

MECHANICAL SERVICES
DRAWINGS

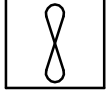
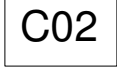
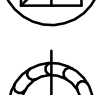
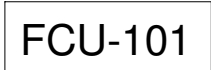
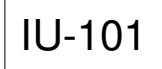
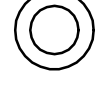
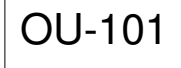
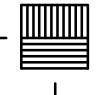
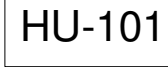
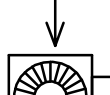
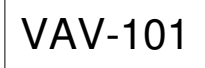
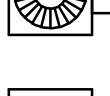
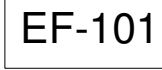
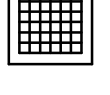
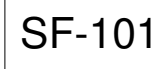
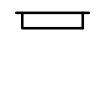
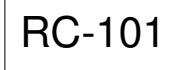
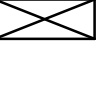
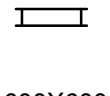
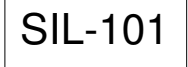
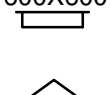
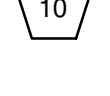
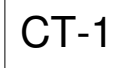
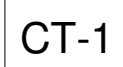
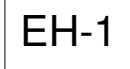
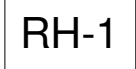
UNION GREEN APARTMENTS
39-47 UNION STREET
AUCKLAND CENTRAL

PROJECT No.215123

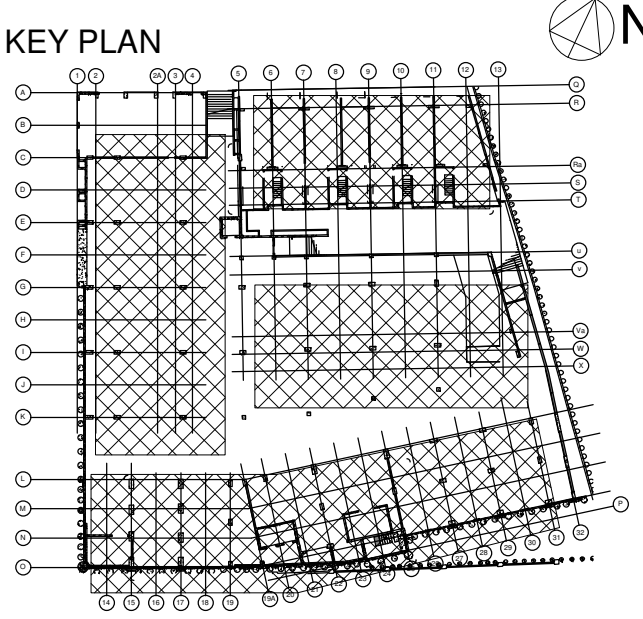
DRAWING INDEX			
SHEET NO.	SHEET TITLE	REVISION NO.	SHEET ISSUE DATE
M000	COVER PAGE	01	02/04/18
M001	LEGEND	01	02/04/18
M100	BASEMENT 02 HVAC PLAN OVERALL	01	02/04/18
M101	BASEMENT 02 HVAC LAYOUT BLOCK D PART-1	01	02/04/18
M110	BASEMENT 01 HVAC PLAN OVERALL	01	02/04/18
M111	BASEMENT 01 HVAC LAYOUT BLOCK B PART-1	01	02/04/18
M112	BASEMENT 01 HVAC SECTIONS BLOCK B PART-1	01	02/04/18
M113	BASEMENT 01 HVAC LAYOUT BLOCK D PART-2	01	02/04/18
M114	BASEMENT 01 BLOCK B PENETRATION LAYOUT & SECTION	01	02/04/18

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND		PROJECT TITLE	SHEET TITLE	DESIGNED	IAN		PROJECT	SHEET NO.		
01	FOR APPROVAL	IAN	RAZIN	02/04/18						DRAWN	RAZIN		215123	M000	
										CHECKED	TRUSHAL				
										DISCIPLINE				SCALE (A1 ORIGINAL)	REVISION
										MECHANICAL SERVICES				1 : 50	01

LEGEND OF SYMBOL

SF	-	SUPPLY FAN		FAN (DUCT CENTRIFUGAL)		FLOW SENSOR
TEF	-	TOILET EXHAUST FAN		FAN (DUCT AXIAL)		TEMPERATURE SENSOR
LEF	-	LOUVER EXHAUST FAN		FAN (ROOF DOWNFLOW)		CARBON DIOXIDE SENSOR
BOS	-	BOTTOM OF SLEEVE		FAN (ROOF UPFLOW)		CARBON MONOXIDE SENSOR
BOD	-	BOTTOM OF DUCT		ROTARY ROOF VENT		NITRIC OXIDE AND NITROGEN DIOXIDE SENSOR
FA	-	FROM ABOVE		CEILING GRILLE/DIFFUSER (SQUARE)		FAN COIL UNIT REFERENCE
FB	-	FROM BELOW		CEILING GRILLE/DIFFUSER (CIRCULAR)		VRF/SPLIT INDOOR UNIT REF
TA	-	TO ABOVE		CEILING DIFFUSER (DIRECTIONAL)		VRF/SPLIT OUTDOOR UNIT REF
TB	-	TO BELOW		CEILING SWIRL SUPPLY DIFFUSER		HYDRONIC UNIT REF
SA	-	SUPPLY AIR		CEILING RETURN/EXHAUST GRILLE		VAV BOX REF
RA	-	RETURN AIR		SIDEWALL GRILLE/DIFFUSER		EXTRACT FAN REF
OAS	-	OUTDOOR AIR SUPPLY		FLOOR GRILLE/DIFFUSER		SUPPLY FAN REF
SAE	-	SPILL AIR EXTRACT		DOOR/WALL TRANSFER DIFFUSER		ROOF COWL REF
TE	-	TOILET EXTRACT		EXTERNAL LOUVRE		AIR HANDLING UNIT REF
KEX	-	KITCHEN EXTRACT		OUTDOOR AIR VOLUME (l/s)		ATTENUATOR / SILENCER UNIT REF
KMS	-	KITCHEN MAKE-UP AIR SUPPLY		AIR INTAKE/OUTLET		PUMP REF
KTTEX	-	KITCHENETTE EXTRACT		GRILLE REFERENCE		CHILLER REF
DWEX	-	DISHWASHER EXTRACT		AIR VOLUME (l/s)		COOLING TOWER REF
FD	-	FIRE DAMPER				ELECTRIC HEATER REF
FSD	-	FIRE AND SMOKE DAMPER				RANGE HOOD REF
FC	-	FIRE COLLAR				
(55)	-	NOMINAL AIR VOLUME (l/s)				
SU	-	SET UP				
SD	-	SET DOWN				
AP	-	ACCESS PANEL AP4 = 450 X 450 AP6 = 600 X 600				
DAP	-	DUCT ACCESS PANEL				

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND		PROJECT TITLE	SHEET TITLE	DESIGNED	IAN		PROJECT	SHEET NO.	
01	FOR APPROVAL	IAN	RAZIN	02/04/18					LEGEND	DRAWN	RAZIN		215123	M001
										CHECKED	TRUSHAL			
										DISCIPLINE				
										MECHANICAL SERVICES			1 : 25	01



NOTE:-

1. MENTIONED BOTTOM OF SLEEVES ARE REFERENCE FROM SSL

GENERAL COORDINATION NOTE:

1. HVAC COORDINATION WITH OTHER MEP SERVICES WILL BE REVIEWED UPON THE RECEIVED RESPONSE OF CASE - 4

1 BASEMENT 02 HVAC PLAN OVERALL
M100 1 : 150

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND		PROJECT TITLE	SHEET TITLE	DESIGNED	IAN		PROJECT	SHEET NO.	
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										CHECKED	TRUSHAL			
										DISCIPLINE				
										MECHANICAL SERVICES			1 : 150	01



KEY PLAN

NOTE:

1.

MENTIONED BOTTOM OF SLEEVES ARE
REFERENCE FROM SSL

GENERAL COORDINATION NOTE:

1.

HVAC COORDINATION WITH OTHER MEP
SERVICES WILL BE REVIEWED UPON THE
RECEIVED RESPONSE OF CASE - 4

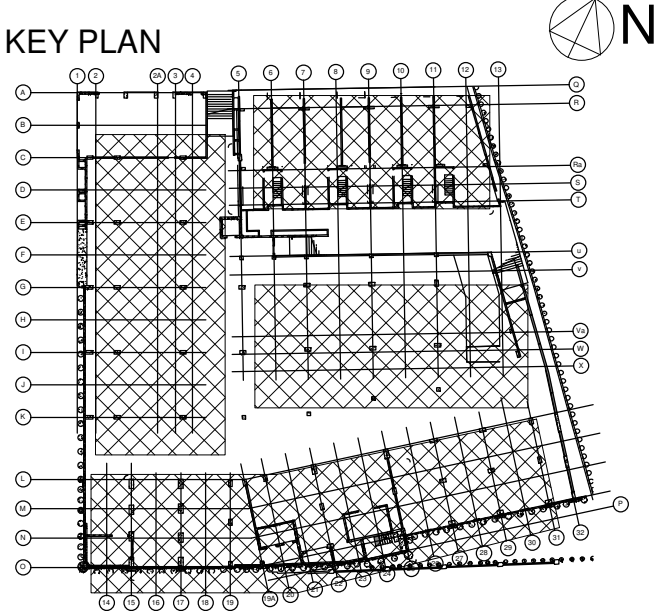
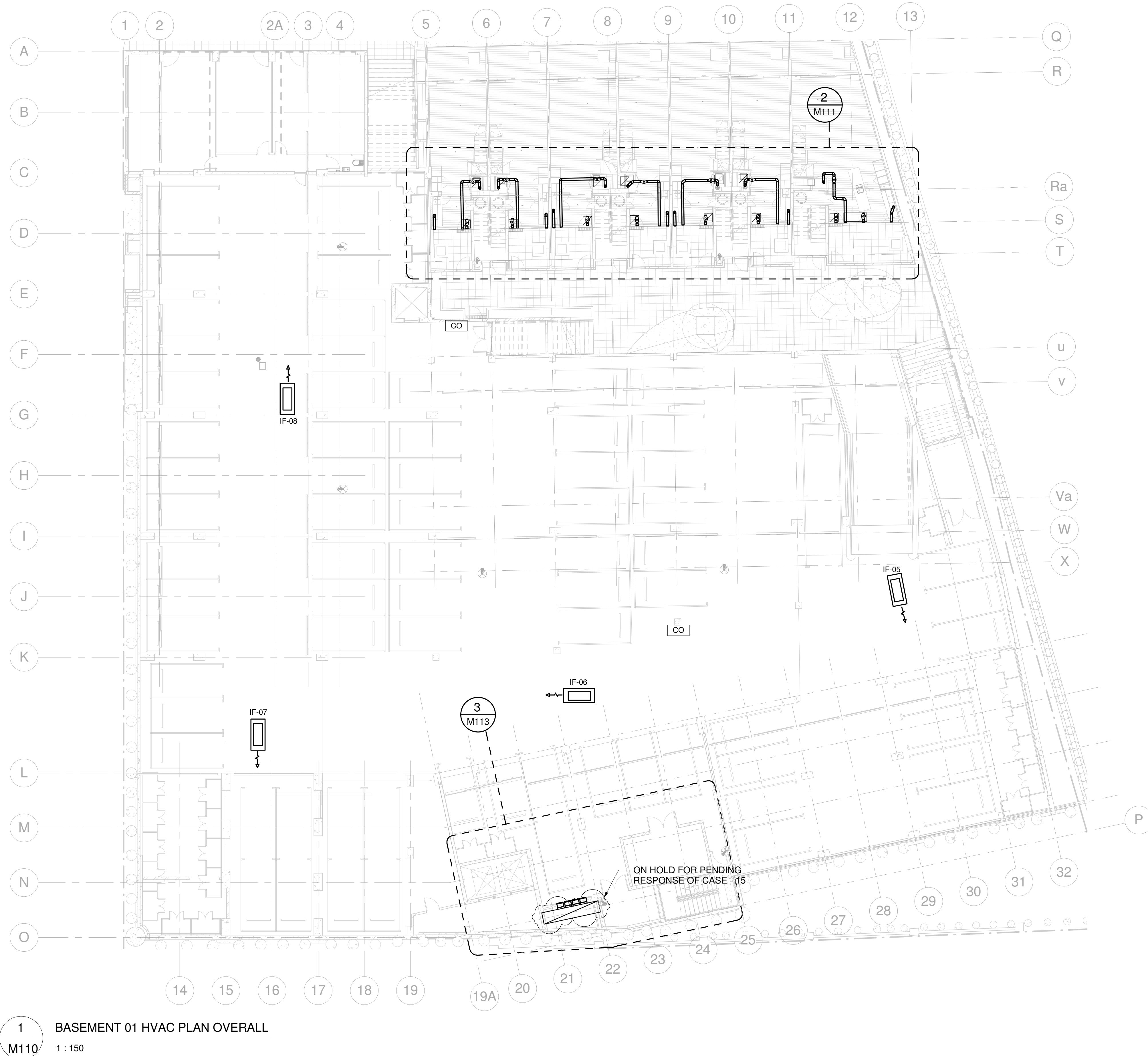
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BASEMENT 02 HVAC LAYOUT BLOCK D PART - 1

M101

1 : 50

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND		PROJECT TITLE	SHEET TITLE	DESIGNED	IAN		PROJECT	SHEET NO.	
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										DISCIPLINE			SCALE (A1 ORIGINAL)	REVISION
										MECHANICAL SERVICES			1 : 50	01



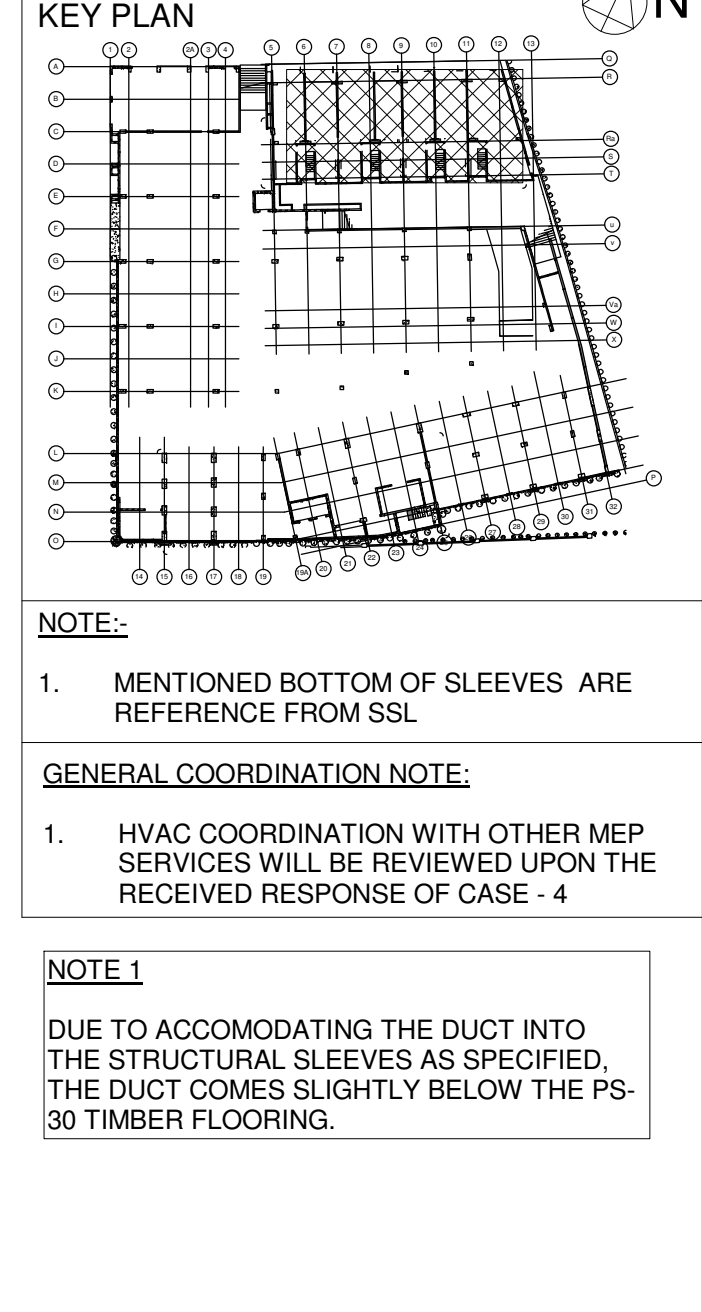
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1. MENTIONED BOTTOM OF SLEEVES ARE
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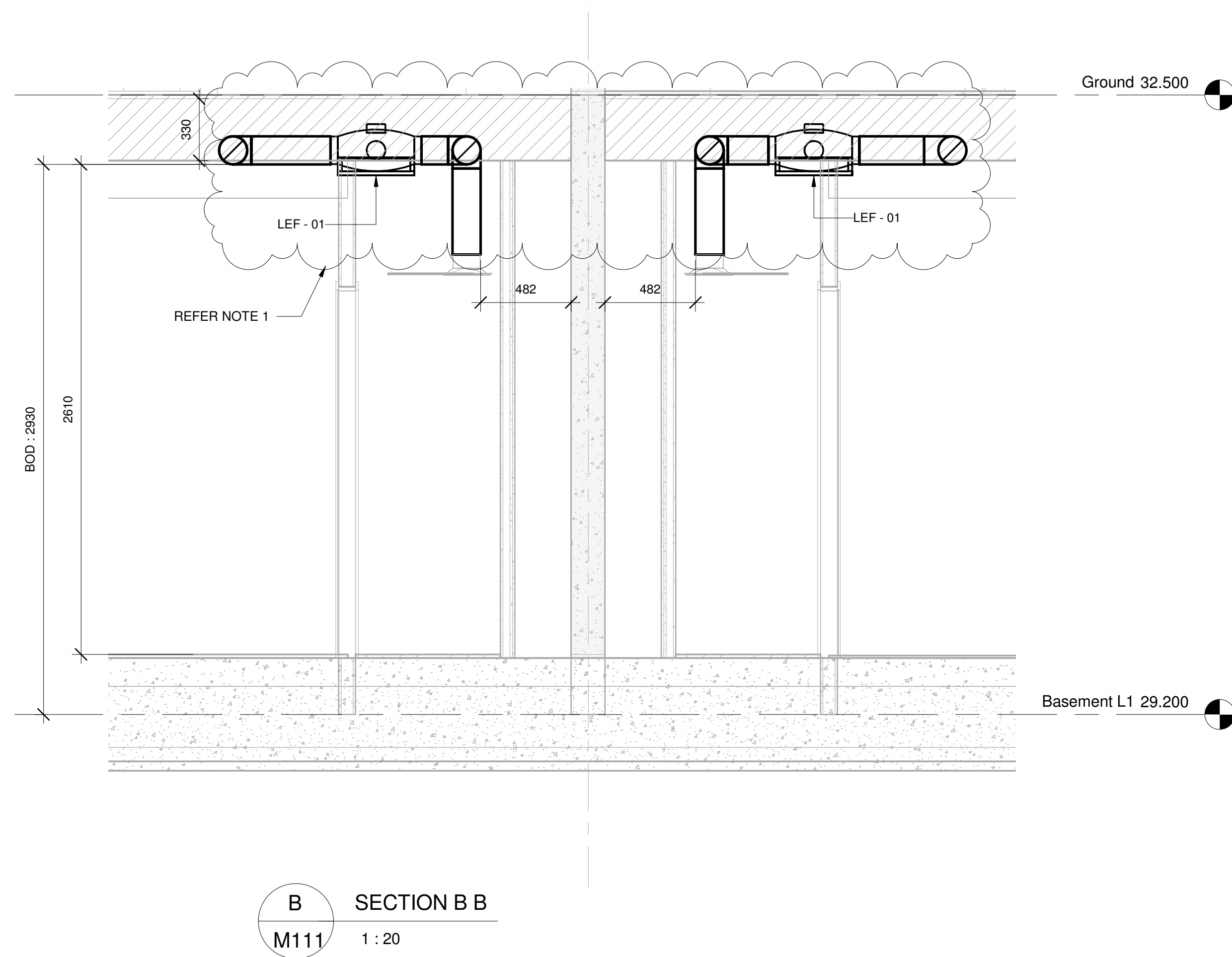
GENERAL COORDINATION NOTE:

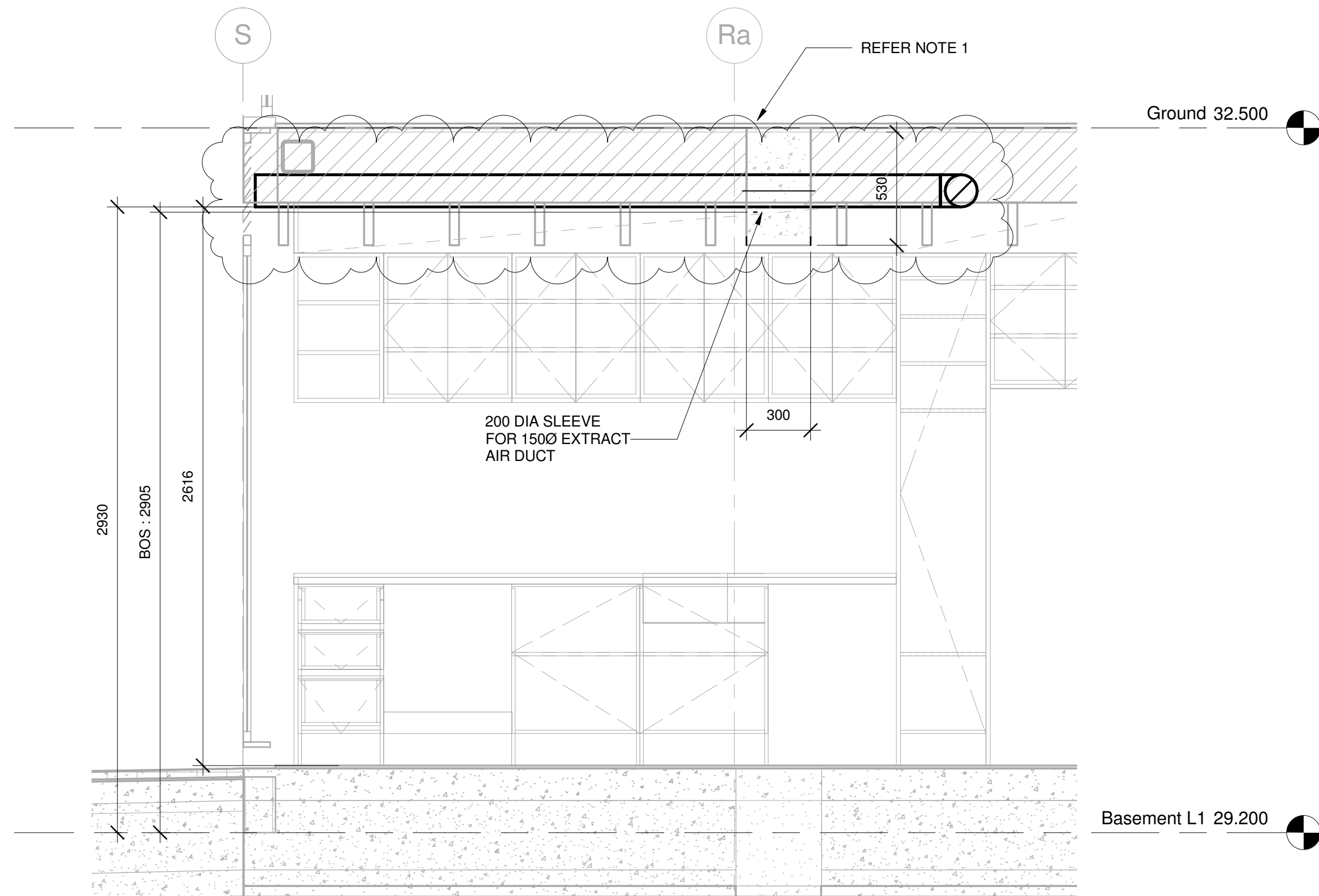
1. HVAC COORDINATION WITH OTHER MEP SERVICES WILL BE REVIEWED UPON THE RECEIVED RESPONSE OF CASE - 4

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND			PROJECT TITLE	SHEET TITLE	DESIGNED	IAN		PROJECT	SHEET NO.		
01	FOR APPROVAL	IAN	RAZIN	02/04/18								DRAWN	RAZIN		215123	M110
												CHECKED	TRUSHAL			
												DISCIPLINE			SCALE (A1 ORIGINAL)	REVISION
												MECHANICAL SERVICES			1 : 150	01

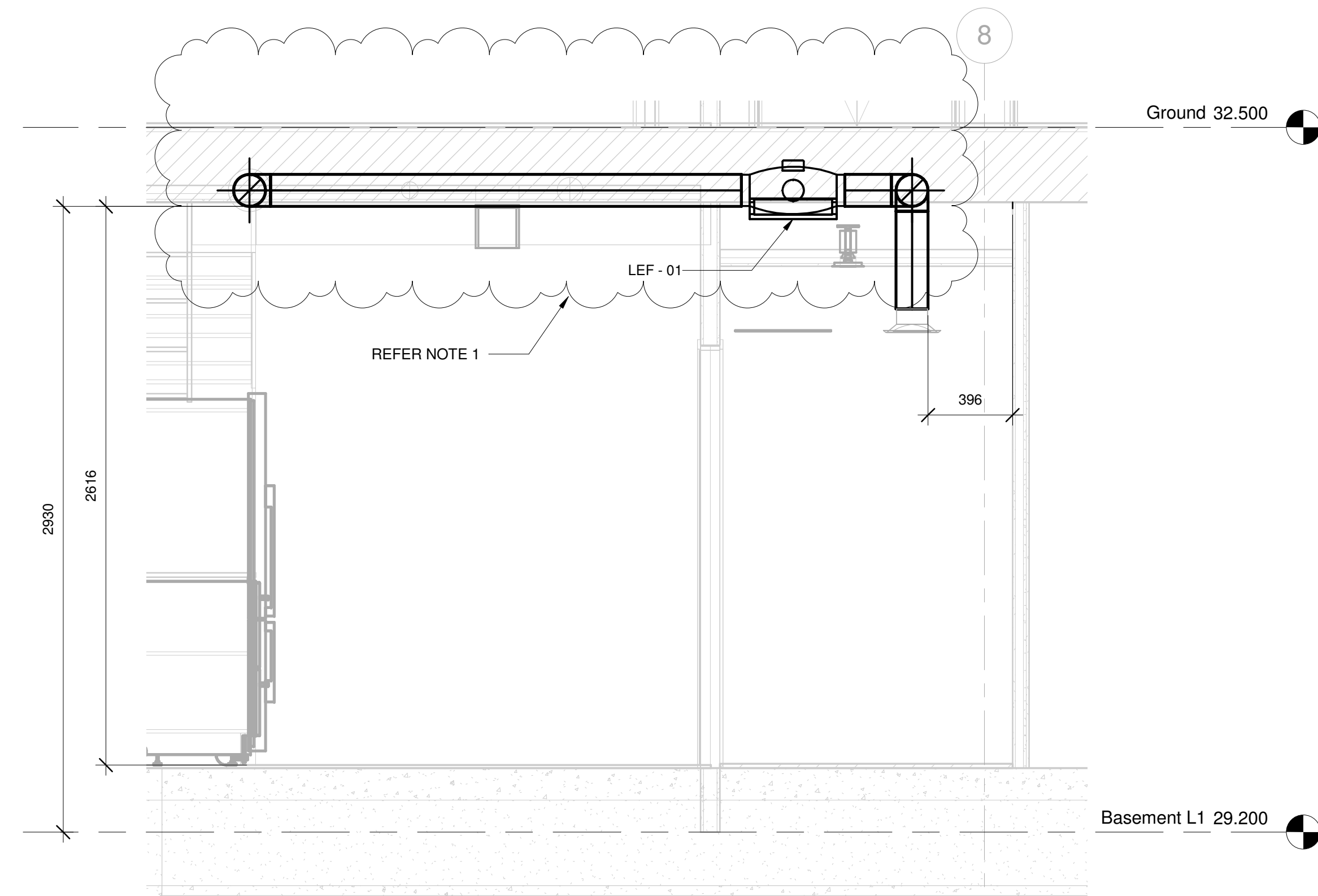


ON HOLD FOR PENDING
RESPONSE OF CASE 1,2,3 & 4.

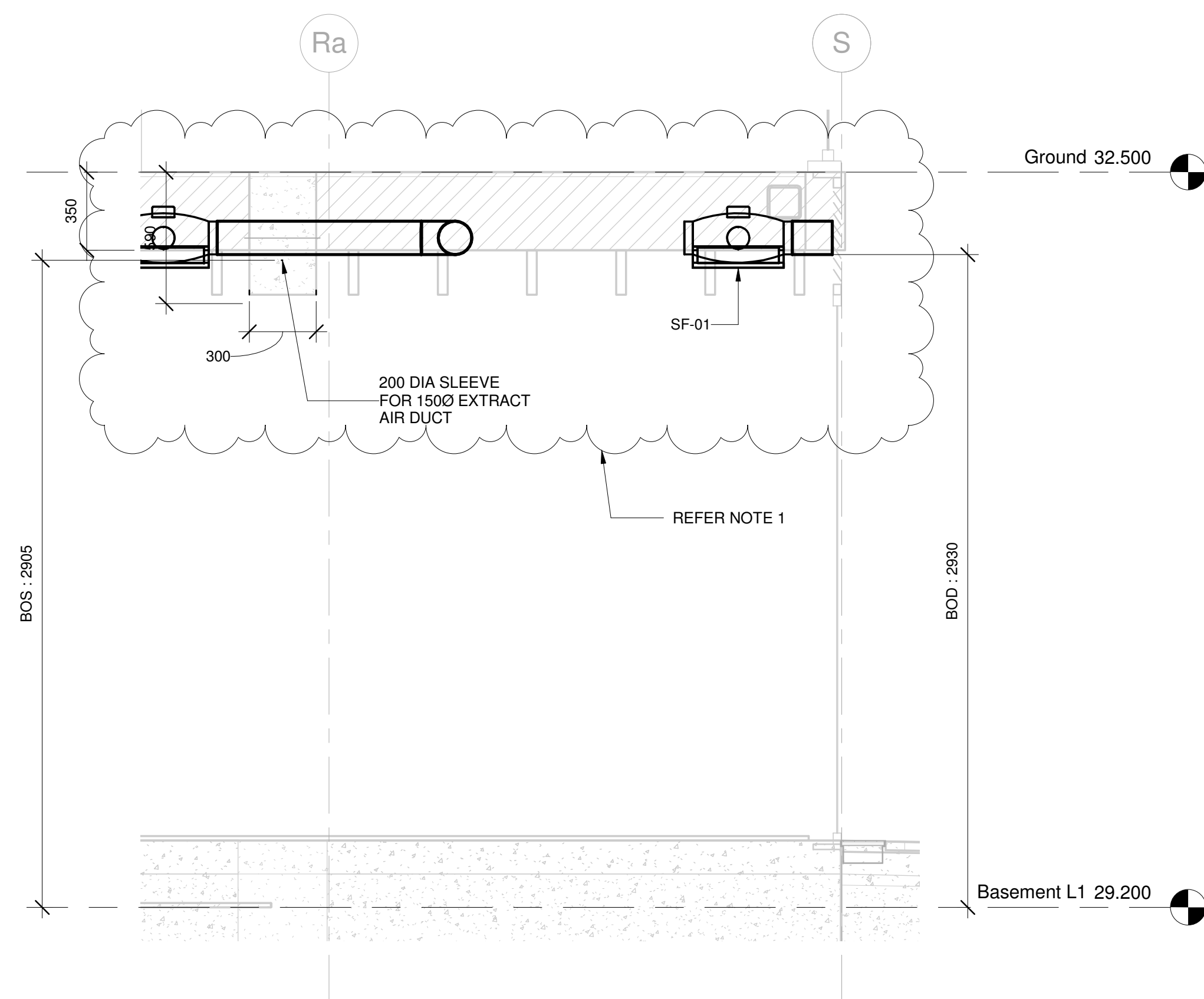
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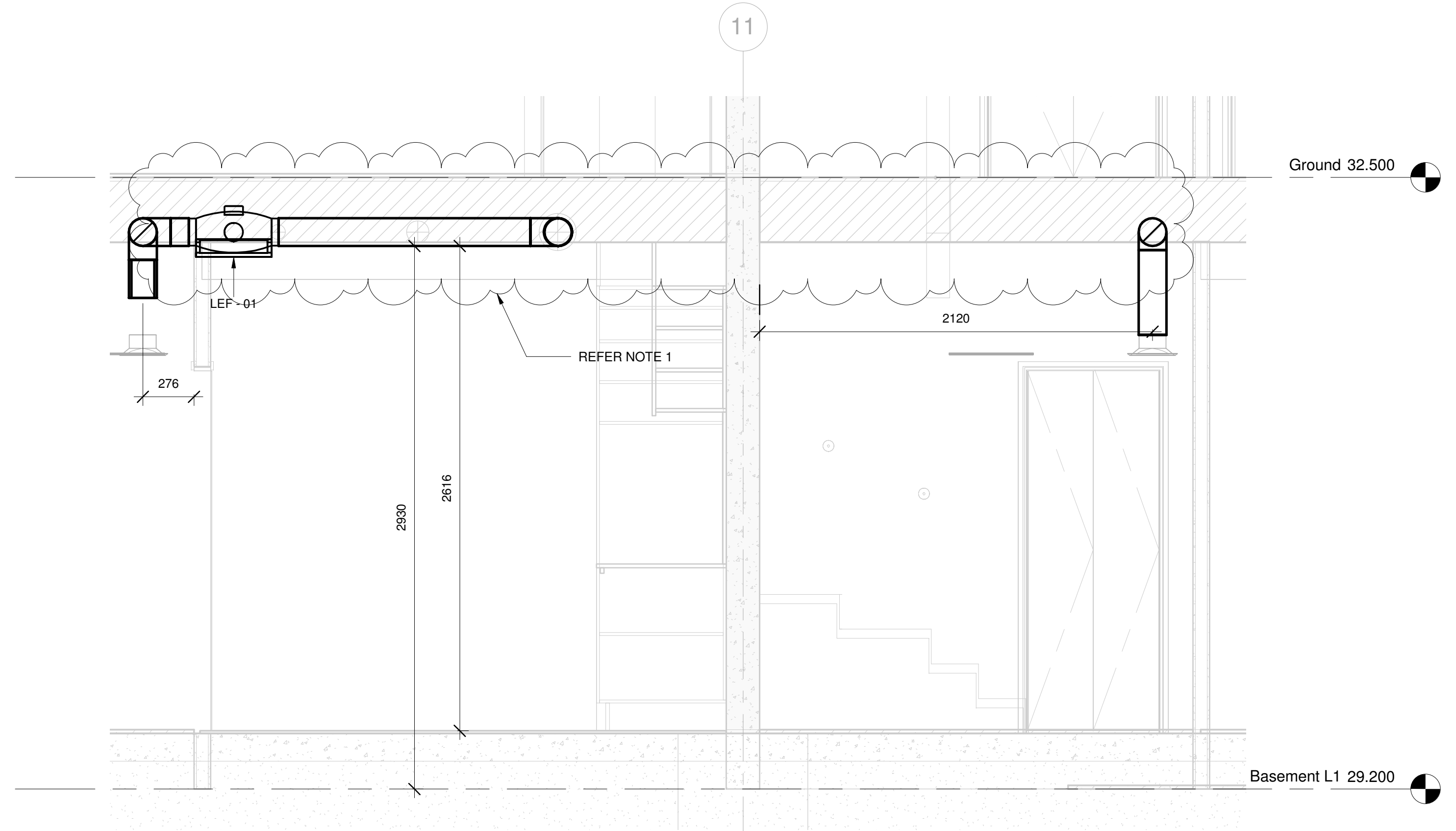
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M112 1 : 20



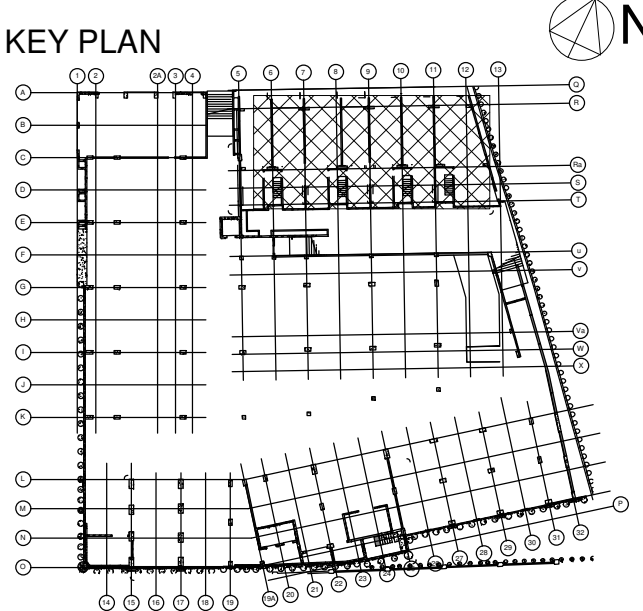
D SECTION D D
M112 1:20



E SECTION E E
M112 1 : 20



F SECTION F F
M112 1 : 20



NOTE:-

1. MENTIONED BOTTOM OF SLEEVES ARE
REFERENCE FROM SSL

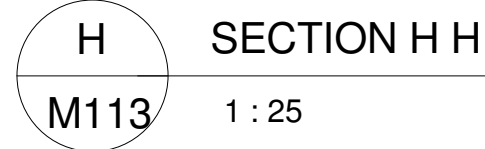
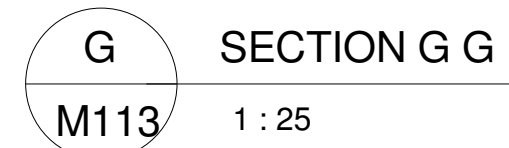
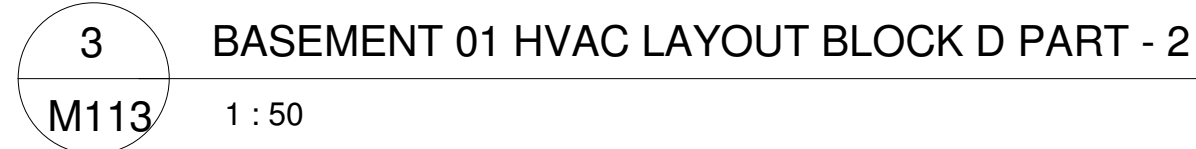
GENERAL COORDINATION NOTE:

1. HVAC COORDINATION WITH OTHER MEP SERVICES WILL BE REVIEWED UPON THE RECEIVED RESPONSE OF CASE - 4

NOTE 1

DUE TO ACCOMODATING THE DUCT INTO THE STRUCTURAL SLEEVES AS SPECIFIED, THE DUCT COMES SLIGHTLY BELOW THE PS-30 TIMBER FLOORING.

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND			PROJECT TITLE	SHEET TITLE	DESIGNED	IAN		PROJECT	SHEET NO.			
01	FOR APPROVAL	IAN	RAZIN	02/04/18									DRAWN	RAZIN		215123	M112
													CHECKED	TRUSHAL			
													DISCIPLINE			SCALE (A1 ORIGINAL)	REVISION
													MECHANICAL SERVICES			As indicated	01



1. MENTIONED BOTTOM OF SLEEVES ARE
REFERENCE FROM SSL

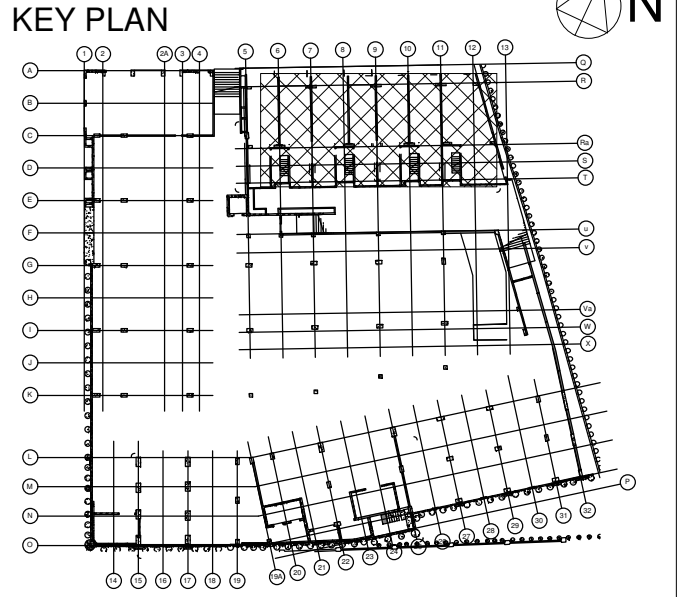
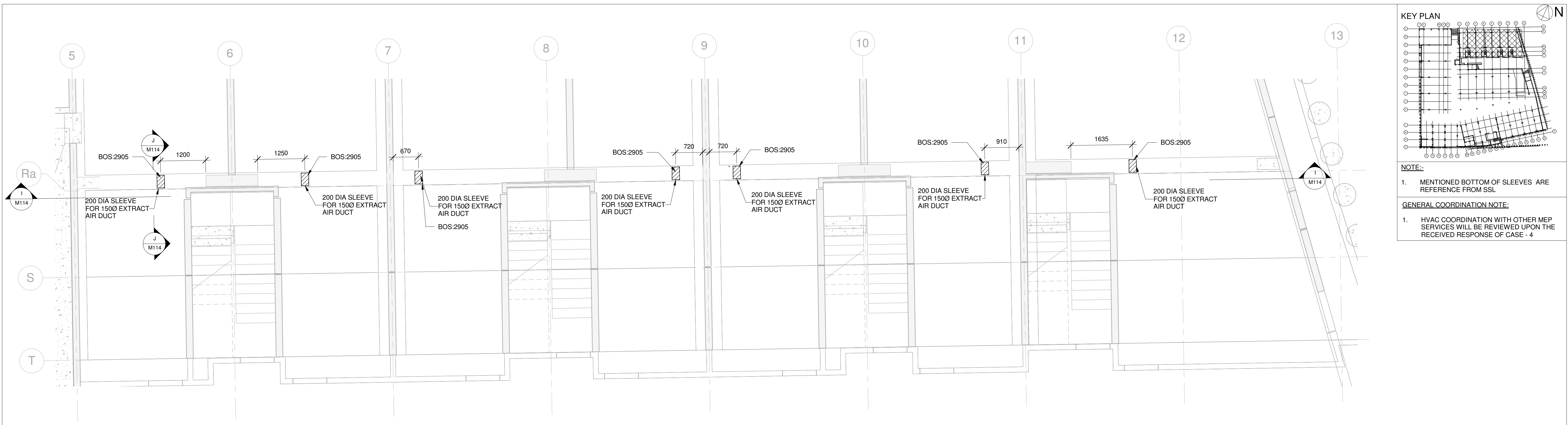
GENERAL COORDINATION NOTE:

1. HVAC COORDINATION WITH OTHER MEP SERVICES WILL BE REVIEWED UPON THE RECEIVED RESPONSE OF CASE - 4

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND
01	FOR APPROVAL	IAN	RAZIN	02/04/18	

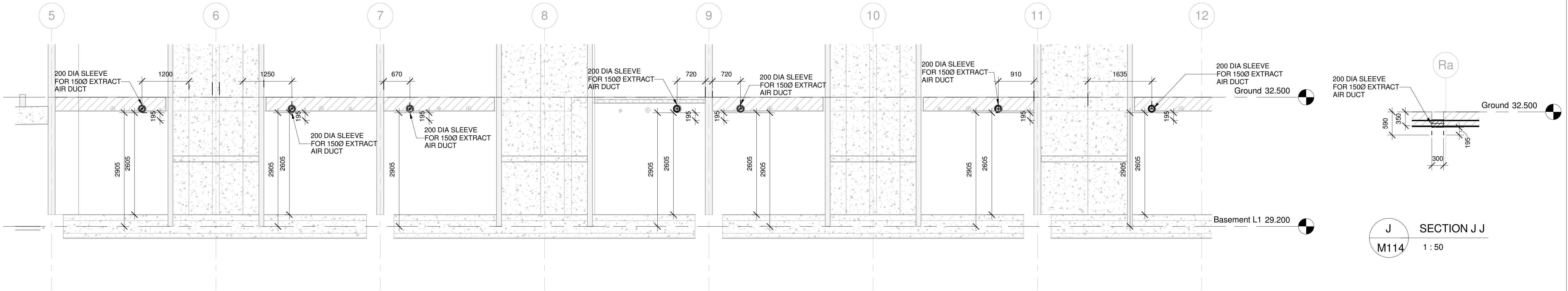
PROJECT TITLE					
SHEET TITLE					
DESIGNED	IAN				
DRAWN	RAZIN				
CHECKED	TRUSHAL				
DISCIPLINE			SCALE (A1 ORIGINAL)		
MECHANICAL SERVICES			As indicated		

PROJECT	SHEET NO.
215123	M113
REVISION	
01	



- NOTE:-
- MENTIONED BOTTOM OF SLEEVES ARE REFERENCE FROM SSL
- GENERAL COORDINATION NOTE:
- HVAC COORDINATION WITH OTHER MEP SERVICES WILL BE REVIEWED UPON THE RECEIVED RESPONSE OF CASE - 4

4 BASEMENT 01 BLOCK B PENETRATION LAYOUT
M114 1 : 50



J SECTION J J
M114 1 : 50

I SECTION I I
M114 1 : 50

REV	AMENDMENTS	ENG.	CAD	DATE	LEGEND		PROJECT TITLE	SHEET TITLE	DESIGNED	IAN		PROJECT	SHEET NO.	
01	FOR APPROVAL	IAN	RAZIN	02/04/18						DRAWN	RAZIN		215123	M114
										CHECKED	TRUSHAL			
										DISCIPLINE			SCALE (A1 ORIGINAL)	REVISION
										MECHANICAL SERVICES			1 : 50	01