

YOGA STORAGE ROOM										3 PHASE, 4 WIRE		
PANEL: P										SURFACE MOUNTED		
LOAD PER PHASE										NEMA 1		
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	B	C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
TC,GR	1	12	20	1	0.5	2.0		2				
TC,GR	1	12	20	3	0.5	2.0		4				
LTS: POOL	1	12	20	5			1.0	2.0	6		30	POOL PUMP 1 #6
UH-1	1	12	20	7	0.4	0		8				SHUNT TRIP #5
REC: POOL RM, EMG PHONE	1	12	20	9		1.7	2.0	10				
EXHAUST FAN	1	12	20	11		0.5	2.0	12			30	POOL PUMP 2 #6
LTS: POOL, BATHRMS, MAIL	1	12	20	13	0	2.0		14				
SPACE	1	-	-	15	0	0		16				SHUNT TRIP #5
SPACE	1	-	-	17		0	2.0	18			30	POOL PUMP 3 #6
SPACE	1	-	-	19	0	2.0		20				
SPACE	1	-	-	21	0	2.0		22				
SPACE	1	-	-	23		0	0	24				SHUNT TRIP #5
SPACE	1	-	-	25	0	0		26	-	-	1	SPACE
SPACE	1	-	-	27		0	0	28	-	-	1	SPACE
SPACE	1	-	-	29		0	0	30	-	-	1	SPACE
SPACE	1	-	-	31	0	0		32	-	-	1	SPACE
SPACE	1	-	-	33		0	0	34	-	-	1	SPACE
SPACE	1	-	-	35		0	0	36	-	-	1	SPACE
SPACE	1	-	-	37	0	0		38	-	-	1	SPACE
SPACE	1	-	-	39	0	0		40	-	-	1	SPACE
SPACE	1	-	-	41		0	0	42	-	-	1	SPACE
TOTAL CONNECTED KVA:					6.9	8.2	7.5	DEMAND KVA: 26.3				
PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS: 72.9				

- PANEL SHALL BE EQUAL TO SQUARE D NQ.
- PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
- TC - CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK, AUTO-DAWN FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND BATTERY BACK-UP. LOCATE AT PANEL.
- POOL PUMP SHUNT TRIP TO BE WIRED TO EMERGENCY STOP SWITCH. SEE PLAN FOR LOCATION. POWER SHUNT TRIP VIA CIRCUIT P-11.
- VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
- LO - INDICATES LOCK-ON ATTACHMENT REQUIRED

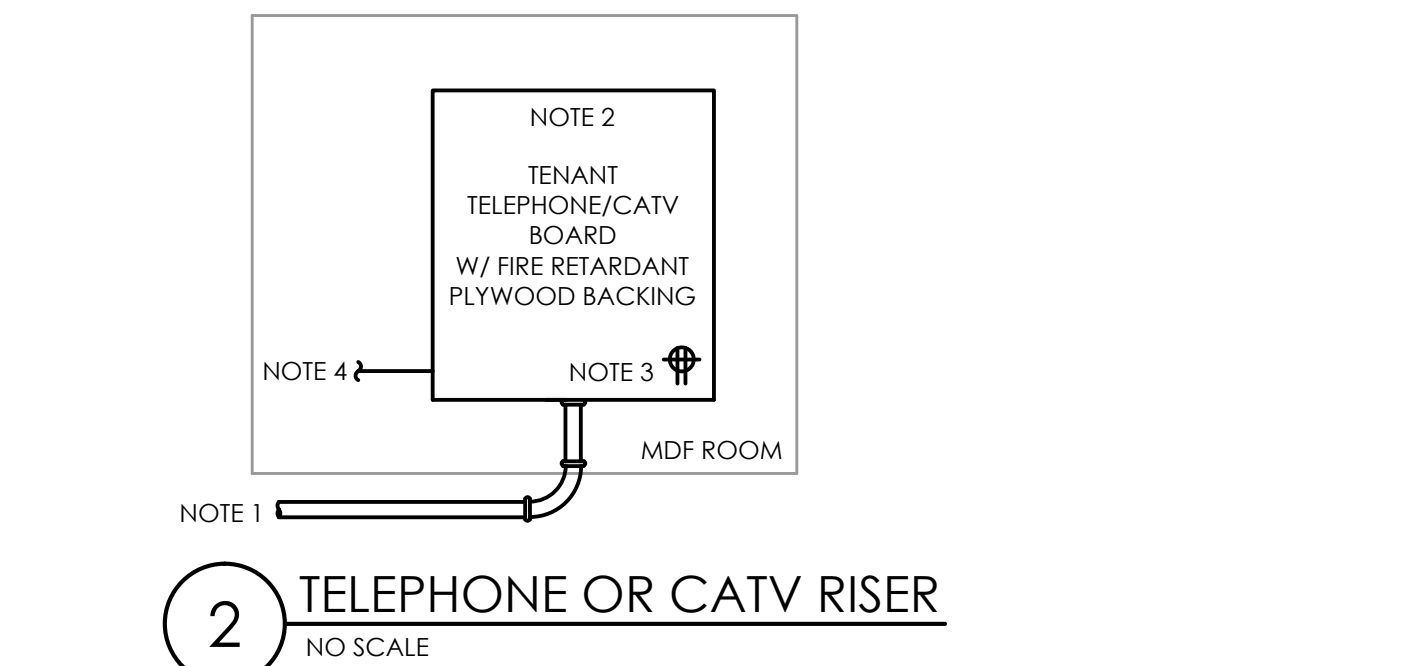
PANEL P LOAD SUMMARY				
LOAD TYPE		KVA CONN.	DEM. FACT.	KVA DEM.
LOADS ON 100 AMP BREAKER @ PANEL F				
LIGHTS (1409 SQFT @ 2 W/SQFT > CONN. LOAD)		2.8	1.25	3.5
RECEPTACLES	1st 10 KVA	0.4	1.0	0.4
	REMAINDER	0.0	0.5	0.0
HVAC & R	ELEC HEAT	1.0	1.0	1.0
	LARGEST MOTOR	0.0	1.25	0.0
	REMAINDER	0.0	1.0	0.0
POOL PUMPS		18.0	1.0	18.0
POOL LIGHTS, EXHAUST FAN		2.7	1.25	3.4
TOTALS		24.9		26.3
TOTAL AMPS @ 208 V 3 PHASE		72.9		

NOTE:  
E.C. TO VERIFY EXACT  
POOL EQUIPMENT  
REQUIREMENTS WITH  
EQUIPMENT SUPPLIER  
BEFORE BEGINNING  
WORK.

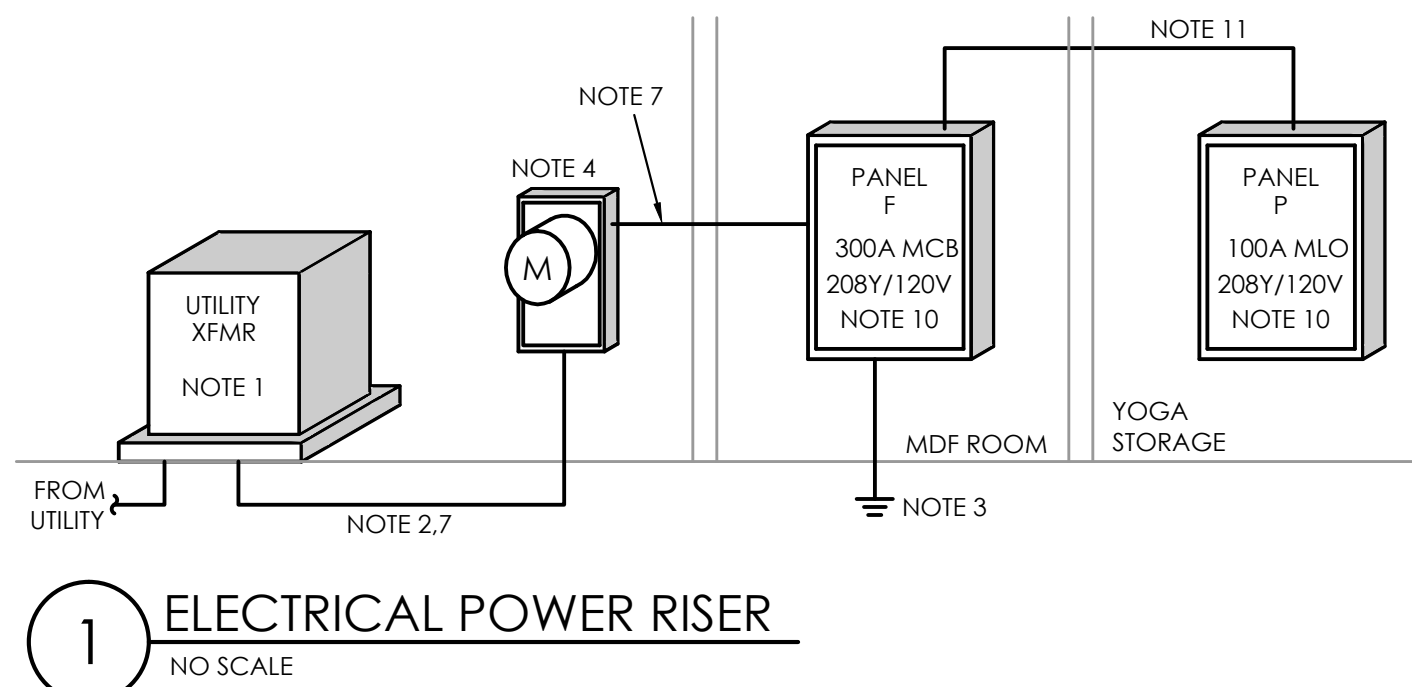
MDF ROOM										3 PHASE, 4 WIRE		
PANEL: F										SURFACE MOUNTED		
LOAD PER PHASE										NEMA 1		
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	B	C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
SPACE	1	-	-	1	0	3.2		2				
LTS: FITNESS, YOGA	1	12	20	3		0.7	3.3		4	35	10	3
LTS: EXTERIOR	1	12	20	5			0.3	3.3	6			
SPARE	1	-	-	7	0	3.1		8				
REC: BATHRMS, HALLWAY	1	12	20	9		1.0	3.0	10		50	6	3
REC: MAIL, HALLWAY	1	12	20	11			1.0	3.1	12			
REC: YOGA, EXTERIOR	1	12	20	13	1.2	2.1		14		25	10	2
REC: YOGA, FITNESS, EXT.	1	12	20	15		1.4	2.1	16				
REC: FITNESS, EXTERIOR	1	12	20	17			1.0	1.1	18	25	10	2
TELE/DATA BOARD 1	1	12	20	19	0.4	1.2		20				
ELECTRIC WATER COOLER	1	12	20	21		0.5	2.2	22		30	10	2
FITNESS EQUIPMENT 1	1	12	20	23			1.0	2.3	24			
FITNESS EQUIPMENT 2	1	12	20	25	1.0	0.2		26	20	12	1	AMAZON PARCEL BOXES
FITNESS EQUIPMENT 3	1	12	20	27		1.0	0.4	28	20	12	1	TELE/DATA BOARD 2
FITNESS ROLL UP DOOR 1	1	12	20	29			1.0	0.4	30	20	12	1
FITNESS ROLL UP DOOR 2	1	12	20	31	1.0	0.4		32	20	12	1	ACCESS CONTROL EQUIP
FITNESS ROLL UP DOOR 3	1	12	20	33			1.0	0.4	34	20	12	1
LTS/REC: ATTIC	1	12	20	35			0.5	0.4	36	20	12	1
PANEL P	3	1	100	37	6.9	0.6		38	20	12	1	SECURITY EQUIP, QUAD 1
				39		8.2	0	40	-	-	1	SECURITY EQUIP, QUAD 1
				41			7.5	0	42	-	-	1
TOTAL CONNECTED KVA:					21.3	25.2	22.9	DEMAND KVA: 78.2				
PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS: 217.1				

- PANEL SHALL BE SERVICE ENTRANCE RATED EQUAL TO SQUARE D NQ.
- PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
- PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.

PANEL F LOAD SUMMARY				
LOAD TYPE		KVA CONN.	DEM. FACT.	KVA DEM.
LOADS ON 300 AMP MCB				
LIGHTS (3230 SQFT @ 2 W/SQFT > CONN. LOAD)		6.5	1.25	8.1
RECEPTACLES	1st 10 KVA	6.4	1.0	6.4
	REMAINDER	0.0	0.5	0.0
HVAC & R	ELEC HEAT	11.8	1.0	11.8
	LARGEST MOTOR	9.2	1.25	11.5
	REMAINDER	4.5	1.0	4.5
WATER HEATER (ELECTRIC)		4.5	1.25	5.6
POOL PUMPS, FITNESS EQUIPMENT, WATER COOLER, TELE/DATA BOARD, ROLL UP DOORS, ACCESS CONTROL, A/V EQUIP, SECURITY EQUIP.		26.9	1.0	26.9
POOL LIGHTS, EXHAUST FAN, CEILING FANS		2.7	1.25	3.4
TOTALS		72.5		78.2
TOTAL AMPS @ 208 V 3 PHASE		217.1		



- NOTES:
- PROVIDE (1) 3" CONDUIT FROM UTILITY DEMARC POINT(S) W/ PULL STRING. CLEARLY LABEL AND COORDINATE EXACT TERMINATION LOCATION AND DETAILS WITH OWNER AND UTILITY.
  - 3/4" FINISH GRADE PLYWOOD BACKBOARD PAINTED WITH FLAME RETARDANT PAINT. COORDINATE SIZE & EXACT LOCATION W/ OWNER.
  - SEE POWER PLANS AND LOW VOLTAGE DRAWINGS FOR EXACT POWER REQUIREMENTS.
  - PROVIDE #6 CU GROUNDING/BONDING CONDUCTOR IN 3/4" CONDUIT TO INTERSYSTEM BONDING TERMINATION (IBT) AT BUILDING ELECTRICAL SERVICE. BOND CONDUIT/CONDUCTOR AT EACH END OF CONDUIT IF METAL RACEWAY IS USED. INSTALL PER NEC 250.94 & NEC 800.100. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.



1. RISER DIAGRAM NOTES:
- PAD MOUNTED TRANSFORMER BY UTILITY.
  - SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK. IF RUN LENGTH EXCEEDS 150', CONTACT ENGINEER PRIOR TO PURCHASING MATERIAL OR BEGINNING WORK.
  - #2 CU OR #1/0 AL MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
  - 400A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
  - NOT USED.
  - NOT USED.
  - (4)500 kcmil AL, 3" CONDUIT.
  - PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
  - PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.14)
  - UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.
  - (4) #1 CU, #8 CU GND, 1-1/2" CONDUIT.



**PLANWORX**  
ARCHITECTURE

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Oasis at Surfside - Phase II

Zimmer Development Company

Cape Coral, Florida

PERMIT SET



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PLUMBING MECHANICAL ELECTRICAL

PROGRESS DATE: 11/17/21

ISSUE DATE: 11/17/21

CHECKED BY: ZLT

DRAWN BY: NLLV

PROJECT NO: 002221

SHEET TITLE: FITNESS RISER & PANEL SCHEDULE

SHEET NUMBER:

E2.12