LIGHTING SYSTEM

SYMBOL	DESCRIPTION
F1	60x60cm LED MODULE TYPE RECESSED LIGHTING FIXTURE, 40W,4000K, MIN. 100LUMEN/W, CRI>80, IP-20.
F2	DITTO AS ABOVE BUT WITH EMERGENCY KIT.
F3	SURFACE MOUNTED WITH LED MODULE STRIP LAMP, 4000 LUMEN ,40WATT, CRI>80 STEEL BODY AND ACRYLIC DIFFUSER IP-20
F4	DITTO AS ABOVE BUT WITH EMERGENCY KIT
F5	SURFACE MOUNTED WITH LED MODULE STRIP LAMP,4000 LUMEN , 40WATT, CRI>80 ALUMINUM BODY AND POLYCARBONATE DIFFUSER IP-65
F6	DITTO AS ABOVE BUT WITH EMERGENCY KIT
F7	SURFACE MOUNTED WITH LED MODULE STRIP LAMP, 2700 LUMEN ,27WATT, CRI>80 STEEL BODY AND ACRYLIC DIFFUSER IP-20
F8	DITTO AS ABOVE BUT WITH EMERGENCY KIT
F9	SURFACE MOUNTED WITH LED MODULE STRIP LAMP,4000 LUMEN , 40WATT, CRI>80 MADE OF DIE- CAST ALUMINUM AND MICRO PRISMATIC DIFFUSER IP-44
F10	RECESSED MOUNTED, LED MODULE DOWNLIGHT, 20W,4000K, CRI>80,MIN. 100LUMEN/W, CRI>80, GLASS COVER, IP-20.
F11	SPOTLIGHT LED MODULE TYPE RECESSED LIGHTING FIXTURE, 20W,4000K, CRI>80 MIN. 100LUMEN/W, IP-44.
F12	SPOTLIGHT LED MODULE TYPE RECESSED LIGHTING FIXTURE, 12W,4000K, CRI>80 MIN. 100LUMEN/W, IP20.
F13	DITTO AS ABOVE BUT WITH EMERGENCY KIT.
F14	SURFACE MOUNTED LED LIGHT FIXTURE LAMP, 1100LUMEN , 11WATT, CRI>80, IP20.
F15	DITTO AS ABOVE BUT WITH EMERGENCY KIT
F16	SURFACE MOUNTED LED LIGHT FIXTURE LAMP, 1000LUMEN , 10WATT,4000K, CRI>80 MIN. 100LUMEN/W, CRI>80 IP-44.
F17	WALL MOUNTED DUST PROOF LUMINARE, WITH 20W LED LAMP WITH METALLIC GUARD, IP-54.
F18	OUTDOOR FLOODLIGHT, BODY OF DIE-CAST ALUMINIUM,100W,4000K, CRI>80 MIN. 125 LUMEN/W,IP-65
F19 R	RECESSED MOUNTED LED LIGHT FIXTURE LAMP, 1000LUMEN , 10WATT,4000K, CRI>80 MIN. 100LUMEN/W, CRI>80 IP-44.
F20	DITTO AS F9 TYPE BUT WITH EMERGENCY KIT.
F21	SURFACE MOUNTED LED LIGHT FIXTURE LAMP, 2000LUMEN , 20WATT,4000K, CRI>80 MIN. 100LUMEN/W, CRI>80 WITH OPAL DIFFUSER COVER,IP-44.
P1	SINGLE ARM STEEL POLE, 8.0M HEIGHT WITH 0.5M LENGTH ARM,MIN. 125 LUMEN/W, AND 1X80W LED LAMP LIGHTING FIXTURE, CRI>80, BODY OF DIE-CAST ALUMINIUM FOR HIGH CORROSION RESISTANCE, POWDERED PAINT, IP-65
P2	DOUBLE ARM STEEL POLE, 8.0M HEIGHT WITH 0.5M LENGTH ARM,MIN. 125 LUMEN/W, AND 2X80W LED LAMP LIGHTING FIXTURE, CRI>80, BODY OF DIE-CAST ALUMINIUM FOR HIGH CORROSION RESISTANCE, POWDERED PAINT, IP-65
P3	4 X 180 WATT LED LAMP HIGH PERFORMANCE FLOODLIGHT WITH OPTIC REFLECTOR FOR LED DOUBLE ENDED LAMPS, IP66, CRI>80.MIN. 135 LUMEN/W, BODY AND FRAME: DIE-CAST ALUMINIUM ,8.0METER HEIGHT
EXIT EXIT EXIT	EXIT SIGN LIGHTING FIXTURE ,SELF CONTAINED MAINTAINED, PENDANT FROM CEILING OR WALL MOUNTED WITH 5WATT LED LAMP WITH , EMERGENCY KIT AND SELF TEST FACILITY IP20.
F	WALL MOUNTED ELECTRICAL FAN 100 WATT.
	1-GANG, 2-GANG, 3-GANG LIGHTING SWITCH, ONE WAY 10A
	1-GANG, 2-GANG LIGHTING SWITCH,TWO WAYS,3-GANG,THREE WAYS,10A
	INTERMEDIATE SWITCH 10A
	10A PUSH-BUTTON SWITCH WITH INDICATION LAMP.
	PASSIVE INFRARED CEILING MOUNTED PRESENCE DETECTOR.

POWER SYSTEM

SYMBOL	DESCRIPTION
	230V, 13A SINGLE PHASE, 3-PIN SOCKET OUTLET WITH SWITCH.
	230V, 13A SINGLE PHASE, 3-PIN DOUBLE SOCKET OUTLET WITH SWITCH.
	230V, 13A SINGLE PHASE, 3-PIN SIGLE SOCKET OUTLET WITH SWITCH AND INDICATION LAMP, CONNECTED TO UPS PANEL.
U	230V, 13A SINGLE PHASE, 3-PIN SINGLE SOCKET OUTLET WITH SWITCH AND INDICATION LAMP,CONNECTED TO UPS PANEL FOR CAMERA LEVEL AND LOCATION
	230V, 13A SINGLE PHASE, 3-PIN SINGLE SOCKET OUTLET WITH SWITCH AND INDICATION LAMP, CONNECTED TO UPS PANEL, IP44,FOR CAMERA LEVEL AND LOCATION.
	230V, 13A SINGLE PHASE SOCKET OUTLET WITH COVER, IP44 .
	230V, 13A SINGLE PHASE, 3-PIN SOCKET OUTLET WITH SWITCH AND SHUTTER FOR CHILD PROTECTION @1.20M FFL.
	230V, 13A SINGLE PHASE, 3-PIN DOUBLE SOCKET OUTLET WITH SWITCH AND SHUTTER FOR CHILD PROTECTION @1.20M FFL.
	230V, 20A SINGLE PHASE INDUSTRIAL SWITCHED SOCKET OUTLET WITH IP-44.
	400V, 32A THREE PHASE INDUSTRIAL SWITCHED SOCKET OUTLET WITH IP-44.
	230V, 13A SINGLE PHASE, 3-PIN SOCKET OUTLET WITH SWITCH FOR COUNTER
	230V, 13A SINGLE PHASE, 3-PIN DOUBLE SOCKET OUTLET WITH SWITCH FOR COUNTER
	230V, 13A SINGLE PHASE, 3-PIN SOCKET OUTLET WITH SWITCH AND COVER FOR COUNTER IP 44.
	230V, 13A SINGLE PHASE, 3-PIN SOCKET OUTLET WITH SWITCH CEILING MOUNTED FOR PROJECTOR
	230V, 13A SINGLE PHASE, 3-PIN SOCKET OUTLET WITH SWITCH WALL MOUNTED FOR WI - FI @2.5 M HEIGHT
	230V, 20A DOUBLE POLE SWITCH WITH INDICATION LAMP FOR INDOOR SPLIT UNIT
	WALL MOUNTED 230V, 20A DOUBLE POLE SWITCH WITH INDICATION LAMP
WH	WATER HEATER
	DISCONNECT SWITCH (D\S) ISOLATOR, 3-PHASE, SERVING MECHANICAL EQUIPMENT RATING AS SHOWN ON PLANS. IP-65 FOR OUTDOOR UNIT.
	DISCONNECT SWITCH (D\S) ISOLATOR, 1-PHASE, SERVING MECHANICAL EQUIPMENT RATING AS SHOWN ON PLANS. IP-65 FOR OUTDOOR UNIT.
	FINAL DISTRIBUTION BOARD (DB)
	MOTOR CONTROL CENTER (MCC)
	MAIN DISTRIBUTION BOARD (MDB)
UPS	UNINTERRUPTIBLE POWER SUPPLY
E	ELECTRICAL MANHOLE 60X60X80CM
EP	EARTH PIT.
MCCB	3 PHASE MOLDED CASE CIRCUIT BREAKER (MCCB) RATED AS SHOWN ON PLANS.
MCCB	1 PHASE MOLDED CASE CIRCUIT BREAKER (MCCB)
MCB	3 PHASE MINIATURE CIRCUIT BREAKER (MCB)
MCB	1 PHASE MINIATURE CIRCUIT BREAKER (MCB)
	INDICATOR LAMP
TCL	TOTAL CONNECTED LOAD.
TDL	TOTAL DEMAND LOAD.
	EARTHING PIT.

LOW CURRENT AND SECURITY SYSTEMS

SYMBOL	DESCRIPTION
	1/3" CMOS IMAGE SENSOR , 3MP SENSOR PIXELS , DAY LIGHT 3.8 _13 MM VARIFOCAl NETWORK CAMERA COMPLETE WITH OUT DOOR HOUSING IP 66 (NEMA 4X)
	1/2.7" CMOS IMAGE SENSOR , FIXED IN CEILING RECESSED / SURFACE MOUNTED DOME NETWORK DAY NIGHT VARIFOCAL 3.8/13 MM CAMERA
	METAL MAGNETIC CONTACT
	INTERNAL INTRUSION SOUNDER
	INTRUSION CONTROL PANEL
	RJ11 SINGLE VOICE WALL MOUNTED OUTLET @ 0.4 M
	DUAL RJ45 DATA & VOICE WALL MOUNTED OUTLET @ 0.4 M.
	SINGLE RJ45 DATA & VOICE WALL MOUNTED OUTLET @ 0.4 M.
C	SINGLE DATA OUT LET (COUNTER FITTING) AS PER ARCH ENLARGEMENT DETAIL
	SINGLE RJ45 ON FLEET WALL MOUNT @ 2.5M PROVISION FOR WIRELESS ACCESS POINT
	DITTO BUT CEILING MOUNT PROVISION FOR PROJECTOR
DC-	19" DATA CABINET.(AS SPECIFICATION & BOQ)
PAR	SCHOOL RADIO AND PUBLIC ADDRESS RACK @ RADIO ROOM
AVR	AUDIO VIDEO RACK @ MULTIPURPOSE STAGE
	LCD PROJECTOR WITH CEILING MOUNT BRACKET
	6 WATT WALL MOUNT SPEAKER @ 2.2 M F.L.L.
	20 WATT WALL MOUNT OUTDOOR HORN SPEAKER @ 3 M F.L.L.
	SCHOOL PROGRAM / CLASSROOM CHANGE BELL
V	SCHOOL PROGRAM / CLASSROOM CHANGE SIREN/FLASHER
	SCHOOL PROGRAM / CLASSROOM CHANGE BELL CONTROLLER @ PRINCIPLE OFFICE
	STAGE LIGHTING PARCAN
	PROFESSIONAL WALL MOUNT SPEAKER @ MULTIPURPOSE
	200" MOROIZED SCREEN
JB -	19" TELPHONE CONNECTION BOX .(AS SPECIFICATION & BOQ)
	7 METER TRIANGULAR ALUMINUM TRUSR

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
S	CONVETIONAL PHOTOELECTRIC SMOKE DETECTOR WITH BASE.
A S	DITTO AS ABOVE BUT ABOVE FOLSE SAILING
H	CONVENTIONAL RATE OF RISE HEAT DETECTOR WITH BASE.
B	CONVENTIONAL PULL STATION
V	INDOOR CONVENTIONAL FLASHER/SOUNDER.
W V	OUT DOOR CONVENTIONAL FLASHER/SOUNDER.
FACP	CONVENTIONAL FIRE ALARM CONTROL PANEL (ZONES AS PER BOQ).
EOL	END OF LINE RESISTOR.

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PHASE III

PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: Electrical Legend

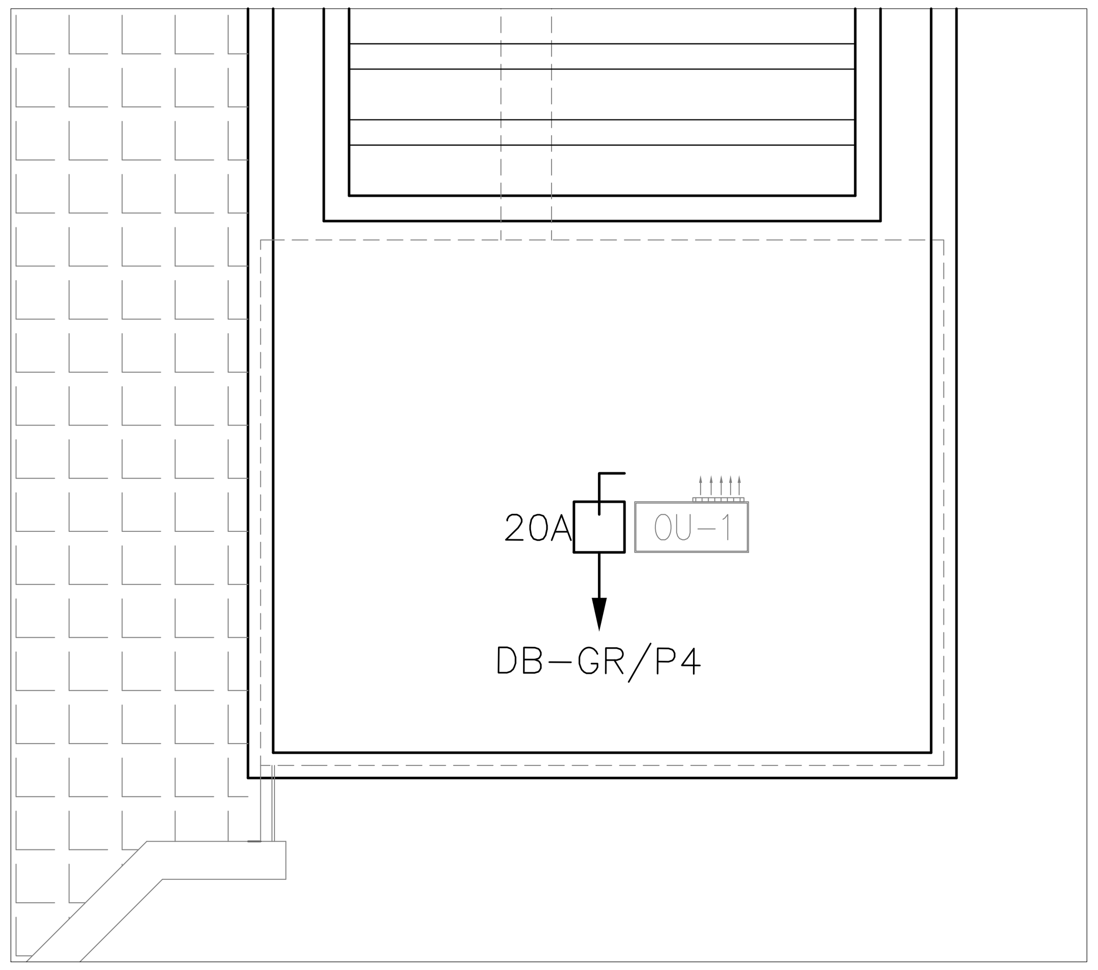
PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
M.A.	CAD	KH.A.
SCALE : N.T.S.	Date: JUNE 2020	Approved: W.Z.

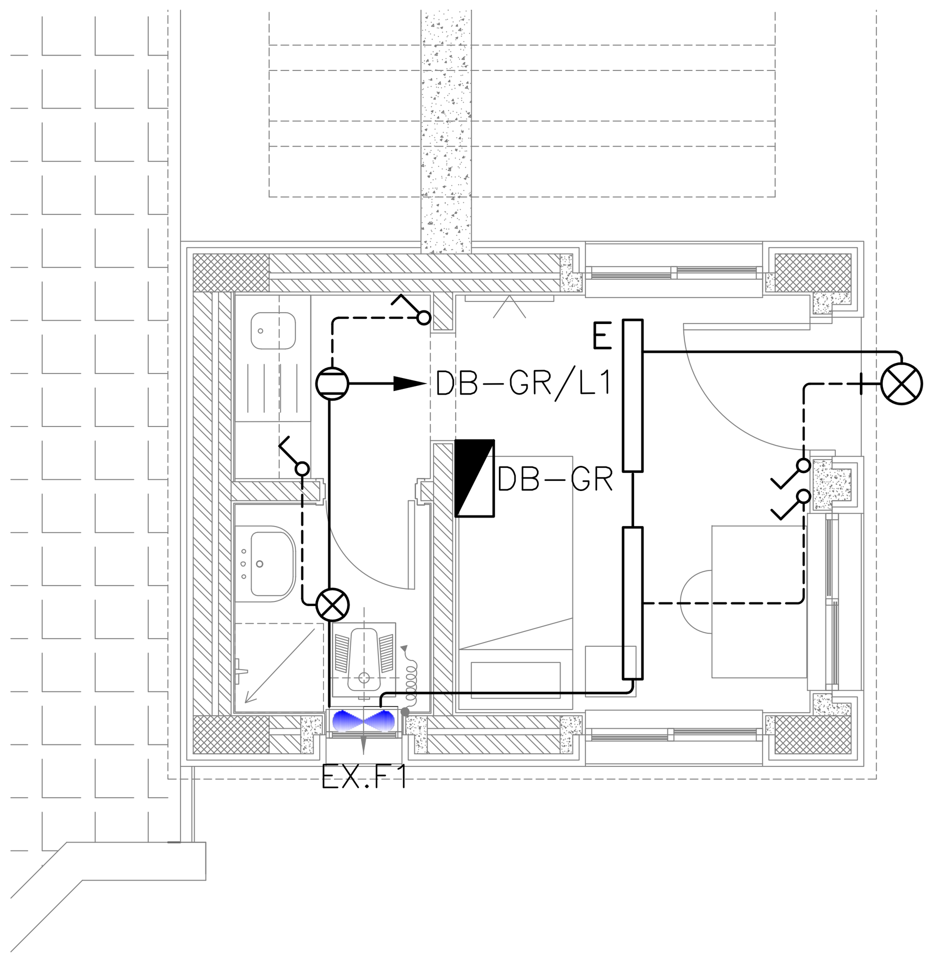
DRAWING NUMBER: SKEP 17-EG001

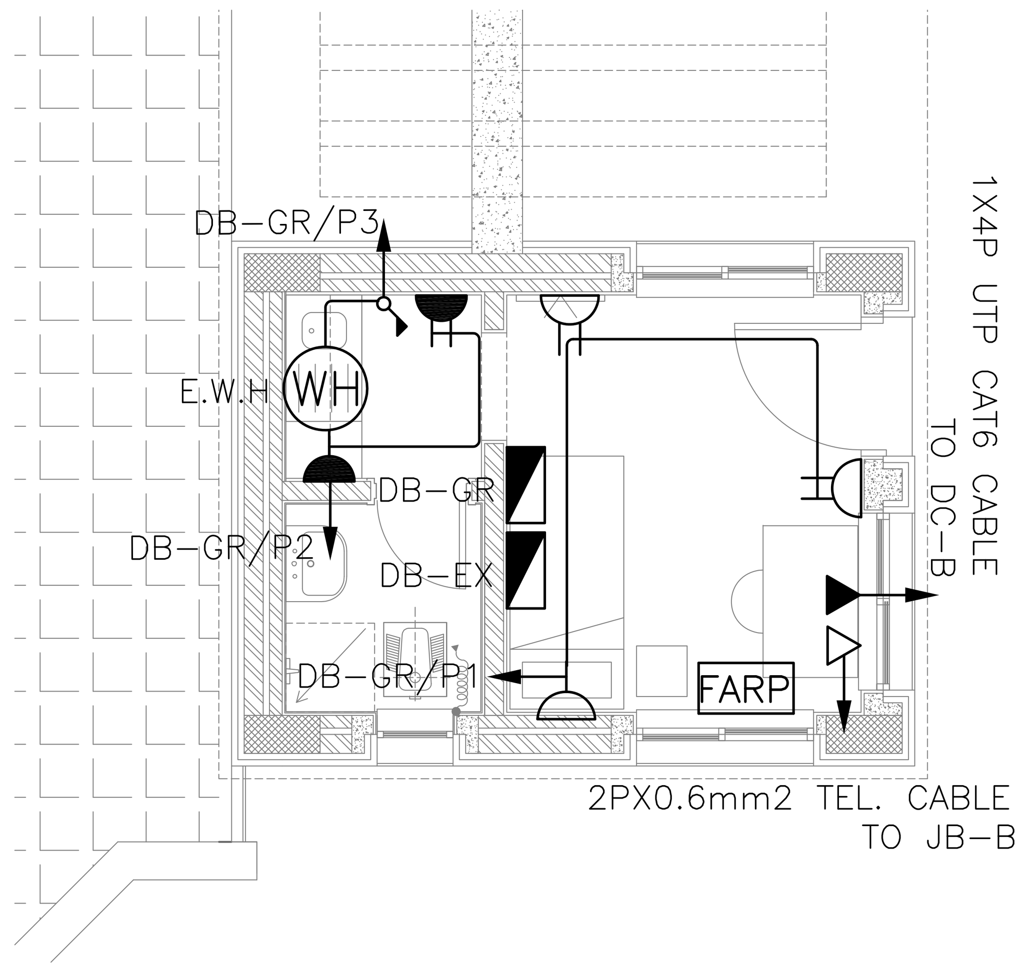
Rev.: 0

North :



PANEL NAME :DB-GR					1PHASE,230v,50Hz,2W&E	
CIRCUIT NO.	DESCRIPTION	LOAD (W)	C.B NO.	AMP (TRIP)	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)
L1	LIGHTING	200	1	10	3X2.5	20
P1	SOCKET OUTLETS	1000	2	16	3X4.0	20
P2	SOCKET OUTLETS	600	3	16	3X4.0	20
P3	E.W.H	1200	4	20	3X4.0	20
P4	S.U	2400	5	20	3X4.0	20
	SPARE		6	10		
	SPARE		7	10		
	SPARE		8	16		
CONNECTED LOAD (W)			5400			
TOTAL CONNECTED LOAD(KW)			5.4			
DEMAND FACTOR			0.8			
TOTAL DEMAND LOAD(KW)			4.32			
DESIGN CURRENT			22.1			
BREAKER SIZE			ISOLATER 100A			
CABLE SIZE			(3X10)mm2 CU/XLPE/SWA/PVC			
FED FROM			MDB			
Type			FLUSH MOUNTED			
PANEL LOCATION			GUARD ROOM			





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PHASE III

PACKAGE 1

KHADIJA BINT KHWAILED BASIC
(AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
GUARD HOUSE
ELECTRICAL SYSTEM

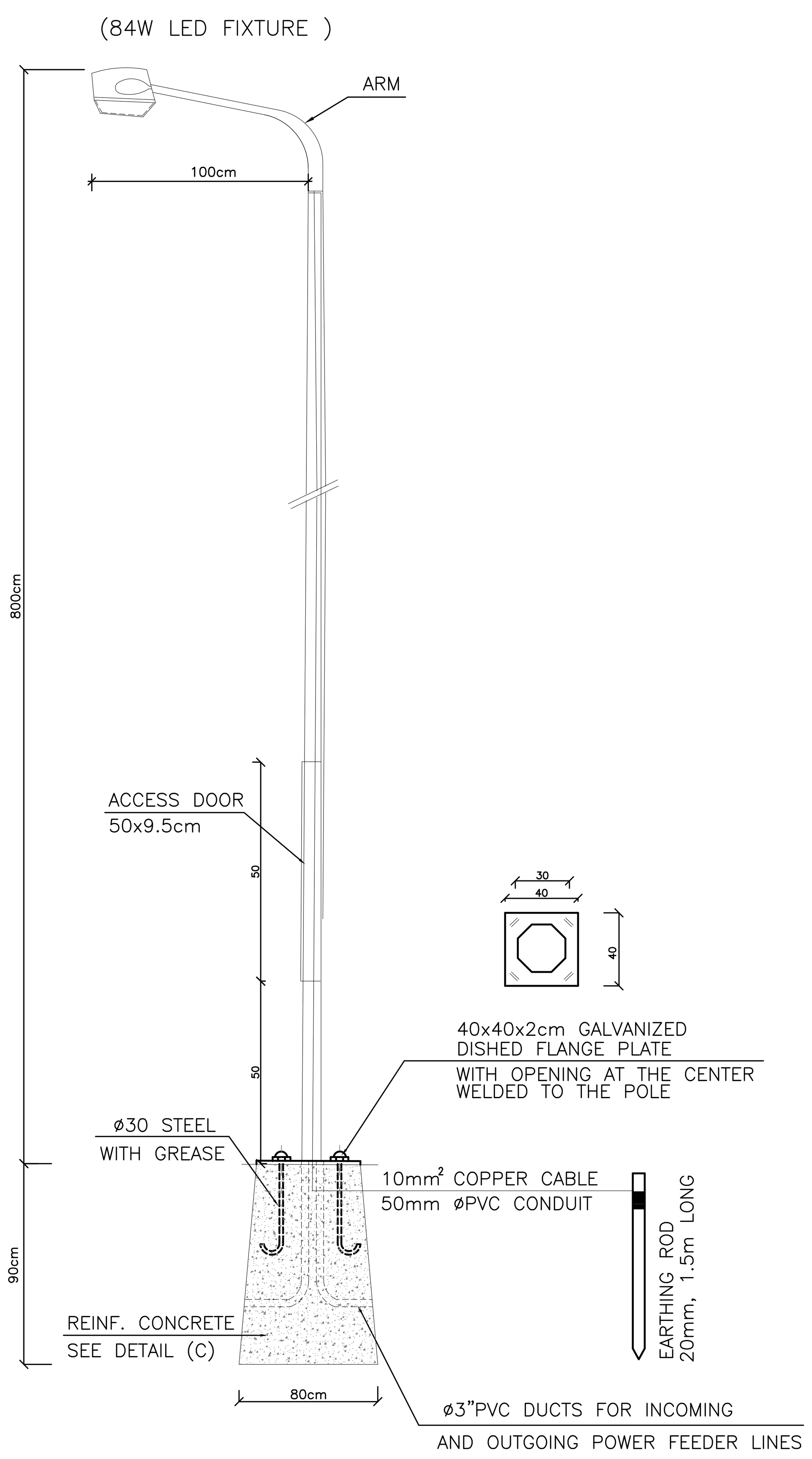
PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
A.A.	CAD	KH.A.
SCALE : 1:50	Date: JUNE 2020	Approved: W.Z.

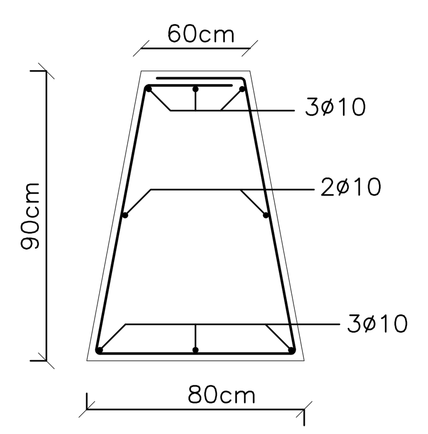
North :

DRAWING NUMBER: SKEP 17-EG002

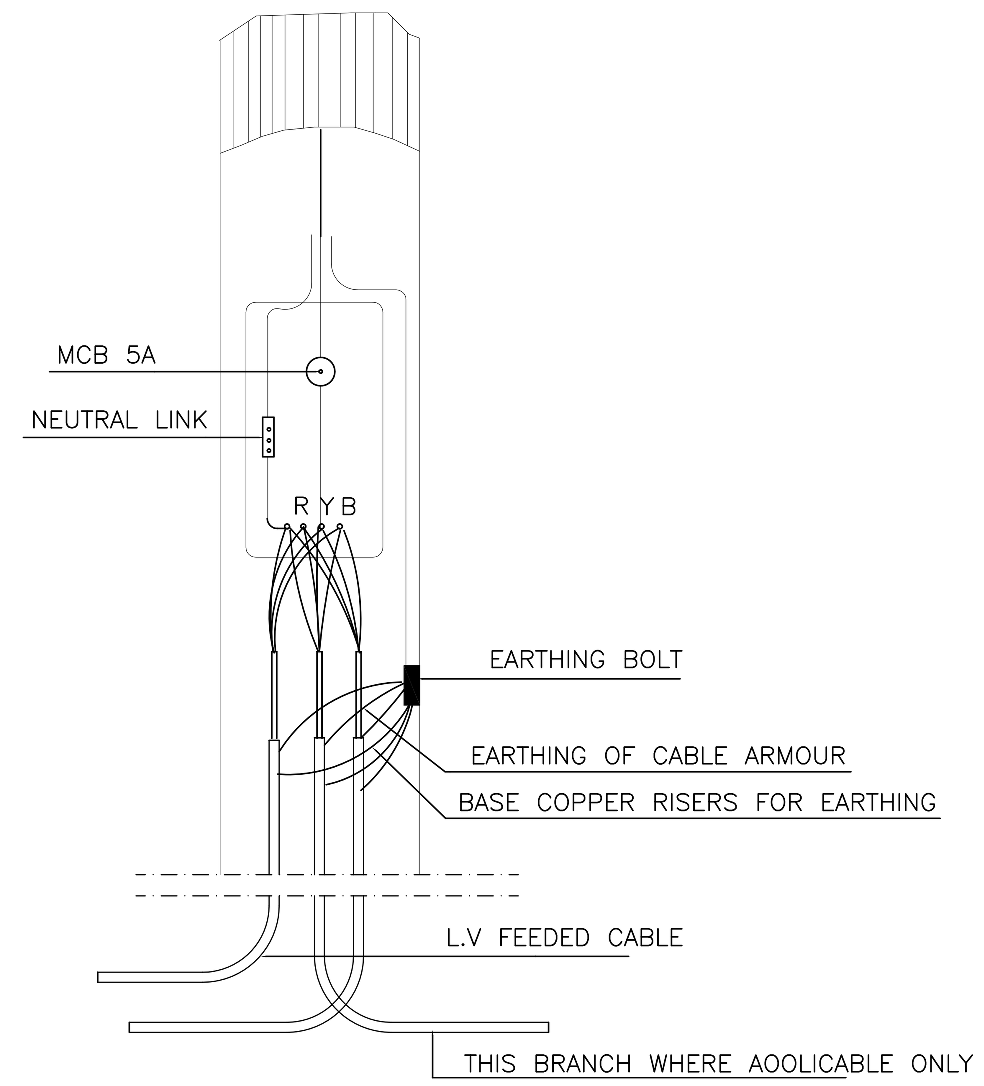
Rev.: 0



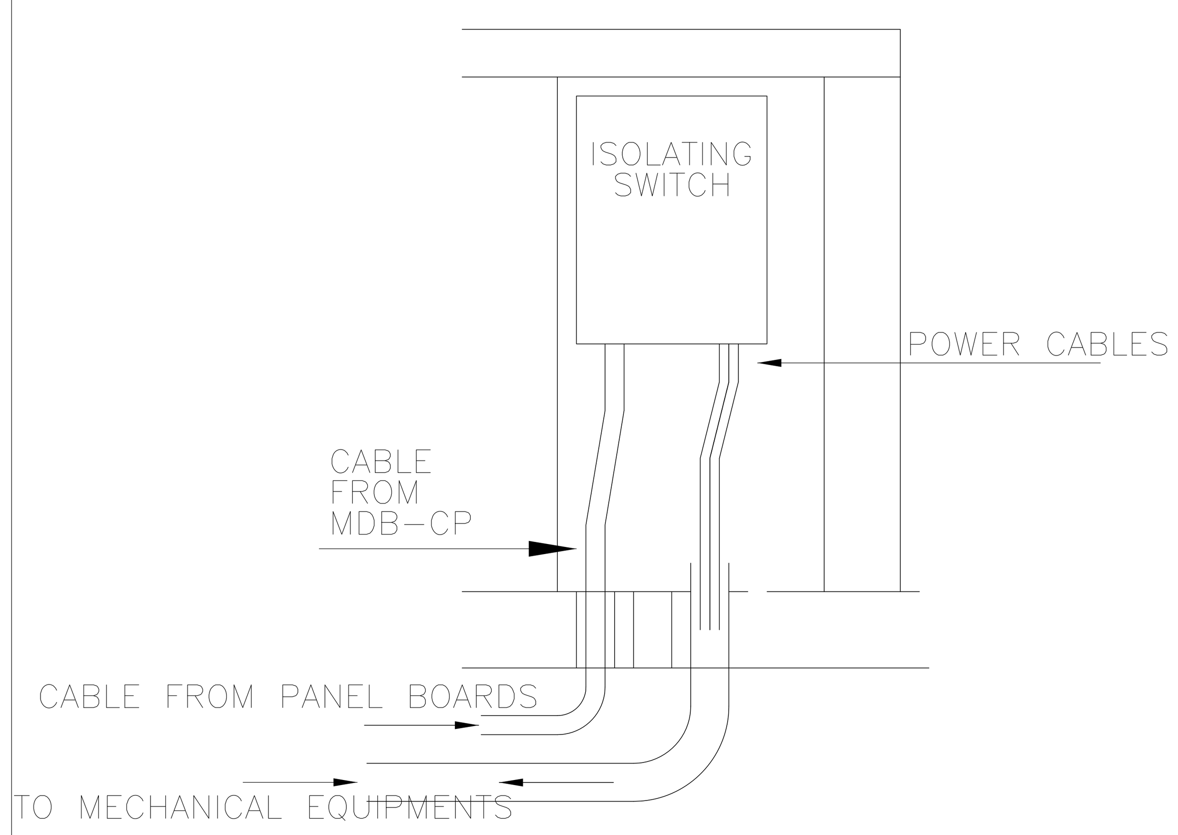
STREET LIGHTING POLE
N.T.S.



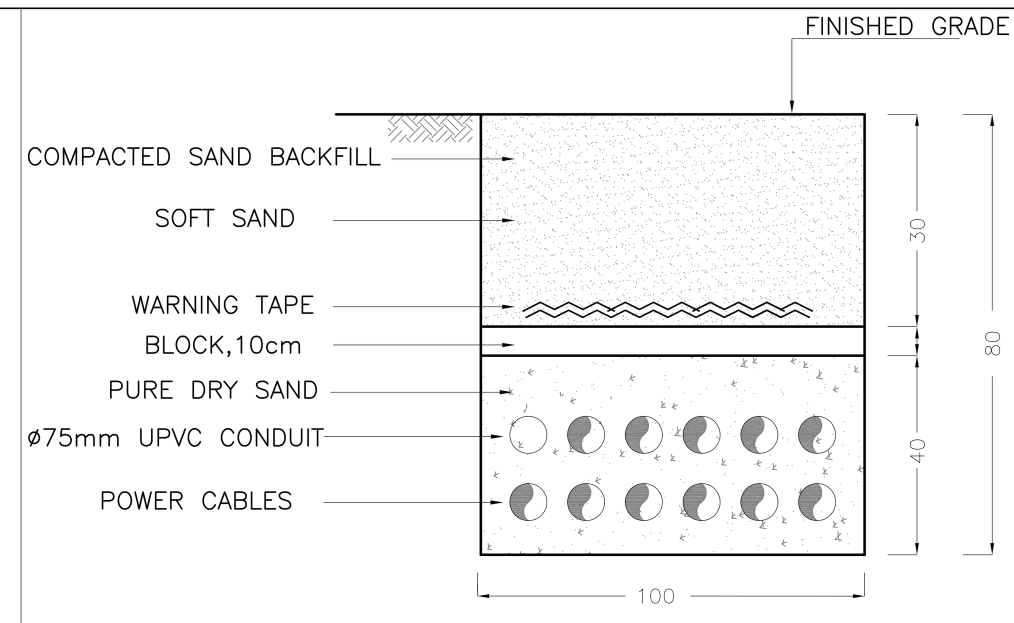
DETAIL (C)
REINFORCED CONCRETE (R.C.) BASE
N.T.S.



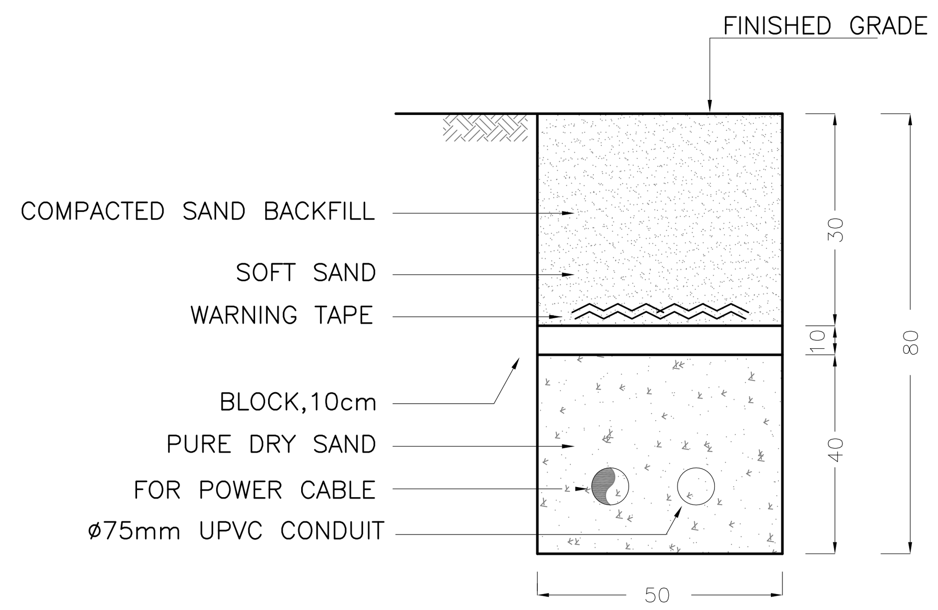
SCHEMATIC OF JUNCTION BOX
AT BASE OF POLE
N.T.S



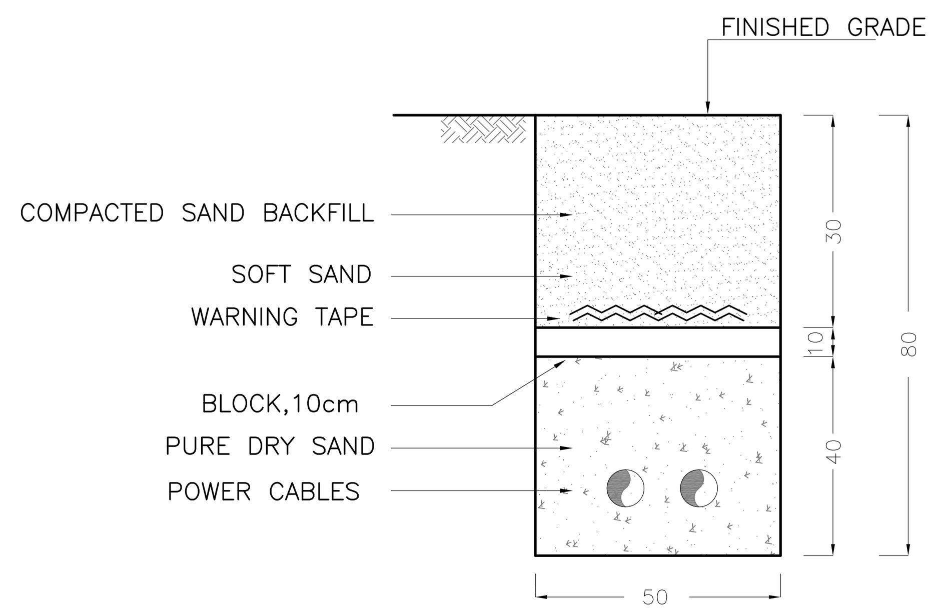
DETAILS SECTION "B"
N.T.S.



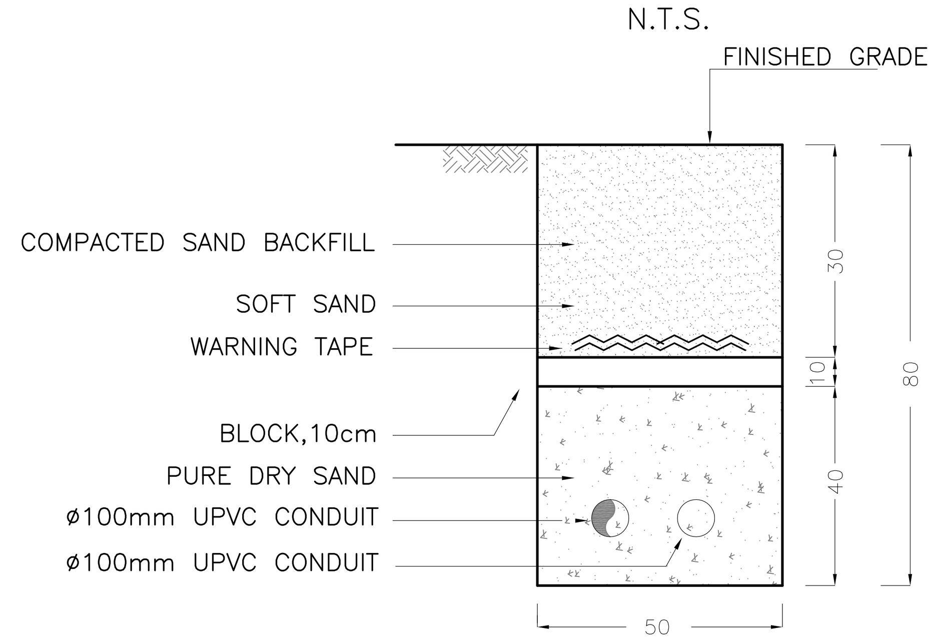
ELECTRICAL TRENCH
SECTION (A-A)
N.T.S.



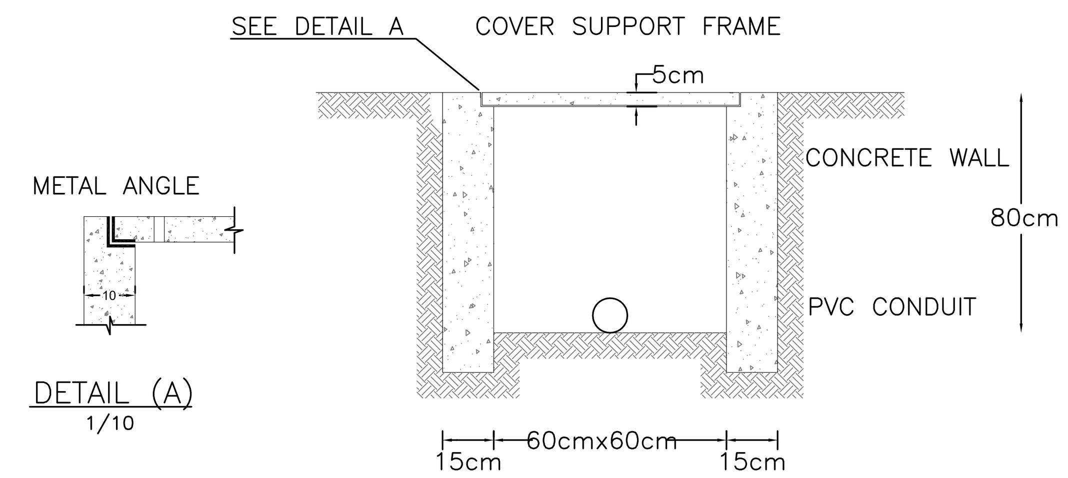
ELECTRICAL TRENCH
SECTION (B-B)
N.T.S.



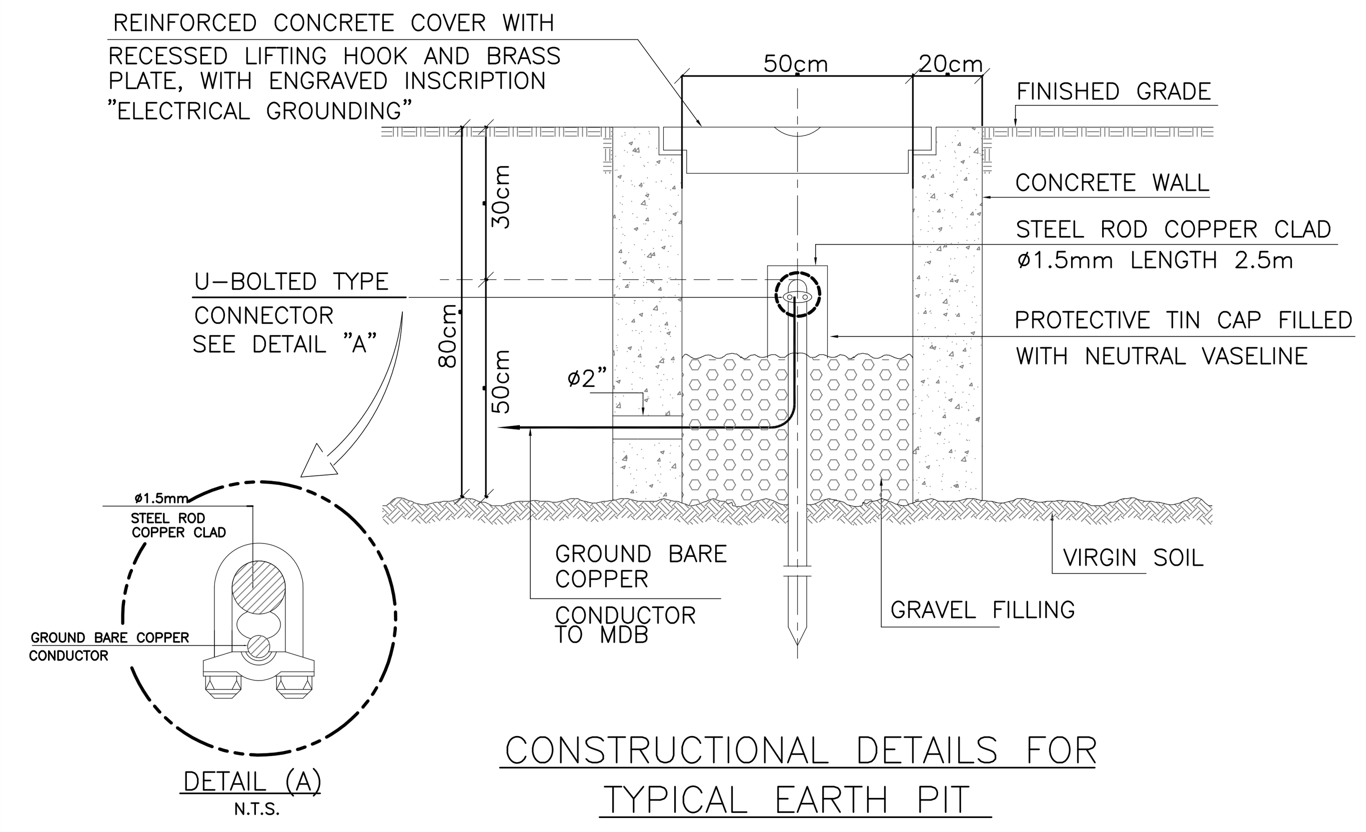
ELECTRICAL TRENCH
SECTION (C-C)
N.T.S.



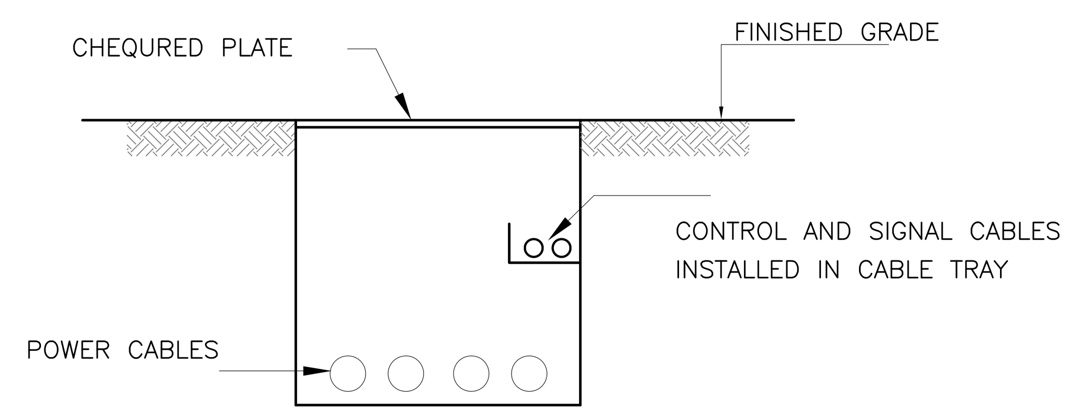
LOW CURRENT TRENCH
N.T.S.



ELECTRIC CONCRETE MANHOLE
N.T.S



CONSTRUCTIONAL DETAILS FOR
TYPICAL EARTH PIT
N.T.S.



CONCRETE ELECTRICAL TRENCH
N.T.S.

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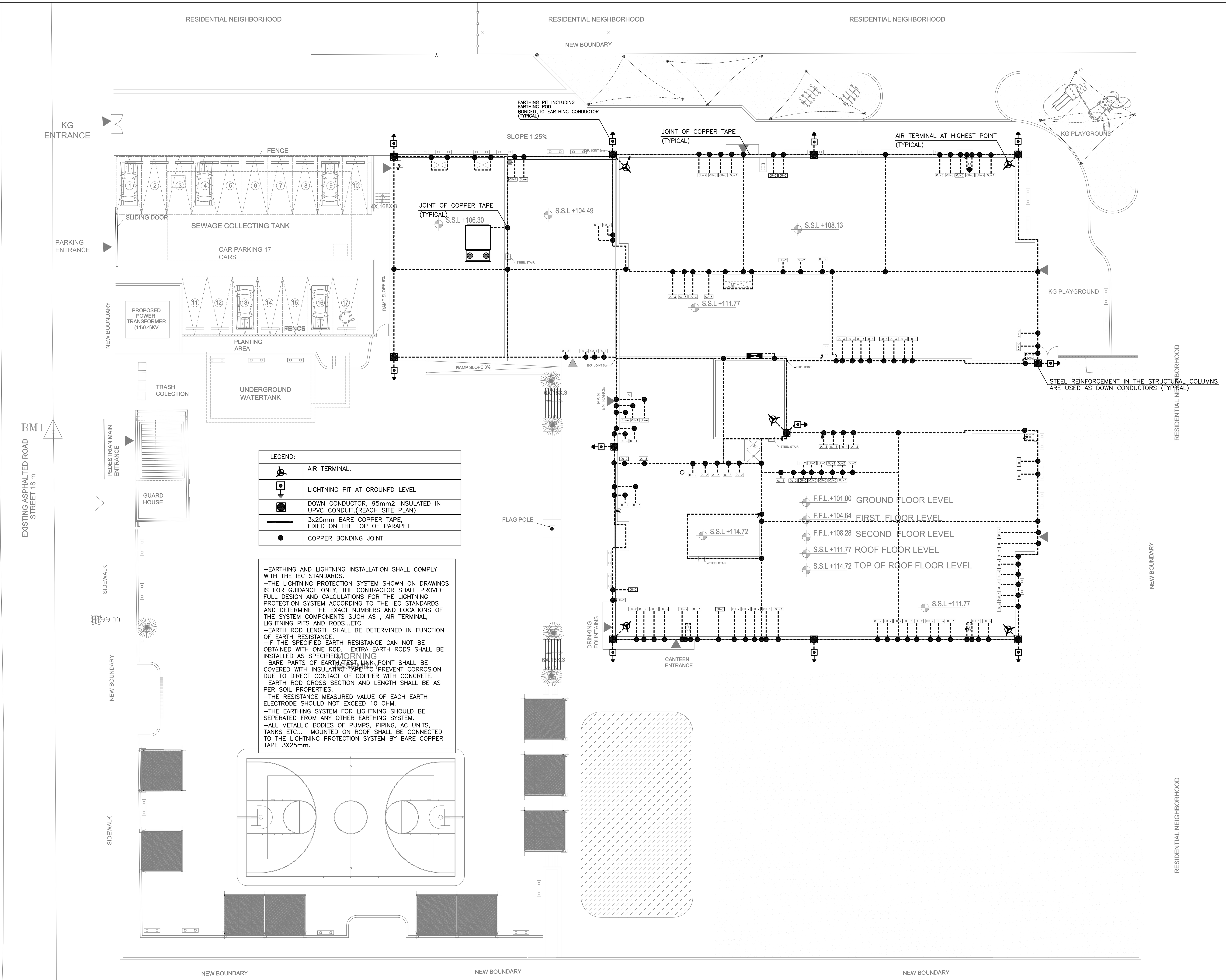
KHADIJA BINT KHWAILED BASIC
(AL SHOUNA AL JANOBIA)
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:	Design:	Drawn:	Checked:	North :
Electrical Details	M.A.	CAD	KH.A.	
	SCALE : N.T.S.	Date: JUNE 2020	Approved: W.Z.	
PLOT No 696 / LOCATION Southern Shouneh / BASIN NO 35 AL SAKNH	DRAWING NUMBER: SKEP 17-EG003			Rev.: 0



LEGEND:

	AIR TERMINAL.
	LIGHTNING PIT AT GROUNFD LEVEL
	DOWN CONDUCTOR, 95mm2 INSULATED IN UPVC CONDUIT.(REACH SITE PLAN)
	3x25mm BARE COPPER TAPE, FIXED ON THE TOP OF PARAPET
	COPPER BONDING JOINT.

-EARTHING AND LIGHTNING INSTALLATION SHALL COMPLY WITH THE IEC STANDARDS.
-THE LIGHTNING PROTECTION SYSTEM SHOWN ON DRAWINGS IS FOR GUIDANCE ONLY, THE CONTRACTOR SHALL PROVIDE FULL DESIGN AND CALCULATIONS FOR THE LIGHTNING PROTECTION SYSTEM ACCORDING TO THE IEC STANDARDS AND DETERMINE THE EXACT NUMBERS AND LOCATIONS OF THE SYSTEM COMPONENTS SUCH AS , AIR TERMINAL, LIGHTNING PITS AND RODS...ETC.
-EARTH ROD LENGTH SHALL BE DETERMINED IN FUNCTION OF EARTH RESISTANCE.
-IF THE SPECIFIED EARTH RESISTANCE CAN NOT BE OBTAINED WITH ONE ROD, EXTRA EARTH RODS SHALL BE INSTALLED AS SPECIFIED.
-BARE PARTS OF EARTH/TEST LINK POINT SHALL BE COVERED WITH INSULATING TAPE TO PREVENT CORROSION DUE TO DIRECT CONTACT OF COPPER WITH CONCRETE.
-EARTH ROD CROSS SECTION AND LENGTH SHALL BE AS PER SOIL PROPERTIES.
-THE RESISTANCE MEASURED VALUE OF EACH EARTH ELECTRODE SHOULD NOT EXCEED 10 OHM.
-THE EARTHING SYSTEM FOR LIGHTNING SHOULD BE SEPERATED FROM ANY OTHER EARTHING SYSTEM.
-ALL METALLIC BODIES OF PUMPS, PIPING, AC UNITS, TANKS ETC... MOUNTED ON ROOF SHALL BE CONNECTED TO THE LIGHTNING PROTECTION SYSTEM BY BARE COPPER TAPE 3X25mm.

REV.	DATE	REMARKS
1	NOV. 2017	100% SUBMITTAL - REV. (1)
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PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: SITE PLAN LIGHTNING SYSTEM			Design: A.AH.	Drawn: CAD	Checked: K.AH.	North :
			SCALE : 1:200	Date: JUNE 2020	Approved: W.Z.	
PLOT No 696	LOCATION Southern Shouneh	BASIN NO 35 AL SAKNH	DRAWING NUMBER: SKEP 17-EG004			Rev.: 0

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PHASE III

PACKAGE 1

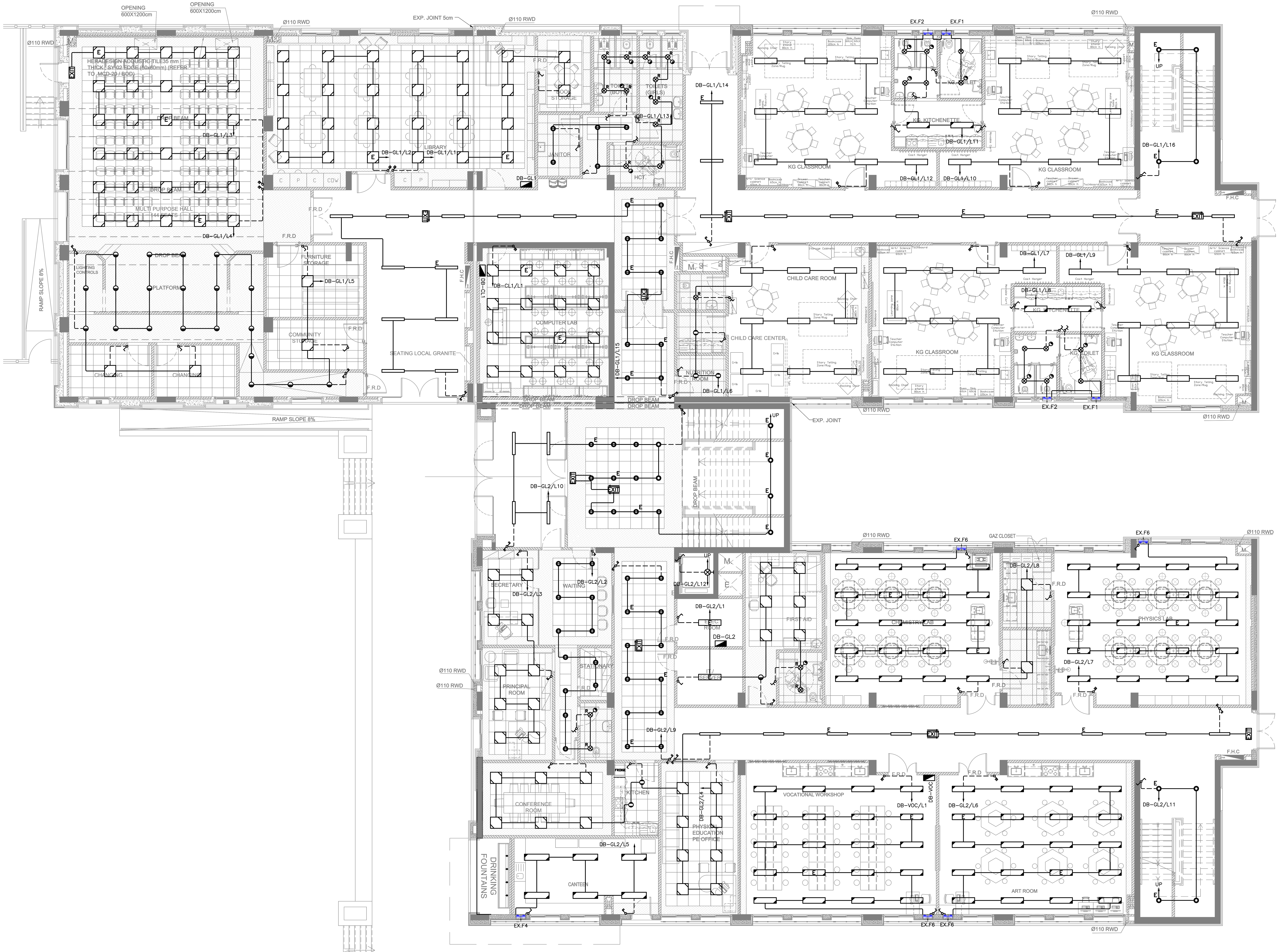
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: SITE PLAN LIGHTING SYSTEM PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH.	Drawn: CAD	Checked: K.AH.	North:
SCALE: 1:200	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-EL100			Rev.: 0



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REV.	DATE	REMARKS
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PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)	DRAWING NAME: GROUND FLOOR PLAN LIGHTING SYSTEM	Design: A.AH. / Drawn: CAD / Checked: K.AH. / North :
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)	PLOT No 696 / LOCATION Southern Shouneh / BASIN NO 35 AL SAKNH	SCALE : 1:100 / Date: JUNE 2020 / Approved: W.Z. / DRAWING NUMBER: SKEP 17-EL101 / Rev.: 0

REV.	DATE	REMARKS
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PHASE III

PACKAGE 1

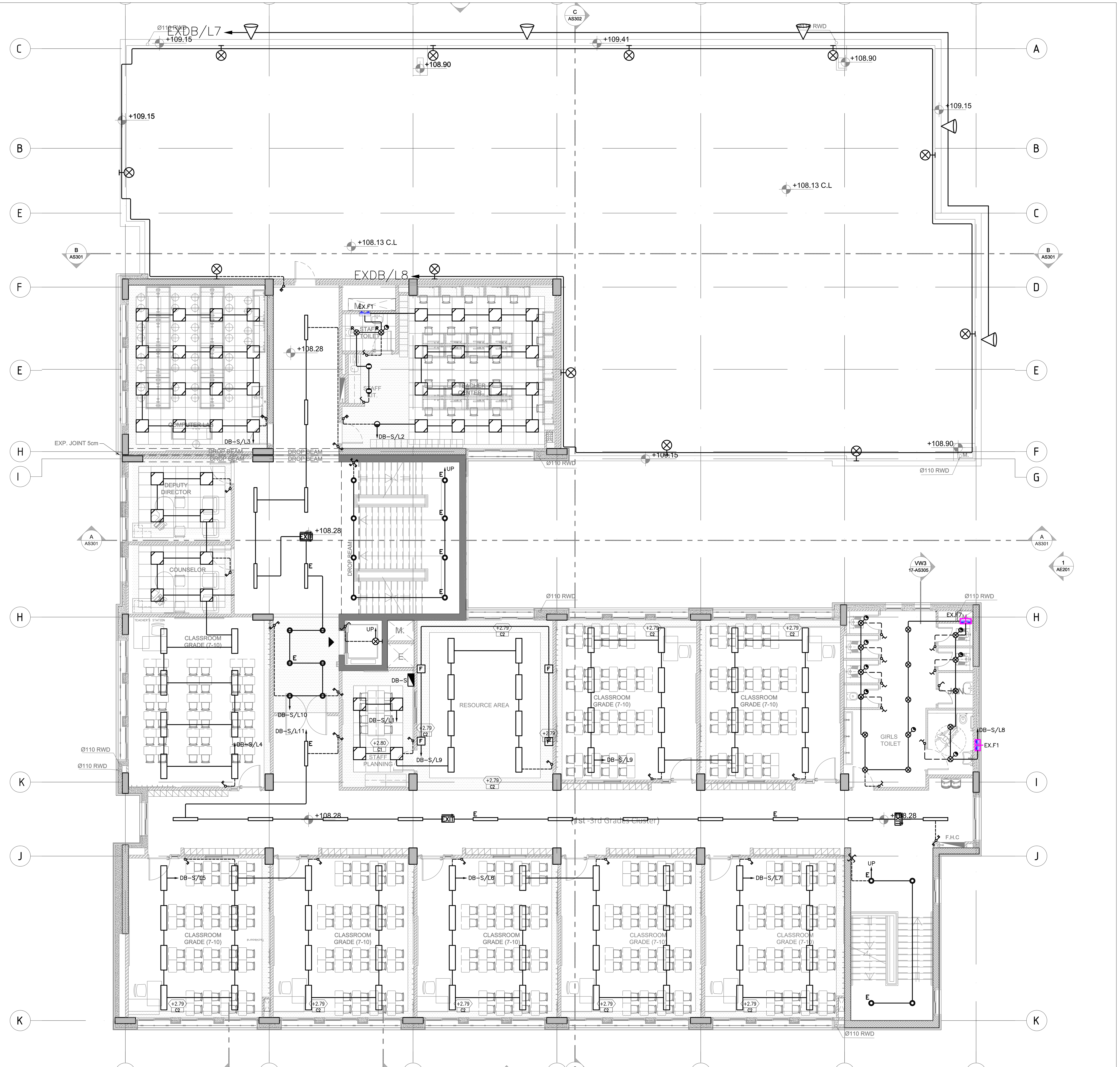
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: FIRST FLOOR PLAN LIGHTING SYSTEM

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH.	Drawn: CAD	Checked: K.AH.	North:
SCALE: 1:100	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-EL102			Rev.: 0



0	JUNE 2020	VOL. IV - TENDER DRAWINGS	NOTES:
REV.	DATE	REMARKS	

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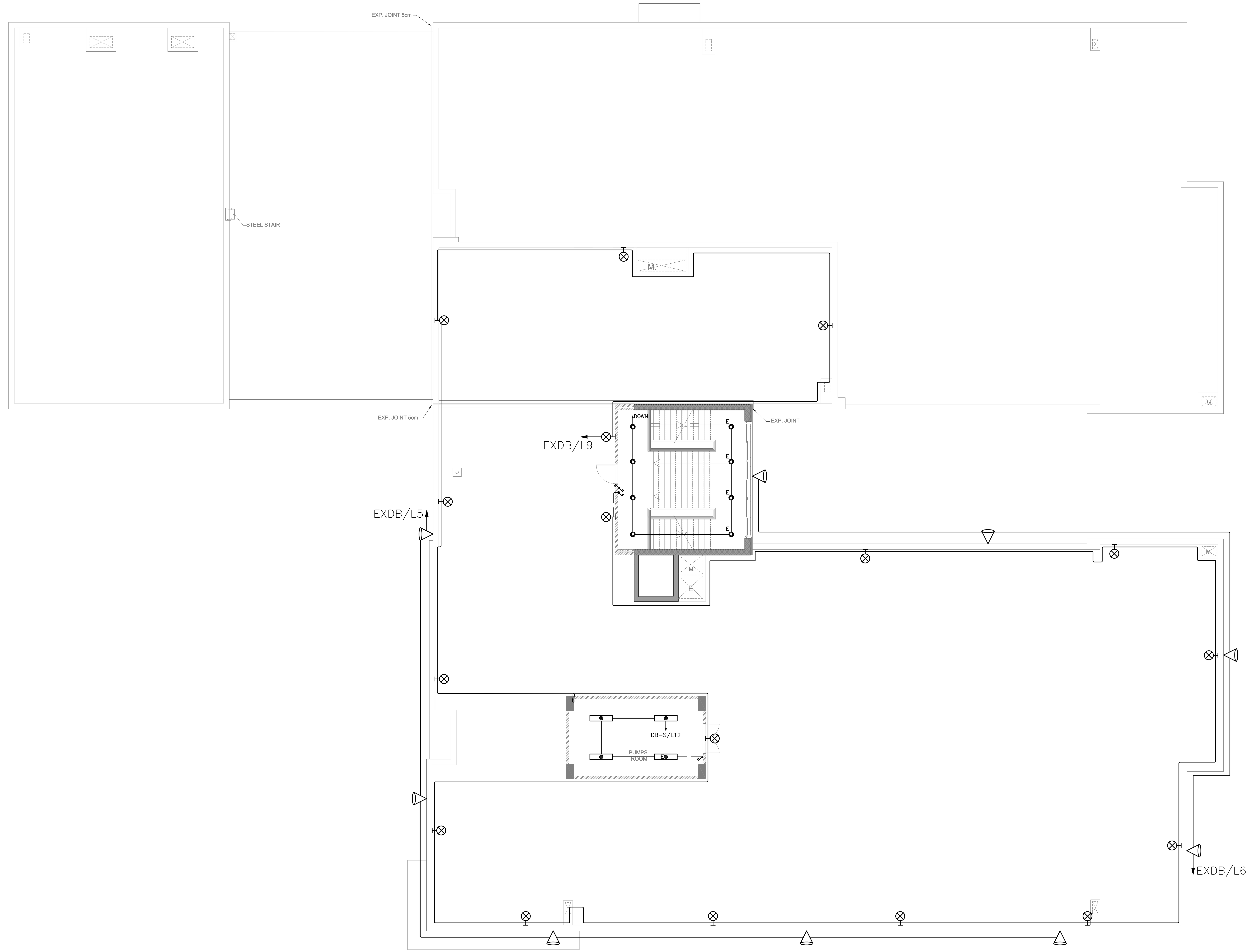
PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)	DRAWING NAME: SECOND FLOOR PLAN LIGHTING SYSTEM	Design: A.AH.	Drawn: CAD
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)	PLOT No 696	SCALE : 1:100	Date: JUNE 2020
		LOCATION Southern Shouneh	Checked: K.AH.	Approved: W.Z.
		BASIN NO 35 AL SAKNH	DRAWING NUMBER: SKEP 17-EL103	Rev.: 0

North :



REV.	DATE	REMARKS
0	JUNE 2020	VOL. IV - TENDER DRAWINGS

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PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
SECOND FLOOR PLAN
LIGHTING SYSTEM

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH.	Drawn: CAD	Checked: K.AH.	North :
SCALE : 1:100	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-EL104			Rev.: 0

REV.	DATE	REMARKS
1	Jan. 2020	MODIFIED DRAWINGS
0	JUNE 2020	VOL. IV - TENDER DRAWINGS

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PHASE III

PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: SITE PLAN POWER SYSTEM PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
A.AH.	CAD	K.AH.

SCALE :

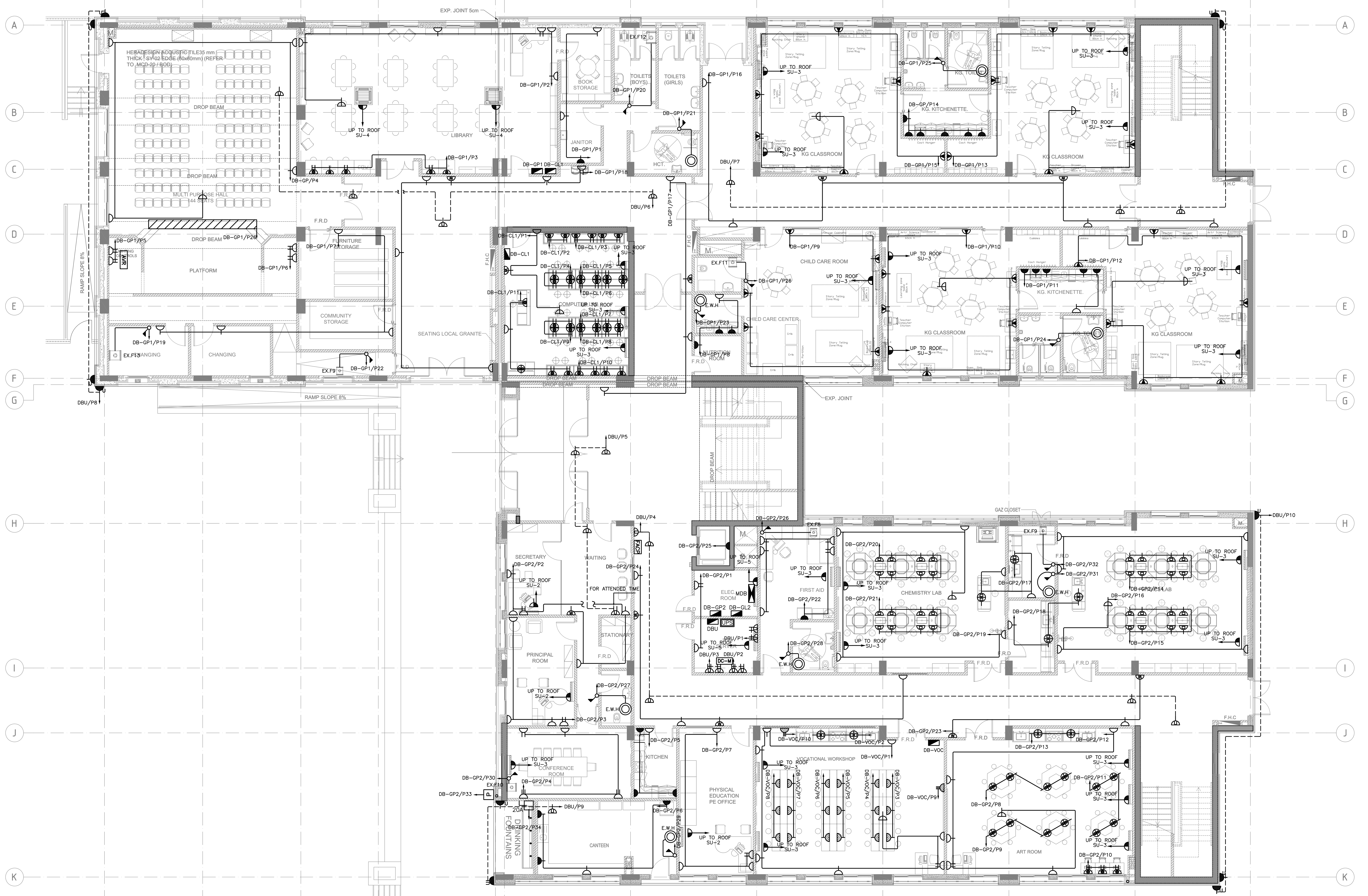
Date: JUNE 2020

Approved: W.Z.

North :

DRAWING NUMBER: SKEP 17-EP100

Rev.: 0



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PHASE III

PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: GROUND FLOOR PLAN POWER PLAN SYSTEM

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH. | Drawn: CAD | Checked: K.AH. | North:

SCALE: | Date: JUNE 2020 | Approved: W.Z.

DRAWING NUMBER: SKEP 17-EP101 | Rev.: 0

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PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

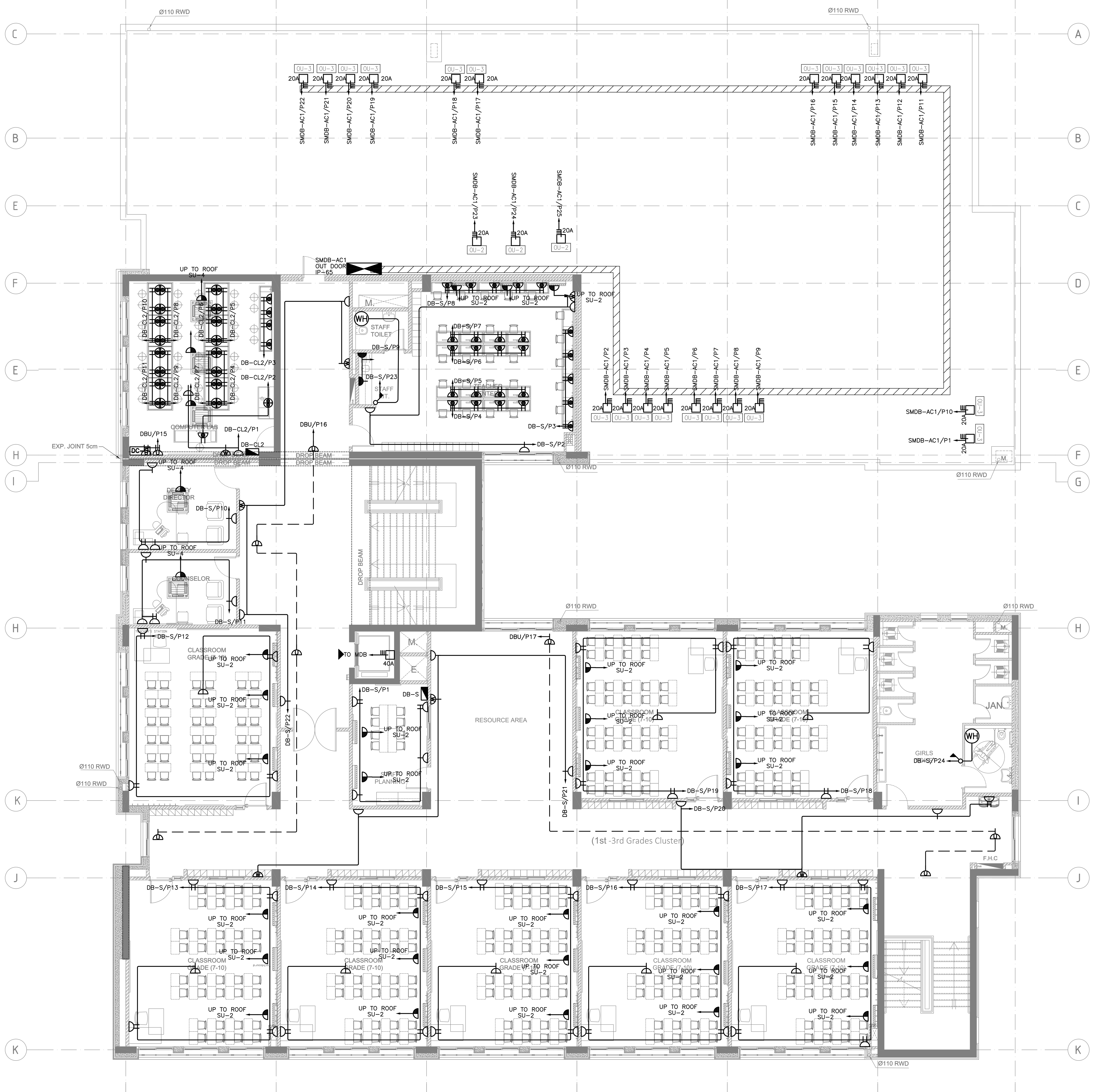
DRAWING NAME: FIRST FLOOR PLAN POWER SYSTEM

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH. Drawn: CAD Checked: K.AH. North :

SCALE : Date: JUNE 2020 Approved: W.Z.

DRAWING NUMBER: SKEP 17-EP102 Rev.: 0



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PHASE III

PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
SECOND FLOOR PLAN
POWER PLAN SYSTEM

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
A.AH.	CAD	K.AH.
SCALE : 1:100	Date: JUNE 2020	Approved: W.Z.

North :

DRAWING NUMBER: SKEP 17-EP103

Rev.: 0

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PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)	DRAWING NAME: SECOND FLOOR PLAN POWER SYSTEM LAYOUT	Design: A.AH.	Drawn: CAD
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)		SCALE :	Date: JUNE 2020

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Checked: K.AH.

Approved: W.Z.

North :

DRAWING NUMBER: SKEP 17-EP104

Rev.: 0

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PHASE III

PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: GROUND FLOOR PLAN FIRE PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:	North :
A.AH.	CAD	K.AH.	
SCALE : 1:100	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-FA101			Rev.: 0

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PHASE III

PACKAGE 1

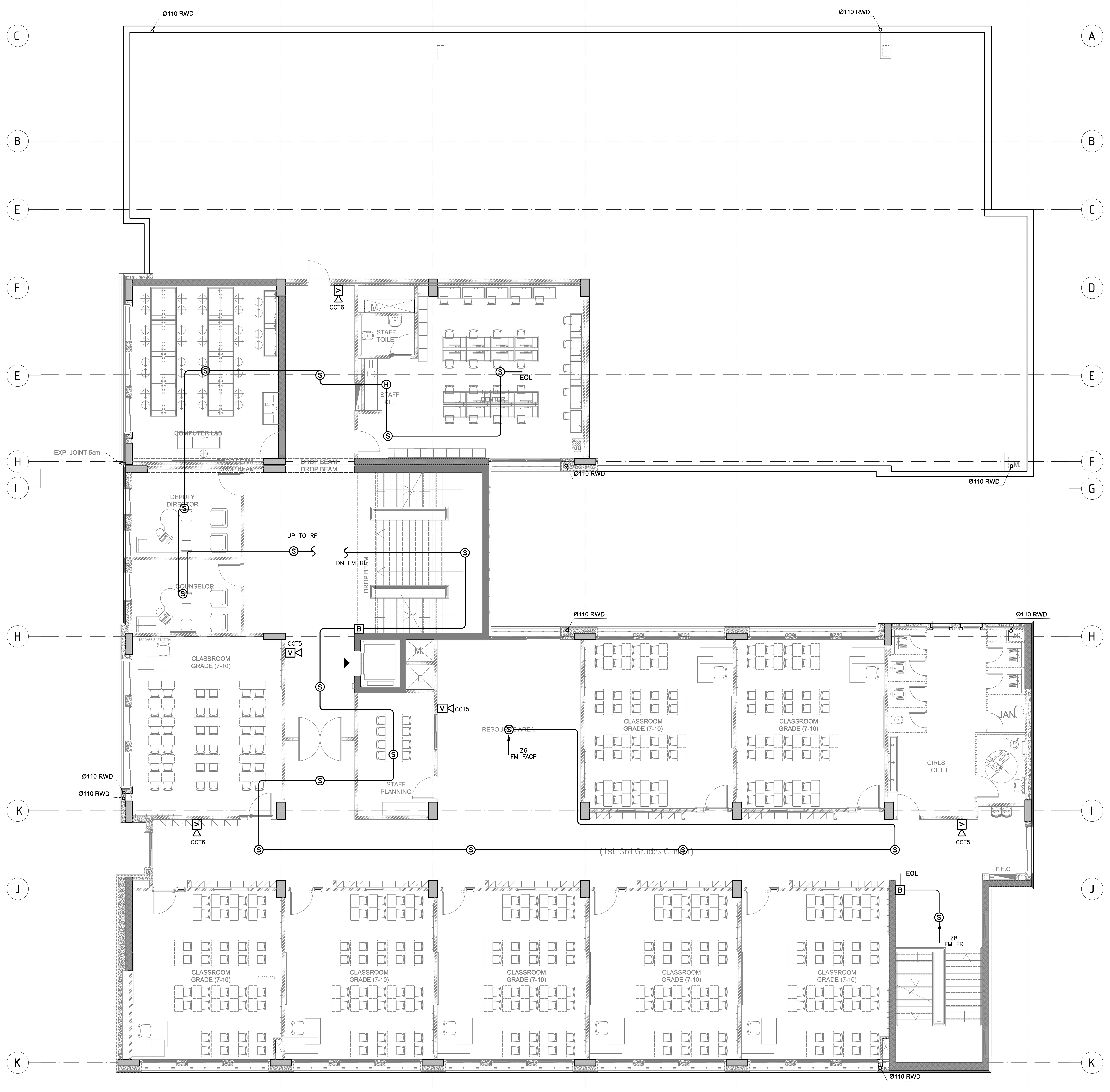
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: FIRST FLOOR PLAN FIRE PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:	North:
A.AH.	CAD	K.AH.	
SCALE: 1:100	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-FA102			Rev.: 0



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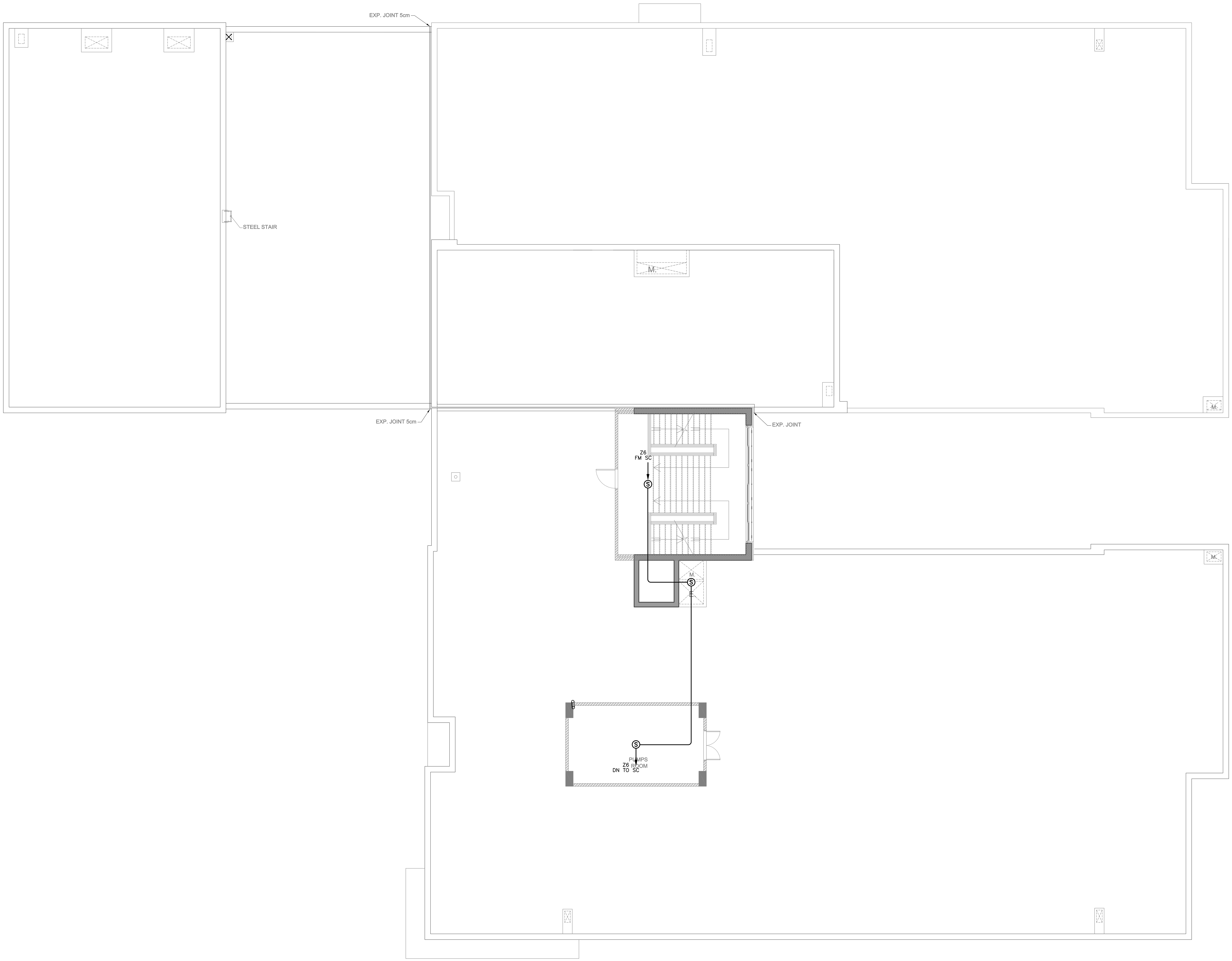
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: SECOND FLOOR PLAN FIRE PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH.	Drawn: CAD	Checked: K.AH.	North :
SCALE : 1:100	Date: JUNE 2020	Approved: W.Z	
DRAWING NUMBER: SKEP 17-FA103			Rev.: 0



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PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
ROOF FLOOR PLAN
FIRE ALARM SYSTEM PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH.	Drawn: CAD	Checked: K.AH.	North :
SCALE :	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-FA104			Rev.: 0

REV.	DATE	REMARKS
1	NOV. 2017	100% SUBMITTAL - REV. (1)
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PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: SITE PLAN LOW CURRENT SYSTEM

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: A.AH.	Drawn: CAD	Checked: K.AH.	North :
SCALE :	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-TL100			Rev.: 1

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PHASE III

PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: GROUND FLOOR PLAN LOW CURRENT PLAN

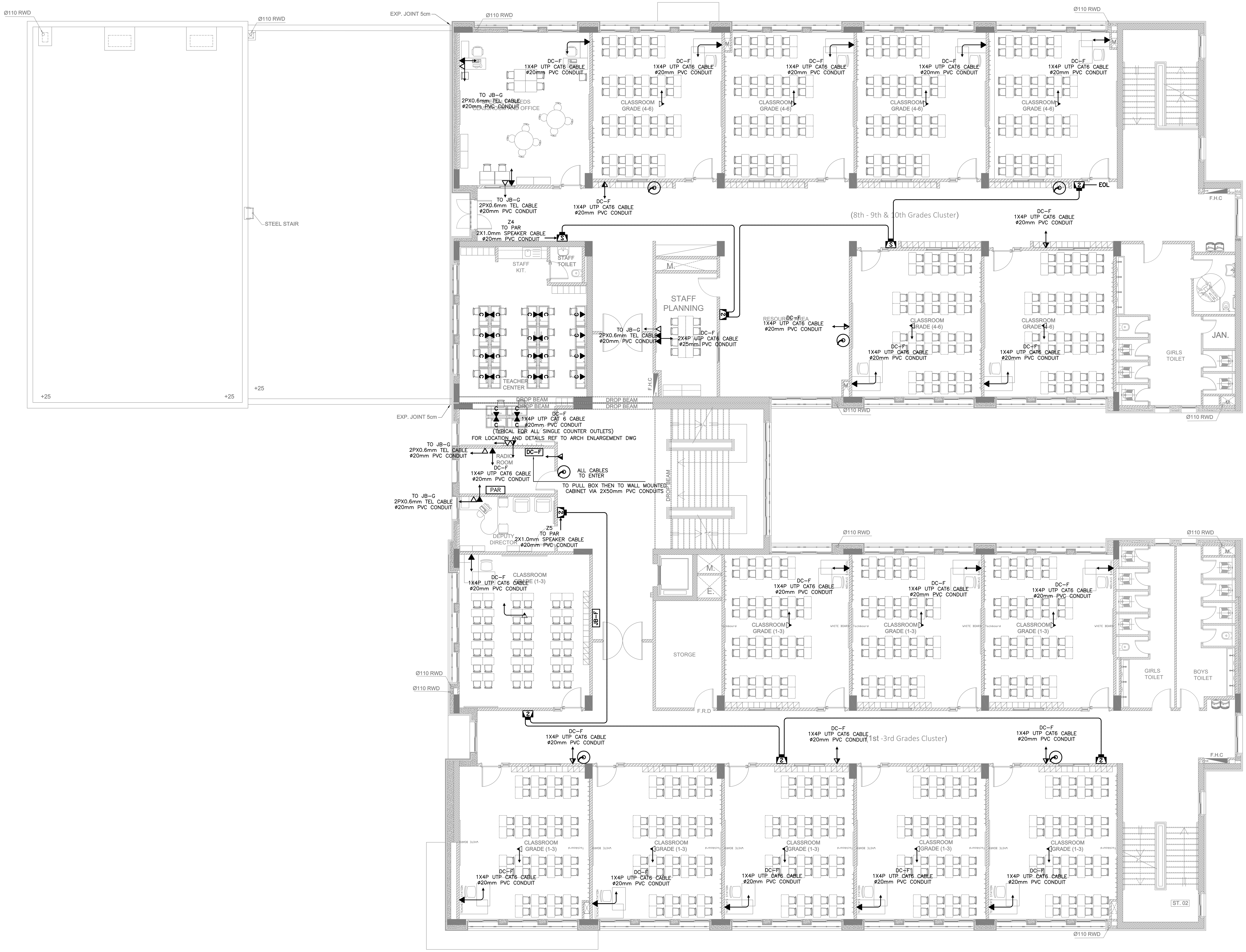
PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
A.AH.	CAD	K.AH.
SCALE: 1:100	Date: JUNE 2020	Approved: W.Z.

DRAWING NUMBER: SKEP 17-TL101

Rev.: 0

North :



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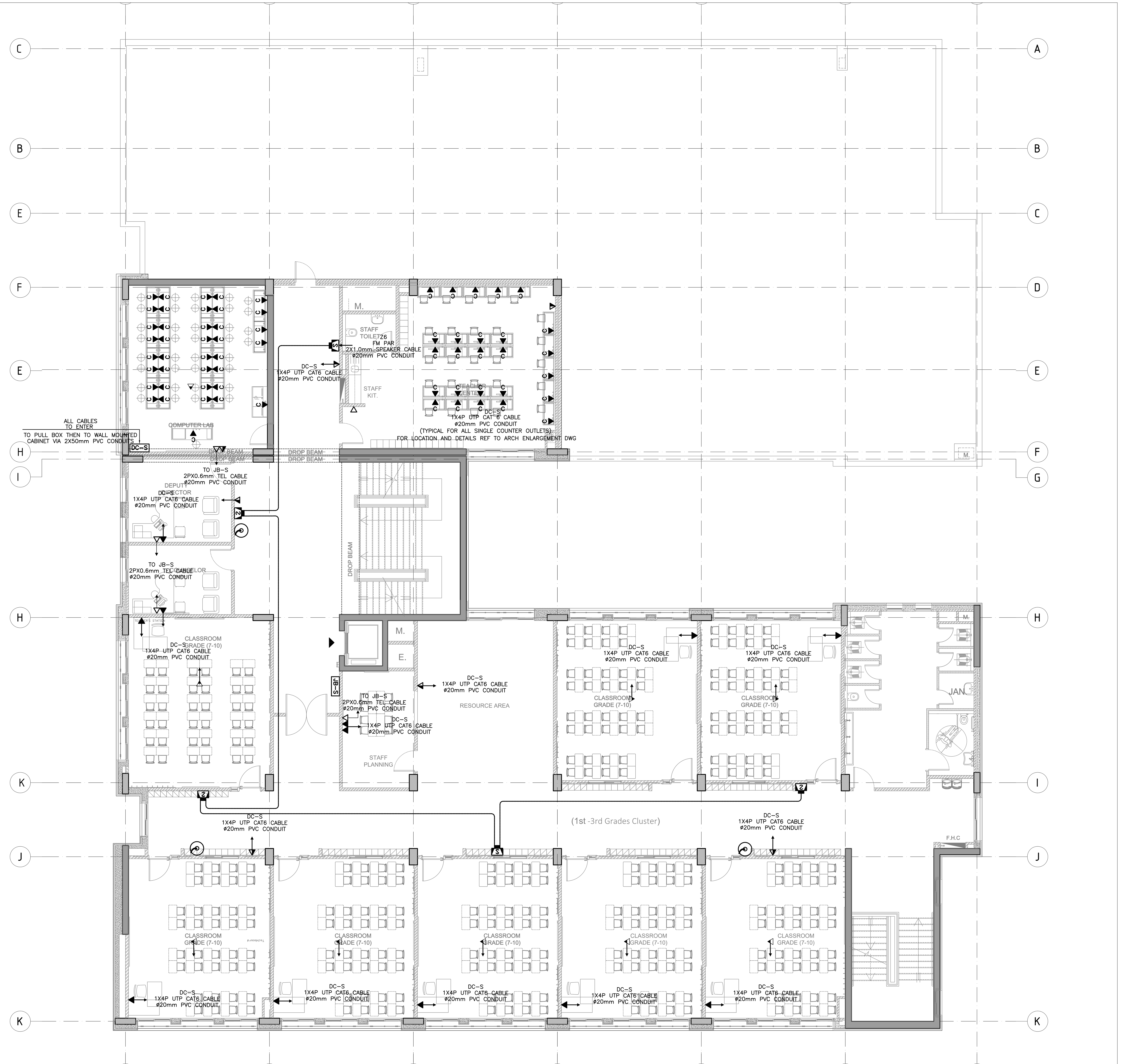
KHADIJA BINT KHWAILED BASIC
(AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: FIRST FLOOR PLAN LOW CURRENT PLAN	Design: A.AH.	Drawn: CAD	Checked: K.AH.
	SCALE: 1:100	Date: JUNE 2020	Approved: W.Z
PLOT No: 696	LOCATION: Southern Shouneh	BASIN NO: 35 AL SAKNH	
DRAWING NUMBER: SKEP 17-TL102			Rev.: 0

North :



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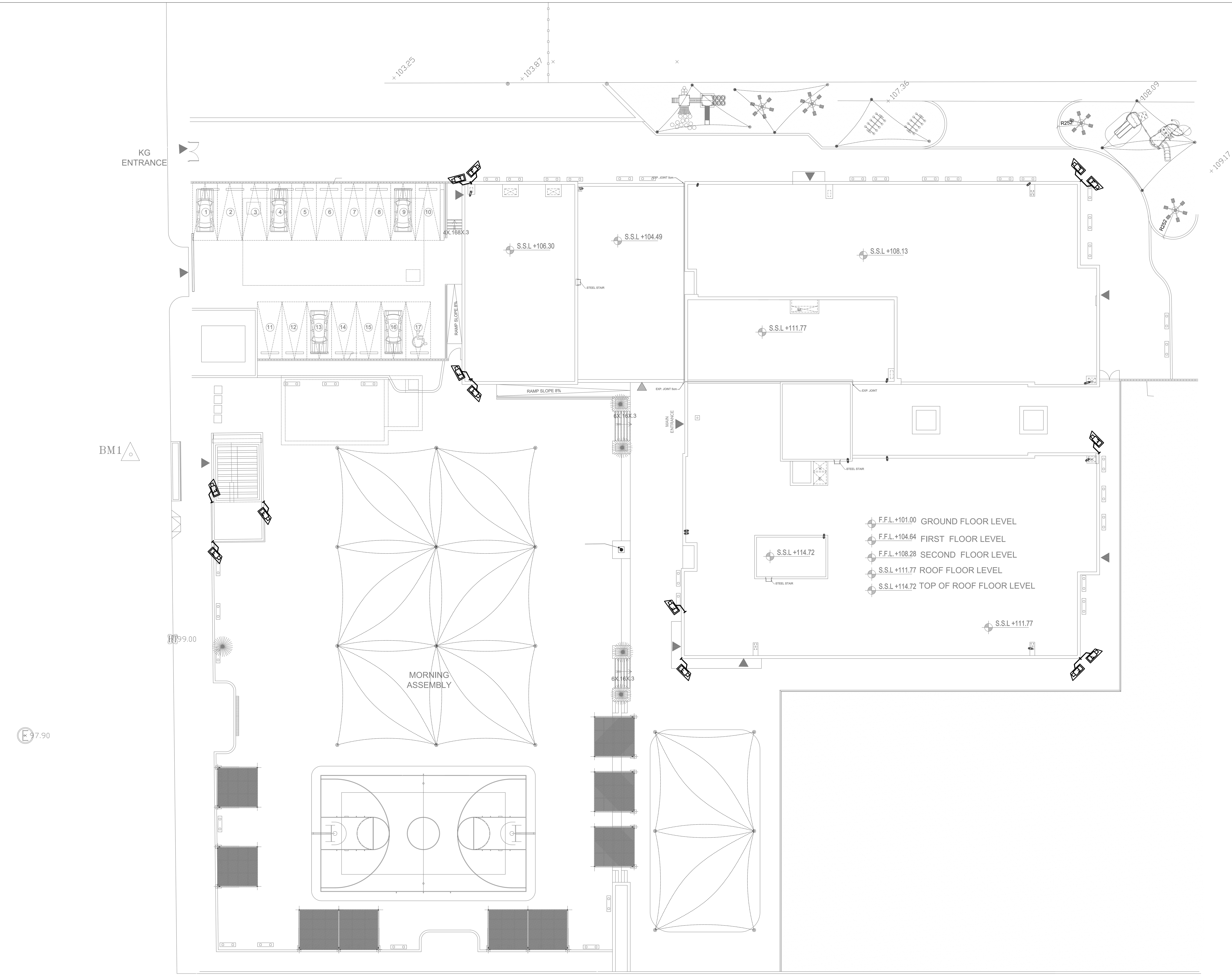
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:	SECOND FLOOR PLAN LOW CURRENT PLAN
PLOT No	696
LOCATION	Southern Shouneh
BASIN NO	35 AL SAKNH
Design:	A.AH.
Drawn:	CAD
Checked:	K.AH.
SCALE:	1:100
Date:	JUNE 2020
Approved:	W.Z
DRAWING NUMBER:	SKEP 17-TL103
Rev.:	0
North:	



REV.	DATE	REMARKS
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PACKAGE 1

KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: SITE PLAN SECURITY SYSTEM PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: M.A | Drawn: CAD | Checked: K.AH | North:

SCALE: | Date: JUNE 2020 | Approved: W.Z.

DRAWING NUMBER: SKEP 17-TS100 | Rev.: 1

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PHASE III

PACKAGE 1

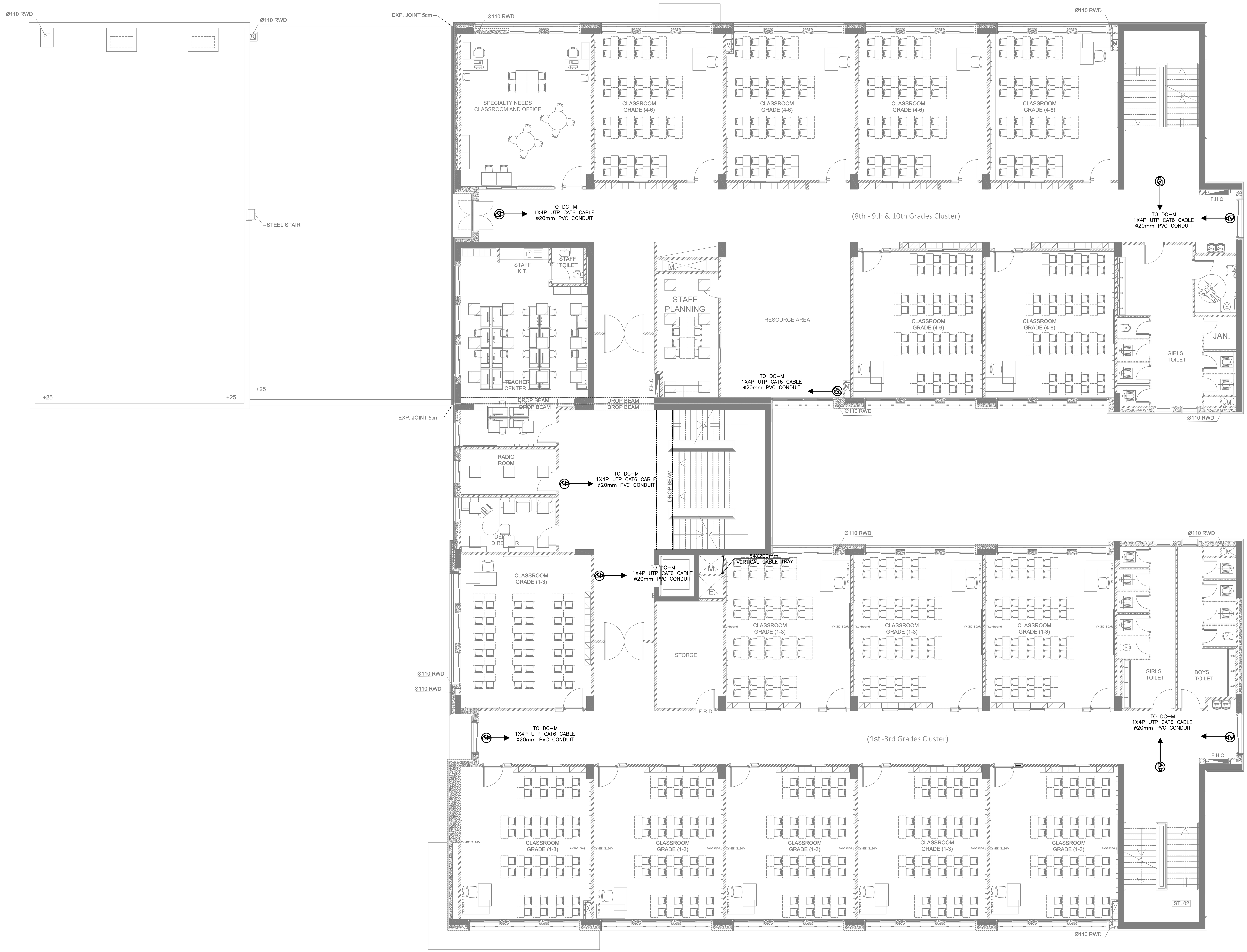
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: GROUND FLOOR PLAN SECURITY PLAN

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design: M.A
Drawn: CAD
Checked: K.AH
SCALE :
Date: JUNE 2020
Approved: W.Z.
North :
DRAWING NUMBER: SKEP 17-TS101
Rev.: 0



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KHADIJA BINT KHWAILED BASIC
(AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:			Design: M.A	Drawn: CAD	Checked: K.AH	North :
FIRST FLOOR PLAN SECURITY PLAN			SCALE : 1:100	Date: JUNE 2020	Approved: W.Z	
PLOT No	LOCATION	BASIN NO	DRAWING NUMBER: SKEP 17-TS102			Rev.: 0
696	Southern Shouneh	35 AL SAKNH				

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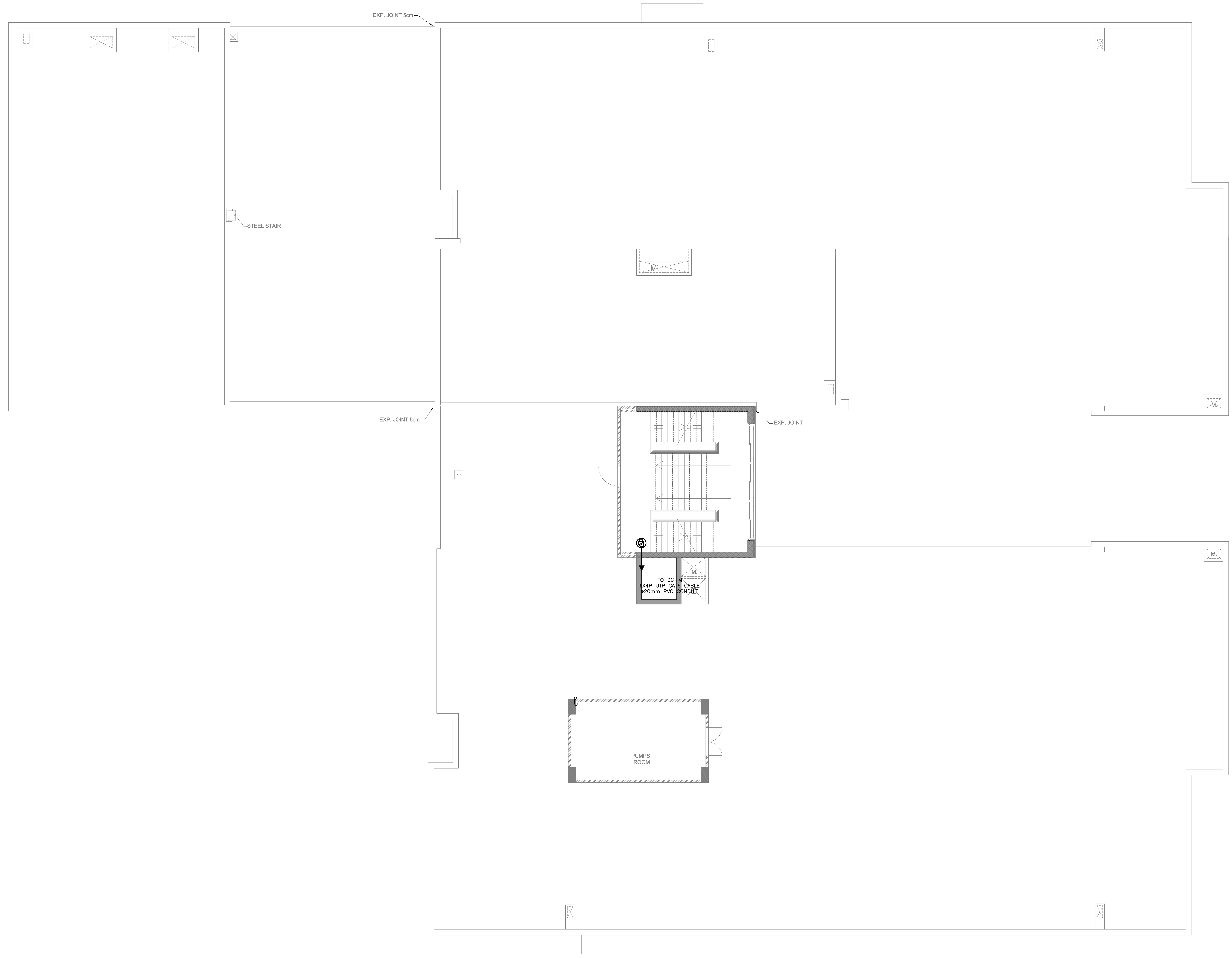
KHADIJA BINT KHWAILED BASIC
(AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:			Design:	Drawn:	Checked:	North :
SECOND FLOOR PLAN SECURITY PLAN			M.A	CAD	K.AH	
			SCALE : 1:100	Date: JUNE 2020	Approved: W.Z	
PLOT No	LOCATION	BASIN NO	DRAWING NUMBER:			Rev.:
696	Southern Shouneh	35 AL SAKNH	SKEP 17-TS103			0



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PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)	DRAWING NAME: ROOF FLOOR PLAN SECURITY SYSTEM PLAN	
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)	PLOT No: 696	LOCATION: Southern Shouneh
		BASIN NO: 35 AL SAKNH	

Design: M.A	Drawn: CAD	Checked: K.AH	North :
SCALE :	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-TS104			Rev.: 0

PANEL NAME :DB-GL1 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION : GROUND FLOOR

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	560			1	10	3X2.5	20	X			20	3X2.5	10	10	400			LIGHTING	L10
L2	LIGHTING		480		2	10	3X2.5	20		X		20	3X2.5	10	11		340		LIGHTING	L11
L3	LIGHTING			600	3	10	3X2.5	20			X	20	3X2.5	10	12			400	LIGHTING	L12
L4	LIGHTING	600			4	10	3X2.5	20	X			20	3X2.5	10	13	200			LIGHTING	L13
L5	LIGHTING		560		5	10	3X2.5	20		X		20	3X2.5	10	14		300		LIGHTING	L14
L6	LIGHTING			450	6	10	3X2.5	20			X	20	3X2.5	10	15			390	LIGHTING	L15
L7	LIGHTING	400			7	10	3X2.5	20	X			20	3X2.5	10	16	140			LIGHTING	L16
L8	LIGHTING		340		8	10	3X2.5	20		X		20	3X2.5	10	17				SPARE	
L9	LIGHTING			400	9	10	3X2.5	20			X	20	3X2.5	10	18				SPARE	
CONNECTED LOAD (W)		1560	1380	1450												740	640	790	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	2300
TOTAL CONNECTED LOAD "Y"	2020
TOTAL CONNECTED LOAD"B"	2240
TOTAL CONNECTED LOAD(KW)	6.56
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	5.25
DESIGN CURRENT	8.92

CABLE SIZE: (4X10)mm2 CU/XLPE/PVC+(1X10)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-GL2 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION : GROUND FLOOR (ELECTRICAL ROOM)

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	360			1	10	3X2.5	20	X			20	3X2.5	10	7	1000			LIGHTING	L7
L2	LIGHTING		170		2	10	3X2.5	20		X		20	3X2.5	10	8		1080		LIGHTING	L8
L3	LIGHTING			400	3	10	3X2.5	20			X	20	3X2.5	10	9			540	LIGHTING	L9
L4	LIGHTING	570			4	10	3X2.5	20	X			20	3X2.5	10	10	390			LIGHTING	L10
L5	LIGHTING		720		5	10	3X2.5	20		X		20	3X2.5	10	11		140		LIGHTING	P11
L6	LIGHTING			1000	6	10	3X2.5	20			X	20	3X2.5	10	12			60	LIGHTING	P12
CONNECTED LOAD (W)		930	890	1400												1390	1220	600	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	2320
TOTAL CONNECTED LOAD "Y"	2110
TOTAL CONNECTED LOAD"B"	2000
TOTAL CONNECTED LOAD(KW)	6.43
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	5.14
DESIGN CURRENT	8.74

CABLE SIZE: (4X10)mm2 CU/XLPE/PVC+(1X10)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-GP1 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION: GROUND FLOOR

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
P1	SOCKET OUTLET	600			1	16	3X4.0	20	X			20	3X4.0	16	16	1200			SOCKET OUTLET	P16
P2	SOCKET OUTLET		1400		2	16	3X4.0	20		X		20	3X4.0	16	17		800		SOCKET OUTLET	P17
P3	SOCKET OUTLET			1600	3	16	3X4.0	20			X	20	3X4.0	16	18			1000	SOCKET OUTLET	P18
P4	SOCKET OUTLET	1000			4	16	3X4.0	20	X			20	3X4.0	20	19	300			E.X.F	P19
P5	SOCKET OUTLET		800		5	16	3X4.0	20		X		20	3X4.0	20	20		1200		WATER HEATER	P20
P6	SOCKET OUTLET			800	6	16	3X4.0	20			X	20	3X4.0	20	21			1200	WATER HEATER	P21
P7	SOCKET OUTLET	800			7	16	3X4.0	20	X			20	3X4.0	20	22	200			E.X.F	P22
P8	SOCKET OUTLET		800		8	16	3X4.0	20		X		20	3X4.0	20	23		1200		WATER HEATER	P23
P9	SOCKET OUTLET			1000	9	16	3X4.0	20			X	20	3X4.0	20	24			200	E.X.F	P24
P10	SOCKET OUTLET	1800			10	16	3X4.0	20	X			20	3X4.0	20	25	1200			WATER HEATER	P25
P11	SOCKET OUTLET		1600		11	16	3X4.0	20		X		20	3X4.0	20	26			2000	P.D.U.	P26
P12	SOCKET OUTLET			1400	12	16	3X4.0	20			X			16	27				SPARE	P27
P13	SOCKET OUTLET	1800			13	16	3X4.0	20	X					16	28				SPARE	P28
P14	SOCKET OUTLET		1600		14	16	3X4.0	20		X				20	29				SPARE	P29
P15	SOCKET OUTLET			1800	15	16	3X4.0	20			X			20	30				SPARE	P30
CONNECTED LOAD (W)		6000	6200	6600												2900	3200	4400	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	8900
TOTAL CONNECTED LOAD "Y"	9400
TOTAL CONNECTED LOAD"B"	11000
TOTAL CONNECTED LOAD(KW)	29.30
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	23.44
DESIGN CURRENT	39.85

CABLE SIZE: (4X16)mm2 CU/XLPE/PVC+(1X16)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-GP2 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION: GROUND FLOOR (ELECTRICAL ROOM)

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
P1	SOCKET OUTLET	600			1	16	3X4.0	20	X			20	3X4.0	16	19	1000			SOCKET OUTLET	P19
P2	SOCKET OUTLET		1400		2	16	3X4.0	20		X		20	3X4.0	16	20		1600		SOCKET OUTLET	P20
P3	SOCKET OUTLET			1000	3	16	3X4.0	20			X	20	3X4.0	16	21			1600	SOCKET OUTLET	P21
P4	SOCKET OUTLET	1400			4	16	3X4.0	20	X			20	3X4.0	16	22	1800			SOCKET OUTLET	P22
P5	SOCKET OUTLET		800		5	16	3X4.0	20		X		20	3X4.0	16	23		600		SOCKET OUTLET	P23
P6	SOCKET OUTLET			800	6	16	3X4.0	20			X	20	3X4.0	16	24			1000	SOCKET OUTLET	P24
P7	SOCKET OUTLET	1000			7	16	3X4.0	20	X			20	3X4.0	20	25	200			SOCKET OUTLET	P25
P8	SOCKET OUTLET		1600		8	16	3X4.0	20		X		20	3X4.0	16	26		300		E.X.F	P26
P9	SOCKET OUTLET			1600	9	16	3X4.0	20			X	20	3X4.0	20	27			1200	WATER HEATER	P27
P10	SOCKET OUTLET	1200			10	16	3X4.0	20	X			20	3X4.0	20	28	1200			WATER HEATER	P28
P11	SOCKET OUTLET		1600		11	16	3X4.0	20		X		20	3X4.0	20	29		1200		WATER HEATER	P29
P12	SOCKET OUTLET			1200	12	16	3X4.0	20			X	20	3X4.0	20	30			300	E.X.F	P30
P13	SOCKET OUTLET	800			13	16	3X4.0	20	X			20	3X4.0	20	31	1200			WATER HEATER	P31
P14	SOCKET OUTLET		1600		14	16	3X4.0	20		X		20	3X4.0	20	32		300		E.X.F	P32
P15	SOCKET OUTLET			1600	15	16	3X4.0	20			X	20	3X4.0	20	33			200	POWER POINT	P33
P16	SOCKET OUTLET	1000			16	16	3X4.0	20	X			20	3X4.0	16	34	2000			ROLLER SHUTTER	P34
P17	SOCKET OUTLET		1000		17	16	3X4.0	20		X				16	35				SPARE	P35
P18	SOCKET OUTLET			1000	18	16	3X4.0	20			X			20	36				SPARE	P36
CONNECTED LOAD (W)		6000	8000	7200												7400	4000	4300	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	13400
TOTAL CONNECTED LOAD "Y"	12000
TOTAL CONNECTED LOAD"B"	11500
TOTAL CONNECTED LOAD(KW)	36.90
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	29.52
DESIGN CURRENT	50.18

CABLE SIZE: (4X16)mm2 CU/XLPE/PVC+(1X16)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-F1 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION: FIRST FLOOR

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	640			1	10	3X2.5	20	X			20	3X4.0	16	19	600			SOCKET OUTLET	P11
L2	LIGHTING		640		2	10	3X2.5	20		X		20	3X4.0	16	20		600		SOCKET OUTLET	P12
L3	LIGHTING			640	3	10	3X2.5	20			X	20	3X4.0	16	21			1600	SOCKET OUTLET	P13
L4	LIGHTING	640			4	10	3X2.5	20	X			20	3X4.0	16	22	1600			SOCKET OUTLET	P14
L5	LIGHTING		440		5	10	3X2.5	20		X		20	3X4.0	16	23		1600		SOCKET OUTLET	P15
L6	LIGHTING			640	6	10	3X2.5	20			X	20	3X4.0	16	24			1600	SOCKET OUTLET	P16
L7	LIGHTING	330			7	10	3X2.5	20	X			20	3X4.0	16	25	1600			SOCKET OUTLET	P17
L8	LIGHTING		330		8	10	3X2.5	20		X		20	3X4.0	16	26		1600		SOCKET OUTLET	P18
P1	SOCKET OUTLET			1200	9	10	3X2.5	20			X	20	3X4.0	16	27			1000	WATER HEATER	P19
P2	SOCKET OUTLET	600			10	10	3X2.5	20	X			20	3X4.0	16	28	800			WATER HEATER	P20
P3	SOCKET OUTLET		1800		11	10	3X4.0	20		X		20	3X4.0	16	29		1200		WATER HEATER	P21
P4	SOCKET OUTLET			1800	12	10	3X4.0	20			X	20	3X4.0	20	30			200	E.X.F	P22
P5	SOCKET OUTLET	1800			13	16	3X4.0	20	X			20	3X4.0	20	31	1200			WATER HEATER	P23
P6	SOCKET OUTLET		1800		14	16	3X4.0	20		X				16	32				SPARE	
P7	SOCKET OUTLET			1800	15	16	3X4.0	20			X			16	33				SPARE	
P8	SOCKET OUTLET	1800			16	16	3X4.0	20	X					16	34				SPARE	
P9	SOCKET OUTLET		1400		17	16	3X4.0	20		X				20	35				SPARE	
P10	SOCKET OUTLET			800	18	16	3X4.0	20			X			20	36				SPARE	
CONNECTED LOAD (W)		5810	6410	6880												5800	5000	4400	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	11610
TOTAL CONNECTED LOAD "Y"	11410
TOTAL CONNECTED LOAD"B"	11280
TOTAL CONNECTED LOAD(KW)	34.30
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	27.44
DESIGN CURRENT	46.65

CABLE SIZE: (4X25)mm2 CU/XLPE/PVC+(1X16)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-F2 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION: FIRST FLOOR

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	780			1	10	3X2.5	20	X			20	3X4.0	16	16	1800			SOCKET OUTLET	P8
L2	LIGHTING		560		2	10	3X2.5	20		X		20	3X4.0	16	17		1800		SOCKET OUTLET	P9
L3	LIGHTING			640	3	10	3X2.5	20			X	20	3X4.0	16	18			1800	SOCKET OUTLET	P10
L4	LIGHTING	640			4	10	3X2.5	20	X			20	3X4.0	16	19	1800			SOCKET OUTLET	P11
L5	LIGHTING		320		5	10	3X2.5	20		X		20	3X4.0	16	20		800		SOCKET OUTLET	P12
L6	LIGHTING			320	6	10	3X2.5	20			X	20	3X4.0	16	21			800	SOCKET OUTLET	P13
L7	LIGHTING	500			7	10	3X2.5	20	X			20	3X4.0	16	22	800			SOCKET OUTLET	P14
L8	LIGHTING		490		8	10	3X2.5	20		X		20	3X4.0	20	23		1200		WATER HEATER	P15
P1	SOCKET OUTLET			1400	9	16	3X4.0	20			X			10	24				SPARE	P19
P2	SOCKET OUTLET	1000			10	16	3X4.0	20	X					10	25				SPARE	P20
P3	SOCKET OUTLET		1800		11	16	3X4.0	20		X				10	26				SPARE	P21
P4	SOCKET OUTLET			1800	12	16	3X4.0	20			X			16	27				SPARE	P22
P5	SOCKET OUTLET	1800			13	16	3X4.0	20	X					16	28				SPARE	P23
P6	SOCKET OUTLET		1800		14	16	3X4.0	20		X				16	29				SPARE	P24
P7	SOCKET OUTLET			1800	15	16	3X4.0	20	X					20	30				SPARE	P26
CONNECTED LOAD (W)		4720	4970	5960												4400	3800	2600	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	9120
TOTAL CONNECTED LOAD "Y"	8770
TOTAL CONNECTED LOAD"B"	8560
TOTAL CONNECTED LOAD(KW)	26.45
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	21.16
DESIGN CURRENT	35.97

CABLE SIZE: (4X16)mm2 CU/XLPE/PVC+(1X16)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-S | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION: SECOND FLOOR

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	480			1	10	3X2.5	20	X			20	3X4.0	16	22	1000			SOCKET OUTLET	P10
L2	LIGHTING		800		2	10	3X2.5	20		X		20	3X4.0	16	23		1800		SOCKET OUTLET	P11
L3	LIGHTING			640	3	10	3X2.5	20			X	20	3X4.0	16	24			1800	SOCKET OUTLET	P12
L4	LIGHTING	640			4	10	3X2.5	20	X			20	3X4.0	16	25	1800			SOCKET OUTLET	P13
L5	LIGHTING		640		5	10	3X2.5	20		X		20	3X4.0	16	26		1800		SOCKET OUTLET	P14
L6	LIGHTING			640	6	10	3X2.5	20			X	20	3X4.0	16	27			1800	SOCKET OUTLET	P15
L7	LIGHTING	320			7	10	3X2.5	20	X			20	3X4.0	16	28	1800			SOCKET OUTLET	P16
L8	LIGHTING		460		8	10	3X2.5	20		X		20	3X4.0	16	29		1800		SOCKET OUTLET	P17
L9	LIGHTING			640	9	10	3X2.5	20			X	20	3X4.0	16	30			1800	SOCKET OUTLET	P18
L10	LIGHTING	200			10	10	3X2.5	20	X			20	3X4.0	16	31	1800			SOCKET OUTLET	P19
L11	LIGHTING		330		11	10	3X2.5	20		X		20	3X4.0	16	32		1000		SOCKET OUTLET	P20
L12	LIGHTING			160	12	10	3X2.5	20			X	20	3X4.0	16	33			1000	SOCKET OUTLET	P21
P1	SOCKET OUTLET	1200			13	16	3X4.0	20	X			20	3X4.0	16	34	1000			SOCKET OUTLET	P22
P2	SOCKET OUTLET		800		14	16	3X4.0	20		X		20	3X4.0	20	35		1200		WATER HEATER	P23
P3	SOCKET OUTLET			2000	15	16	3X4.0	20			X	20	3X4.0	20	36			1200	WATER HEATER	P24
P4	SOCKET OUTLET	1600			16	16	3X4.0	20	X			20	3X4.0	16	37	600			SOCKET OUTLET	P25
P5	SOCKET OUTLET		1600		17	16	3X4.0	20		X				10	38				SPARE	
P6	SOCKET OUTLET			1600	18	16	3X4.0	20			X			10	39				SPARE	P21
P7	SOCKET OUTLET	1600			19	16	3X4.0	20	X					16	40				SPARE	P23
P8	SOCKET OUTLET		2000		20	16	3X4.0	20		X				16	41				SPARE	P24
P9	SOCKET OUTLET			600	21	16	3X4.0	20			X			20	42				SPARE	P26
CONNECTED LOAD (W)		6040	6630	6280												8000	7600	7600	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	14040
TOTAL CONNECTED LOAD "Y"	14230
TOTAL CONNECTED LOAD"B"	13880
TOTAL CONNECTED LOAD(KW)	42.15
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	33.72
DESIGN CURRENT	57.32

CABLE SIZE: (4X25)mm2 CU/XLPE/PVC+(1X16)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DBU | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION : IT SERVER ROOM

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
P1	SOCKET OUTLET	800			1	16	3X4.0	20	X			20	3X4.0	16	10	1000			SOCKET OUTLET	P10
P2	SOCKET OUTLET		600		2	16	3X4.0	20		X		20	3X4.0	16	11		600		SOCKET OUTLET	P11
P3	SOCKET OUTLET			800	3	16	3X4.0	20			X	20	3X4.0	16	12			1200	SOCKET OUTLET	P12
P4	SOCKET OUTLET	1000			4	16	3X4.0	20	X			20	3X4.0	16	13	800			SOCKET OUTLET	P13
P5	SOCKET OUTLET		1200		5	16	3X4.0	20		X		20	3X4.0	16	14		800		SOCKET OUTLET	P14
P6	SOCKET OUTLET			1000	6	16	3X4.0	20			X	20	3X4.0	16	15			1200	SOCKET OUTLET	P15
P7	SOCKET OUTLET	800			7	16	3X4.0	20	X			20	3X4.0	16	16	400			SPARE	P16
P8	SOCKET OUTLET		800		8	16	3X4.0	20		X		20	3X4.0	16	17		800		SPARE	P17
P9	SOCKET OUTLET			800	9	16	3X4.0	20			X			16	18				SPARE	
CONNECTED LOAD (W)		2600	2600	2600												2200	2200	2400	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	4800
TOTAL CONNECTED LOAD "Y"	4800
TOTAL CONNECTED LOAD"B"	5000
TOTAL CONNECTED LOAD(KW)	14.60
DEMAND FACTOR	1
TOTAL DEMAND LOAD(KW)	14.60
DESIGN CURRENT	24.82

CABLE SIZE: (4X10)mm2 CU/XLPE/PVC+(1X10)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-CL1 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION : COMPUTER LAB 1

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	640			1	10	3X2.5	20	X			20	3X4.0	16	10	1600			SOCKET OUTLETS	P9
P1	SOCKET OUTLET		600		2	16	3X4.0	20		X		20	3X4.0	16	11		1600		SOCKET OUTLETS	P10
P2	SOCKET OUTLET			800	3	16	3X4.0	20			X	20	3X4.0	16	12			1600	SOCKET OUTLETS	P11
P3	SOCKET OUTLET	1600			4	16	3X4.0	20	X					10	13				SPARE	
P4	SOCKET OUTLET		1600		5	16	3X4.0	20		X				16	14				SPARE	
P5	SOCKET OUTLET			1600	6	16	3X4.0	20			X			16	15				SPARE	
P6	SOCKET OUTLET	1600			7	16	3X4.0	20	X					16	16				SPARE	
P7	SOCKET OUTLET		1600		8	16	3X4.0	20		X				16	17				SPARE	
P8	SOCKET OUTLET			1600	9	16	3X4.0	20			X			16	18				SPARE	
CONNECTED LOAD (W)		3840	3800	4000												1600	1600	1600	CONNECTED LOAD (W)	

TOTAL CONNECTED LOAD"R"	5440
TOTAL CONNECTED LOAD "Y"	5400
TOTAL CONNECTED LOAD"B"	5600
TOTAL CONNECTED LOAD(KW)	16.44
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	13.15
DESIGN CURRENT	22.36

CABLE SIZE: (4X10)mm2 CU/XLPE/PVC+(1X10)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-CL2 | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION : COMPUTER LAB 2

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	640			1	10	3X2.5	20	X			20	3X4.0	16	10	1600			SOCKET OUTLETS	P9
P1	SOCKET OUTLET		600		2	16	3X4.0	20		X		20	3X4.0	16	11		1600		SOCKET OUTLETS	P10
P2	SOCKET OUTLET			800	3	16	3X4.0	20			X	20	3X4.0	16	12			1600	SOCKET OUTLETS	P11
P3	SOCKET OUTLET	1600			4	16	3X4.0	20	X					16	13				SPARE	
P4	SOCKET OUTLET		1600		5	16	3X4.0	20		X				16	14				SPARE	
P5	SOCKET OUTLET			1600	6	16	3X4.0	20			X			16	15				SPARE	
P6	SOCKET OUTLET	1600			7	16	3X4.0	20	X					16	16				SPARE	
P7	SOCKET OUTLET		1600		8	16	3X4.0	20		X				16	17				SPARE	
P8	SOCKET OUTLET			1600	9	16	3X4.0	20			X			16	18				SPARE	
CONNECTED LOAD (W)		3840	3800	4000												1600	1600	1600	CONNECTED LOAD (W)	

TOTAL CONNECTED LOAD"R"	5440
TOTAL CONNECTED LOAD "Y"	5400
TOTAL CONNECTED LOAD"B"	5600
TOTAL CONNECTED LOAD(KW)	16.44
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	13.15
DESIGN CURRENT	22.36

CABLE SIZE: (4X10)mm2 CU/XLPE/PVC+(1X10)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

PANEL NAME :DB-VOC | Type: FLUSH MOUNTED | 3PHASE,400v,50Hz,4W&E | PANEL LOCATION : VOCATIONAL LAB

CIRCUIT NO.	Description	phase R (W)	phase Y (W)	phase B (W)	C.B NO.	AMP TRIP	SIZE OF WIRE (mm2)	SIZE OF CONDUIT (mm)	R	Y	B	SIZE OF CONDUIT (mm)	SIZE OF WIRE (mm2)	AMP TRIP	C.B NO.	phase R (W)	phase Y (W)	phase B (W)	Description	CIRCUIT NO.
L1	LIGHTING	1000			1	10	3X2.5	20	X						10	1000				
P1	SOCKET OUTLETS		1400		2	16	3X4.0	20		X		32	5X6.0	32	11		1000		SOCKET OUTLETS	P9
P2	SOCKET OUTLETS			800	3	16	3X4.0	20			X				12			1000		
P3	SOCKET OUTLETS	1500			4	20	3X4.0	20	X						13	1000				
P4	SOCKET OUTLETS		1500		5	20	3X4.0	20		X		32	5X6.0	32	14		1000		SOCKET OUTLETS	P10
P5	SOCKET OUTLETS			1500	6	20	3X4.0	20			X				15			1000		
P6	SOCKET OUTLETS	1500			7	20	3X4.0	20	X					10	16				SPARE	
P7	SOCKET OUTLETS		1500		8	20	3X4.0	20		X				16	17				SPARE	
P8	SOCKET OUTLETS			1500	9	20	3X4.0	20			X			20	18				SPARE	
CONNECTED LOAD (W)		4000	4400	3800												2000	2000	2000	CONNECTED LOAD(W)	

TOTAL CONNECTED LOAD"R"	6000
TOTAL CONNECTED LOAD "Y"	6400
TOTAL CONNECTED LOAD"B"	5800
TOTAL CONNECTED LOAD(KW)	18.20
DEMAND FACTOR	0.8
TOTAL DEMAND LOAD(KW)	14.56
DESIGN CURRENT	24.75

CABLE SIZE: (4X10)mm2 CU/XLPE/PVC+(1X10)mm2 Earthing Conductor
FED FROM: MDB
BREAKER SIZE: 100A ISOLATOR.

REV.	DATE	REMARKS
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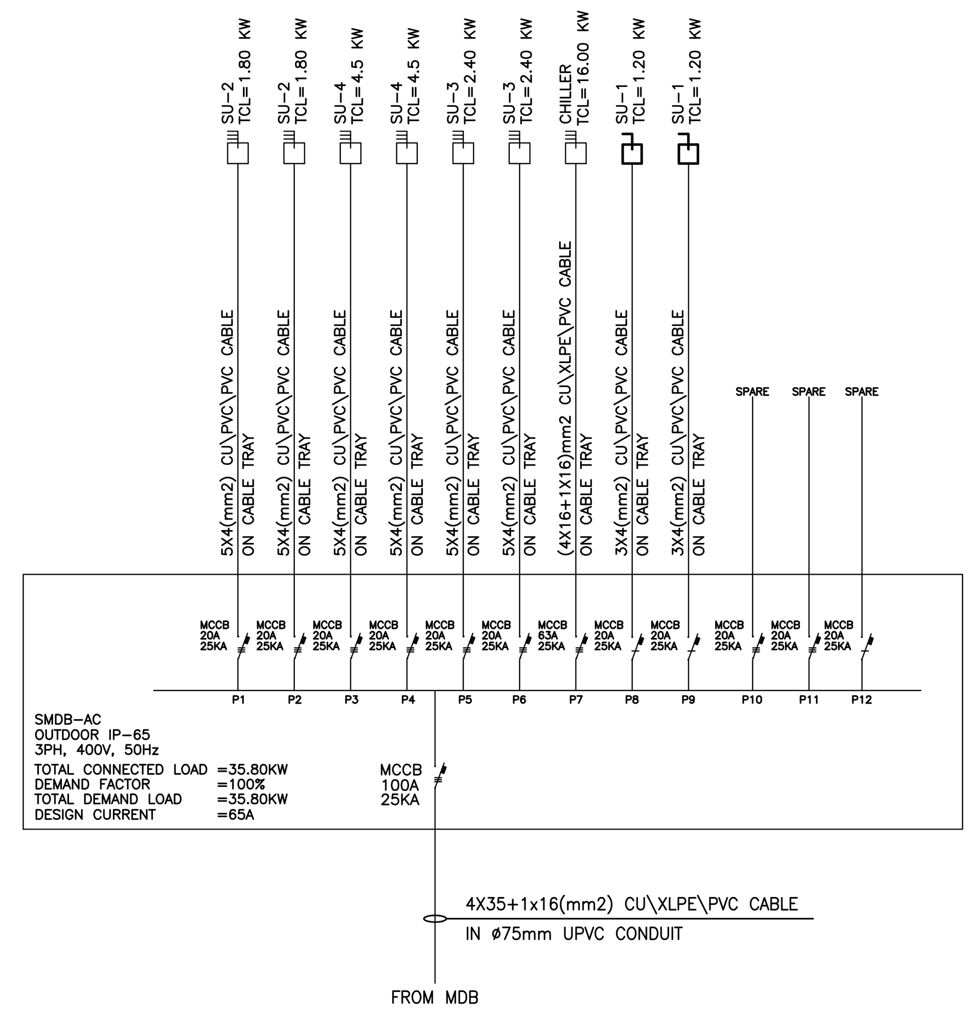
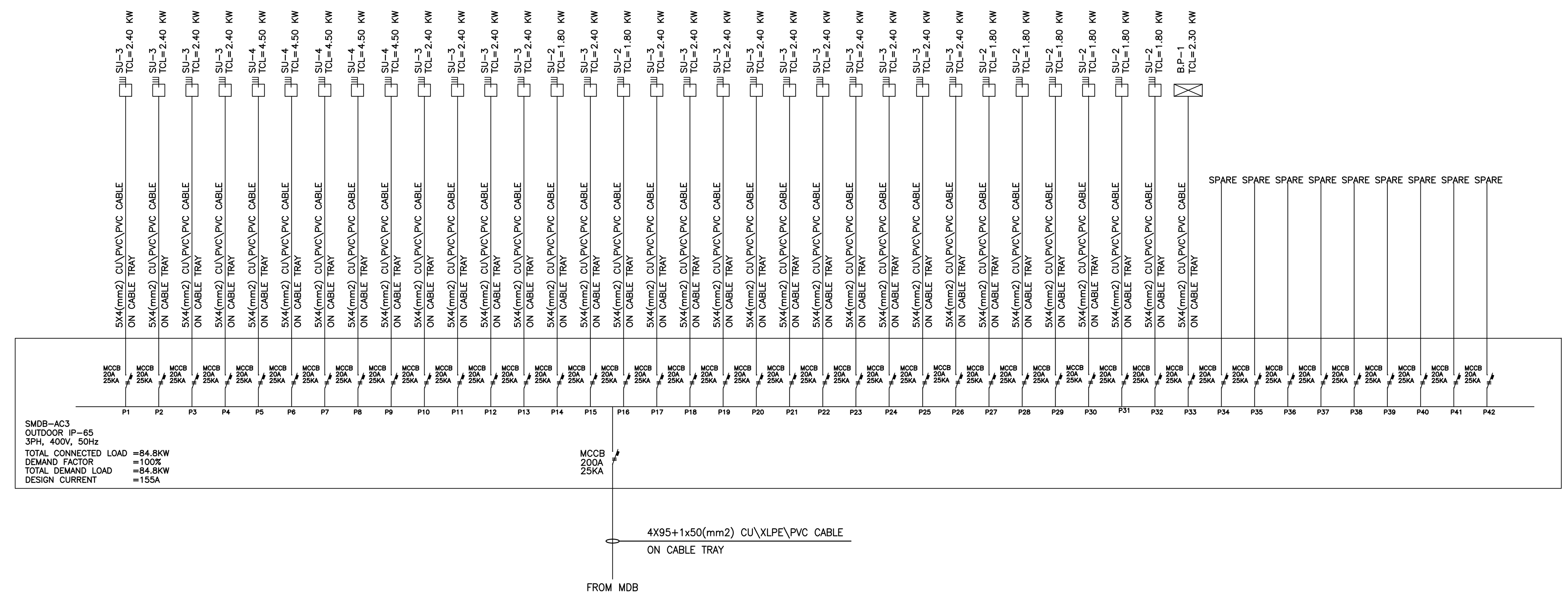
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

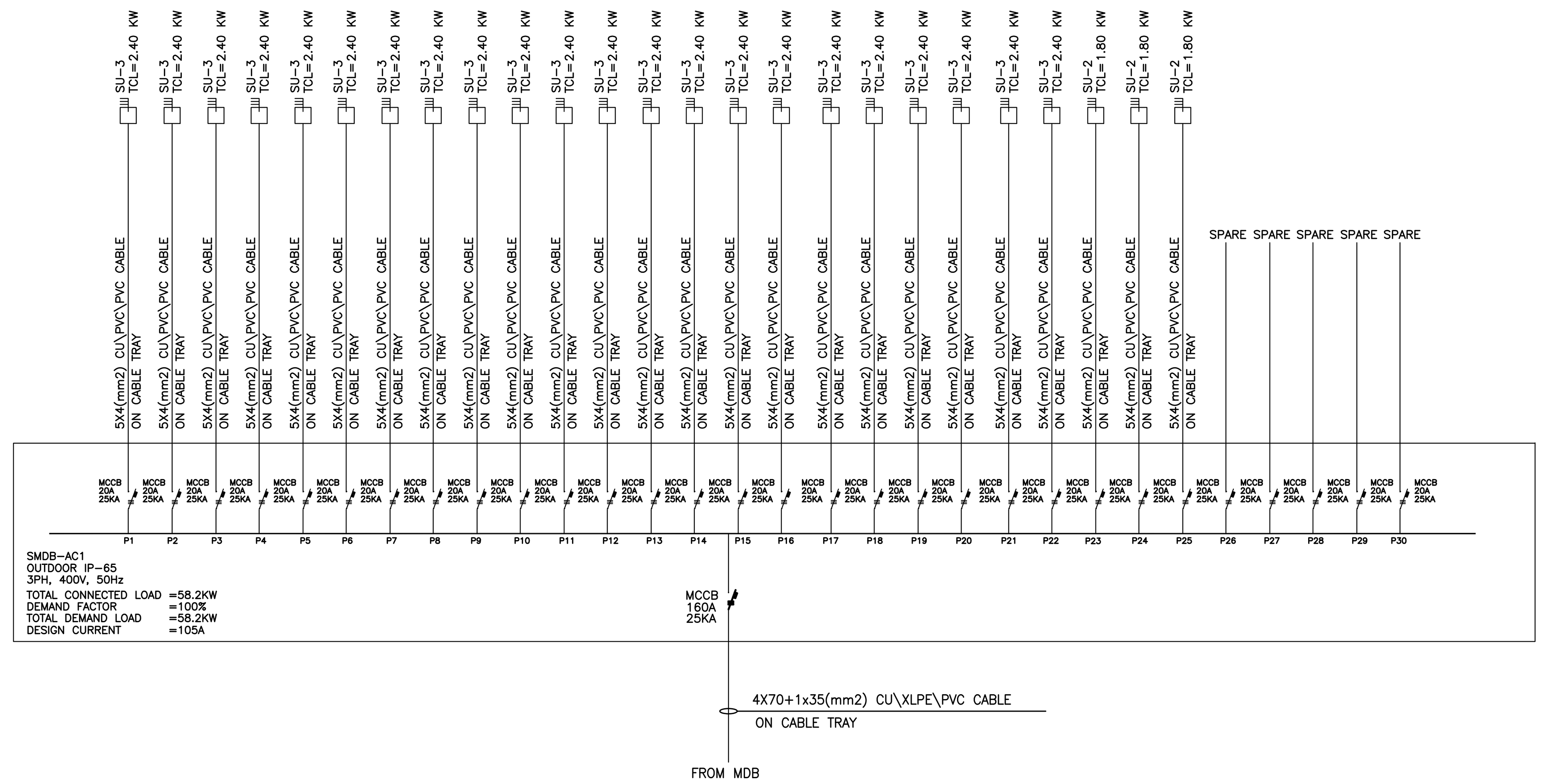
DRAWING NAME: POWER SYSTEMS DISTRIBUTION BOARD - 1

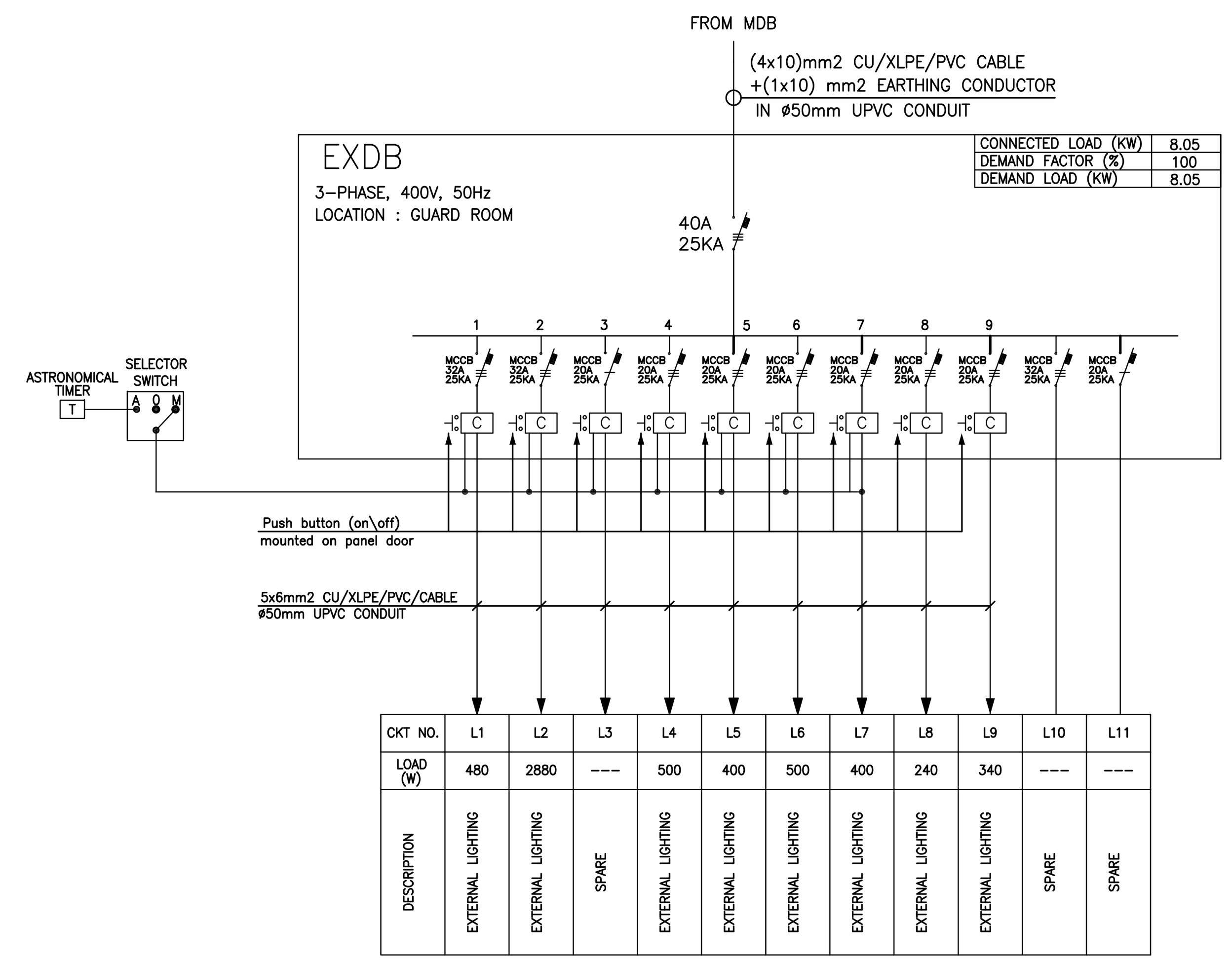
PLOT No: 696 | LOCATION: Southern Shouneh | BASIN NO: 35 AL SAKNH

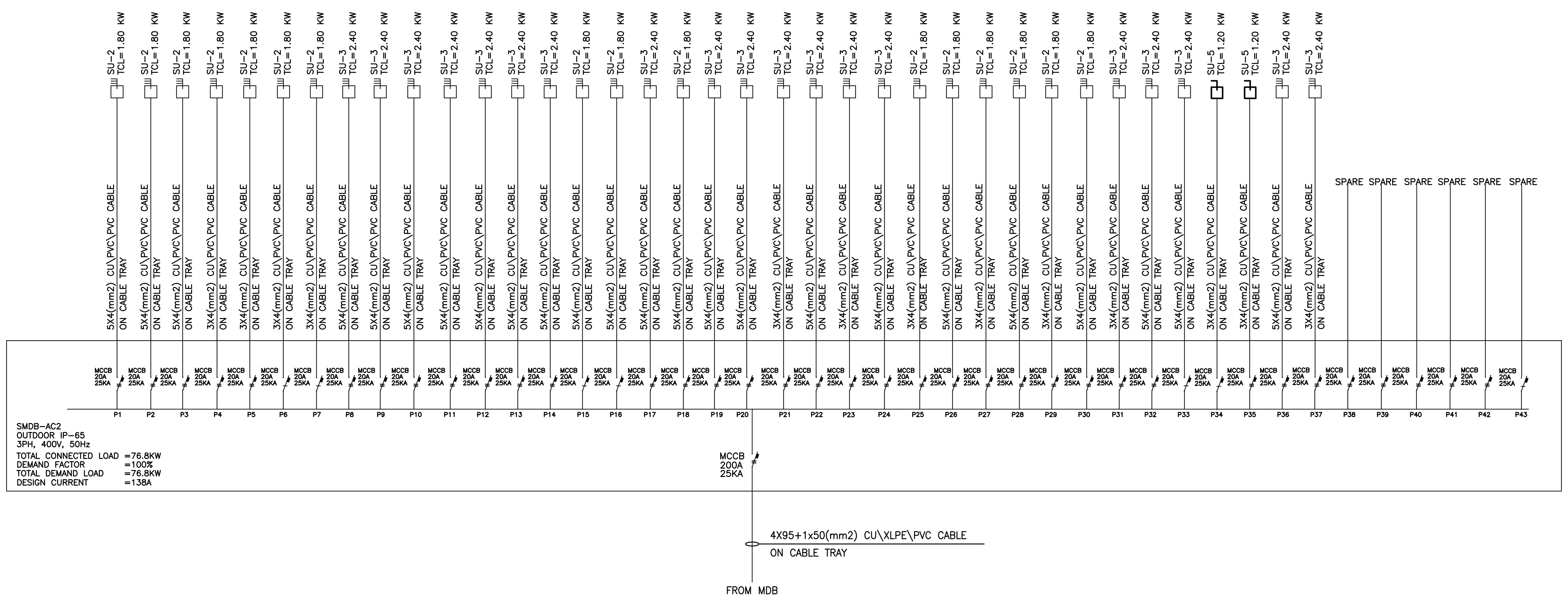
Design: A.AH. | Drawn: CAD | Checked: K.AH. | North :
SCALE : | Date: JUNE 2020 | Approved: W.Z.
DRAWING NUMBER: SKEP 17-ED 601 | Rev.: 0











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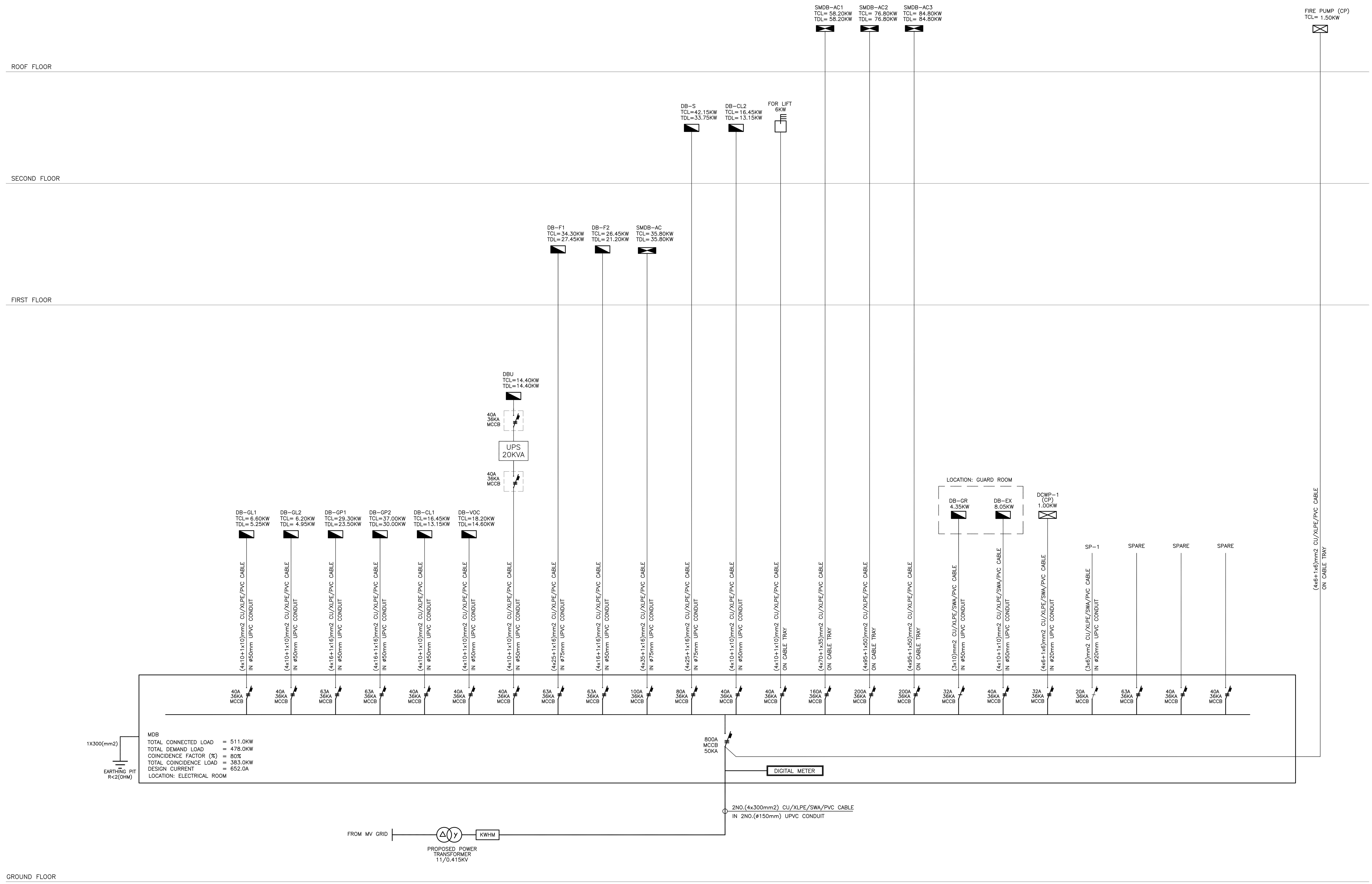
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: POWER SYSTEMS DISTRIBUTION BOARD - 2

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:	North:
A.AH.	CAD	K.AH.	
SCALE:	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-ED 602			Rev.: 0



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0	JUNE 2020	VOL. IV - TENDER DRAWINGS

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KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: POWER SYSTEMS SINGLE LINE DIAGRAM

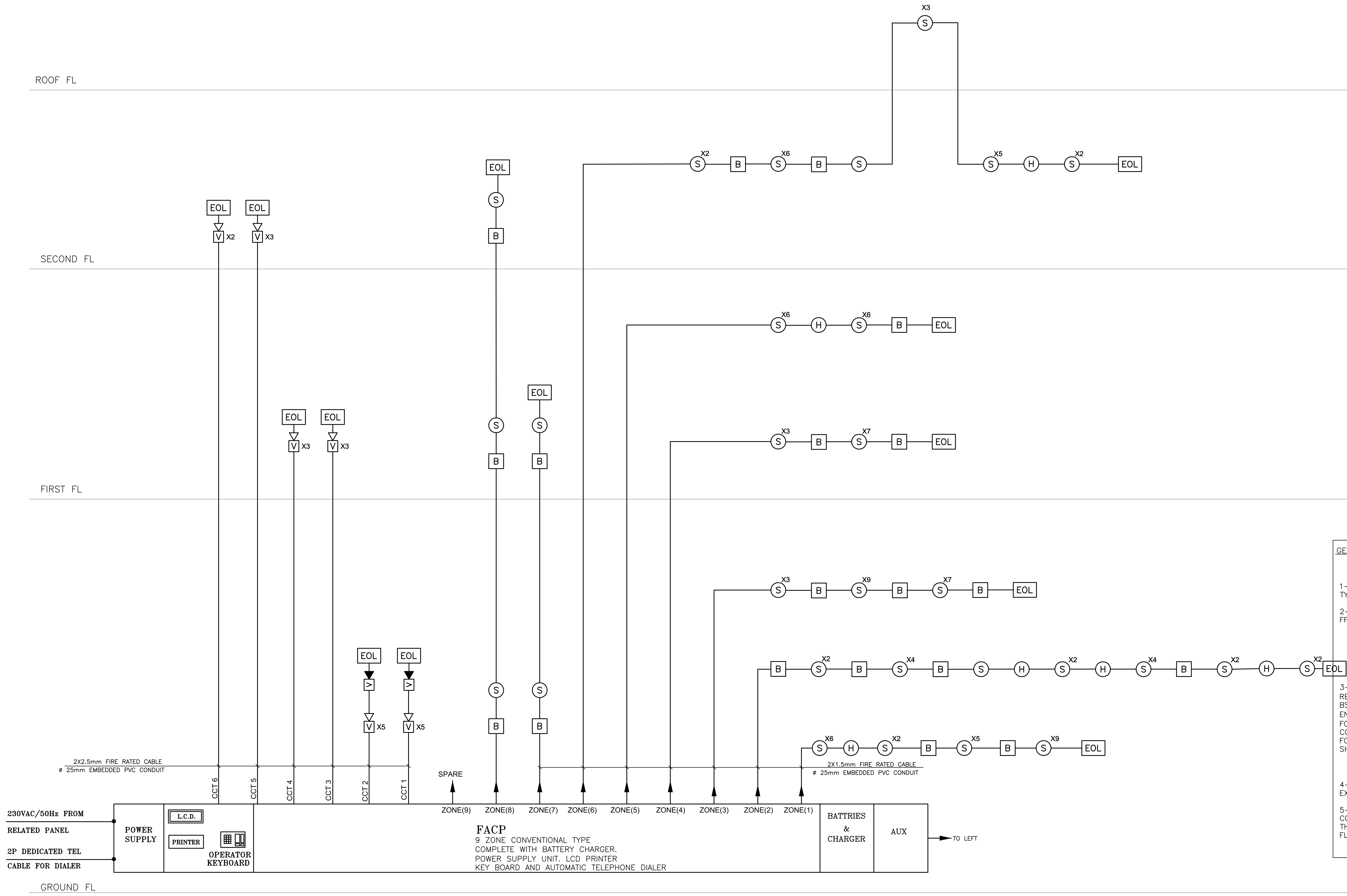
PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
M.A.	CAD	K.AH.
SCALE :	Date: JUNE 2020	Approved: W.Z.

North :

DRAWING NUMBER: SKEP 17-EP 601

Rev.: 0



GENERAL NOTES :

1– THE FIRE ALARM SYSTEM IS CONVENTIONAL TYPE.

2– THE INSTALLATION HEIGHT OF DEVICES ABOVE FFL AS SHOWN:
– FIRE ALARM PANEL: 1.60 m.OR AT LIGHTING SWITCH LEVEL
– BREAK GLASS: 1.35 m.
– ALARM FLASHER AND SIREN: 2.25 m.

3– THE WIRING OF FIRE ALARM DEVICES IS FIRE RESISTANCE CABLES (MEETS CATEGORIES C TO BS6387 STANDARD , AND TESTED AS PER BS EN 50200 PH120 STANDARD) (950 DEG.C TESTED FOR 120MIN.) INSIDE ø 25mm EMBEDDED PVC CONDUIT OR ø 25mm GALVANIZED STEEL CONDUIT FOR EXPOSED CONDUIT, WHERE CABLE SIZES AS SHOWN:
– DETECTOR LOOPS: 2X1.5(mm2).
– ALARM FLASHER & SIREN: 2X2.5(mm2).

4– THE HEIGHT ABOVE FALSE CEILING DOES NOT EXCEED 80cm,

5– THE LIFTS ARE CONNECTED TO FACP THROUGH CONTACT, SO WHEN THE FIRE PANEL IS ACTIVATED THE ELEVATORS WILL GO DOWN TO THE EXIT FLOOR.

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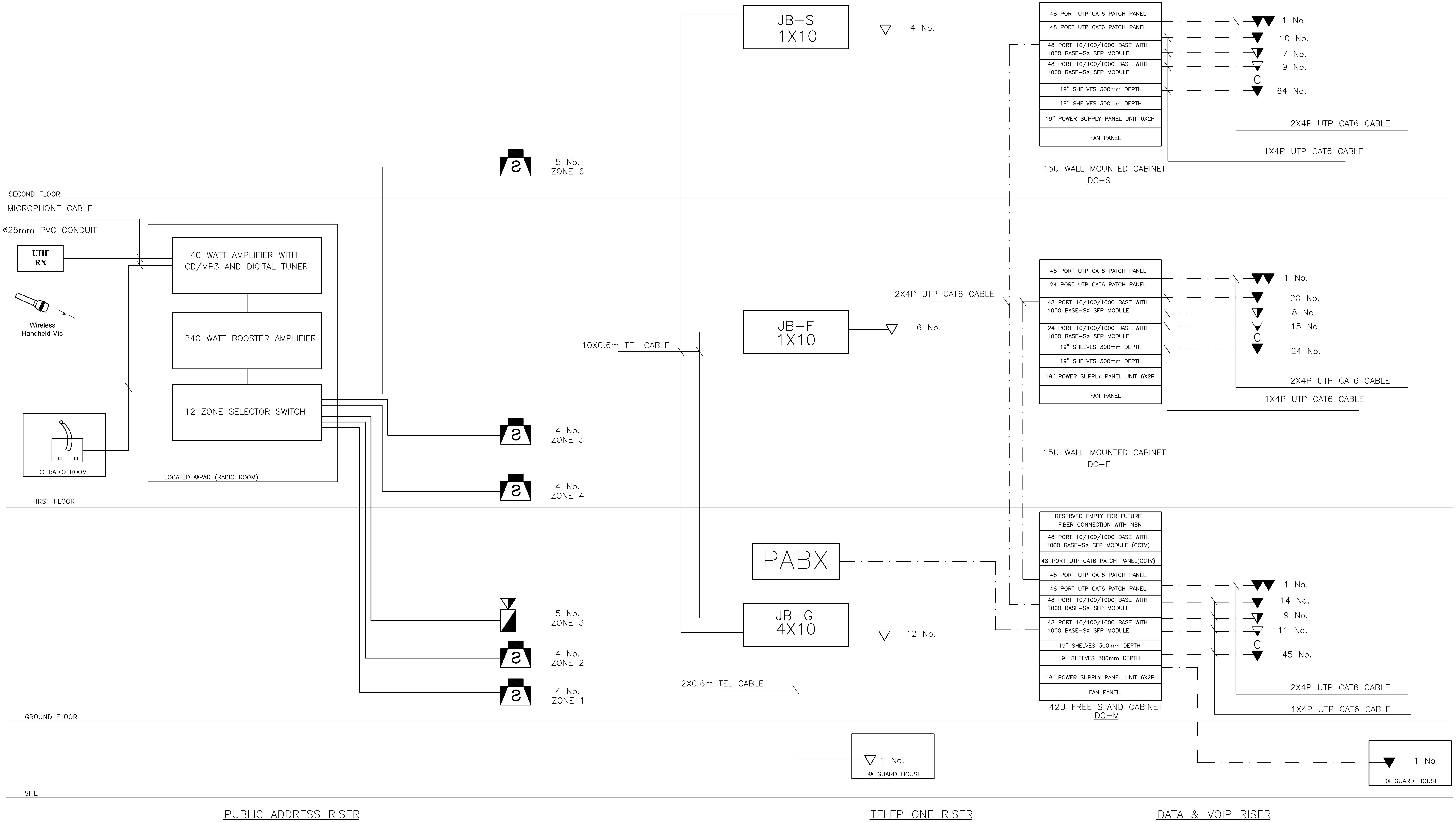
PHASE III	KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)	DRAWING NAME: FIRE ALARM SYSTEM FIRE ALARM RISER
PACKAGE 1	SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)	

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:	North :
M.A.	CAD	K.AH.	
SCALE : NTS	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-FA601			Rev.: 0



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PHASE III

PACKAGE 1

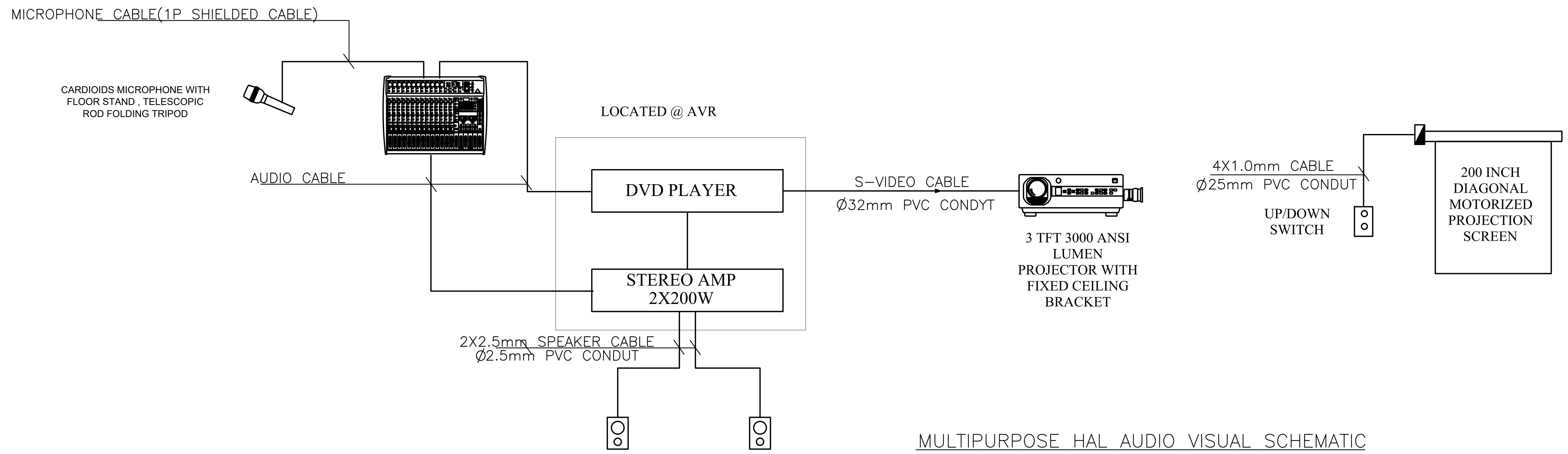
KHADIJA BINT KHWAILED BASIC (AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

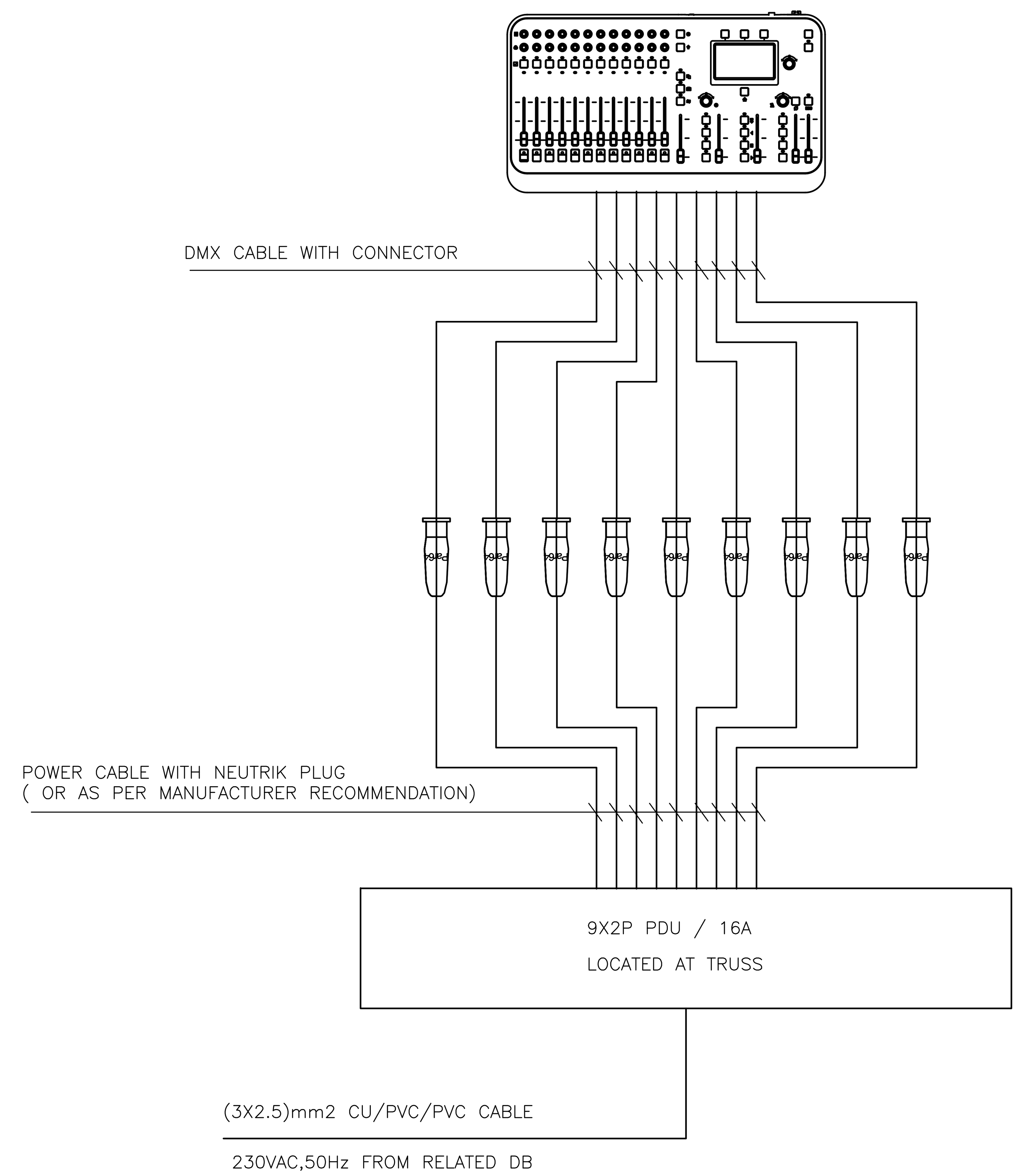
DRAWING NAME:
LOW CURRENT SYSTEMS
LOW CURRENT RISER

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

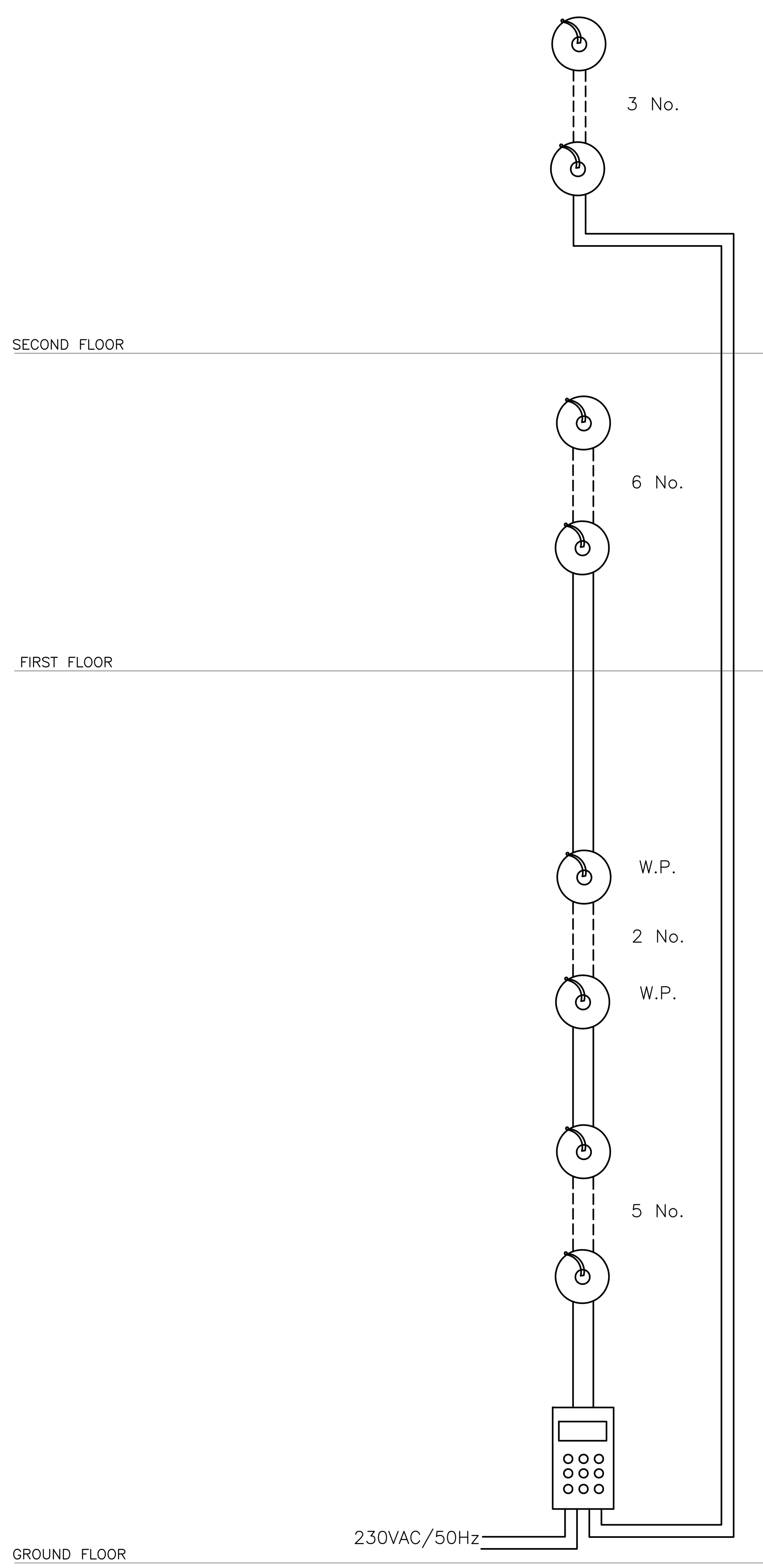
Design:	Drawn:	Checked:	North :
M.A.	CAD	K.AH.	
SCALE : NTS	Date: JUNE 2020	Approved: W.Z.	
DRAWING NUMBER: SKEP 17-TL601			Rev.: 0

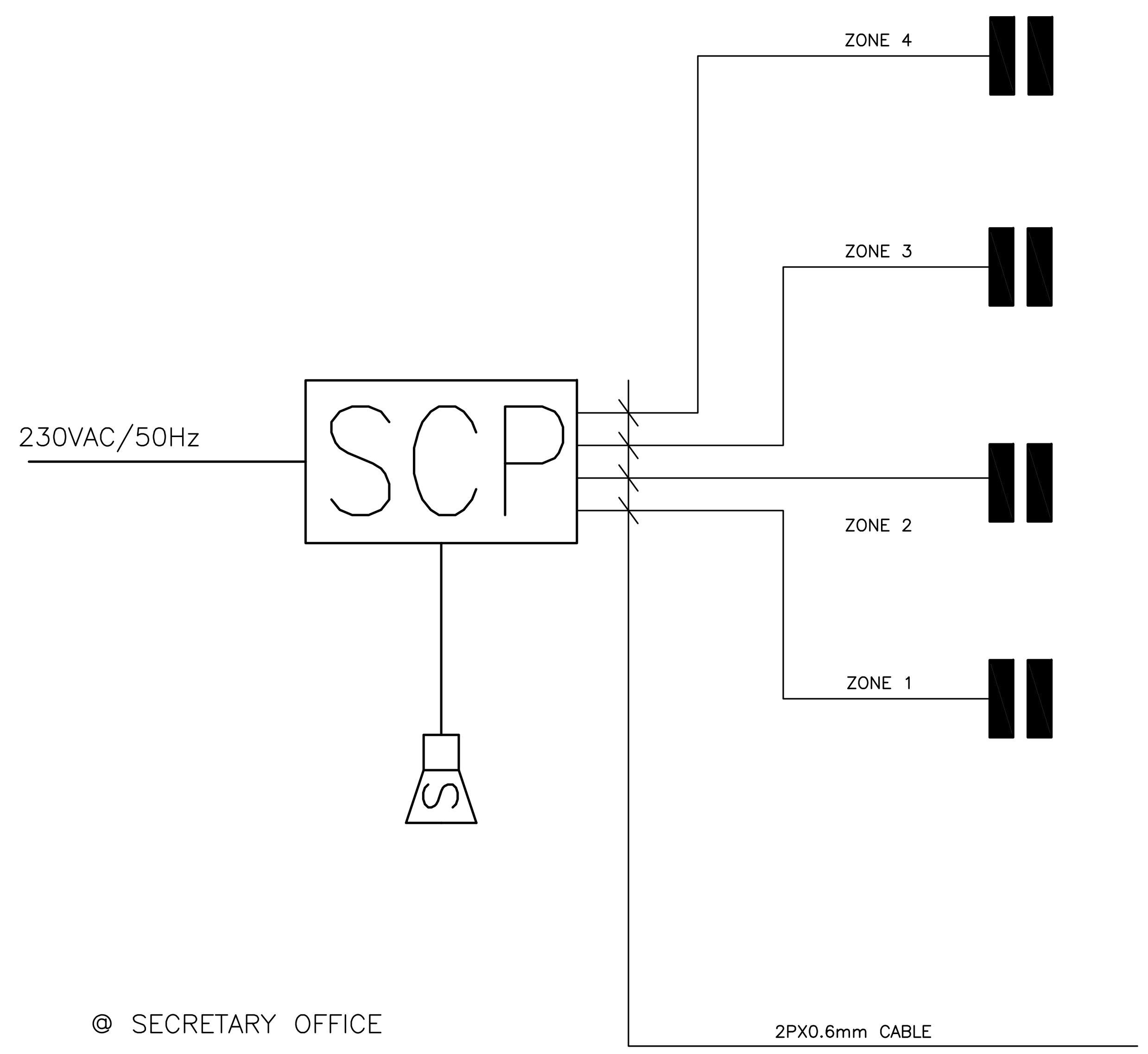


MULTIPURPOSE HAL AUDIO VISUAL SCHEMATIC



MULTIPURPOSE HALL STAGE LIGHTING SCHEMATIC





PROGRAM CHANGE BELL SCHEMATIC

INTRUSION ALARM SYSTEM

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KHADIJA BINT KHWAILED BASIC
(AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
LOW CURRENT SYSTEMS
LOW CURRENT RISER

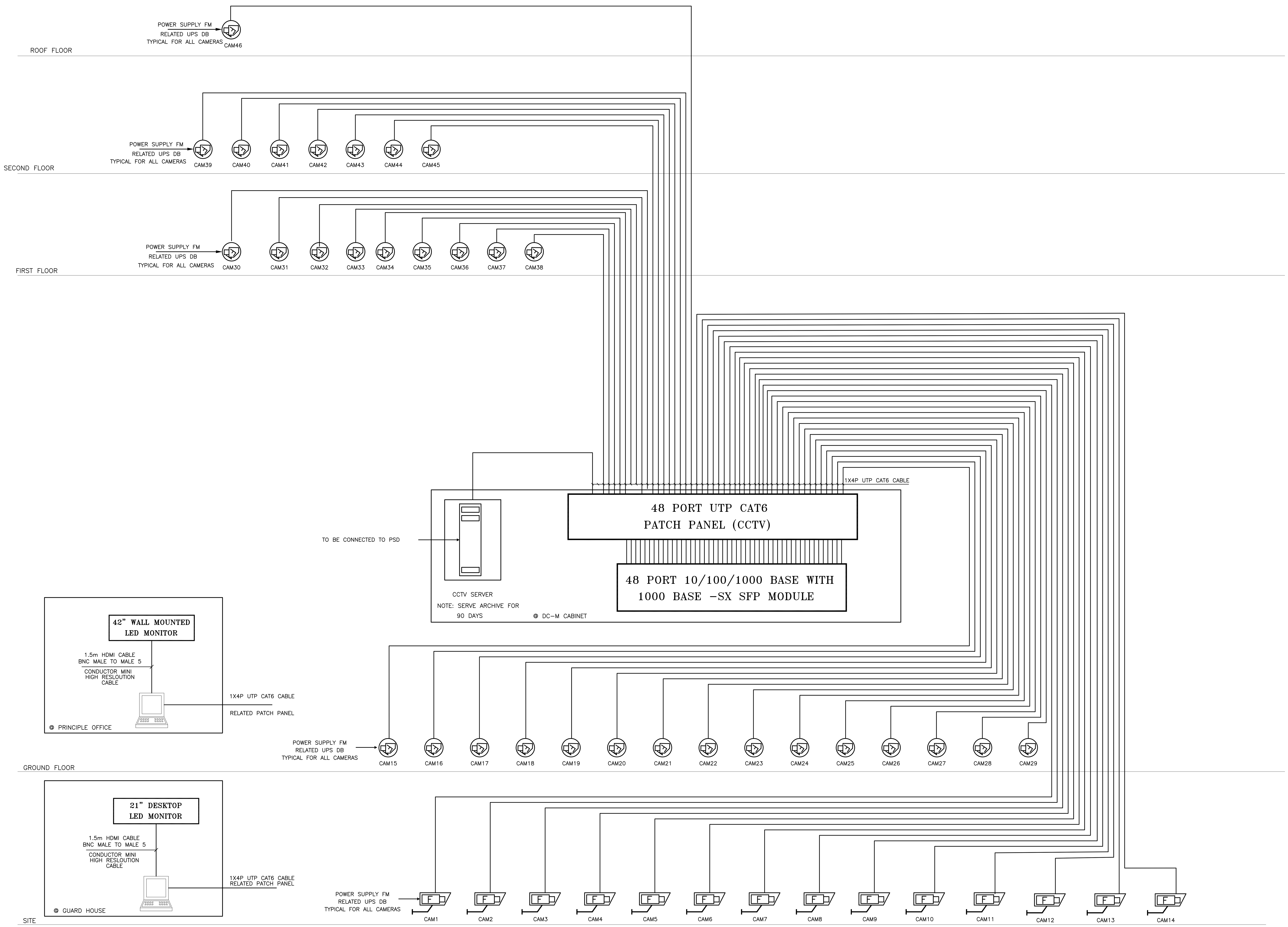
PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
M.A.	CAD	K.AH.
SCALE : NTS	Date: JUNE 2020	Approved: W.Z.

DRAWING NUMBER: SKEP 17-TL602

Rev.: 0

North :



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KHADIJA BINT KHWAILED BASIC
(AL SHOUNA AL JANOBIA)

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
SECURITY SYSTEM (CCTV)
SECURITY SYSTEM RISER

PLOT No	LOCATION	BASIN NO
696	Southern Shouneh	35 AL SAKNH

Design:	Drawn:	Checked:
M.A.	CAD	K.AH.
SCALE :	Date:	Approved:
NTS	JUNE 2020	W.Z.

North :

DRAWING NUMBER: SKEP 17-TS601

Rev.: 0