<u>1,989,156</u>
PLUS 22% LUMP SUM ITEMS	+	<u>437,614</u>
PLUS 12% CONTINGENCY	+	<u>238,699</u>
SUBTOTAL	=	<u>2,665,469</u>
ENV. MITIGATION COSTS	+	<u>0</u>
PLUS 25% ENG & ADMIN	+	<u>556,964</u>
PLUS 3% MSHCP MITIGATION FEE	+	<u>66,836</u>
RIGHT-OF-WAY	+	<u>0</u>
TOTAL \$		<u>3,289,000</u>

DATE OF R/W ESTIMATE

ADDITIONAL INFORMATION

PROJECT
LENGTH
00 + 00

RESPONSIBLE
SECTION



ENGR. INT.

PROJECT TYPE:

Flood Control Water Conservation Water Quality Enhancement Ground Water Recharge

Other CITY OF INDIO MDP

PROJECT DESCRIPTION:

AVENUE 49 MDP DRAINAGE FACILITY, INCLUDING STORM DRAIN PIPE AND CATCH BASINS ON AVENUE 49 AND OUTLET TO MONROE BASIN, MONROE DETENTION BASIN, INFILTRATION TRENCH ON HJORTH STREET AND MONROE STREET.

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
2018 PROJECT PLANNING COSTS**

PROJECT DESCRIPTION: **INDIO MDP- AVE 49**

ITEM	UNIT	QUANTITY	CRITERIA	2018 Cost	TOTAL
TRAP. CHANNEL EXCAVATION	CY		b > 8	\$6.60	
			b ≤ 8	\$9.20	
RCB & RECT. CHAN. EXCAVATION	CY		b > 12	\$8.00	
			b ≤ 12	\$12.10	
COMPACTED FILL	CY		EXC > FILL	\$3.25	
			EXC < FILL	\$7.30	
STRUCTURE BACKFILL	CY			\$10.40	
TRAP. CHANNEL CONCRETE	CY		b > 8 ¹	\$380.00	
			b ≤ 8	\$480.00	
R.C.B. CONCRETE (INCLUDING STEEL)	CY		L > 150	\$720.00	
			L < 150	\$860.00	
RECT. CHAN. CONC. (INCLUDING STEEL)	CY		L > 150	\$440.00	
			L < 150	\$615.00	
CUTOFF WALL (2' TYP.)	LF			\$13.50	
SUBDRAIN	LF		6 < b ≤ 16	\$12.50	
			b > 16	\$25.00	
FENCING (6' TYP.)	LF			\$21.30	
CATCH BASINS	LF	140		\$560.00	\$78,400
MANHOLES (PIPE)	EA	4	FOR MAINLINE	\$6,200.00	\$24,800
		6	FOR JUNCTION	\$8,000.00	\$48,000
MANHOLES (RCB)	EA			\$2,100.00	
HOT MIX ASPHALT (HMA) TYPE A ³	SF			\$3.00	
CLASS 2 BASE (3" THICK)	SF			\$0.40	
ROCK SLOPE PROTECTION ⁴ CONC.-ROCK SLOPE PROTECTION	CY ²	20		\$80.00	\$1,600
				\$130.00	
STORM DRAINS	SEE STORM DRAIN COST SHEET				\$1,221,560
SLAB BRIDGES	LBS	SEE BRIDGE COST SHEET	REBAR CONCRETE	\$1.10	
	CY			\$540.00	
MISCELLANEOUS COSTS	SEE MISCELLANEOUS COST SHEET				\$455,400
DAM & BASIN COSTS	SEE DAM & BASIN COST SHEET				\$159,396
1. No.4 bars at 18 inches 2. 1.9 tons/cy 3. Includes 4" A.C. & 8" A.B. 4. Use 75% for large installations (>1000cy) 5. Use 125% of rock slope protection to determine concreted-rock quantity 6. i.e. Mobilization, Water Control, etc. 7. Connector pipe, etc. 8. Cell typically only used for ADP Updates.	CONSTRUCTION COST				\$1,989,156
	LUMP SUM ITEMS (22%) ⁶				\$437,614
	CONTINGENCIES (12%) ⁷				\$238,699
	SUBTOTAL				\$2,665,469
	ENG & ADMIN. (25%); MSHCP MITIGATION FEE: (3%) ? <input checked="" type="checkbox"/> ON FOR YES				\$623,799
AS-BUILT COSTS ⁸				\$0	
ENV. MITIGATION COSTS (LS)				\$0	
R/W (FROM R/W SHEET)				\$0	
R/W (FROM DAM & BASIN SHEET)				\$0	
rev. 9/21/2017					
NAME & DATE				TOTAL	\$3,289,268
08/21/19					

PROJECT DESCRIPTION: INDIO MDP- AVE 49

STORM DRAIN COSTS FOR: DESERT AREA

INSIDE DIA. (INCHES)	AC COVER? ENTER Y or N	LENGTH OF PIPE (FT)	PIPE (\$/FT)	IN PLACE (\$/FT) W/O AC	IN PLACE (\$/FT) W/AC	TOTAL
18	Y	320 FT	\$137		\$177	\$56,640
24	Y	60 FT	\$156		\$202	\$12,120
30	Y	800 FT	\$181		\$233	\$186,400
36	Y		\$209		\$269	\$0
42	Y	1900 FT	\$239		\$306	\$581,400
48	Y	1100 FT	\$276		\$350	\$385,000
		4180 FT				
STORM DRAIN TOTAL						\$1,221,560

MISCELLANEOUS COSTS

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
HJORTH STREET INFILTRATION TRENCH	1000	LF	\$210	\$210,000
MAXWELL PLUS - 40' DEPTH	3	EA	\$40,000	\$120,000
UTILITY RELOCATION	4180	LS	\$30	\$125,400
MISCELLANEOUS TOTAL				\$455,400

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
2018 DAM/BASIN COST ESTIMATE FORM**

DAM/BASIN NAME: INDIO MDP- AVE 49

ITEM	UNIT	QUANTITY	CRITERIA	2018 Cost	TOTAL	
EXCAVATION (Off-site Disposal)	CY	16200	Use Lower Channel Excavation Unit Cost	\$6.60	\$106,920	
EXCAVATION (Used on site)	CY		60% of Lower Channel Excavation Unit Cost	\$4.00		
EMBANKMENT	CY		Compacted Fill Unit Cost ¹	\$3.25		
SPILLWAY CONCRETE ²	CY	10	Use Lower RCB Unit Cost	\$720	\$7,200	
ROCK (SPILLWAY) U/S SIDE ³	CY			\$80.00		
D/S SIDE ⁴	CY			\$80.00		
CONCRETED ROCK	CY			\$130.00		
ROCK (MISC.)	CY			\$80.00		
CONCRETED ROCK (MISC.)	CY			\$130.00		
OUTLET PIPE DIAMETER	IN	18	RCP unit cost w/o AC =	\$158		
LENGTH	LF	100	1.5 x RCP unit cost w/o AC =	\$237	\$23,700	
DEBRIS OUTLET STRUCTURE	EA		500 x unit cost of RCP outlet pipe	\$68,500		
OUTLET STRUCTURE	EA	1	30 x RCP unit cost	\$4,110	\$4,110	
CLASS 2 BASE (3" THICK)	SF			\$0.40		
FENCING (6' TYP.)	LF	820		\$21.30	\$17,466	
			SUBTOTAL		\$159,396	
				LUMP SUM ITEMS (22%) ⁵		\$35,067
				CONTINGENCIES (12%) ⁶		\$19,128
			ENG & ADMIN. (25%) MITIGATION (3%) ?	<input checked="" type="checkbox"/> ON FOR YES	\$49,987	
			SUBTOTAL (AS-BUILT)			
				SUBTOTAL		\$263,577
			R/W (AC.)	COST/AC.	\$0	
				/ac. = -->		
NAME & DATE						
8/21/19				TOTAL	\$263,577	

1. If dam, add 50% for precompaction, filter, subdrain, etc.
2. Assume rectangular section; slab t = 12"; walls t = 9"
3. U/S side: quantity = ((spillway width + 20') x 50' x 2')/27
4. D/S side, grouted: quantity = (spillway width x 40' x 3')/27
D/S of concreted-rock slope protection: quantity = (spillway width x 80' x 4')/27
5. Mobilization, Water Control, etc.
6. Connector pipe, etc.

rev. 9/21/2017