

Riverflow Plumbing notes

Review the following plumbing installation overview prior to installing the Riverflow™ system.

- All elevation measurements should be referenced from the pool's normal water line.
- We recommend that ALL Riverflow components, pipe and fittings be present at the job site before plumbing begins. Complete plumbing layout prior to poured concrete, Gunitite or Shotcrete to verify angles and elevations.
- Large diameter PVC fittings vary in size and dimension. Measure fittings for actual dimensions.
- Use only primer and solvent cement rated for 10-in. diameter or larger PVC pipe. (IPS Weldon 717)
- To insure sound glue joints, all pipe ends should be beveled and fully seated in fittings.
- Riverflow suction run(s) are normally level from pool to pump. However, Riverflow suction fittings can be installed up to a minimum of 12-in. below water line.
- For lazy river applications, nozzles should be 10"- 12" from the water level to the top of the nozzle.
- For swim in place applications, nozzles should be 5" from the water level to the top of the nozzle
- Keep all plumbing runs from pump to pool as straight as possible. Always use 45° elbow(s) rather than 90° elbow when possible. Always use sweep (long radius) 90's where possible Spears # P-300-100 & P-300-120. If the return run exceeds three 45° elbows, contact Riverflow support at Current Systems Inc. PST 805-339-9292 or EST 954-889-0311.
- All trenching and excavations must be backfilled and compacted to meet industry standards to support the Riverflow pump, fittings and pipe.
- Upon completion of plumbing and prior to motor installation, a 24"x 24" x 3" concrete stabilizing collar should be poured around the pump housing, leaving 1-in. clearance below the pump head nuts. Keep dirt, standing water, and shrubs off the pump head.

NOTE: All wall penetrations edges should be back-cut while cement is wet. Dry pack with hydraulic cement or similar industry approved material before the application of finish plaster.



RIVERFLOW SWIM CURRENT PLUMBING

Current Systems, Inc.
West Coast 805-339-9292
East Coast 954-889-0311

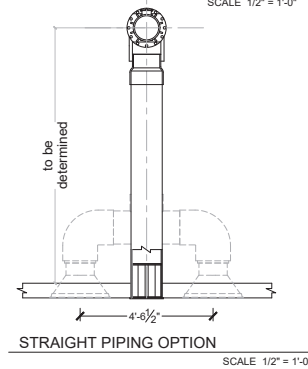
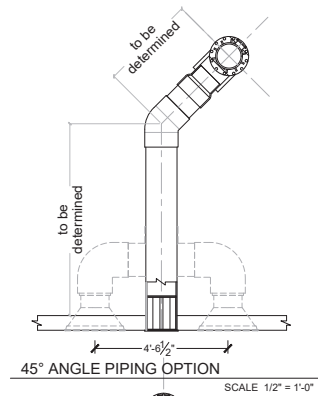
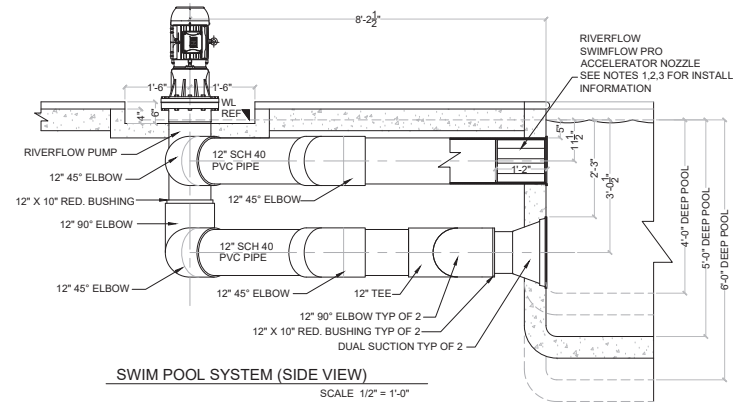
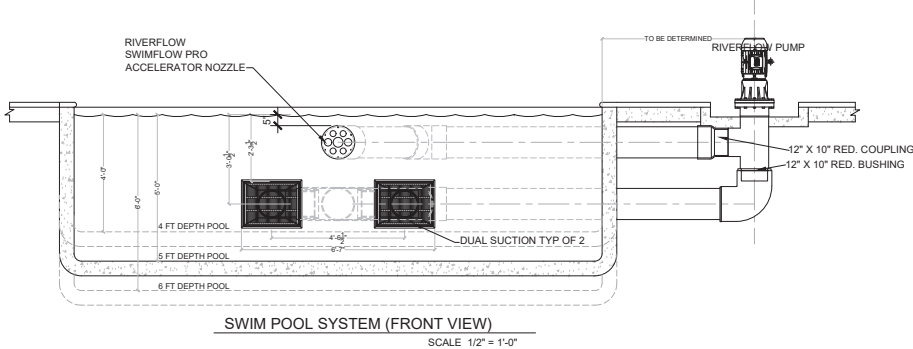
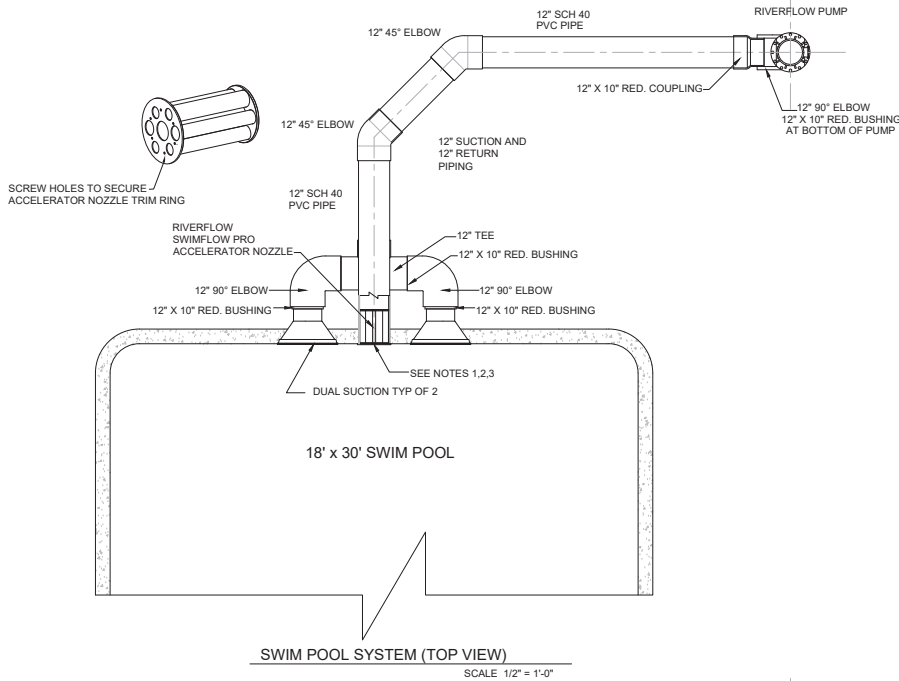
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Certified to ANSI/APSP/ICC-16 2017 and NSF/ANSI Standard 50

NOTES

- Trim 12" return pipe flush with shotcrete.
- Apply primer and PVC cement (IPS Weldon 717 or 719) to the entire circumference of the return pipe 12" to 14" back from the pool wall.
- Apply primer and PVC cement to the outside edge of the smaller nozzle disc.
- Apply a ¼" bead 100% Silicone adhesive sealant to the backside of the trim ring disc.
- Insert nozzle assembly into the return pipe pressing firmly to seat the 7 port thruster nozzle finish plate against the end of the pipe.
- Rotate nozzle so the four smallest openings are at the top and bottom. It is recommended that a level is used to align the openings on the horizontal plane.
- Install the provided # 8x3/4" screws to secure the trim ring to 7 Port Thruster face plate
- A snug fit is sufficient, do not over tighten.



PARTS LIST: SWIM IN PLACE SYSTEM		
	1 x	PUMP MOTOR
	1 x	RIVERFLOW PUMP
	1 x	VARIABLE SPEED DRIVE
	2 x	DUAL SUCTION BOX
	1 x	SWIMFLOW PRO ACCELERATOR NOZZLE
	3 x	10" SCH 40 PVC PIPE NIPPLE 10" LONG
	1 x	VARIABLE SPEED DRIVE WEATHER PROOF COVER
	3 x	12" 90° ELBOW
	1 x	12" TEE
	4 x	12" 45° ELBOW
	3 x	12" X 10" REDUCING BUSHING
		12" SCH 40 PVC PIPE TO BE DETERMINED AS PER PUMP LOCATION
	1 x	12" X 10" REDUCING COUPLING

BOX DENOTES COMPONENTS INCLUDED IN RIVERFLOW SYSTEM

ADDITIONAL REQUIRED ITEMS NOT INCLUDED

RIVERFLOW DATA BLOCK	
NSF #1245 & #1246	
PUMP TYPE	AXIAL FLOW PROPELLER
SUCTION	FLOODED 12" PVC PIPE
DISCHARGE	12" PVC PIPE
DUAL SUCTION	18" X 25" X 10" COUPLING (EACH)
GRATES & SUMP	14" LONG (1-4" X 2- 3" X 4-2")
ACCELERATOR	NOMINAL 3PSI
NOZZLE	ADJUSTABLE 400GPM > 2450GPM
SYSTEM PRESSURE	ELECTRONIC VARIABLE SPEED
FLOW RATE	15HP 230-240V Single Phase 40-2 Amp Draw
DRIVE	Motor 24.8 Amp draw
POWER	50 HZ - 60 HZ applications
INPUT Voltage	

RIVERFLOW SWIMPOOL COMPETITION SYSTEM DUAL SUCTION

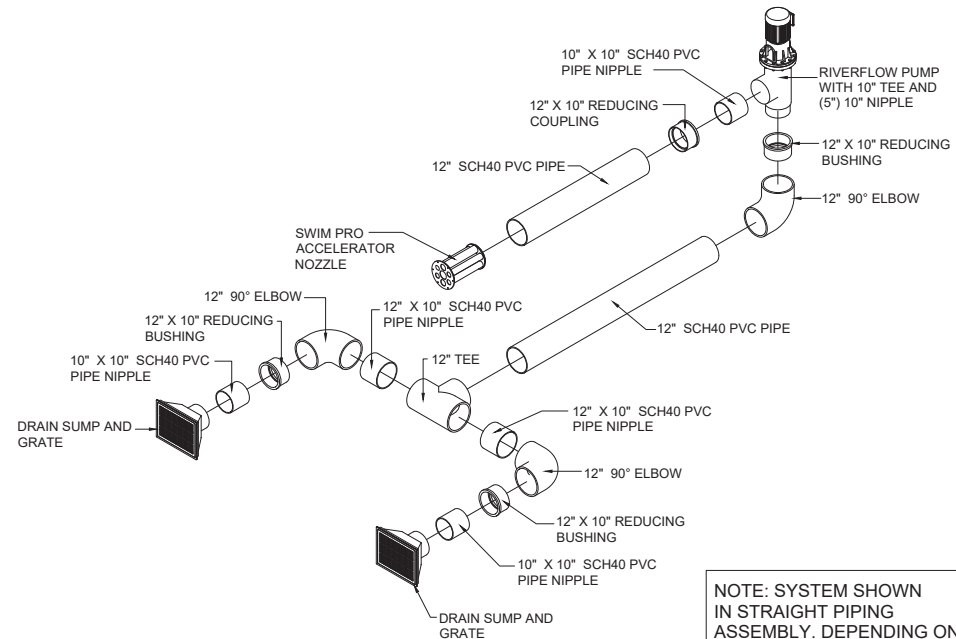
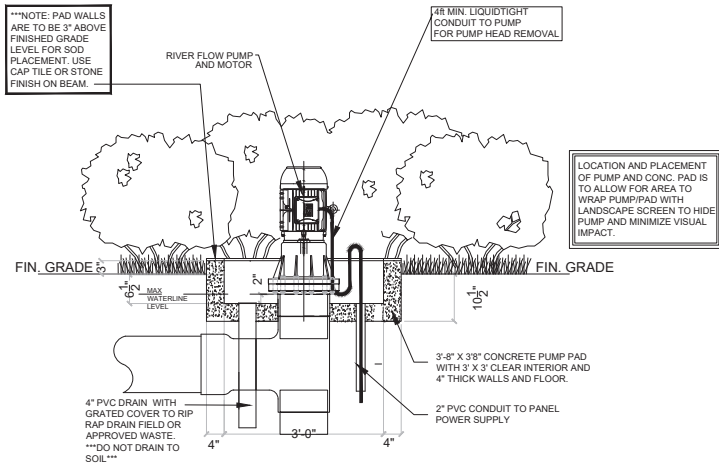
RIVERFLOW SWIM CURRENT SYSTEM

PROJECT NAME:

Current Systems Inc. Manufacturer of
Riverflow Systems
805-339-9292 Peter Davidson
California
354-888-0311 Phil de Tournillon
Florida
www.riverflowpumps.com

By Current Systems Inc.

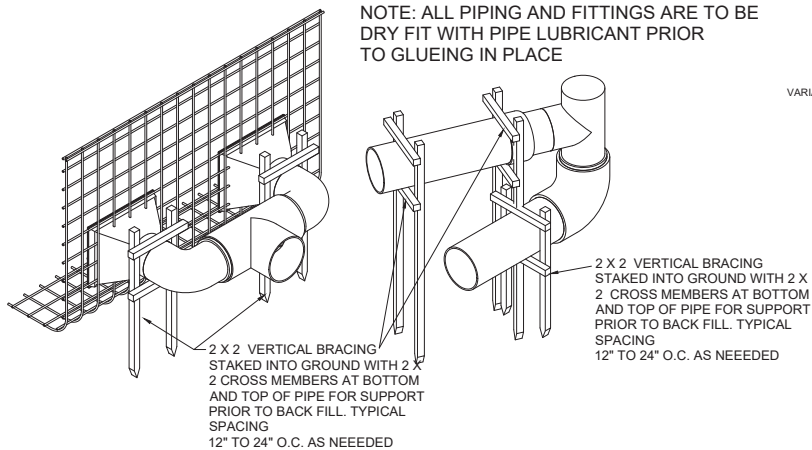
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NOTE: SYSTEM SHOWN IN STRAIGHT PIPING ASSEMBLY. DEPENDING ON PUMP LOCATION (PER PLAN) ANGLE PIPE FITTINGS MAY BE REQUIRED.

SWIM POOL SYSTEM (EXPLODED VIEW)

SCALE N.T.S.



PUMP AND PIPING SUPPORT DETAIL
SCALE N.T.S.



VARIABLE SPEED DRIVE

SINGLE PHASE CONVERTER TO RUN RIVERFLOW 3 PHASE MOTOR

REVISIONS
RIVERFLOW SWIMPOOL
COMPETITION SYSTEM
DUAL SUCTION 12 X 10
EXPLODED VIEW

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RIVERFLOW
SWIM CURRENT
SYSTEM

Current Systems Inc. Manufacturer of
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Smooth Powerful Current

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RIVERFLOW SWIMPOOL W/ FINISH TRIM



RIVERFLOW SWIMPOOL RETURN / DRAINS INSTALLED

REFERENCE
IMAGE

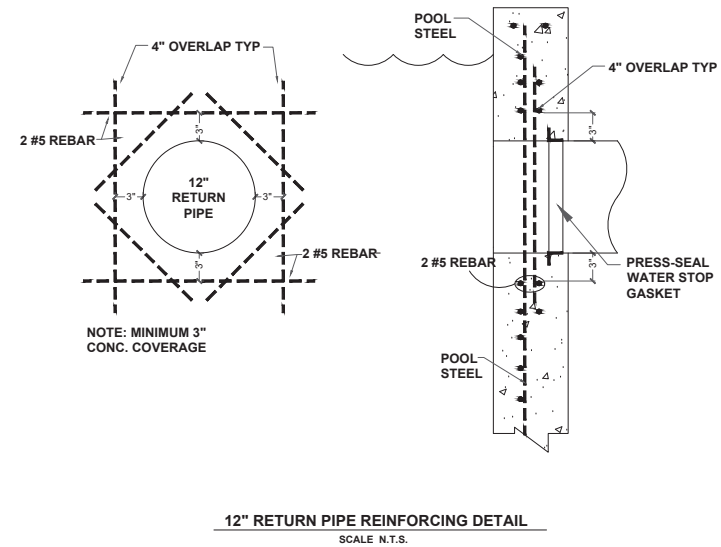
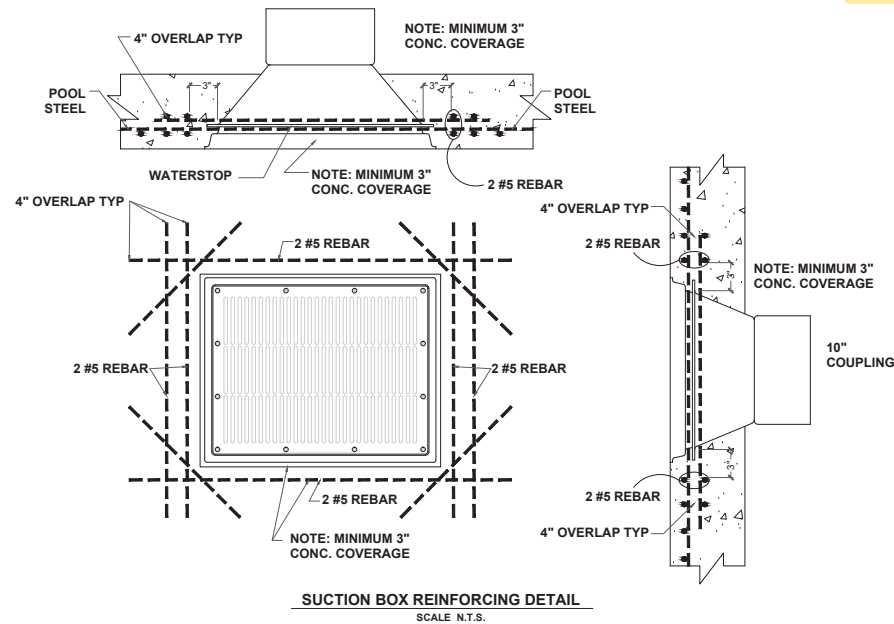
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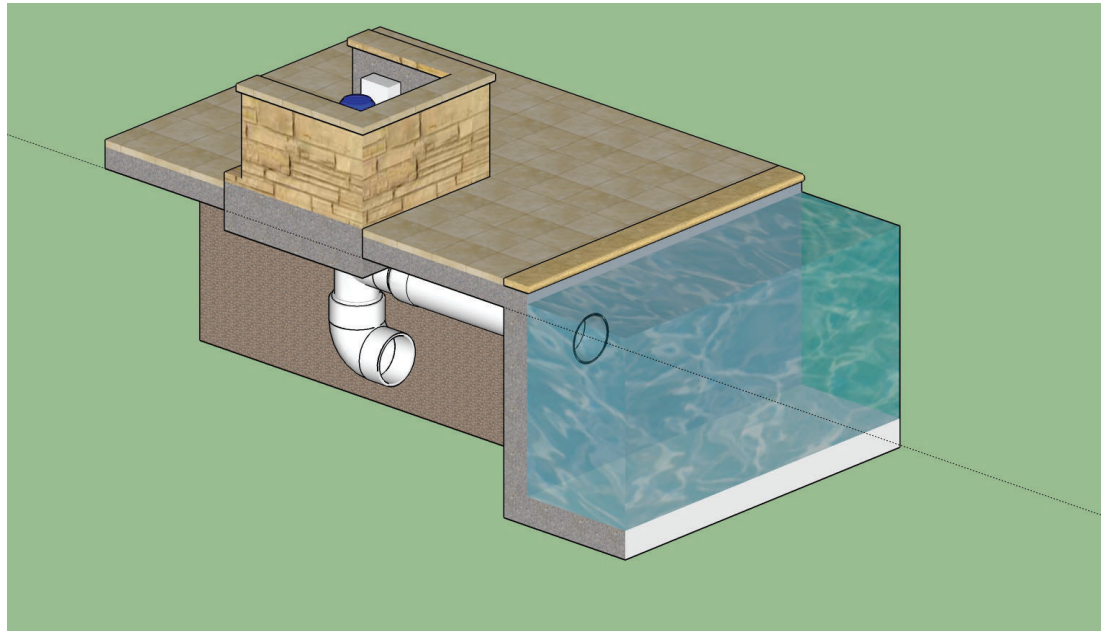
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EXAMPLE ONLY:
Must be done by
Structural Engineer



WAYS TO CONCEAL MOTOR



- BRICK WALL
- LANDSCAPING

REVISION
IMAGE
REFERENCES

RIVERFLOW
SWIM CURRENT
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