

THE HARBOR
ROCKWALL, TEXAS

REVISIONS

NO.	ISSUE/REVISION	DATE
1	ISSUED FOR PERMITS	08/17/06
2	AS BUILT - ADDENDUM	11/10/06

LAKE SIDE
PIPING RISER
PLAN

JOB NO. 4430
DATE 12.2005
DRAWN BY: GDR
CHECKED BY:
FILE: 4930-THEHARBOR-ASBUILT-110706
SHEET NUMBER

PFD LEGEND	
	LEVEL OPERATED BUTTERFLY VALVE
	GATE OPERATED BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	BALL VALVE
	FLEXIBLE COUPLING
	REDUCER
	PRESSURE GAUGE
	PRESSURE SWITCH
	TEMPERATURE SWITCH
	STANDARD CONTROLLED GLOBE
	FLOW METER
	FLOW VALVE
	DUMP VALVE

THE ENGINEERING INFORMATION ON THIS PAGE IS BASED ON THE FOLLOWING ASSUMPTIONS/STANDARDS:

- (1) WATER DISCHARGE FROM THE NOZZLES SHALL BE AT 20 FPS MAX FOR ALL NOZZLES.
- (2) PUMPS SHALL OPERATE WITH FLOODED SUCTION.
- (3) EQUIPMENT ROOM IS WITHIN 200 FT. OF TAILPIT.
- (4) DISCHARGE PIPING SHALL BE 12" DIA. MINIMUM.
- (5) DISCHARGE PIPE VELOCITY SHALL BE LESS THAN 8 FPS.
- (6) PUMP SUCTION MUST BE PROTECTED BY AN INLET STRAINER. PERFORATION SIZE SHALL BE 1/4" MAXIMUM.
- (7) GRAVITY DRAINS TO SLOPE MINIMUM 1/4" PER FOOT - MAXIMUM VELOCITY 3 FPS.
- (8) THE MAXIMUM FLUTATION TURNOVER FOR THE VOLUME OF WATER IN A NON INTERACTIVE WATER FEATURE SHALL NOT EXCEED 30 MINUTES.
- (9) THE WATER FEATURES SHALL COME EQUIPPED WITH AN AUTOMATIC CHEMICAL DOSING SYSTEM WITH A MINIMUM OF 2 SENSORS. ORP AND FREE CHLORINE AND CALCULATED HOLES ARE BASED UPON THE USE OF STANDARD NORTH AMERICAN SCHEDULE 80.
- (10) LOW VOLTAGE LIGHTING CALCULATIONS ARE BASED ON MAXIMUM 12.5, MIN 11.5 VOLTS AT THE LAMP USING MAXIMUM 13.5 VOLTS ON THE TRANSFORMER.

GENERAL NOTES: TOTAL SYSTEM VOLUME 453,356 GALLONS
SHR TURNDOWN RATIO 1000:1
AND 7' FROM LOWER POOL, SENSORS TO UPPER BOWL.

FEATURE WILL REQUIRE
DUE TO SIZE OF FEATURE
BEST POSSIBLE LOCATION FOR
ARCHITECT PRIOR TO INSTALLATION

NOZZLES, AERATOR
NOZZLES WITH SWIVEL
FITTING FOR PUMP RING
TYPICAL, 8 PLACES

AT-GRADE LEVEL THROTTLING
AREA, 500' IN DIAMETER

