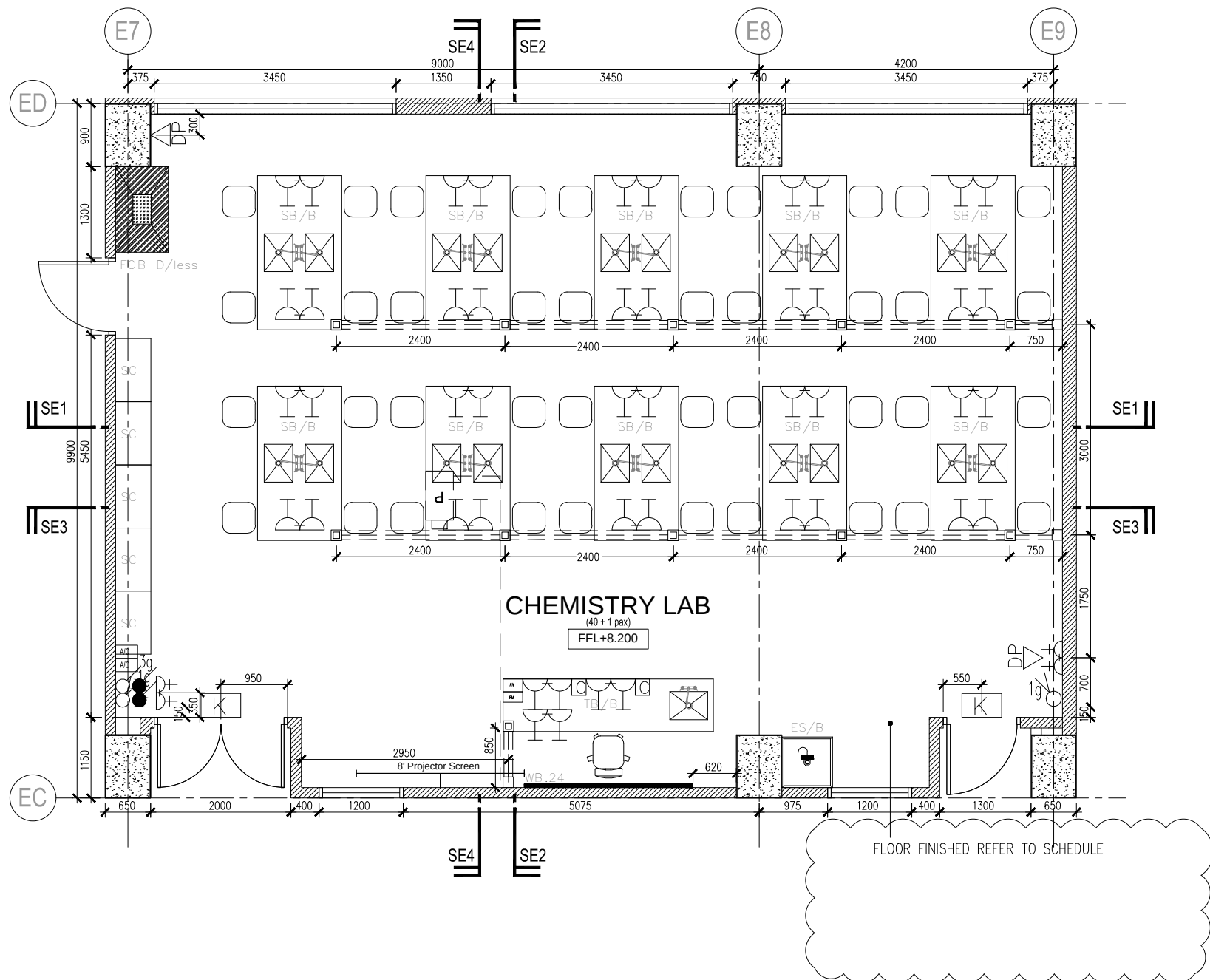




LEGEND : LAB EQUIPMENT & REQUIREMENT (BY LAB CONTRACTOR)

1. **SB/B:**  
10x Lab Table  
Electro-Galvanised Steel Construction with Epoxy Powder Coated Finish  
Dim: W=1200MM x L=2200 H=900mm  
Thk= 16mm, Light Grey Color Phenolic Resin Worktop  
2x PP Sink(W=560 x D=428 x H=260mm)  
2x PP Dilution Tanks 10Ltr  
2x Single way lab tap  
2x 2-gang switch socket outlet  
Volt: 240V/1ph

2. **TB/B:**  
Teacher Bench + Chair  
Fixed Type Wall Bench  
Electrogalvanised Steel Construction With Epoxy Powder Coated Finish  
Dim: L=3000 x D=750 x H=900mm  
1 knee-space for workstation  
16mm Thk Light Grey Color Phenolic Resin Worktop  
Comes with 100mm Backsplash  
1x PP Sink (W=560 x D=428 x H=260)  
1x PP Dilution Tank 10Ltr  
1x Single way lab tap  
2x 2-gang Switch Socket Outlet  
Volt: 240V/1ph

3. **SC:**  
5x Storage Cabinet  
Electrogalvanised Steel Construction With Epoxy Powder Coated Finish With Glazed Glass Door  
Dim: L=900 x D=500 x H=2100 mm

4. **SL:**  
Student Lab Stool  
PU Cushioned Type  
Min. H=550 x Max. H=870mm  
Adjustable seat height

5. **WB,24:**  
Wall Mounted White Board  
Dim: W=1200MM x L=2400mm  
Weight: 10kg Volt: N/A
6. **ES/B:**  
EMERGENCY SHOWER / EYEWASH, FLOOR MOUNTING, ABS SHOWER HEAD / BOWL  
MATERIALS: Galvanized steel piping, Brass fittings.  
COATING: Anti-corrosive polyamide 11 plastic in high-visibility yellow color.  
WATER INLET: G1-1/4" BSP  
WATER INLET PRESSURE: Recommended 2 bar / Min. 1.5 bar / Max. 8 bar  
SHOWER MATERIALS: Shower head in ABS plastic.  
FLOW RATE: Regulated at 110 l/min.  
OPERATION: Pull rod.  
VALVE: Full bore valve 1"  
EYEWASH MATERIALS: Eyewash assembly and eyewash bowl in ABS plastic. Two high-flow aerated water sprays at low pressure with automatic opening anti-dust cover.  
FLOW RATE: Regulated at 22 l/min.  
OPERATION: Push handle.  
VALVE: Full bore valve 1/2"  
WASTE: G1-1/4" BSP

7. **FCB D/Less:**  
Ductless Fume Hood  
Dim: L=1220 x W=750 x H=2420mm  
Worktop: Phenolic resin, laboratory grade, light grey  
Services: 2x Pre wired 13 Amp Switch socket outlets (BS)  
Standard Complid: ASHRAE 110-95 airflow requirement (0.5m/s +/-20% as installed)  
Controls: Fan - ON/OFF switch  
Light - ON/OFF switch  
Body: Electrogalvanised steel with heavy powder coated finish  
Airfoil: SS 304  
Design Velocity: 0.5m/s at 500mm sash height  
Extract Volume at 500mm Height Sash Opening: 900 CMH  
\*\*Ducting and Exhaust Blower does not included

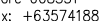
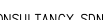
LEGEND : ELECTRICAL INSTALLATION

| SYMBOL | DESCRIPTION(S)                                                                                                                                                                                                                                                                         | QTY      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|        | 2 X 28W RECESSED TYPE TS FLUO. FTG. C/W MIRROR REFLECTOR & ALUMINIUM CROSS BLADE. (ELECTRONIC BALLAST)                                                                                                                                                                                 | 18       |
|        | 10A 1/2/3 GANG TWO WAY LIGHTING SWITCH AT 1450mm AFFL.                                                                                                                                                                                                                                 | 2        |
|        | 10A 1/2/3/ GANG ONE WAY LIGHTING SWITCH AT 1450mm AFFL.                                                                                                                                                                                                                                | 1        |
|        | 13A TWIN SWITCH SOCKET OUTLET AT 300mm AFFL.                                                                                                                                                                                                                                           | 2        |
|        | 13A TWIN SWITCH SOCKET OUTLET (RUN IN FLOOR TRUNKING) MOUNTED AT TABLE / LOW HEIGHT PARTITION. (ACTUAL POSITION TO BE DETERMINE ON SITE)                                                                                                                                               | 23       |
|        | 13A SWITCH SOCKET OUTLET AT ABOVE CEILING LEVEL FOR PROJECTOR                                                                                                                                                                                                                          | 1        |
|        | 13A SWITCH SOCKET OUTLET AT ABOVE CEILING LEVEL FOR WIFI SYSTEM                                                                                                                                                                                                                        | 1        |
|        | 13A SWITCH SOCKET OUTLET AT BELOW CEILING LEVEL FOR SPEAKER                                                                                                                                                                                                                            | 2        |
|        | 20A 1 GANG ONE WAY DOUBLE POLE SWITCH (FOR PROJECTOR & SPEAKER)                                                                                                                                                                                                                        | 2        |
|        | UNDER FLOOR JUNCTION BOX ( 250mm X 250mm X 56mm )<br>FOR POWER, TELEPHONE & DATA CAST IN FLOOR SLAB:<br>- DATA - 150mm X 25mm X 3.2mm UNDERFLOOR UPVC TRUNKING/CONDUIT. (CAST IN FLOOR SLAB)<br>- POWER - 150mm X 25mm X 3.2 mm UNDERFLOOR UPVC TRUNKING/CONDUIT. (CAST IN FLOOR SLAB) | AS SHOWN |
|        | 150mm X 25mm METAL TRUNKING DROPPER                                                                                                                                                                                                                                                    | AS SHOWN |
|        | 25MM PVC CONDUIT FOR AUDIO AND VISUAL C/W INSPECTION BOX (BY ELECTRICAL CONTRACTOR)                                                                                                                                                                                                    | AS SHOWN |

LEGEND : ACMV INSTALLATION

| SYMBOL | DESCRIPTION(S)                                                               | QTY |
|--------|------------------------------------------------------------------------------|-----|
|        | SUPPLY AIR GRILLE (600 x 600 UNLESS OTHERWISE STATED)                        | 14  |
|        | 4 WAY TYPE C/W OPPOSED BLADE VOLUME CONTROL DAMPER (UNLESS OTHERWISE STATED) | 2   |
|        | 1200MMmm X 600mm RETURN AIR GRILLE                                           | 2   |
|        | A/C CONTROL MODULE                                                           | 2   |
|        | FAN COIL UNIT (FCU)                                                          | 2   |
|        | PLENUM BOX                                                                   | 2   |
|        | 300MM X 300MM FRESH AIR GRILLE C/W VOLUME CONTROL DAMPER                     | 2   |

CONSTRUCTION DRAWING

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |              |                   |         |          |
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| <div>PROJECT TITLE :</div> <div>CADANGAN MEMBINA SEBUAH KOLEJ UNIVERSITI SWASTA<br/>DI ATAS PT 5828, PERSIARAN CASSIA BARAT 3, BATU KAWAN,<br/>MK. 13, SEBERANG PERAI SELATAN YANG MENGANDUNGI :<br/><br/>BLOK A – PUSAT PENTADBIRAN 5 TINGKAT<br/>BLOK B – PERPUSTAKAAN DAN BILIK KULIAH 6 TINGKAT<br/>BLOK C – BANGUNAN AKADEMIK DAN DEWAN SERBAGUNA<br/>B3 TINGKAT DENGAN PODIUM<br/>BLOK D – DEWAN KULIAH DAN KAFETERIA 3 TINGKAT<br/>BLOK E – BANGUNAN AKADEMIK 5 TINGKAT<br/>2 UNIT PONDOK PENGAWAL DAN<br/>1 UNIT TNB 11 KV STESEN SUIS UTAMA<br/><br/>UNTUK: TETUAN KDU COLLEGE (PG) SDN. BHD</div> | <div>LAND OWNER &amp; BUILDING OWNER SIGNATURE :</div> <div><div>.....</div><div>NAME : DR.CHONG BENG KEOK<br/>CHIEF EXECUTIVE OFFICER (CEO)<br/>IC. NO : 610612-02-5048<br/>ALAMAT :KDU COLLEGE (PG) SDN.BHD.<br/>32, JALAN ANSON, 10400 GEORGE TOWN,<br/>PULAU PINANG.<br/>TEL. NO : 604-2386368</div></div> | <div>DESIGN ARCHITECT :</div> <div><div>ARCHITECTURE GROUP - STUDIO A<br/>CPG CONSULTANTS PTE LTD<br/>1 Gateway Drive #23-01<br/>Westgate Tower, Singapore 608531<br/>Tel : +63574888 ; fax: +63574188</div><div><div>ARCHITECT SIGNATURE :</div><div>15TH FLOOR, BANGUNAN AMMELIFE,<br/>NO.1, JLN. LUMUT, 50400 KUALA LUMPUR.<br/>TEL: (30)-4046-1346<br/>FAX: (03) 4043-1349<br/>EMAIL: ybhwa@nrasb.com.my</div></div></div> | <div>C&amp;S CONSULTANT :</div> <div><div>PERUNDING KELANA<br/>CIVIL &amp; STRUCTURAL ENGINEERS<br/>Level 12, Unit 12(D), Wisma Boon Siew,<br/>No.1, Penang Road, 10000 Penang.<br/>Tel: 2622628, Fax: 2641618<br/>(Company No. A50232772-W)</div><div><div>M&amp;E CONSULTANT :<br/><b>PERUNDING P.L.A.</b><br/><i>Consulting Mechanical &amp; Electrical Engineers.</i><br/>8-01, WISMA PANTAI, TEL. NO. : (604) 3337990<br/>JALAN WISMA PANTAI, FAX NO. : (604) 3317337<br/>12200 BUTTERWORTH, PENANG. E-MAIL : project@pla-group.com</div></div></div> | <div>QS CONSULTANT :</div> <div><div>UNITECH QS CONSULTANCY SDN. BHD.<br/>12A-A, MENARA NORTHAM,<br/>55, JALAN SULTAN AHMAD SHAH,<br/>10050 PENANG</div><div><div>KITCHEN SPECIALIST :<br/><b>DISHES SDN BHD</b><br/>NO. 21-1, JALAN SEMENYIH SENTRAL 1,<br/>SEMENYIH SENTRAL,<br/>SEMENYIH, 43500 SELANGOR<br/>TEL : +603-872-71201<br/>email : info@dishes.com.my<br/>webmail : www.dishes.com.my</div></div></div> | <div>DRAWING TITLE :</div> <div><div>BLOCK E_1ST FLOOR<br/>CHEMISTRY LAB<br/>FURNITURE LAYOUT PLAN</div></div> |              |                   |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DATE : 09.03.16                                                                                                | SCALE : 1:75 | CHECK BY : Ej/EDM |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PROJECT NO. :                                                                                                  | STATUS       | BLOCK             | DWG. NO | REVISION |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 55314                                                                                                          | CA           | E                 | P201    | A        |