

CONTRACT CS011.A-12E

E&M SERVICES DIVERSION AND BUILDERS WORKS
FOR PLATFORM WALL BREAKTHROUGH AT ADM

TENDER DRAWINGS

TENDER ISSUE

2012

A00/001_CONTRACT DRAWING SCHEDULE						
DRAWING NUMBER		DRAWING TITLE			REVISION	SCALE
CS011.A-12E/T/ADM/MTR/	A00/000	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	CONTRACT COVER SHEET		A	NIL
CS011.A-12E/T/ADM/MTR/	A00/001	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	GENERAL NOTES AND LEGENDS	DRAWING LIST	A	NIL
CS011.A-12E/T/ADM/MTR/	A00/002	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	ABBREVIATIONS AND NOTES	INITIAL PHASE	A	NTS
CS011.A-12E/T/ADM/MTR/	A00/003	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	INITIAL PHASE - SYMBOLS & LEGEND		A	NTS (A1)
CS011.A-12E/T/ADM/MTR/	A00/007	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	INITIAL PHASE - GENERAL NOTES FOR BUILDER'S WORKS		A	NTS
CS011.A-12E/T/ADM/MTR/	C00/001	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	GENERAL NOTES (SHEET 1 OF 2)		A	NTS
CS011.A-12E/T/ADM/MTR/	C00/002	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	GENERAL NOTES (SHEET 2 OF 2)		A	NTS
CS011.A-12E/T/ADM/MTR/	D00/001	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	NOTES, LEGEND AND ABBREVIATION		A	NTS
CS011.A-12E/T/ADM/MTR/	E00/001	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	ES LEGEND AND ABBREVIATION		A	NTS
CS011.A-12E/T/ADM/MTR/	E00/002	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	ES GENERAL NOTES		A	NTS
CS011.A-12E/T/ADM/MTR/	F00/001	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	LEGEND, ABBREVIATION AND NOTE		A	NTS
CS011.A-12E/T/ADM/MTR/	F00/002	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	NEW SPRINKLER & FH/HR SYSTEM SCHEMATIC		A	NTS
CS011.A-12E/T/ADM/MTR/	F00/003	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING SPRINKLER & FH/HR SYSTEM SCHEMATIC		A	NTS
CS011.A-12E/T/ADM/MTR/	M00/001	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	ECS GENERAL NOTES		A	NTS
CS011.A-12E/T/ADM/MTR/	M00/002	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	ECS LEGEND AND ABBREVIATIONS		A	NTS

Grand total: 15

KEY PLAN						DRAWN		TITLE CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM GENERAL NOTES AND LEGENDS DRAWING LIST		
						DESIGNED				
						CHECKED				
						APPROVED				
						DATE	DEC 2012		ORIGINATOR	
						DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.			OPERATION DIVISION	
	A	FIRST ISSUE	CB	DEC 2012	DF			BIM REF.		
	REV	DESCRIPTION	BY	DATE	APP			SCALE NIL	FIGURE NO. A00/001	REV. A

1. GENERAL NOTES :

1.

INFORMATION SHOWN ON DRAWINGS INDICATES THE DESIGN INTENT. VARIATION ON PLAN AND INFORMATION FOUND ON SITE SHALL BE DRAWN TO THE ATTENTION OF THE ENGINEER.
2.

ALL DETAILS SHOWN ON DRAWINGS ARE DESIGN INTENT.THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL CONSTRUCTION DETAILS, COMPONENTS, ASSEMBLY, MATERIAL SIZES SUPPLEMENTED WITH SPECIFICATIONS AND NECESSARY CALCULATION FOR APPROVAL PRIOR TO COMMENCEMENT OF WORKS.
3.

ALL DIMENSIONS ARE MEASURED TO FINISH SURFACES AS PER MTRCL SITE SURVEY VALIDATIONS UNLESS OTHERWISE NOTED AND SHOULD BE VARIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS AND FABRICATION.
4.

ALL DIMENSIONS ARE IN MILLIMETER.
5.

STRUCTURAL FRAME OF ALL ROOF DECK SHALL BE CAPABLE OF RESISTING A UNIFORM IMPOSED LOAD OF 1.5 KPa.
6.

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH E&M, STRUCTURAL DRAWINGS AND THE SPECIFICATIONS AND THE CONDITIONS OF CONTRACT FOR INTERFACING WORKS AND ALL WORKS SHALL COMPLY WITH BUILDING REGULATION.
7.

ALL AFFECTED FINISHES SHALL BE MADE GOOD AFTER COMPLETION OF EACH SECTION OF THE WORKS AND TO THE SATISFACTION OF THE ENGINEER.
8.

THE CONTRACTOR SHALL CARRY OUT VERIFICATION OF ALL CONCEALED SERVICES PRIOR TO FLOOR EXCAVATION, WALL DEMOLITION AND/OR WALL CHIPPING AND SHALL REFER TO E&M, STRUCTURAL DRAWINGS FOR MORE INFORMATION.
9.

PROPOSED REFLECTED CEILING PLAN WITH E&M WORKS SHALL BE SUBMITTED FOR THE ENGINEER'S APPROVAL.
10.

ALL RELOCATION OF SIGNAGE WORKS SHALL INCLUDE ALL NECESSARY E&M EXTENSION SUCH AS FLOOR TRUNKING, CABLE TRAY, CABLE DISCONNECTION/CONNECTION AND T&C ETC. SUBMISSION SHALL BE PROVIDED FOR THE ENGINEER'S APPROVAL.
11.

ALL CONDUIT & SERVICES LOCATED AT PUBLIC AREA SHALL BE CONCEALED AND NECESSARY ACCESS PANELS/JUNCTIONS BOX SHALL BE PROVIDED FOR THE ENGINEER'S APPROVAL.
12.

EXACT LOCATION/POSITION OF NEW AND RELOCATED ADV. PANELS, SIGNAGES & STATION FURNITURE TO BE DETERMINED BY THE ENGINEER ON SITE.
13.

ALL NEW STATION SIGNS SHALL BE PROVIDED BY THE EMPLOYER AND INSTALLED BY THE CONTRACTOR. ALL NEW CEILING MOUNTED SIGNS ARE COMPLETE WITH 3000mm LONG STANDARD HANGERS. IF THE STANDARD HANGER ARE NOT SUITABLE FOR THE NEW LOCATION, THE CONTRACTOR IS RESPONSIBLE TO DESIGN, SUMIT SHOP DRAWINGS AND CALCULATION, SUPPLY & INSTALL SPECIAL HANGERS TO SUIT NEW LOCATION.
14.

ALL EXISTING DRAINAGE SUCH AS MANHOLE, PIPES, GULLY & FLOOR DRAIN SHALL BE REARRANGED/ MODIFIED TO SUIT THE NEW LAYOUT AND SUBMIT FOR THE ENGINEER'S APPROVAL.
15.

ALL SETTING-OUT SHALL BE MARKED ON SITE AND AGREED BY THE ENGINEER PRIOR TO WORKING.
16.

ANY DISCREPANCIES SHALL BE NOTIFIED TO THE ENGINEER PRIOR TO THE EXECUTION OF THE WORKS.
17.

EXISTING FIXTURES AND FINISHES SHALL BE PROTECTED FROM DAMAGES, EXISTING FIXTURES AND FINISHES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED, REINSTATED OR MADE GOOD AT THE CONTRACTOR'S EXPENSE TO THE SAME STANDARD OF EXISTING AND TO THE SATISFACTION OF THE ENGINEER.
18.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE VALIDATION, PROTECTION & MODIFICATION WORKS TO SUIT SITE CONDITIONS.
19.

REINFORCED CONCRETE KICKER SHALL BE PROVIDED AROUND PIPES, CABLES AND TRUNKING THROUGH THE FLOOR SLAB.
20.

REINFORCED CONCRETE PLINTH SHALL BE PROVIDED FOR ALL E&M EQUIPMENTS. DETAILS, LOCATION & QUANTITY SHALL BE REFERRED TO E&M DRAWINGS.
21.

ALL REMOVAL/DEMOLITION WORKS OF WALL PANEL AND CEILING PANEL SHALL INCLUDE ITS SUPPORTING FRAMING AND FOOTINGS EMBEDDED IN FLOOR FINISHES.
22.

ALL FURNITURE AND FIXTURES INSIDE THE AFFECTED AREA SHALL BE MOVED & RE-INSTALLED BY THE CONTRACTOR. THE NEW LOCATION SHALL BE CONFIRMED ON SITE.
23.

THE HANGER OF EXISTING CEILING MOUNTED PIDS, SIGNAGE AND NEW SIGNAGE MAY NOT SUITABLE FOR NEW LOCATION. THE CONTRACTOR DO NECESSARILY MODIFY AND PROVIDE ADDTION HANGER FOR MOUNTING ONTO THE STRUCTURAL SOFFIT. CALCULATION OF HANGER SHALL BE SUBMITTED FOR APPROVAL.
24.

ALL PARAPET WHICH PREVENTS PERSONS FROM FALLING WITH A HEIGHT DIFFERENCE MORE THAN 600mm SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND AN UNIFORM HORIZONTAL LOAD OF 3kN/m AT 1.1m HEIGHT FROM GROUND.
25.

ALL THE RETRACTABLE STAINLESS STEEL BARRIER SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND AN UNIFORM HORIZONTAL LOAD OF 0.75kN/m AT THE TOP RAIL WHICH IS NOT LESS THAN 1.1m HIGH.A STATIC LOADING TEST OF 1.5 TIMES DESIGN LOAD SHALL BE CONDUCTED WITH MAXIMUM DEFLECTION NOT EXCEED 10mm.
26.

ALL STRUCTURAL STEEL ELEMENTS TO BE PROTECTED WITH INTUMESCENT FIRE PROTECTED PRINTING SYSTEM OR FIRE RATED MINERAL FIBRE BOARD TO GIVE THE APPROPRIATE FIRE RESISTING PERIOD AS STATED ON THE DRAWINGS.
27.

SETTING OUT OF BLOCK WORK WALL SHOWN ON ARCHITECTURAL DWGS UNO. CONCRETE WALLS ARE TO BE ALIGNED WITH RC WALLS WHERE ADJACENT SUCH THAT CORRIDOR FACE OR PRIMARY FACE IS CO-PLANAR.
28.

SETTING OUT OF E&M OPENINGS.PENETRATIONS.PLINTHS,KERBS, BUNDS,LIFTING BEAMS & HOOKS ETC ARE SHOWN ON SEM AND STRUCTURAL DWGS.
29.

FOR INTERFACE DETAILS OF ABWF AND E&M BUILDING SERVICES REFER TO THE E&M INTERFACE DETAILS.
30.

REFER TO VARIOUS SSCC DRAWINGS (SERIES REF A22) FOR FIRE SAFETY RELATED REQUIREMENTS; IN PARTICULAR.REFER TO SSCC STAGE 1 DWGS FOR FRP,AND SSCC STAGE 2A DWGS FOR EXIT SIGNS IN BOH AREAS.

31.

HOSE REELS / HYDRANTS / FIRE EXTINGUISHERS IN PUBLIC AREAS ARE ALL HOUSED WITHIN CABINETS WITH STAINLESS STEEL / VE / STONE CLADDED DOORS. HOSE REELS / HYDRANTS IN BOH (PLANTROOM) AREAS ARE SURFACE MOUNTED ONTO WALLS.WITHOUT ENCLOSURE,UNO.
32.

ALL OPENINGS IN FLOOR SLAB TO HAVE RC UPSTAND KERB 150MM AFFL.
33.

REFER TO MTR CADD MANUAL FOR FULL LISTING OF ABBREVIATIONS.
34.

UNLESS OTHERWISE NOTED,ALL DOOR OPENINGS IN BLOCKWORK WALLS TO BE SET-OUT AS ILLUSTRATED IN DRAWINGS.
35.

HORIZONTAL JOINT OF WALL PANEL & SKINTING SHALL BE ALIGNED WITH ADJACENT EXISTING.
36.

EXACT LOCATION OF FLOOR DRAIN SHALL BE DETERMINED AND AGREED ON SITE.
37.

EXIT SIGN COMPLYING WITH LATEST REQUIREMENT OF FSD FRONT FANEL SHALL BE MADE OF FLAME RESISTANCE AND TESTED TO 508A OF BS 2782 C/W SELF-MAINTANINED. CONTAINED TYPE BATTERY INVERTER STARTER FOR 3 HOURS MAINTAINED OPERATING DURING POWER FAILURE. THE EXIT SIGN SHALL BE PROVIDED WITH SECONDARY BATTERY IN ACCORDANCE WITH BRITISH STANDARD 5266 PART. VOLTAGE PATING SHALL BE 240±10% AND BATTERY SHALL MEET IEC61951 SIZE: 410(L)x180(H)x95(D)mm
10w LAMP WITH WHITE COLOUR BOX AND GREEN LETTERS
38.

TEMPORARY FIRE RETARDANT FABRIC CEILING (2mx2m) FIXED TO TEMPORARY SUSPENDED FRAME.

2. METAL WORKS :

1.

STAINLESS STEEL PLATE, SHEET AND STRIP TO BS 1449: PART 2, GRADE 316, S16.
2.

ALL MILD STEEL SHALL BE GRADE 43A TO BS4306.
3.

SYNTHETIC RUBBER, GASKET BUFFERS, WASHERS, SPACER, SEATING STRIPS TO BS 4255: PART 1,COLOUR BLACK TO APPROVAL.
4.

STEEL TUBES TO BS1775, OTHER STEEL COMPONENTS TO RELEVANT BS.
5.

WELDING SHALL BE CARRIED OUT WITH BS 693 AND BS 5135 OR OTHER APPROVED METHODS.
6.

ALL FILLET WELDS SHALL BE FULL PENETRATION OF A MINIMUM OF 6mm-LEG SIZE AND EQUAL TO THE THICKNESS OF THE STEEL ELEMENTS.
7.

ALUMINIUM ALLOY SHALL BE EXTRUDED ROUND TUBE TO BS 1474, ALLOY DESIGNATION 6063 AND APPROVED.
8.

ALL MILD STEEL TO BE HOT DIP GALVANIZED TO BS EN 1461 BEFORE INSULATION, MINIMUM GALVANIZED THICKNESS SHALL BE 85 MICRONS.
9.

EDGE DISTANCE OF ALL DRILLED HOLES TO BE IN ACCORDANCE WITH BS 5950.
10.

ALL BOLTS & NUTS TO BE GRADE 4.6 TO BS 4190, AND WASHERS COMPLY WITH BS 4320 SHALL BE PROVIDED.
11.

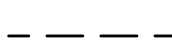


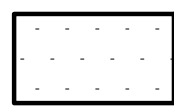
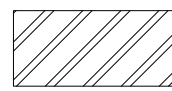

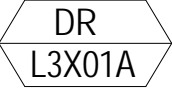
ANY CONNECTION DETAILS NOT SHOWN IN THE DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED FOR THE ENGINEER'S APPROVAL.
12.

ALL STAINLESS STEEL POP RIVET SHALL COMPLY WITH BS 7349: PART 2: 1993.
13.

AT CONTACT BETWEEN STAINLESS STEEL BOLT/NUT AND STRUCTURAL MILD STEEL ELEMENTS, A PLASTIC WASHER SHALL BE ADDED AS AN ISOLATOR.
14.


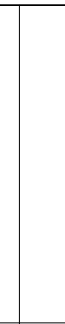


















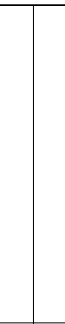

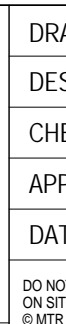

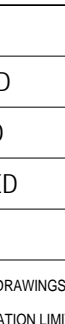






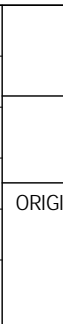









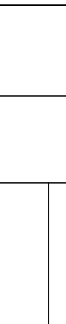































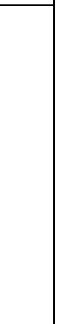

AT CONTACT BETWEEN STAINLESS STEEL ELEMENTS AND STRUCTURAL MILD STEEL ELEMENTS, A CONTINUOUS STRIP OF NEOPRENE SHALL BE ADDED AS AN ISOLATOR.

3. LEGEND

	EXISTING BUILDER'S WORK TO BE DEMOLISHED		WORKS BOUNDARY
	EXISTING WALL		EXTENT OF WORKS (PLANTROOM MODIFICATION)
	NEW BLOCKWORK WALL		EMERGERCY EXIT (SEE GENERAL NOTE 37)
	NEW DOOR		

4. ABBREVIATION

ADM	ADMIRALTY STATION	mPD	LEVEL IN METRES RELATIVE TO HONG KONG PRINCIPLE DATUM
ABWF	ARCHITECTURAL BUILDERS WORKS AND FINISHES	MPR	MULTI-PROCESSOR
AC	ACCESS COVER	MS	MILD STEEL
ACU	AUXILIARY COMMUNICATIONS UNIT	NOM.	NOMINAL
ADB	AUTOMATIC DROP BARRIER	NO.	NUMBER
AFC	AUTOMATIC FARE COLLECTION	NTS	NOT TO SCALE
AFFL	ABOVE FINISHED FLOOR LEVEL	OTE	OVER TRACK EXHAUST DUCT
AHU	AIR HANDLING UNIT	P/D	PIPE DUCT
APPROX	APPROXIMATELY	P&D	PLUMBING & DRAINAGE
ATM	AUTOMATIC TELLER MACHINE	PEP	EMERGENCY STOP PLUNGER
AVM	ADD VALUE MACHINE	PER	POWER EQUIPMENT ROOM
BOH	BACK OF HOUSE	PID	PASSENGER INFORMATION DISPLAY
BSVS	BACK OF HOUSE SUPPLY VENT SHAFT	PS	PARTICULAR SPECIFICATION
BEVS	BACK OF HOUSE EXHAUST VENT SHAFT	PSB	PLATFORM SUPERVISOR BOOTH
C/C	CENTRE TO CENTRE	PSD	PLATFORM SCREEN DOOR
CJ	CONSTRUCTION JOINT	PSV	PRE-ACTION SPRINKLER VALVE CHAMBER
CL	CAT LADDER	RC/R.C.	REINFORCED CONCRETE
C.L.	CEILING LEVEL	RCP	REFLECTED CEILING PLAN
¢	CENTRE LINE	REF	REFERENCE
C&C	CONTROL AND COMMUNICATION	RHS	RECTANGULAR HOLLOW SECTION
C.H.S.	CIRCULAR HOLLOW SECTION	RM	ROOM
CONC	CONCRETE	RWO	RAIN WATER OUTLET
CONT.	CONTINUOUS	RWP	RAIN WATER PIPE
C/S	CEMENT / SAND	NON-FS	NON-FIRE SERVICES
C/W	COMPLETE WITH	SCL(NSL)	SHATIN TO CENTRAL LINK(NORTH SOUTH LINE)
CTR	CABLE TERMINATION ROOM	SCR	STATION CONTROL ROOM
CTER	COMMON TELECOM EQUIPMENT ROOM	SIL	SOUTH ISLAND LINE
CUC	CUSTOMER SERVICE CENTRE	SED	SMOKE EXTRACT DUCT
D/T	DOWN TRACK	SEE	SUPPLEMENTARY EMERGENCY ENTRANCE
DEE	DESIGNATED EMERGENCY ENTRANCE	SEM	STRUCTURAL ELECTRICAL & MECHANICAL
DIA	DIAMETER	SFL	STRUCTURAL FLOOR LEVEL
DIV.	DIVIDER	SH	SHUTTER
DN	DOWN	SIM.	SIMILAR
DR	DOOR	SOP	SETTING OUT POINT
DWG	DRAWING	SEVS	STATION EXHAUST VENT SHAFT
ECC	ESCALATOR CONTROL CABINET	SER	SIGNALING EQUIPMENT ROOM
ECS	ESCALATOR CONTROL SYSTEM	SFH	STREET FIRE HYDRANT
ELEC	ELECTRICAL RISER	S.MCC	STATION MOTOR CONTROL CENTRE
EO	EQUAL	S.Q.	SQUARE
E&M	ELECTRICAL AND MECHANICAL	SS/S.S.	STAINLESS STEEL
ESC	ESCAPE	S/S	STAINLESS STEEL
EX/EXTG	EXISTING	SSCC	SAFETY & SECURITY COORDINATING COMMITTEE
EVA	EMERGENCY VEHICULAR EVACUATION ROUTE	SSP	SELF SERVICES POINT
EVS	EXHAUST VENT SHAFT	SSVS	STATION SUPPLY VENT SHAFT
FCL	FINISHED CEILING LEVEL	SPS	STAIRCASE PRESSURIZATION SUPPLY
FD	FLOOR DRAIN	SPR	STAIRCASE PRESSURIZATION RELIEF
FFL/F.F.L.	FINISHED FLOOR LEVEL	SVS	SUPPLY VENT SHAFT
FH	FIRE HYDRANT	SW	SYSTEM WIDE
FHR	FIRE HYDRANT & HOSE REEL	TBC	TO BE CONFIRMED
FIN	FINISH	TEF	TRACKSIDE EXHAUST FAN
FL	FLOOR	TER	TELECOM EQUIPMENT ROOM
FOH	FRONT OF HOUSE	THK/T	THICK
FRP	FIRE RATED PERIOD	T&C	TESTING & COMMISSIONS
FS	FIRE SERVICE	TM	TICKET ISSUING MACHINE
FSI	FIRE SERVICE INLET	T.MCC	TRACKSIDE MOTOR CONTROL CENTRE
FW	FILLET WELDED	T.O.R	TOP OF RAIL
GA	GENERAL ARRANGEMENT	TSF	TRACKSIDE SUPPLY FAN
GL	GRID LINE	TVF	TUNNEL VENTILATION FAN
GMS	GALVANIZED MILD STEEL	TVS	TUNNEL VENT SHAFT
H.	HEIGHT	TWL	TSUEN WAN LINE
H/L	HIGH LEVEL	TEVS	TRACKWAY EXHAUST VENT SHAFT
HWU	HEAD WALL UNIT	TSVS	TRACKWAY SUPPLY VENT SHAFT
TWU	TAIL WALL UNIT	TWU	TAIL WALL UNIT
ISL	ISLAND LINE	TYP	TYPICAL
KOB	KNOCK OUT BLOCKWORK	TX	TRANSFORMER
LPR	LOBBY PRESSURIZATION RELIEF	U/T	UPPER TRACK
LEV.	LEVEL	UP	UP
L.W.	LIGHT WEIGHT	UPD(UPS)	UNDER PLATFORM DUCK(SUPPLY)
LSR	LIFT SHAFT RELIER	UNO	UNLESS NOTED OTHERWISE
LV	LOW VOLTAGE	VE/V.E.	VITREOUS ENAMEL
LO	LOUVRE	VEM	VENDING MACHINE
MCC	MOTOR CONTROL CENTRE	W/	WITH
MIN.	MINIMUM	W	WIDE
MAX.	MAXIMUM	WT	WEIGHT
m	METRE(S) (OR m)		
MJ	MOVEMENT JOINT		
mm	MILLIMETRE(S) (OR mm)		

KEY PLAN																																																																																																																																									
----------	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--

GRID NUMBERING		GENERAL REFERENCES		MISCELLANEOUS SYMBOLS		MISCELLANEOUS SYMBOLS		REFLECTED CEILING PLAN SYMBOLS	
<div><div><div></div></div><div>GRID LINE</div></div> <div><div><div>A</div></div><div>LONGITUDINAL STRUCTURAL GRID CODED A-B</div></div> <div><div><div>1</div></div><div>TRANSVERSE STRUCTURAL GRID CODED 1-16</div></div>		<div><div><div></div></div><div>MATCH LINE</div></div> <div><div><div>DR XXXXXX</div></div><div>DOOR REFERENCE NUMBER</div></div> <div><div><div>CL XX</div></div><div>CAT LADDER REFERENCE NUMBER</div></div> <div><div><div>AC XX</div></div><div>ACCESS COVER REFERENCE NUMBER</div></div> <div><div><div>SH XX</div></div><div>ROLLER SHUTTER REFERENCE NUMBER</div></div> <div><div><div>WO XX</div></div><div>WINDOW REFERENCE NUMBER</div></div> <div><div><div>INF-03A ADMXXX</div></div><div>SIGNAGE REFERENCE NUMBER</div></div> <div><div><div>INF-03A ADMXXX</div></div><div>SIGN TYPE</div></div> <div><div><div>INF-03A ADMXXX</div></div><div>SIGN NO.</div></div> <div><div><div>INF-03A ADMXXX</div></div><div>PREFIX FOR STATION ADM - ADMIRALTY</div></div> <div><div><div>SS01</div></div><div>MATERIAL CODE</div></div> <div><div><div></div></div><div>DOOR</div></div> <div><div><div></div><div>A</div></div><div>DETAIL MARK</div></div> <div><div><div></div><div>A</div></div><div>DETAIL MARK REFERENCE TO COMMON DRAWING PACKAGE</div></div> <div><div><div>906</div></div></div>		<div><div><div></div></div><div>NORTH POINT</div></div> <div><div><div></div></div><div>TYPICAL VOID</div></div> <div><div><div></div></div><div>VOID ABDVE</div></div> <div><div><div>RS</div></div><div>ROLLER SHUTTER</div></div> <div><div><div>FS</div></div><div>FIRE SHUTTER</div></div> <div><div><div></div></div><div>ABOVE</div></div> <div><div><div></div></div><div>BELOW</div></div> <div><div><div>ADB</div></div><div>AUTOMATIC DROP BARRIER</div></div> <div><div><div>CJ</div></div><div>CONSTRUCTION JOINT</div></div> <div><div><div></div></div><div>DRAINAGE CHANNEL W/COVER</div></div> <div><div><div>CL</div></div><div>CENTRE LINE</div></div> <div><div><div>T</div></div><div>PAY PHONE</div></div> <div><div><div>SEAT</div></div><div>PLATFORM SEATING</div></div> <div><div><div></div></div><div>ESCALATOR WORKING POINT</div></div> <div><div><div>CIS</div></div><div>CUSTOMER INFORMATION STAND</div></div> <div><div><div>ACU</div></div><div>AUXILIARY COMMUNICATION'S UNIT</div></div> <div><div><div></div></div><div>STATION BOUNDARY</div></div> <div><div><div></div></div><div>GAZETTE BOUNDARY</div></div> <div><div><div></div></div><div>BRILLE MAP</div></div> <div><div><div></div></div><div>CAT LADDER</div></div> <div><div><div></div></div><div>CAT LADDER WITH SAFTY HOOP</div></div> <div><div><div></div></div><div>HELP LINE</div></div> <div><div><div>SOP</div></div><div>SETTING OUT POINT</div></div> <div><div><div>B</div></div><div>LITTER BIN</div></div> <div><div><div>BA</div></div><div>LITTER BIN WITH ASHTRAY</div></div> <div><div><div>RB</div></div><div>RECYCLE BIN</div></div>		<div><div><div>FHR</div></div><div>FIRE HOSE REEL (FOH)</div></div> <div><div><div>FHR</div></div><div>FIRE HOSE REEL</div></div> <div><div><div></div></div><div>RC WALL</div></div> <div><div><div></div></div><div>BLOCKWORK WALL 2 HR FRP</div></div> <div><div><div></div></div><div>2 HR FRP HOARDING</div></div> <div><div><div>PEP</div></div><div>EMERGENCY STOP PLUNGER</div></div> <div><div><div></div></div><div>ACCESS PANEL</div></div> <div><div><div>KOB</div></div><div>KNOCK-OUT BLOCKWORK WALL</div></div> <div><div><div>FB</div></div><div>FLOOD BOARD CUPBOARD</div></div> <div><div><div>FD</div></div><div>DRAIN AT WALL</div></div>		<div><div><div></div></div><div>FLUORESCENT LIGHT WITH GRID DIFFUSER (BOH)</div></div> <div><div><div></div></div><div>FLUORESCENT LIGHT TRAY</div></div> <div><div><div></div></div><div>FLUORESCENT BOOM LIGHT FITTING</div></div> <div><div><div></div></div><div>CONCEALED FLUORESCENT LIGHT LUMINAIRE</div></div> <div><div><div></div></div><div>SUPPLY AIR LINEAR DIFFUSER (BETWEEN PANELS)</div></div> <div><div><div></div></div><div>SUPPLY AIR DIFFUSER (BOH)</div></div> <div><div><div></div></div><div>RETURN AIR DIFFUSER (BOH)</div></div> <div><div><div></div></div><div>AIR EXHAUST LINEAR DIFFUSER (TOILET)</div></div> <div><div><div></div></div><div>AIR GRILLE</div></div> <div><div><div></div></div><div>SUPPLY AIR DIFFUSER (FOH)</div></div> <div><div><div></div></div><div>RECESSED DOWNLIGHT</div></div> <div><div><div></div></div><div>RECESSED DOWNLIGHT (For Atrium)</div></div> <div><div><div></div></div><div>SMOKE DETECTOR</div></div> <div><div><div></div></div><div>REMOTE SMOKE INDICATOR</div></div> <div><div><div></div></div><div>RECYCLING THERMAL DETECTOR</div></div> <div><div><div></div></div><div>SPRINKLER HEAD</div></div> <div><div><div></div></div><div>SPEAKER</div></div> <div><div><div></div></div><div>NOISE SENSOR</div></div> <div><div><div></div></div><div>MOBILE PHONE ANTENNA</div></div> <div><div><div></div></div><div>LINE OF SMOKE CURTAIN</div></div> <div><div><div></div></div><div>LCX</div></div> <div><div><div></div></div><div>CCTV</div></div> <div><div><div></div></div><div>CCTV (DOME TYPE)</div></div> <div><div><div>PIDS</div></div><div>PIDS</div></div> <div><div><div>C</div></div><div>CLOCK</div></div> <div><div><div></div></div><div>FIRE PROTECTED CEILING AT FIRE PROTECTED ROUTE (BOH)</div></div> <div><div><div></div></div><div>ACCESS PANEL FOR FIRE PROTECTED CEILING AT FIRE PROTECTED ROUTE (BOH)</div></div> <div><div><div></div></div><div>SMOKE BARRIER (ABOVE CEILING)</div></div> <div><div><div>GSB</div></div><div>GLASS SMOKE BARRIER (FOH SCL LEVEL CAVERN AREA)</div></div> <div><div><div></div></div><div>CEILING MOUNTED SIGNAGE (2 SIDES) 1 LEG / 2 LEGS</div></div> <div><div><div></div></div><div>CEILING MOUNTED SIGNAGE (1 SIDE) 1 LEG / 2 LEGS</div></div> <div><div><div></div></div><div>BEAM DETECTOR "T" DENOTED TRANSMITTER / "R" DENOTED RECEIVER</div></div>	
GENERAL REFERENCES		DATUM & LEVEL IDENTIFIERS		BLOCKWORK SYMBOLS		BLOCKWORK SYMBOLS			
<div><div><div><div>SECTION REFERENCE</div><div>00</div><div>A00/000</div></div><div>TYPICAL SECTION DRAWING REFERENCE</div></div><div><div><div>ELEVATION REFERENCE</div><div>00</div><div>A00/000</div></div><div>TYPICAL ELEVATION DRAWING REFERENCE</div></div><div><div><div>ROOM NUMBER</div><div>RF = ROOF</div><div>GF = GROUND FLOOD</div><div>L1 = CONCOURSE</div><div>L2 = UPPER PLATFORM</div><div>L3 = LOWER PLATFORM</div><div>L4 = MEZZ. LEVEL</div><div>L5 = SCL LEVEL</div><div>L6 = SIL LEVEL</div><div>L7 = UNDER SIL LEVEL</div><div>L8 = MOA LEVEL</div></div><div><div><div>PREFIX FOR AREA TYPE</div><div>B = BACK OF HOUSE</div><div>P = PLANT ROOM</div><div>F = PLATFORM</div></div><div><div><div>ROOM/AREA IDENTITY NUMBER</div><div>L5 - B11</div></div><div><div><div>ROOM NAME</div><div>XXX XXX</div></div><div><div><div>ROOM AREA</div><div>XXsq.m</div></div></div></div></div></div></div></div>		<div><div><div><div><div>-25.360 FFL</div><div>-25.360 FFL</div></div><div>SPOT FINISHED LEVEL IN PLAN</div></div><div><div><div>-25.360 FFL</div><div>-25.360 FFL</div></div><div>FINISHED FLOOR LEVEL IN ELEVATIONS AND SECTION</div></div><div><div><div>-25.360 FFL</div><div>-25.360 FFL</div></div><div>FINISHED CEILING LEVEL IN ELEVATION AND SECTION</div></div><div><div><div>-25.460 SSL</div><div>+0.000 SSL</div></div><div>SPOT STRUCTURAL LEVEL IN PLAN</div></div><div><div><div>+0.000 SSL</div><div>+0.000 SSL</div></div><div>STRUCTURAL LEVEL IN ELEVATIONS AND SECTION</div></div><div><div><div>+0.000 SSL</div><div>+0.000 SSL</div></div><div>STRUCTURAL SOFFIT LEVEL IN ELEVATIONS AND SECTIONS</div></div><div><div><div>TOR</div><div>-32.000</div></div><div>TOR OF RAIL LEVEL IN ELEVATIONS AND SECTIONS</div></div></div></div>		<div><div><div></div></div><div>CONCRETE BLOCKWORK WALL ON ELEVATION</div></div> <div><div><div></div></div><div>INDICATES CROSS WALL BEHIND</div></div> <div><div><div></div></div><div>REINFORCED CONCRETE BLOCKWORK PIER</div></div> <div><div><div></div></div><div>RC LINTEL</div></div> <div><div><div></div></div><div>DOOR OR ACCESS OPENING</div></div>					
GENERAL REFERENCES		FLOORING SYMBOLS		BLOCKWORK SYMBOLS		BLOCKWORK SYMBOLS			
<div><div><div>LO-XX</div></div><div>LOUVRE NUMBER</div></div> <div><div><div>S07</div></div><div>STAIR NUMBER</div></div> <div><div><div>E08</div></div><div>ESCALATOR NUMBER</div></div> <div><div><div>L03</div></div><div>LIFT NUMBER</div></div>		<div><div><div></div></div><div>ACCESS COVER</div></div> <div><div><div></div></div><div>TACTILE TYPE A - ORIENTATION</div></div> <div><div><div></div></div><div>TACTILE TYPE B - HAZARD</div></div> <div><div><div></div></div><div>TACTILE TYPE C - DIRECTION</div></div> <div><div><div>FD</div></div><div>FLOOR DRAIN</div></div> <div><div><div>RWO</div></div><div>RAIN WATER OUTLET</div></div> <div><div><div></div></div><div>NON STANDARD TILE SETTING OUT</div></div>		<div><div><div></div></div><div>CONCRETE BLOCKWORK WALL ON ELEVATION</div></div> <div><div><div></div></div><div>INDICATES CROSS WALL BEHIND</div></div> <div><div><div></div></div><div>REINFORCED CONCRETE BLOCKWORK PIER</div></div> <div><div><div></div></div><div>RC LINTEL</div></div> <div><div><div></div></div><div>DOOR OR ACCESS OPENING</div></div>					
GENERAL REFERENCES		FLOORING SYMBOLS		BLOCKWORK SYMBOLS		BLOCKWORK SYMBOLS			
<div><div><div><div>SECTION REFERENCE</div><div>00</div><div>A00/000</div></div><div>TYPICAL SECTION DRAWING REFERENCE</div></div></div>		<div><div><div>LO-XX</div></div><div>LOUVRE NUMBER</div></div> <div><div><div>S07</div></div><div>STAIR NUMBER</div></div> <div><div><div>E08</div></div><div>ESCALATOR NUMBER</div></div> <div><div><div>L03</div></div><div>LIFT NUMBER</div></div>		<div><div><div></div></div><div>CONCRETE BLOCKWORK WALL ON ELEVATION</div></div> <div><div><div></div></div><div>INDICATES CROSS WALL BEHIND</div></div> <div><div><div></div></div><div>REINFORCED CONCRETE BLOCKWORK PIER</div></div> <div><div><div></div></div><div>RC LINTEL</div></div> <div><div><div></div></div><div>DOOR OR ACCESS OPENING</div></div>					

KEY PLAN		<div><div><div></div></div><div></div></div>						<div><div><div>DRAWN</div></div><div></div></div> <div><div><div>DESIGNED</div></div><div></div></div> <div><div><div>CHECKED</div></div><div></div></div> <div><div><div>APPROVED</div></div><div></div></div> <div><div><div>DATE</div></div><div>NOV 2012</div></div> <div><div><div>DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.</div><div>©MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING/DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THIS DRAWING/DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.</div></div></div>	<div><div></div></div> <div>OPERATION DIVISION</div> <div><div>BIM REF.</div></div>		<div>TITLE</div> <div>CS011.A-12E</div> <div>E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM</div> <div>INITIAL PHASE - SYMBOLS & LEGEND</div>	<div>SCALE</div> <div>NTS (A1)</div>	<div>FIGURE NO.</div> <div>A00/003</div>	<div>REV.</div> <div>A</div>
		<div>REV</div>	<div>DESCRIPTION</div>	<div>BY</div>	<div>DATE</div>	<div>APP</div>								
		<div>A</div>	<div>TENDER DRAWING</div>	<div>CB</div>	<div>NOV 2012</div>	<div>DF</div>								

DOORS

NOTE:

1. FOR FULL DESCRIPTION OF DOOR REFER TO M&W SPECIFICATION FOR ARCHITECTURAL BUILDER'S WORK & FINISHES + PARTICULAR SPECIFICATION.
2. NOMINAL STRUCTURAL OPENING HEIGHT EQUALS NOMINAL DOOR HEIGHT PLUS 160mm OR 60mm. SEE 'DOOR TYPES' DRAWINGS FOR REQUIREMENT ON FLOOR FINISH THICKNESS OR KERB HEIGHT WHICH DETERMINES REQUIRED STRUCTURAL OPENING HEIGHT.
3. NOMINAL STRUCTURAL OPENING WIDTH EQUALS NOMINAL DOOR WIDTH PLUS 120mm.
4. FOR DOOR TYPES SEE DWGS. A53/201.
5. FOR HEAD AND JAMB DETAILS SEE DWG. A53/202.
6. FOR THRESHOLD DETAILS SEE DWG. A53/202.
7. THIS SCHEDULE ONLY INDICATES STATUTORY SIGNS ON THE DOORS AND DOES NOT INCLUDE OPERATIONAL SIGNS OR NOTICES.
8. FOR DOOR IRONMONGERY SET REFER TO IRONMONGERY SCHEDULE DWGS. A49/201.
9. ALL HEAD & JAMB SHOULD BE STANDARDIZED WITH 25mm PROJECTION FROM OUTER FACE OF THE STRUCTURE WALL.
10. ELECTRICAL REQUIREMENTS ARE INDICATED IN DOOR IRONMONGERY SET SCHEDULE.
11. FOR IRONMONGERY SET TYPE REFER TO DWG. A49/201.
12. IF HANDING IS NOT SPECIFIED IN SCHEDULE, REFER TO PLANS, NOTING THAT PUBLIC, OR ACCESS SIDE OF DOOR HAS ACCESS CONTROL WHERE SPECIFIED.

LEGEND :

SS304 - GRADE 304 STAINLESS STEEL
SS316 - GRADE 316 STAINLESS STEEL
GMS - GALVANIZED MILD STEEL (WITH PAINT FINISH)
RH - RIGHT HAND
LH - LEFT HAND
RHR - RIGHT HAND REVERSE
LHR - LEFT HAND REVERSE
RHA - RIGHT HAND ACTIVE (PAIR DOORS ONLY)
RHRA - RIGHT HAND REVERSE ACTIVE (PAIR DOORS ONLY)

IRONMONGERIES

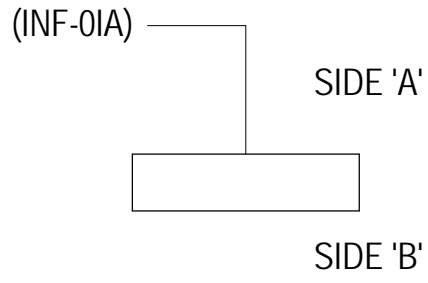
NOTE :

1. FOR FULL DESCRIPTION OF IRONMONGERY REFER TO M&W SPECIFICATION FOR ARCHITECTURAL BUILDER'S WORK & FINISHES + PARTICULAR SPECIFICATION.
2. KICK PLATES ON PUSH SIDE UNLESS DOOR FACES PUBLIC AREA.
3. CLOSER TO BE MOUNTED ON THE ROOM SIDE FROM WHICH DOOR CODE IS DERIVED.
4. DOOR SPECIFIED WITH AIR TIGHTNESS TO BE PROVIDED WITH AIR SEAL.
5. EITHER ELECTRIC LOCK OR ELECTRIC STRIKE WILL BE REQUIRED FOR SECURITY ACCESS MANAGEMENT (SAMS) DOOR SUBJECT TO OPERATIONS REQUIREMENT. FOR DETAILS OF ELECTRIC LOCK, ELECTRIC STRIKE & ASSOCIATED COMPONENTS REFER TO DWG. MTR/S/000/MTR/A53/001.
6. SAFE, UNOBSTRUCTED EGRESS IS TO BE ACHIEVED FROM ALL ROOMS.

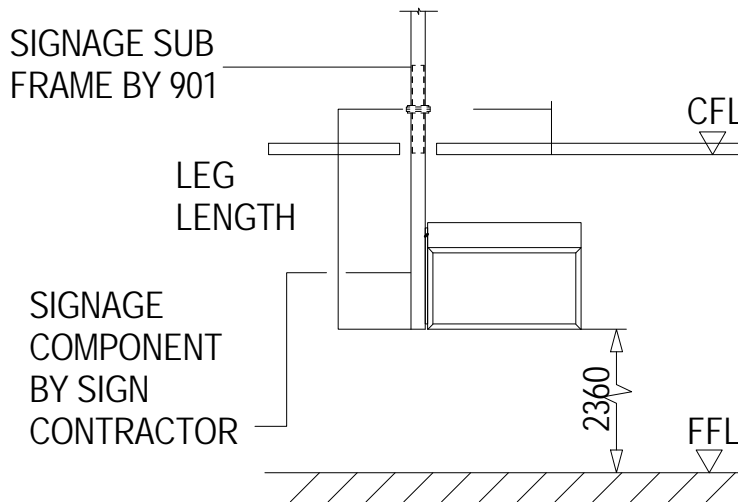
SIGNS

NOTE :

1. 1. FOR FULL DESCRIPTION OF SIGN TYPES REFER TO M&W SPECIFICATION FOR ARCHITECTURAL BUILDER'S WORK & FINISHES + PARTICULAR SPECIFICATION.
2. 2. FOR SIGNAGE LAYOUTS, REFER TO PLANS, INTERNAL ELEVATIONS AND RCP'S.
3. 3. FOR SIGN MESSAGE OF SIDE 'A' (FRONT) & SIDE 'B' (BACK), SEE BELOW ANNOTATION FORMAT FOR REFERENCE & STANDARD.



4. "" REFER TO SIGN GRAPHIC SCHEDULE FOR DETAILS OF ARTWORK, MESSAGE & PICTOGRAMS.
5. FOR TYPICAL LEG LENGTH REFER BELOW FOR REFERENCE & STANDARD:



6. WHERE SIGNS ARE SUSPENDED FROM CEILINGS ABOVE 3M AFFL, EXACT COORDINATION IS REQUIRED BETWEEN THE ABWF CONTRACTOR AND THE SIGNAGE SUPPLIER TO ENSURE THE SIGNAGE FIXING INTERFACE IS CONCEALED ABOVE THE CEILING PLANE.

EXAMPLE :

(UNVxxxx) DIR-12B yyy

UNV : THE STATION NAME ABBREVIATION

XXXX : THE SIGN NUMBER,
THE FIRST x REPRESENTS LOCATION,
1 FOR ENTRANCE AND ADIT ;
2 FOR CONCOURSE AND
3 FOR PLATFORM ;
THE REMAINING xxx IS THE SERIAL
NUMBER OF EACH SIGN
(START FROM 001)

DIR-12B : THE SIGN TYPE

yyy : LAYOUT DRAWING REFERENCE, SHOWN ON WORKING DRAWINGS.

KEY PLAN						DRAWN		TITLE CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM INITIAL PHASE - GENERAL NOTES FOR BUILDER'S WORKS		
						DESIGNED				
						CHECKED				
						APPROVED				
						DATE	NOV 2012			
						DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2009. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.		ORIGINATOR OPERATION DIVISION		
A	TENDER DRAWING		CB	NOV 2012	DF		BIM REF.			
REV	DESCRIPTION		BY	DATE	APP					
								SCALE NTS	FIGURE NO. A00/007	REV. A

STRUCTURAL GENERAL NOTES

A. GENERAL

1.

A)

ALL WORKS SHALL COMPLY WITH THE LATEST EDITION OF:
HONG KONG BUILDING (CONSTRUCTION) REGULATIONS
- B)

ALL STRUCTURAL STEELWORKS SHALL COMPLY WITH THE LATEST EDITION OF:
CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL
- C)

ALL WIND LOAD SHALL COMPLY WITH THE LATEST EDITION OF:
CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG

2.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

3.

ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL
AND E&M DRAWINGS.

4.

A)

ALL LEVELS & DIMENSIONS TO BE VERIFIED ON SITE BEFORE ANY OFF-SITE
FABRICATION/CONSTRUCTION.

B)

FIGURED DIMENSIONS ARE FOR REFERENCE ONLY.

C)

DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

5.

A PROPPING & DEMOLITION PROPOSAL WITH CALCULATION SHALL BE CERTIFIED BY A
QUALIFIED STRUCTURAL ENGINEER APPOINTED BY THE CONTRACTOR AND SHALL BE
SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF
WORKS. EXISTING STRUCTURES SHALL BE RIGIDLY PROPPED PRIOR TO ANY DEMOLITION
AND ALTERNATION WORKS.

6.

NOTES ON DEMOLITION OF EXISTING STRUCTURES:

A)

HAND OPERATED TOOLS OR DIAMOND SAW CUTTING SHALL ONLY BE USED
UNLESS OTHERWISE APPROVED BY THE ENGINEER.

B)

ANY DEVIATION OF EXISTING STRUCTURE FROM THE DRAWINGS SHALL BE
REPORTED TO THE ENGINEER IMMEDIATELY.

7.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF
ALL CONCEALED SERVICES AND UTILITIES BEFORE THE COMMENCEMENT OF
CONSTRUCTION WORKS.

8.

THE CONTRACTOR SHALL MAKE GOOD/REINSTATE ALL DISTURBED SURFACES/FINISHES
TO MATCH EXISTING.

9.

THE PEAK PARTICLE VELOCITIES AT ANY STRUCTURE RESULTING FROM DEMOLISHING
OR ANY OPERATION WHICH CAN INDUCE PROLONGED VIBRATION SHALL NOT EXCEED
15mm/SEC.

10.

FIRE RATED PERIOD (FRP) SHALL BE MAINTAINED AT ALL CONSTRUCTION STAGE,
DETAILS TO BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

11.

THE REGISTERED STRUCTURAL ENGINEER (RSE) RESPONSIBLE FOR ALL ASPECTS
OF THE DESIGN INCLUDING TEMPORARY WORKS.

12.

STRUCTURAL CALCULATION SHALL BE SUBMITTED FOR THE SUPPORTING STEELWORKS
SYSTEM AND ALL TEMPORARY WORKS. THE SUBMITTED CALCULATION AND DRAWINGS
WILL BE ENDORSED BY CONTRACTOR'S REGISTERED STRUCTURAL ENGINEER (RSE).
THE RSE SHALL ALSO REQUIRE TO ENSURE THE STRUCTURAL INTEGRITY OF THIS
INSTALLATION AND NO DAMAGE TO THE EXISTING STRUCTURE.

13.

THE CONTRACTOR SHALL APOINT A PROFESSIONAL QUALIFIED AND TECHNICAL
COMPETENT PERSON TO SUPERVISE THE EXECUTION OF WORKS.

14.

TEST REPORTS ON ANCHOR BOLTS AND WELDING SHOULD BE SUBMITTED FOR RECORD
PURPOSE.

B. STRUCTURAL STEEL

1.

ALL STEEL TO BE GRADE S275 TO COMPLY WITH BS EN 10025 / BS EN 10210.
2.

STEEL MEMBER TO COMPLY WITH BRITISH STEEL CORPORATION SECTIONS TO BS 4
AND BS 4848 UNLESS OTHERWISE STATED.
3.

ALL STEELWORKS EXCEPT STAINLESS STEEL SHALL BE HOT DIPPED GALVANIZED
AFTER FABRICATION IN ACCORDANCE WITH BS EN ISO 1461:1999. THE MINIMUM
GALVANIZED THICKNESS TO BE 87 MICRONS. VENT HOLES SHALL BE PROVIDED IN ALL
HOLLOW SECTIONS FOR HOT DIP GALVANIZING. GALVANIZING DAMAGED ON SITE TO
BE MADE GOOD BY THE APPLICATION OF 2 COATS OF ZINC RICH PAINT. CORROSION
PROTECTION FOR ALL STEEL TO BE PROVIDED IN ACCORDANCE WITH THE
SPECIFICATION.
4.

EDGE DISTANCE OF ALL DRILLED HOLES TO BE IN ACCORDANCE WITH BS 5950.
5.

A)

ALL WELDS TO BE CONTINUOUS AND EITHER FILLET WELD OR BUTT WELD
DEPENDING ON THE TYPE OF JOINT CONNECTION SHOWN ON THE DRAWING
UNLESS OTHERWISE STATED.

B)

SIZE OF FILLET WELD NOT SPECIFIED TO BE 6mm OR EQUAL TO THE THICKNESS
OF THE STEEL ELEMENTS WHICHEVER IS SMALLER.
6.

ALL BOLTS & NUTS TO BE GRADE 8.8 TO BS 3692.
7.

SPRING WASHERS TO BE PROVIDED FOR BOLTS UNDER THE NUT OR BOLT HEAD,
WHICHEVER IS ROTATED DURING TIGHTENING.
8.

ALL CUTTING & DRILLING OF STEEL ELEMENT TO BE MACHINE FLAME-CUT, SAWN OR
PLANED EDGE.
9.

SITE WELDING IS NOT PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
10.

ALL BUTT WELDS TO BE FULL STRENGTH PENETRATION BUTT WELD.
11.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & WELDING PROCEDURES FOR
ENGINEER'S REVIEW NOT LESS THAN SIX WEEKS PRIOR TO COMMENCING ANY
FABRICATION.
12.

ALL STEEL WORKS EXCEPT STAINLESS STEEL TO BE PAINTED.

C. TESTING & CERTIFICATION

1.

UNLESS OTHERWISE STATED, ALL STRUCTURAL MATERIALS TO BE INCORPORATED IN
THE WORKS TO HAVE CHEMICAL COMPOSITION/STRENGTH TEST CERTIFICATION SENT
TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
2.

ALL WELDING SHALL BE SUBJECTED TO WELD TEST, TESTING FREQUENCY SHOULD BE
IN ACCORDANCE TABLE 14.3A OF THE "CODE OF PRACTICE FOR THE STRUCTURAL USE
OF STEEL" OR AS SPECIFIED IN GENERAL MATERIAL AND WORKMANSHIP
SPECIFICATION FOR CIVIL AND BUILDING WORKS, WHICHEVER IS MORE ONEROUS.
NOTWITHSTANDING THE ABOVE REQUIREMENTS, TESTING SHALL BE 10% OF ALL FILLET
WELDS AND 100% OF ALL BUTT WELDS AS AN ABSOLUTE MINIMUM.
3.

ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS. WELDER TEST SHALL
BE WITNESSED BY A QUALIFIED WELDING INSPECTOR AND CERTIFICATES ENDORSED
BY AN INDEPENDENT TESTING BODY. ALL TESTING LABORATORIES TO BE 'HOKLAS'
ACCREDITED.

D. ANCHOR FIXING

1.

ALL ANCHOR BOLTS TO BE STAINLESS STEEL AND SHALL HAVE EUROPEAN TECHNICAL
APPROVAL (ETA). [HILTI OR OTHER APPROVED EQUIVALENT]
2.

TYPE OF ANCHOR BOLTS SHALL BE TORQUE CONTROLLED EXPANSION HEAVY DUTY
ANCHOR OR OTHER EQUIVALENT APPROVAL.
3.

THE CONTRACTOR SHALL PROVIDE THE SITE MEASUREMENT OR SURVEY TO DETECT
AND IDENTIFY THE EXISTING WALL REINFORCEMENT WITH THE CALIBRATED STEEL
REINFORCEMENT SCANNER PRIOR TO HOLE DRILLING. SHOULD A CLASH OR BOLT AND
REINFORCEMENT BE EVIDENT, CONTRACTOR TO ADVISE ENGINEER IMMEDIATELY.
4.

THE CONTRACTOR SHALL CARRY OUT THE SITE SURVEY (WHEN THE BOLTS ARE
EMBEDDED INTO THE CONCRETE WALL) TO ENSURE THE VERTICAL CENTRE LINE OF THE
BRACKET SHALL ALIGN WITH THE CENTRE OF GRAVITY OF THE ANCHOR BOLTS GROUP
(ECCENTRICITY OF LOAD ACTS ON THE BOLTS ARE NOT ALLOWED).
5.

THE INSTALLATION OF ANCHOR BOLTS SHALL STRICTLY COMPLY WITH THE
MANUFACTURER'S RECOMMENDATION.
6.

THE SUPPLIER OF ANCHOR BOLTS SHALL PROVIDE ANCHOR INSTALLATION TRAINING
COURSE TO THE CONTRACTOR'S WORKERS. ALL ANCHOR BOLTS INSTALLATION WORKS
TO BE CARRIED OUT BY LICENSED WORKERS.
7.

IF DAMAGE TO WALL BY MIS-LOCATED DRILLING AND EXISTING DRILLING HOLES:

A)

THE HOLES SHALL BE PATCHED UP WITH INJECTION ADHESIVE GROUTING.

B)

THE APPLICATION METHOD SHALL STRICTLY COMPLY WITH THE MANUFACTURER'S
RECOMMENDATION.
8.

UNLESS OTHERWISE STATED, PULL OUT TEST SHALL BE CARRIED OUT BY A RECOGNIZED
LABORATORY OF EACH TYPE AND SIZE OF ANCHORS INSTALLED AND SHALL BE
SUBMITTED TO THE ENGINEER AS FOLLOWS:

CATEGORY	NO. OF EACH TYPE OF ANCHOR	MIN. NO. OF ANCHOR
SIMPLY SUPPORTED OR CONTINUOUS BEAM	> OR = 50 NOS.	5% OR MIN. 5 NOS.
	< 50 NOS.	10% OR MIN. 2 NOS.
*CANTILEVER (SEE ALSO NOTES WITH *)	> OR = 50 NOS.	5% OR MIN. 5 NOS.
	< 50 NOS.	10% OR MIN. 2 NOS.
	IN ANY CASE	AT LEAST 1 NO. AT EACH BASE PLATE
HANGER	> OR = 50 NOS.	5% OR MIN. 5 NOS.
	< 50 NOS.	10% OR MIN. 2 NOS.

9.

TEST LOAD SHOULD NOT BE LESS THAN 1.5 TIMES THE RECOMMENDED LOAD OF THE ANCHOR
AS SPECIFIED BY THE MANUFACTURER.

10.

A METHOD STATEMENT FOR THE ANCHOR TEST TO BE SUBMITTED FOR THE ENGINEER'S
APPROVAL.

*11

UPON THE MAXIMUM TEST IS REACHED, THE LOAD SHOULD BE MAINTAINED FOR AT LEAST
ONE HOUR WITH RECORDINGS OF LOAD AND DEFORMATION BEING TAKEN AT THE BEGINNING
AND END OF THIS PERIOD TO ESTABLISH WHETHER THE TESTED ANCHOR IS SUBJECT TO
CREEP AND RELAXATION OF LOAD AT HIGHER LOAD CONDITION.

*12

RECOVERY OF THE DEFORMATION AFTER REMOVAL OF ALL LOAD SHOULD BE LEAST 80% OF
THE TOTAL DEFORMATION AT THE MAXIMUM TEST LOAD CONDITION AND THE TESTED ANCHOR
SHOULD NOT SHOW ANY SIGNS OF SEPARATION, PLASTIC DEFORMATION OR DELETERIOUS
EFFECT.

KEY PLAN

REV

A

FIRST ISSUE

REV

DESCRIPTION

CY

NOV 2012

DF

BY

DATE

APP

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED
ON SITE.
© MTR CORPORATION LIMITED 2008. COPYRIGHT IN
RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR
CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF
THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS
IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE
MTR CORPORATION LIMITED.

DRAWN

DESIGNED

CHECKED

APPROVED

DATE

11/28/12

ORIGINATOR

OPERATION DIVISION

BIM REF.

TITLE

CS011.A-12E

E&M SERVICES DIVERSION AND BUILDERS WORKS

FOR PLATFORM WALL BREAKTHROUGH AT ADM

GENERAL NOTES (SHEET 1 OF 2)

SCALE

NTS

FIGURE NO.

C00/001

REV.

A

E. PAINTING FOR GENERAL STEELWORK

1. ALL GALVANIZED MILD STEEL MEMBERS SHALL BE PROTECTED BY APPLICATION OF FULL PROPRIETARY COATING SYSTEM COMPATIBLE WITH ZINC COATING WHICH SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AS FOLLOWS:
- A) TWO COAT OF HIGH SOLIDS EPOXY GRAY PRIMER WITH THE FOLLOWING PROPERTIES:

i) DRY FILM THICKNESS NOT LESS THAN 125?m PER COAT

ii) VOLUME SOLID CONTENTS (ACTIVATED) SHALL BE 67%-69%

iii) VOC < 340 g/L

B) TWO COATS OF POLYURETHANE FINISH WITH THE FOLLOWING PROPERTIES:

i) TWO COMPONENT HIGH BUILD ALIPHATIC ACRYLIC POLYURETHANE

ii) DRY FILM THICKNESS NOT LESS THAN 125?m PER COAT

iii) VOLUME SOLID CONTENTS (ACTIVATED) SHALL BE 58%-62%

iv) VOC < 340 g/L

F. TEMPORARY WORKS

1. TEMPORARY WORKING PLATFORM/SCAFFOLDING SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED FOR THE ENGINEER'S APPROVAL.
2. TEMPORARY POSTS ARRANGED TO CAUSE MINIMUM OBSTRUCTION.

G. SHOP DRAWINGS

1. DETAILS IN THE DRAWINGS SHOW THE DESIGN INTENT ONLY, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATION FOR THE ENGINEER'S APPROVAL PRIOR TO FABRICATION.
2. ALL CALCULATION SUPPORTING THE DESIGNS SHALL BE ENDORSED BY A REGISTERED STRUCTURAL ENGINEER (RSE) EMPLOYED BY THE CONTRACTOR FOR THE ENGINEER'S APPROVAL.

H. EARTHING REQUIREMENT

1. THE CONTRACTOR SHALL PROVIDE EARTHING/BONDING TO ALL METAL PARTS ACCORDING TO LATEST EDITION OF CODE OF PRACTICE FOR THE ELECTRICITY (WIRING) REGULATIONS AND IEE WIRING REGULATION.
2. THE CONTRACTOR SHALL CARRY OUT NECESSARY SITE INSPECTION, VERIFY THE NEAREST TERMINUS, PROPOSE AND SUBMIT TO THE ENGINEER THE PROPOSAL FOR INSTALLATION OF THE NECESSARY EARTHING/BONDING, WHERE APPLICABLE.
3. THE PROPOSAL AND INSTALLATION SHALL ONLY BE EXECUTED BY A REGISTERED ELECTRICAL WORKER.
4. ALL PROPOSAL SHALL BE PREPARED IN A3 OR A4 SIZE DRAWING TOGETHER WITH PHOTOGRAPHS INDICATING THE ROUTE, FIXING AND CONNECTION DETAILS FOR EACH BONDING.

I. MATERIALS

1. THE PHRASE "OR OTHER APPROVED" IS DEEMED TO BE INCLUDED WHENEVER MATERIALS ARE SPECIFIED BY PROPRIETARY NAME. MATERIAL OF DIFFERENT MANUFACTURER BUT OF EQUAL QUALITY MAY BE SUBSTITUTED IF PRIOR APPROVAL HAS BEEN OBTAINED. THE CONTRACT SUM IS DEEMED TO HAVE INCLUDED FOR ALL COSTS OF PROVIDING SUBSTITUTES APPROVED BY THE ENGINEER.

SLAB CUTTING PROCEDURE:

1. ALL TEMPORARY SUPPORTING WORKS FOR EXISTING STRUCTURE SHALL BE COMPLETED BEFORE COMMENCEMENT OF ANY SLAB CUTTING WORKS. ALL SLABES SHALL BE CUT BY A 'DRY' METHOD. WATER CUTTING OR INCANDESCENT PROCEDURE WILL NOT BE ACCEPTABLE.
2. THE CONTRACTOR SHALL ERECT PROPERLY AND GOOD QUALITY HOARDINGS AROUND EARCH LOCATION. EACH HOARDIING SHALL CONTAIN ALL DUST AND DEBRIS FROM THE CUTTING PROCESS. THE POSITION AND APPEARANCE OF THE HOARDING SHALL BE AGREED WITH THE EINGINEER BEFORE HAND.
3. ALL SLAB CUTTING AND REMOVAL SHALL BE NEAT TIDY AND SHALL BE COMMENCED BY SAW-CUTTING TO EXACT PROFILE OF THE HOLE. THE CONTRACTOR SHALL THEN PATTERN-DRILL OR OTHER AGREED PROCEDURE.
4. ALL DEBRIS SHALL BE BROKEN DOWN FOR EASY TRANSPORTATION AND REMOVED FROM THE BUILDING AT TIMES AND ON ROUTES AGREED WITH THE ENGINEER.
5. ALL REINFORCEMENT SHALL BE SAWCUT FLUSH WITH THE FINISHED FACES. UNDER NO CIRCUMSTANCES, LAME-CUTTING IS ALLOWED.
6. THE FINISHED CONCRETE EDGES SHALL BE NEAT AND TIDY AND SHALL NOT EXCEED THE REQUIRED DIMENSIONS.
7. ALL SAWCUTTING SHALL BE CARRIED OUT BY APPROVED 'LIGHT WEIGHT' TOOLS. CONSTRUCTION LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD.

EXISTING CONCRETE STRUCTURES:

1. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF ALL EXISTING STRUCTURES AND REPORT THE RESULTS TO THE ENGINEER WITH ONE WEEK OF COMMENCING WORK.
2. COVER-METER SURVEYS SHALL BE TAKEN AT THE LOCATION OF A&A WORKS AFTER THE REMOVAL OF ANY FINISHES AS REQUIRED.

FORMATION OF OPENING AT EXISTING SLAB

1. REMOVE ALL DEBRIS AND LOOSE MATERIALS AROUND THE PROPOSED OPENING AREA.
2. MARK THE PORTION TO BE CUT AND REMOVED IN THE SLAB. CHECK ADEQUATE CLERANCE IS AVAILABLE FROM THE EXISTING WALLS AND UPSTAND BEAMS.
3. CUT THE SLAB TO ITS DIMENSIONS INDICATED IN DRAWINGS. EXISTING REINFORCEMENT BARS SHALL BE CUT WITHIN THE PROPOSED OPENING AS INDICATED. CUTTING PROCEDURE SHALL BE AGREED WITH THE ENGINEER. REINFORCEMENT BARS OUTSIDE THE PROPOSED OPENING SHALL NOT BE CUT.
4. FIX FORMWORK AND FALSEWORK ALL AROUND THE PORPOSED OPENING WHICH ARE TO BE CONCRETE.
5. CONCRETE AND MAKE GOOD THE EDGES WITH CLEAR OPENING SIZE.
6. ALLOW ADEQUATE CURING AND REMOVE THE FORMWORK AND FALSEWORK AS AGREED WITH THE ENGINEER.

FORMATION OF OPENING AT EXISTING WALL

1. REMOVED OR RE-DIVERT THE EXISTING SERVICES IN THE AREA AS NECESSARY, BY OTHERS. REFER TO E&M DRAWINGS FOR DETAILS.
2. MARK THE PORTION OF WALL TO BE CUT ON SITE.
3. DEMOLITION SHALL BE CARRIED OUT BY HAND HELD MANCHINES AND THE PROCEDURE SHALL BE AGREED WITH THE ENGINEER.
4. OVER BREAK THE WALL OPENING TO EXTENT AS SHOWN ON DRAWING.
5. MAKE GOOD THE SURFACE AS SHOWN ON DRAWING.

HOLE CORING ON STRUCTURE

1. THE CONTRACTOR SHALL CHECK ON SITE THE EXISTING FIXTURE, CABLES/WIRES BEFORE CARRYING OUT ANY HOLE CORING ACTIVITIES TO STRUCTURES INCLUDING SUCH AS WALL AND FLOOR SLAB TO AVOID DAMAGES.
2. ALL CABLES/WIRES SHALL BE TREATED AS 'LIVE' AT ALL TIME.
3. ALL CABLES/WIRES AND/OR FIXTURE SHALL BE PROTECTED AGAINST DAMAGE DURING CORING.
4. ANY CABLES/WIRES CLOSER THAN 300mm IN DISTANCE FROM EDGE OF HOLE BEING CORED SHALL BE COVERED BY MEANS OF A SPLIT TYPE METAL SLEEVE OR SIMILAR OF LENGTH 500mm (MINIMUM) AND OF 3mm IN THICKNESS (MINIMUM) AS ADDITIONAL PROTECTIVE MEASURE.
5. 20mm DIAMETER PILOT HOLE CORING IS REQUIRED BEFORE CORING OF PERMANENT HOLE TO STRUCTURE IF EXISTING CABLE/WIRE IS CLOSER THAN 150mm IN DISTANCE FROM EDGE OF THE PERMANENT HOLE TO BE CORED.
6. DURING WHOLE PROCESS, EACH SIDE OF WALL OR FLOOR SHOULD BE SAFEGUARDED BY COMPETENT PERSON TO PROTECT EXISTING FIXTURE, CABLE/WIRE AGAINST ANY POSSIBLE DAMAGE.

WORKING PROCEDURES AND SAFETY:

1. ALL A&A WORKS SHALL FOLLOW THE GENERAL REQUIREMENTS OF CONSTRUCTION SITE (SAFETY) REGULATIONS.
2. ALL STEELWORKS SHALL BE ERECTED. SECURED AND ON CONTACT WITH THE EXISITNG CONCRETE STRUCTURE BEFORE ANY SLAB CONCRETE IS CUT OR REMOVED.
3. ALL PACKING, BY WEDGES, OF THE SPACE BETWEEN THE STEELWORK AND THE CONCRETE SHALL BE HAMMER-DRIVEN TO THE SATISFACTION OF THE ENGINEER.
4. FLAME-CUTTING OF ANY COMPONENT SHALL NOT BE ALLOWED IN ANY PART OF THE BUILDING SITE.
5. DUST AND DEBRIS SHALL BE CONTROLLED AT ALL TIMES AND SHALL NOT BE ALLOWED TO AFFECT ANY PUBLIC SPACES.
6. THE CONTRACTOR SHALL BE COGNIZANT OF SAFETY PROCEDURES AT ALL TIMES AND HE SHALL SUBMIT A SAFTY PLAN FOR THE APPROVAL OF THE ENGINEER.
7. WET CUTTING PROCEDURES SHALL NOT BE USED IN THE SLAB REMOVAL WORKS.
8. CONTRACTOR TO LIASE WITH MTRC AND ENSURE THAT NO WORKS ARE CARRIED OUT FOR FUTURE DEVELOPMENT OF OR OTHER REASONS ABOVE THE 'A&A WORKS AREA', WHEN THE A&A WORKS ARE IN PROGRESS.

WALL CUTTING PROCEDURE

1. DEMOLITION SHALL BE CARRIED OUT BY HAND OPERATED PNEUMATIC JACK HAMMER WEGHR WEIGHT OF THE JACK HAMMER SHALL BE NOT MORE THAN 50kg.

ABBERVATION

EX.	EXISTING
S/S	STAINLESS STEEL
THK	THICK
GMS	GALVANISED MILD STEEL
MS	MILD STEEL
FW	FILLET WELD
DIA	DIAMETER
W/	WITH
MIN	MINIMUM
RSE	REGISTERED STRUCTURAL ENGINEER

KEY PLAN						DRAWN		ORIGINATOR		TITLE CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM GENERAL NOTES (SHEET 2 OF 2)	
						DESIGNED					
						CHECKED					
						APPROVED					
						DATE	DEC 2012	OPERATION DIVISION			
						DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.					
	A	FIRST ISSUE	CY	DEC 2012	DF			BIM REF.	SCALE NTS	FIGURE NO. C00/002	REV. A
	REV	DESCRIPTION	BY	DATE	APP						

NOTES:

MATERIAL AND PIPE WORK:

1. ALL CAST IRON PIPES TO BE HEAVY GRADE (ECCI) FOR THIS PROJECT.
2. EPOXY COATED CAST IRON (ECCI) PIPE AND ASSOCIATED FITTINGS
- a. UNLESS OTHERWISE STATED, ALL DRAINAGE PIPE OF DIAMETER PIPE OF DIAMETER GREATER THAN 50mm IN DIAMETER SHALL BE PROVIDED WITH EPOXY COATED STEEL (ECCI) PIPES AND ASSOCIATED FITTINGS TO EN 877, AND SHALL BE SUBMITTED FROM MANUFACTURER CERTIFIED TO ISO 9001:2000 AND UNDER THE SURVEILLANCE BY AN ACCREDITED ORGANIZATION ACCREDITED TO EN45011 AS LISTED IN THE ANNEXES D & E OF EN 877.
- b. ALL COUPLINGS SHALL BE OF ONE-PIPECE DESIGN, CONSTRUCTED OF GRADE 316 STAINLESS STEEL WITH A EPOM COLLAR INSERT FOR SEALING.
- c. THE WHOLE PIPE SYSTEM INCLUDING ASSOCIATED FITTINGS SHALL BE FROM ONE SINGLE PROPRIETARY PRODUCT WITH A MINIMUM PRODUCT GUARANTEE FOR 10 YEARS. SUCH GUARANTEE SHALL BE ISSUED BY THE MANUFACTURER.
1. HEAVY GRADE OF ECCI PIPES AND ASSOCIATED FITTINGS SHALL BE:
- a. PIPES: INTERNALLY COATED WITH TWO-PART SOLVENT FREE EPOXY WITH A MINMUM AVERAGE THICKNESS OF 250 MICRON. EXTERNALLY COATED WITH INITIAL FLAME APPLIED ZINC SPRAY WITH COVERAGE OF 130 G/M2 AND FINISHED WITH A PRIMER WITH A MINIMUM AVERAGE THICKNESS OF 40 MICRON.
- b. FITTINGS: INTERNALLY AND EXTERNALLY COATED IN FLUIDIZED BED WITH A POLYMERIZED EPOXY POWER WITH A MINMUM AVERAGE THICKNESS OF 300 MICRON.
- c. EPOXY COATING SHALL HAS A RESISTANCE TO EXPOSURE OF SALT SPRAY TEST TO ISO 7253 FOR A MINIMUM OF 1000 HOURS. A MINIMUM AVERAGE THICKNESS OF 300 MICRON.

LEGEND & ABBREVIATIONS:

- NEW PIPES
- EX. DRAIN PIPE TO BE REPLACED
- CI

CAST IRON
- L/L

LOW LEVEL
- H/L

HIGH LEVEL
- EX.

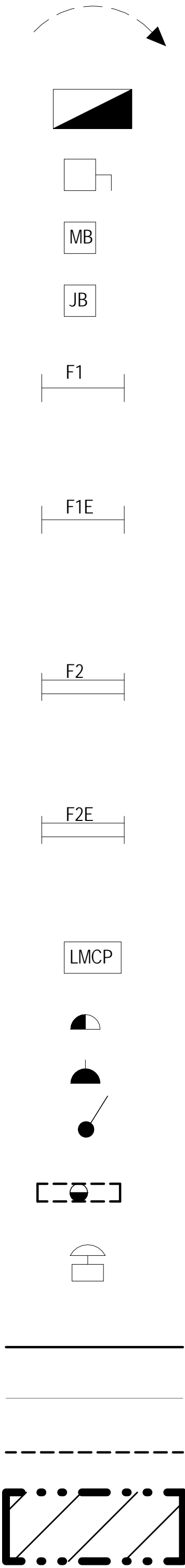
EXISTING

KEY PLAN						DRAWN		TITLE CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM NOTES, LEGEND AND ABBREVIATION		
						DESIGNED			ORIGINATOR OPERATION DIVISION	
						CHECKED				BIM REF.
						APPROVED				
						DATE	DEC 2012			
	A	FIRST ISSUE	CB	DEC 2012	DF	DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.		SCALE NTS	FIGURE NO. D00/001	REV. A
	REV	DESCRIPTION	BY	DATE	APP					

ABBREVIATIONS:

1/C	SINGLE - CORE
4/C	FOUR - CORE
4P	FOUR POLES
ADV. PANEL	ADVERTISING PANEL
AHU	AIR HANDLING UNIT
AFFL	ABOVE FINISHED FLOOR LEVEL
ARCH	ARCHITECTURAL
BLF	BALLAST LUMEN FACTOR
BOFH/BOH	BACK OF HOUSE
CFL	COMPACT FLUORESCENT LAMP
CPC	CIRCUIT PROTECTIVE CONDUCTOR (1/C LSOH COPPER CABLE TO BS7211)
Cu	COPPER
CUC	CUSTOMER SERVICE CENTRE
C/W	COMPLETE WITH
C&C	COMMUNICATION & CONTROL
DB	DISTRIBUTION BOARD
DP	DOUBLE POLES
EPB	EMERGENCY STOP BUTTON
ES	ELECTRICAL SERVICE
ESR	ELECTRICAL SUPPLY ROOM
EX	EXISTING
F/A	FROM ABOVE
F/B	FROM BELOW
FCU	FAN COIL UNIT
FR	FIRE-RESISTANCE TO BS 6387 CAT. CWZ
F/S	FUSE SWITCH
FS	FIRE SHUTTER
FSU	FUSED SPUR UNIT
F&B	FOOD AND BEVERAGE
H/L	HIGH LEVEL
HDG	HOT DIPPED GALVANIZED
HRC	HIGH-RUPTURING CAPACITY
L/L	LOW LEVEL
LSOH/LSHF	COPPER CONDUCTOR INSULATED WITH CROSS LINKED LOW SMOKE AND ZERO HALOGEN MATERIAL TO BS 7211
LTG.	LIGHTING
MCB	MINIATURE CIRCUIT BREAKER
MCCB	MOULDED CASE CIRCUIT BREAKER
MIN.	MINIMUM
M/L	MIDDLE LEVEL
NTH	NON-TRAFFIC HOUR
NiCd	NICKEL-CADMIUM
PEP	PLATFORM EMERGENCY PLUNGER (FOR TRAIN)
RCBO	RESIDUAL CURRENT BREAKER WITH COMBINED OVERLOAD PROTECTION
RCD	RESIDUAL CURRENT DEVICE
S/F	SWITCH FUSE
SP	SINGLE POLE
SPN	SINGLE PLE AND NEUTRAL
SS	SECURITY SHUTTER
SW	SWITCH
SWA	STEEL WIRE ARMOUR
T/A	TO ABOVE
T/B	TO BELOW
TP	TRIPLE POLES
TPN	TRIPLE POLES AND NEUTRAL
VE	VITREOUS ENAMEL
XLPE/SWA/LSOH	COPPER CONDUCTOR XLPE INSULATED, STEEL WIRE ARMoured, LOW SMOKE AND ZERO HALOGEN MATERIAL SHEATHED, TO BS 6724

LEGENDS:



DESCRIPTION:

TO BE RELOCATED EQUIPMENT

MCCB/MCB PANEL BOARD

ISOLATING SWITCH

INTERFACE MARSHALLING BOX

CABLE JUNCTION BOX

1 x 36W, 240V, 50Hz, 1200mm, 4000K, T8 FLUORESCENT LUMINAIRE COMPLYING WITH BSEN60598, BSEN60598-2-22, AND 850°C HOT WIRE TEST FOR EXTERNAL PARTS, C/W ELECTRONIC BALLAST, LAMP SOURCE END OF LIFE (EOL) CUT-OFF PROTECTION TO EN 61347-2-3, LAMP WITH WHITE FINISHED STEEL BODY, SYMMETRIC REFLECTOR & ALL ACCESSORIES.

1 x 36W, 240V, 50Hz, 1200mm, 4000K, T8 FLUORESCENT LUMINAIRE COMPLYING WITH BSEN60598, BSEN60598-2-22, AND 850°C HOT WIRE TEST FOR EXTERNAL PARTS, C/W ELECTRONIC BALLAST, LAMP SOURCE END OF LIFE(EOL) CUT-OFF PROTECTION TO EN 61347-2-3, FIRE RESISTANCE CABLE, EMERGENCY POWER PACK WITH 20% OR ABOVE BLF, 3hrs, Ni-Cd BATTERY HOUSED IN PURPOSE MADE METALLIC BLACK COLOUR ENCLOSURE WHICH IS MOUNTED ADJACENT TO THE LUMINAIRE, LAMP WITH WHITE FINISHED STEEL BODY, SYMMETRIC REFLECTOR & ALL ACCESSORIES.

2 x 36W, 240V, 50Hz, 1200mm, 4000K, T8 FLUORESCENT LUMINAIRE COMPLYING WITH BSEN60598, BSEN60598-2-22, AND 850°C HOT WIRE TEST FOR EXTERNAL PARTS, C/W ELECTRONIC BALLAST, LAMP SOURCE END OF LIFE (EOL) CUT-OFF PROTECTION TO EN 61347-2-3, LAMP WITH WHITE FINISHED STEEL BODY, SYMMETRIC REFLECTOR & ALL ACCESSORIES.

2 x 36W, 240V, 50Hz, 1200mm, 4000K, T8 FLUORESCENT LUMINAIRE COMPLYING WITH BSEN60598, BSEN60598-2-22, AND 850°C HOT WIRE TEST FOR EXTERNAL PARTS, C/W ELECTRONIC BALLAST, LAMP SOURCE END OF LIFE(EOL) CUT-OFF PROTECTION TO EN 61347-2-3, FIRE RESISTANCE CABLE, EMERGENCY POWER PACK WITH 20% OR ABOVE BLF, 3hrs, Ni-Cd BATTERY HOUSED IN PURPOSE MADE METALLIC BLACK COLOUR ENCLOSURE WHICH IS MOUNTED ADJACENT TO THE LUMINAIRE, LAMP WITH WHITE FINISHED STEEL BODY, SYMMETRIC REFLECTOR & ALL ACCESSORIES.

LOCAL MOTOR CONTROL PANEL

13A SWITCHED FSU C/W INDICATOR AND MATT-CHROME FINISH FRONT PLATE

13A SWITCHED POWER SOCKET OUTLET C/W INDICATOR AND MATT-CHROME FINISH FRONT PLATE

10A LIGHTING SWITCH, MATT-CHROME FINISH FRONT PLATE

EXISTING 620(W) x 140(H) BULKHEAD LIGHTING WITH 3 HOURS BATTERY BACKUP.

PLATFORM EMERGENCY PLUNGER (PEP)

NEW ELECTRICAL SERVICE

EXISTING EQUIPMENT TO BE RETAINED

EXISTING ELECTRICAL SERVICE TO BE DIVERTED OR DEMOLISHED

AFFECTED AREA

SYMBOL:

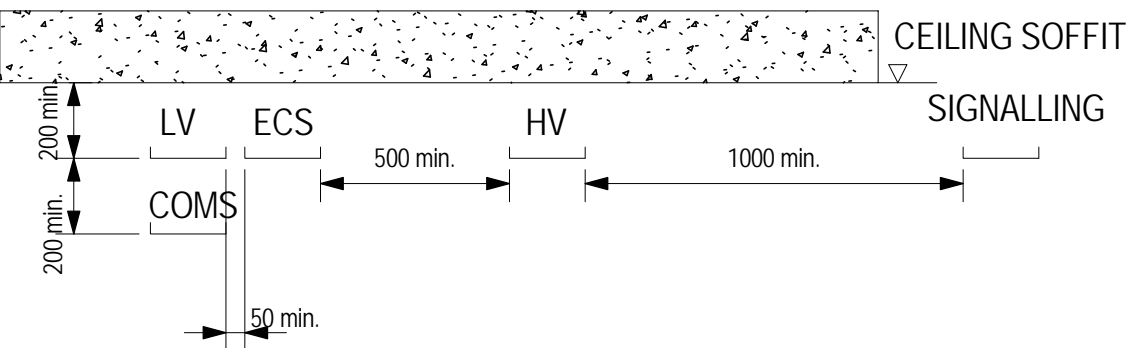
TK-250 No. XX		CABLE TRUNKING
CT-300 No. XX		CABLE TRAY

EXAMPLE OF CABLE CONTAINMENT DESCRIPTION:

I	II	III	IV
		V	VI

- I. DENOTES REFENCE No. OF CABLE CONTAINMENT
- II. DENOTES TYPE OF SERVICES
- III. DENOTES TYPE OF CABLE CONTAINMENT
- IV. DENOTES ABOVE FINISHED FLOOR LEVEL
- V. DENOTES SIZE OF CABLE CONTAINMENT

CABLE TRAY GENERAL SEPARATION REQUIPMENT:



KEY PLAN

A

FIRST ISSUE

CB

DEC 2012

DF

REV

DESCRIPTION

BY

DATE

APP

DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. MTR CORPORATION LIMITED 2008 COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

OPERATION DIVISION

ORIGINATOR

BIM REF.

TITLE

CS011.A-12E
E&M SERVICES DIVERSION AND BUILDERS WORKS
FOR PLATFORM WALL BREAKTHROUGH AT ADM
ES LEGEND AND ABBREVIATION

SCALE

NTS

FIGURE NO.

E00/001

REV.

A

1. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL DESIGN SUPPLY & INSTALL ALL THE WHOLE ELECTRICAL INSTALLATION SHOWN ON THE DRAWINGS EXCEPT FOR THOSE DESIGNATED AS 'BY OTHERS'.
2. ALL DIMENSIONS SHOWN IN mm, UNLESS OTHERWISE SPECIFIED.
3. EXISTING INSTALLATION IS SHOWN IN DOTTED LINES OR IN DIM COLOR FOR EASE OF REFERENCE, UNLESS OTHERWISE SPECIFIED. THE EXACT ROUTING, SIZE AND SETTING-DUT OF THE EXISTING OR AS-BUILT E&M SERVICES SHALL BE VERIFIED ON SITE BY THE CONTRACTOR.
4. FIXING TO CONCRETE LINING SHALL BE BY MEANS OF STAINLESS STEEL ANCHORS, BOLTS AND NUTS. CONTACT SURFACE BETWEEN STAINLESS STEEL AND OTHER METAL SHALL BE INSULATED TO PREVENT BI-METALLIC CORROSION.
5. ALL CABLE TRAY BRACKETS, CABLE BRACKETS, SUPPORTS AND SOCKET MOUNTING PLATES SHALL BE HOT DIPPED GALVANIZED TO BS729 AFTER WELDING AND FABRICATION.
6. CABLE ROUTES, CIRCUIT REF. NO. AND SWITCHGEAR LOCATIONS SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL SUBMIT DETAILED POWER & CONTROL CABLE ROUTE, CIRCUIT REF. NO. AND SWITCHGEAR ARRANGEMENT TO THE ENGINEER FOR APPROVAL AFTER HIS OWN SITE INSPECTION & COORDINATION AND PRIOR TO SITE INSTALLATION.
7. IF EXISTING CABLE CONTAINMENTS HAVE BEEN FULLY OCCUPIED BY EXISTING CABLES. THE CONTRACTOR SHALL PROVIDE NEW CABLE BRACKETS, CABLE CONTAINMENTS FOR FIXING NEW CABLE. SUCH NEW CABLE CONTAINMENTS IN ADDITION TO THE EXISTING ONES SHALL HAVE BEEN INCLUDED IN THE CONTRACT SUM. TO UTILIZE EXISTING CABLE CONTAINMENTS FOR NEW CABLES, THE CONTRACTOR SHALL PROVIDE JUSTIFICATION, CALCULATIONS, PHOTOS, ETC. TO DEMONSTRATE THAT THE EXISTING CABLE CONTAINMENTS HAVE ADEQUATE SPARE CAPACITY TO ACCOMMODATE THE NEW CABLES.
8. ALL SLAB AND WALL OPENINGS FOR INSTALLATION OF E&M EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR.
9. ALL SLAB OPENINGS AND WALL OPENINGS FOR CABLE RUNNING SHALL BE KEPT AT 300mm MINIMUM APART FROM THE EXISTING CABLE SLOT OR ANY POSITION OF CABLE SEALANT.
10. DRILLING THROUGH BEAM OR RIB OF SLAB IS NOT ALLOWED UNLESS WITH THE ENGINEER'S APPROVAL.
11. ALL CONDUITS SHALL BE OF CONCEALED TYPE WHEN MOUNTING BELOW FALSE CEILING AT PUBLIC AREA AND BACK OF HOUSE AREA.
12. FIRE RESISTANT Cu CABLE TO BS 6387 CAT. CWZ SHALL BE USED FOR THE INTERNAL CABLE AND THE CABLE BETWEEN EMERGENCY POWER PACK AND EMERGENCY LIGHTING FITTINGS.
13. CIRCUITS OF NORMAL LIGHTING POWER SUPPLY AND THOSE OF THE EMERGENCY LIGHTING POWER SUPPLY SHALL BE LAID INSIDE INDIVIDUAL CABLE CONTAINMENT SEPARATED FROM ONE AND THE OTHER.
14. ALL CIRCUITS SHALL BE PROVIDED WITH INDEPENDENT CIRCUIT PROTECTIVE CONDUCTORS.
15. EXACT LOCATION OF POWER SUPPLIES AND FINAL CIRCUITS SHALL BE CHECKED BY THE CONTRACTOR.
16. CABLE DIVERSION SHALL INCLUDE ALL WORKS FOR RELOCATING, REARRANGING & STRAIGHTENING OF THE RELEVANT SECTION OF THE EXISTING CABLES BY GAINING CABLE SLACK, AND PROVISION OF NEW CABLE CONTAINMENT AND ASSOCIATED ACCESSORIES.
17. FOR EXISTING CABLES REQUIRED FOR DIVERSION BUT WITHOUT SUFFICIENT CABLE SLACK, NEW CABLES SHALL BE PROVIDED OR EXISTING CABLES SHALL BE EXTENDED BY ADDING SECTION OF NEW CABLES WITH ADEQUATE CABLE JOINTS UNLESS OTHERWISE SPECIFIED. THE CHOICE DEPENDS ON THE OPERATIONAL REQUIREMENT AND SITE CONDITION SUBJECT TO APPROVAL BY THE ENGINEER. THE ABOVE WORKS AND NEW CABLES USED SHALL COMPLY WITH MTRC'S STANDARD AND SHALL BE SAME SIZE AS THE EXISTING ONES UNLESS OTHERWISE SPECIFIED.
18. EACH SWITCH-FUSE, FUSE SWITCH, ISOLATING SWITCH, BUSBAR CHAMBER, MCB BOARD, ENERGY METER, FCU, CABLE TERMINATION BOX AND CABLE SHALL BE LABELLED ON FRONT COVER TO INDICATE:
 - a) THE CIRCUIT NAME/NUMBER
 - b) THE RATING OF FUSE/CIRCUIT BREAKER
 - c) THE PURPOSE OF THE CIRCUIT IT SERVES.
(e.g. LIGHTING AT ENTRANCE B etc.)
19. ALL RCB OR AN INDIVIDUAL DP MCB WITH BUILT-IN RCD FOR SOCKET OUTLET SHALL BE 30mA SENSITIVITY.

20. THIS SET OF DRAWINGS SHOWS DESIGN INTENT ONLY, THE CONTRACTOR SHALL VERIFY ON SITE THE EXACT NUMBER AND LOCATION OF DEVICES/EQUIPMENT AND COORDINATE THE WORKS WITH THE OTHER CONTRACTORS, (IF ANY), MTR SITE/MAINTENANCE STAFF. THE CONTRACTOR SHALL REPORT ANY OUTSTANDING OR DEFECTIVE WORKS.
21. FOR RELOCATION OF EXISTING EQUIPMENT, THE CONTRACTOR SHALL PROVIDE FULL LENGTH OF NEW CABLE WHEN SPECIFIED IN TENDER DRAWING/SPECIFICATION REQUIREMENT OR EXTEND THE EXISTING CABLES LENGTH IN THE EVENT THAT THE EXISTING CABLE IS NOT LONG ENOUGH. METHOD OF EXTENSION SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL.
22. EACH MCB DISTRIBUTED BOARD WILL BE OPERATED BY A METALCLAD ISOLATING SWITCH OF RATING AS SPECIFIED IN THE MCB BOARD SCHEDULE / DRAWING.
23. UNLESS OTHERWISE SPECIFIED, ALL INTERNAL CABLES FOR LIGHTING FITTINGS SHALL BE OPERATED UP TO 125°C AND OF LOW SMOKE AND ZERO HALOGEN TYPE.

UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZE OF SMALL POWER AND CONTROL/SIGNAL CABLES SHALL BE 2.5mm² AND 1.5mm² COPPER CABLE ACCORDINGLY.

UNLESS OTHERWISE SPECIFIED, ALL CABLES OTHER THAN FIRE RESISTANT CABLE SHALL BE FIRE RETARDANT.

CIRCUITS FOR LIGHTING AND SMALL POWER FOR PLANT ROOM SHALL BE SEPARATED FROM THOSE FOR PUBLIC AREAS AND STAFF AREAS.
24. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTION REQUIRED WHEN THE WORK IS TO BE CARRIED OUT IN A CONFINED SPACE AND/OR HIGH LEVEL.
25. THE CONTRACTOR SHALL MAKE GOOD ALL WALL/SLAB OPENINGS BY BACKFILLING WITH FIRE-RESISTANT NON-ASBESTOS CONTAINED MATERIALS WITH FIRE RATING NOT LESS THAN THE PENETRATED SLAB/WALL AND, WITH NON-ASBESTOS CONTAINED MARKER ON BOTH SIDES FOR IDENTIFICATION. WATER PROOFING MATERIAL SHALL BE APPLIED ON SLAB OPENINGS FOR BACKFILLING.
26. THE CONTRACTOR SHALL VERIFY ABSENCE OF ANY CONCEALED SERVICE PIPE OR CONCEALED CONDUIT RUNNING ACROSS THE PROPOSED LOCATIONS OF SLAB/WALL OPENING BEFORE ANY DRILLING OR DESTRUCTIVE WORK IS MADE.
27. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THEIR PROPOSED SLAB AND WALL OPENINGS, ETC FOR ENGINEER'S APPROVAL BEFORE CARRYING OUT CORING WORK.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISMANTLING THE EXISTING CABLING, CABLE CONTAINMENT, POWER DISTRIBUTION EQUIPMENT AND CONTROL COMPONENTS WHICH ARE REDUNDANT FROM THE WORK, INCLUDING EXISTING LIGHTING SYSTEM AND MCBs.
29. THE CONTRACTOR SHALL SUBMIT ACTUAL MOUNTING DETAILS INCLUDING DIMENSIONAL ELEVATION AND VIEW OF NEW OR RELOCATED EQUIPMENT FOR ENGINEER'S APPROVAL BEFORE ACTUAL INSTALLATION.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISMANTLING AND REINSTATING ALL EXISTING FALSE CEILING, VE PANELS, COVERS, ETC. NECESSARY FOR THE EXECUTION OF THE WORKS.
31. ALL LIGHTING SHOWN ON THE TENDER DRAWINGS ARE INDICATIVE ONLY, THE CONTRACTOR SHALL DESIGN, SUPPLY & INSTALL THE NORMAL AND EMERGENCY LIGHTING WITHIN THE CONSTRUCTION AFFECTED AREA.
32. UNLESS OTHERWISE SPECIFIED, ALL EXISTING LV EQUIPMENT, CABLES & CABLE CONTAINMENT NEED TO BE RELOCATED OR DIVERTED SHALL BE REPLACED BY BRAND NEW MATERIAL.
33. THE CONTRACTOR SHALL FOLLOW THE FOLLOWING VOLTAGE DROP REQUIREMENT FOR CARRYING OUT THE CABLE SIZING OF NEW CIRCUITS.

CABLE VOLTAGE DROP FROM L.V. SWITCHBOARD TO DISTRIBUTION BOARD	MAXIMUM ALLOWED CABLE VOLTAGE DROP FROM DISTRIBUTION BOARD TO EQUIPMENT
2%	2%

34. ALL INSTALLATION SHALL FOLLOW THE NEW CABLE COLOUR CODE SYSTEM AS SPECIFIED BY THE EMSD OF HKSAR. THE CORE IDENTIFICATION FOR LV POWER CABLES SHALL FOLLOW THE NEW CABLE COLOUR CODE AS FOLLOWS:

SYSTEM	PHASE CONDUCTORS			NEUTRAL	EARTH
	L1	L2	L3		
1-PHASE	BROWN	-	-	BLUE	GREEN/YELLOW
3-PHASE	BROWN	BLACK	GREY	BLUE	GREEN/YELLOW










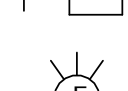

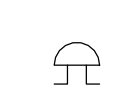
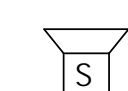
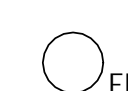
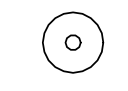
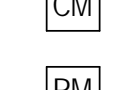

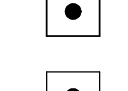
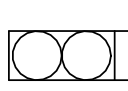


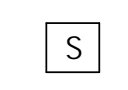

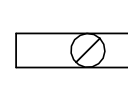
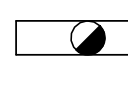
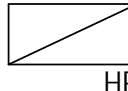
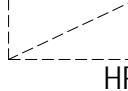



A DURABLE AND LEGIBLE YELLOW WARNING NOTICE IN BOTH ENGLISH AND CHINESE SHALL BE PROVIDED AND DISPLAYED AT AN APPROPRIATE LOCATION IF NEW AND OLD COLOUR CABLES ARE INSTALLED TOGETHER. ADDITIONAL MARKING, LABEL, SLEEVE ETC. SHALL BE PROVIDED FOR IDENTIFICATION AT THE INTERFACE BETWEEN NEW AND OLD COLOUR CABLES SO AS TO AVOID ANY POSSIBILITY OF MISTAKE.

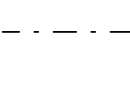
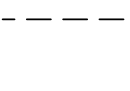
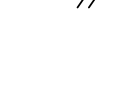

ALL RELEVANT REQUIREMENTS AS SPECIFIED IN THE LATEST CODE OF PRACTICE FOR THE ELECTRICITY (WIRING) REGULATIONS (CoP) SHALL BE COMPLIED WITH.

35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATION WORKS OF THE RELATED ELECTRICAL SERVICES, WHICH MAY NOT BE SHOWN ON DRAWINGS AND WILL AFFECT THE CONSTRUCTION OF CIVIL WORKS.
36. THE CONTRACTOR SHALL BE RESPONSIBLE TO VALIDATE ON SITE FOR EXISTING POWER & CONTROL CABLES INCLUDING THEIR LOADING, FUNCTION, TYPE, SIZE, NUMBER OF CORES, ROUTING AND BOTH END DESTINATIONS ETC. TO WORK OUT HIS NEW CABLE DIVERSION ROUTING & CHANGEOVER PLAN FOR THE ENGINEER'S APPROVAL.
37. CABLE CONTAINMENTS FOR SYSTEM WIDE EQUIPMENT BY THE CONTRACTOR SHALL BE 300mm LENGTH EXTENDED AND TERMINATED WITHIN SYSTEM WIDE PLANT ROOM.
38. EXISTING SERVICES IN CASE CRASHED WITH THE NEW CABLE CONTAINMENT UNAVOIDABLY, THE CONTRACTOR SHALL BE RESPONSIBLE TO DIVERT/MODIFY THEM TO COMPLETE THE INSTALLATION WORKS.
39. CABLE CONTAINMENT PASSING THROUGH THE PROTECTED AREA (e.g. STAIRCASE) SHALL BE PROTECTED BY 2 HOURS FIRE RATED ENCLOSURE.
40. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER BS CONTRACTOR FOR EXACT INTERFACE LOCATION.
41. THE CONTRACTOR SHALL CARRY OUT RE-WIRING WORKS FOR EXISTING SERVICES/EQUIPMENT THAT BE CONNECTED TO THE DECOMMISSIONED OR RELOCATED SERVICES/EQUIPMENT FOR CONTINUOUS OPERATION.

KEY PLAN						DRAWN		TITLE CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM ES GENERAL NOTES					
						DESIGNED							
						CHECKED							
						APPROVED							
						DATE	DEC 2012						
						DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.		ORIGINATOR	OPERATION DIVISION	BIM REF.			
	A	FIRST ISSUE	CB	DEC 2012	DF								
	REV	DESCRIPTION	BY	DATE	APP								
						SCALE	NTS	FIGURE NO.			E00/002	REV.	A

LEGEND:

- NEW SMOKE DETECTOR
- EXISTING SMOKE DETECTOR TO BE RELOCATED
- EXISTING SMOKE DETECTOR
- IONIZATION SMOKE DETECTOR
- NEW SMOKE DETECTOR UNDER FLOOR VOID
- SMOKE PROBE UNIT
- EXISTING BTM CONTROL PANEL
- CLEAN AGENT CONTROL PANEL &
CLEAB AGENT INTERFACE PANEL
- LOCAL INDICATION AND LOCK-OFF UNIT
- MECHANICAL MANUAL RELEASE UNIT
- FLASHING UNIT
- ALARM BELL
- EXISTING ALARM BELL
- SIREN/BANSHEE
- 2kg ABC TYPE DRY POWDER PORTABLE FIRE EXTINGUISHER
- FM200 GAS CYLINDER
- CONTACT MONITORING MODULE
- CONTROL RELAY MODULE
- SOUNDER MODULE
- BREAK GLASS UNIT
- EXISTING BREAK GLASS UNIT
- GAS CYLINDER
- GAS NOZZLE
- LOW PRESSURE SUPERVISORY PRESSURE SWITCH
- FM200 GAS BOTTLE SOLENOID
- GAS DISCHARGED PRESSURE SWITCH
- "DO NOT ENTER" WARNING PLATE (SEE NOTE)
- "EVACUATE" WARNING PLATE
- HOSE REEL
- EXISTING HOSE REEL

- CONTROL CIRCUIT
- AFA LOOP CIRCUIT
- POWER CIRCUIT
- GAS PIPE WORK

ABBREVIATION:

AFA	AUTOMATIC FIRE ALARM & DETECTION SYSTEM
FAP	FIRE ALARM PANEL
SCR	STATION CONTROL ROOM
EXF	EXHAUST AIR FAN
MFD	MOTORIZED FIRE DAMPER
LMCP	LOCAL MOTOR CONTROL PANEL FOR EXHAUST AIR FAN
PCU	PACKAGED CONDENSER UNIT
CTER	COMMON TELECOMMUNICATION EQUIPMENT ROOM
GBR	GAS BOTTLE ROOM
FS	FIRE SERVICES
VAC	VENTILATION AND AIR CONDITIONING

NOTES:

1. THIS SET OF DRAWINGS SHOWS THE DESIGN INTENT ONLY. THE CONTRACTOR SHALL VERIFY ON SITE AND DETERMINE THE EXACT QUANTITY AND LOCATION OF NEW FIRE SERVICES AND EQUIPMENT TO BE REQUIRED.
2. THE FAPS AT ADM STATION IS HONEYWELL 'FS90PLUS' / 'XLS SYSTEM' MODE 1.
3. CLEAN AGENT EXTINGUISHING SYSTEM SHALL BE PROVIDED FOR THE EQUIPMENT ROOMS AS SPECIFIED.
PLEASE ALSO REFER TO DWG./F00/002 FOR THE GENERAL NOTES AND REQUIRMENTS OF CLEAN AGENT SYSTEM.
4. THE ESTIMATED VOLUMES SHOWN IN THIS SET OF DWGS ARE FOR INDICATION ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT ROOM VOLUMES AND PROPOSE THE REQUIRED AMOUNT OF GAS FOR APPROVAL.
5. ITEMS SHOWN ON THIS SET OF DRAWINGS ARE NEW UNLESS OTHERWISE SPECIFIED.

SUBSCRIPT:

F/B	FROM BELOW
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
R	RELOCATED

KEY PLAN

A

FIRST ISSUE

CB

DEC 2012

DF

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.
© MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.

BY

DATE

APP

DRAWN

DESIGNED

CHECKED

APPROVED

DATE

DEC 2012

ORIGINATOR

OPERATION DIVISION

BIM REF.

TITLE

CS011.A-12E
E&M SERVICES DIVERSION AND BUILDERS WORKS
FOR PLATFORM WALL BREAKTHROUGH AT ADM
LEGEND, ABBREVIATION AND NOTE

SCALE

NTS

FIGURE NO.

F00/001

REV.

A

1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED, DO NOT SCALE THE DRAWINGS.
2. ALL SUPPLY AIR GRILLES / REGISTERS SHALL BE DOUBLE DEFLECTION UNLESS OTHERWISE INDICATED.
3. ALL EXHAUST AIR GRILLES / REGISTERS SHALL BE LOUVRE TYPE UNLESS OTHERWISE INDICATED.
4. ALL SUPPLY, RETURN AND EXHAUST AIR DIFFUSERS / GRILLES / REGISTERS SHALL BE COMPLETE WITH OPPOSED BLADE VOLUME CONTROL DAMPERS.
5. AIR TIGHT ACCESS PANEL SHOULD BE PROVIDED ON AIR DUCTS ADJACENT TO FIRE DAMPERS FOR INSPECTION AND MAINTENANCE.
6. ALL ANTI-VIBRATION MOUNTING FOR EQUIPMENT AND PIPEWORK SHALL BE OF SPRING TYPE UNLESS OTHERWISE SHOWN ON DRAWINGS.
7. ALL DUCT ELBOWS / BENDS MUST BE FITTED WITH TURNING VANES TO DW144 STANDARD.
8. UNLESS OTHERWISE SPECIFIED, THE AIR GRILLE, LOUVRES AND DIFFUSERS C/W BRANCH DUCTS SHALL BE INSTALLED TO MATCH THE FALSE CEILING LEVEL AND LAYOUT. THE EXACT LOCATION OF AIR GRILLES, LOUVRES AND DIFFUSERS SHALL BE IDENTIFIED ON SITE. SIZE OF ALL BRANCH DUCTS TO GRILLES, LOUVRES OR DIFFUSERS SHALL BE THE SAME OF THE NECK SIZE OF THE RESPECTIVE GRILLES, LOUVRES OR DIFFUSERS UNLESS OTHERWISE SPECIFIED.
9. THE DUCT DIMENSION SHOWN ON THE DRAWING ARE THE NET SIZE EXCLUDING INTERNAL LINING & EXTERNAL INSULATION THICKNESS.
10. SUPPLY AND INSTALL ALL THE FIRE DAMPERS IN ALL THE AIR DUCTS PASSING THROUGH THE FIRE RATED WALLS / SLABS.
11. UNLESS OTHERWISE STATED, THE FIRE DAMPERS AND MFSDs FOR THE FIRE RATED WALL ADJOINTED ESCAPE STAIRCASE OR VENT SHAFT SHALL BE 4 HOURS FRP. ALL OTHER FIRE DAMPERS SHALL BE 2 HOURS FRP.
12. THE EQUIPMENT/MATERIAL OFFERED, THE FINAL SERVICES ROUTING AND ALL THE CALCULATIONS SHALL BE SUBMITTED TO ENGINEERS FOR APPROVAL.
13. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT INCLUDING HANGER/BRACKETS TO ALL THE E&M SERVICES (SUCH AS DUCTWORKS, PIPEWORK, CABLE TRAYS & EQUIPMENT) THAT ARE MOUNTED AND SUPPORTED ON THE WALL WHICH IS TO BE REMOVED AFTER REMOVAL OF THE WALL, PERMANENT SUPPORTS INCLUDING BRACKETS/HANGERS AND THE ASSOCIATED BUILDER'S WORKS TO THESE E&M SERVICES SHALL BE PROVIDED.
14. ALL AIR GRILLES/REGISTERS/LOUVRES/LINEAR DIFFUSER SHALL BE MADE OF ALUMINIUM WITH FINISHES TO ENGINEER'S SATISFACTION. SAMPLE SHALL BE SUBMITTED PRIOR TO ORDERING AND INSTALLATION.
15. THE SIZE OF ACCESS PANEL ON AIR DUCT SHALL BE MINIMUM 150mmx150mm FOR AIR DUCT WIDTH/DEPTH NOT EXCEEDING 200mm, 300mmx300mm FOR AIR DUCT WIDTH/DEPTH NOT EXCEEDING 400mm, 600mmx600mm FOR AIR DUCT WIDTH/DEPTH NOT EXCEEDING 1000mm, 2 NOS. 600mmx600mm FOR AIR DUCT WIDTH/DEPTH NOT EXCEEDING 1500mm AND FULL DUCT WIDTH FOR THOSE AT RETURN PLENUM OF THE UNIT.
16. THE CONTRACTOR SHALL CARRY AIR FLOW MEASUREMENT FOR THE EXISTING AIR DUCT WHICH IS TO BE REPLACED/MODIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE AIR BALANCING AFTER MODIFICATION/REPLACEMENT WORKS.
17. UNLESS OTHERWISE SPECIFIED, THE RELATED POWER SUPPLY INCLUDING CABLES, STARTERS, COMPONENTS INSIDE MCC, CABLE TRAY AND ACCESSORIES SHALL BE REPLACED/PROVIDED FOR THE ECS INSTALLATION.
18. PENETRATION OF SERVICES THROUGH FIRE COMPARTMENT WALL SHALL USE G.I. SLEEVE FOR PROTECTION AND BE SEALED UP WITH FIRE RESISTANT MATERIALS TO MAINTAIN THE SAME FIRE RESISTANT RATING.

19. THE SPECIFIED EXTERNAL STATIC PRESSURES FOR FANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL SUBMIT CALCULATIONS, ACCORDING TO THE WORKING DRAWING AND ACTUAL SITE SITUATIONS, TO IDENTIFY THE EXTERNAL STATIC PRESSURE REQUIRED FOR THE FANS.
20. DIMENSION AND LOCATIONS OF NEW AND EXISTING SERVICES SHOWN ON THE DRAWINGS IS FOR REFERENCE ONLY. ACTUAL DIMENSION AND LOCATION TO BE IDENTIFIED ON SITE.
21. UNLESS OTHERWISE SPECIFIED, EXISTING FANS C/W ALL RELATED DUCTWORK, HANGERS, PIPEWORK, GRILLES, DIFFUSERS, DAMPERS, SUPPORTING FRAMES AND ACCESSORIES SHALL BE REPLACED/MODIFIED TO SUIT THE ECS SYSTEM MODIFICATION.
22. EXISTING ECS EQUIPMENT AND ACCESSORIES TO BE RETAINED ARE SHOWN IN DIMMED LINES AND THOSE TO BE NEWLY INSTALLED ARE SHOWN IN SOLID LINES.
23. ASSOCIATED BUILDING AND CIVIL ENGINEERING WORK ARE DEEMED TO HAVE BEEN INCLUDED IN THIS CONTRACT SUM TO MEET THE REQUIREMENTS OF SYSTEM MODIFICATION. AFTER INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBSEQUENT TOUCH-UP REPAIRING, PAINTING AND MAKING GOOD OF THE AFFECTED WALLS, PARTITIONS, FLOOR, AND CEILINGS TO MATCH THE EXISTING COLOUR AND FINISH.
24. EVERY MOTOR HAVING A RATING EXCEEDING 0.37kw SHALL BE PROVIDED WITH CONTROL EQUIPMENT INCORPORATING MEANS OF PROTECTION AGAINST OVERLOAD OF THE MOTOR.
25. THE DISMANTLING AND REINSTATEMENT OF THE FALSE CEILING FOR THE ECS MODIFICATION WORKS SHALL BE INCLUDED IN THIS CONTRACT. THE AFFECTED FALSE CEILING SHALL BE MODIFIED, REPLACED, IF NECESSARY, WITH SAME COLOUR AND MATERIAL TO SUIT THE ECS SYSTEM MODIFICATION.
26. ALL THE PLINTH SHALL BE MODIFIED/REPLACED TO SUIT THE ECS SYSTEM MODIFICATION.
27. THE CONTRACTOR SHALL TRACE AND SUBSEQUENTLY IDENTIFY THE EXISTING ECS CONTROL/MONITORING CIRCUITRY OF THE EXISTING FANS. ALL THE EXISTING REMOTE CONTROL/MONITORING SIGNAL CABLE OF THE REPLACED FANS SHALL BE RE-INSTATED AND RE-COMMISSIONED BY THE CONTRACTOR.
28. PLEASE NOTE THAT THE INFORMATION PROVIDED ABOVE AND ON THE AS-BUILT DRAWINGS/EXISTING LAYOUT ARE FOR REFERENCE ONLY AND THE CORPORATION SHALL NOT BE LIABLE FOR ANY INACCURACY OR NON-COMPLETENESS OF SUCH INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING AND VERIFYING ALL ACTUAL INFORMATION DIMENSION ON SITE FOR EXECUTION OF THE WORKS.
29. STARTING CAPACITOR, IF IT IS A STARTER PART, OF THE FAN MOTOR SHALL COMPLY WITH BS EN60252:-2001 STANDARD OF CLASS A.
30. THE CONTRACTOR SHALL TRACE AND SUBSEQUENTLY IDENTIFY AND SUGGEST APPROPRIATE EQUIPMENT DELIVERY ROUTES AND METHOD FOR THE WORKS. ALL COSTS AND INTERFACE WORKS RELATED TO THE DELIVERY MATTER AND EQUIPMENT ALTERNATION MODIFICATION SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
31. THIS DRAWING IS APPLICABLE TO ALL ECS INSTALLATIONS AT ALL LOCATIONS OF THIS CONTRACT.

PLOT DRW: MODEL NAME: FILE NAME:	2012/12/27 14:36:08	ABBREVIATIONS FOR ECS:									
		AEF	ACCOMMODATION EXTRACT FAN	FAD	FRESH AIR DUCT	PAU	PRIMARY AIR HANDLING UNIT				
		ASF	ACCOMMODATION SUPPLY FAN	FAG	FRESH AIR GRILLE	PG	PRESSURE GAUGE				
		A/C	AIR CONDITIONING	F/A	FROM ABOVE	RA	RETURN AIR				
		AFFL	ABOVE FINISH FLOOR LEVEL	F/B	FROM BELOW	RAG	RETURN AIR GRILLE				
		AP	ACCESS PANEL	FAL	FRESH AIR LOUVRE	RPM	REVOLUTION PER MINUTE				
		C/W	COMPLETE WITH	FLD	FUSIBLE LINK DAMPER(FIRE RATED)	SAD	SUPPLY AIR DUCT				
		CAP	CAPACITY	F.S.	FIRE SERVICES	SAG	SUPPLY AIR GRILLE				
		CCR	CENTRAL CONTROL ROOM	QTY.	QUANTITY	SIL	SILENCER				
		CDP	CONDENSATE DRAIN PIPE	H/L	HIGH LEVEL	SS	STAINLESS STEEL				
		CECS	CENTRAL ENVIRONMENTAL CONTROL SYSTEM	IL	INVERT LEVEL	TAL	TRANSFER AIR LOUVRE				
		CHWR	CHILLED WATER RETURN PIPE	LMCP	LOCAL MOTOR CONTROL PANEL	TAD	TRANSFER AIR DUCT				
		CHWS	CHILLED WATER SUPPLY PIPE	L/L	LOW LEVEL	TAG	TRANSFER AIR GRILLE				
		COMC	CUT-OVER MARSHALLING CUBICLE	L/S	LITRE PER SECOND	T/A	TO ABOVE				
		DIA	DIAMETER	M	METRE	T/B	TO BELOW				
		°C	DEGREE CELCIUS	MCC	MOTOR CONTROL CENTRE	VCD	VOLUME CONTROL DAMPER				
		DB	DECIBEL	MFSD	MOTORISED FIRE AND SMOKE DAMPER	WO	WALL OPENING				
		DOL	DIRECT ON LINE	M/S	METRE PER SECOND	FFL	FINISHED FLOOR LEVEL				
		DWG	DRAWING	M²	METER SQUARE	SCR	STATION CONTROLLER ROOM				
		DN	DOWN	M³/S	METRE CUBE PER SECOND	C/W	COMPLETE WITH				
		EAD	EXHAUST AIR DUCT	mm	MILLIMETER	F.A.	FRESH AIR				
		EAG	EXHAUST AIR GRILLE	MAX	MAXIMUM	S.A.	SUPPLY AIR				
		EAL	EXHAUST AIR LOUVRE	MIN	MINIMUM	SCD	SUPPLY CEILING DIFFUSER				
		ECSLC	ENVIRONMENTAL CONTROL SYSTEM LOCAL CONTROLLER	M/L	MID LEVEL	SAR	SUPPLY AIR REGISTER				
		ETD	ELECTROTHERMAL LINK FIRE DAMPER	NC	NORMALLY CLOSE	RAR	RETURN AIR REGISTER				
		EX	EXISTING	NO	NORMALLY OPEN	URS	UNDER ROOF SOFFIT				
		EXF	EXHAUST FAN	NRD	NON-RETURN DAMPER						
		FAF	FRESH AIR FAN	OBD	OPPOSITE BLADE DAMPER						
		FRP	FIRE RESISTING PERIOD	Pa	PASCAL (N/M²)						
				PAD	PRIMARY AIR DUCT						

LEGENDS FOR ECS:	
SYMBOLS	DESCRIPTION
	PRESSURE GAUGE
	PRESSURE SENSOR
	TEMPERATURE GAUGE
	TEMPERATURE SENSOR
	FLOW MEASURMENT SENSOR
	FLOW METER
	FLOW SWITCH
	THEMOSTAT C/W 3-SPEED CONTROLLER
	DIRECTION OF FLOW
	FAN
	ADDRESSABLE PHOTOELECTRIC PROBE TYPE SMOKE DETECTOR
	INDICATOR LAMP
	EMERGENCY STOP
	DIFFERENTIAL PRESSURE SENSOR
	INCLINED MANOMETER TYPE DIFFERENTIAL PRESSURE GAUGE FOR FILTER.
	SILENCER
	EXTRACT AIR GRILLE (EAG)
	SUPPLY AIR FITTING WITH FLOW DIRECTION
	EXTRACT AIR FITTING WITH FLOW DIRECTION
	MITRED BEND WITH TURNING VANES (REFER TO NOTE 15)
	RADIUS BEND / ELBOW WITH TURNING VANES (REFER TO NOTE 15)
	EXISTING AIR DUCT TO BE RETAINED
	FILTER
	PRE-FILTER

SYMBOLS	DESCRIPTION
	VOLUME CONTROL DAMPER
	OPPOSED BLADE DAMPER
	FUSIBLE LINK DAMPER (FIRE RATED)
	NON-RETURN DAMPER
	ELECTRO THERMAL LINK FIRE DAMPER
	MOTORISED FIRE AND SMOKE DAMPER
	EQUIPMENT
	EQUIPMENT DESCRIPTIONS
	DESIGNATION NUMBER
	THERMOMETER
	FLEXIBLE CONNECTOR (PIPEWORK)
	EXPANSION BELLOWS (PIPEWORK)
	UNION
	DRAIN WITH COCK
AIR FITTING TAG:-	
	TYPE OF AIR GRILLE/ REGISTER/DIFFUSER
	SIZE (L)mmx(W)mm
	AIR FLOW RATE(L/S)
	NUMBER OF REGISTER/DIFFUSER/ AIR GRILLE
	ISOLATOR
	FUSED SPUR UNIT
	CONTROL PANEL
	MOTORIZED ON/OFF CONTROL VALVE (TWO PORTS) (ELECTRICALLY OPERATED)
	MOTORIZED MODULATING CONTROL VALVE (TWO PORTS) (ELECTRICALLY OPERATED)
	GATE VALVE
	BALANCING VALVE

SYMBOLS	DESCRIPTION
	SUPPLY AIR DUCT TO/FROM ABOVE
	SUPPLY AIR DUCT TO/FROM BELOW
	EXHAUST AIR DUCT TO/FROM ABOVE
	EXHAUST AIR DUCT TO/FROM BELOW
	RETURN AIR DUCT TO/FROM ABOVE
	RETURN AIR DUCT TO/FROM BELOW
	AIR DUCT WITH ACCESS PANEL AT BOTTOM SIDE
	CHILLED WATER PIPE
	BUTTERFLY VALVE
	GLOBE VALVE
	REFRIGERANT PIPE
	CONDENSATE DRAIN PIPE
	GALVANIZED IRON SHEET METAL DUCT
	FLEXIBLE CONNECTION (DUCTWORK)
	FIRE RATED ENCLOSURE

NOTE:	
THIS DRAWING IS APPLICABLE TO ALL ECS INSTALLATIONS AT ALL LOCATIONS OF THIS CONTRACT.	

KEY PLAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

PART 1: SCR CORRIODR

TENDER DRAWINGS

SCR CORRIDOR DRAWING SCHEDULE						
DRAWING NUMBER		DRAWING TITLE			REVISION	SCALE
CS011.A-12E/T/ADM/MTR/	A00/100	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	DRAWING LIST	A	NIL
CS011.A-12E/T/ADM/MTR/	A11/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	CONCOURSE LEVEL-NEW SCR CORRIDOR LOCATION PLAN		A	NTS
CS011.A-12E/T/ADM/MTR/	A12/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	GENERAL LAYOUT	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	A38/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	CO-ORDINATED BUILDING SERVICES LAYOUT	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	A38/102	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	CO-ORDINATED SECTION 1	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	A38/103	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	CO-ORDINATED SECTION 2	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	A38/104	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	EXISTING PLANT ROOM AND NEW CORRIDOR CUTWAY SECTIONS	A	NTS
CS011.A-12E/T/ADM/MTR/	D06/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	MODIFICATION OF DRAINAGE LAYOUT	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	E01/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	MODIFICATION OF LIGHTING	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	E08/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	DIVERSION OF LV CABLES & CABLE CONTAINMENT	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	F08/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	EXISTING PLANT ROOM AND NEW SCR CORRIDOR	EXISTING FS LAYOUT AND NEW FS LAYOUT	A	1 : 50 (A1)
CS011.A-12E/T/ADM/MTR/	M09/101	E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	CONCOURSE LEVEL - UP END (NEW SCR CORRIDOR)	MODIFICATION OF ECS INSTALLATIONS	A	1 : 50 (A1)

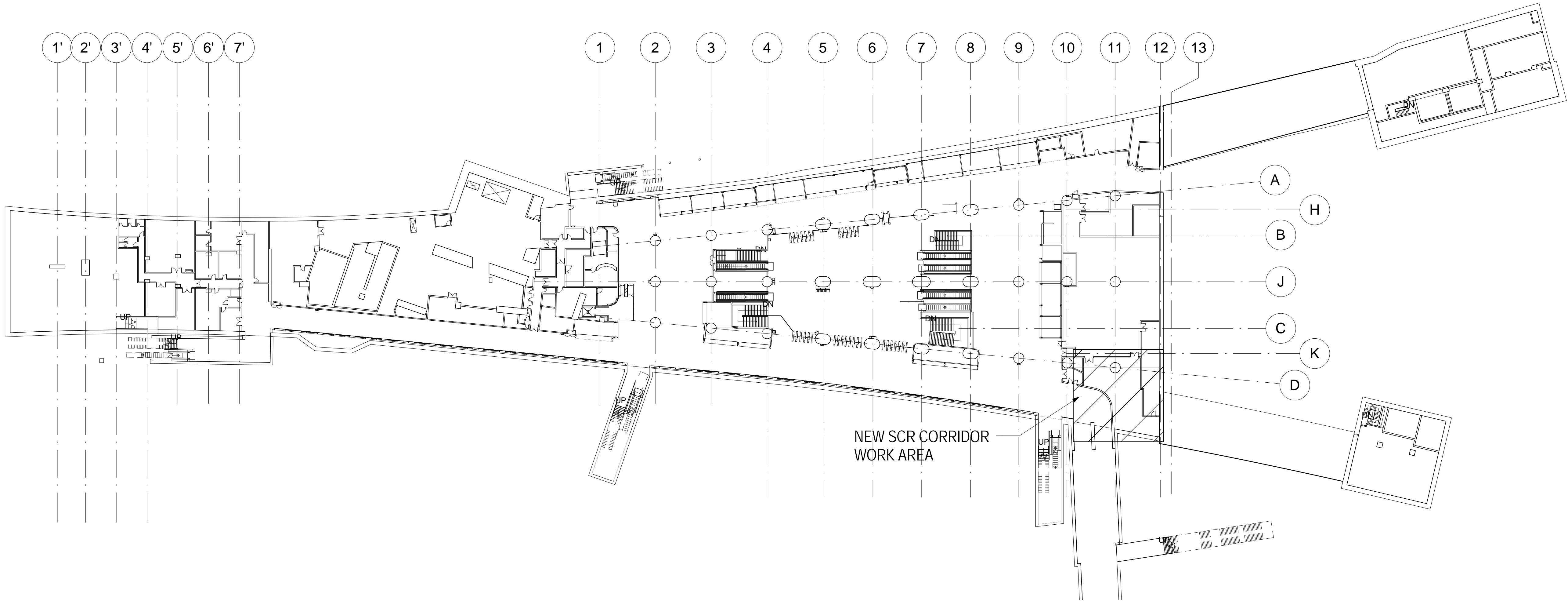
Grand total: 12

2012/12/27 14:33:48

PRINTED BY:

NOT FOR
ANALYSING
FILE NAME:

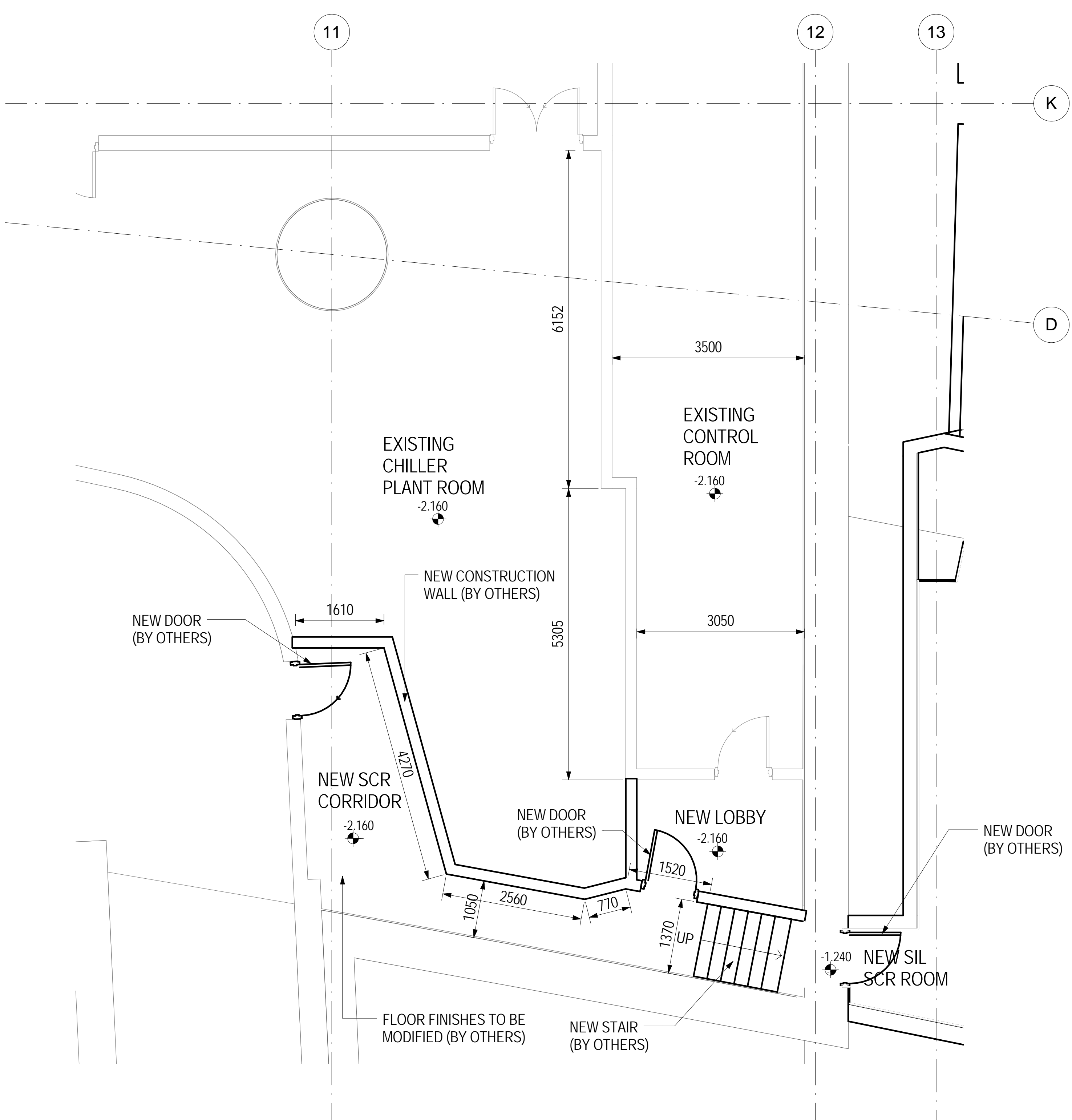
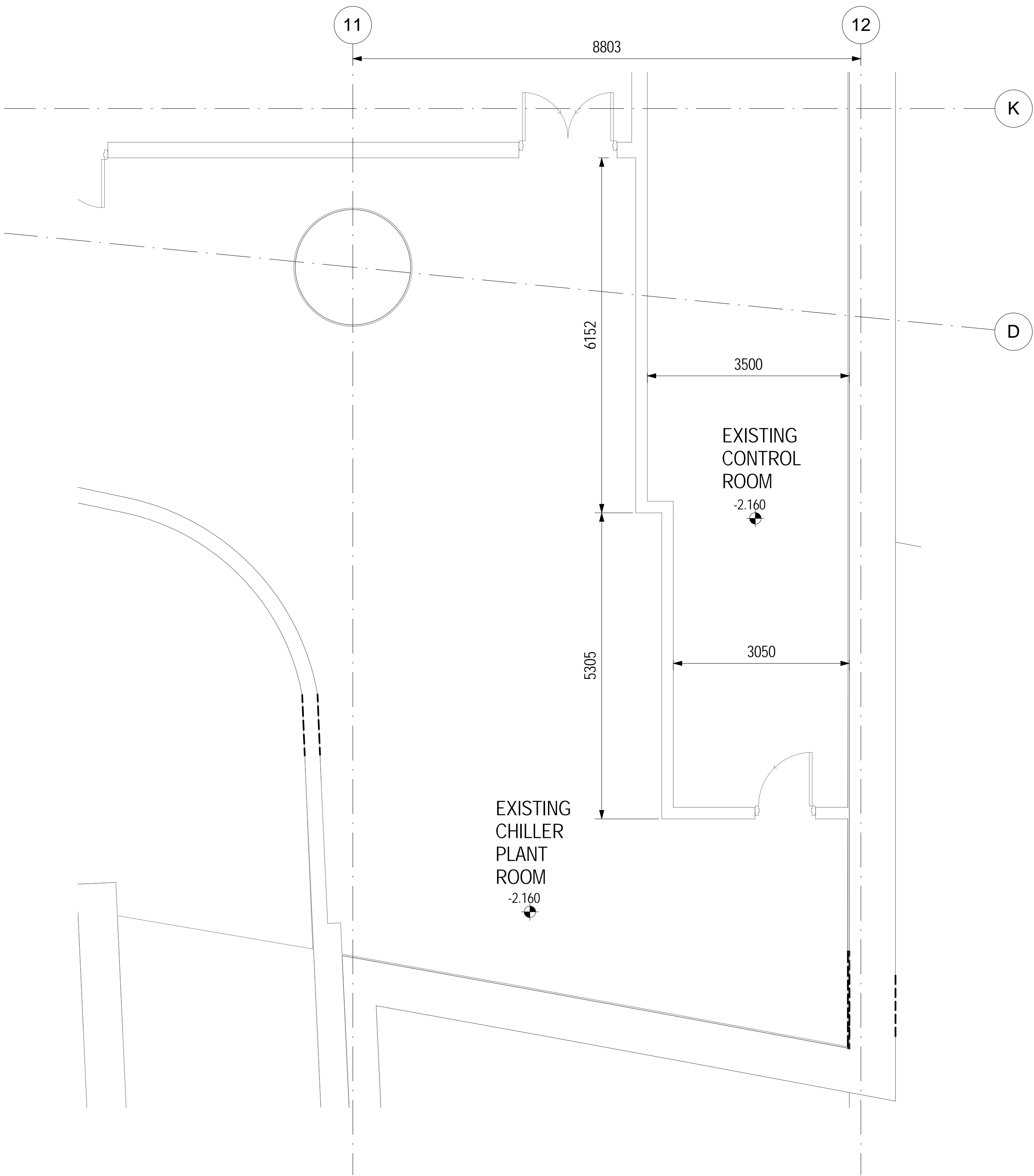
KEY PLAN						DRAWN		TITLE CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM EXISTING PLANT ROOM AND NEW SCR CORRIDOR DRAWING LIST					
						DESIGNED							
						CHECKED							
						APPROVED			ORIGINATOR				
						DATE	DEC 2012		OPERATION DIVISION				
						DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.							
										BIM REF.			
A	FIRST ISSUE		CB	DEC 2012	DF			SCALE	NIL	FIGURE NO.	A00/100	REV.	A
REV	DESCRIPTION			BY	DATE	APP							



KEY PLAN

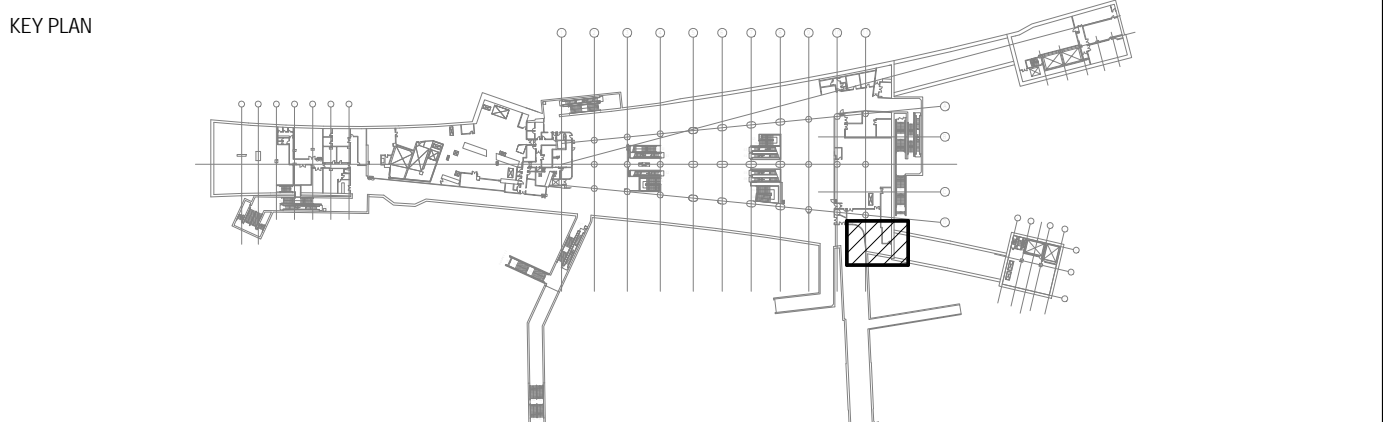
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

TITLE			
CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM CONCOURSE LEVEL-NEW SCR CORRIDOR LOCATION PLAN			
SCALE	FIGURE NO.		REV.
NTS	A11/101		A



01 EXISTING LAYOUT AT CHILLER PLANT ROOM (FOR REFERENCE ONLY)

02 NEW LAYOUT AT CHILLER PLANT ROOM

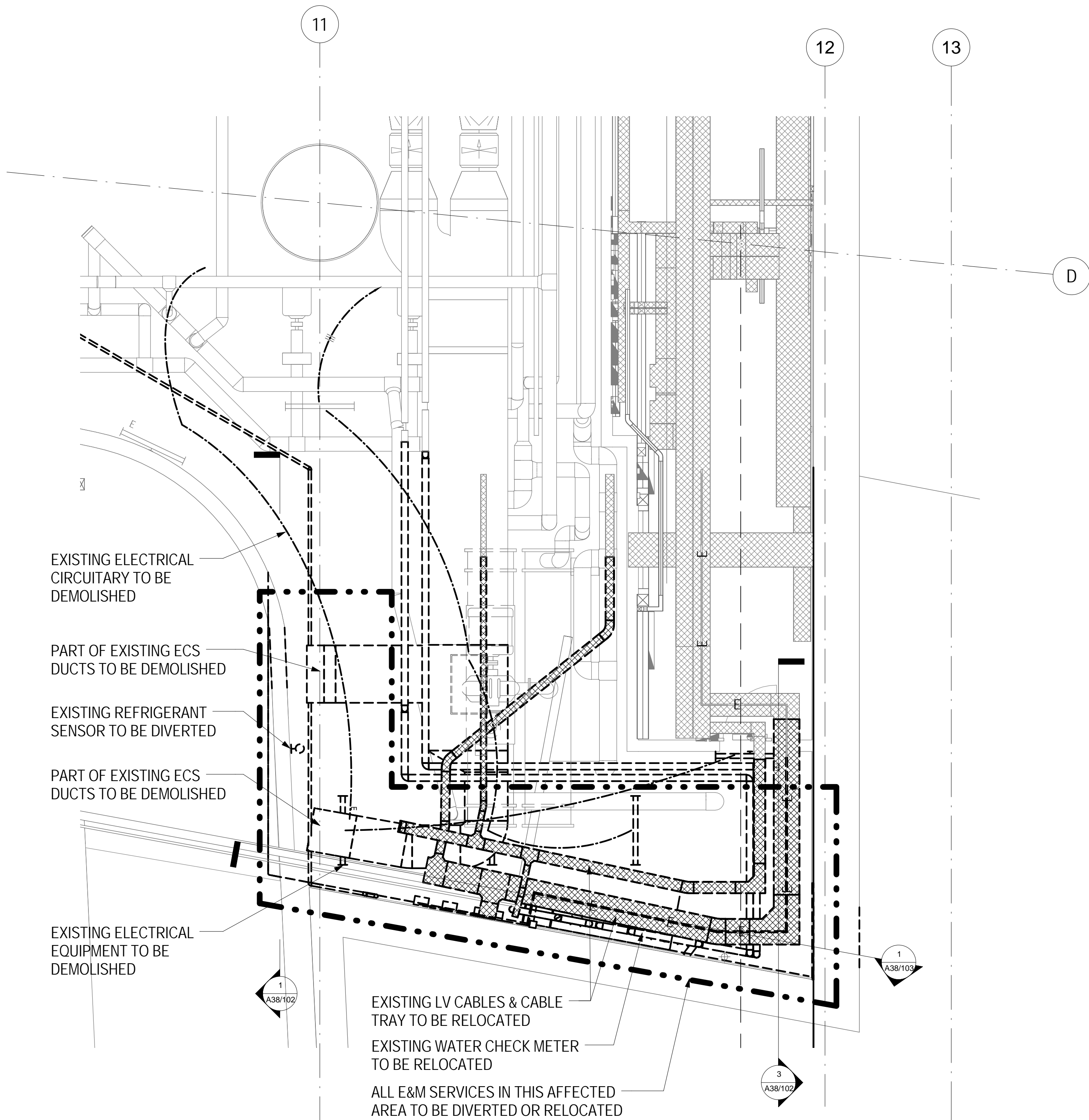


A		FIRST ISSUE	CB	DEC 2012	DF
REV		DESCRIPTION	BY	DATE	APP

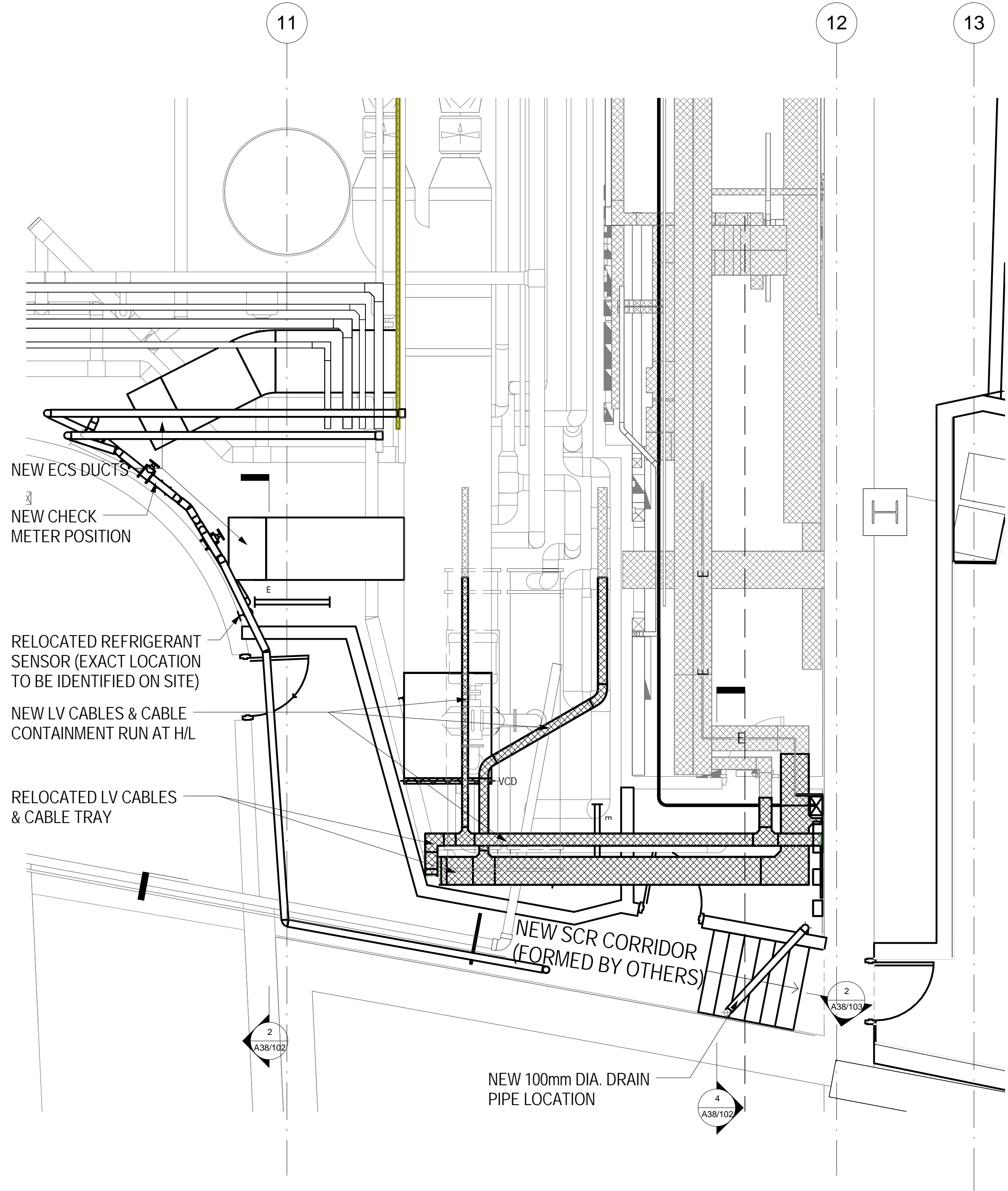
DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OR HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

OPERATION DIVISION	
BIM REF.	

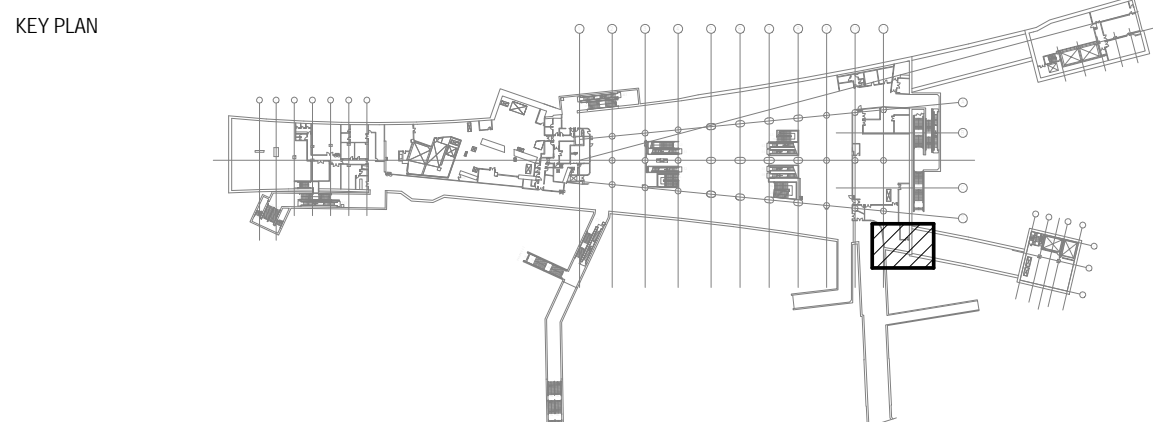
TITLE		SCALE		FIGURE NO.	REV.
CS011.A-12E		1 : 50 (A1)		A12/101	A
E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM					
EXISTING PLANT ROOM AND NEW SCR CORRIDOR					
GENERAL LAYOUT					



01 EXISTING CSD LAYOUT AT CHILLER PLANT ROOM (FOR REFERENCE ONLY)



02 NEW CSD LAYOUT AT CHILLER PLANT ROOM

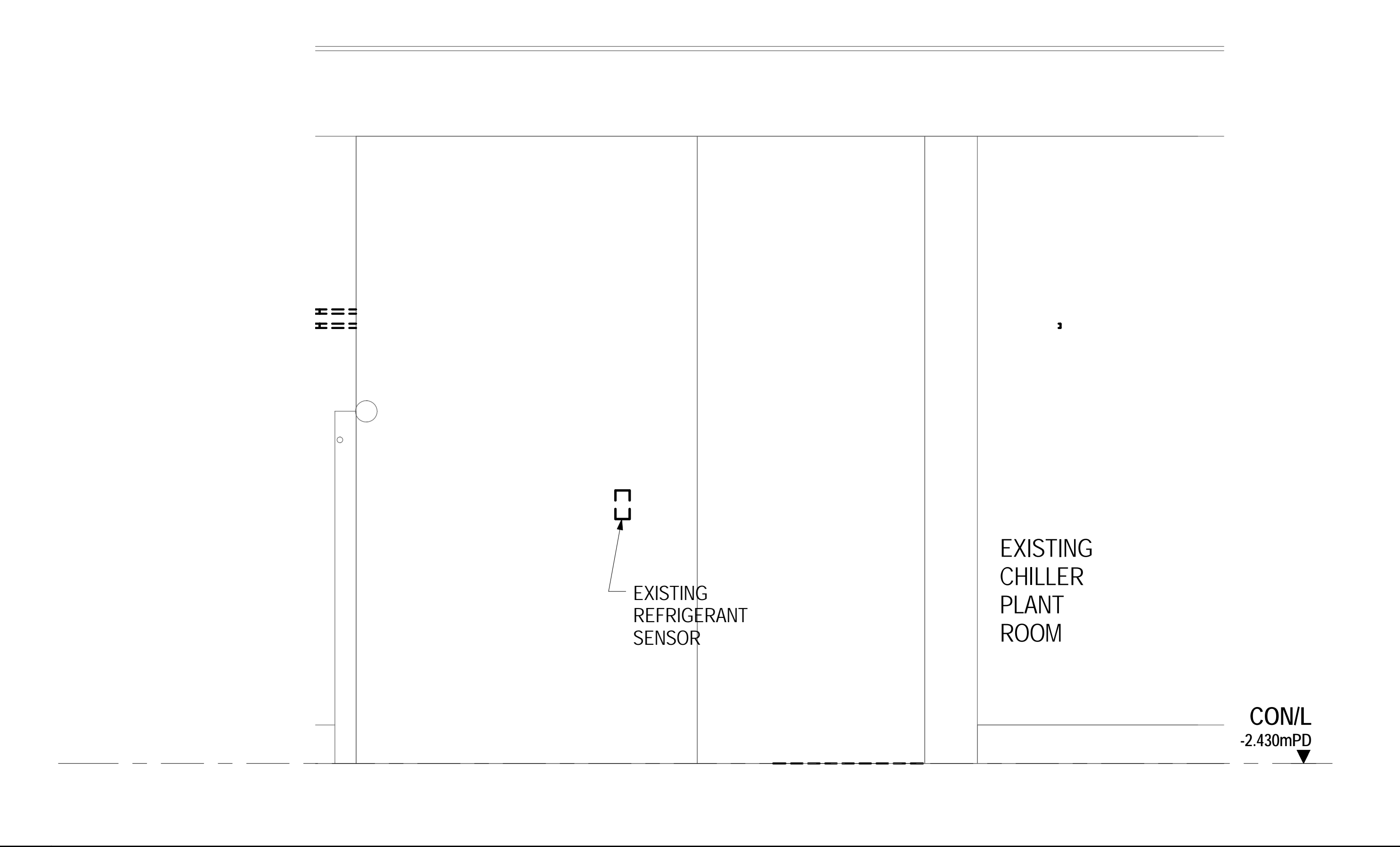


REV	DESCRIPTION	BY	DATE	APP
A	FIRST ISSUE	CB	DEC 2012	DF

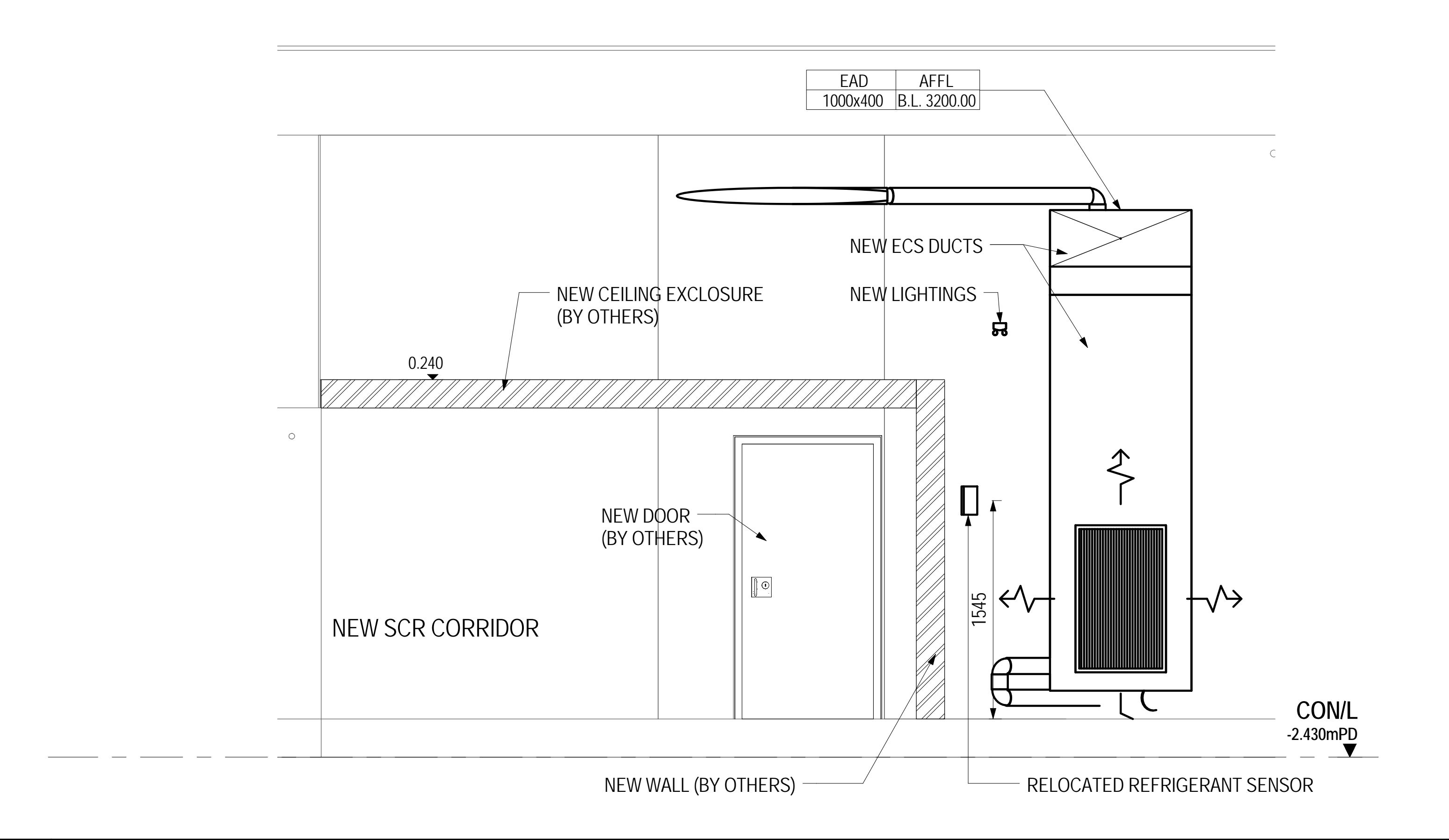
DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OR HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

ORIGINATOR	
OPERATION DIVISION	
BIM REF.	

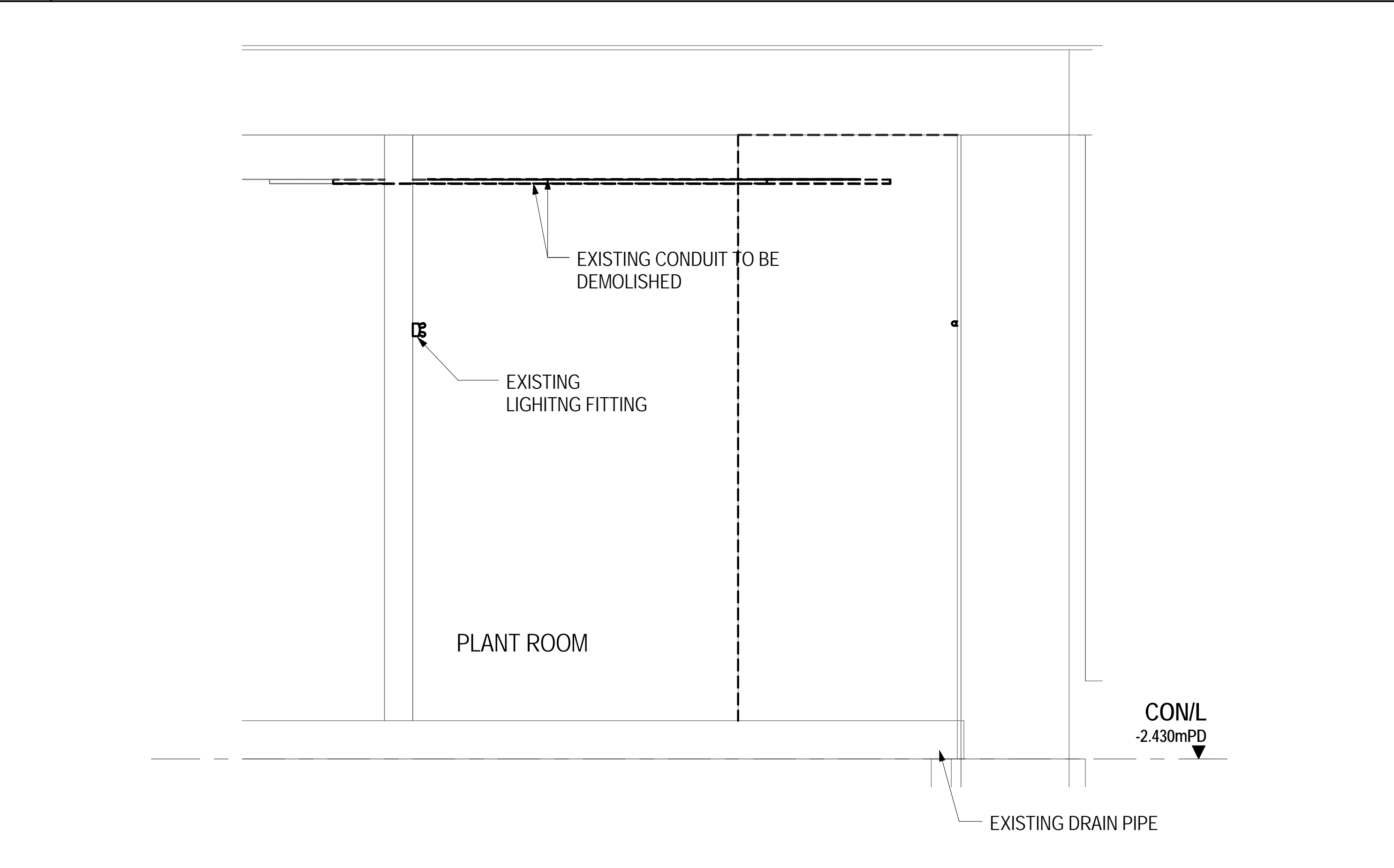
TITLE		REV.	
CS011.A-12E		A	
E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM			
EXISTING PLANT ROOM AND NEW SCR CORRIDOR			
CO-ORDINATED BUILDING SERVICES LAYOUT			
SCALE	FIGURE NO.		
1 : 50 (A1)	A38/101		



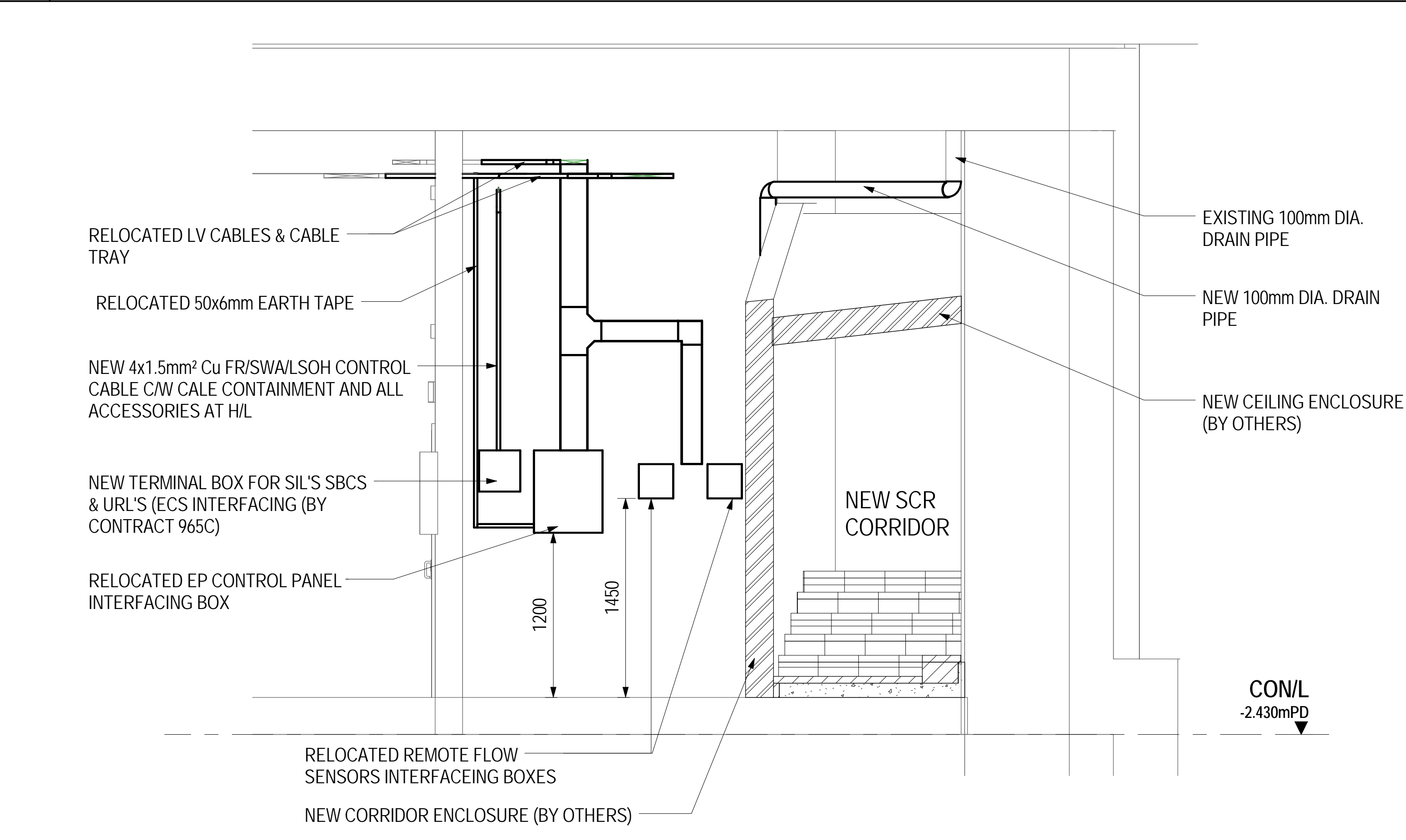
01 EXISTING PHASE - PLANT ROOM



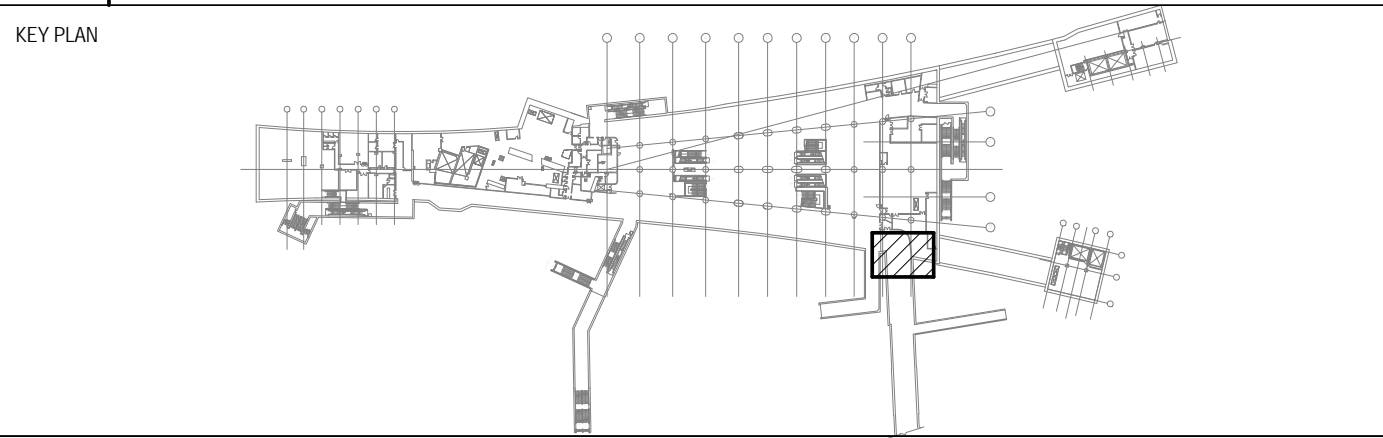
02 INITIAL PHASE - NEW CORRIDOR



03 EXISTING PHASE - PLANT ROOM



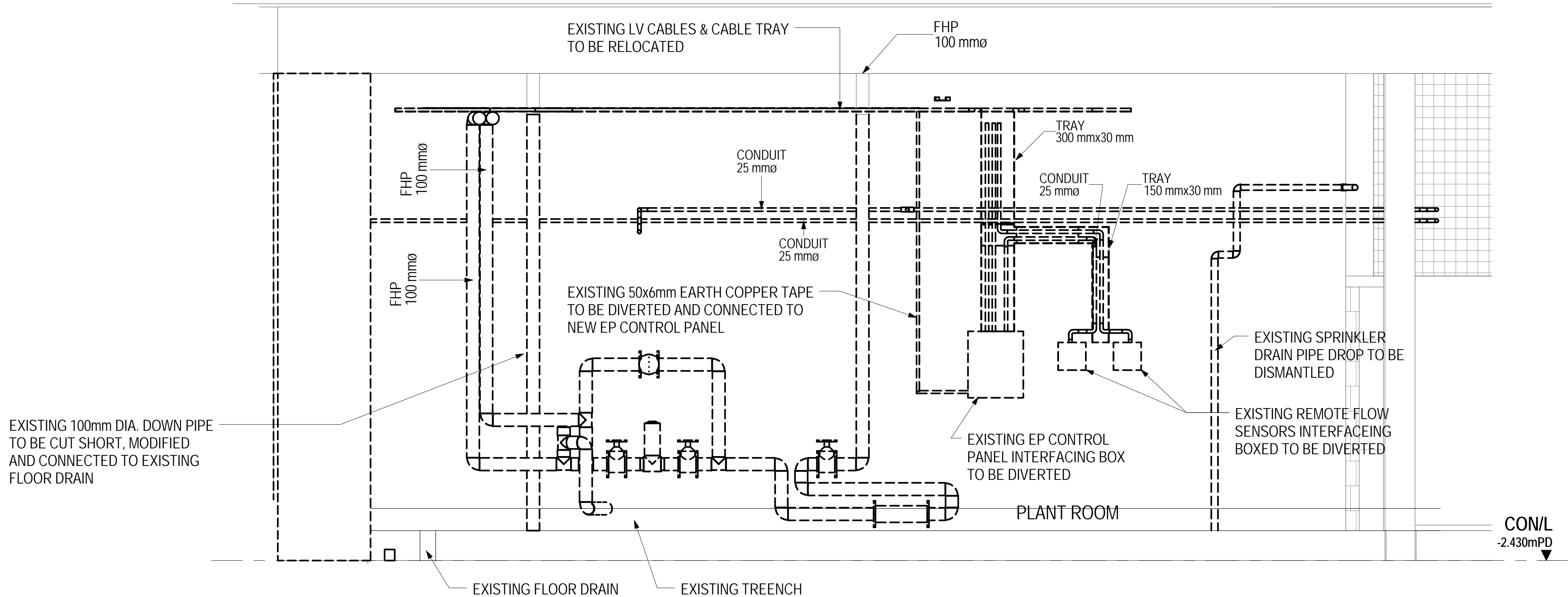
04 INITIAL PHASE - NEW CORRIDOR



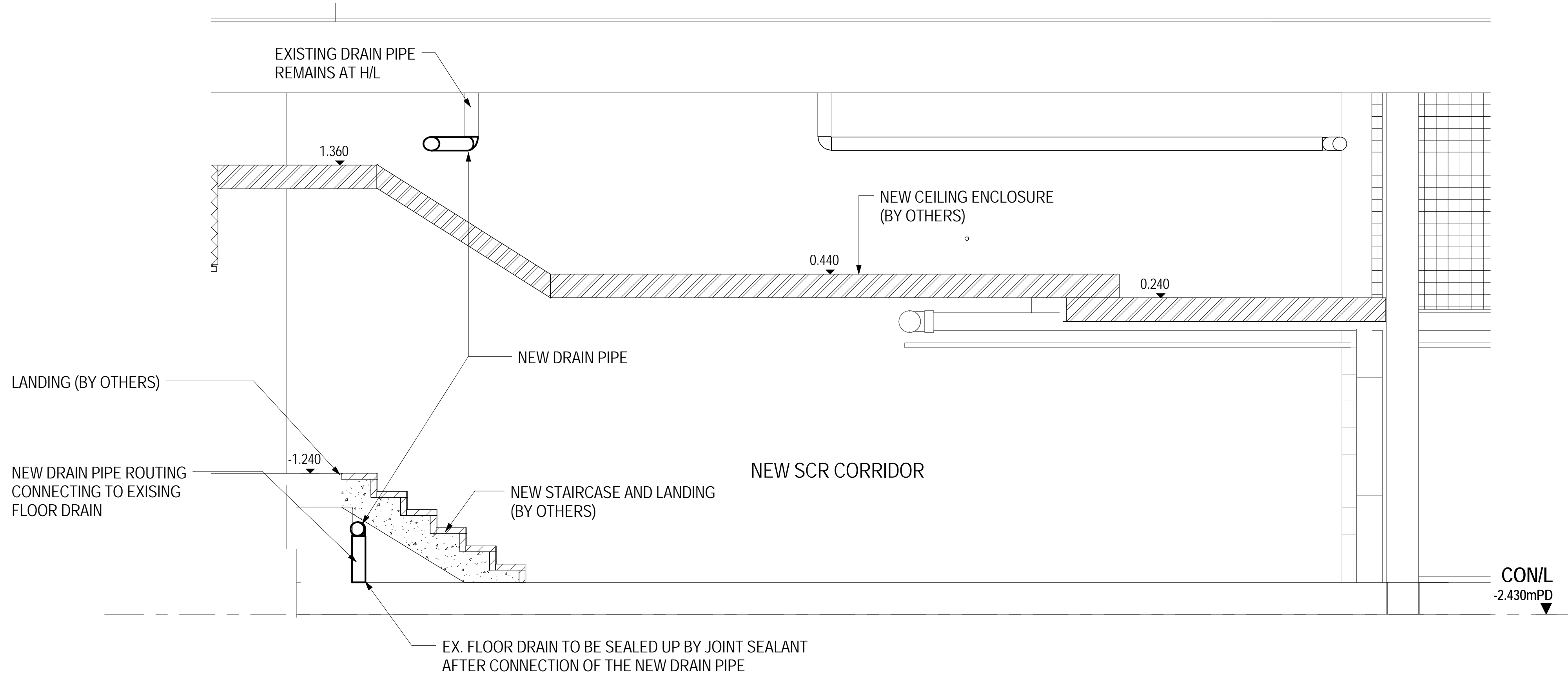
REV	DESCRIPTION	BY	DATE	APP
A	FIRST ISSUE	CB	DEC 2012	DF

DRAWN		OPERATION DIVISION
DESIGNED		
CHECKED		
APPROVED		
DATE	DEC 2012	
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OR HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.		BIM REF.

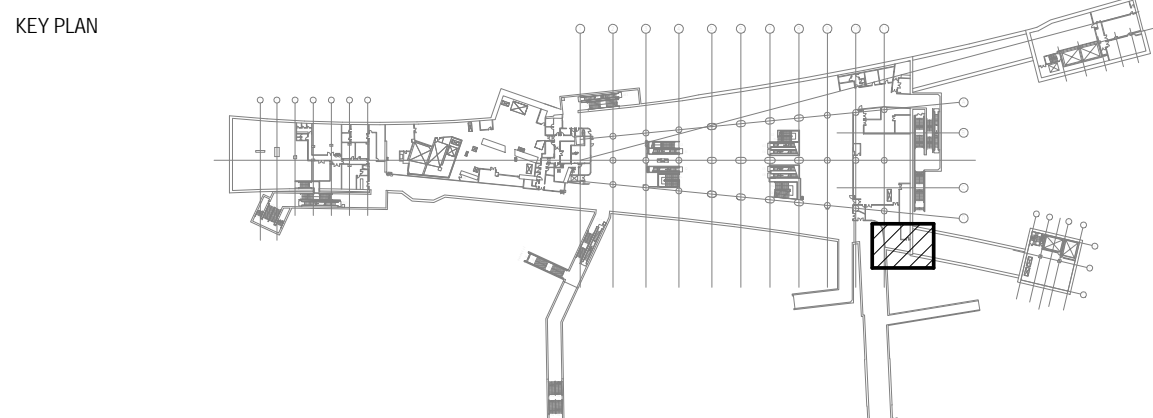
TITLE		
CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM EXISTING PLANT ROOM AND NEW SCR CORRIDOR CO-ORDINATED SECTION 1		
SCALE	FIGURE NO.	REV.
1 : 50 (A1)	A38/102	A



01 EXISTING PHASE - PLANT ROOM



02 INITIAL PHASE - NEW CORRIDOR



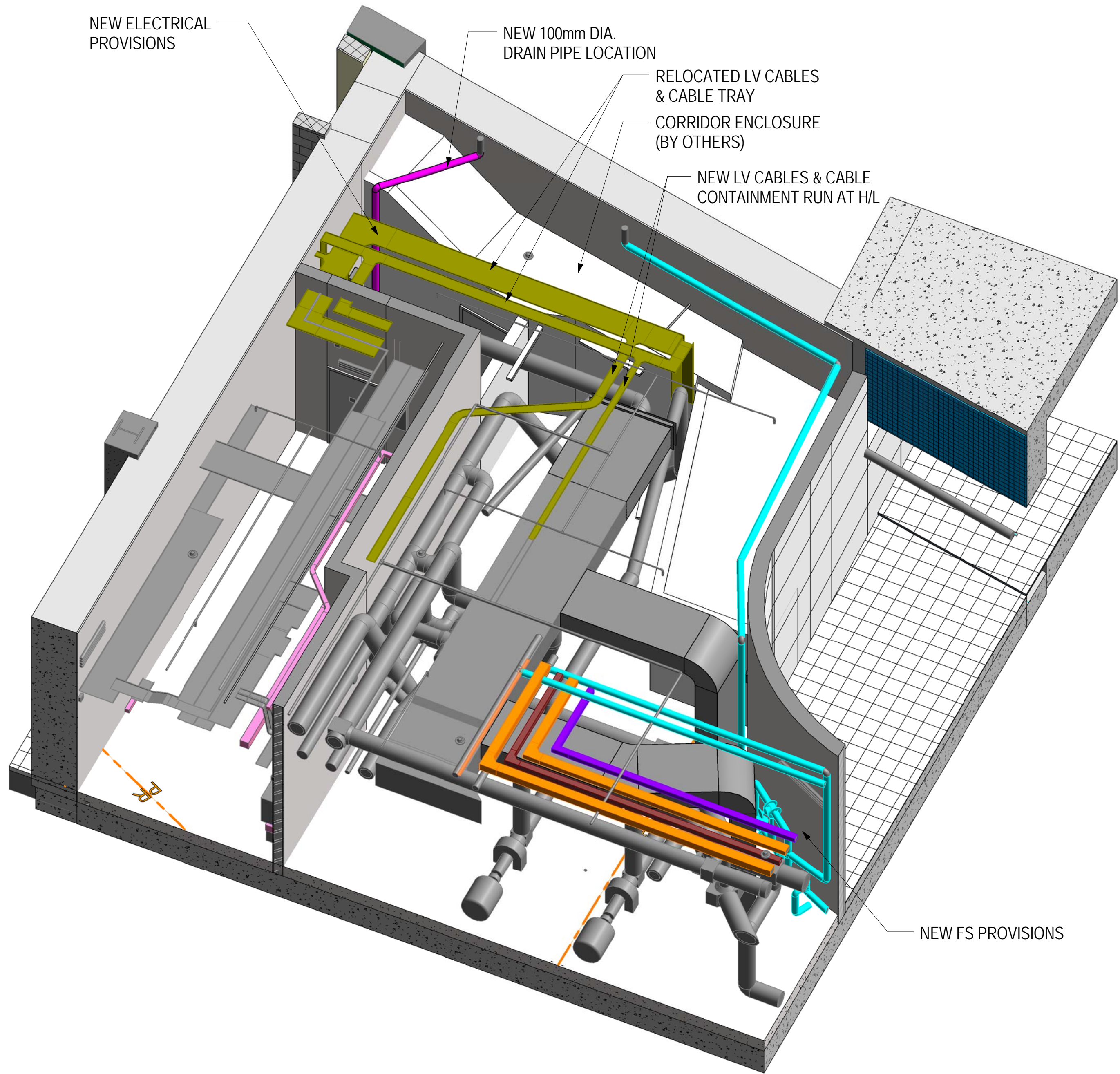
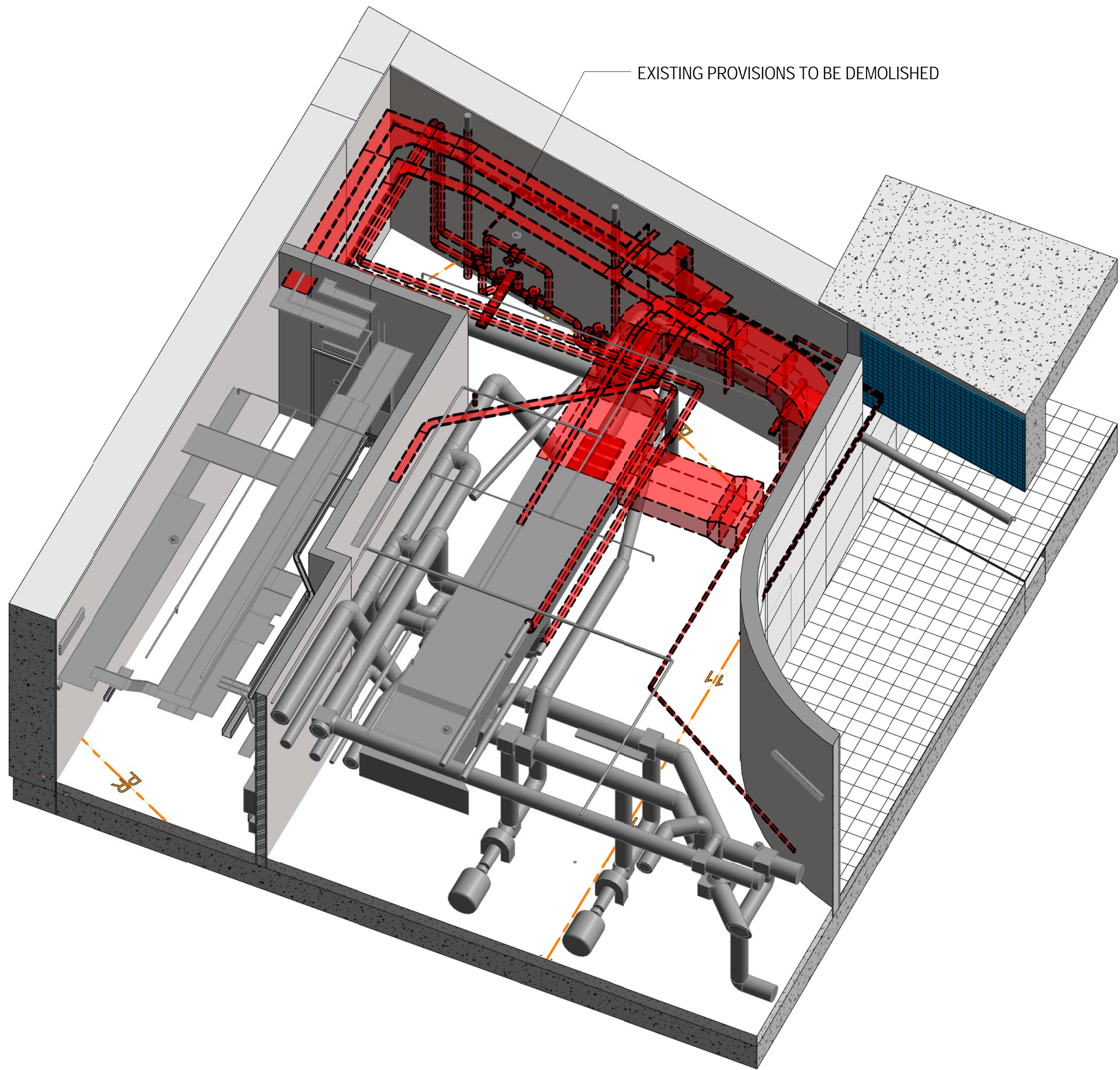
REV	DESCRIPTION	BY	DATE	APP
A	FIRST ISSUE	CB	DEC 2012	DF

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.
© MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.

DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012

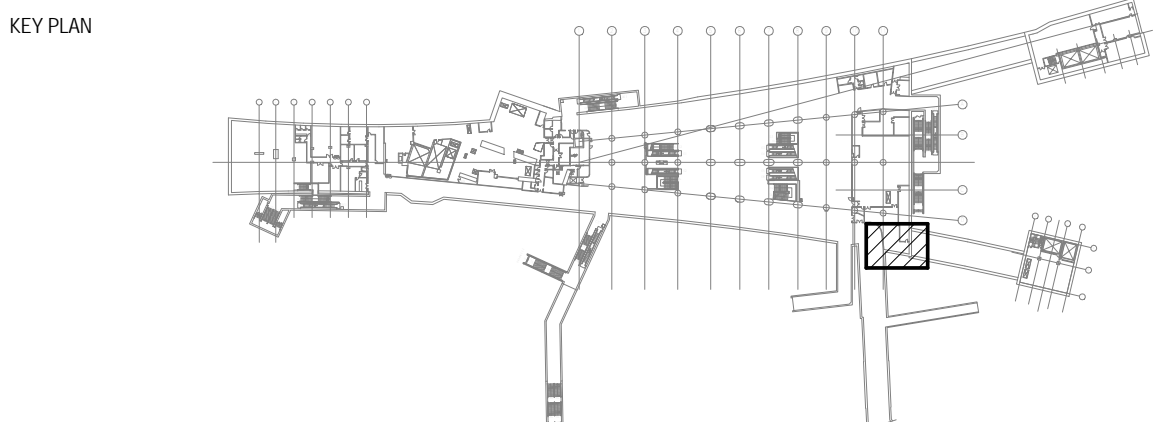
ORIGINATOR	
OPERATION DIVISION	
BIM REF.	

TITLE	CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM EXISTING PLANT ROOM AND NEW SCR CORRIDOR CO-ORDINATED SECTION 2
SCALE	1 : 50 (A1)
FIGURE NO.	A38/103
REV.	A



FOR REFERENCE ONLY

01 EXISTING PHASE - PLANT ROOM



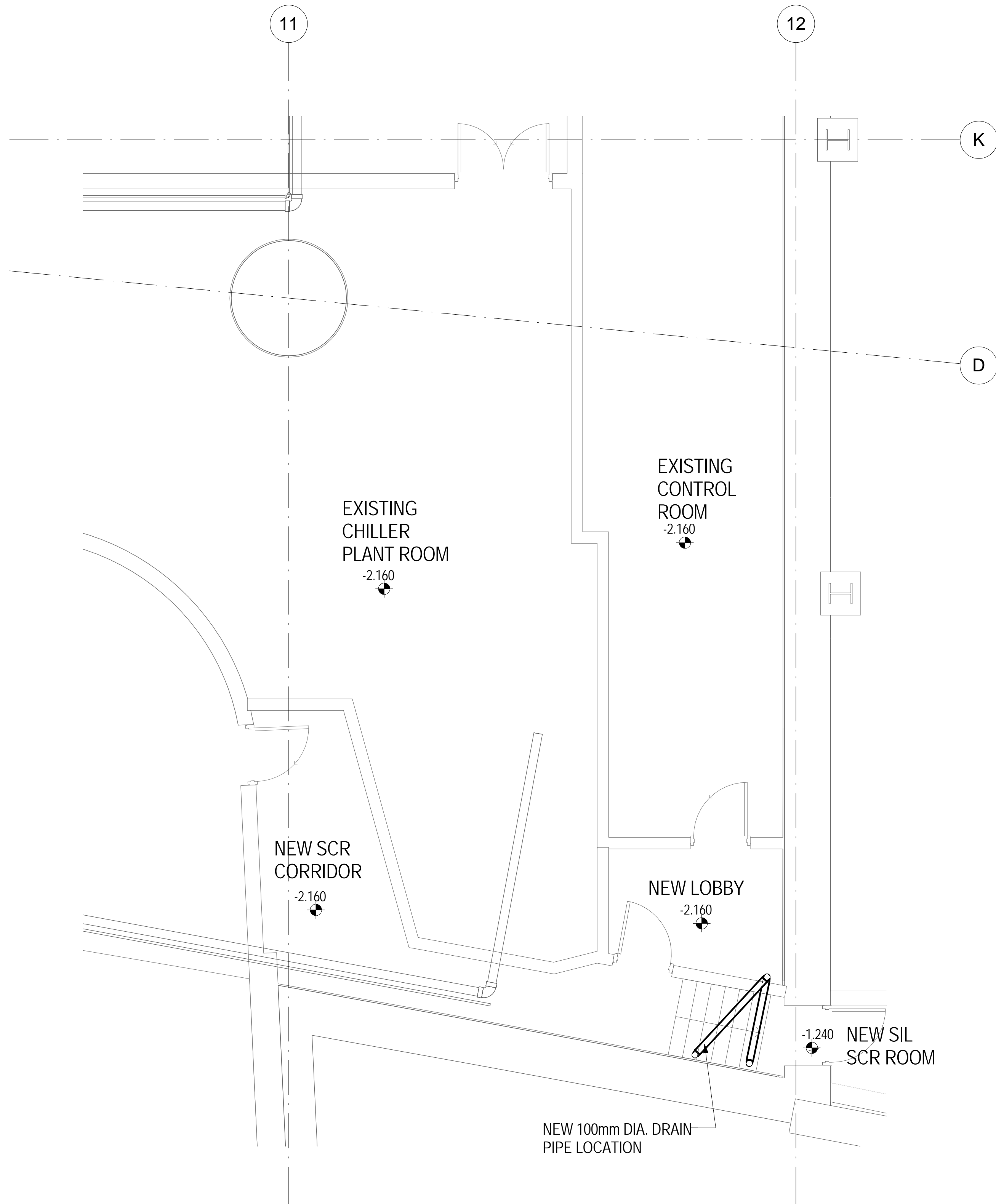
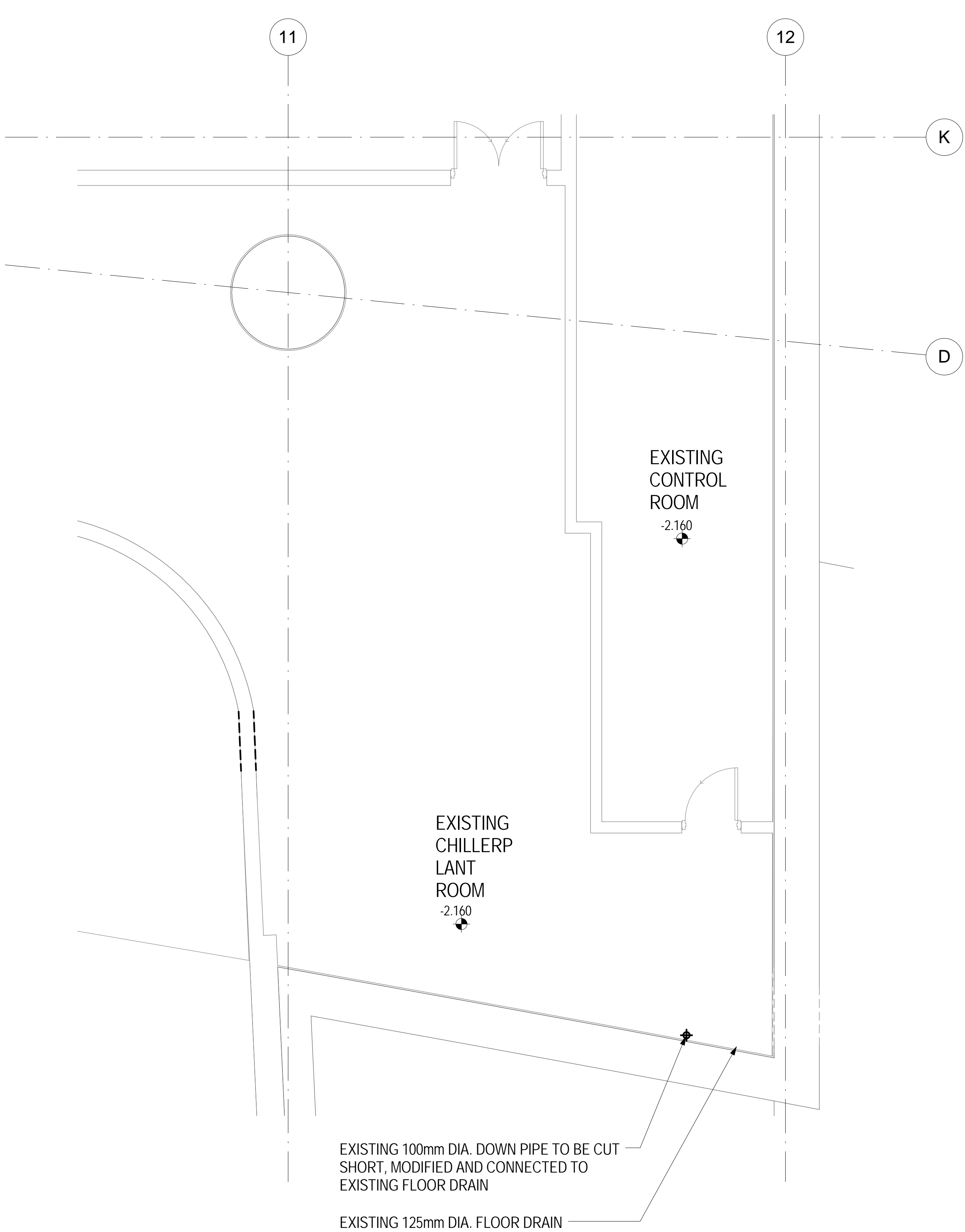
A		FIRST ISSUE	CB	DEC 2012	DF
REV		DESCRIPTION	BY	DATE	APP

DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. MTR CORPORATION LIMITED 2008 COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OR HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

02 INITIAL PHASE - NEW CORRIDOR

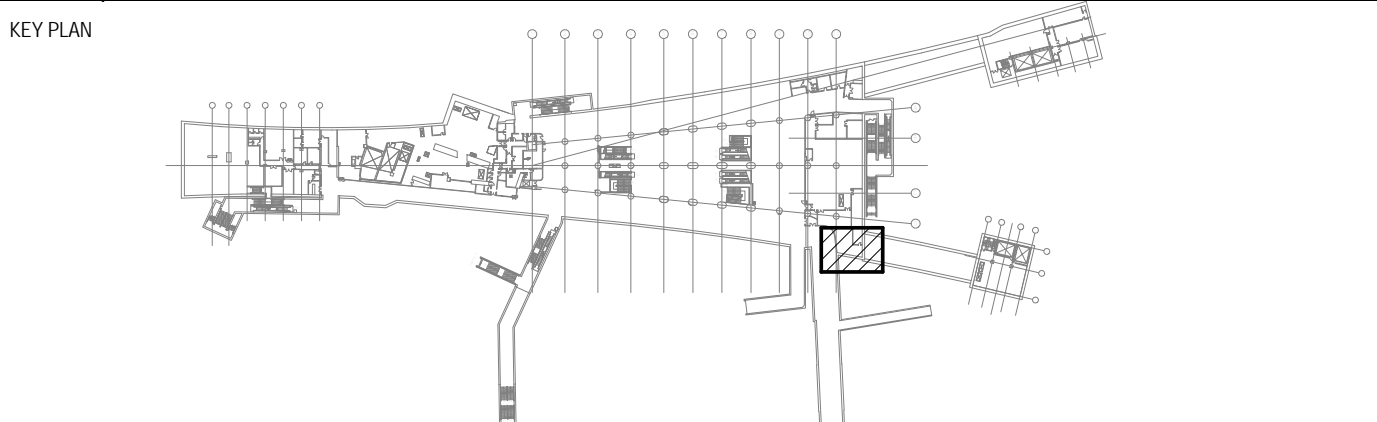
OPERATION DIVISION	
BIM REF.	

TITLE		CS011.A-12E	
		E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM	
		EXISTING PLANT ROOM AND NEW SCR CORRIDOR	
		EXISTING PLANT ROOM AND NEW CORRIDOR CUTWAY SECTIONS	
SCALE	NTS	FIGURE NO.	A38/104
REV.	A		



01 EXISTING DRAINAGE LAYOUT AT CHILLER PLANT ROOM (FOR REFERENCE ONLY)

02 NEW DRAINAGE LAYOUT AT CHILLER PLANT ROOM

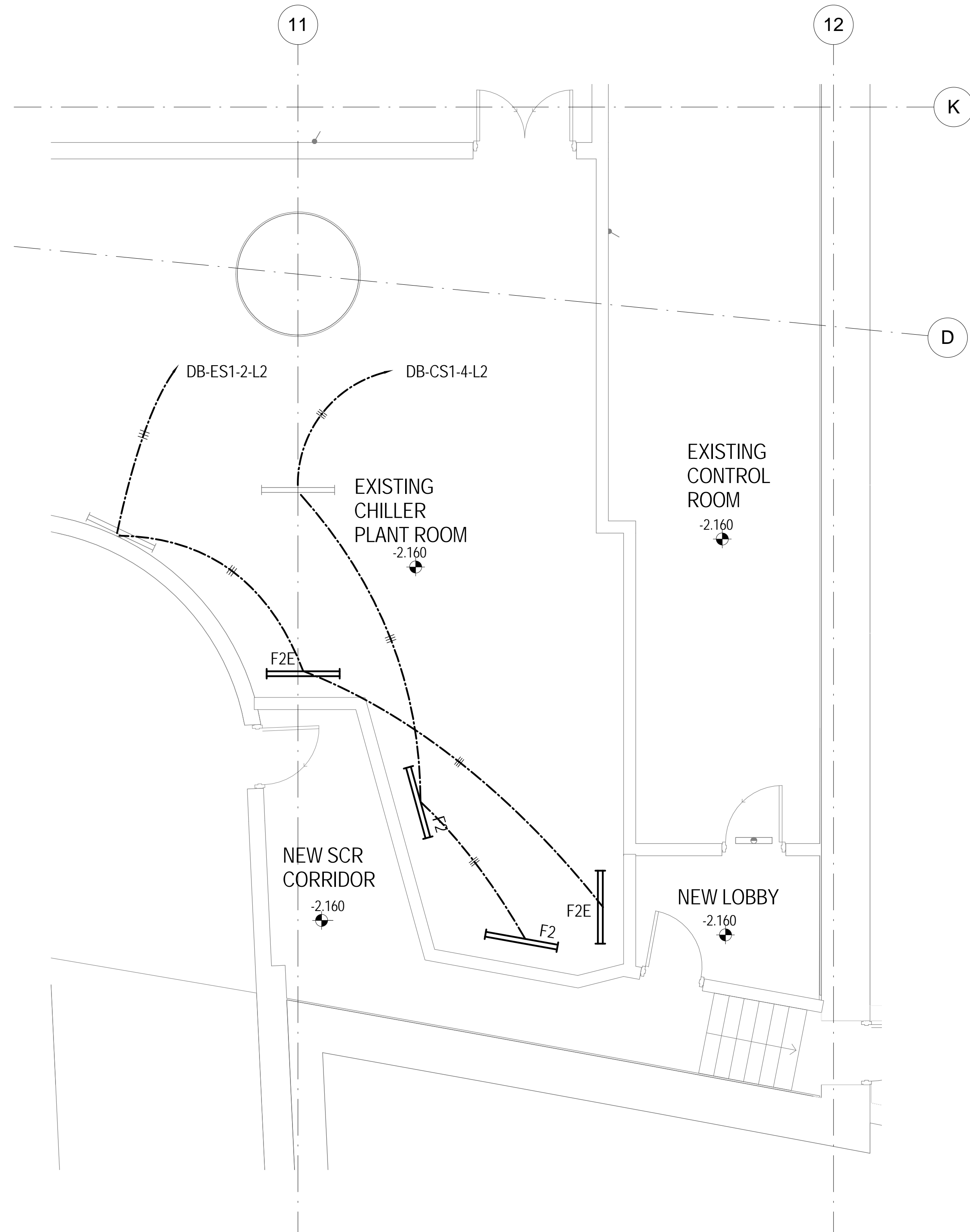


A		FIRST ISSUE	CB	DEC 2012	DF
REV		DESCRIPTION	BY	DATE	APP

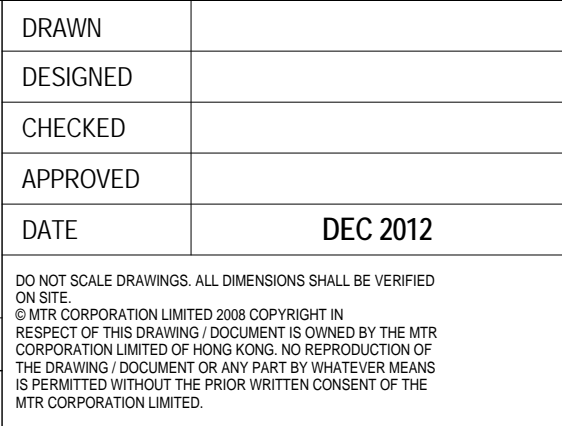
DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OR HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

OPERATION DIVISION	
BIM REF.	

TITLE		SCALE		REV.
CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM EXISTING PLANT ROOM AND NEW SCR CORRIDOR MODIFICATION OF DRAINAGE LAYOUT		1 : 50 (A1)		A
FIGURE NO.		D06/101		



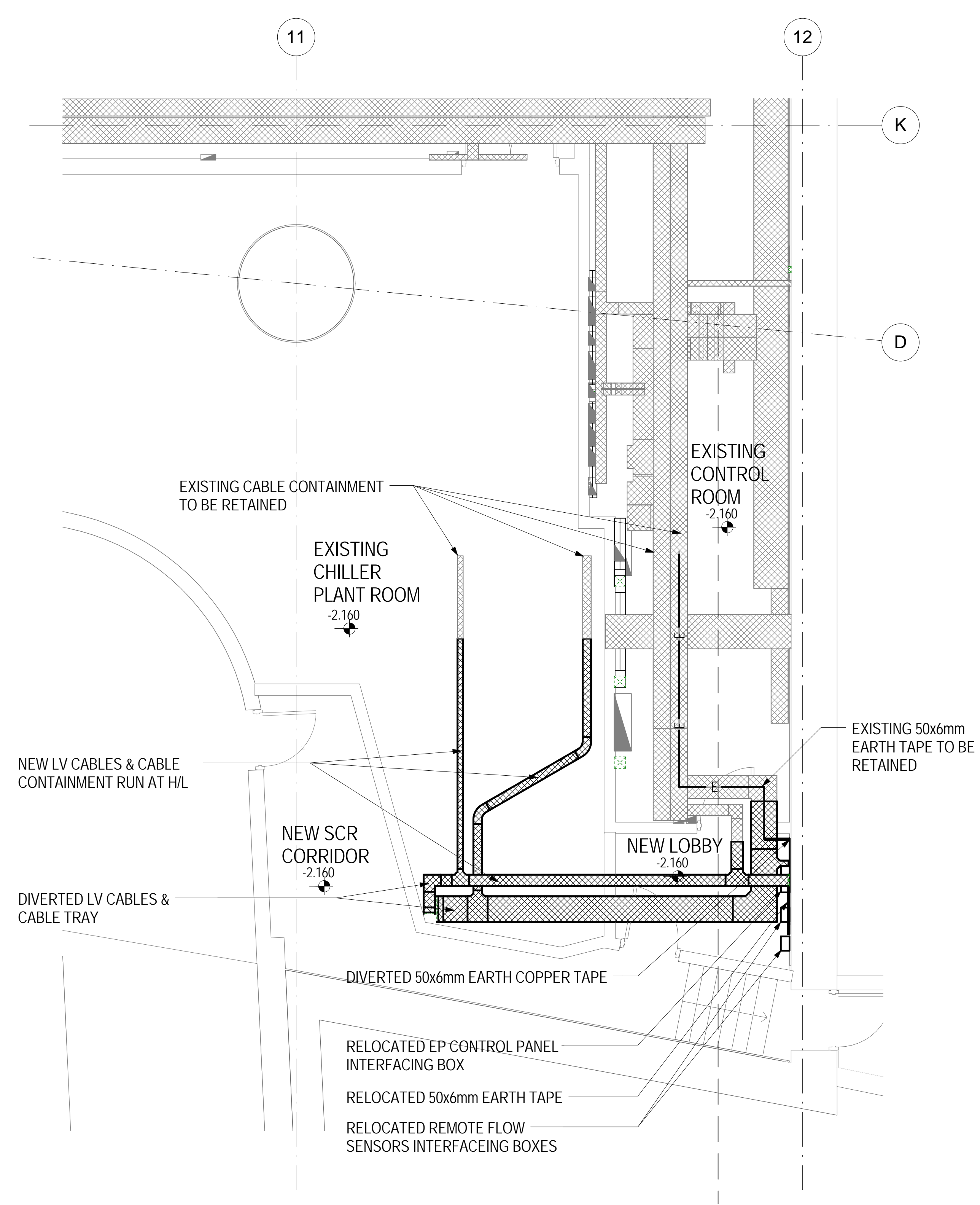
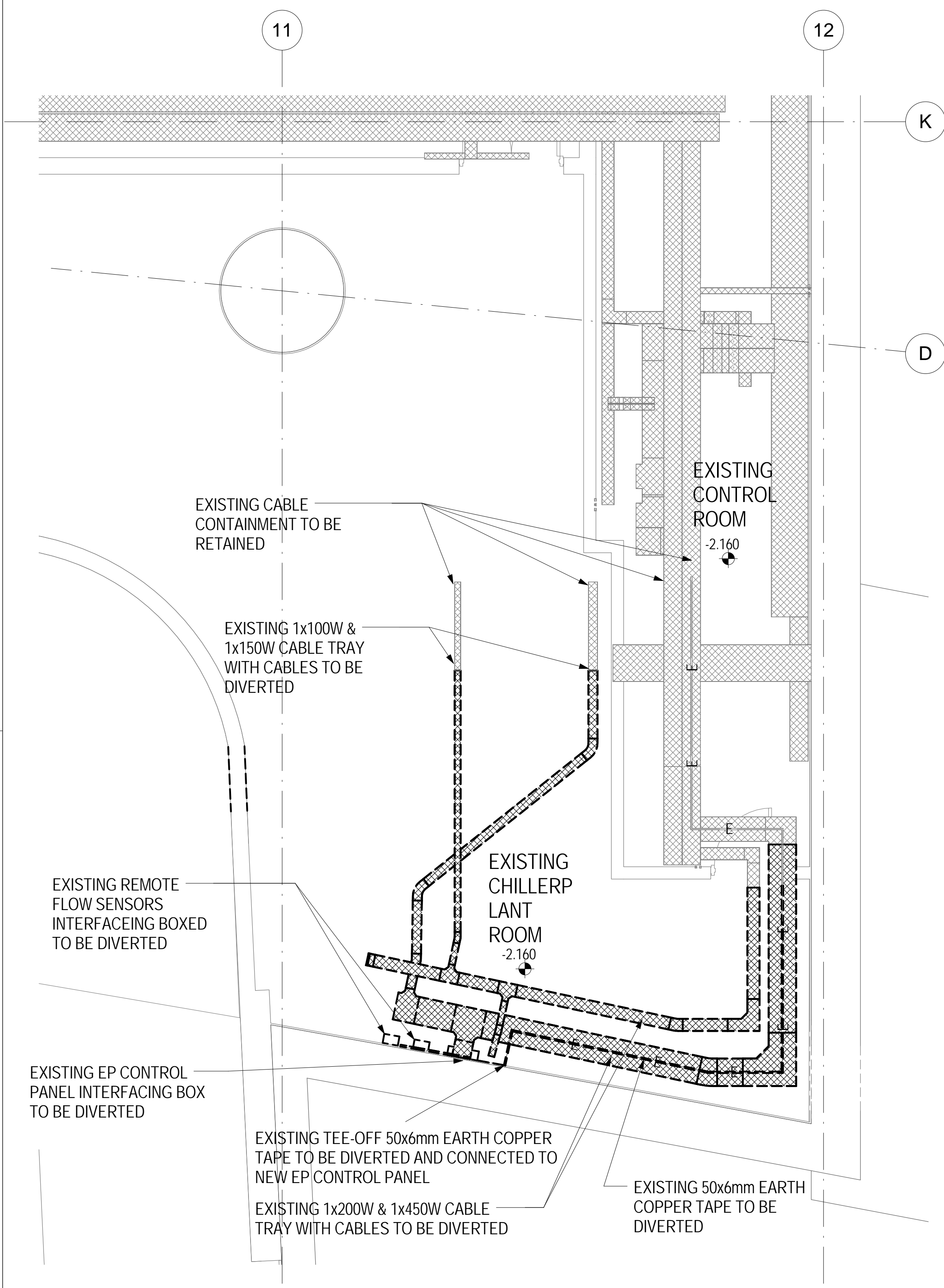
- ## 02 | NEW LIGHTING LAYOUT AT CHILLER PLANT ROOM



BIM REF.

FIGURE NO.

REV.

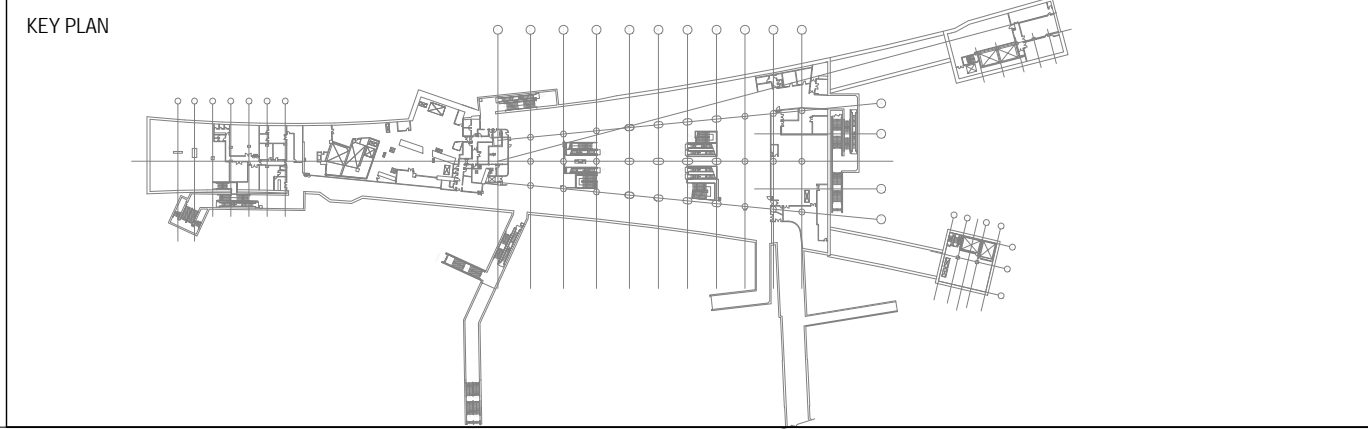


NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISMANTLING THE EXISTING CABLES & CABLE CONTAINMENTS WHICH ARE REDUNDANT FROM THE WORKS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERSION OF THE LV CABLES AND CABLE CONTAINMENT TO FACILITATE THE CONSTRUCTION WORKS OF NEW SCR CORRIDOR.
3. FOR DIVERSION REQUIREMENT & DETAILS OF CABLES FOR ECS EQUIPMENT/CONTROL PANEL, PLEASE REFER TO INDIVIDUAL ECS PARTICULAR SPECIFICATION.

01 EXISTING CABLE CONTAINMENT LAYOUT AT CHILLER PLANT ROOM (FOR REFERENCE ONLY)

02 NEW CABLE CONTAINMENT LAYOUT AT CHILLER PLANT ROOM

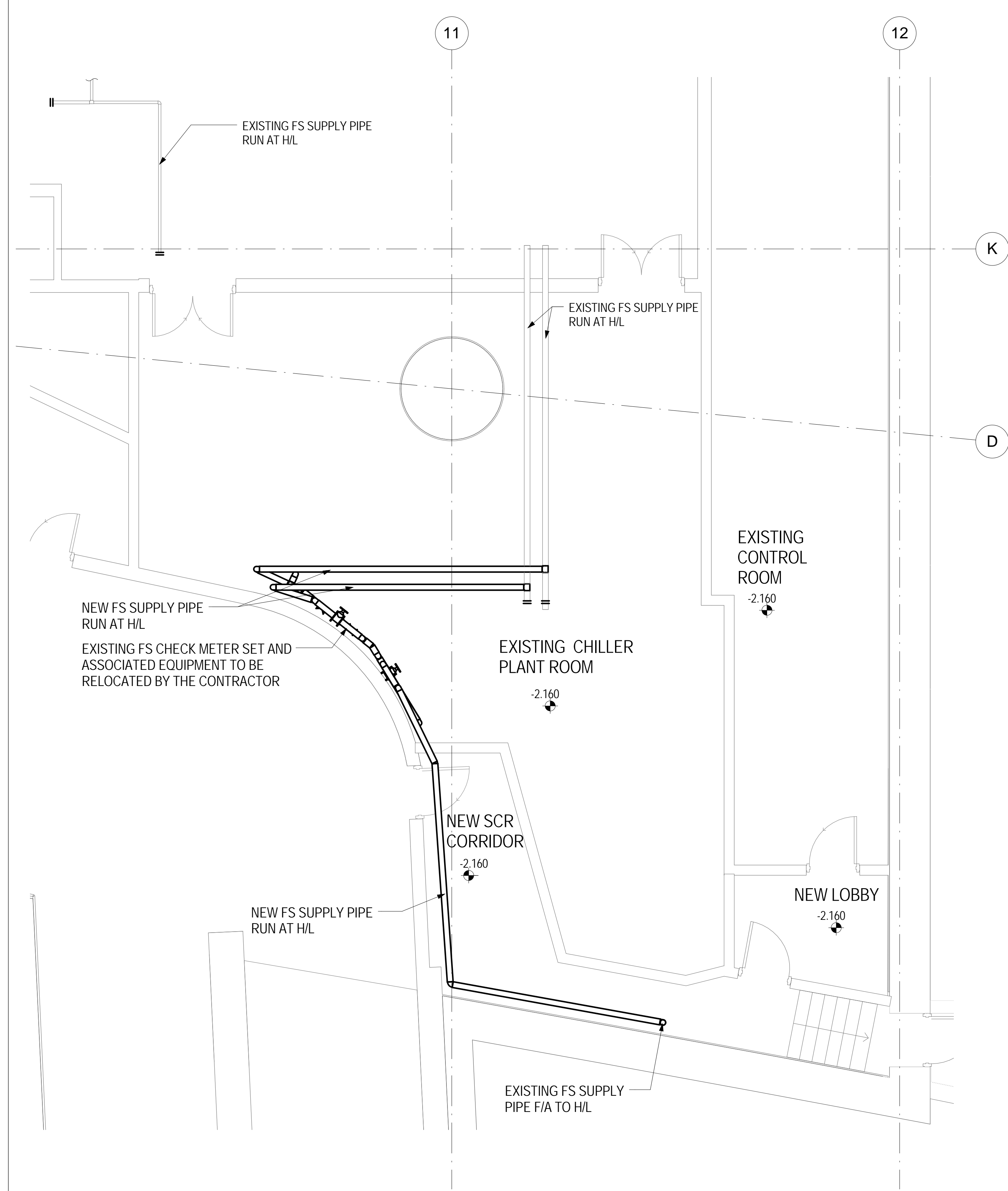
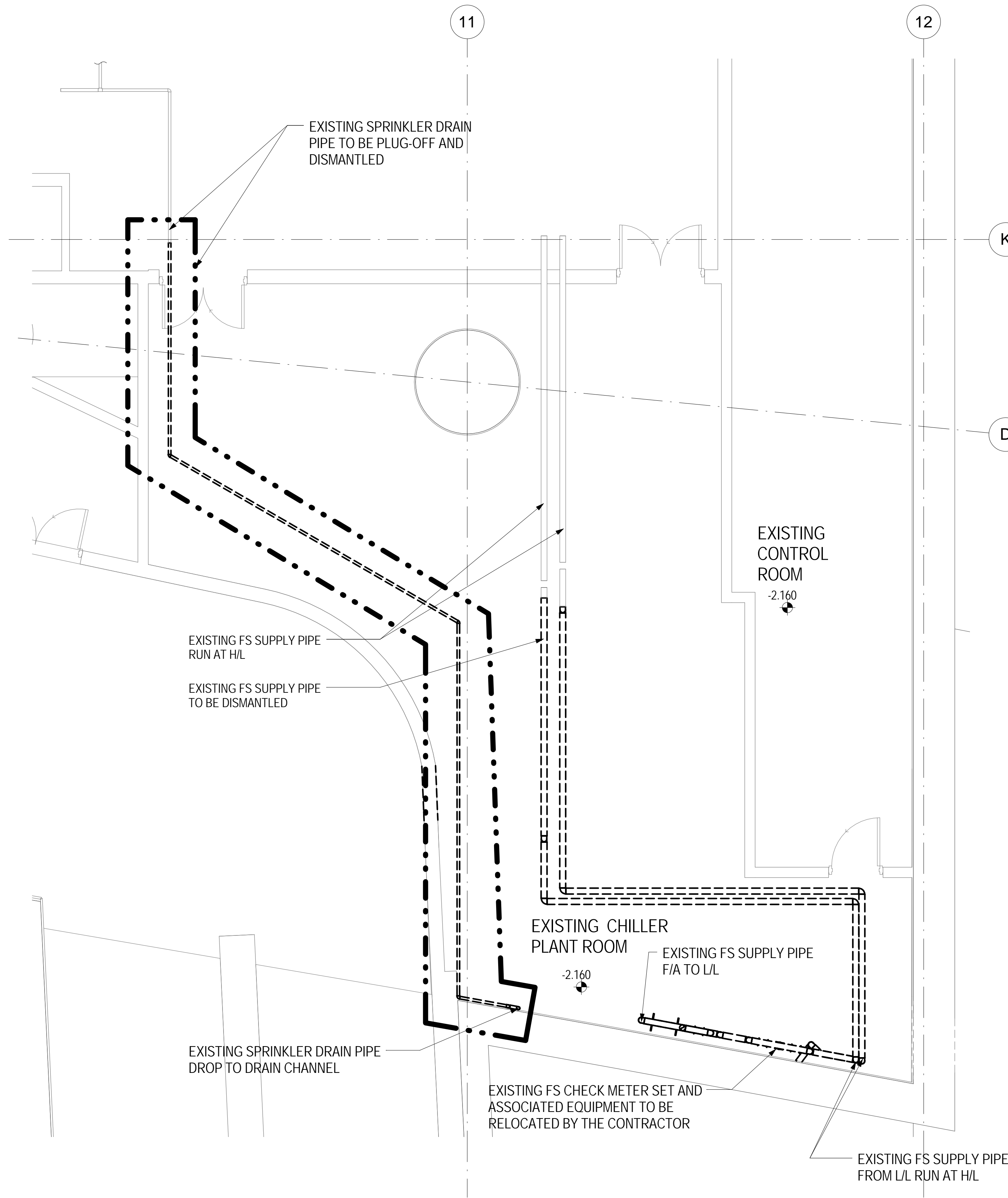


A	FIRST ISSUE		WC	DEC 2012	DF
	REV	DESCRIPTION	BY	DATE	APP

DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

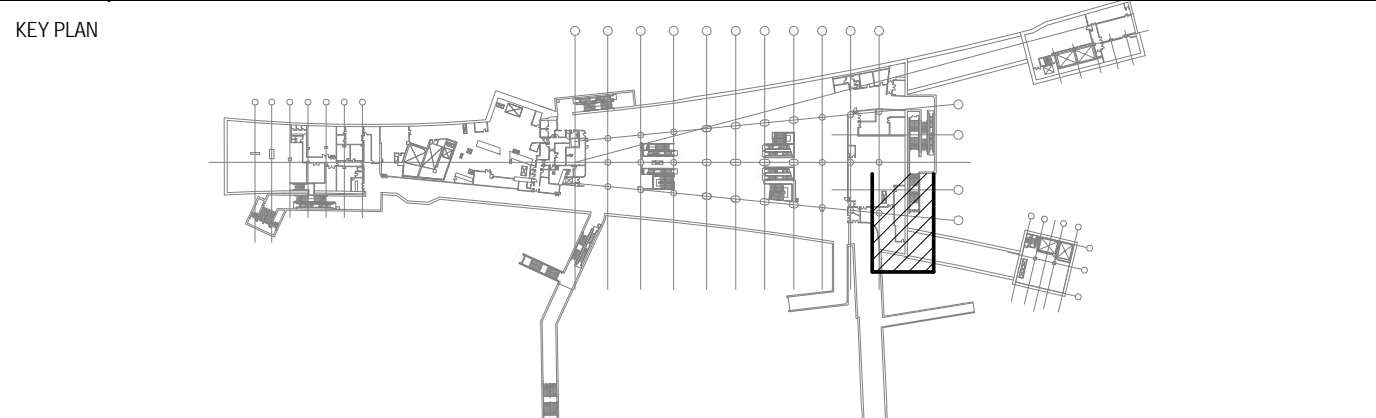
OPERATION DIVISION	
ORIGINATOR	
BIM REF.	

TITLE		
CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM EXISTING PLANT ROOM AND NEW SCR CORRIDOR DIVERSION OF LV CABLES & CABLE CONTAINMENT		
SCALE	FIGURE NO.	REV.
1 : 50 (A1)	E08/101	A



01 EXISTING FS LAYOUT AT CHILLER PLANT ROOM (FOR REFERENCE ONLY)

02 NEW FS LAYOUT AT CHILLER PLANT ROOM

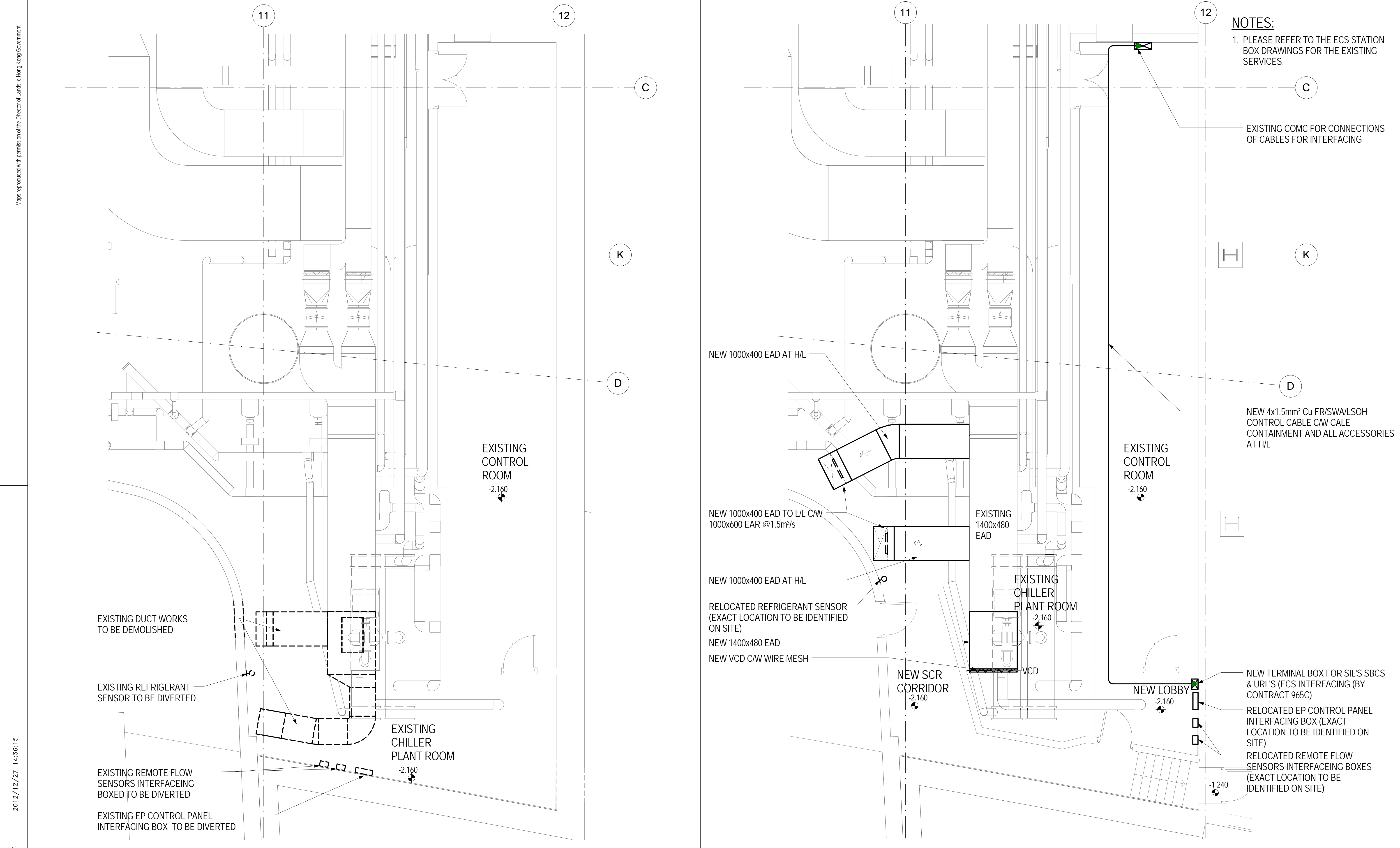


REV	DESCRIPTION	BY	DATE	APP
A	FIRST ISSUE	WC	DEC 2012	DF

DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. MTR CORPORATION LIMITED 2008 COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

OPERATION DIVISION	
BIM REF.	

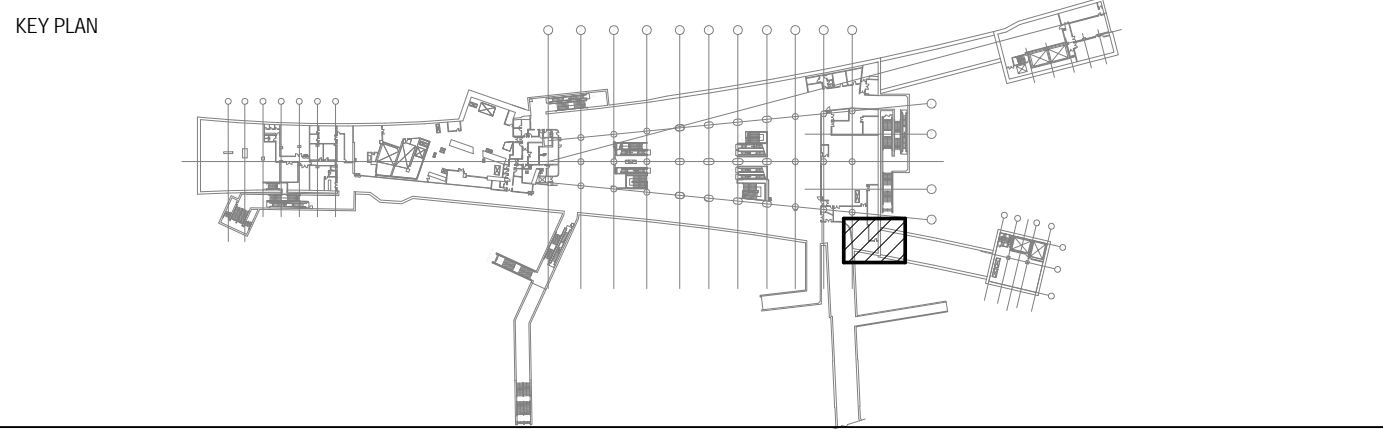
TITLE		REV.	
CS011.A-12E		A	
E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM			
EXISTING PLANT ROOM AND NEW SCR CORRIDOR			
EXISTING FS LAYOUT AND NEW FS LAYOUT			
SCALE	FIGURE NO.		
1 : 50 (A1)	F08/101		



NOTES:
1. PLEASE REFER TO THE ECS STATION BOX DRAWINGS FOR THE EXISTING SERVICES.

01 EXISTING ECS LAYOUT AT CHILLER PLANT ROOM (FOR REFERENCE ONLY)

02 NEW ECS LAYOUT AT CHILLER PLANT ROOM



REV	DESCRIPTION	BY	DATE	APP
A	FIRST ISSUE	WC	DEC 2012	DF

DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	DEC 2012
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. MTR CORPORATION LIMITED 2008 COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OR HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	

ORIGINATOR	
OPERATION DIVISION	
BIM REF.	

TITLE	
CS011.A-12E E&M SERVICES DIVERSION AND BUILDERS WORKS FOR PLATFORM WALL BREAKTHROUGH AT ADM CONCOURSE LEVEL - UP END (NEW SCR CORRIDOR) MODIFICATION OF ECS INSTALLATIONS	
SCALE	FIGURE NO.
1 : 50 (A1)	M09/101
REV.	A