

MEP COORDINATION

DISCIPLINES	NAME	DATE	SIGNATURE
ME - HVAC	ATEF ZEN		
ME - PLUM	ATEF ZEN		
EE	SAMI HAMZI		

NOTES :

- THE COMPLETE ELECTRICAL SERVICES INSTALLATION WILL COMPLY FULLY WITH THE LATEST REQUIREMENTS AND REGULATIONS OF QGDC (KAHRAMA) AND BS7671 REGULATIONS AND RELEVANT BRITISH STANDARDS INSTITUTIONS CODES OF PRACTICE.
- THIS DRAWING WILL BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS, THE ELECTRICAL SERVICE SPECIFICATION, CIVIL/STRUCTURAL ENGINEERING & ARCHITECTURAL SPECIFICATION, DRAWINGS AND ALL OTHER RELEVANT DOCUMENTATION ISSUED UNDER THIS CONTRACT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL POSITIONING AND CO-ORDINATION OF ALL SERVICES WITH THE STRUCTURE. THE POSITIONING OF ELECTRICAL SERVICES PLANT/EQUIPMENT FITTING AND FIXTURES WILL BE SUBJECT TO SITE APPROVAL BY THE ENGINEER.
- EXACT LOCATIONS OF ALL MECHANICAL EQUIP., ISOLATING SWITCHES AND OUTLETS FOR EQUIPMENT WILL BE COORDINATED WITH THE MECHANICAL WORKING DRAWING.
- ALL OUTDOOR SWITCHES, BOXES & FITTINGS WILL BE WEATHER PROOF.
- FINAL CIRCUITS WITHIN THE BUILDING WILL BE WIRED WITH PVC WIRES EMBEDDED IN CONCRETE USING OR CONCEALED IN CEILING VOID. EXPOSED CONDUITS WILL BE RIGID GALVANIZED STEEL AND WILL BE USED IN MECHANICAL AND ELECTRICAL PLANT ROOMS.
- MINIMUM SIZE OF GALVANIZED STEEL AND PVC CONDUIT WILL BE 20mm DIAMETER.
- UNLESS OTHERWISE INDICATED ALL LIGHTING CIRCUITS WILL BE 3x2.5mm² PVC INSULATED MINIMUM IN 20mm PVC CONDUITS.
- ALL CONDUITS EMBEDDED IN CONCRETE OR CONCEALED IN CEILING SLAB WILL BE IN PVC CONDUITS.
- ALL CONDUITS RUN EXPOSED WILL BE IN RIGID STEEL CONDUIT.
- SPACING BETWEEN WALL OUTLET WILL BE 50mm APART FROM EDGE OF BOX.
- LIGHT FITTINGS WITH SUFFIX 'X' ALL LAMP WILL BE CONNECTED TO CENTRAL BATTERY SYSTEM.
- LIGHT FITTINGS WITH SUFFIX 'S' ONE LAMP WILL BE CONNECTED TO CENTRAL BATTERY SYSTEM.
- LIGHT FITTINGS WITH SUFFIX 'W' WILL BE WEATHERPROOF PIPE. FOR REFERENCE DRAWING LIGHTING LAYOUT REFER TO DRAWING NO. EU.301A
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE INDICATED IN THE DRAWING.

LEGEND :

	DISTRIBUTION BOARD (D.B.) AT 1800 mm FROM TOP OF PANEL TO A.F.F.L.
	APARTMENT TELECOMMUNICATION BOX
	HOME AUTOMATION CONTROL PANEL AT 1800mm FROM TOP OF PANEL TO A.F.F.L.
	EMBEDDED PVC PIPE AT LEVEL 1 FLOOR SLAB - SIZES AS SHOWN
	EMBEDDED PVC PIPE AT LEVEL 1 CEILING SLAB - SIZES AS SHOWN
	ADJUSTABLE DOWNLIGHT
	ADJUSTABLE DOWNLIGHT(MOISTURE PROOF)
	RECESSED LENSED SHOWER LIGHT
	UNDER CABINET LIGHTS
	SURFACE LIGHT
	TYPICAL UNIT CEILING FAN
	TYPICAL UNIT EXTERIOR WALL SCONCE
	CONTEMPORARY / TRADITIONAL UNIT CEILING FIXTURE
	CONTEMPORARY / TRADITIONAL UNIT PENDANT FIXTURE
	CONTEMPORARY / TRADITIONAL UNIT WALL SCONCE
	COVE FIXTURE (CLICKSTRIP)
	FAN REGULATOR AND SWITCH
	ONE WAY, ONE GANG, SINGLE POLE LIGHTING SWITCHES
	TWO WAY, ONE GANG, SINGLE POLE LIGHTING SWITCHES

ABBREVIATION:

MDB	MAIN DISTRIBUTION BOARD
DB	DISTRIBUTION BOARD
P. CABLE	CU/PVC CABLE IN CONDUIT
PVC	POLY VINYL CHLORIDE
mm ²	SQUARE MILLIMETER
mmφ	MILLIMETER OF DIAMETER
CP	CONTROL PANEL

D	21-11-2006	C.MANCINI	SAMI HAMZI	ATEF ZEN	FIRST ISSUE FOR APPROVAL
REV	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DESCRIPTION

EMPLOYER :

United Development Company
 P.O. Box 7258
 Doha, Qatar
 T 974 4336 1542
 F 974 435 5219

FOR ENGINEERS STAMP :

PROJECT MANAGEMENT & CONSULTANTS (PMC):

dar al-handasah shaair and partners
 DOHA - BEIRUT - CAIRO - LONDON

MAIN CONTRACTOR :

ACC
 CONTRACTOR:
 Qatar Arab Construction Co.
 P.O. Box 24001
 Doha, Qatar
 T 974 442 7316
 F 974 442 7310

SUB CONTRACTOR :

QATAR TECHNICAL SUPPORT
 ELECTRO - MECHANICAL ENGINEERING
 P.O. BOX 23508 DOHA QATAR TEL: 4806011- FAX:680648

PROJECT NAME :

THE PEARL
 THE PEARL - QATAR
 PARCELS P1-04 & P1-05

PARCEL-04
TOWER - TYPICAL LEVEL 4 TO 11 - UNIT 301 - TYPE I

SIZE	DATE	ORG	TRADE	LOC / BUILDING	FLOOR / LEVEL	SERIAL NUMBER	REV							
201	21-11-2006	O	S	C	B	T	A	L	411	0	3	2	0	0

Distribution Board DB 301A

LOCATION
Apartment - Tower

CONTROLLED BY : 12WAY TPN 100A TP ON LOAD ISOLATOR

CKT. No.	PH	MCB (A)	WIRE SIZE (mm ²)	LOAD DESCRIPTION	CONTROLLED BY	LOAD (WATTS)			
						R	Y	B	
1	R	10	3x2.5	LIGHTS (DIMMER) 2*10+3*50+1*60+2*100	SWs	430			
	Y	10	3x2.5	LIGHTS (DIMMER) 6*50	IS4		300		
	B	10	3x2.5	LIGHTS (DIMMER) 1*18+4*50	IS3			218	
2	R	10	3x2.5	LIGHTS (ON/OFF) 5*50+2*60	IS1	370			
	Y	10	3x2.5	LIGHTS (ON/OFF) 6*50+1*300	IS5		600		
	B	10	3x2.5	LIGHTS 2*10+2*50+2*100	SWs			320	
3	R	10	3x2.5	LIGHTS 2*10+2*18+6*50+2*100	SWs	456			
	Y	10	3x2.5	LIGHTS 1*18+7*20+10*50+1*60+1*100	SWs		818		
	B	10	3x2.5	LIGHTS 2*60+1*100	SWs			220	
4	R	10	3x2.5	LIGHTS 1*18+2*60+1*100	SWs	238			
	Y	10	3x2.5	LIGHTS 2*60+1*100	SWs		220		
	B	10	3x2.5	LIGHTS 1*18+4*50	IS2			218	
5	R	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 2*2*100+3*1*100	SW. COMB	700			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 2*2*100+3*1*100	SW. COMB		700		
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 2*2*100+2*1*100	SW. COMB			600	
6	R	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 2*2*100+2*1*100	SW. COMB	600			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 3*2*100	SW. COMB		600		
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 3*2*100	SW. COMB			600	
7	R	20*	3x4	CONNECTION UNITS FOR DFCU 3*250+1*500+1*750	DP SW	2000			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 1*1*100	SWs		100		
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 1*1*100	SWs			100	
8	R	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET 2*1*100	SWs	200			
	Y	40*	2x16 + 1x6	COOKER CONTROL UNIT 1*5000	CCU			5000	
	B	15*	3x2.5	13A SW SOCKET OUTLET (MICROWAVE) 1*1000	SW. COMB			1000	
9	R	15*	3x2.5	20A JB + DPSW FOR WASHER 1*1000	DP SW	1000			
	Y	15*	3x2.5	13A SW SOCKET OUTLET (WALL OVEN) 1*1500	SW. COMB		1500		
	B	15*	3x2.5	13A SW SOCKET OUTLET (DISH WASHER) 1*750	SW. COMB			750	
10	R	15*	3x2.5	20A JB + DPSW FOR DRYER 1*1000	DP SW	1000			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET (REF. GPO+M.DAMPER) 1*500+1*1*100+1*2*100	SW. COMB		800		
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET (KITCHEN HOOD+GPO) 1*2*100+1*1*250	SW. COMB			450	
11	R	30*	4x10 + 1x6	30A TPN ISOLATOR FOR EW HEATER 1*6000	ISOL	2000	2000	2000	
	Y	10	-	SPARE					
	B	10	-	SPARE					
TOTAL CONNECTED LOAD (kW) - SUMMER						28.108	8994	12638	6476
TOTAL CONNECTED LOAD (kW) - WINTER						28.108	8994	12638	6476

*DENOTES MCB/ELCB COMBINED UNIT. ELCB SENSITIVITY - 30mA

