SECTION 11197 - ANSI HORIZONTAL END SUCTION PUMPS

City of San Diego, CWP Guidelines

PART 1 - GENERAL

1.1	WORK OF	THIS SECTION
-----	---------	--------------

The WORK of this Section includes providing frame-mounted, centrifugal, horizontal end Α. suction pumps, with horizontal electric motors and all appurtenant work, conforming to ANSI B 73 standard.

1.2 **RELATED SECTIONS**

- Α. The WORK of the following Section applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 11175 Pumps, General

PART 2 PRODUCTS					
2.1	PUI	MP NAME: []	(P-[] through I	P-[])	
A.	Ger	neral: Horizontal end suction	n pumps shall o	conform	to the following requirements:
	1.	Number of pumping units	-[]	
	2.	Location -]]	
	3.	Service]-]	
	4.	Operation (hours per day)]-]	
	5.	Drive	-[C	onstan	t] [variable] speed.
B.	Оре	erating Conditions:			
	•	9			
	1.	Capacity (gpm) max. at design point min.	-[-[-[]]]	
		Capacity (gpm) max. at design point	-[-[
	1.	Capacity (gpm) max. at design point min.	-[-[

	5.	Liquid to be pumped	-[1
	6.	Specific gravity of liquid	-[1
	7.	Liquid temperature (degrees F)	-[1
	8.	Min pump efficiency at design point (percent)	-[1
	9.	Max pump speed (rpm)	-[1
	10.	Max motor speed (rpm)	-[1
	11.	Min motor size (hp)	-[1
C.	Pur	mp Dimensions:		
	1.	Impeller diameter, min (in)	-[1
	2.	Suction flange, min size (in)	-[1
	3.	Discharge flange, min size (in)	-[1
2.2	PUI	MP REQUIREMENTS		
A.		nstruction: Construction of horizontal bwing requirements:	al end-su	ction pumps shall conform to the
	1.	Casing	gaug perm	iron or ductile iron, foot-mounted, with e and drain connections. Backhead to it removal of impeller, shaft, and ngs, without disturbing piping.
	2.	Pump base		mon baseplate with drain pan of cast or steel with drain connection and pipe.
	3.	Impeller	open	nze] [ductile iron] [cast iron] [cast steel], , single suction type, screwed to shaft, O-ring seal.
	[4.	Wear ring	- [Bror	nze] [stainless steel]]
	5.	Shaft -	Stainle	ess steel, full size where in stuffing box.
	6.	Shaft sleeve	- "NO	ΓUSED"
	7.	Seal	-Split n	nechanical seal per Section 11175

at min. capacity

	[8.	Coupling -	Flexible shaft coupling, heavy duty type, with guard.]	
	9.	Frame	- Frame-mounted	
	10.	Bearings -	Ball or roller bearings, with an L-10 life of [50,000] hours.	
	11.	Lubrication	- [Grease] [Oil] lubricated.	
B.	hori	zontal, electric motor suitable for []-\	[variable speed drive] with heavy duty, volt, []-phase, 60-Hz ac power supply, in iable speed drive shall comply with Section [
2.3	SPA	ARE PARTS		
A.	A. The following spare parts shall be provided for each pump:			
	1.	3 sets of all gaskets and O-rings		
	2.	1 set of all pump bearings		
	3.	1 set of both wear rings		
	4.	1 set of packing rings or mechanical	seal	
B.	Spa	re parts shall be packaged and boxed	as indicated in Section 11000.	
2.4	MAI	NUFACTURERS		
A.	Prod	ducts shall be manufactured by one of	the following (or equal):	
	1.	Allis-Chalmers, model []		
	2.	Aurora, model []		
	3.	Fairbanks Morse (Colt), model []		
	4.	Goulds Pumps, model []		
	5.	Ingersoll-Rand, model []		
	6.	Pacific Pumping Company, model []	
	7.	Peerless Pumps (FMC), model []		

PART 3 -- EXECUTION

3.1 INSTALLATION

- A. Pumping equipment shall be installed in accordance with approved procedures submitted with the shop drawings and as indicated.
- B. General installation requirements shall be as indicated in Section 11175.

** END OF SECTION **