

Electrical Notes

THIS DRAWING IS SUBJECT TO THE PROJECT'S
ARCHITECT AND/OR THE PROJECT ENGINEER'S
APPROVAL.

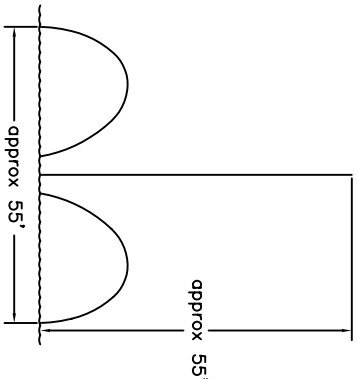
INSTALLATION OF ALL ELECTRICAL EQUIPMENT IS TO BE BY BUYER'S ELECTRICIAN. FLOATING UNIT CAN BE INSTALLED BY BUYER OR BY "HALL" IF INSTALLATION CHARGE IS INCLUDED IN FOUNTAIN CONTRACT.

ALL ELECTRICAL WORK MUST BE DONE BY A QUALIFIED ELECTRICIAN IN STRICT ACCORDANCE OF THE "NATIONAL ELECTRICAL CODE."

NOTE: LOCAL BUILDING CODES VARY FROM MUNICIPALITY TO MUNICIPALITY AND OVERIDE NATIONAL CODES. COMPLIANCE WITH LOCAL CODES MUST BE INDEPENDENTLY VERIFIED BY OWNER'S ARCHITECT AND/OR ENGINEER. ANY DEVIATION FROM LOCAL CODES MUST BE BROUGHT TO THE ATTENTION OF HALL FOUNTAINS, INC. IMMEDIATELY.

CONFIRM ALL MOTOR VOLTAGES AND PHASE FOR COMPATIBILITY BEFORE INSTALLATION.

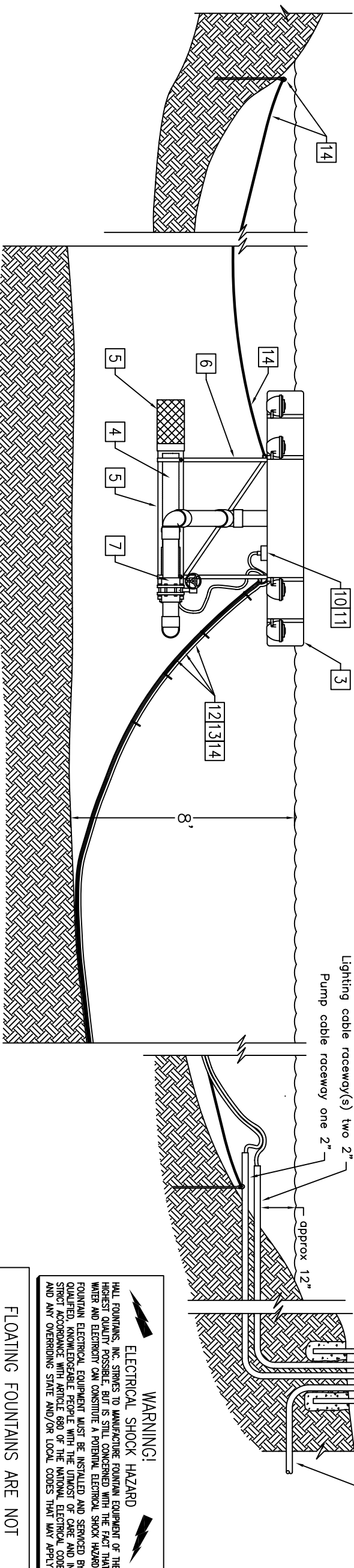
RUN ALTIMOUNTAIN POWER CABLE RACEWAYS USING PVC ELECTRICAL CONDUIT AND SNEEPEX IN THE SIZE INDICATED BELOW. ONE RACEWAY FOR EACH CABLE IS REQUIRED. RACEWAYS MUST ENTER LAKE APPROXIMATELY 12 INCHES BELOW NORMAL LOW WATER LEVEL, AND EXTEND INTO THE LAKE APPROX. 3 FEET. CABLE LENGTH 0 TO UNIT IS MEASURED FROM CONTROLLER TO THE UNIT. MOUNTING THE CONTROLLER A LONG DISTANCE FROM THE LAKE EDGE WILL LIMIT THE MAXIMUM DISTANCE THE UNIT CAN BE PLACED FROM THE EDGE OF THE LAKE.



Equipment by Hall

ITEM	QTY	DESCRIPTION
1	1	4"750 MACHINED BRASS SMOOTH BORE JET - features 1-3/4" discharge and 5" flanged inlet. Jet is mounted in unit for vertical alignment.
2	1	52" DIAMETER PVC SPRAY RING - precision formed from 3" schedule 80 PVC pipe with 56-1/4" brass smooth bore jets. Ring is fastened to frame with stainless steel U bolts and is incorporated into discharge manifold.
3	1	FF8 FLOAT ASSEMBLY - includes eight rotor-cost molded polyethylene sections each with threaded brass inserts, stainless steel hardware and ballast fill plugs. Assembly is 15" high, 95" outside and 70" inside.
4	1	25 H. P. SUBMERSIBLE TURBINE FOUNTAIN PUMP - motor features 208/230 volt (voltage must be specified at time of order) 3 phase 60Hz, 3505 RPM with stainless steel motor enclosure. Pump head features cast iron bowl with closed balanced impeller.
5	1	10" PUMP SUCTION TUBE AND INTAKE SCREEN - tube is fabricated from 10" schedule 40 PVC pipe, with stainless steel or bronze support spigot. Intake screen is fabricated from perforated 304 stainless steel sheet with 3/16" holes mounted to PVC slip fitting for removal. Tube as heavy PVC discharge adapter flange with power cord entry and hook up for discharge manifold.
6	1	STAINLESS STEEL EQUIPMENT MOUNTING FRAME - to support pump, manifold, and water features. Fabricated from 1-1/2" x 1-1/2" type 304 stainless steel angle with stainless steel fasteners for securing to float assembly.
7	1	PUMPING SYSTEM DISCHARGE MANIFOLD - custom fabricated from schedule 40 PVC pipe, fittings, and balancing valves to regulate and provide a maximum flow to all water features.
8	1	FOUNTAIN CONTROLLER - with a main disconnect and door handle, a three phase full-voltage starter with overload protection, contactors, timers, circuit breakers (standard or GF), and other controls, pre-wired to a terminal bar through pan-duct wiring trough and mounted on a removable locking plate in a NEMA Type 3R enclosure. Power is supplied from a remote breaker panel (by others).
9	12	SL5006T UL LISTED CAST BRONZE SUBMERSIBLE LIGHT - thermally protected, 500 watt, 120 volt (500PAR56WFL), with 10" type 16/3 cord and clear lens. Features machined gasket surface, and lens clearance to assure even gasket compression. Cord entry is encapsulated in epoxy to prevent the entrance of moisture. Features 8-3/8" tempered lens, neoprene gaskets, phosphor bronze cord seal, porcelain socket, and stainless steel fasteners.
10	2	480S UL LISTED CAST BRONZE UNDERWATER JUNCTION BOX - features neoprene gasket, stainless steel fastenings, eight threaded side openings with corrod seals and neoprene grommets (for 16/3 type ST cord), delrin plugs (for unused openings), and a FPI bottom for cord seal entrance. Box has lightning cord seal and lighting power cable installed, tested and potted with potting paraffin as per UL and section 680 of the National Electrical Code
11	2	CS3 WATERIGHT CORD SEAL - 1-1/4" MPT, UL listed seal designed for use with type ST-WA cord used in HALL JB series junction boxes listed above
12	2	250' LENGTH OF 8/4 TYPE ST/SO-WA SUBMERSIBLE POWER CABLE - for the fountain lighting power supply. Cable features 600 volt insulation and soft annealed copper. Sized according to the National Electric Code section 70-258.
13	1	250' LENGTH OF 2/4 TYPE ST/SO-WA SUBMERSIBLE POWER CABLE for the submersible pump power supply. Cable features 600 volt insulation and soft annealed copper, and is sized according to National Electric Code section 70-258. Cable is spliced to pump motor leads with a 3M Scotchcast splice kit.
14	3	AN8 FOUNTAIN UNIT ANCHOR & STAY ROPE - to secure the fountain unit in the desired location in the lake and provide a convenient means of pulling the unit to the shore for cleaning and servicing. Anchor is made of steel rod with welded eye. Stay rope is 1/2" polypropylene (length to match cables listed above)

Float Assembly - Plan View



Provide 150 AMP 208/230 volt 3 Phase 4 wire service (by others), Conduit and wire size by electrician

Only the items listed under the heading "Equipment by HALL" are to be supplied by HALL FOUNTAINS, INC.

Equipment to be ordered and any installation to be made from this drawing must be independently verified by the buyer's architect or engineer to determine that the same meets all governmental requirements and is acceptable for its intended application. The only liability assumed by HALL FOUNTAINS, INC. is for the quality of the equipment supplied as set forth in the materials warranty.

This drawing is the property of HALL FOUNTAINS, INC. and is to be used only for the installation of equipment purchased from HALL as a unit. This drawing is NOT to be used or reproduced in part or in whole without written permission from HALL.

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FALL

FOUNTAINS, INC.

Model:	MA250-3-12-250
Description:	

25 HP MALIBU
with 6000 watts
of lighting

Date Drawn:
7/31/99

Section through Lake at Fountain & Shoreline

WARNING!

ELECTRICAL SHOCK HAZARD

HALL FOUNTAINS, INC. STRIVES TO MANUFACTURE FOUNTAIN EQUIPMENT OF THE HIGHEST QUALITY POSSIBLE. BUT IS STILL CONCERNED WITH THE FACT THAT WATER AND ELECTRICITY CAN CONSTITUTE A POTENTIAL ELECTRICAL SHOCK HAZARD. FOUNTAIN ELECTRICAL EQUIPMENT MUST BE INSTALLED AND SERVICED BY QUALIFIED, KNOWLEDGEABLE PEOPLE WITH THE UTMOST OF CARE AND IN STRICT ACCORDANCE WITH ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE AND ANY OVERRULING STATE AND/OR LOCAL CODES THAT MAY APPLY.

FLOATING FOUNTAINS ARE NOT TO BE USED IN LOCATIONS WHERE SWIMMING OR OTHER WATER SPORTS ARE PERMITTED.