## A) GENERAL NOTES

# WORKS TO BE PROVIDED AND INSTALLED BY CONTRACTORS

- THE CONTRACTORS SHALL BE RESPONSIBLE TO SUPPLY DESIGN DELIVERY INSTALLATION TESTING AND COMMISSIONING OF THE FORWARD PROCLIRED FOLLIPMENT (FPF) AS SHOWN ON COMPOSITE DRAWINGS.
- THE CONTRACTORS SHALL CO-ORDINATE ON SITE WITH ALL RELEVANT PARTIES, IN PARTICULAR THE DESIGN AND BUILD CONTRACTOR, FOR THE INSTALLATION.
- THE CONTRACTORS SHALL SUBMIT ALL FPE INSTALLATION DETAILS TO DESIGN AND BUILD CONTRACTOR FOR CO-ORDINATION AT LEAST 7 DAYS PRIOR TO INSTALLATION.
- ALL DIMENSIONS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR THE SITE MEASUREMENT TO VERIFY ALL CRITICAL DIMENSIONS BEFORE INSTALLATION AND DELIVERY OF EQUIPMENT.
- 5. ALL FINAL CONNECTION FROM INTERFACING AND CAPPED OFF POINTS (E.G. ISOLATOR, VALVE, ETC.) TO FPE EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY CONTRACTORS.
- ALL SERVICES IN DARK SOLID LINE AS SHOWN IN THE DRAWINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTORS UNLESS OTHERWISE SPECIFIED.
- SETTING OUT OF B.S. PROVISIONS AND BUILDER'S WORKS FOR EQUIPMENT IS FOR INDICATION ONLY. EXACT LOCATION SHALL BE COORDINATED WITH THE DESIGN AND BUILD CONTRACTOR & VERIFIED ON SITE PRIOR TO INSTALLATION.
- THE CONTRACTORS SHALL BE RESPONSIBLE TO SEAL UP ALL AROUND OF THE EQUIPMENT FOR AIR TIGHTNESS INCLUDING AIR TIGHT CEILING OPENING, CEILING JUNCTION, HANGER WALL, SUNKEN SLAB, INTERFACE BETWEEN FLOOR FINISH AND EQUIPMENT, ETC. IF APPLICABLE.
- THE CONTRACTORS SHALL BE RESPONSIBLE TO SUPPLY AND INSTALL ALL REQUIRED MATERIAL, FITTING, CABLES, PIPEWORKS, DUCTWORKS, ETC. FOR CONNECTING THE EQUIPMENT TO THE CORRESPONDING BUILDING SERVICES PROVISION BY DESIGN AND BUILD CONTRACTOR AND DESIGN AND BUILD CONTRACTOR'S SUBCONTRACTORS AS SHOWN ON THE COMPOSITE DRAWINGS. ANY REVISION OR ADDITIONAL WORKS ON THE BUILDING SERVICES PROVISIONS, INCLUDING BUT NOT LIMITED TO FIRE SERVICE, LIGHTING, AIR-CONDITIONING & MECHANICAL VENTILATION, DRAINAGE, WATER SUPPLY POINT, MEDICAL GAS OUTLET, ETC., SHALL BE RESPONSIBLE BY CONTRACTORS TO ENSURE THE DESIGN PERFORMANCE WOULD BE NOT AFFECTED AND DEGRADED AFTER INSTALLATION OF EQUIPMENT.
- 10. THE CONTRACTORS SHALL ENSURE THAT THEIR EQUIPMENT CAN BE DELIVERED TO SITE UPON COORDINATION AND AGREEMENT WITH DESIGN AND BUILD CONTRACTOR ON THE DELIVERY ROUTE AND WORKING SCHEDULE. ALL COSTS FOR ADDITIONAL OR MODIFICATION WORKS RELATED TO BUILDER WORKS SHALL BE BORNE BY THE CONTRACTORS
- 11. ALL EQUIPMENT WALL AND FALSE CEILING PANEL CUT OFF, PIPE SLEEVE, SEALING AND MAKE GOOD WORKS SHALL BE DESIGNED, PROVIDED & INSTALLED BY THE CONTRACTORS.
- 12. SUPPORTING FRAME FOR FPE EQUIPMENT SHALL BE DESIGNED, PROVIDED & INSTALLED BY THE CONTRACTORS, UNLESS OTHERWISE SPECIFIED.
- 13. THE CONTRACTORS SHALL BE RESPONSIBLE FOR COVER UP ALL CABLE CONTAINMENT (TRUNKING & JUNCTION).
- 14. THE CONTRACTORS SHALL BE RESPONSIBLE TO DESIGN THE PROVISION FOR MAINTENANCE (E.G. MOUNTING HOOD, ACCESS PANEL, ACCESS DOOR, ETC).
- 15. ALL FINAL CONNECTION FROM ISOLATION / GATE VALES AND CAPPED-OFF POINTS TO FPE EQUIPMENT WOULD BE PROVIDED AND INSTALLED BY THE CONTRACTORS.
- 16. THE CONTRACTORS SHALL BE RESPONSIBLE TO ENSURE THEIR INSTALLATION TO COMPLY WITH ALL RELEVANT REGULATION, GUIDELINE, STANDARD, ETC.
- 17. ALL TEMPORARY WORKING PLATFORM SUCH AS SCAFFOLDING AND MOBILE PLATFORM, ETC. FOR EQUIPMENT INSTALLATION SHALL BE PROVIDED BY THE CONTRACTORS. SAFE WORKING PLATFORM TO THE SATISFACTION OF THE DESIGN AND BUILD CONTRACTOR TO BE PROVIDED BY THE CONTRACTORS.
- 18. EQUIPOTENTIAL BONDING FOR MEDICAL EQUIPMENT SHOULD BE FINISHED BY THE CONTRACTORS
- 19. IF ANY WATER CONNECTION FROM BUILDING CENTRAL WATER SUPPLY SYSTEM, THE CONTRACTORS SHALL EMPLOY LICENSED PLUMBER TO CARRY OUT ALL SUBMISSION (E.G WWO 542 AND WWO46,ETC) AND INSTALLATION / WORKS TO FULFILL WSD REQUIREMENTS.
- 20. THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL STATUTORY SUBMISSIONS FOR ANY REVISION OR ADDITIONAL WORKS ON SITE TO SUIT THE INSTALLATION AND DAILY OPERATION OF THE EQUIPMENT IF REQUIRED.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING UP THE RESERVED WALL OPENING AND PROVIDING AND INSTALLING THE APPROPRIATE FIRE BARRIERS, FIRE-STOP SEALANTS, FIRE-STOP BLOCKS, ETC. AS NECESSARY TO MAINTAIN THE FIRE RESISTANCE RATING, WHERE APPLICABLE.
- 22. THE CONTRACTORS SHALL BE RESPONSIBLE TO RE-PROVIDE, REINSTATE AND MAKE GOOD OF THE FIRE BARRIERS, FIRE-STOP SEALANTS, FIRE-STOP BLOCKS, ETC. FOR FIRE COMPARTMENTATION, FIRE RATED ENCLOSURE, CABLE TRAYS, PIPES AND OTHER PENETRATIONS REQUIRED FOR EQUIPMENT INSTALLATION TO MAINTAIN THE FIRE RESISTANCE RATING,
- 23. THE DETAIL OF WORKS DEMARCATION BETWEEN THE CONTRACTOR AND THE DESIGN AND BUILD CONTRACTOR SHALL BE REFERRED TO THE LAYOUT AND ELEVATION DRAWINGS

### B) <u>LEGEND</u>

# ELECTRICAL INSTALLATION

# ONE GANG/ TWO GANG SWITCHED 13A SOCKET OUTLET WITH PILOT LIGHT (NORMAL POWER) (MOUNTING LEVEL ABOVE BENCH AT 1150mmAFFL, UNLESS OTHERWISE

ONE GANG/ TWO GANG SWITCHED 13A SOCKET OUTLET WITH PILOT LIGHT (ESSENTIAL POWER) (MOUNTING LEVEL ABOVE BENCH AT 1150mmAFFL, UNLESS OTHERWISE

ONE GANG/ TWO GANG SWITCHED 13A WEATHERPROOF SOCKET OUTLET, IP56 (NORMAL POWER) (MOUNTING LEVEL ABOVE BENCH AT 1150mmAFFL, UNLESS OTHERWISE

ONE GANG/ TWO GANG SWITCHED 13A WEATHERPROOF SOCKET OUTLET, IP56 (ESSENTIAL POWER) (MOUNTING LEVEL ABOVE BENCH AT 1150mmAFFL, UNLESS OTHERWISE SPECIFIED)

ISOLATOR (RATING AS INDICATED), TPN UNLESS OTHERWISE SPECIFIED (NORMAL POWER) (MOUNTING LEVEL AT 300mm AFCL, UNLESS OTHERWISE SPECIFIED)

ISOLATOR (RATING AS INDICATED), TPN UNLESS OTHERWISE □ 32E SPECIFIED (ESSENTIAL POWER) (MOUNTING LEVEL AT 300mm AFCL, UNLESS OTHERWISE SPECIFIED)

DP SWITCHED 13A FUSED SPUR UNIT WITH PILOT LIGHT

ZZ (MOUNTING LEVEL AT 300mm AFCL, UNLESS OTHERWISE SPECIFIED) "XX" DENOTED THE POWER SUPPLY, E FOR ESSENTIAL, U FOR UPS, INTEGRATED WITH PILOT LIGHT FOR SOCKET AND FUSE SPUR UNIT

# EXTRA LOW VOLTAGE INSTALLATION

0) /02/03 IEC60670-1 BASE BOX W/ BLANK PLATE COVER C/W 1 NO. #25mm G.I. CONDUIT AND DRAW WIRE BY DESIGN AND BUILD CONTRACTOR. DATA PORT W/ COVER PLATE C/W DATA CABLE BY OTHERS (I.E. IT VENDOR, OTHER SYSTEM VENDOR)

D2: F&F SYSTEMS

D3: BUILDING & OTHER RELATED SYSTEMS

# PLUMBING & DRAINAGE INSTALLATION

COLD WATER SUPPLY PIPE C/W GATE VALVE (SIZE AS INDICATED ON DRAWING)

DRAIN POINT (SIZE AS INDICATED ON DRAWING)

COMPOSITE DRAWING SUBMISSION

UMBER DESCRIPTION DATE 0 FIRST SUBMISSION APR 202 1 SECOND SUBMISSION AUG 202 DEC 20

# C) ROOM CONDITIONS

# ROOM NAME: COMBINED CORE LABORATORY (C6.1.28)

- TEMPERATURE IN SUMMER & WINTER: 22°C
- HUMIDITY IN SUMMER & WINTER: 50%RH ILLUMINATION LEVEL : 500LUX
- CFILING HEIGHT: 2600mm
- CEILING FINISH: ACOUSTIC ALUMINUM TILE SUSPENDED CEILING (FOR NON-CLINICAL AREA)
- WALL FINISH: WATER-BASED (ANTI-MOULD) EMULSION PAINT SYSTEM
- FLOOR FINISH: HOMOGENEOUS VINYL SHEET (NON-SLIP) ON SCREED
- SKIRTING FINISH: VINYL-COVED WITH ALUMINUM EDGE FLOOR SLAB IMPOSED LOAD: 5kPa

中國建築工程(香港)有限公司

王歐陽(香港)有限公

SYW

DSCAPE DESIGNER

中國海龍建築科技有限公司

中建國際醫療產業發展有限公司

SS K514

001MZ & 116MH

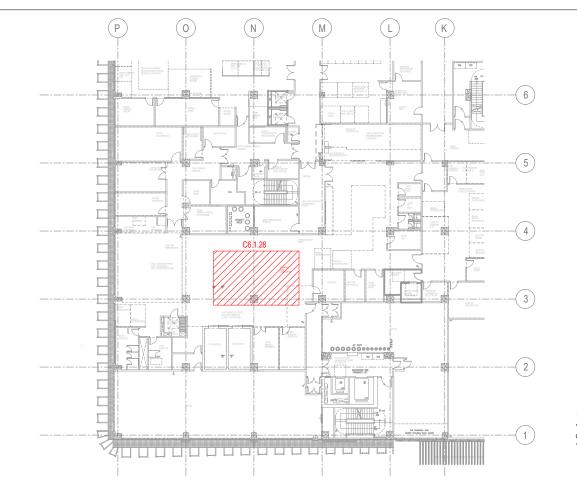
DESIGN AND CONSTRUCTION OF CHINESE MEDICINE HOSPITAL AND GOVERNMENT CHINESE MEDICINES TESTING NSTITUTE IN TSEUNG KWAN

COMPOSITE DRAWING OF LABORATORY AUTOMATION GENERAL NOTES, LEGEND AND

HECKED BY KT DATE AUG2023

BS/8515/A/COM/FPE-C6-04/00





3/F C6.1.28 COMBINED CORE LABORATORY KEY PLAN SCALE 1 : 500

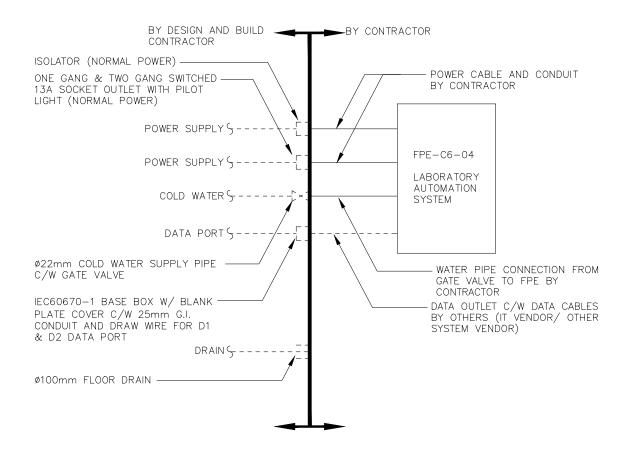
# D) EQUIPMENT SCHEDULE AND DESIGN AND BUILD CONTRACTOR'S PROVISIONS

FPE ITEM NO	DESCRIPTION (QUANTITY)	DESIGN AND BUILD CONTRACTOR'S PROVISIONS	FLOOR / AREA (SOA REF.)
FPE-C6-04	LABORATORY AUTOMATION SYSTEM (QTY: 1 SET)	1. POWER: 2 x 32A TPN ISOLATOR (NORMAL POWER); 3 x ONE GANG SWITCHED 13A SOCKET OUTLET WITH PILOT LIGHT (NORMAL POWER); 16 x TWO GANG SWITCHED 13A SOCKET OUTLET WITH PILOT LIGHT (NORMAL POWER)  2. DATA PORT: 7 x IEC60670-1 BASE BOX W/ BLANK PLATE COVER C/W 25mm G.I. CONDUIT AND DRAW WIRE FOR D1 DATA PORT; 9 x IEC60670-1 BASE BOX W/ BLANK PLATE COVER C/W 25mm G.I. CONDUIT AND DRAW WIRE FOR D2 DATA PORT 3. COLD WATER: 3 x Ø22mm COLD WATER SUPPLY PIPE C/W GATE VALVE 4. DRAIN: 4 x Ø100mm FLOOR DRAIN	3/F COMBINED CORE LABORATORY (C6.1.28)

# F) DRAWING LIST

DRAWING NO.	REVISION	DRAWING TITLE
BS/8515/A/COM/FPE-C6-04/001	2	COMPOSITE DRAWING OF LABORATORY AUTOMATION SYSTEM GENERAL NOTES, LEGEND AND KEY PLAN
BS/8515/A/COM/FPE-C6-04/002	3	COMPOSITE DRAWING OF LABORATORY AUTOMATION SYSTEM DEMARCATION DIAGRAM, EQUIPMENT SCHEDULE, DESIGN AND BUILD CONTRACTOR'S PROVISIONS AND DRAWING LIST
BS/8515/A/COM/FPE-C6-04/201	2	COMPOSITE DRAWING OF LABORATORY AUTOMATION SYSTEM 3F LAYOUT PLAN
BS/8515/A/COM/FPE-C6-04/901	3	COMPOSITE DRAWING OF LABORATORY AUTOMATION SYSTEM ELEVATION A

# E) DEMARCATION DIAGRAM:



COMPOSITE DRAWING SUBMISSION

IUMBER DESCRIPTION DATE 
 0
 FIRST SUBMISSION
 APR 2023

 1
 SECOND SUBMISSION
 AUG 2023
 2 THIRD SUBMISSION
3 FOURTH SUBMISSION DEC 2024

中国建築工程(香港)有限公司

SW

中國海龍建築科技有限公司

中建國際醫療產業發展有限公司

SS K514

001MZ & 116MH

PROJECT
DESIGN AND CONSTRUCTION
OF CHINESE MEDICINE
HOSPITAL AND GOVERNMENT
CHINESE MEDICINES TESTING

INSTITUTE IN TSEUNG KWAN

DRAWING THE

COMPOSITE DRAWING OF

LABORATORY AUTOMATION SYSTEM

DEMARCATION DIAGRAM,

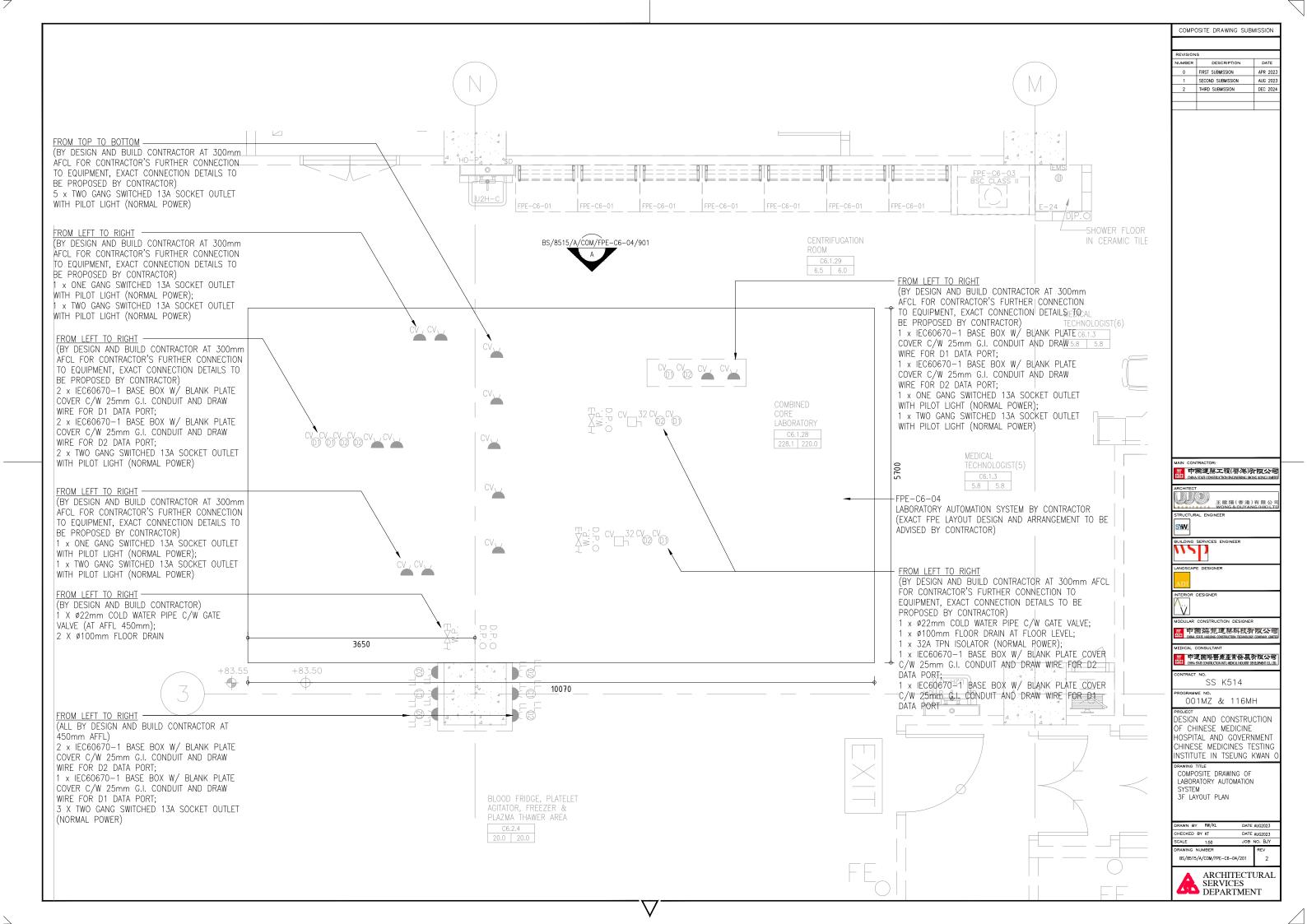
EQUIPMENT SCHEDULE, DESIGN AND

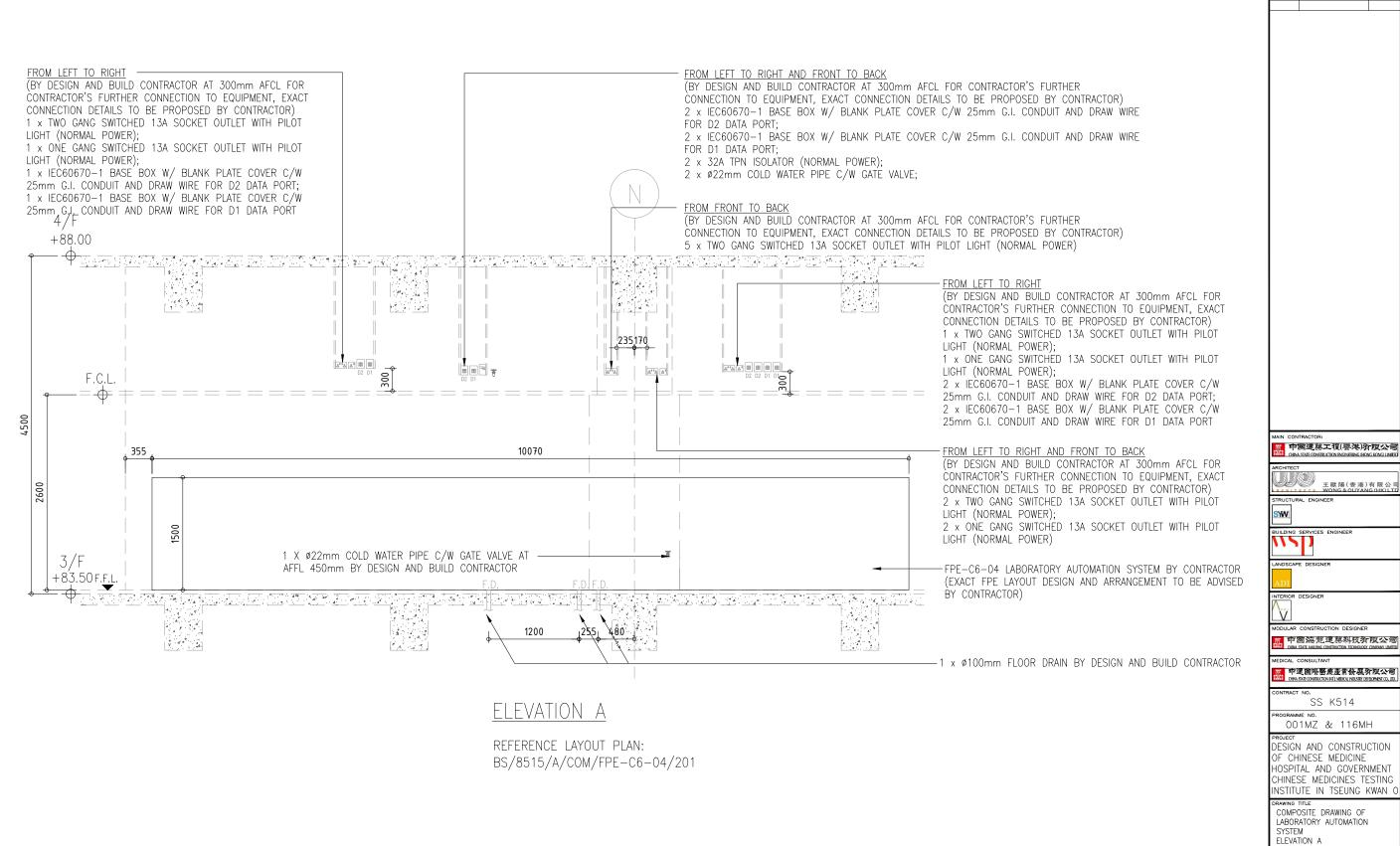
BUILD CONTRACTOR'S PROVISIONS

AND DRAWING LIST

DRAWN BY	RW/KL	DATE	AUG2023
CHECKED BY	KT	DATE	AUG2023
SCALE	N.T.S.	JOB I	vo. BJY
DRAWING NUM	MBER		REV
BS/8515/A/	3		







COMPOSITE DRAWING SUBMISSION

JMBER DESCRIPTION 0 FIRST SUBMISSION APR 202 1 SECOND SUBMISSION AUG 2023 DEC 202 3 FOURTH SUBMISSION JAN 2025

ECKED BY KT DATE AUG2023 BS/8515/A/COM/FPE-C6-04/901

