1" CONDUIT W/ 3 #12 AWG, THHN (TYP. 2)

JUNCTION BOX, SUBMERSIBLE W/ EIGHT ¾" SIDE TAPS & 1" BOTTOM TAP. J-98 OASE PUMPS & FOUNTAINS (TYP. 2) W/ CORD SEAL, FOR USE W/ WET NICHE FIXTURES, ¾" NPT. J-13-5 PEM FOUNTAINS (TYP. 9)

4 / F0.06

WATER LEVEL SENSOR, CONDUIT MOUNTED TYPE. PEM FOUNTAINS L-104-48 WITH ½" CONDUIT W/ 6 #18 AWG, THHN.

4 / F1.05

JUNCTION BOX, SUBMERSIBLE W/ FOUR ½" SIDE TAPS & TWO 1¼" BOTTOM TAPS. BRONZE. J12 CUSTOM OASE PUMPS & FOUNTAINS

DISPLAY SYSTEM PUMP, 7½HP

1¼" CONDUIT W/ 4 # 2 AWG, THHN.

¾" CONDUIT W/ SUBMERSIBLE FIXTURE CORD. (TYP. 9)

TO PANEL

TO PANEL

TO PANEL

½" CONDUIT W/ TWISTED PAIR 22AWG (CAT 5 ETHERNET OK) TO ELECTRICAL CONTROLS

ANEMOMETER SHALL BE LOCATED 50' UPWIND OF THE FOUNTAIN. THE CONTRACTOR SHALL DETERMINE THIS LOCATION BY ON-SITE OBSERVATION OF ACTUAL WIND CONDITIONS. VERIFY LOCATIONS W/THE ARCHITECT AND FOUNTAIN ENGINEER. MODEL 041 H. B. ABRAMS COMPANY

TO PANEL

1" CONDUIT W/ 4 # 6 AWG, THHN (TYP. 2)

2 / F1.05

FILTER SYSTEM PUMP, 5HP (TYP. 2)

JUNCTION BOX, SUBMERSIBLE W/ FOUR ½" SIDE TAPS & ONE 1" BOTTOM TAP. BRONZE. J84 (TYP. 2)

5 / F0.06

LIGHT FIXTURE, SUBMERSIBLE, WET NICHE TYPE, 100Q, 120FL, CLC, WITH ROCK GUARD AND 75' CORD. 4800-RD-B HYDREL (TYP. 9)

6'-8"

9"

R1'-6"

1'-3½"

6'-8"

16'-1¼" (TYP)

32'-2½" (TYP)

NOTE: TWIST THE WIRES IN EACH CONDUIT RUN. TWIST AT LEAST TWO TURNS PER FOOT.

NOTE: TYPICAL ONE OF TWO IDENTICAL SYSTEMS

NOTE: REFER TO LAYOUT AND MATERIALS PLAN FOR FOUNTAIN LAYOUT AND ORIENTATION

Fountain 1 — 1 — Electrical Plan

Scale: 1/4" = 1'-0"

JUNCTION BOX, SUBMERSIBLE, W/ EIGHT ¾" SIDE TAPS & ONE 1" BOTTOM TAP. J-98 OASE PUMPS & FOUNTAINS -WITH- CORD SEAL, FOR USE W/ WET NICHE FIXTURES, ¾" NPT. J-13-5 PEM FOUNTAINS

4 / F0.06

3 / F1.05

LIGHT FIXTURE, SUBMERSIBLE, WET NICHE TYPE, 100Q, 120FL, CLC, WITH ROCK GUARD AND 75' CORD. 4800-RD-B HYDREL

1" CONDUIT - W/ THREE (3) #12 AWG, THHN. TO ELECTRICAL PANEL WITH TWISTED WIRES

¾" CONDUIT W/ SUBMERSIBLE FIXTURE CORD, TYP.

Sectiong thru Fountain — 2 — Lighting Fixtures

Scale: 3/4" = 1'-0"

WATER LEVEL CONTROL, NICHE TYPE, COMBINATION WATER LEVEL SENSOR AND 3" SIDE-WALL OVERFLOW DRAIN. L-104-48 PEM FOUNTAINS

2 / F0.06

BONDING CLAMPS AS REQUIRED BY AND IN COMPLIANCE WITH NEC ARTICLES 250.8 & 680.26

5 1/4"

3"

18"

12 1/2"

1/2" CONDUIT WITH SIX (6) #18 AWG, THHN, TO CONTROL ENCLOSURE.

FLOOR DRAIN WITH PLUG, 4" NPT, CAST BRONZE. 7684 STANDARD BRONZE

4", TO SANITARY SEWER PTRAP CONNECTION.

Section thru Pool at — 4 — Water Level Control

Scale: 1 1/2" = 1'-0"

LIGHT FIXTURE, SUBMERSIBLE, WET NICHE TYPE, 100Q, 120FL, CLC, WITH ROCK GUARD AND 75' CORD. 4800-RD-B HYDREL

¾" CONDUIT W/ SUBMERSIBLE FIXTURE CORD, TYP.

2 / F0.06

BONDING CLAMPS AS REQUIRED BY AND IN COMPLIANCE WITH NEC ARTICLES 250.8 & 680.26

Lighting Fixtures — 3 — Detail

Scale: 3" = 1'-0"

DISPLAY PUMP, SUBMERSIBLE TYPE, 7½Hp CARRY MFG.

BONDING CLAMPS AS REQUIRED BY AND IN COMPLIANCE WITH NEC ARTICLES 250.8 & 680.26

2 / F0.06

CONDUIT, 1¼" PVC WITH 4 #2 AWG, THHN.

JUNCTION BOX, SUBMERSIBLE W/ FOUR ½" SIDE TAPS & TWO 1¼" BOTTOM TAPS. BRONZE. J12 CUSTOM OASE PUMPS & FOUNTAINS -WITH- CORD SEAL, 1" MNPT, 20MM OD CORD, NYLON. 69915K72 McMASTER-CARR -WITH- REDUCER BUSHING, 1¼" x 1" NPT, CAST BRONZE. 4429K416 McMASTER-CARR

9" MIN

CONDUIT NIPPLE WITH WATER-STOP FLANGE, 1¼" NPT, 18" LONG, STAINLESS STEEL. WFN-125-018 ABC METALS

Junction Box — 5 — Potting Detail

Scale: 1 1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER — XIANG XIAO — No. 5289 — Exp. 6/30/10 — STRUCTURAL — STATE OF CALIFORNIA

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College of San Mateo
Site Package
San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
DSA SUBMITTAL	19 SEPT 2008	
DSA FINAL	09 APRIL 2009	

Job. No.	27082.30
Date	09 APRIL 2009
Drawn by	VM
Checked by	LM
Scale	AS SHOWN

FOUNTAIN 1 & 2 ELECTRICAL PLAN & DETAILS

F1.05