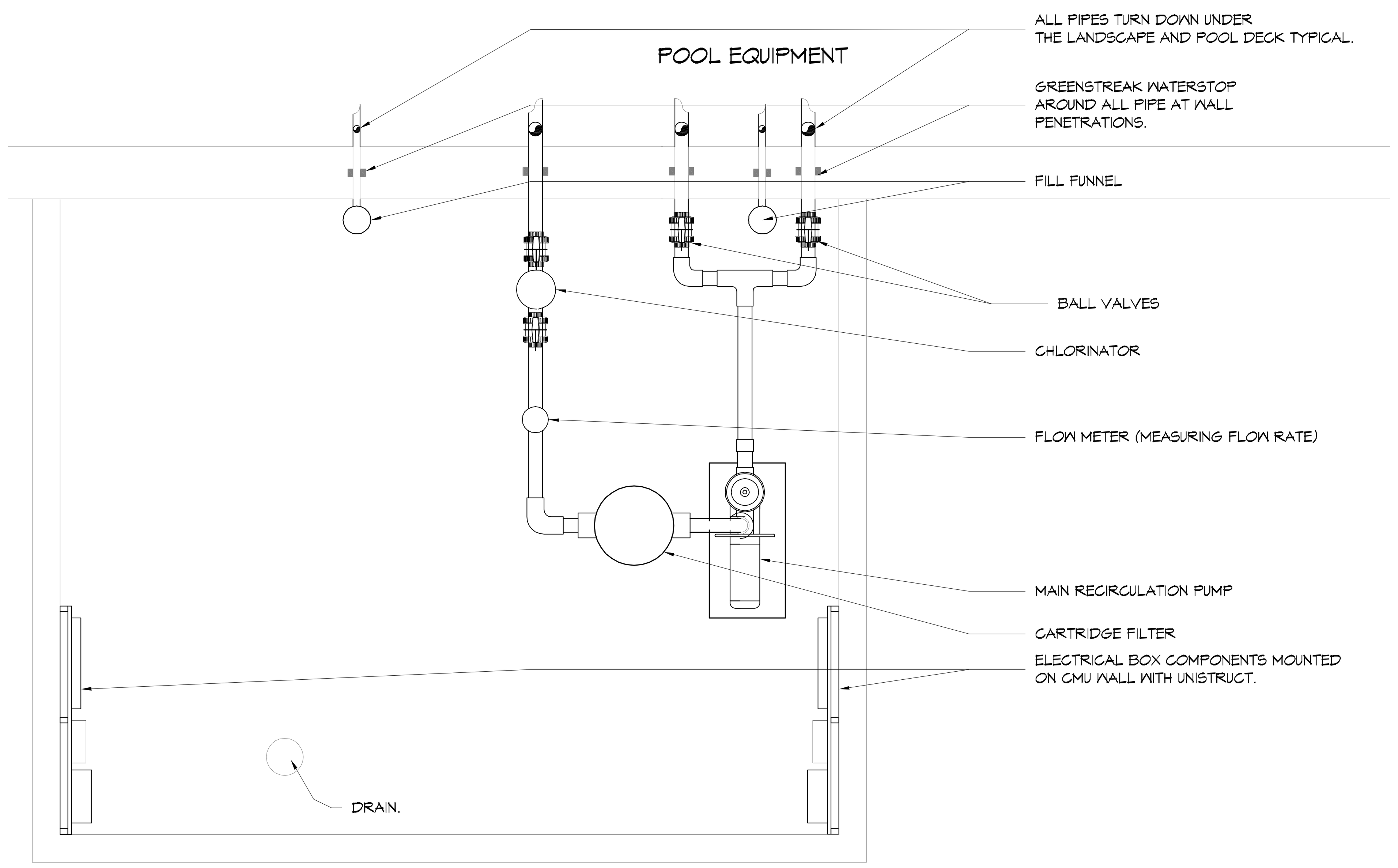


2 EQUIPMENT ROOM LAYOUT PLAN
SCALE: 1/4"=1'-0"

SYMBOL LEGEND

- LIGHTING FIXTURE
- POOL LADDER
- SKIMMER
- MAIN DRAIN
- WALL RETURN INLET
- VENTURI RETURN INLET

POOL CALCS

POOL WATER VOLUME = 10,000 GALLONS @ 75 GPM

TURN OVER RATE = 2.5 HR

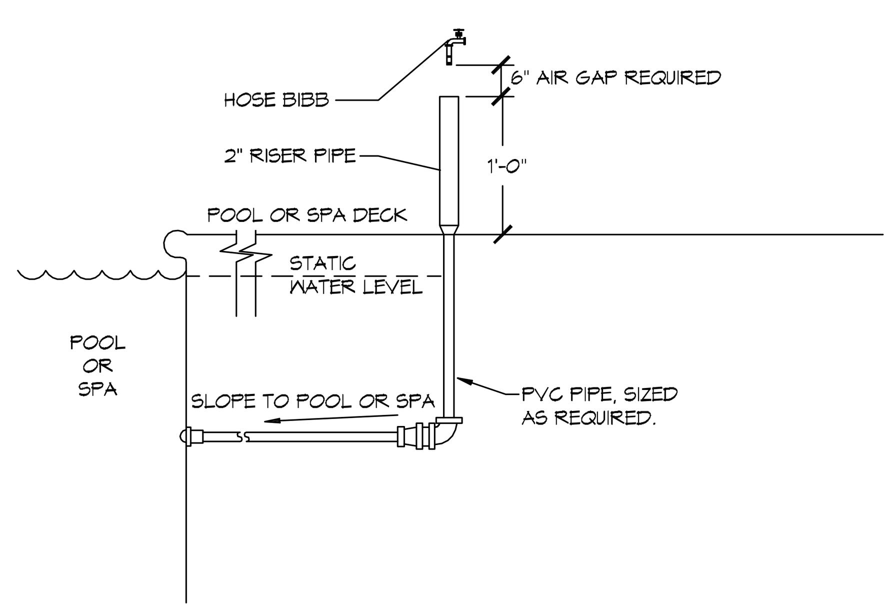
POOL WATER BODY PERIMETER = 119 LF.

RETURN HEAD LOSS CALCULATIONS @ 75 GPM	
2" PIPE 8.45' HEAD LOSS PER 100' (@200') =	16.9'
8 ELBOW =	5.8'
3 "TEES" =	1.8'
CHLORINATOR =	0.5'
CARTRIDGE FILTER =	5.0'
3 BALL VALVES (2") =	0.4'
2" FLOW METER	2.0
	@ 37.5 gpm
2" PIPE (HEAD LOSS = 2.25 @ 100')	2.2'
8 ELBOWS	1.5'
2 TEES	0.5'
4 3/4" DIRECTIONAL EYEBALLS	7.1'
TOTAL RETURN HEAD LOSS	43.7'

SUCTION HEAD LOSS CALCULATIONS	
200 ft. 2" PIPE @ 25 gpm (1.25 HEAD LOSS) =	2.5'
3 BALL VALVES =	0.1'
2 SKIMMERS	4.0'
2 MAIN DRAINS	5.0'
3 TEES @ 25 gpm	0.5'
1 TEE @ 75 gpm	1.0'
100 ft. 2" PIPE @ 75 gpm	8.5'
	21.6'

TOTAL SUCTION HEAD LOSS = 21.6"
TOTAL HEAD LOSS = 65.3

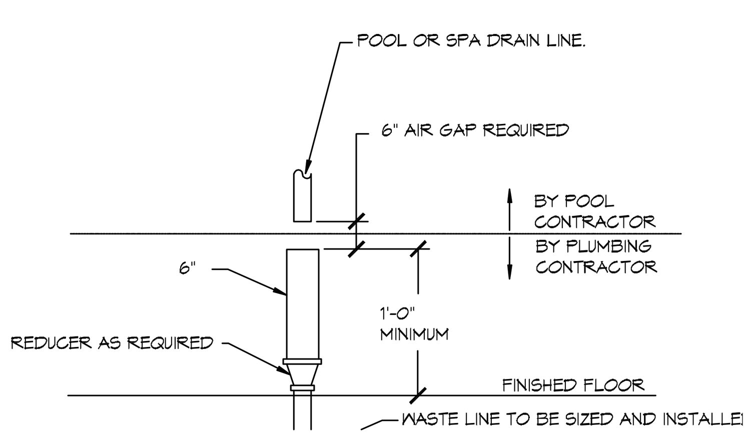
PUMP MODELS = SHPF 2.0 & SHPM 2.5



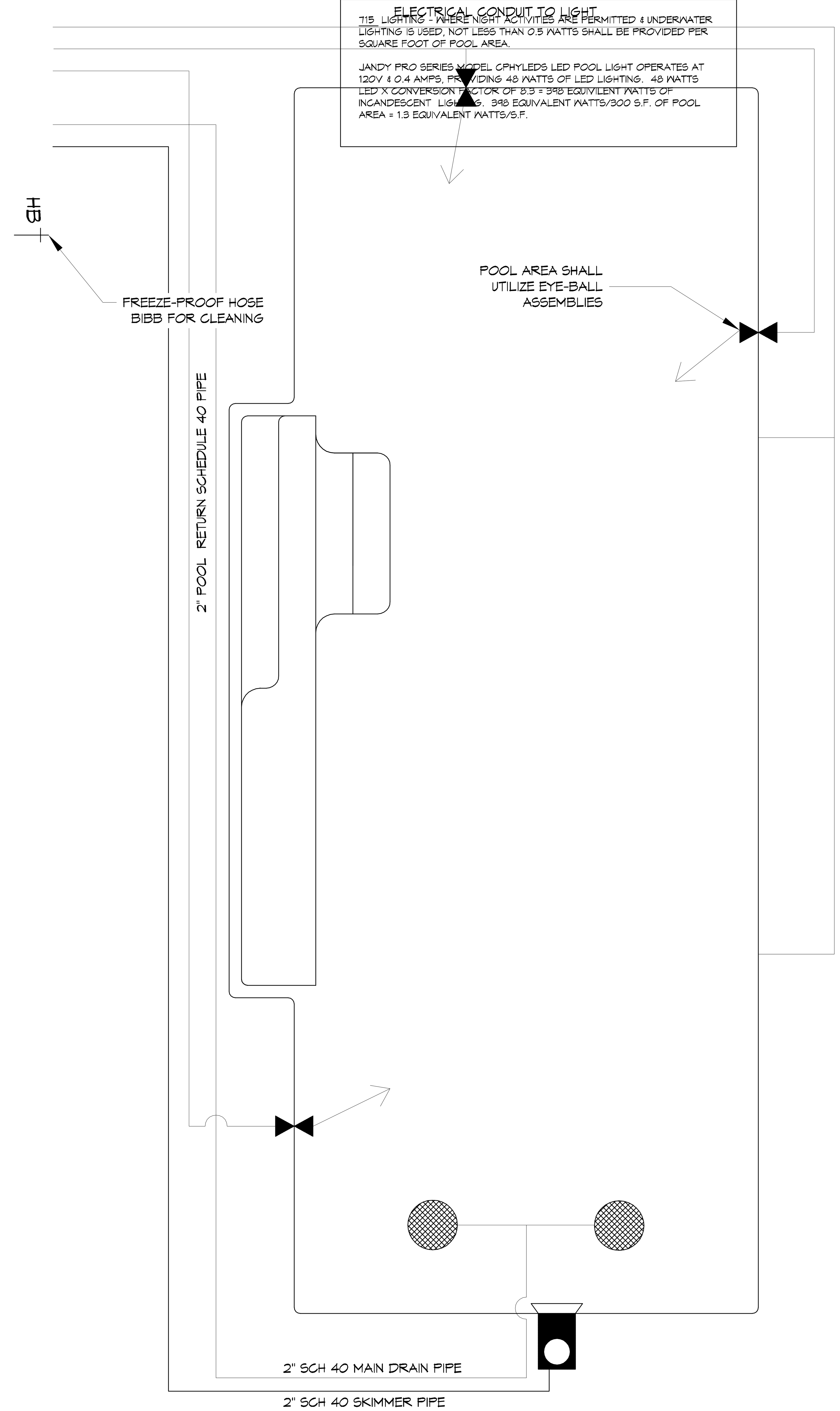
3 MANUAL FILL DETAIL
SCALE: N.T.S.

POOL DESIGN DATA

WATER VOLUME =	17,400GALLONS
TURNOVER RATE =	2.2 HOURS
DESIGN FLOW RATE =	75 GPM
MAX COMB. DISCHARGE PIPING VELOCITY=	7.66 FPS
MAX COMB. SUCTION PIPING VELOCITY=	4.91 FPS
WATER SURFACE AREA =	462 SQ. FT.
POOL PERIMETER =	95 LN. FT.
TOTAL HEAD LOSS =	65.3 FT.
MAXIMUM BATHER LOAD (DECKING AT LEAST SAME SQ FOOT AS WATER SURFACE AREA) =	38



4 POOL & SPA DRAIN W/AIR GAP
SCALE: N.T.S.



POOL LIGHTING

715 LIGHTING - WHERE NIGHT ACTIVITIES ARE PERMITTED & UNDERWATER LIGHTING IS USED, NOT LESS THAN 0.5 WATTS SHALL BE PROVIDED PER SQUARE FOOT OF POOL AREA.

JANDY PRO SERIES MODEL CPHYLEDS LED POOL LIGHT OPERATES AT 120V & 0.4 AMPS, PROVIDING 48 WATTS OF LED LIGHTING. 48 WATTS LED X CONVERSION FACTOR OF 8.3 = 398 EQUIVILENT WATTS OF INCANDESCENT LIGHTING. 398 EQUIVALENT WATTS/300 S.F. OF POOL AREA = 1.3 EQUIVALENT WATTS/S.F.

1 POOL PLUMBING LAYOUT PLAN
SCALE: 1/4"=1'-0"

N

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REVISIONS

#	DESCRIPTION	DATE
1	REVISION #1	12/28/2015

SEAL: STATE OF LOUISIANA — BRIAN A. MISTICH — License No. 30187 — 1/6/2016 — PROFESSIONAL ENGINEER

NEW POOL

B A Y O U   H A V E N

34205 BAYOU LIBERTY RD.
SLIDELL, LA

JOB No:	DATE: JULY 14, 2016
DRAWN BY: DPD	CHECKED BY: BM

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SHEET TITLE:
POOL PLUMBING PLAN

DRAWING NUMBER:
PL-1.3

SHEET No: 4 of #