



Criteria	Value	Units	Criteria	Value	Units	Criteria	Value	Units	Criteria	Value	Units	Criteria	Value	Units
Design Flow			Grit Chamber			EQ Return Pumps			Secondary Treatment			Tertiary Filtration		
Average Dry Weather Flow	1.5	MGD	Type	Vortex	-	Type	Centrifugal	-	FFR Feed Pumps			Type	Rotating Disk	-
Peak Day Wet Weather Flow	6	MGD	Number	2	-	Number	2	-	Number	3	-	Units	2	-
5-Year Peak Wet Weather Flow (Instantaneous)	12.3	MGD	Diameter	7 to 8	ft	Capacity (Each)	695	gpm	Capacity (Each)	3,125	gpm	Disks Per Unit	12-18	-
10-Year Peak Wet Weather Flow (Instantaneous)	13	MGD	Capacity	4 (process) 7 (hydraulic)	MGD	TDH	45	feet	Capacity (Each)	3,125	gpm	Filter Area Per Disk	54-60	ft ²
Headworks			Grit Pumps			Motor Size	15	HP	TDH	62	feet	Total Submerged Filter Area	1,280	ft ²
Mechanical Screens			Type	Air Lift	-	Primary Treatment			Motor Size	75	HP	Design Loading Rate	3.25	gpm/ft ²
Type	Sieve auger screen	-	Number	2	-	Primary Clarifier			Fixed Film Reactor			Maximum Loading Rate	6	gpm/ft ²
Number	2	-	Capacity	200	gpm	Number	2 (1 new/1 existing)	-	Media Type	Cross Flow	-	Maximum Backwash (% of average flow)	5 %	
Openings	0.25	inch	Grit Handling			Type	Circular	-	Media Surface Area/Volume	32	ft ² /ft ³	Filter Backwash Pumps		
Capacity	3 to 4	MGD	Type	Huber Coanda (or Equivalent)	-	Maximum Design Flow (each)	6 to 7	MGD	Reactor Surface Area (Total)	2,514	ft ²	Type	Centrifugal	-
Manual Screen			Number	2	-	Diameter	55	feet	Media Depth	32	ft	Number	2	-
Type	Bar	-	Influent Metering			Side Water Depth	9.5 or 12 to 14	feet	Volume (Total)	81,060	ft ³	Capacity (Each)	150	gpm
Number	1	-	Type	Mag Meters	-	Surface Area (Each Tank)	2,376	ft ²	Tertiary Treatment			TDH	20	feet
Screen Opening Width	1	inch	Number	3	-	Overflow Rate at Average Dry Weather Flow (1.5 MGD)	631	gpd/ft ²	Filter Feed Pumps			Motor Size	5	HP
Capacity	10	MGD	Diameter	12	inch	Overflow Rate at 5-Year Peak Wet Weather Flow (12.3 MGD with 2 Units in Service)	2,588	gpd/ft ²	Type	Centrifugal	-			
Screenings Washer Compactor			Equalization			Primary Sludge/Scum Pumps			Number	3	-			
Number	1	-	EQ Storage Tank			Type	Progressive Cavity	-	Capacity (Each)	2,085	gpm			
Compactor Motor Size	3	HP	Compartments	2	-	Number	2	-	TDH	20	feet			
Grinder Motor Size	10	HP	Volume (Total)	0.6 (min)	MG	Capacity	100	gpm	Motor Size	20	HP			
						TDH	20	feet						
						Motor Size	5	HP						

0" = 1"
 VERIFY SCALES
 BAR IS ONE INCH
 LONG ON FULL
 SIZE DRAWING.
 IF NOT ONE INCH
 LONG ON THIS
 DRAWING, ADJUST
 SCALES ACCORDINGLY



REV	DATE	BY	APVD	DESCRIPTION

DESIGNED	M. TAKEMOTO	SUBMITTED: RMC PROJ ENGR
DRAWN	M. TAKEMOTO	
CHECKED		
APPROVED:		RMC ENGR

SAUSALITO - MARIN CITY SANITARY DISTRICT
**LIQUID PROCESS DIAGRAM AND
 DESIGN CRITERIA**

DWG NO	G-4
SHEET NO	OF
PROJ NO	055-003
DATE	OCTOBER 2011

FILENAME: G04_10-12-11_09-44am_mtakemoto XREFS: X-SMSD-TBLK YC--