

renovation and rehabilitation
of basma center
al tur. jerusalem

Electrical Legend

SYMBOL	DESCRIPTION	
	POWER SOCKETS	H= (cm) a.f.f.
	16A 3 PIN SOCKET OUTLET / W.P.	
	16A 3 PIN SOCKET OUTLET CEILING MOUNTED	
	16A 3 PIN TWIN SOCKET OUTLET / W.P.	
	16A 3 PIN TRIPLE SOCKET OUTLET	
	SINGLE PHASE (2POLE) ISOLATOR, Rate As Indicated	220
	THREE PHASE (4POLE) ISOLATOR, Rate As Indicated	220
	DOUBLE POLE SWITCH WITH INDICATOR LAMP / W.P.	160
	JUNCTION BOX	220
	EMERGENCY TRIP PUSH BUTTON	160
	THERMOSTATE	150
	UP-DOWN SWITCH FOR SHUTTERS	130
	SHUTTER MOTOR	220
	Erathing socket	
	Isolation monitor	
	Warning Unit	
	Bed Head Unit Electrical Connection Box	
	Double socket - Double socket with LED	
	Double UPS socket - Double socket UPS with LED	

SYMBOL	DESCRIPTION	
	SOUND SYSTEM	H= (cm) a.f.f.
	6WATT RECESSED LOUD SPEAKER	CEILING
	6WATT SURFACE MOUNT LOUD SPEAKER	220
	25W WALL MOUNTED ADJUSTABLE HORN	220
	END OF THE LINE	CEILING
	VOLUME CONTROL	150
	16 BUTTON CALL STATION	Table
	PUBLIC ADDRESS AND VOICE ALARM RACK	180

CONDUIT COLORS & WIRING DETAILS			
DESC.	Color	CONDUIT Size	Cable / Wires
COMPUTER	Yellow	1ø16 CONDUIT	CAT6 SHIELDED CABLE
POWER	Green	1ø16 CONDUIT	3x2.5 mm2 wires or XLPE Cable
UPS	Green	1ø16 CONDUIT	3x2.5 mm2 wires or XLPE Cable
TELEPHONE	Brown	1ø16 CONDUIT	CAT5 SHIELDED CABLE
LIGHTING	Blue	1ø16 CONDUIT	3x1.5 mm2 wires or XLPE Cable
FIRE	Red	1ø16 CONDUIT	4x0.8 mm2 FIRE CABLE(RED)
CAMERA, Access Control	White	1ø16 CONDUIT	CAT6 SHIELDED CABLE
TV,/Sat.	White	1ø16 CONDUIT	RG 59
Public Address Speakers	White	1ø16 CONDUIT	2x1 mm2 multicore speaker cable
Burglar Alarm	White	1ø16 CONDUIT	2 pair telephone cable
**All Conduits used shall be fire rated "Self Extinguishing"			

SYMBOL	DESCRIPTION	
	LIGHTING FIXTURE & SWITCHES	H= (cm) a.f.f.
	Inspection light - as Glamox Carelight PLT 18 watt	cl.
	20 watt COB led down light 12 V	
	12W, LED Down light, slim design opal cover cool white, for Bathrooms (IP44)	
	18 watt surface mount LED light for staircase/wall mount	
	LED EXIT Sign similar to Thorn VOYAGER LED	
	2x28 T5 HF Deep channel, polycarbonate IP65 luminaire with stainless steel gear tray and stainless steel fixing clips. As Thorn AquoForce II , for Parking, service areas	
	Recessed luminaire IP65/54 sealed with clear prismatic optics. Smooth white low profile anodised aluminium extruded frame with a 4mm toughened safety glass cover. 4x54W T5 linear fluorescent lamps with high frequency control gear. Self regulating breather. As Thorn Invincible 2.	
	Night Light 3 Watt LED with aluminum grill R2B 64230 for patient rooms	60
	60x60 cm LED panel as per Thorn Specline LED	
	3watt LED type emergency Lighting kit Fix. 90 min.- Electrozen or Eq.	
	1x36opal above mirror	
	12V 6 watt Cree LED spot lighting fixtures white oven painted aluminum	
	1x54 Watt T5 continuous lighting (Profile) with opal cover as Tulux for Corridors	
	SINGLE POLE ONE GANG SWITCH / W.P.	130
	SINGLE POLE TWO GANG SWITCH / W.P.	130
	SINGLE POLE THREE GANG SWITCH / W.P.	130
	SINGLE POLE FOUR GANG SWITCH / W.P.	130
	TWO WAY SWITCH / W.P.	130
	INTERMEDIATE SWITCH	130
	PUSH BUTTON	130

SYMBOL	DESCRIPTION	
	GROUNDING SYSTEM	H= (cm) a.f.f.
	Erathing socket	
	PA/PE	
	Erathing point	
	Bed Head Unit Electrical Connection Box	
	MAIN ELECTRIC BOARD L.V. SIDE	
	METAL ELECTRIC BOARD WITH LOW VOLTAGE SIDE	
	DISTRIBUTION BOARD	
	GENERATOR	
	CHECK BOX	

SYMBOL	DESCRIPTION	
	L.V. SOCKETS	
	TELEPHONE SOCKET OUTLET	x12
	T.V. SOCKET OUTLET	x12
	DATA SOCKET OUTLET	x18
	LOW VOLTAGE BOX	
	COMPUTER PATCH PANEL	
	INTERCOM	
	Wifi-Point	x5
	Data Cabinet	Panel
	RG 59 VIERING RJ 45 VIERING VGA VIERING	
	PROJECTOR	CEILING
	VGA	CEILING
	CCTV SYSTEM	
	INDOOR CAMERA: CEILING, MURAL	
	FIXED INDOOR COLORED CAMERA	
	DOME INDOOR COLORED CAMERA	x13
	FIXED OUTDOOR COLORED CAMERA DAY/NIGHT	x5
	SPLIT SCREEN MONITOR	
	CCTV CENTRAL MONITOR	
	ACCESS CONTROL SYSTEM	
	ACCESS CONTROL JUNCTION BOX	
	ACCESS CONTROL PANEL	180
	CARD READER	150
	ELECTRICAL LOCK	
	MAGNETIC LOCK	Door
	OPEN PUSH BUTTON	
	SUPERVISORY MAGNET	
	INTRUSION SYSTEM	
	DUAL TECH IR/MICROWAVE MOTION DETECTOR	220
	VIBRATION DETECTOR	200
	LEG PANIC BUTTON	Floor
	KEYPAD	150
	BURGLER ALARM CONTROL PANEL	180

SYMBOL	DESCRIPTION	
	THREE/SINGLE PHASE	
	MAIN ELECTRIC BOARD L.V. SIDE	
	METAL ELECTRIC BOARD WITH LOW VOLTAGE SIDE	
	DISTRIBUTION BOARD	
	GENERATOR	
	STEP RELAY	
	MOTORIZED AIR CIRCUIT BREAKER WITH TRIP RATING	
	CONTACTOR	
	INDICATOR LAMPS WITH PUSH BUTTON	
	GENERAL MULTIMETER	
	AMETER/VOLTMETR	
	TRANSFORMER	
	THREE/SIGLE PHASE FUSE	
	THREE/SIGLE PHASE EARTH LEAKAGE RELAY	
	THREE PHASE KWHM	
	SINGLE PHASE KWHM	
	4-POLE CHANGE OVER SWITCH MANUAL OR AUTO	
	CHECK BOX	
	60*60CM ELECTRICAL MANHOLE	
	60*60CM TELEPHONE MANHOLE	
SYMBOL	DESCRIPTION	
	FIRE ALARM SYSTEM	
	PHOTO SMOKE SENSOR	CEILING
	HEAT DETECTOR	CEILING
	BREAK GLASS	150
	INTERNAL SIREN	220
	CONTROL MODULE	CEILING
	EXTERNAL SIREN WITH FALSHER	220
	Beam Detector-Receiver	
	Beam Detector-Transmitter	
	DETECTOR INDICATION LAMP	CEILING
	PHOELECTRIC SMOKE DET. ABOVE FAULSECEILING	CEILING
	FIRE ALARM CONTROL PANEL	180
	REPEATER PANEL WITH CONTROL	150
	FIRE INDICATOR LAMP	CEILING

List of Drawings

E-00	Electrical Legend and List Of Drawings
E-01	Cable Tray System
E-02	Lighting System
E-03	Power Systems
E-04	LV Systems
E-05	Fire Alarm System
E-06	Public Address System
E-07	Electromechanical System
E-08	Grounding System
E-09	All Systems
E-10	DB-KG
E-11	Risers & BMS



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PROJECT:

Renovation & Rehabilitation
of Basma Center

Al Tur. Jerusalem

Designed by:

Arch. Ibrahim Younan
Arch. ISIAM HIJAZI

SHEET NAME:

Electrical Legend & List of Drawings

LEVEL:

BASEMENT FLOOR PLAN (Kindergarten)

SCALE:

1:100

ELECTRICAL WORKS

MIDHAT ALSHARIF
Electrical Engineer
Consulting Office

Email: mksld@yahoo.com Jerusalem, Beit Hanina
Tel. 02-584-9676, 072 261 7233

Design Team:
Eng. Wafa Ramoni

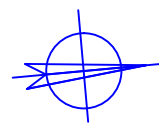
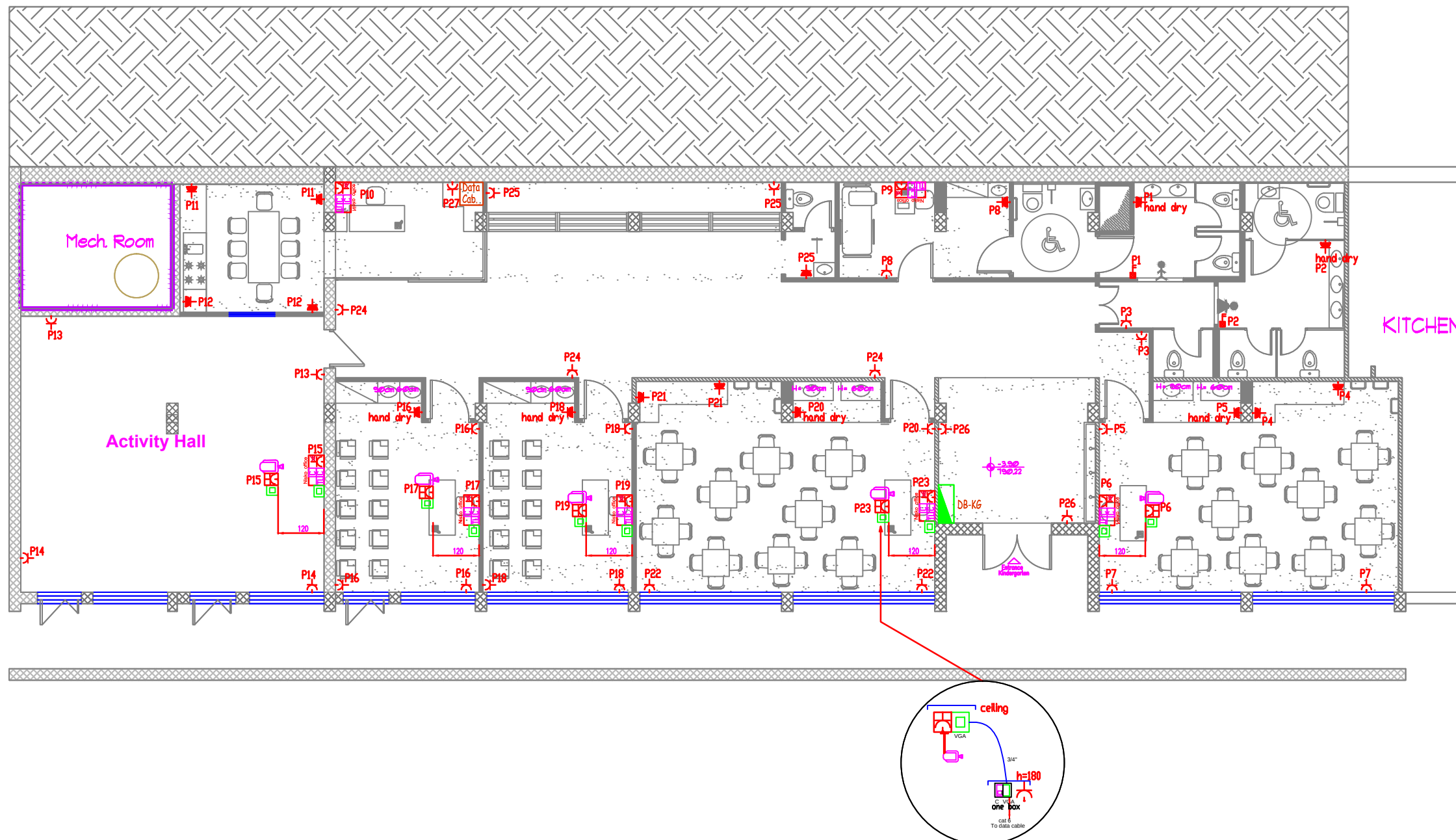
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Eng. Midhat Alsharif

SHEET NO.

E-00

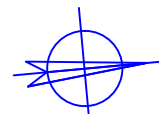
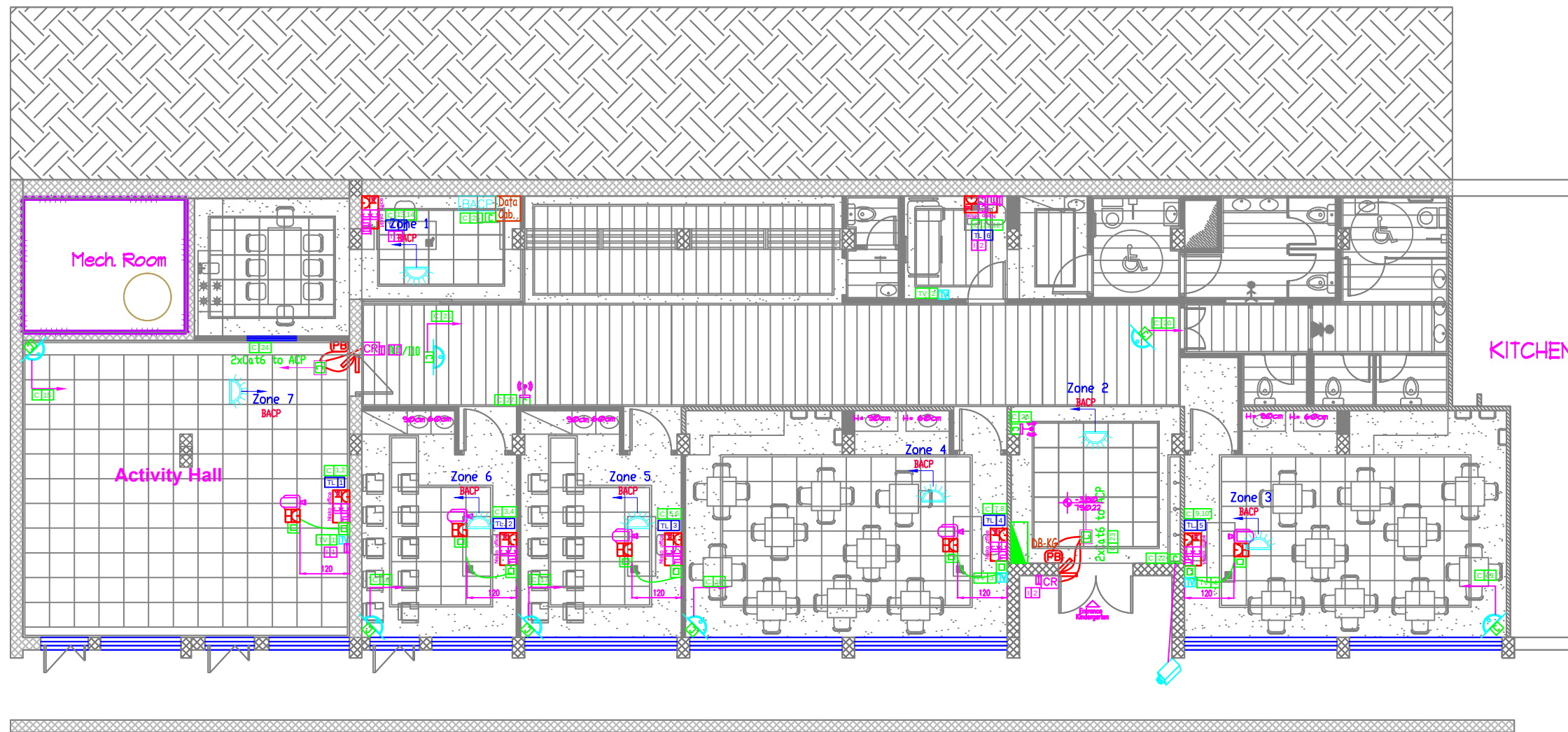
APRIL 2014

CONDUIT COLORS & WIRING DETAILS				SYMBOL	DESCRIPTION	
DESC.	Color	CONDUIT Size	Cable / Wires			
COMPUTER	Yellow	16/6 CONDUIT	CAT6 SHIELDED CABLE		POWER SOCKETS	
POWER	Green	16/6 CONDUIT	3x2.5 mm2 wires or XLPE Cable			H= (cm) a.f.f.
UPS	Green	16/6 CONDUIT	3x2.5 mm2 wires or XLPE Cable			
TELEPHONE	Brown	16/6 CONDUIT	CAT5 SHIELDED CABLE			
LIGHTING	Blue	16/6 CONDUIT	3x1.5 mm2 wires or XLPE Cable			
FIRE	Red	16/6 CONDUIT	4x0.8 mm2 FIRE CABLE(RED)			
CAMERA, Access Control	White	16/6 CONDUIT	CAT6 SHIELDED CABLE			
TV/Sat.	White	16/6 CONDUIT	RG 59			
Public Address Speakers	White	16/6 CONDUIT	2x1 mm2 multicore speaker cable			
Burglar Alarm	White	16/6 CONDUIT	2 pair telephone cable			
*All Conduits used shall be fire rated "Self Extinguishing"						
					SINGLE PHASE (2POLE) ISOLATOR, Rate As Indicated	220
					THREE PHASE (4POLE) ISOLATOR, Rate As Indicated	220
					DOUBLE POLE SWITCH WITH INDICATOR LAMP / W.P.	160
					JUNCTION BOX	220
					EMERGENCY TRIP PUSH BUTTON	160
					THERMOSTATE	150
					UP-DOWN SWITCH FOR SHUTTERS	130
					SHUTTER MOTOR	220
					Earthing socket	
					Isolation monitor	
					Warning Unit	
					Bed Head Unit Electrical Connection Box	
					Double socket - Double socket with LED	
					Double UPS socket - Double socket UPS with LED	



 CENTER FOR ADVANCED TECHNOLOGY AND DESIGN Jerusalem, Fedi Al Alami St., Beit Hanina, Tel. +972 2 656-8931, Fax. +972 2 656-1883 http://www.Catd.net E-Mail: catdmail@CATD.net	PROJECT: Renovation & Rehabilitation of Basma Center Al Tur, Jerusalem	Designed by: Arch. Ibrahim Younan Arch. ISIAM HIJAZI	SHEET NAME: Power Systems		ELECTRICAL WORKS MIDHAT ALSHARIF Electrical Engineer Consulting Office Email: mksld@yahoo.com Jerusalem, Beit Hanina Tel. 02-584-9676, 072 261 7233	Design Team: Eng. Vafa Ramoni Checked & Approved: Eng. Midhat Alsharif	SHEET NO. E-03 APRIL 2014
	LEVEL: BASEMENT FLOOR PLAN (Kindergarten)			SCALE: 1:100			

CONDUIT COLORS & WIRING DETAILS				SYMBOL	DESCRIPTION	
DESC.	Color	CONDUIT Size	Cable / Wires			
COMPUTER	Yellow	1616 CONDUIT	CAT6 SHIELDED CABLE		L.V. SOCKETS	
POWER	Green	1616 CONDUIT	3x2.5 mm2 wires or XLPE Cable		TELEPHONE SOCKET OUTLET	x12
UPS	Green	1616 CONDUIT	3x2.5 mm2 wires or XLPE Cable		T.V. SOCKET OUTLET	x12
TELEPHONE	Brown	1616 CONDUIT	CAT5 SHIELDED CABLE		DATA SOCKET OUTLET	x18
LIGHTING	Blue	1616 CONDUIT	3x1.5 mm2 wires or XLPE Cable		LOW VOLTAGE BOX	
FIRE	Red	1616 CONDUIT	4x0.8 mm2 FIRE CABLE(RED)		COMPUTER PATCH PANEL	
CAMERA, Access Control	White	1616 CONDUIT	CAT6 SHIELDED CABLE		INTERCOM	
TV/Sat.	White	1616 CONDUIT	RG 59		WiFi-Point	x5
Public Address Speakers	White	1616 CONDUIT	2x1 mm2 multicore speaker cable		Data Cabinet	Panel
Burglar Alarm	White	1616 CONDUIT	2 pair telephone cable		RG 59 WIERING RJ 45 WIERING VGA WIERING	
**All Conduits used shall be fire rated "Self Extinguishing"					PROJECTOR	CEILING
					VGA	CEILING
					CCTV SYSTEM	
					INDOOR CAMERA: CEILING, MURAL	
					FIXED INDOOR COLORED CAMERA	
					DOME INDOOR COLORED CAMERA	x13
					FIXED OUTDOOR COLORED CAMERA DAY/NIGHT	x5
					SPLIT SCREEN MONITOR	
					CCTV CENTRAL MONITOR	
					ACCESS CONTROL SYSTEM	
					ACCESS CONTROL JUNCTION BOX	
					ACCESS CONTROL PANEL	180
					CARD READER	150
					ELECTRICAL LOCK	
					MAGNETIC LOCK	Door
					OPEN PUSH BUTTON	
					SUPERVISORY MAGNET	
					INTRUSION SYSTEM	
					DUAL TECH IR/MICROWAVE MOTION DETECTOR	220
					VIBRATION DETECTOR	200
					LEG PANIC BUTTON	Floor
					KEYPAD	150
					BURGLAR ALARM CONTROL PANEL	180



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PROJECT:
**Renovation & Rehabilitation
of Basma Center**

Al Tur, Jerusalem

Designed by:
Arch. Ibrahim Younan
Arch. ISIAM HIJAZI

SHEET NAME:
LV Systems

LEVEL:
BASEMENT FLOOR PLAN (Kindergarten)

SCALE:
1:100

ELECTRICAL WORKS

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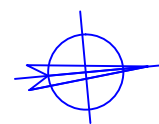
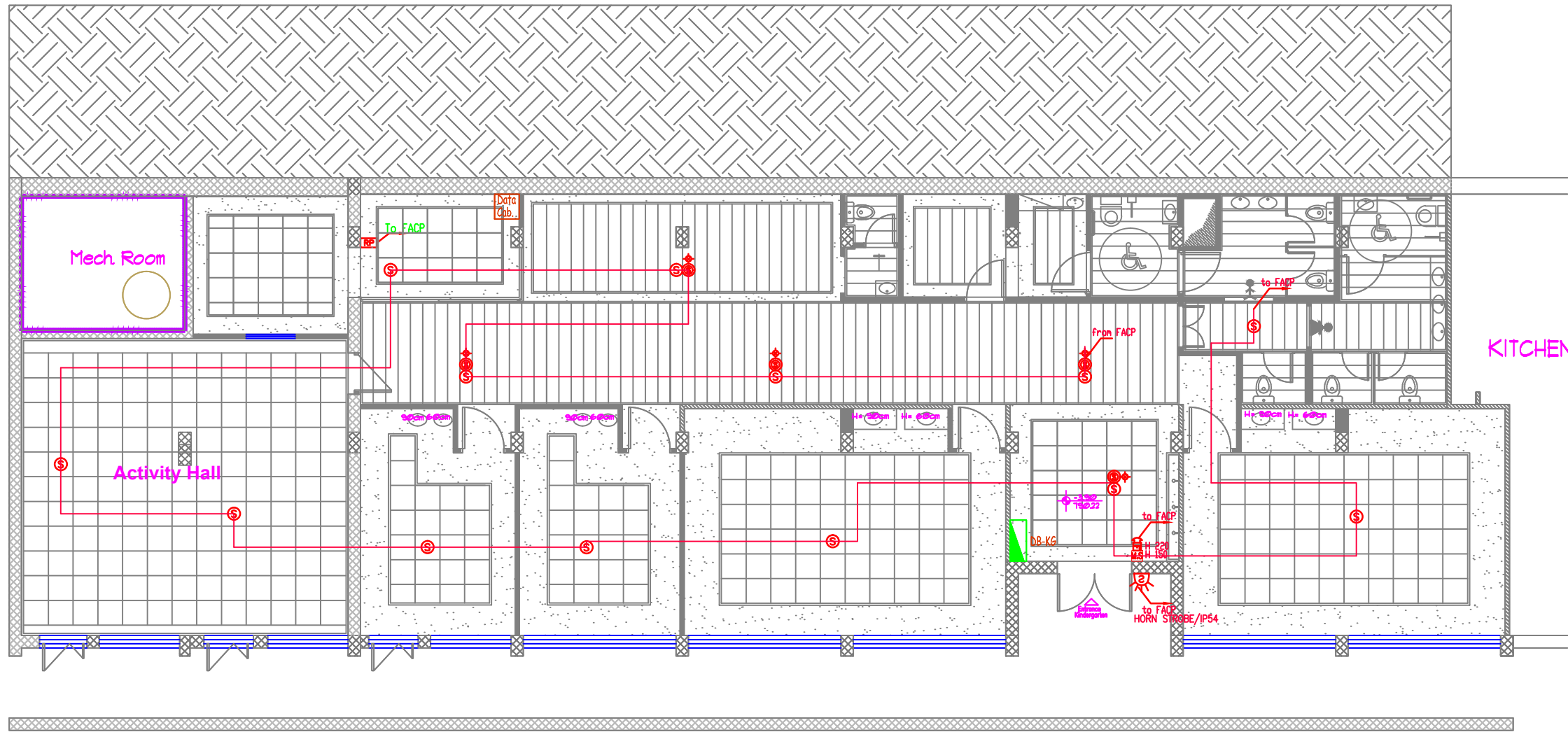
Design Team:
Eng. Wafa Ramoni

Checked & Approved
Eng. Midhat Alsharif

SHEET NO.
E-04

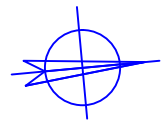
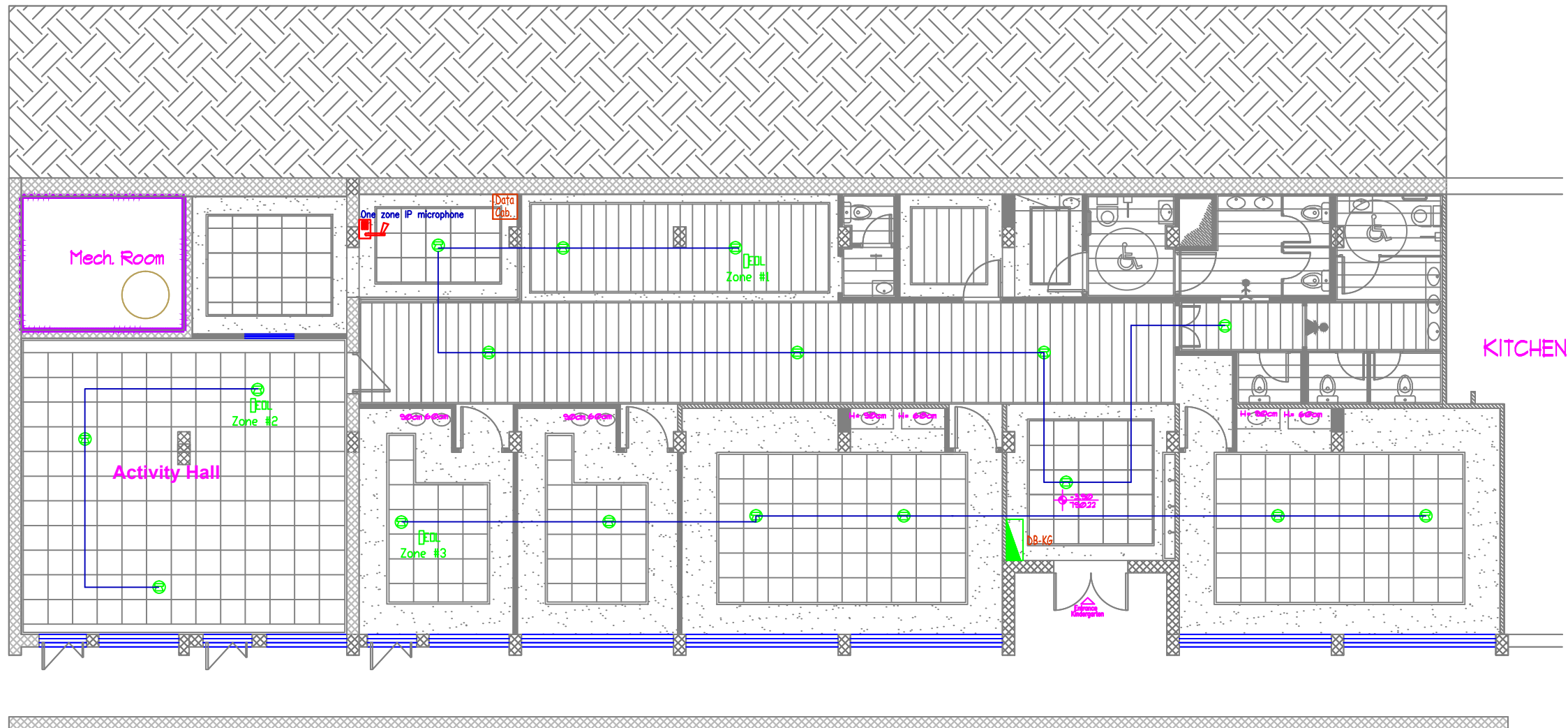
APRIL 2014

SYMBOL	DESCRIPTION		
	FIRE ALARM SYSTEM		
	PHOTO SMOKE SENSOR	CEILING	
	HEAT DETECTOR	CEILING	
	BREAK GLASS	150	
	INTERNAL SIREN	220	
	CONTROL MODULE	CEILING	
	EXTERNAL SIREN WITH FLASHER	220	
	Beam Detector-Receiver		
	Beam Detector-Transmitter		
	DETECTOR INDICATION LAMP	CEILING	
	PHOELECTRIC SMOKE DET. ABOVE FAULSCEILING	CEILING	
	FIRE ALARM CONTROL PANEL	180	
	REPEATER PANEL WITH CONTROL	150	
	FIRE INDICATOR LAMP	CEILING	
CONDUIT COLORS & WIRING DETAILS			
DESC.	Color	CONDUIT Size	Cable / Wires
COMPUTER	Yellow	1/16 CONDUIT	CAT6 SHIELDED CABLE
POWER	Green	1/16 CONDUIT	3x2.5 mm2 wires or XLPE Cable
UPS	Green	1/16 CONDUIT	3x2.5 mm2 wires or XLPE Cable
TELEPHONE	Brown	1/16 CONDUIT	CAT5 SHIELDED CABLE
LIGHTING	Blue	1/16 CONDUIT	3x1.5 mm2 wires or XLPE Cable
FIRE	Red	1/16 CONDUIT	4x0.8 mm2 FIRE CABLE(RED)
CAMERA, Access Control	White	1/16 CONDUIT	CAT6 SHIELDED CABLE
TV/Sat.	White	1/16 CONDUIT	RG 59
Public Address Speakers	White	1/16 CONDUIT	2x1 mm2 multicore speaker cable
Burglar Alarm	White	1/16 CONDUIT	2 pair telephone cable
**All Conduits used shall be fire rated "Self Extinguishing"			

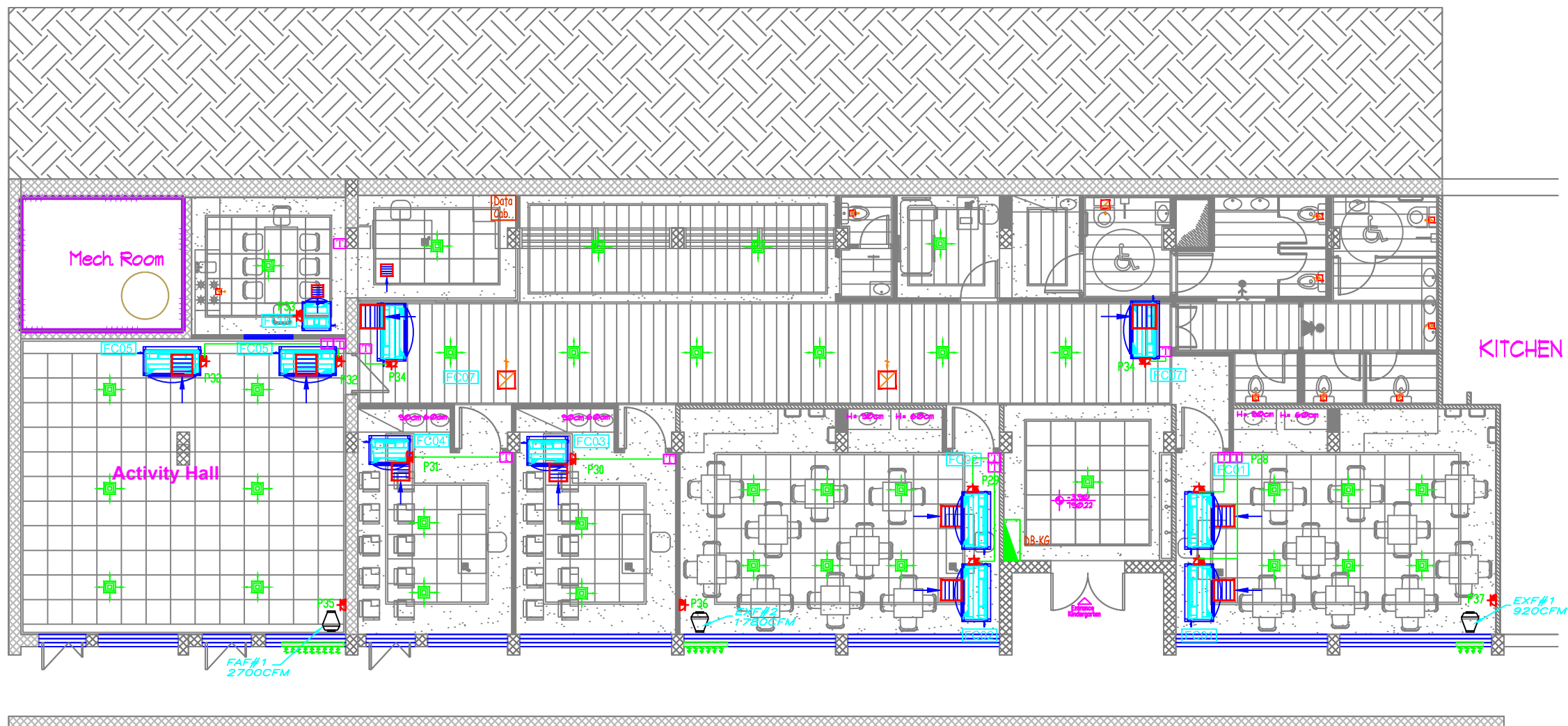


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				LEVEL: BASEMENT FLOOR PLAN (Kindergarten)	SCALE: 1:100		

CONDUIT COLORS & WIRING DETAILS				SYMBOL	DESCRIPTION	
DESC.	Color	CONDUIT Size	Cable / Wires			
COMPUTER	Yellow	1ø16 CONDUIT	CAT6 SHIELDED CABLE		SOUND SYSTEM	
POWER	Green	1ø16 CONDUIT	3x2.5 mm2 wires or XLPE Cable		H= (cm) a.f.f.	
UPS	Green	1ø16 CONDUIT	3x2.5 mm2 wires or XLPE Cable	⊕	6WATT RECESSED LOUD SPEAKER	CEILING
TELEPHONE	Brown	1ø16 CONDUIT	CAT5 SHIELDED CABLE	☎	6WATT SURFACE MOUNT LOUD SPEAKER	220
LIGHTING	Blue	1ø16 CONDUIT	3x1.5 mm2 wires or XLPE Cable	☎	25W WALL MOUNTED ADJUSTABLE HORN	220
FIRE	Red	1ø16 CONDUIT	4x0.8 mm2 FIRE CABLE(RED)	☎	END OF THE LINE	CEILING
CAMERA, Access Control	White	1ø16 CONDUIT	CAT6 SHIELDED CABLE	☎	VOLUME CONTROL	150
TV/Sat.	White	1ø16 CONDUIT	RG 59	☎	16 BUTTON CALL STATION	Table
Public Address Speakers	White	1ø16 CONDUIT	2x1 mm2 multicore speaker cable	☎	PUBLIC ADDRESS AND VOICE ALARM RACK	180
Burglar Alarm	White	1ø16 CONDUIT	2 pair telephone cable	☎		
*All Conduits used shall be fire rated "Self Extinguishing"						



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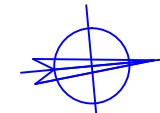
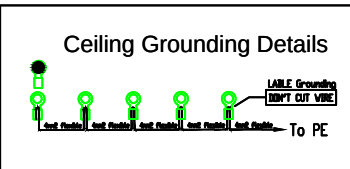
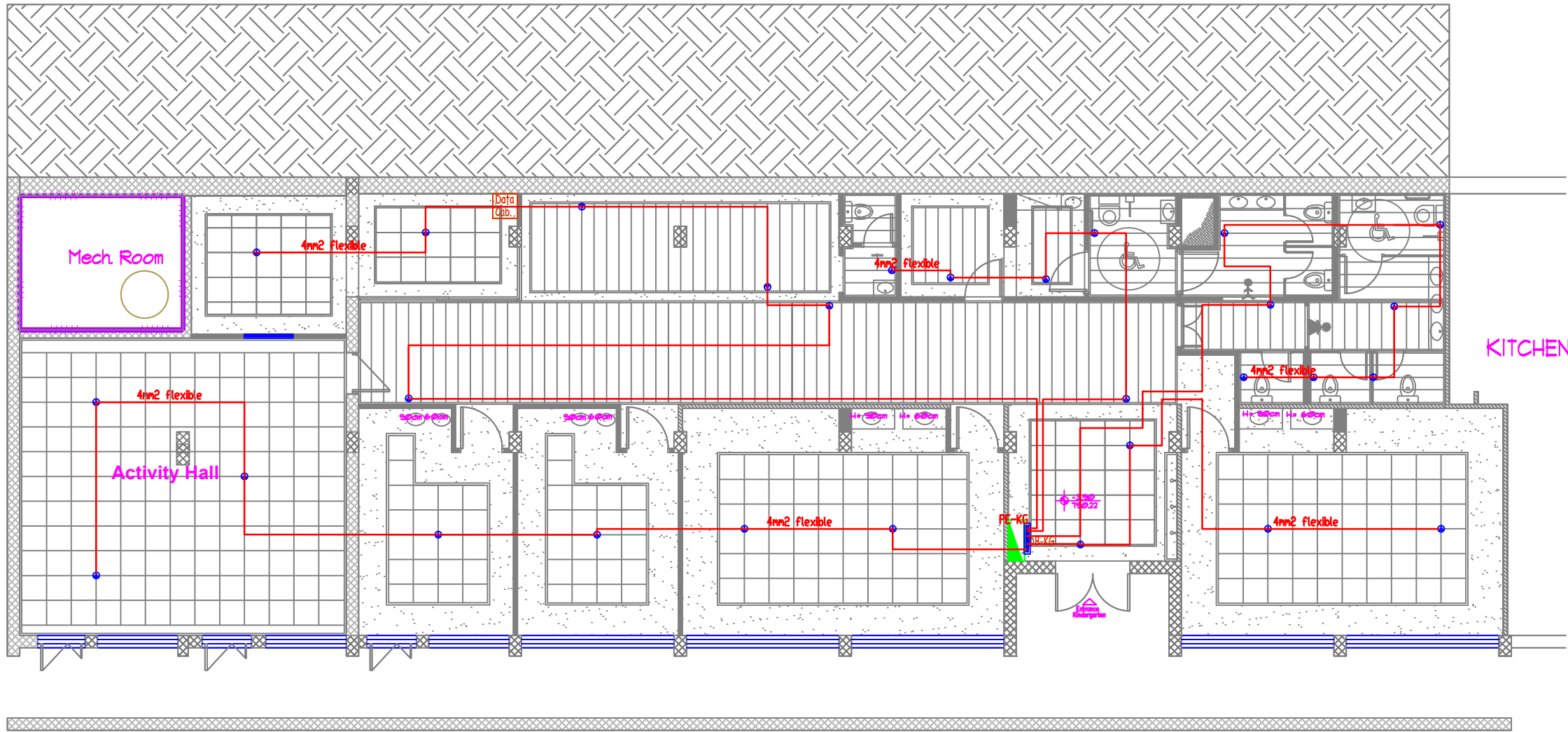
SYMBOL	DESCRIPTION	Qty (in each)
	POWER SOCKETS	
	10A 3 PIN SOCKET OUTLET / W/PL	
	15A 3 PIN SOCKET OUTLET CORDING RECEPT	
	15A 3 PIN SOCKET OUTLET / W/PL	
	15A 3 PIN TRIPLE SOCKET OUTLET	
	TRIPLE POWER (CPOUD) RECEPT, Rate In Included	220
	TRIPLE POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220
	PUSH POWER (CPOUD) RECEPT, Rate In Included	220

APP.	Color	CONDUIT Size	Cable / Wire
TRANSFORMER	Blue	1/2" EMT	CONDUIT SIZED CABLE
FEEDER	Blue	1/2" EMT	2x12 solid wire or 10/2 EMT Cable
SWITCH	Green	1/2" EMT	2x12 solid wire or 10/2 EMT Cable
RECEIVER	Blue	1/2" EMT	CONDUIT SIZED CABLE
GROUND	Blue	1/2" EMT	2x12 solid wire or 10/2 EMT Cable
PIPE	Red	1/2" EMT	4x4 solid FIRE CABLE(S)
CABLE, Access Control	White	1/2" EMT	CONDUIT SIZED CABLE
Tx/Rx	White	1/2" EMT	16 B
Public Address System	White	1/2" EMT	16 solid multiwire speaker cable
Security Alarm	White	1/2" EMT	12 pair telephone cable

*EMT Conduits must shell to be rated "UL Recognized"



SYMBOL	DESCRIPTION		
	GROUNDING SYSTEM	H= (cm) a.f.f.	
	Erathing socket		
	PA/PE		
	Erathing point		
	Bed Head Unit Electrical Connection Box		
	MAIN ELECTRIC BOARD L.V. SIDE		
	METAL ELECTRIC BOARD WITH LOW VOLTAGE SIDE		
	DISTRIBUTION BOARD		
	GENERATOR		
	CHECK BOX		
CONDUIT COLORS & WIRING DETAILS			
DESC.	Color	CONDUIT Size	Cable / Wires
COMPUTER	Yellow	1ø16 CONDUIT	CAT6 SHIELDED CABLE
POWER	Green	1ø16 CONDUIT	3x2.5 mm2 wires or XLPE Cable
UPS	Green	1ø16 CONDUIT	3x2.5 mm2 wires or XLPE Cable
TELEPHONE	Brown	1ø16 CONDUIT	CAT5 SHIELDED CABLE
LIGHTING	Blue	1ø16 CONDUIT	3x1.5 mm2 wires or XLPE Cable
FIRE	Red	1ø16 CONDUIT	4x0.8 mm2 FIRE CABLE(RED)
CAMERA, Access Control	White	1ø16 CONDUIT	CAT6 SHIELDED CABLE
TV/Sat.	White	1ø16 CONDUIT	RG 59
Public Address Speakers	White	1ø16 CONDUIT	2x1 mm2 multicore speaker cable
Burglar Alarm	White	1ø16 CONDUIT	2 pair telephone cable
**All Conduits used shall be fire rated "Self Extinguishing"			





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PROJECT:

Renovation & Rehabilitation of Basma Center

Al Tur, Jerusalem

Designed by:

Arch. Ibrahim Younan
Arch. ISIAM HIJAZI

SHEET NAME:

Grounding System

LEVEL: BASEMENT FLOOR PLAN (Kindergarten)

SCALE: 1:100

ELECTRICAL WORKS

MIDHAT ALSHARIF
Electrical Engineer
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Tel. 02-584-9676, 072 261 7233

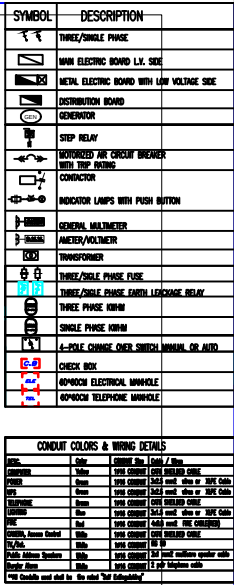
Design Team:
Eng. Wafa Ramoni

Checked & Approved
Eng. Midhat Alsharif

SHEET NO.

E-08

APRIL 2014



CONDUIT COLORS & WIRING DETAILS			
TYPE	Color	CONDUIT Size	Cable / Wires
COMPUTER	Yellow	1/2" CONDUIT	4/8 twisted COAX
POWER	Green	1/2" CONDUIT	3/4" steel, 120v or 240V Cables
	Green	1/2" CONDUIT	3/4" steel, 120v or 240V Cables
TELEPHONE	Green	1/2" CONDUIT	4/8 twisted COAX
TELEVISION	Blue	1/2" CONDUIT	3/4" steel, 120v or 240V Cables
PLUMB	Red	1/2" CONDUIT	4/8 steel, FIRE CHALLENGER
Control, Access Control	White	1/2" CONDUIT	4/8 twisted COAX
TV Ant.	White	1/2" CONDUIT	16 1/2"
Public Address System	White	1/2" CONDUIT	2 pair twisted speaker cable
Security Alarm	White	1/2" CONDUIT	2 pair telephone cable

