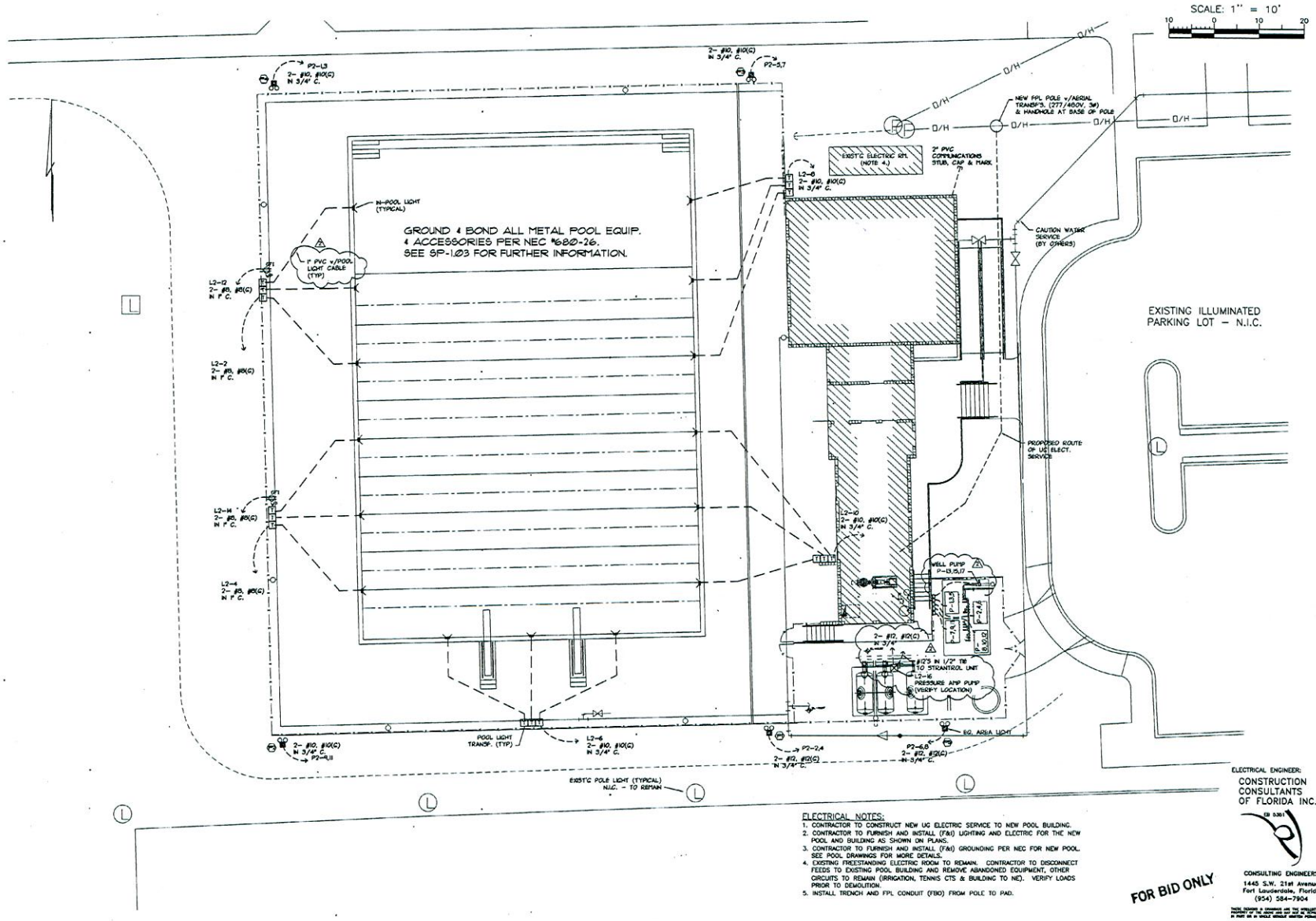

ELECTRICAL NOTES:

1. CONTRACTOR TO CONSTRUCT NEW UG ELECTRIC SERVICE TO NEW POOL BUILDING.
2. CONTRACTOR TO FURNISH AND INSTALL (F&I) LIGHTING AND ELECTRIC FOR THE NEW POOL AND BUILDING AS SHOWN ON PLANS.
3. CONTRACTOR TO FURNISH AND INSTALL (F&I) GROUNDING PER NEC FOR NEW POOL. SEE POOL DRAWINGS FOR MORE DETAILS.
4. EXISTING FREESTANDING ELECTRIC ROOM TO REMAIN. CONTRACTOR TO DISCONNECT FEEDS TO EXISTING POOL BUILDING AND REMOVE ABANDONED EQUIPMENT, OTHER CIRCUITS TO REMAIN (IRRIGATION, TENNIS CTS & BUILDING TO NE). VERIFY LOADS PRIOR TO DEMOLITION.
5. INSTALL TRENCH AND FPL CONDUIT (FBO) FROM POLE TO PAD.

FOR BID ONLY

ELECTRICAL ENGINEER:
CONSTRUCTION CONSULTANTS OF FLORIDA INC.
EB 5381
CONSULTING ENGINEERS
1445 S.W. 21st Avenue
Fort Lauderdale, Florida
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MITCHELL MOORE PARK AQUATIC CENTER
POMPANO BEACH, FLORIDA

JOB NUMBER	1628-01
FILE No.	:
DRAWN	: V.J.F.
REVIEWED	: V.J.F.
CHECKED	: V.J.F.
DATE	: 6-23-06

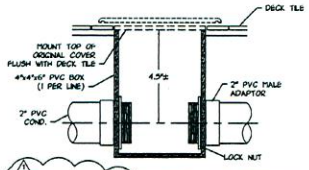
ISSUE/REVISIONS

2	9/25/6	ENG'S REV'S.

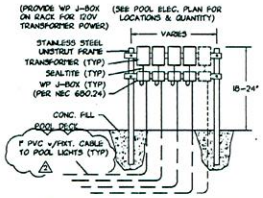
SHEET TITLE
SITE ELECTRIC PLAN

SHEET NUMBER
E-01

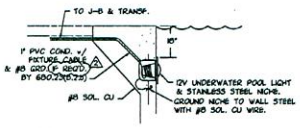
P:\PR\C3TS\PompanoBch\MitchellMoore\ELEC-SITE-R-R2.dwg



TIMING SYSTEM 4x4 DECK BOX DETAIL
(N.T.S.)

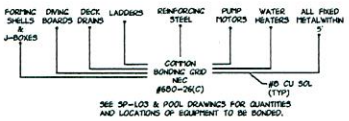


POOL TRANSFORMER RACK
(TYP - N.T.S.)



NOTE:
ALL WORK SHALL BE DONE IN STRICT COMPLIANCE w/ ARTICLE 680 N.E.C. AND ALL LOCAL BUILDING DEPT. REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MEETING THESE CRITERIA.

POOL LIGHT DETAIL
(N.T.S.)



SEE SP-L03 & POOL DRAWINGS FOR QUANTITIES AND LOCATIONS OF EQUIPMENT TO BE BONDED.

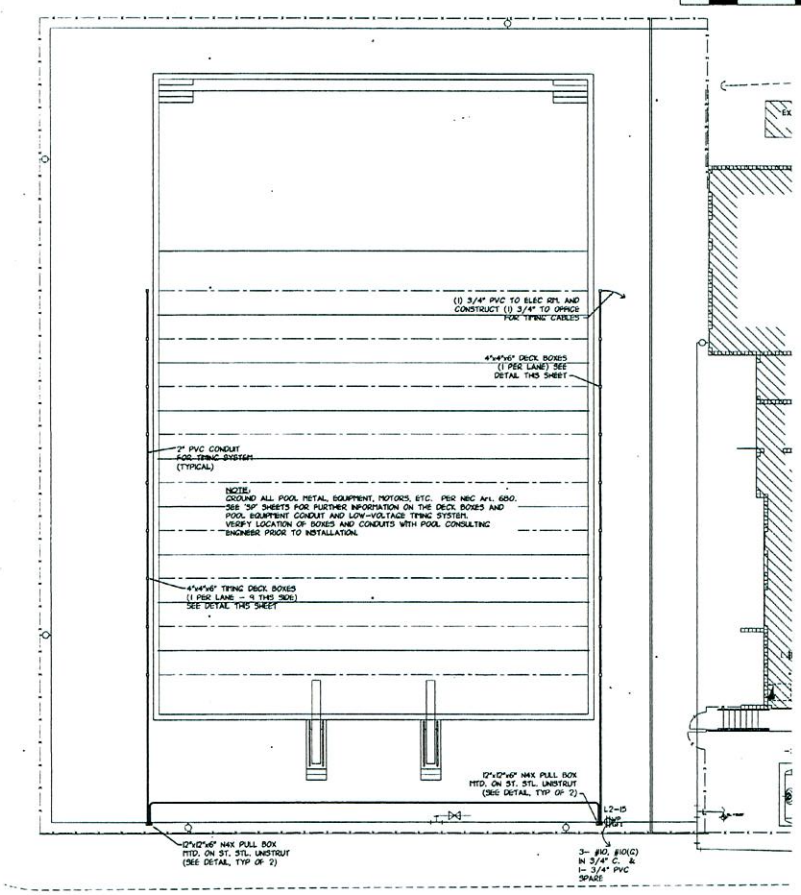
POOL BONDING RISER
(N.T.S.)

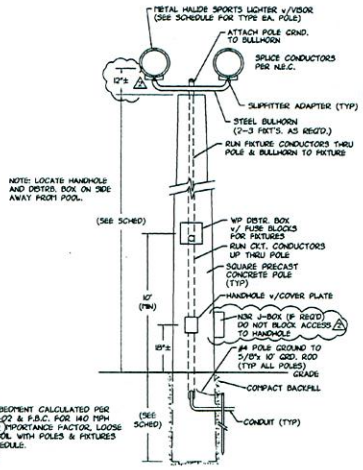
ALL POOL BONDING PER NEC #680-26.

POLE & LIGHTING FIXTURE SCHEDULE							
QTY	POLE #	MANFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	EPA	REMARKS
4	P1 - P4	HUBBELL SLS 1000W w/VISOR	44' AFG ** (40' POLE)	(2) 1000W MET. HAL.	480	8.8	55' SQ. CONC. POLE (12' EMBED) w/ 2 HO. BULLHORN
1	P5	HUBBELL SLS 1000W w/VISOR	39' AFG ** (35' POLE)	(2) 1000W MET. HAL.	480	8.8	50' SQ. CONC. POLE (12' EMBED) w/ 2 HO. BULLHORN

** NOTE: FIXTURE MOUNTING HEIGHT IS 1 FT. GREATER THAN TOP OF POLE DUE TO BULLHORN.
NOTE: POLE LOCATIONS ARE APPROXIMATE, SEE LTG. MANUFACTURER'S DRAWINGS/S.I. CONTRACTOR TO COORDINATE POLE LOCATIONS WITH SITE PLAN, SITE ELECTRIC PLAN AND SITE CONDITIONS.

SCALE: 1" = 10'

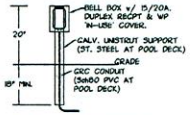




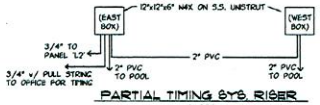
NOTE:
POLE EMBEDMENT CALCULATED PER ASCE 7-02 & F.B.C. FOR 140 MPH WIND, (I) IMPORTANCE FACTOR, LOOSE SANDY SOIL WITH POLES & FIXTURES PER SCHEDULE.

POLE DETAIL
(N.T.S.)

RECPT. ENCLOSURE SHALL COMPLY WITH NEC ART# 406.8(B)



WP DUPLEX RECPT.
(TYP - N.T.S.)



PARTIAL TIMING SYS. RISER
(N.T.S.)

ELECTRICAL ENGINEER:
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MITCHELL MOORE PARK AQUATIC CENTER
POMPANO BEACH, FLORIDA

JOB NUMBER
1628-01

FILE No. :

DRAWN : V.J.F.
REVIEWED: V.J.F.
CHECKED : V.J.F.

DATE : 6-23-06

ISSUE/REVISIONS

2	9/29/6	BID'S REV'S.

SHEET TITLE
POOL DECK ELECTRIC PLAN

SHEET NUMBER
E-02

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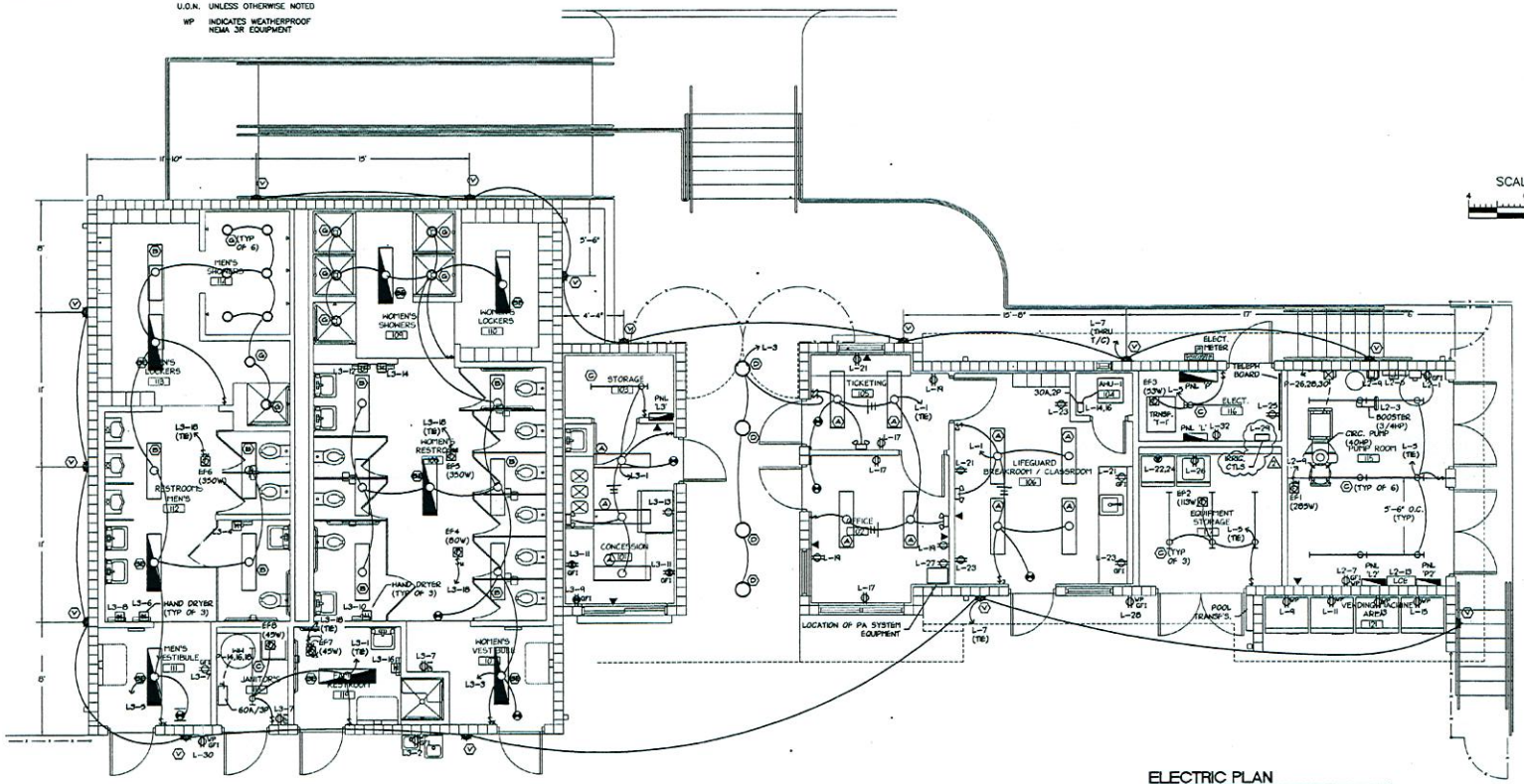
ELECTRICAL LEGEND

	CLG. JUNC. BOX		FLUSH WALL J-BOX
	SINGLE RECPT.		DUPLEX FLOOR
	DUPLEX RECPT.		FLOOR TEL.
	RECPT. ABOVE COUNTER		CLG. EXHAUST FAN
	DBL-DUPLEX RECPT.		CATV OUTLET
	SPCL. PURPOSE OUTLET		3 WIRES (ARROW = HR)
	S.P. SWITCH		EQ. GRND. WIRE
	3W SWITCH		FIXTURE TYPE
	4W SWITCH		FL. STRIP FIXTURE
	DIMMER		FL. FIXTURE
	TELEPHONE		2x4 LAYIN
	TELE/DATA OUTLET		2x4 LAYIN w/EM B'TRY
	REC. INC. FIXTURE	A.F.F.	ABOVE FINISHED FLOOR
	SURF. INC. FIXTURE	A.F.G.	ABOVE FINISHED GRADE
	WALL INC. FIXTURE	GFI	GROUND FAULT PROT.
	EXIT	N.I.C.	NOT IN CONTRACT
	EM. LIGHT	U.O.N.	UNLESS OTHERWISE NOTED
		WP	INDICATES WEATHERPROOF NEMA 3R EQUIPMENT

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	REMARKS
A	COLUMBIA: 4' FL. WRAPAROUND #WC4-232-EBB120	SURFACE (CEILING)	(2) F32 T8	120	-
B	KENALL: 2', W4, SURF. (HIGH ABUSE) #HCM2P232EB120	SURFACE (CEILING)	(2) F32 T8	120	VANDAL RESISTANT
BE	KENALL: 2', W4, SURF. (HIGH ABUSE) #ENG240-C-2326B-1-120 & B50 BOONE	SURFACE (CEILING)	(2) F32 T8	120	VANDAL RESISTANT w/ EM BALLAST (FIELD INSTALL)
C	COLUMBIA: 2L FL STRIP, WIRE GUARD CS4-232-EBB120-CSWG4	SURFACE (CEILING)	(2) F32 T8	120	-
D	KENALL MILLENNIUM PR12BL-PP-MW-42P1-120	SURFACE (CEILING)	42W PLT	120	VANDAL RESISTANT (1 POSGRIP SCREWDRIVER)
F	COLUMBIA: 2L, 4' ENCLOSED STRIP #LUM-232-EBB120-CLR	SURFACE (CEILING)	(2) F32 T8	120	HIGH IMPACT HOUSING, WET LOCATION
G	PRESCOLITE: 6" DIA, RECESSED D/L #BXH-HV/TL63	RECESSED	(1) 26W TRI-TUBE	120	POLYCARB LENS (SHOWER) WET LOCATION
H	HUBBELL: VWX-51/VCC-15 ELEVATOR PIT LIGHT	SURFACE (WALL)	PL-13	120	-
K	COLUMBIA: WALL MOUNT W4-232-EBB120-DL-LSW-LCO	SURFACE (WALL)	(2) F32 T8	120	DAMP LOCATION
LE	KENALL: 2', W2, REC. (HIGH ABUSE) #RCA2-0-2/1PB-1-120-1/PB-EL	SURFACE (CEILING)	(2) F17 T8	120	RECESSED VANDAL RESISTANT w/ EM BALLAST
V	KENALL MILLENIUM PR12BL-PP-MW-42P1-120	SURFACE (WALL)	(1) 42W PLT	120	VANDAL RESISTANT, (SEE DWG'S. FOR FITC. HGT)
	DUAL-LITE: 2HD EM. PACK #LT2	SURFACE (WALL)	(INCL)	120	CONNECT TO UN-SWITCHED POWER.
	DUAL-LITE: EM EXIT LITE #LUXEWE	SURFACE (WALL)	(INCL)	120	EM BATTERY, CONNECT TO UN-SWITCHED POWER.



ELECTRIC PLAN

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

FOR BID ONLY

ELECTRICAL ENGINEER:
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MITCHELL MOORE PARK AQUATIC CENTER

POMPANO BEACH, FLORIDA

JOB NUMBER
1628-01

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DRAWN : V.J.F.
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DATE : 6-23-06

ISSUE/REVISIONS

2	9/15/06	OWNER'S REVS.

SHEET TITLE
POOL BLDG. ELECTRIC PLAN

SHEET NUMBER
E-1.01

P:\FRA\C3TS\PompanoBch\PlanetRoot\ELEC-BLDG-b-R2.dwg

TYPE SqD 'NF' (OR EQ.) SERVICE 277/480V, 3Ø,4W MOUNTING SURF POLE 42

PANEL P

MAIN BUS 400 AMP NEUTRAL FULL MAIN 400A MCB AIC 18,000

BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
60/3	1"	#8	HEAT PUMP 1 (20HP)	1	7500 7500			2	HEAT PUMP 3 (20HP)	#8	1"	60/3
				3		7500 7500		4				
				5			7500 7500	6				
60/3	1"	#8	HEAT PUMP 2 (20HP)	7	7500 7500			8	HEAT PUMP 4 (20HP)	#8	1"	60/3
				9		7500 7500		10				
				11			7500 7500	12				
35/3	1"	#10	WELL PUMP (10HP)	13	3880 12000			14	WATER HEATER	#6	1"	60/3
				15		3880 12000		16				
				17			3880 12000	18				
175/3	2"	#2/0	TRANSF. 'T-1'	19	37500 14400			20	CIRC. PUMP (40HP)	#6	1-1/4"	125/3
				21		37500 14400		22				
				23			37500 14400	24				
80/3	1-1/2"	#3	PANEL 'P2'	25	5330 –			26	SURGE PROTECTOR	#12	1/2"	20/3
				27		5330 –		28				
				29			5330 –	30				
			SPACE	31	–			32	SPACE			
				33		–		34				
				35			–	36				
				37				38				
				39				40				
				41				42				
					103110	103110	103110					

TOTAL CONNECTED LOAD: 309330 VA
CONTINUOUS AT 25%: –
25% LARGEST MOTOR: 10800
TOTAL COMPUTED LOAD: 320130 VA (386 AMPS, 277/480V, 3Ø)
FEEDER: 4– 600kcmil IN 4" C.

TYPE SqD 'NQOD' (OR EQ.) SERVICE 120/208V, 3Ø,4W MOUNTING SURF POLE 42

PANEL L

MAIN BUS 400 AMP NEUTRAL FULL MAIN 250A MCB AIC 10,000

BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/1	1/2"	#12	LTS. OFFICES/TICKETS	1	500 6200			2	PANEL 'L2'	#1	2"	100/3
20/1	1/2"	#12	LTS BREEZEWAY	3		300 6200		4				
20/1	1/2"	#12	LTS. EQUIP RM	5			1200 6200	6				
20/1	1/2"	#10	LTS. WALL PACKS **	7	840 10000			8	PANEL 'L3'	#1	2"	100/3
20/1	1/2"	#12	VENDING MACHINE	9		1000 10000		10				
20/1	1/2"	#12	VENDING MACHINE	11			1000 10000	12				
20/1	1/2"	#12	VENDING MACHINE	13	1000 2200			14	A.H.U.	#10	1/2"	30/2
20/1	1/2"	#12	VENDING MACHINE	15		1000 2200		16				
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	17			540 (NC)	18	C.U.	#12	3/4"	20/2
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	19	540 (NC)			20				
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	21		540 2500		22	CLOTHES DRYER	#10	1/2"	30/2
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	23			540 2500	24				
20/1	1/2"	#12	TELEPHONE BOARD	25	300 1500			26	WASHER	#12	1/2"	20/1
20/1	1/2"	#12	PA SYSTEM	27		1000 500		28	WP RECPTS	#12	1/2"	20/1
20/1	1/2"	#12	IRRIG. CTL'R.	29			1500 500	30	WP RECPTS	#12	1/2"	20/1
20/1	–	–	SPARE	31	500 500			32	RECEPT.	#12	1/2"	20/1
20/1	–	–	SPARE	33		–		34	SPACE	–	–	–
			SPACE	35			1000 1000	36				
				37				38				
				39				40				
				41				42				
					24380	25240	25980					

TOTAL CONNECTED LOAD: 75600 VA
CONTINUOUS AT 25%: 785
25% LARGEST MOTOR: –
TOTAL COMPUTED LOAD: 76385 VA (212 AMPS, 120/208V, 3Ø)
FEEDER: 4– 250kcmil, #4(C) IN 3" C.

** THRU TIME CLOCK

TYPE SqD 'NQOD' (OR EQ.) SERVICE 120/208V, 3Ø,4W MOUNTING N3R POLE 24

PANEL L2

MAIN BUS 100 AMP NEUTRAL FULL MAIN LUGS ONLY AIC 10,000

BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/1	1/2"	#12	STRANTROL-1	1	500 900			2	IN-POOL LTS	#10	1"	20/1
20/1	1/2"	#12	BOOSTER (3/4)	3		1650 900		4	IN-POOL LTS	#10	1"	20/1
20/1	1/2"	#12	CL2 FDR W/HP	5			2000 900	6	IN-POOL LTS	#10	1"	20/1
20/1	1/2"	#12	RECEPT.	7	500 900			8	IN-POOL LTS	#10	1"	20/1
20/1	1/2"	#12	POOL EQ EX FAN	9		350 900		10	IN-POOL LTS	#10	1"	20/1
20/1	1/2"	#12	CO2 FDR	11			1000 500	12	WP DECK RECEPT'S	#8	1"	20/1
20/1	1/2"	#12	LTG. CONTROLS	13	300 500			14	WP DECK RECEPT'S	#10	3/4"	20/1
20/1	3/4"	#10	IRRIG SYSTEM	15		500 1600		16	PRESSURE AMP PUMP	#12	3/4"	20/1
20/1	–	–	SPARE	17			1000 –	18	SPACE	–	–	–
20/1	–	–	SPARE	19	1000			20				
			SPACE	21				22				
				23				24				
					5600	5900	5400					

TOTAL CONNECTED LOAD: 16900 VA
CONTINUOUS AT 25%: 1125
25% LARGEST MOTOR: 500
TOTAL COMPUTED LOAD: 18525 VA (51 AMPS, 120/208V, 3Ø)
FEEDER: 4– #1, #6(G) IN 2" C.

TYPE SqD 'NQOD' (OR EQ.) SERVICE 120/208V, 3Ø,4W MOUNTING SURF POLE 30

PANEL L3

MAIN BUS 225 AMP NEUTRAL FULL MAIN LUGS ONLY AIC 10,000

BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/1	1/2"	#12	LTS. CONCESS/STRG	1	1025 1000			2	DRINKING FOUNT	#12	1/2"	20/1
20/1	1/2"	#12	LTS. MENS RM	3		1375 2300		4	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	LTS. WOMENS RM	5			1300 2300	6	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	RECPTS RESTROOMS	7	720 2300			8	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	RECEPT CONCESS	9		500 2300		10	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	RECEPTS CONCESS	11			1000 2300	12	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	RECEPTS CONCESS	13	1000 2300			14	HAND DRYER	#10	1/2"	20/1
20/1	–	–	SPARE	15		1000 2300		16	HAND DRYER	#10	1/2"	20/1
20/1	–	–	SPARE	17			1000 1325	18	EXH. FANS (4,5,6,7)	#12	1/2"	20/1
20/1	–	–	SPARE	19	1000 –			20	SPACE	–	–	–
–	–	–	SPACE	21		–		22				
				23			–	24				
				25				26				
				27				28				
				29				30				
					9345	9775	9225					

TOTAL CONNECTED LOAD: 28345 VA
CONTINUOUS AT 25%: 1256
25% LARGEST MOTOR: –
TOTAL COMPUTED LOAD: 29601 VA (82 AMPS, 120/208V, 3Ø)
FEEDER: 4– #1, #6(G) IN 2" C.

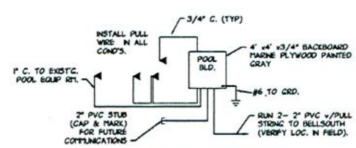
TYPE SqD 'NF' (OR EQ.) SERVICE 277/480V, 3Ø,4W MOUNTING N3R POLE 18

PANEL P2

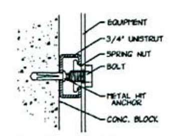
MAIN BUS 100 AMP NEUTRAL FULL MAIN LUGS ONLY AIC 18,000

BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/2	3/4"	#10	POLE LTS	1	1250 1250			2	POLE LTS	#10	3/4"	20/2
				3		1250 1250		4				
20/2	3/4"	#10	POLE LTS	5			1250 1250	6	EQ. POLE LTS	#10	3/4"	20/2
				7	1250 1250			8				
20/2	3/4"	#10	POLE LTS	9		1250 –		10	SPACE	–	–	–
				11			1250 –	12				
–	–	–	SPACE	13	–			14				
				15		–		16				
				17			–	18				
					5000	3750	3750					

TOTAL CONNECTED LOAD: 12500 VA
CONTINUOUS AT 25%: 3125
25% LARGEST MOTOR: –
TOTAL COMPUTED LOAD: 15625 VA (19 AMPS, 277/480V, 3Ø)
FEEDER: 4– #3, #8(C) IN 1-1/2" C.



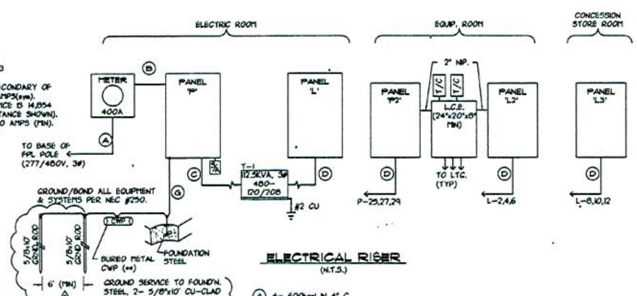
TELEPHONE RISER
(COORD. ALL WORK w/ BELLSOUTH)



WALL FASTENERS
(N.T.S.)
(FOR DIFFERENT WALL TYPES USE APPROVED ANCHOR DEVICES).

COORDINATE ELECTRIC SERVICE w/FPL REPRESENTATIVE: MR. ED PASTORIZA 954-956-2023

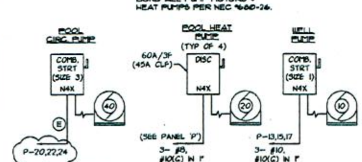
AVAILABLE FAULT CURRENT AT SECONDARY OF FPL'S AERIAL TRANSF. IS 18,579 AMPS(sym). CALC'D. FAULT CURRENT AT SERVICE IS 14,854 AMPS (BASED ON WIRING AND DISTANCE SHOWN). PANEL 'P' SHALL BE RATED 18,000 AMPS (MIN). (FAULT DATA FURNISHED BY FPL).



ELECTRICAL RISER
(N.T.S.)

- (A) 4– 600kcmil IN 4" C.
- (B) 4– 600kcmil 3" NP.
- (C) 3– #2/0, #6(G) IN 2" C.
- (D) (SEE PANEL SCHEDULE)
- (E) 3– #4, #8(C) IN 1-1/4" C.
- (G) #1/0 CU

BOND ALL PUMP MOTORS & HEAT PUMPS PER NEC 680-26.



NOTE:
SEE POOL EQUIPMENT AND MECHANICAL DRAWINGS FOR LOCATIONS OF ALL EQUIPMENT, PUMPS, ETC.

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MITCHELL MOORE PARK AQUATIC CENTER

POMPANO BEACH, FLORIDA

JOB NUMBER	1628-01
FILE No. :	
DRAWN : V.J.F.	
REVIEWED: V.J.F.	
CHECKED : V.J.F.	
DATE : 6-23-06	

ISSUE/REVISIONS

1	7/30/6	BLDG. DEPT. COMMENTS
2	9/25/6	ENG'S REV'S.

SHEET TITLE: POOL BLDG. ELECTRIC DETAILS

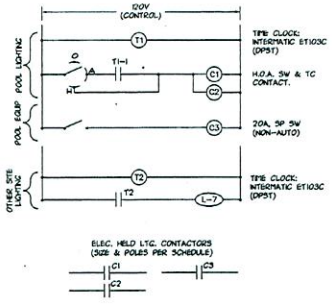
SHEET NUMBER: E-1.02

P:\PRJ\C3TS\Pompano\MitchellMoore\ELEC-BLDG-B-R2.dwg

GENERAL ELECTRICAL NOTES:

(SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).

1. ELECTRIC RUNS SHOWN ARE DIAGRAMMATIC. ACTUAL ROUTING SHALL BE COORDINATED WITH FIELD CONDITIONS AND OTHER TRADES. DO NOT SCALE ELECTRICAL DRAWINGS.
2. ALL CONDUITS SHALL BE 1/2" MINIMUM ABOVE GRADE (3/4" BELOW GROUND) UNLESS OTHERWISE NOTED (UON).
3. ALL WIRE SHALL BE THHN/THWN COPPER, MINIMUM SIZE #12 (UON). ALUMINUM CONDUCTORS ARE NOT PERMITTED.
4. NAMEPLATES SHALL BE PROVIDED AT ALL MAINS AND SWITCHES AND OTHER CONTROL DEVICES WHERE THE LOAD CONTROLLED IS NOT READILY APPARENT.
5. CONTRACTOR SHALL BALANCE LOADS ACROSS ALL SYSTEM PHASE LEGS AND ON SINGLE PHASE 3-WIRE SYSTEMS.
6. ALL MATERIALS, EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA BUILDING CODE (FBC) AND THE 2002 NATIONAL ELECTRICAL CODE (NEC).
7. ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED AND INSURED ELECTRICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE EVIDENCE OF PROPERTY DAMAGE AND PUBLIC LIABILITY INSURANCES.
8. CONDUITS SHALL BE RUN CONCEALED IN ALL FINISHED AREAS. EXPOSED CONDUITS SHALL BE RUN NEAT AND EITHER PARALLEL OR PERPENDICULAR TO WALLS & CEILINGS.
9. EMT MAY BE USED ABOVE GRADE AND OUT OF WEATHER WHEN PERMITTED BY CODE. SCH 40 PVC MAY BE USED UNDERGROUND (UG), WHERE NOT SUBJECT TO PHYSICAL DAMAGE, HEAT OR SUNLIGHT.
10. EXPOSED EXTERIOR CONDUIT SHALL BE RIGID METAL (RMC) OR INTERMEDIATE METAL CONDUIT (IMC). SCH 80 PVC MAY BE USED WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
11. ALL EXPOSED TRANSITIONS FROM UNDERGROUND PVC SHALL BE RMC OR IMC CONDUIT FROM 18" BELOW GRADE INCLUDING NINETY.
12. ALL ELECTRIC EQUIPMENT ENCLOSURES SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
13. OBTAIN ENGINEERS' APPROVAL PRIOR TO PENETRATING STRUCTURAL MEMBERS.
14. IN THE EVENT FIELD CONDITIONS DIFFER FROM CONTRACT DOCUMENTS, FIELD CONDITIONS SHALL GOVERN.
15. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE CAUSED TO EXISTING FACILITIES.
16. MISC. ITEMS OBVIOUSLY REQUIRED FOR A COMPLETE AND OPERATING SYSTEM BUT NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER. (NUTS, BOLTS, MASONRY ANCHORS, CONDUIT AND EQUIP. SUPPORTS, DRILLING, WELDING, SCAFFOLDING, CRANE SERVICE, ETC.)
17. GROUND ALL SYSTEMS AND EQUIPMENT PER NEC #250.
18. ANY EXTERIOR RECEPTACLES SHOWN ON THESE PLANS SHALL BE 20 AMP, SIDE WIRED WITH WP ENCLOSURES WITH SAFETY COVER PER NEC #406.8(B).
19. ALL DISCONNECT SWITCHES SHALL BE SIZED FOR THE LOAD SERVED AND SHALL BE HP RATED, HEAVY DUTY (UON).
20. ALL FUSES SHALL BE CURRENT LIMITING (UON). USE TIME DELAY FOR MOTOR CIRCUITS AND NON-TD FOR MAINS.
21. VERIFY EQUIPMENT CURRENT INTERRUPTING RATINGS FOR ALL EQUIPMENT PRIOR TO CONSTRUCTION.
22. CLOSELY COORDINATE ALL SERVICE ENTRANCE WORK WITH ELECTRIC UTILITY COMPANY.
23. CLOSELY COORDINATE TELEPHONE SERVICE WORK WITH TELEPHONE UTILITY COMPANY.
24. UPON COMPLETION OF WORK, CONTRACTOR SHALL FULLY INSTRUCT OWNER'S REPRESENTATIVE IN COMPLETE OPERATION OF ALL ELECTRICAL SYSTEMS.
25. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A MINIMUM OF ONE YEAR FROM DATE OF ACCEPTANCE.
26. PROVIDE A FUSE HOLDER AND FUSE IN THE PRIMARY SIDE OF EACH UNGROUNDED CONDUCTOR OF ALL UNPROTECTED BALLASTS.
27. ALL UNDERGROUND CONDUITS SHALL BE BURIED WITH A MINIMUM OF 18" COVER. FPL SERVICES SHALL BE 24" MINIMUM. FPL PRIMARY SHALL BE BURIED ACCORDING TO FPL SPEC'S.
28. DISTANCE BETWEEN PULL BOXES SHALL NOT EXCEED 400' AND MAY BE INSTALLED WHERE REQUIRED BY CONTRACTOR FOR EASE OF INSTALLATION.
29. ALL METAL JUNCTION BOXES AND PULL BOXES SHALL BE GROUNDED.
30. ALL ABOVE GROUND WP JUNCTION BOXES SHALL BE GALVANIZED NEMA 3R.
31. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND LOCATE ALL EXISTING UG FACILITIES INCLUDING ELECTRIC POWER, TELEPHONE, CATV, WATER, SEWER, GAS, FLOOD/STORM DRAINAGE, IRRIGATION OR ANY EXISTING UG SYSTEM PRIOR TO ANY EXCAVATIONS.
32. TRENCHES SHALL BE BACKFILLED AND TAMPED TO ORIGINAL DENSITY.
33. RESTORE ALL EXCAVATED & TRENCHED AREAS TO ORIGINAL CONDITIONS, INCLUDING SOD, PAVING, PLANTINGS, ETC.
34. BEFORE FINAL PAYMENT THE CONTRACTOR SHALL PROVIDE TO THE OWNER A COMPLETE SET OF AS-BUILT DRAWINGS. THESE DRAWINGS SHALL INCLUDE MEASUREMENTS OF UG CONDUITS AND PULL BOXES MEASURED TO PERMANENT STRUCTURES OR LANDMARKS.
35. ALL H.I.D. LAMPS SHALL INCLUDE MINIMUM 1 YEAR WARRANTY.
36. SUBMIT SHOP DRAWINGS SEALED BY A FLORIDA REGISTERED ENGINEER ON ALL LIGHTING STANDARDS CERTIFYING STANDARDS TO WITHSTAND 140 MPH WIND LOADING PER F.B.C. WITHOUT DAMAGE.
37. IN THE EVENT THAT LIGHTING STANDARDS TO BE INSTALLED CONFLICT WITH EXISTING FACILITIES OBTAIN ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
38. CL2 AND CHEMICAL CONTROLLERS SHALL BE ELECTRICALLY INTERLOCKED WITH THE FILTER PUMP MOTOR CIRCUIT TO OPERATE ONLY WHEN FILTER PUMP OPERATES. EQUIPMENT ROOM EXH. FANS AND BOOSTER PUMP SHALL BE CONNECTED TO OPERATE WHEN FILTER PUMP OPERATES.
39. ALL METAL POOL EQUIPMENT, MOTORS, HEAT PUMPS AND ENCLOSURES SHALL BE BONDED WITH A #8 SOLID CONDUCTOR PER NEC #680.
40. UNDERGROUND WIRING SHALL NOT BE RUN UNDER OR WITHIN 5' OF INSIDE WALL OF POOL PER NEC.
41. PUMP MOTOR STARTERS SHALL BE EQUIPPED WITH HAND-OFF-AUTOMATIC SWITCHES AND AUXILLARY CONTACTS.



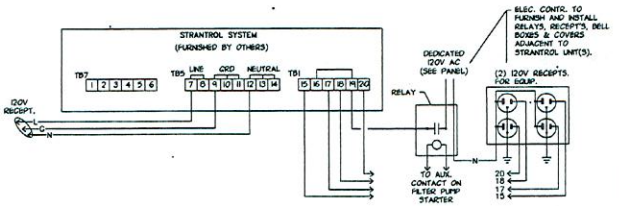
LIGHTING CONTROL DIAGRAM

(N.T.S.)

LTG. CONTACTOR SCHEDULE

Sw.	LC#	AMP/POLE	LOAD	CKT.
1	1	30/8	POOL POLE LTS	P2-L3, 5,7, 9,11 & 2,4
	2	30/6	IN-POOL LTS	L2-2,4,6,8,10
2	3	30/2	POOL EQ. LTS	P2-6,8
TC	-	-	WALL PACKS	L-7

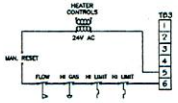
ALL CONTACTORS SHALL BE EQUAL TO SQD CLASS 8903, ELECT. HELD, 480V, WITH 120V COIL, MOUNT IN LTG. CONTROL ENCLOSURE (LCE).
SWITCHES ARE HAND-OFF-AUTO TYPE, MOUNT IN COVER (FACE OF LCE).
TIME CLOCK(S) TO BE EQUAL TO INTERMATIC #ET100C SERIES w/ BATTERY BACKUP.
P/E CELLS SHALL BE EQUAL TO INTERMATIC #K4200 SERIES AND SHALL FACE NORTH AND BE LOCATED AWAY FROM (OR SHIELDED) FROM ARTIFICIAL LIGHT SOURCES.
LTC. CONTROL ENCLOSURE SHALL BE UL LISTED, NEM, HINGED AND LOCKED WITH BACK PANEL FOR MOUNTING EQUIP.



CHEMICAL CONTROL INTERLOCK SCHEMATIC

(TYP - N.T.S.)

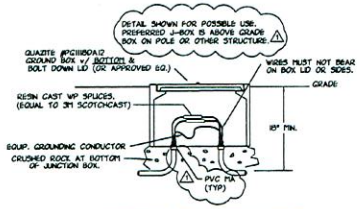
NOTE: SEE POOL DRAWINGS AND CONTROL EQUIPMENT MANUFACTURER'S SCHEMATICS FOR FURTHER INFORMATION. ELECT. CONTRACTOR TO CONNECT ALL CONTROL EQUIPMENT.



HEATER INTERLOCK

(N.T.S.)

A HEATER, WIRED TO THE FILTER CONTROL MICROPROCESSOR, WILL SHUT DOWN 20 MINUTES PRIOR TO CIRC. PUMP SHUTTING DOWN TO ALLOW THE COOL DOWN OF THE HEATER TUBES. WELL PUMP TO BE INTERLOCKED WITH HEAT PUMPS. SEE HEATER MFG'S. RECOMMENDATIONS ON "FIELD INTERLOCK/FIREMAN SWITCH" WIRING.



IN-GROUND PULL BOX (TYP.)

(N.T.S.)

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ISSUE/REVISIONS		
1	7/30/6	BLDG. DEPT. COMMENTS.
2	9/25/6	ENG'S REV'S.

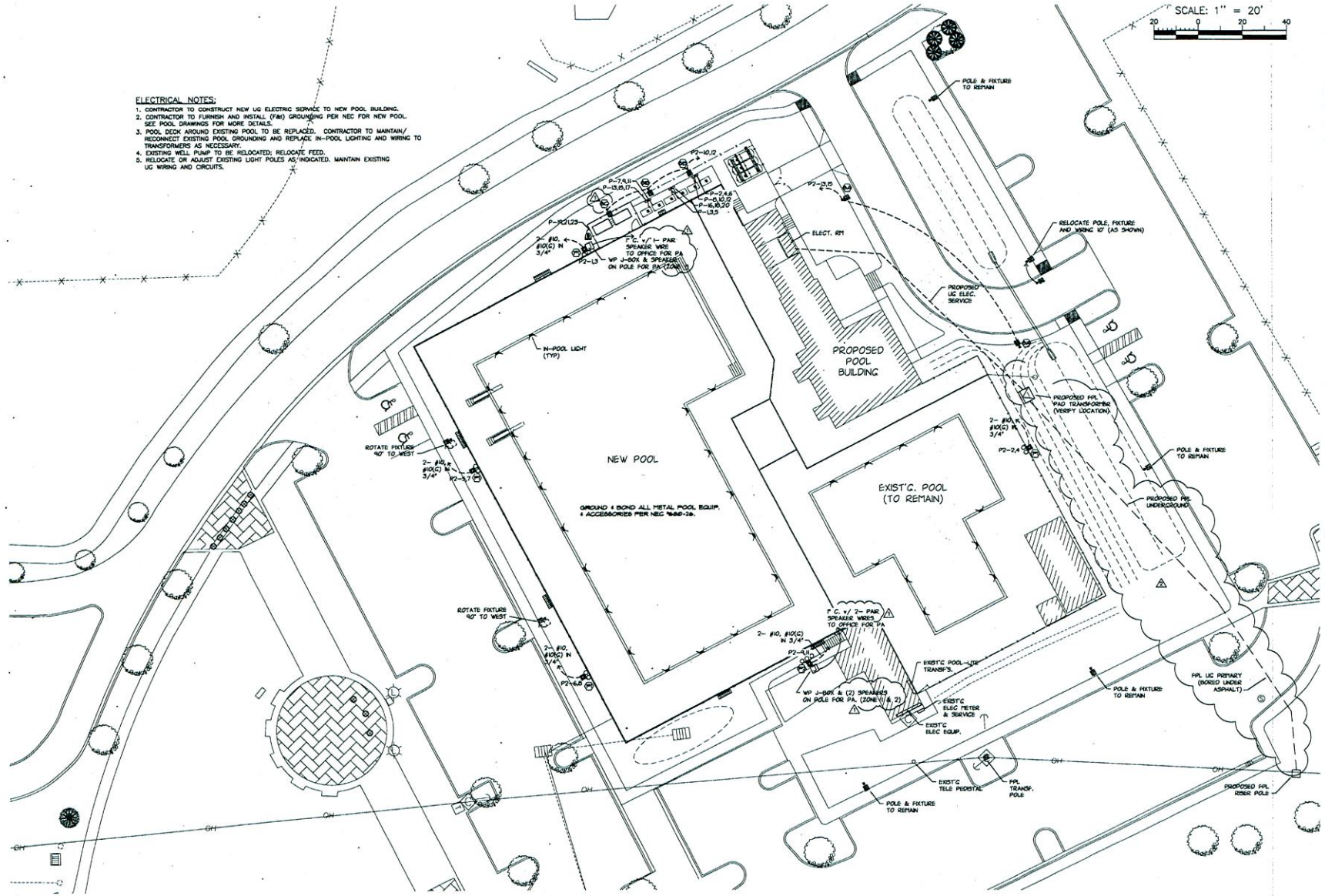
SHEET TITLE
ELECTRIC DETAILS, and NOTES

SHEET NUMBER
E-1.03

P:\PR2\C3TS\Pompano\Bk\MoPark\ELEC-BLDG-B-R2.dwg

ELECTRICAL NOTES:

1. CONTRACTOR TO CONSTRUCT NEW UG ELECTRIC SERVICE TO NEW POOL BUILDING.
2. CONTRACTOR TO FURNISH AND INSTALL (7ea) GROUNDING PER NEC FOR NEW POOL. SEE POOL DRAWINGS FOR MORE DETAILS.
3. POOL DECK AROUND EXISTING POOL TO BE REPLACED. CONTRACTOR TO MAINTAIN/ RECONNECT EXISTING POOL GROUNDING AND REPLACE IN-POOL LIGHTING AND WIRING TO TRANSFORMERS AS NECESSARY.
4. EXISTING WELL PUMP TO BE RELOCATED; RELOCATE FEED.
5. RELOCATE OR ADJUST EXISTING LIGHT POLES AS INDICATED. MAINTAIN EXISTING UG WIRING AND CIRCUITS.



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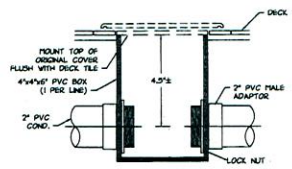
1	7/29	ADDENDA #1

SHEET TITLE

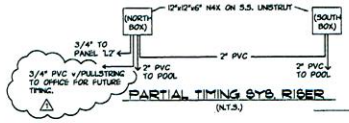
SITE ELECTRIC PLAN

SHEET NUMBER

E-01

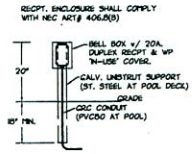


4x4 DECK BOX DETAIL
(N.T.S.)

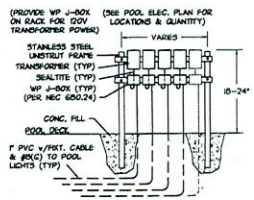


PARTIAL TIMING SYS. RISER
(N.T.S.)

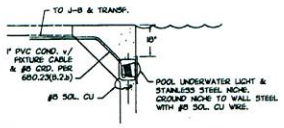
SCALE: 1" = 10'



WP DUPLEX RECPT.
(TYP - N.T.S.)

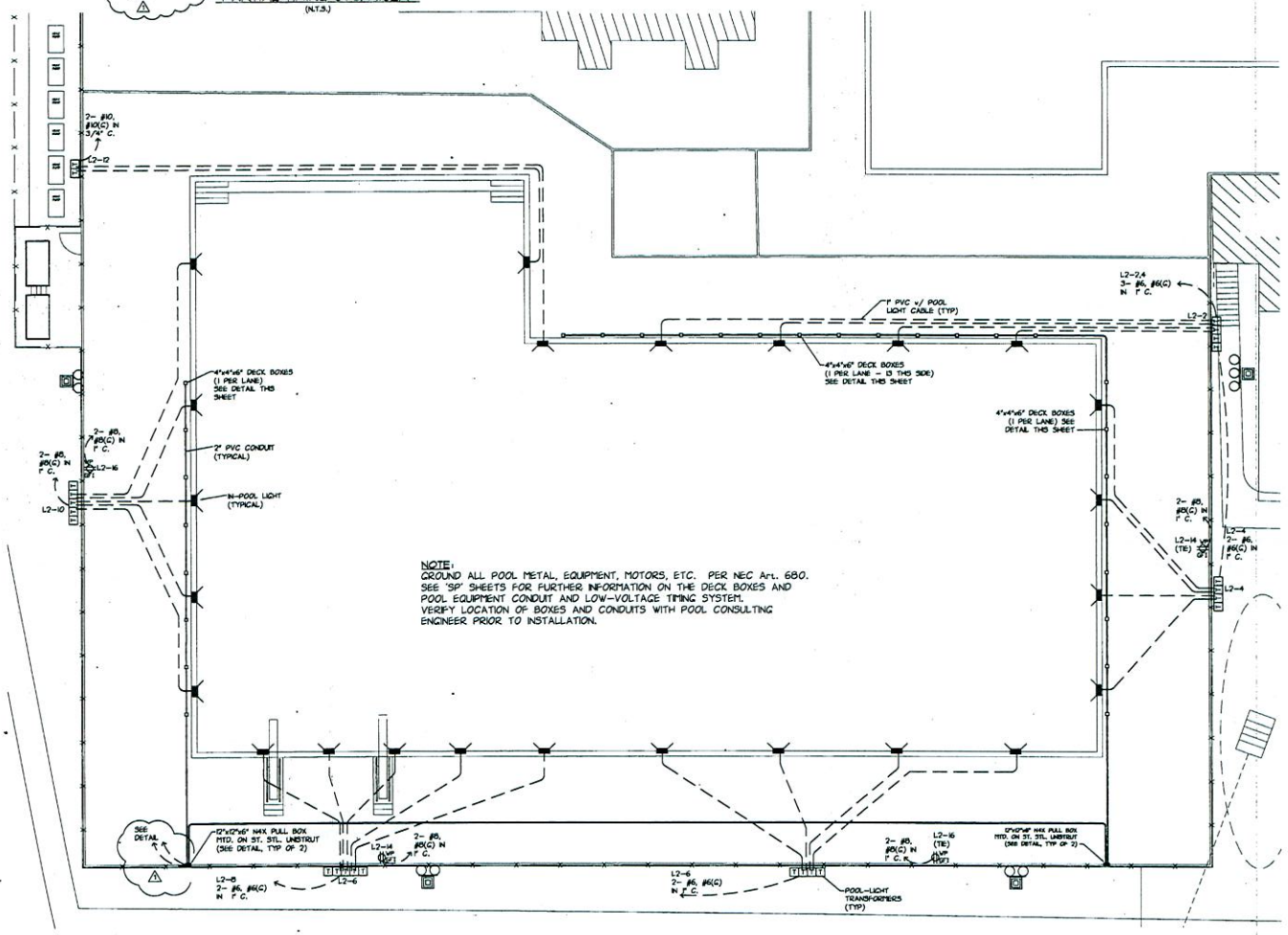


POOL TRANSFORMER RACK
(TYP - N.T.S.)



NOTE:
ALL WORK SHALL BE DONE IN STRICT COMPLIANCE w/ ARTICLE 680 N.E.C. AND ALL LOCAL BUILDING DEPT. REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MEETING THESE CRITERIA.

POOL LIGHT DETAIL
(N.T.S.)



NOTE:
GROUND ALL POOL METAL, EQUIPMENT, MOTORS, ETC. PER NEC Art. 680.
SEE 'SP' SHEETS FOR FURTHER INFORMATION ON THE DECK BOXES AND POOL EQUIPMENT CONDUIT AND LOW-VOLTAGE TIMING SYSTEM.
VERIFY LOCATION OF BOXES AND CONDUITS WITH POOL CONSULTING ENGINEER PRIOR TO INSTALLATION.

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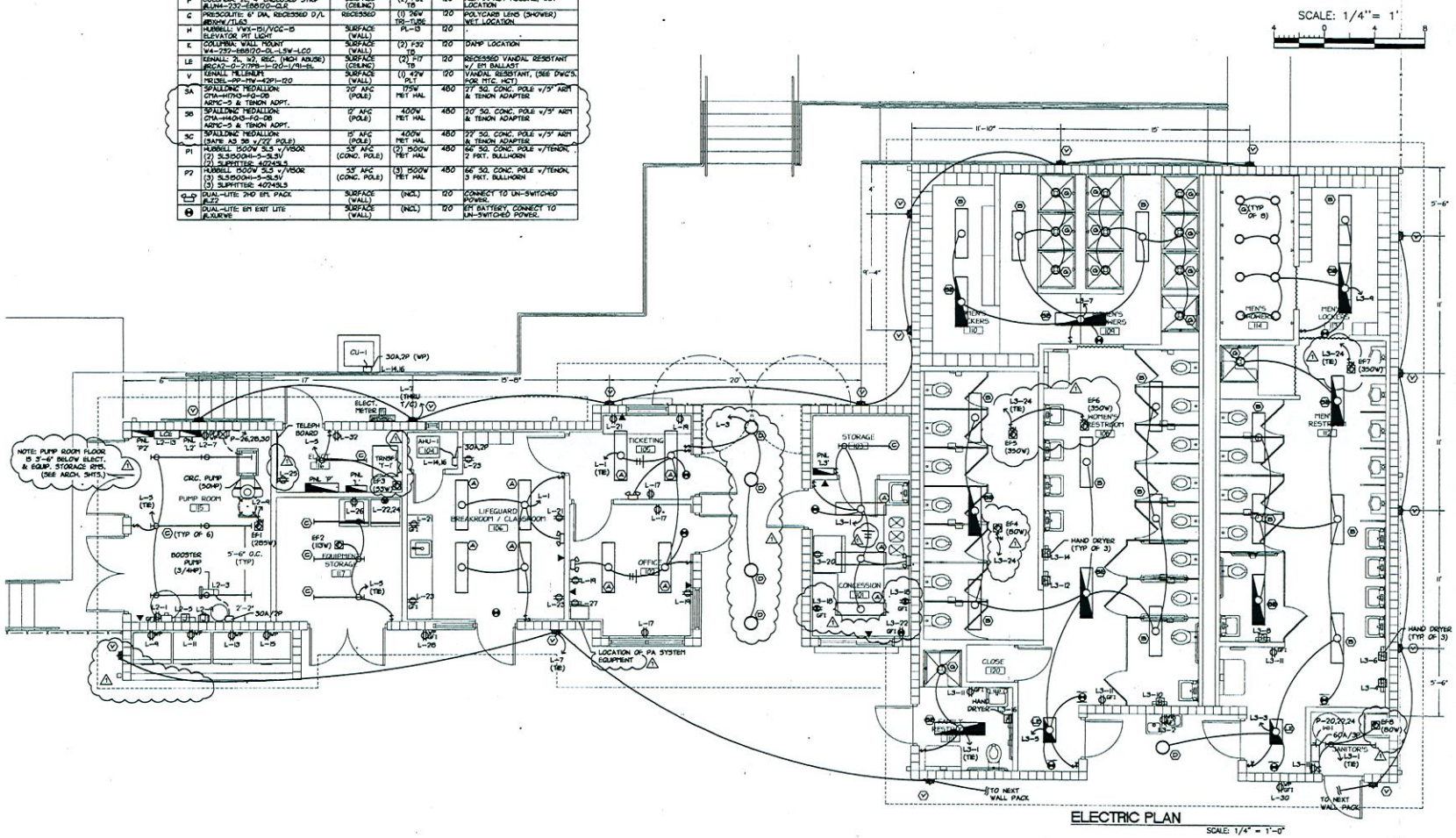
SHEET TITLE
POOL DECK ELECTRIC PLAN

SHEET NUMBER
E-02

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	REMARKS
A	COLUMBIA: 4' 2L WRAPAROUND #WC4-232-EB5120	SURFACE (CEILING)	(2) F32 T8	120	.
B	KENALL: 2L, W4, SURF. (HIGH ABUSE) #HIGHSP232EB120	SURFACE (CEILING)	(2) F32 T8	120	VANDAL RESISTANT
B6	KENALL: 2L, W4, SURF. (HIGH ABUSE) #HIGH48-C-232EB-1-120 & B50 BOONE	SURFACE (CEILING)	(2) F32 T8	120	VANDAL RESISTANT w/ EM BALLAST (FIELD INSTALL)
C	COLUMBIA: 2L FL STRIP, WIRE GUARD C34-232-EB5120-C3WG4	SURFACE (CEILING)	(2) F32 T8	120	.
D	KENALL MILLENNIUM MR12FL-PP-MV-42P1-120	SURFACE (CEILING)	42W PLT	120	VANDAL RESISTANT (1 POSIGRIP SCREWDRIVER)
F	COLUMBIA: 2L, 4' ENCLOSED STRIP #LUN4-232-EB5120-CLR	SURFACE (CEILING)	(2) F32 T8	120	HIGH IMPACT HOUSING, WET LOCATION
G	PRESCOLITE: 6" DIA, RECESSED D/L #B10MV/TL63	RECESSED	(1) 26W TRI-TUBE	120	POLYCARB LENS (SHOWER) WET LOCATION.
H	HUBBELL: VWX-151/VCC-15 ELEVATOR PIT LIGHT	SURFACE (WALL)	PL-13	120	.
K	COLUMBIA: WALL MOUNT W4-232-EB5120-GL-LSV-LCG	SURFACE (WALL)	(2) F32 T8	120	DAMP LOCATION
LE	KENALL: 2L, W2, REC. (HIGH ABUSE) #RC2-0-2179B-1-120-1/R1-EL	SURFACE (CEILING)	(2) F17 T8	120	RECESSED VANDAL RESISTANT w/ EM BALLAST
V	KENALL MILLENIUM MR12EL-PP-MV-42P1-120	SURFACE (WALL)	(1) 42W PLT	120	VANDAL RESISTANT, (SEE DWG'S. FOR MTG. HGT)
3A	SPAULDING MEDALLION: CMA-44743-FG-DB ARM2-5 & TENON ADPT.	20' AFC (POLE)	175W MET HAL	480	27' SQ. CONC. POLE w/5' ARM & TENON ADAPTER
3B	SPAULDING MEDALLION: CMA-44643-FG-DB ARM2-5 & TENON ADPT.	0' AFC (POLE)	400W MET HAL	480	27' SQ. CONC. POLE w/5' ARM & TENON ADAPTER
3C	SPAULDING MEDALLION: (SAME AS 3B w/ 22' POLE)	15' AFC (POLE)	400W MET HAL	480	22' SQ. CONC. POLE w/5' ARM & TENON ADAPTER
P1	HUBBELL 1500W SLS v/VSO2 (2) SLS1500H1-S-SLSV (2) SUPPITTER: 402453.5	53' AFC (CONC. POLE)	(2) 1500W MET HAL	480	66' SQ. CONC. POLE w/TENON, 2 PKT. BULLHORN
P2	HUBBELL 1500W SLS v/VSO2 (3) SLS1500H1-S-SLSV (3) SUPPITTER: 402453.5	53' AFC (CONC. POLE)	(3) 1500W MET HAL	480	66' SQ. CONC. POLE w/TENON, 3 PKT. BULLHORN
	DUAL-LITE: 340 EM. PACK #LP2	SURFACE (WALL)	(NCL)	120	CONNECT TO UN-SWITCHED POWER.
	DUAL-LITE: EM EXIT LITE #LXUEWE	SURFACE (WALL)	(NCL)	120	EM BATTERY, CONNECT TO UN-SWITCHED POWER.



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SHEET TITLE
POOL BLDG. ELECTRIC PLAN

SHEET NUMBER
E-1.01

TYPE SqD 'HCM' (OR EQ.) SERVICE 277/480V, 3Ø,4W MOUNTING SURF POLE 42					PANEL P					MAIN BUS 600 AMP NEUTRAL FULL MAIN 600A MCB AIC 18,000		
BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
50/3	1"	#8	HEAT PUMP 4 (15HP)	1	6500 6500			2	HEAT PUMP 1 (15HP)	#8	1"	50/3
				3		6500 6500		4				
				5			6500 6500	6				
50/3	1"	#8	HEAT PUMP 5 (15HP)	7	6500 6500			8	HEAT PUMP 2 (15HP)	#8	1"	50/3
				9		6500 6500		10				
				11			6500 6500	12				
50/3	1"	#8	HEAT PUMP 6 (15HP)	13	6500 6500			14	HEAT PUMP 3 (15HP)	#8	1"	50/3
				15		6500 6500		16				
				17			6500 6500	18				
35/3	1"	#10	WELL PUMP (10HP)	19	3880 12000			20	WATER HEATER	#6	1"	60/3
				21		3880 12000		22				
				23			3880 12000	24				
100/3	1-1/2"	#2	PANEL 'P2'	25	9000 18000			26	CIRC. PUMP (30HP)	#4	1-1/4"	150/3
				27		9000 18000		28				
				29			9000 18000	30				
			SPACE	31	– 37500			32	TRANSF. 'T-1'	#2/0	2"	175/3
				33		– 37500		34				
				35			– 37500	36				
				37				38	SURGE PROTECTOR	#12	1/2"	20/3
				39				40				
				41				42				
					19380	19380	19380					

TOTAL CONNECTED LOAD: 358140 VA
CONTINUOUS AT 25%: –
25% LARGEST MOTOR: 13500
TOTAL COMPUTED LOAD: 371640 VA (448 AMPS, 277/480V, 3Ø)
FEEDER: 2 SETS: 3– 300kcmil, 1– 2/0(N) IN 2-1/2" C.

TYPE SqD 'NF' (OR EQ.) SERVICE 277/480V, 3Ø,4W MOUNTING N3R POLE 18					PANEL P2					MAIN BUS 100 AMP NEUTRAL FULL MAIN LUGS ONLY AIC 18,000		
BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/2	3/4"	#10	POLE LTS	1	1770 1770			2	POLE LTS	#10	3/4"	20/2
				3		1770 1770		4				
20/2	3/4"	#10	POLE LTS	5			1770 1770	6	POLE LTS	#10	3/4"	20/2
				7	1770 1770			8				
20/2	3/4"	#10	POLE LTS	9		2655 720		10	EQ. POLE LTS.	#10	3/4"	20/2
				11			2655 720	12				
20/2	3/4"	#10	DRIVEWAY LTG	13	220 –			14	SPACE			
				15		220 –		16				
			SPACE	17			– –	18				
					7300	7135	6915					

TOTAL CONNECTED LOAD: 21350 VA
CONTINUOUS AT 25%: 5338
25% LARGEST MOTOR: –
TOTAL COMPUTED LOAD: 26688 VA (32 AMPS, 277/480V, 3Ø)
FEEDER: 3– #2, #8(C) IN 1-1/2" C.

TYPE SqD 'NQOD' (OR EQ.) SERVICE 120/208V, 3Ø,4W MOUNTING SURF POLE 42					PANEL L					MAIN BUS 400 AMP NEUTRAL FULL MAIN 350A MCB AIC 10,000		
BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/1	1/2"	#12	LTS. OFFICES/TICKETS	1	800 7000			2	PANEL 'L2'	#1	2"	100/3
20/1	1/2"	#12	LTS BREEZEWAY	3		300 7000		4				
20/1	1/2"	#12	LTS. EQUIP RM	5			1200 7000	6				
20/1	1/2"	#10	LTS. WALL PACKS	7	460 10300			8	PANEL 'L3'	#1	2"	100/3
20/1	1/2"	#12	VENDING MACHINE	9		1000 10300		10				
20/1	1/2"	#12	VENDING MACHINE	11			1000 10300	12				
20/1	1/2"	#12	VENDING MACHINE	13	1000 3500			14	A.H.U.	#8	3/4"	40/2
20/1	1/2"	#12	VENDING MACHINE	15		1000 3500		16				
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	17			540 (NC)	18	C.U.	#12	3/4"	20/2
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	19	540 (NC)			20				
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	21		540 2500		22	CLOTHES DRYER	#10	1/2"	30/2
20/1	1/2"	#12	RECPTS OFFICE/TICK'T	23			540 2500	24				
20/1	1/2"	#12	TELEPHONE BOARD	25	300 1500			26	WASHER	#12	1/2"	20/1
20/1	1/2"	#12	PA SYSTEM	27		1000 500		28	WP RECPTS	#12	1/2"	20/1
20/1	–	–	SPARE	29			1500 500	30	WP RECPTS	#12	1/2"	20/1
20/1	–	–	SPARE	31	500 500			32	RECEPT.	#12	1/2"	20/1
–	–	–	SPACE	33		– –		34	SPACE	–	–	–
				35			1000 1000	36				
				37				38				
				39				40				
				41				42				
					26900	27640	27080					

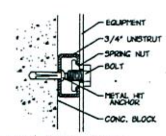
TOTAL CONNECTED LOAD: 81620 VA
CONTINUOUS AT 25%: 815
25% LARGEST MOTOR: –
TOTAL COMPUTED LOAD: 82435 VA (229 AMPS, 120/208V, 3Ø)
FEEDER: 4– 400kcmil, #3(C) IN 3" C.

TYPE SqD 'NQOD' (OR EQ.) SERVICE 120/208V, 3Ø,4W MOUNTING N3R POLE 24					PANEL L2					MAIN BUS 100 AMP NEUTRAL FULL MAIN LUGS ONLY AIC 10,000		
BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/1	1/2"	#12	STRANTROL-1	1	500 1200			2	IN-POOL LTS	#6	1"	20/1
20/1	1/2"	#12	BOOSTER (3/4)	3		1650 1200		4	IN-POOL LTS	#6	1"	20/1
20/1	1/2"	#12	CL2 FDR W/HP	5			2000 1200	6	IN-POOL LTS	#6	1"	20/1
20/1	1/2"	#12	RECEPT.	7	500 1500			8	IN-POOL LTS	#6	1"	20/1
20/1	1/2"	#12	POOL EQ EX FAN	9		350 1500		10	IN-POOL LTS	#8	1"	20/1
20/1	1/2"	#12	CO2 FDR	11			1000 600	12	IN-POOL LTS	#10	3/4"	20/1
20/1	1/2"	#12	LTG. CONTROLS	13	300 500			14	WP DECK RECEPT'S	#8	1"	20/1
20/1	–	–	SPARE	15		800 –		16	WP DECK RECEPT'S	#8	1"	20/1
20/1	–	–	SPARE	17			700 –	18	SPACE	–	–	–
			SPACE	19	–			20	SPACE			
				21				22				
				23				24				
					5500	5500	5500					

TOTAL CONNECTED LOAD: 16500 VA
CONTINUOUS AT 25%: 1800
25% LARGEST MOTOR: 500
TOTAL COMPUTED LOAD: 18800 VA (52 AMPS, 120/208V, 3Ø)
FEEDER: 4– #1, #6(C) IN 2" C.

TYPE SqD 'NQOD' (OR EQ.) SERVICE 120/208V, 3Ø,4W MOUNTING SURF POLE 30					PANEL L3					MAIN BUS 225 AMP NEUTRAL FULL MAIN LUGS ONLY AIC 10,000		
BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	VA C	CKT #	REMARKS	WIRE	COND.	BKR
20/1	1/2"	#12	LTS. CONCESS/STRG	1	920 1000			2	DRINKING FOUNT	#12	1/2"	20/1
20/1	1/2"	#12	LTS. MENS RM	3		835 2300		4	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	LTS. WOMENS RM	5			900 2300	6	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	LTS WOMENS SHOWER	7	1250 2300			8	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	LTS. MENS SHOWER	9		800 2300		10	HAND DRYER	#10	1/2"	20/1
20/1	1/2"	#12	RECPTS RESTROOMS	11			720 2300	12	HAND DRYER	#10	1/2"	20/1
20/1	–	–	SPARE	13	1000 2300			14	HAND DRYER	#10	1/2"	20/1
20/1	–	–	SPARE	15		1000 2300		16	HAND DRYER	#10	1/2"	20/1
20/1	–	–	SPARE	17			1000 1000	18	RECEPTS CONCESS	#12	1/2"	20/1
			SPACE	19	– 1000			20	RECEPTS CONCESS	#12	1/2"	20/1
				21		– 500		22	RECEPTS CONCESS	#12	1/2"	20/1
				23			– 1325	24	EXH. FANS (4,5,6,7)	#12	1/2"	20/1
				25				26	SPACE	–	–	–
				27				28				
				29				30				
					9770	10035	9545					

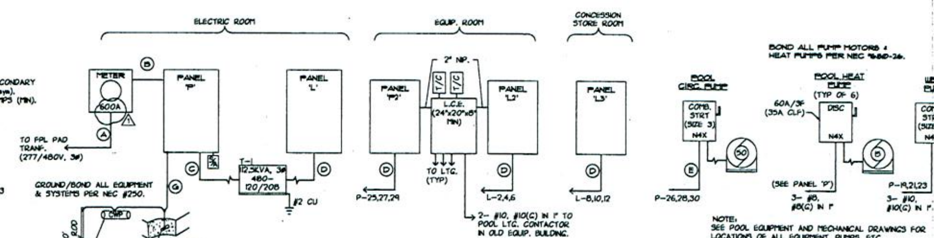
TOTAL CONNECTED LOAD: 29350 VA
CONTINUOUS AT 25%: 1508
25% LARGEST MOTOR: –
TOTAL COMPUTED LOAD: 30858 VA (86 AMPS, 120/208V, 3Ø)
FEEDER: 4– #1, #6(C) IN 2" C.



WALL FASTENERS
(N.T.S.)
(FOR DIFFERENT WALL TYPES USE APPROVED ANCHOR DEVICES).

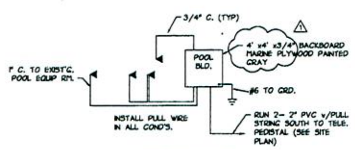
AVAILABLE FAULT CURRENT AT SECONDARY OF FPL'S TRANSF. IS 9,768 AMPS(sym). MAINS SHALL BE RATED 10,000 AMPS (MIN). (FAULT DATA FURNISHED BY FPL).

COORDINATE ELECTRIC SERVICE w/FPL REPRESENTATIVE: MR. SEAN NESSELT 954-956-2023



ELECTRICAL RISER
(N.T.S.)

- (A) 2 SETS: 3– 300kcmil, 1– #3/0(N) IN 3" C.
- (B) 2 SETS: 3– 300kcmil, 1– #3/0(N) IN 2-1/2" NP.
- (C) 3– #2/0, #6(G) IN 2" C.
- (D) (SEE PANEL SCHEDULE)
- (E) 3– #4, #8(G) IN 1-1/4" C.
- (G) #1/0 CU



TELEPHONE RISER
(COORD. ALL WORK w/ BELLSOUTH)

Architects
Engineers
Planners
3996 N.W. 9th Avenue
Ft. Lauderdale, FL 33309
Voice 954.565.2113 Fax 954.567.4079
AAC002142 EB0005022

ELECTRICAL ENGINEER:
CONSTRUCTION CONSULTANTS OF FLORIDA INC.
EB 5351
CONSULTING ENGINEERS
1445 S.W. 21st Avenue
Fort Lauderdale, Florida
(954) 584-7904

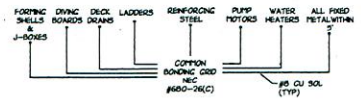
COMMUNITY PARK
AQUATIC CENTER
820 NE 18th AVENUE
POMPANO BEACH, FLORIDA

JOB NUMBER	1628-03
FILE No. :	
DRAWN : V.J.F.	
REVIEWED: V.J.F.	
CHECKED : V.J.F.	
DATE : 7-12-05	
ISSUE/REVISIONS	
1	7/29 ADDENDA #1
SHEET TITLE	POOL BLDG. ELECTRIC DETAILS
SHEET NUMBER	E-1.02

GENERAL ELECTRICAL NOTES:

(SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).

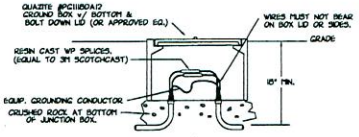
1. ELECTRIC RUNS SHOWN ARE DIAGRAMMATIC. ACTUAL ROUTING SHALL BE COORDINATED WITH FIELD CONDITIONS AND OTHER TRADES. DO NOT SCALE ELECTRICAL DRAWINGS.
2. ALL CONDUITS SHALL BE 1/2" MINIMUM ABOVE GRADE (3/4" BELOW GROUND) UNLESS OTHERWISE NOTED (UON).
3. ALL WIRE SHALL BE THHN/THWN COPPER, MINIMUM SIZE #12 (UON). ALUMINUM CONDUCTORS ARE NOT PERMITTED.
4. NAMEPLATES SHALL BE PROVIDED AT ALL MAINS AND SWITCHES AND OTHER CONTROL DEVICES WHERE THE LOAD CONTROLLED IS NOT READILY APPARENT.
5. CONTRACTOR SHALL BALANCE LOADS ACROSS ALL SYSTEM PHASE LEGS AND ON SINGLE PHASE 3-WIRE SYSTEMS.
6. ALL MATERIALS, EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA BUILDING CODE (FBC) AND THE 2002 NATIONAL ELECTRICAL CODE (NEC).
7. ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED AND INSURED ELECTRICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE EVIDENCE OF PROPERTY DAMAGE AND PUBLIC LIABILITY INSURANCES.
8. CONDUITS SHALL BE RUN CONCEALED IN ALL FINISHED AREAS. EXPOSED CONDUITS SHALL BE RUN NEAT AND EITHER PARALLEL OR PERPENDICULAR TO WALLS & CEILINGS.
9. EMT MAY BE USED ABOVE GRADE AND OUT OF WEATHER WHEN PERMITTED BY CODE. SCH 40 PVC MAY BE USED UNDERGROUND (UG), WHERE NOT SUBJECT TO PHYSICAL DAMAGE, HEAT OR SUNLIGHT.
10. EXPOSED EXTERIOR CONDUIT SHALL BE RIGID METAL (RMC) OR INTERMEDIATE METAL CONDUIT (IMC). SCH 80 PVC MAY BE USED WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
11. ALL EXPOSED TRANSITIONS FROM UNDERGROUND PVC SHALL BE RMC OR IMC CONDUIT FROM 18" BELOW GRADE INCLUDING NINETY.
12. ALL ELECTRIC EQUIPMENT ENCLOSURES SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
13. OBTAIN ENGINEERS' APPROVAL PRIOR TO PENETRATING STRUCTURAL MEMBERS.
14. IN THE EVENT FIELD CONDITIONS DIFFER FROM CONTRACT DOCUMENTS, FIELD CONDITIONS SHALL GOVERN.
15. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE CAUSED TO EXISTING FACILITIES.
16. MISC. ITEMS OBVIOUSLY REQUIRED FOR A COMPLETE AND OPERATING SYSTEM BUT NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER. (NUTS, BOLTS, MASONRY ANCHORS, CONDUIT AND EQUIP. SUPPORTS, DRILLING, WELDING, SCAFFOLDING, CRANE SERVICE, ETC.)
17. GROUND ALL SYSTEMS AND EQUIPMENT PER NEC §250.
18. ANY EXTERIOR RECEPTACLES SHOWN ON THESE PLANS SHALL BE 20 AMP, SIDE WIRED WITH WP ENCLOSURES WITH SAFETY COVER PER NEC §406.8(B).
19. ALL DISCONNECT SWITCHES SHALL BE SIZED FOR THE LOAD SERVED AND SHALL BE HP RATED, HEAVY DUTY (UON).
20. ALL FUSES SHALL BE CURRENT LIMITING (UON). USE TIME DELAY FOR MOTOR CIRCUITS AND NON-TD FOR MAINS.
21. VERIFY EQUIPMENT CURRENT INTERRUPTING RATINGS FOR ALL EQUIPMENT PRIOR TO CONSTRUCTION.
22. CLOSELY COORDINATE ALL SERVICE ENTRANCE WORK WITH ELECTRIC UTILITY COMPANY.
23. CLOSELY COORDINATE TELEPHONE SERVICE WORK WITH TELEPHONE UTILITY COMPANY.
24. UPON COMPLETION OF WORK, CONTRACTOR SHALL FULLY INSTRUCT OWNER'S REPRESENTATIVE IN COMPLETE OPERATION OF ALL ELECTRICAL SYSTEMS.
25. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A MINIMUM OF ONE YEAR FROM DATE OF ACCEPTANCE.
26. PROVIDE A FUSE HOLDER AND FUSE IN THE PRIMARY SIDE OF EACH UNGROUNDED CONDUCTOR OF ALL UNPROTECTED BALLASTS.
27. ALL UNDERGROUND CONDUITS SHALL BE BURIED WITH A MINIMUM OF 18" COVER. FPL SERVICES SHALL BE 24" MINIMUM. FPL PRIMARY SHALL BE BURIED ACCORDING TO FPL SPEC'S.
28. DISTANCE BETWEEN PULL BOXES SHALL NOT EXCEED 400' AND MAY BE INSTALLED WHERE REQUIRED BY CONTRACTOR FOR EASE OF INSTALLATION.
29. ALL METAL JUNCTION BOXES AND PULL BOXES SHALL BE GROUNDED.
30. ALL ABOVE GROUND WP JUNCTION BOXES SHALL BE GALVANIZED NEMA 3R.
31. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND LOCATE ALL EXISTING UG FACILITIES INCLUDING ELECTRIC POWER, TELEPHONE, CATV, WATER, SEWER, GAS, FLOOD/STORM DRAINAGE, IRRIGATION OR ANY EXISTING UG SYSTEM PRIOR TO ANY EXCAVATIONS.
32. TRENCHES SHALL BE BACKFILLED AND TAMPED TO ORIGINAL DENSITY.
33. RESTORE ALL EXCAVATED & TRENCHED AREAS TO ORIGINAL CONDITIONS, INCLUDING SOD, PAVING, PLANTINGS, ETC.
34. BEFORE FINAL PAYMENT THE CONTRACTOR SHALL PROVIDE TO THE OWNER A COMPLETE SET OF AS-BUILT DRAWINGS. THESE DRAWINGS SHALL INCLUDE MEASUREMENTS OF UG CONDUITS AND PULL BOXES MEASURED-TO PERMANENT STRUCTURES OR LANDMARKS.
35. ALL H.I.D. LAMPS SHALL INCLUDE MINIMUM 1 YEAR WARRANTY.
36. SUBMIT SHOP DRAWINGS SEALED BY A FLORIDA REGISTERED ENGINEER ON ALL LIGHTING STANDARDS CERTIFYING STANDARDS TO WITHSTAND 140 MPH WIND LOADING PER F.B.C. WITHOUT DAMAGE.
37. IN THE EVENT THAT LIGHTING STANDARDS TO BE INSTALLED CONFLICT WITH EXISTING FACILITIES OBTAIN ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
38. CL2 AND CHEMICAL CONTROLLERS SHALL BE ELECTRICALLY INTERLOCKED WITH THE FILTER PUMP MOTOR CIRCUIT TO OPERATE ONLY WHEN FILTER PUMP OPERATES. EQUIPMENT ROOM EXH. FANS AND BOOSTER PUMP SHALL BE CONNECTED TO OPERATE WHEN FILTER PUMP OPERATES.
39. ALL METAL POOL EQUIPMENT, MOTORS, HEAT PUMPS AND ENCLOSURES SHALL BE BONDED WITH A #8 SOLID CONDUCTOR PER NEC §680.
40. UNDERGROUND WIRING SHALL NOT BE RUN UNDER OR WITHIN 5' OF INSIDE WALL OF POOL PER NEC.
41. PUMP MOTOR STARTERS SHALL BE EQUIPPED WITH HAND-OFF-AUTOMATIC SWITCHES AND AUXILLARY CONTACTS.



POOL BONDING RISER

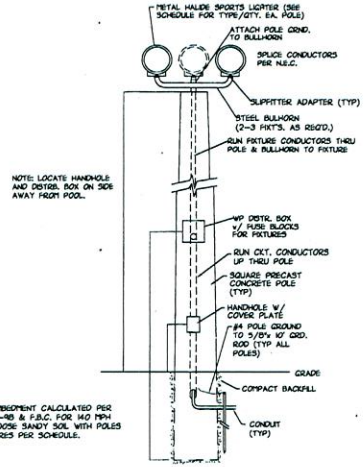
(N.T.S.)

ALL POOL BONDING PER NEC §680-26.



IN-GROUND PULL BOX (TYP.)

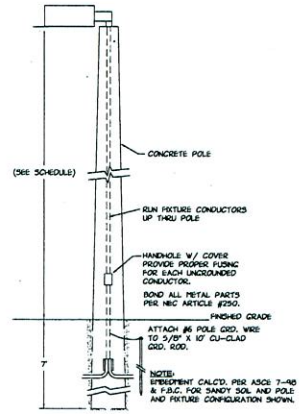
(N.T.S.)



POLE DETAIL

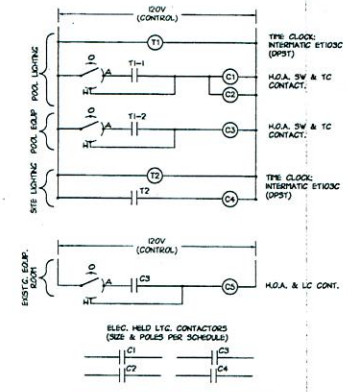
(N.T.S.)

NOTE:
POLE EMBEDMENT CALCULATED PER ASCE 7-95 & F.B.C. FOR 140 MPH WIND. LOOSE SANDY SOIL WITH POLES & FIXTURES PER SCHEDULE.



SPAULDING POLE DETAIL

(N.T.S.)



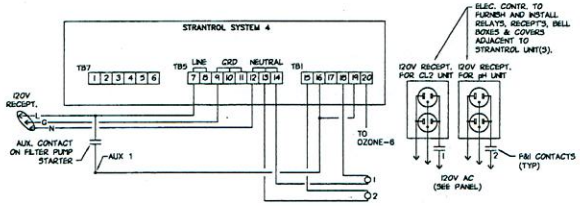
LIGHTING CONTROL DIAGRAM

(N.T.S.)

LTG. CONTACTOR SCHEDULE

Qty.	LC#	AMP/POLE	LOAD	CKT.
1	1	30/10	POOL POLE LTS	P2-L3, 2,4, 5,7, 6,8, & 9,11
	2	30/6	IN-POOL LTS	L2-2,4,6,8,10 & EXIST. POOL LT. CONTR.
2	3	30/2	POOL EQ. LTS	P2-10,12
TC	4	30/4	DRIVEWAY LTS	P2-13,15
			WALL PACKS	L-7

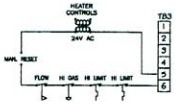
ALL CONTACTORS SHALL BE EQUAL TO SQ.D CLASS 8903, ELECT. HELD, 480V, WITH 120V COIL, MOUNT IN L.T.C. CONTROL ENCLOSURE (LCE).
SWITCHES ARE HAND-OFF-AUTO TYPE, MOUNT IN COVER (FACE OF LCE).
TIME CLOCK(S) TO BE EQUAL TO INTERMATIC #ET100C 36283 w/ BATTERY BACKUP.
P/E CELLS SHALL BE EQUAL TO INTERMATIC #K4200 36283 AND SHALL FACE NORTH AND BE LOCATED AWAY FROM (OR SHELDED) FROM ARTIFICIAL LIGHT SOURCES.
L.T.C. CONTROL ENCLOSURE SHALL BE UL LISTED, N3R, HINGED AND LOCKED WITH BACK PANEL FOR MOUNTING EQUIP.



CHEMICAL CONTROL INTERLOCK SCHEMATIC

(TYP - N.T.S.)

NOTE: SEE POOL DRAWINGS AND CONTROL EQUIPMENT MANUFACTURER'S SCHEMATICS FOR FURTHER INFORMATION. ELECT. CONTRACTOR TO CONNECT ALL CONTROL EQUIPMENT.

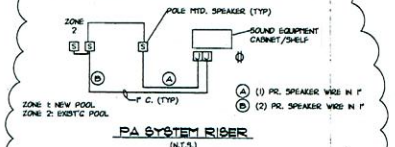


HEATER INTERLOCK

(N.T.S.)

A HEATER, WIRED TO THE FILTER CONTROL MICROPROCESSOR, WILL SHUT DOWN 20 MINUTES PRIOR TO CIRC. PUMP SHUTTING DOWN TO ALLOW THE COOL DOWN OF THE HEATER TUBES. SEE HEATER MFG'S. RECOMMENDATIONS ON "FIELD INTERLOCK/FIREMAN SWITCH" WIRING.

PA SYSTEM NOTES:
1. CONTRACTOR TO FURNISH AND INSTALL PA SYSTEM AS INDICATED.
2. OPERATION TO ALLOW OPERATION OF EITHER ZONE INDIVIDUALLY OR BOTH ZONES TOGETHER AND SEPARATE VOLUME ADJUSTMENT FOR EACH ZONE.



PA SYSTEM RISER

(N.T.S.)

EQUIPMENT LIST:
A. (1) "AUDIO-TECHNICA 3000 SERIES ATW-3141C" HAND-HELD WIRELESS SYSTEM (EXTERNAL ANTENNAS MIGHT BE REQUIRED; DEPENDING UPON BUILDING'S STRUCTURAL MAKEUP)
B. (1) "SHURE 450II" DESKTOP MICROPHONE
C. (1) "TOA M-01F" MICROPHONE INPUT MODULE
D. (1) "TOA A-912MK2" 120WATT MIXER/AMPLIFIER
E. (2) "ATLAS SOUND AT-100" VOLUME CONTROL w/ CUSTOM ON/OFF SWITCH (ZONES 1 AND 2)
F. (3) "ATLAS SOUND APX40TN" (tap at 30w max.) EXTERIOR PAGING HORN
G. (3) CUSTOM MOUNTING BRACKETS
H. (1) "ATLAS SOUND SHS03-052" EQUIPMENT SHELF (for mixer/amp.)
I. (as req) "WEST PENN AQ225" SPEAKER WIRE

GJTS
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AAC002142 EB00005022
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CONSTRUCTION CONSULTANTS OF FLORIDA INC.
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COMMUNITY PARK AQUATIC CENTER
820 NE 18th AVENUE
POMPANO BEACH, FLORIDA

JOB NUMBER 1628-03

FILE No. :

DRAWN : V.J.F.
REVIEWED: V.J.F.
CHECKED : V.J.F.

DATE : 7-12-05

ISSUE/REVISIONS

1	7/29	ADDENDA #1

SHEET TITLE
ELECTRIC DETAILS, and NOTES

SHEET NUMBER
E-1.03

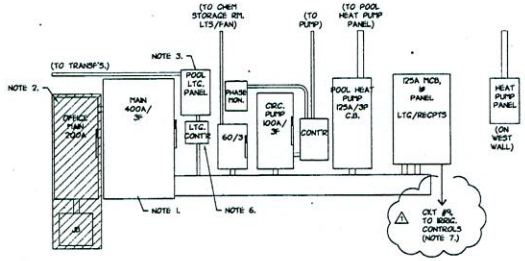
TYPE EXISTING
SERVICE 120/240V, ø
MOUNTING SURF.
POLE 20

PANEL "125"
(EXISTING PANEL – SHOWN FOR REFERENCE)

MAIN BUS 125 AMP
NEUTRAL FULL
MAIN 125A MCB

BKR	COND.	WIRE	REMARKS	CKT #	VA A	VA B	CKT #	REMARKS	WIRE	COND.	BKR
125/2	X	X	MAIN	1	–		2	N.W. QUARTZ	X	X	20/1
				3		–	4	EXHAUST FAN	X	X	20/1
20/1	X	X	POOL DECK OUTLET	5	–		6	OUTLET CL PUMP	X	X	20/1
20/1	X	X	FILTER ROOM LIGHTS	7		–	8	CL ROOM FAN	X	X	20/1
20/1	1/2"	#12	IRRIG.	9	–		10	SPARE	–	–	20/1
30/2	X	X	POOL LIGHTING PANEL	11		–	12	JOGGING	X	X	20/1
				13	–		14	SPARE	–	–	20/1
20/1	X	X	DECK GFCI RECEPT.	15		–	16	SPARE	–	–	20/1
20/1	–	–	SPARE	17	–		18	SPACE			
			SPACE	19		–	20	SPACE			

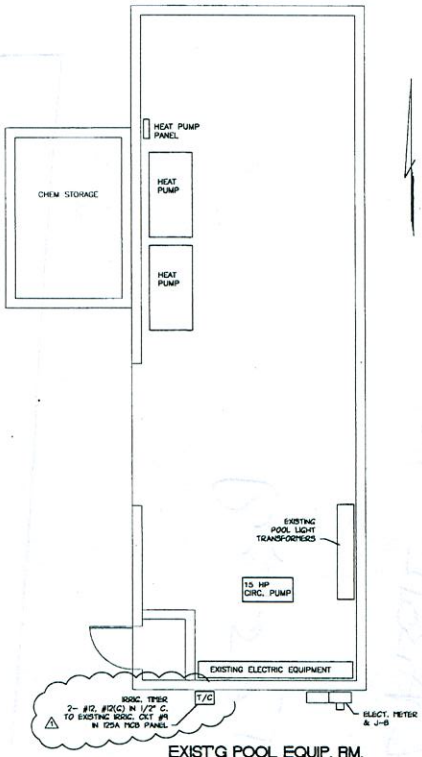
('X' – EXISTING)



EXISTING POOL BUILDING ELECTRICAL RISER
(N.T.S.)

ELECTRICAL NOTES:

1. EXISTING SERVICE TO REMAIN TO SERVE EXISTING POOL EQUIPMENT BUILDING.
2. DISCONNECT "OFFICE MAIN" AND FEEDER AT SOURCE. REMOVE & DISPOSE OF EQUIPMENT. "BLANK OFF" ANY UNUSED OPENINGS.
3. EXISTING POOL TO REMAIN. CONCRETE POOL DECK TO BE REPLACED. REPLACE IN-POOL LIGHTING AND WIRING TO TRANSFORMERS IF NECESSARY.
4. EXISTING WELL PUMP TO BE RELOCATED; RELOCATE FEED.
5. RELOCATE OR ADJUST EXISTING LIGHT POLES AS INDICATED. MAINTAIN EXISTING UG WIRING AND CIRCUITS.
6. RUN CONTROL CKT. FROM NEW LTG. CONTROLS TO OPERATE EXISTING IN-POOL LIGHTS WITH EXISTING CONTACTOR.
7. CONNECT NEW IRRIG. TIMER TO EXISTING SPRINKLER CONTROL CIRCUIT.



EXIST'G POOL EQUIP. RM.
SCALE: 1/4" = 1'-0"

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SHEET TITLE
EXISTING POOL BLDG. ELECTRIC

SHEET NUMBER
E-2.01