

Capital Improvement Project Sheet

Project:	Well 12 Pump Replacement
Project No:	MW-0238
Cost Center	Ord Community Water

Project Description
 Replacement of Well 12 motor, pump, column, and shaft assembly and the installation of a transducer to monitor water levels. Change pump to water lubed bearings.
 Develop and implement well rehabilitation program

Project Justification
 The Well 12 motor, pump, column and shaft assembly have reached the end of their useful life. In addition, the well has experienced frequent bacterial problems thwill require mechanical rehabilitation such as swabbing and airlifting and possibly chemical rehabilitation depnding on especiation.

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services								0
Design								
External Services			60,000					60,000
Internal Services			10,000					10,000
Construction								
External Services		0	320,000					320,000
Internal Services		0	10,000					10,000
Property / Easement Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	0	0	400,000	0	0	0	0	400,000

Project Funding / Cost Centers	G L Code	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
01 - Marina Water		100%	0	0	400,000	0	0	0	0	400,000
03 - Ft Ord Water		0%	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			0	0	400,000	0	0	0	0	400,000

Estimated Project Expenditures for FY 17/18:				Budget	Special Notes
"Class "2" Cost Opinion: Estimated Range varies (-10%→+25%)"					
Project: Well 12 Pump Replacement					
1- Design & Planning Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 10,000	No Design plans needed
	External Services: (Attorneys, Consultants)			\$ 60,000	
Total Design & Planning Cost:				\$ 70,000	
2- Construction & Installation Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 10,000	Project/Construction Management
	External Services: (Contractors)			\$ 320,000	Construction Contract(Labor/Material)
Total Construction & Installation Costs:				\$ 330,000	
Property / Easement Acquisition:					

Capital Improvement Project Sheet

Project:	Imjin Parkway Pipeline, Reservation Rd to Abrams Drive	Source:	Internal
Project No:	OW-0193	Index/Multiplier:	1.0
Cost Center	Ord Community Water	Inflation %:	2.0

Project Description
 This project entails the construction of approximately 2,800-LF of 12-inch PVC potable water pipeline in Imjin Parkway to improve connectivity within the B-Zone.

Project Justification
 This project is sequenced to coincide with the City of Marina Project to widen Imjin Parkway.

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services								0
Design								
External Services			90,000					90,000
Internal Services			12,000					12,000
Construction								
External Services				450,000				450,000
Internal Services				10,800				10,800
Property / Easement Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	0	0	102,000	460,800	0	0	0	562,800

Project Funding / Cost Centers	GL Code	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
01 - Marina Water		0%	0	0	0	0	0	0	0	0
03 - Ft Ord Water		100%	0	0	102,000	460,800	0	0	0	562,800
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			0	0	102,000	460,800	0	0	0	562,800

Estimated Project Expenditures for FY 17/18:				Budget	Special Notes
"Class "3" Cost Opinion: Estimated Range varies (-20%→+35%)"					
Project: Imjin Parkway Pipeline, Reservation Rd to Abrams					
1- Design & Planning Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 12,000	Studying project scope & alternatives
	External Services: (Attorneys, Consultants)			\$ 90,000	Contract with roadway designer
Total Design & Planning Cost:				\$ 102,000	
2- Construction & Installation Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ -	
	External Services: (Contractors)			\$ -	
Total Construction & Installation Costs:				\$ -	
Property / Easement Acquisition:					

Capital Improvement Project Sheet

Project:	Gigling Transmission from D Booster to JM Blvd	Source:	Internal
Project No:	OW-0201	Index/Multiplier:	1.0
Cost Center	Ord Community Water	Inflation %:	2.0

Project Description
 This project entails the construction of approximately 1,800-LF of 12-inch PVC potable water pipeline to replace an existing 12-inch AC pipeline installed by the Army. The section of pipeline being installed will be within the Gigling Road alignment from the D-BPS and extending to the west of the General Jim Moore Boulevard intersection. The work is sequenced with FORA's widening of the road.

Project Justification
 This project was originally identified in the Ord Community Water Distribution Master Plan (2004, RBF). Staff identified the need to increase the scope of the project based on the existing condition and installation failings of the facility. The condition and installation failings were discovered in 2011 through a significant water outage event. Staff has re-estimated the cost of this CIP based on the new scope (thus the Source of the project is now Internal).

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services	1,800							1,800
Design								
External Services			107,100					107,100
Internal Services			2,000					2,000
Construction								
External Services				321,300				321,300
Internal Services				10,800				10,800
Property / Easement Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	1,800	0	109,100	332,100	0	0	0	443,000

Project Funding / Cost Centers	G L Code	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
01 - Marina Water		0%	0	0	0	0	0	0	0	0
03 - Ft Ord Water		100%	1,800	0	109,100	332,100	0	0	0	443,000
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			1,800	0	109,100	332,100	0	0	0	443,000

Estimated Project Expenditures for FY 17/18:				Budget	Special Notes			
"Class "3" Cost Opinion: Estimated Range varies (-20%→+35%)"								
Project: Gigling Transmission from D Booster to JM Blvd								
1- Design & Planning Costs:								
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 2,000	Studying project scope & alternatives			
	External Services: (Attorneys, Consultants)			\$ 107,100				
Total Design & Planning Cost:				\$ 109,100				
2- Construction & Installation Costs:								
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ -				
	External Services: (Contractors)			\$ -				
Total Construction & Installation Costs:				\$ -				
Property / Easement Acquisition:								

Capital Improvement Project Sheet

Project:	South Boundary Road Pipeline	Source:	Internal
Project No:	OW-00202	Index/Multiplier:	1.0
Cost Center	Ord Community Water	Inflation %:	2.0

Project Description
 This project entails the construction of approximately 5,600-LF of 16-inch and 12-inch potable water pipeline in South Boundary Road to serve Del Rey Oaks and Monterey.

Project Justification
 This project is sequenced to coincide with the FORA project to widen South Boundary Road.

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services								0
Design								
External Services		0	200,000					200,000
Internal Services		0	5,000					5,000
Construction								
External Services				1,284,000				1,284,000
Internal Services				5,000				5,000
Property / Easement Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	0	0	205,000	1,289,000	0	0	0	1,494,000

Project Funding / Cost Centers	G L Code	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
01 - Marina Water		0%	0	0	0	0	0	0	0	0
03 - Ft Ord Water		100%	0	0	205,000	1,289,000	0	0	0	1,494,000
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			0	0	205,000	1,289,000	0	0	0	1,494,000

Estimated Project Expenditures for FY 17/18:				Budget	Special Notes			
"Class "4" Cost Opinion: Estimated Range varies (-30%→+50%)"								
Project: South Boundary Road Pipeline								
1- Design & Planning Costs:								
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 5,000	Coordiante contracts			
	External Services: (Attorneys, Consultants)			\$ 200,000	Contract with roadway designer			
Total Design & Planning Cost:				\$ 205,000				
2- Construction & Installation Costs:								
	Internal Services : MCWD Staff time (Eng, O&M,Finances)							
	External Services: (Contractors)							
Total Construction & Installation Costs:				\$ -				
Property / Easement Acquisition:								

Capital Improvement Project Sheet

Project:	Inter-Garrison Road Pipeline Up-Sizing	Source:	Internal
Project No:	OW-0206	Index/Multiplier:	1.0
Cost Center	Ord Community Water	Inflation %:	2.0

Project Description
 This project entails the construction of approximately 1700-LF of 18-inch potable water pipeline in InterGarrison Road between Abrahms Drive and East Garrison to replace the existing 12-inch main. This will allow the District to meet commercial fire flows in East Garrison prior to building a B-Zone reservoir.

Project Justification
 The East Garrison Developer has completed construction of the Phase 2 infrastructure and is building homes in the area. Commercial development may occur within the next 1-2 years.

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services								0
Design								
External Services		50,000						50,000
Internal Services		2,000						2,000
Construction								
External Services			589,124					589,124
Internal Services			10,000					10,000
Property / Easement Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	0	52,000	599,124	0	0	0	0	651,124

Project Funding / Cost Centers	G L Code	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
01 - Marina Water		0%	0	0	0	0	0	0	0	0
03 - Ft Ord Water		100%	0	52,000	599,124	0	0	0	0	651,124
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			0	52,000	599,124	0	0	0	0	651,124

Estimated Project Expenditures for FY 17/18:				Budget	Special Notes
"Class "2" Cost Opinion: Estimated Range varies (-10%→+25%)"					
Project: Inter-Garrison Road Pipeline Up-sizing					
1- Design & Planning Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ -	Manage contract
	External Services: (Attorneys, Consultants)			\$ -	Design
Total Design & Planning Cost:				\$ -	
2- Construction & Installation Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 10,000	Const. Mgt
	External Services: (Contractors)			\$ 589,124	Construction
Total Construction & Installation Costs:				\$ 599,124	
Property / Easement Acquisition:					

Capital Improvement Project Sheet

Project:	Ord Village LS & Force Main Improvements	Source:	OC Sewer TM
Project Number:	OS-0147	Index/Multiplier:	1.0
Cost Center:	Ord Community Sewer	Inflation %:	2.0

Project Description

This project includes constructing a new force main and renovating the lift station.

Project Justification:

The existing lift station & force main has broken causing spills and several point repairs.
The existing pumps were replaced with Flygt pumps in 2016.

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services								0
Design								
External Services		0	60,000					60,000
Internal Services		0	6,000					6,000
Construction								
External Services	100,000		640,000	0				740,000
Internal Services	10,000		14,000	0				24,000
Property / Easement Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	110,000	0	720,000	0	0	0	0	830,000

Project Funding / Cost Centers	G L Code	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
02 - Marina Sewer		0%	0	0	0	0	0	0	0	0
04 - Ft Ord Sewer		100%	110,000	0	720,000	0	0	0	0	830,000
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			110,000	0	720,000	0	0	0	0	830,000

Estimated Project Expenditures for FY 17/18:				Budget	Special Notes
"Class "4" Cost Opinion: Estimated Range varies (-30%→+50%)"					
Project: Ord Village LS & Force Main Improvements					
1- Design & Planning Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 6,000	Coordiante contracts
	External Services: (Attorneys, Consultants)			\$ 60,000	
Total Design & Planning Cost:				\$ 66,000	
2- Construction & Installation Costs:					
	Internal Services : MCWD Staff time (Eng, O&M,Finances)			\$ 14,000	Project/Construction Management
	External Services: (Contractors)			\$ 640,000	Construction Contract(Labor/Material)
Total Construction & Installation Costs:				\$ 654,000	
Property / Easement Acquisition:					

Capital Improvement Project Sheet

Project:	Imjin LS & Force Main Improvements - Phase I	Source:	OC Sewer TM
Project Number:	OS-0205	Index/Multiplier:	1.0
Cost Center:	Ord Community Sewer	Inflation %:	2.0

Project Description
 The first phase of this project includes constructing another wetwell, installing two Flygt pumps with all accessories and appurtenances and space to add a third pump. The second Phase will be to install the third pump and replace the forcemain in conjunction with the Imjin Road widening project.

Project Justification:
 The existing lift station and forcemain can't handle all the anticipated wastewater flows from East Garrison, UCMBEST, Marina Airport, Existing Marina lift Station as was stated in the Ord Community Wastewater Master Plan; the project will be split into two phases and is necessary to accommodate near to long term future development

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services								0
Design								
External Services	20,000	45,000	40,000					105,000
Internal Services	2,000	5,000	4,000					11,000
Construction								
External Services			596,000					596,000
Internal Services			10,000					10,000
Property Easement / Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	22,000	50,000	650,000	0	0	0	0	722,000

Project Funding / Cost Centers	G L CODE	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
02 - Marina Sewer			0	0	0	0	0	0	0	0
04 - Ft Ord Sewer		100%	22,000	50,000	650,000	0	0	0	0	722,000
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			22,000	50,000	650,000	0	0	0	0	722,000

Estimated Project Expenditures for FY 17/18:				Budget	Special Notes
"Class "4" Cost Opinion: Estimated Range varies (-30%→+50%)"					
Project: Imjin LS & Force Main Improvements - Phase I					
1- Design & Planning Costs:					
Internal Services : MCWD Staff time (Eng, O&M,Finances)				\$ 4,000	Master plan integration, scope, conceptual design
External Services: (Attorneys, Consultants)				\$ 40,000	commencing design/ plans preparation
Total Design & Planning Cost:				\$ 44,000	
2- Construction & Installation Costs:					
Internal Services : MCWD Staff time (Eng, O&M,Finances)				\$ 10,000	Project/Construction Management
External Services: (Contractors)				\$ 596,000	Construction Contract(Labor/Material)
Total Construction & Installation Costs:				\$ 606,000	
Property / Easement Acquisition:					

Capital Improvement Project

Project:	Corporation Yard Demolition and Rehab	Source:	OC Sewer TM
Project Number:	WD - 0106	Index/Multiplier:	1.0
Cost Center:	Water District Wide	Inflation %:	10.0

Project Description
 This project includes demolishing 2 buildings, installing a storage building and remodeling the Ord office for technology and work space.

Project Justification
 Equipment stored outside exposed to the elements deteriorates and rusts long before the useful life

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services								0
Internal Services								0
Design								
External Services			30,000	20,000				50,000
Internal Services			10,000	5,000				15,000
Construction								
External Services			450,000	365,000				815,000
Internal Services			10,000	10,000				20,000
Property Easement / Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	0	0	500,000	400,000	0	0	0	900,000

Project Funding / Cost Centers	G L CODE	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
01 - Marina Water		25%	0	0	125,000	100,000	0	0	0	225,000
02 - Marina Sewer		7%	0	0	35,000	28,000	0	0	0	63,000
03 - Ft Ord Water		54%	0	0	270,000	216,000	0	0	0	486,000
04 - Ft Ord Sewer		14%	0	0	70,000	56,000	0	0	0	126,000
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			0	0	500,000	400,000	0	0	0	900,000

Estimated Project Expenditures for FY 17/18:				Budget		Special Notes	
"Class "4" Cost Opinion: Estimated Range varies (-30%→+50%)"							
Corporation Yard Demolition and Rehab							
1- Design Planning Costs:							
Internal Services: MCWD Staff Time (Eng. O&M, Finance)				\$ -	\$ 10,000	Civil Design & Permitting	
External Services: (Attorney, Consultants)				\$ -	\$ 30,000	Air Board Fees, Electrical and Structural design	
Total Design and Planning Cost:				\$ -	\$ 40,000		
2- Construction & Installation Costs:							
Internal Services: MCWD Staff Time (Eng. O&M, Finance)				\$ -	\$ 10,000	Construction Award, Management & Oversight	
External Services: (Contractors)				\$ -	\$ 450,000	Equipment, Materials & Labor	
Total Construction and Installation Cost				\$ -	\$ 460,000		
Property / Easement Acquisition						None	

Capital Improvement Project Sheet

Project:	Recycled Trunk Main and Booster, MRWPCA to Normandy	Source:	RW Design
Project No:	RW-0156	Index/Multiplier:	San Francisco
Cost Center:	Recycled Water	Inflation %:	2.0

Project Description
 This project is for completing the Recycled Water conveyance facilities between the MRWPCA treatment facility and the D/E Reservoir Site south of Normandy on the Former Fort Ord. The project scope includes the design and construction of approximately 43,000-LF of 16-inch to 24-inch pipeline, a 2-MG storage tank (termed the Blackhorse Reservoir), and a Booster Pump Stations.

Project Justification
 The design and construction needs to be completed in order to implement Recycled Water as a water source to meet the needs of MCWDs' customers and to augment the current groundwater supply source for FORA.

PROJECT COSTS:	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
Cost Category / Phasing								
Planning								
External Services	2,000	20,000						34,000
Internal Services	2,000	10,000						12,000
Design								
External Services	50,000	400,000	400,000	50,000				900,000
Internal Services	5,000	40,000	200,000	24,000				269,000
Construction								
External Services	3,156,251		24,000,000	3,000,000	3,000,000		2,000,000	35,156,251
Internal Services			100,000	40,000	30,000			170,000
Property Easement / Acquisitions								0
Other Project Costs								0
Estimated Cost By Fiscal Year	3,215,251	470,000	24,700,000	3,114,000	3,030,000	0	2,000,000	36,541,251

Project Funding / Cost Centers	G L CODE	% Cost Splits	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY19/20	FY20/21	OUT YEARS	Total
05 - Recycled Water	05-00-160-510	100%	3,215,251	470,000	24,700,000	3,114,000	3,030,000	0	2,000,000	36,529,251
			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
Funding By Fiscal Year			3,215,251	470,000	24,700,000	3,114,000	3,030,000	0	2,000,000	36,529,251

Estimated Project Expenditures for FY 16/17:						Budget	Special Notes	0
"Class "3" Cost Opinion: Estimated Range varies (-20%→+35%)"								
Project: Recycled Trunk Main and Booster, MRWPCA to Normandy								
1- Design & Planning Costs:								
Internal Services : MCWD Staff time (Eng, O&M,Finances)						\$ 200,000	Design Review/coordination with MRWPCA	
External Services: (Attorneys, Consultants)						\$ 400,000	Design updates-possible rerouting.	
Total Design & Planning Cost:						\$ 600,000		
2- Construction & Installation Costs:								
Internal Services : MCWD Staff time (Eng, O&M,Finances)						\$ 100,000	Construction Award, Management & Oversight	
External Services: (Contractors)						\$ 24,000,000	Equipment, Materials & Labor	
Total Construction & Installation Costs:						\$ 24,100,000		
Property / Easement Acquisition:						Yet to be determined, pending negotiations.		