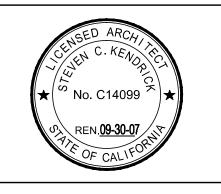
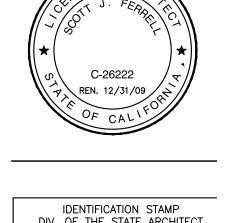


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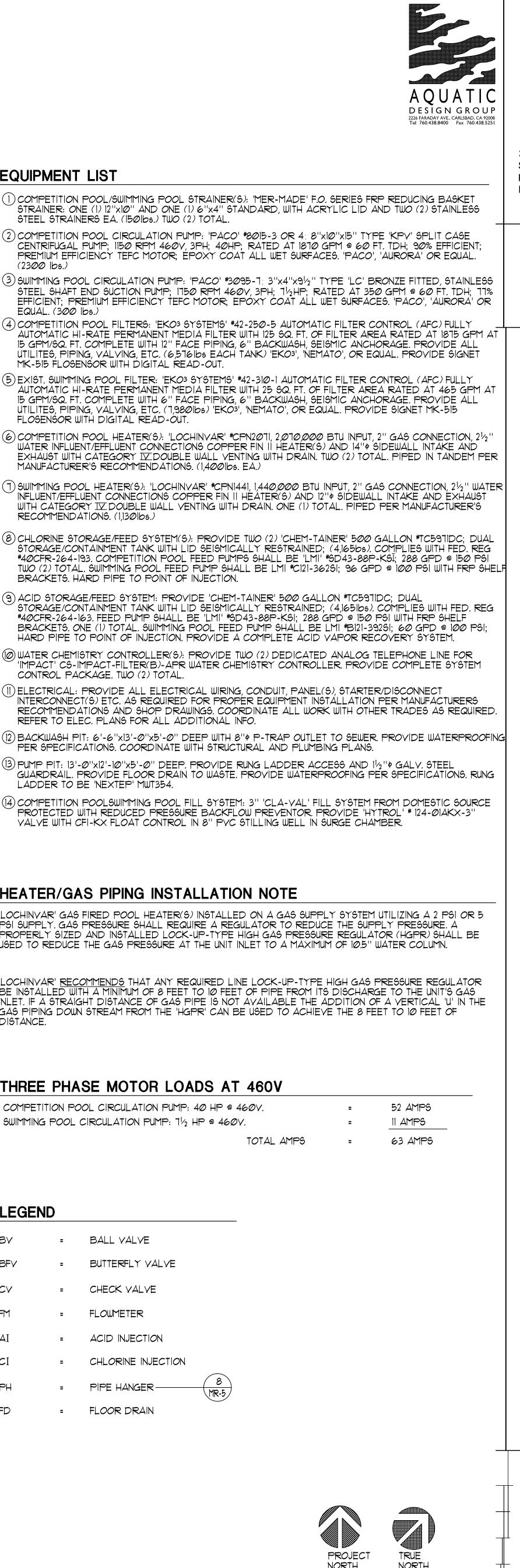
DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICE APPL. #: 01-110097 FILE NUMBER: 41-C1

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**(2) (3)** 

09 APRIL 2009

MECHANICAL ROOM LAYOUT PLAN



**EQUIPMENT LIST** 

HAZARDOUS

INFORMATION

CHEMISTRY CONTROLLER

SIGNAGE

1) COMPETITION POOL/SWIMMING POOL STRAINER(S): 'MER-MADE' F.O. SERIES FRP REDUCING BASKET STRAINER: ONE (1) 12"XIØ" AND ONE (1) 6"X4" STANDARD, WITH ACRYLIC LID AND TWO (2) STAINLESS STEEL STRAINERS EA. (1501bs.) TWO (2) TOTAL.

(2) COMPETITION POOL CIRCULATION PUMP: 'PACO' #8Ø15-3 OR 4; 8"XIØ"XI5" TYPE 'KPY' SPLIT CASE CENTRIFUGAL PUMP; 1150 RPM 460V, 3PH; 40HP; RATED AT 1870 GPM @ 60 FT. TDH; 90% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL

(3) SWIMMING POOL CIRCULATION PUMP: 'PACO' #3095-7; 3"x4"x91/2" TYPE 'LC' BRONZE FITTED, STAINLESS STEEL SHAFT END SUCTION PUMP; 1750 RPM 460V, 3PH;  $1\frac{1}{2}$ HP; RATED AT 350 GPM @ 60 FT. TDH; 17% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL. (300 lbs.)

(4) COMPETITION POOL FILTERS: 'EKO3 SYSTEMS' \*42-25Ø-5 AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 125 SQ. FT. OF FILTER AREA RATED AT 1875 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 12" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITES, PIPING, VALVING, ETC. (6,57616 EACH TANK) 'EKO3', 'NEMATO', OR EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT.

I (5) EXIST. SWIMMING POOL FILTER: 'EKO3 SYSTEMS' #42-310-1 AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 25 SQ. FT. OF FILTER AREA RATED AT 465 GPM A 15 GPM/SQ. FT. COMPLETE WITH 6" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITES, PIPING, VALVING, ETC. (7,980165) 'EKO3', 'NEMATO', OR EQUAL. PROVIDE SIGNET MK-515' FLOSENSOR WITH DIGITAL READ-OUT.

 $_{1}$  (6) COMPETITION POOL HEATER(5): 'LOCHINVAR' \*CPN2Ø71, 2,Ø7Ø,ØØØ BTU INPUT, 2'' GAS CONNECTION, 2 $^{1}\!\!\!/_{2}$ WATER INFLUENT/EFFLUENT CONNECTIONS COPPER FIN II HEATER(S) AND 14" & SIDEWALL INTAKE AND EXHAUST WITH CATEGORY IV DOUBLE WALL VENTING WITH DRAIN. TWO (2) TOTAL. PIPED IN TANDEM PER MANUFACTURER'S RECOMMENDATIONS. (1,40016s. EA.)

7) SWIMMING POOL HEATER(S): 'LOCHINYAR' \*CPN1441, 1,440,000 BTU INPUT, 2" GAS CONNECTION,  $2\frac{1}{2}$ " WATER INFLUENT/EFFLUENT CONNECTIONS COPPER FIN II HEATER(S) AND 12" & SIDEWALL INTAKE AND EXHAUST WITH CATEGORY IV DOUBLE WALL VENTING WITH DRAIN. ONE (1) TOTAL. PIPED PER MANUFACTURER'S RECOMMENDATIONS. (1,13016s.)

8 CHLORINE STORAGE/FEED SYSTEM(S): PROVIDE TWO (2) 'CHEM-TAINER' 500 GALLON \*TC597IDC; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; (4,1656). COMPLIES WITH FED. REG \*40CFR-264-193. COMPETITION POOL FEED PUMPS SHALL BE 'LMI' \*SD43-88P-KSI; 288 GPD @ 150 PSI TWO (2) TOTAL. SWIMMING POOL FEED PUMP SHALL BE LMI \*C121-362SI; 96 GPD @ 100 PSI WITH FRP SHELF BRACKETS. HARD PIPE TO POINT OF INJECTION.

)) ACID STORAGE/FEED SYSTEM: PROVIDE 'CHEM-TAINER' 500 GALLON #TC597IDC; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; (4,16516s). COMPLIES WITH FED. REG \*40CFR-264-163. FEED PUMP SHALL BE 'LMI' \*SD43-88P-KSI; 288 GPD @ 150 PSI WITH FRP SHELF BRACKETS. ONE (1) TOTAL. SWIMMING POOL FEED PUMP SHALL BE LMI #BI21-39251; 60 GPD @ 100 PSI; HARD PIPE TO POINT OF INJECTION. PROVIDE A COMPLETE ACID VAPOR RECOVERY SYSTEM

(10) WATER CHEMISTRY CONTROLLER(5): PROVIDE TWO (2) DEDICATED ANALOG TELEPHONE LINE FOR CONTROL PACKAGE. TWO (2) TOTAL.

ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(6), STARTER/DISCONNECT INTERCONNECT(5) ETC. AS REQUIRED FOR PROPÈR EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO.

(12) BACKWASH PIT: 6'-6''x13'-0''x5'-0'' DEEP WITH 8" P-TRAP OUTLET TO SEWER, PROVIDE WATERPROOFING PER SPECIFICATIONS, COORDINATE WITH STRUCTURAL AND PLUMBING PLANS.

BY PUMP PIT: 13'-0''X12'-10''X5'-0'' DEEP. PROVIDE RUNG LADDER ACCESS AND 1½''O GALV. STEEL GUARDRAIL. PROVIDE FLOOR DRAIN TO WASTE. PROVIDE WATERPROOFING PER SPECIFICATIONS. RUNG LADDER TO BE 'NEXTEP' MWT354.

PROTECTED WITH REDUCED PRESSURE BACKFLOW PREVENTOR. PROVIDE 'HYTROL' # 124-01AKX-3" YALYE WITH CFI-KX FLOAT CONTROL IN 8" PVC STILLING WELL IN SURGE CHAMBER.

## HEATER/GAS PIPING INSTALLATION NOTE

'LOCHINYAR' GAS FIRED POOL HEATER(S) INSTALLED ON A GAS SUPPLY SYSTEM UTILIZING A 2 PSI OR 5 PSI SUPPLY. GAS PRESSURE SHALL REQUIRE A REGULATOR TO REDUCE THE SUPPLY PRESSURE. A PROPERLY SIZED AND INSTALLED LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR (HGPR) SHALL BE USED TO REDUCE THE GAS PRESSURE AT THE UNIT INLET TO A MAXIMUM OF 10.5" WATER COLUMN.

'LOCHINVAR' RECOMMENDS THAT ANY REQUIRED LINE LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR BE INSTALLED WITH A MINIMUM OF 8 FEET TO 10 FEET OF PIPE FROM ITS DISCHARGE TO THE UNIT'S GAS INLET. IF A STRAIGHT DISTANCE OF GAS PIPE IS NOT AVAILABLE THE ADDITION OF A VERTICAL 'U' IN THE GAS PIPING DOWN STREAM FROM THE 'HGPR' CAN BE USED TO ACHIEVE THE 8 FEET TO 10 FEET OF

## THREE PHASE MOTOR LOADS AT 460V

COMPETITION POOL CIRCULATION PUMP: 40 HP @ 460Y. SWIMMING POOL CIRCULATION PUMP: 71/2 HP @ 460Y.

TOTAL AMPS

**LEGEND** 

BALL YALYE

BUTTERFLY VALVE

CHECK VALVE

FLOWMETER

ACID INJECTION

CHLORINE INJECTION

FLOOR DRAIN

MECHANICAL ROOM LAYOUT PLAN

-12''x 12'' OPENING FROM CEILING TO A.F.F. FOR

EXHAUST DUCTWORK

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CONDENSER UNIT

HOUSEKEEPING PAD

MOUNTED TO

(**A** 

1" COLD WATER TO DECK
HOSE BIBBS/DISABLED
LIFT HOSE BIBBS

12" COMPETITION POOL MAIN DRAIN SUCTION

<u>12'' COMPETITION POOL</u> SURGE CHAMBER SUCTI**O**N

3" FILL EQUALIZER LINE TO COMPETITON POOL/ SWIMMING POOL SURGE CHAMBER (4)

6" SWIMMING POOL C--+
SURGE CHAMBER SUCTION Q---

6" SWIMMING POOL MAIN DRAIN SUCTION

-3" COLD WATER SOURCE

TOP OF WALL

STRAINER

COMPETITION

POOL CIRC. PUMP

STEEL GUARDRAIL WITH CHAIN ACCESS

(RUNG ĽAĎDĚR-

PANEL 'SPI'

ELEC. PANEL

Ø'-4½''—

WITH RPBFP

-HAZARDOUS

SIGNAGE

FEEDS

COLLAR TYP.

21/2" CPVC-HEATER INFLU./EFFLU.

60 GALLON ACID VAPOR RECOVERY TANK

/5/00 GALLON

ACID STORAGE

ACID ROOM

INFORMATION

500 GALLON CHLORINE STOBAGE

-CHLORINE INJECTION POINT

HAZARDOUS

INFORMATION

CHLORINE ROOM

-4" HOUSEKEEP

HEATER

4" HOUSEKEEP-

14" \$ SIDEWALL AIR INTAKE AT +24"

RFI #37

7'-2" TO BOTTOM C

AND EXHAUST AT

COMPETITION

POOL HEATER

14" & SIDEWALL AIR INTAKE AT +24"

<u>RFI #37</u>

EXHAUST CAP

7'-2" TO BOTTOM OF

AND EXHAUST,

1/2 ''=1'-Ø''

PAD

<del>─</del>6" HEATER L*OO*P —

4" HEATER LOOP-

500 GALLON CHLORINE

STORAGE

CHLORINI FEED

ACID FEEDS

SIGNAGE

CHLORIN

COMPETITION POOL FILTERS (4)

2½" CPVC—<del>|||||</del>

COMPETITION

POOL HEATER

14''4

HEATER INFLU./EFFLU.

-4" HOUSEKEEP--

12" \$ SIDEWALL AIR INTAKE AT +24"

AND EXHAUST AT 1'-2"

RFI #37

7'-2" TO BOTTOM OF

POOL HEATER

12''φ

RELOCATION

MR-1