

LEGEND : ELECTRICAL INSTALLATION

SYMBOL	DESCRIPTION(S)	QTY
	4 X 54W TS RECESSED TYPE TS FLUO. LIGHT FTG. C/W ALUMINIUM REFLECTOR & TRANSPARENT PROTECTION COVER (DIMMABLE ELECTRONIC BALLAST).	74
	1 X 28W TS BARE CHANNEL FLUO. LIGHT FTG. C/W C/W WIRE GUARD. (ELECTRONIC BALLAST).	4
	1 X 28W TS WALL MOUNTED TYPE BARE CHANNEL FLUO. LIGHT FTG. C/W SINGLE METAL REFLECTOR (ELECTRONIC BALLAST).	16
	1 X 28W TS SURFACE MOUNTED TYPE BARE CHANNEL FLUO. LIGHT FTG. (ELECTRONIC BALLAST).	4
	1 X 12V/6W LED WALL MOUNTED TYPE UP / DOWN LIGHTING FTG.	4
	1 X 12V/12W LED RECESSED DOWNLIGHT C/W DIFFUSER	2
	2 X 28W RECESSED TYPE TS FLUO. FTG. C/W MIRROR REFLECTOR & ALUMINIUM CROSS BLADE. (ELECTRONIC BALLAST)	2
	22W LED DOWNLIGHT C/W PLASMATIC DIFFUSER	4
	LIGHTING POINT FOR ID PANEL	12
	10A 1/2/3/ GANG ONE WAY LIGHTING SWITCH AT 1450mm AFFL.	7 1 4
	8 GANG SMART SWITCH AT 1450mm AFFL.	2
	13A SWITCH SOCKET OUTLET MOUNTED INSIDE FLOOR SERVICE BOX/JUNCTION BOX.	18
	13A TWIN SWITCH SOCKET OUTLET AT 300mm AFFL.	36
	13A TWIN SWITCH SOCKET OUTLET AT 900mm AFFL.	6
	13A SWITCH SOCKET OUTLET AT AFFL.	6
	13A SWITCH SOCKET OUTLET AT ABOVE CEILING LEVEL FOR PROJECTOR	–
	13A SWITCH SOCKET OUTLET AT ABOVE CEILING LEVEL FOR WIFI SYSTEM	6
	13A SWITCH SOCKET OUTLET AT ABOVE CEILING LEVEL FOR SPEAKER	–
	13A SWITCH SOCKET OUTLET AT ABOVE CEILING LEVEL FOR CCTV	8
	20A 1 GANG ONE WAY DOUBLE POLE SWITCH A/C	1
	20A SPN ISOLATOR	–
	20A SPN ISOLATOR (ESSENTIAL)	4
	60A TPN ISOLATOR AT 900MM AFFL.	1
	= 50mm x 50mm TRUNKING @ CEILING (BY ELECTRICAL CONTRACTOR)	AS SHOWN
	= 25mm UPVC CONDUIT @ CEILING (BY ELECTRICAL CONTRACTOR)	AS SHOWN
	= 50mm x 50mm TRUNKING @ FLOOR (BY ELECTRICAL CONTRACTOR)	AS SHOWN
	= 25mm UPVC CONDUIT @ WALL (BY ELECTRICAL CONTRACTOR)	AS SHOWN
	= 60A THREE PHASE POWER SUPPLY (BY ELECTRICAL CONTRACTOR)	1
	= LIGHTING AUTOMATION PANEL	1

LEGEND : TELEPHONE INSTALLATION

SYMBOL	DESCRIPTION(S)	
	COMPUTER/DATA (1G) UTP PT. C/W SOCKET OUTLET USING CAT. 6 CABLE IN UPVC CONDUIT/CONCEALED	14
	WIFI POINT C/W SOCKET OUTLET AT CEILING LEVEL USING CAT 6 CABLE IN UPVC CONDUIT/CONCEALED.	6
	DOME TYPE CCTV	7
	CARD ACCESS C/W ENTRANCE READER & PRESS RELEASE BUTTON	1
	ELECTROMAGNETIC LOCK C/W BREAKGLASS	3
		2

- ARCHI NOTE:
- 1) ALL WORKS SHALL BE CARRIED OUT UNDER THE MAIN CONTRACTOR UNLESS SPECIFIED OTHERWISE.
 - 2) CONTRACTOR SHALL REFER CONCURRENTLY TO ARCHITECTURAL SCHEDULE OF FINISHES, WALL TYPE, CEILING TYPE, WINDOW, DOOR, IRONMONGERY AND SANITARYWARE.
 - 3) CONTRACTOR SHALL REFER CONCURRENTLY TO M&E SCHEDULES FOR MECHANICAL, ELECTRICAL ACCESSORIES AND LIGHT FITTINGS.
 - 4) CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWINGS BASED ON VERIFIED SITE DIMENSIONS, FOR ARCHITECT'S APPROVAL.
 - 5) CONTRACTOR SHALL SUBMIT ALL PROPOSED MATERIALS AND SAMPLES, FOR ARCHITECT'S APPROVAL.
 - 6) ALL ID FITMENT, SYSTEM & LOOSE FURNITURE REFER TO ID SCHEDULE/ DETAILS (BY ID CONTRACTOR).

LEGEND : ACMV INSTALLATION

SYMBOL	DESCRIPTION(S)	
	JET DIFFUSER (500MM FACE SIZE)	44
	SUPPLY AIR GRILLE	10
	RETURN AIR GRILLE	6
	EXHAUST AIR GRILLE	2
	AIR HANDLING UNIT (AHU)	4
	WALL MOUNTED EXHAUST FAN	1
	A/C CONTROL MODULE	1
	RETURN AIR LOUVER	2
	EXHAUST AIR LOUVER SIZE: 4000MM X 900MM	4
	FRESH AIR LOUVER SIZE: 8000MM X 900MM	2
	TOILET EXHAUST AIR LOUVER SIZE: 300 X 900	2
	TOILET EXHAUST FAN	2
	SMOKE SPILL FAN	4
	CHILLED WATER CEILING CASSETTE	1
	DOOR ACTUATOR FOR SMOKE SPILL SYSTEM (SLIDING DOOR)	4

LEGEND: PUBLIC ADDRESS SYSTEM.

SYMBOL	DESCRIPTION(S)	
	6W RECESSED CEILING MOUNTED SPEAKER C/W MATCHING TRANSFORMER	29

LEGEND : FIRE INSTALLATION

SYMBOL	DESCRIPTION(S)	
	QUICK RESPONSE PENDENT SPRINKLER (155°F/68°C TEMPERATURE RATING).	179
	UPRIGHT SPRINKLER (155°F/68°C TEMPERATURE RATING).	175
	UPRIGHT CUT OFF SPRINKLER.(155°F/68°C TEMPERATURE RATING).	2
	EMERGENCY LIGHT. (SUPPLY & INSTALL BY ELECTRICAL CONTRACTOR)	12
	KELUAR SIGN. (SUPPLY & INSTALL BY ELECTRICAL CONTRACTOR)	7
	9 KGS ABC DRY POWDER PORTABLE FIRE EXTINGUISHER.	7
	HOSE REEL DRUM C/W 25mmØ x 30m (LENGTH) HOSE & NOZZLE.	2
	2.27 KGS CARBON DIOXIDE PORTABLE FIRE EXTINGUISHER.	2
	SMOKE DETECTOR.	4
	SMOKE DETECTOR IN SAMPLING TUBE.	4

- M&E NOTE:
- 1) ALL EQUIPMENT DIMENSION SHOWN IS PRELIMINARY & ACTUAL DIMENSION TO BE DETERMINED BASED ON EQUIPMENT SELECTED.
 - 2) 300 LUX LEVEL DESIGN BASED ON MS STANDARD:1525 (2007)
 - 3) TO MEET MINIMUM REQUIREMENTS OF VENTILATION RATE IN ASHRAE 62.1 OR THE LOCAL BUILDING CODE WHICHEVER IS MORE STRINGENT.
 - 4) THESE DRAWINGS SHALL BE STUDIED IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL & PLUMBING DRAWING.
 - 5) FRESH AIR LOUVERS SHALL BE 2 NOS OF 4000MM X 900MM TO PROVIDE CONSISTENCY IN ELEVATION VIEW FROM EXTERNAL.
 - 6) AAV SETTING OUT TO BE DETERMINED BY AAV CONTRACTOR.

LEGEND: AUDIO/VISUAL SYSTEM.

SYMBOL	DESCRIPTION(S)	
	= LED PARCAN	–
	= LED CYCLORAMA	–
	= MOTORISED LIGHTING BARREL	–

WP = WALL PROJECTION IMAGE: 6800mm(W) X 4259mm(H)
P = 8500 ANSI LUMENS WXGA 3LCD PROJECTOR
SP = LINEARRAY SPEAKER
SUB = SUBWOOFER
AV RACK = AV EQUIPMENT RACK
13A SSO = POWER SUPPLY FOR STAGE MONITOR SPEAKER
13A SSO = POWER SUPPLY 23" PREVIEW MONITOR
AV = HDMI/AUDIO INPUT PANEL
MIC INPUT = MICROPHONE INPUT PANEL
MONITOR = PREVIEW MONITOR
RJ 45 = SMART TOUCH SCREEN
DMX = MOVING HEAD PANEL
SM = STAGE MONITOR SPEAKER PANEL

CONSTRUCTION DRAWING

PROJECT TITLE : CADANGAN MEMBINA SEBUAH KOLEJ UNIVERSITI SWASTA DI ATAS PT 5828, PERSIARAN CASSIA BARAT 3, BATU KAWAN, MK. 13, SEBERANG PERAI SELATAN YANG MENDUNGUNCI : BLOK A – PUSAT PENTADBIRAN 5 TINGKAT BLOK B – PERPUSTAKAAN DAN BILIK KULIAH 6 TINGKAT BLOK C – BANGUNAN AKADEMIK DAN DEWAN SERBAGUNA B3 TINGKAT DENGAN PODIUM BLOK D – DEWAN KULIAH DAN KAFETERIA 3 TINGKAT BLOK E – BANGUNAN AKADEMIK 5 TINGKAT 2 UNIT PONDOK PENGAWAL DAN 1 UNIT TNB 11 KV STESEN SUIS UTAMA UNTUK: TETUAN KDU COLLEGE (PG) SDN. BHD		LAND OWNER & BUILDING OWNER SIGNATURE : NAME : DR.CHONG BENG KEOK CHIEF EXECUTIVE OFFICER (CEO) IC. NO : 610612–02–5048 ALAMAT :KDU COLLEGE (PG) SDN.BHD. 32, JALAN ANSON, 10400 GEORGE TOWN, PULAU PINANG. TEL. NO : 604–2386368		DESIGN ARCHITECT :  ARCHITECTURE GROUP - STUDIO A CPG CONSULTANTS PTE LTD 1 Gateway Drive #23–01 Westgate Tower, Singapore 608531 Tel : +63574888 ; fax: +63574188  15TH FLOOR, BANGUNAN AMMELIFE, NO.1, JLN. LUMUT, 50400 KUALA LUMPUR. TEL: (30)–4046–1346 FAX: (03) 4043–1349 EMAIL: ybhwo@nrasb.com.my		C&S CONSULTANT :  PERUNDING KELANA CIVIL & STRUCTURAL ENGINEERS Level 12, Unit 12(D), Wisma Boon Siew, No.1, Penang Road, 10000 Penang. Tel: 2622628, Fax: 2641618 (Company No. A50232772–W) M&E CONSULTANT :  PERUNDING P.L.A. Consulting Mechanical & Electrical Engineers. 8–01, WISMA PANTAI, JALAN WISMA PANTAI, 12200 BUTTERWORTH, PENANG. TEL. NO. : (604) 3337990 FAX NO. : (604) 3317337 E–MAIL : project@pla–group.com		QS CONSULTANT :  UNITECH QS CONSULTANCY SDN. BHD. 12A–A, MENARA NORTHAM, 55, JALAN SULTAN AHMAD SHAH, 10050 PENANG KITCHEN SPECIALIST :  DISHES SDN BHD NO. 21–1, JALAN SEMENYIH SENTRAL 1, SEMENYIH SENTRAL, SEMENYIH, 43500 SELANGOR TEL : +603–872–71201 email : info@dishes.com.my webmail : www.dishes.com.my		DRAWING TITLE : BLOCK C_2ND FLOOR MPH GENERAL NOTE			
DATE : 24.03.16		SCALE : 1:250		CHECK BY : Ej/EDM									
PROJECT NO. :		STATUS		BLOCK		DWG. NO		REVISION					
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