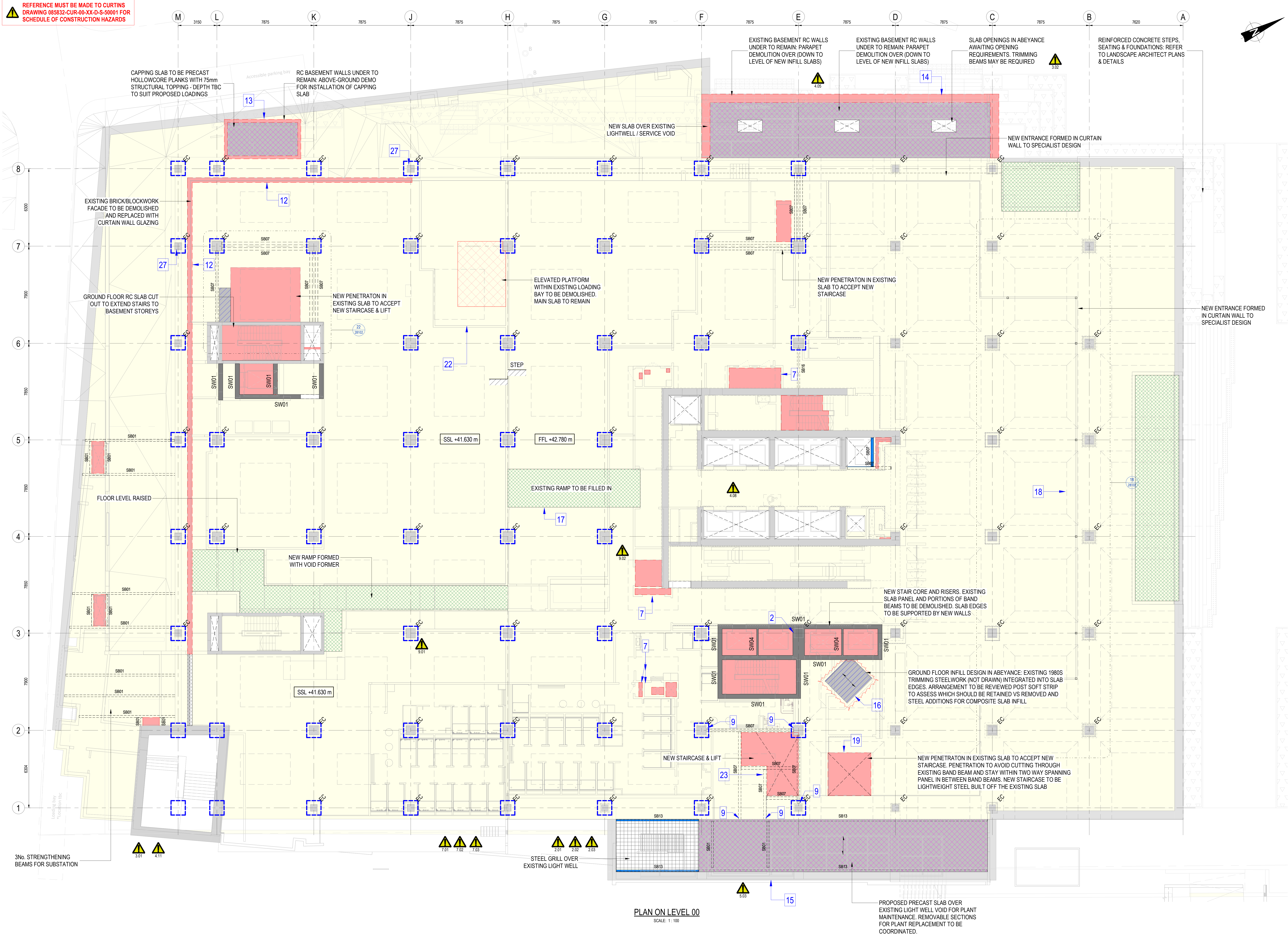
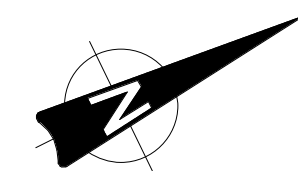




Drawn By GP	Designed By KG	Checked By MA
	Date MAR '25	Scale @ A0 As indicated
Project No - Originator - Function - Scope - Form - Discipline - Number		Revision:



HATCHED AREA DENOTES FLAT SOFFIT
APPARENT ON SITE. RECESSES IN SOFT
SPOT LOCATIONS MAY NOT BE PRESENT

REDUNDANT DOORWAY IN
FORMER STAIRWELL WALL TO
BE INFILLED (RC INFILL)

PODIUM RC STRUCTURE

PLAN ON LEVEL 01
SCALE: 1:100

GENERAL NOTES:

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- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE COLUMNS ARE EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK AND BUILDERS WORK PENETRATIONS THROUGH SLAB. FINAL SIZES AND SETTING OUT TBC BY THE IWE ENGINEER AND ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK TO SUPPORT RISER INFILL FLOOR SECTIONS

ALL CONNECTIONS, INCLUDING SPLICES, BASEPLATES AND HD BOLTS, SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR FROM THE LOADS, MOMENTS AND SHEARS SUPPLIED BY THE ENGINEER

PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE - CONTRACTORS PREFERRED CONSTRUCTION MAY IMPACT STEELWORK ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE

REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

STRUCTURAL RC COLUMN SCHEDULE

REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/60	250 kg/m ²

KEY

- EXISTING RC SLAB
- EXISTING RC WALLS AND COLUMNS
- DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
- PROPOSED PRECAST SLAB
- PROPOSED COMPOSITE METAL DECKING
- PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER
- NEW MASONRY WALL
- NEW CONCRETE INFILL
- EXISTING COLUMN
- DENOTES EXISTING COLUMNS TO BE STRENGTHENED USING APPROPRIATE STRENGTHENING SOLUTION. TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 28 FOR THE CURRENT STRENGTHENING PROPOSALS, CARBON FIBRE, CONCRETE JACKETING AND STEEL SECTIONS
- DENOTES AREAS WITH RESTRICTED ACCESS. ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED
- DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

WORK IN PROGRESS (COSTING)
THE INFORMATION ON THIS DRAWING IS AN OPTIMISED COST SOLUTION BASED UPON EXTERNAL INFORMATION AS OF 03.03.2025. IT MAY BE SUBJECT TO CHANGE BASED UPON EXTERNAL INFLUENCES THROUGH DESIGN DEVELOPMENT SUCH AS CLIENT BRIEF & SCOPE CHANGES, SERVICES / BVM, SUB-CONTRACTOR REQUIREMENTS ETC. THE INFORMATION MUST THEREFORE BE USED WITH A SUITABLE CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING, COST MANAGEMENT, N/A MEASUREMENT ETC.

PROJ	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:

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STAGE 2

Project
PROJECT SAM

Org Title:

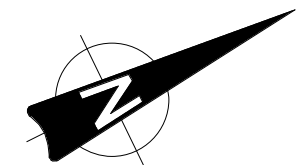
**LEVEL 01
GENERAL ARRANGEMENT**

Drawn By	Designed By	Checked By
GP	KG	MA

Date	Scale @ A3
MAR 25	As Indicated

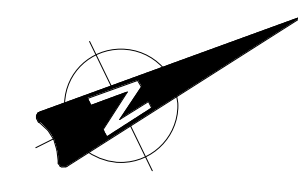
Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision:
085832 - CUR - 00 - 01 - D - S - 20101	P02

085832-CUR-00-22-AS-S-0010



PLAN ON LEVEL 02
SCALE: 1 : 100

Revision: P02



GENERAL NOTES:

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- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE COLUMNS ARE EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK AND BUILDERS WORK PENETRATIONS THROUGH SLAB. FINAL SIZES AND SETTING OUT TBC BY THE IWE ENGINEER AND ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK TO SUPPORT RISER INFILL FLOOR SECTIONS

ALL CONNECTIONS, INCLUDING SPLICES, BASEPLATES AND HD BOLTS, SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR FROM THE LOADS, MOMENTS AND SHEARS SUPPLIED BY THE ENGINEER.

PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE - CONTRACTORS PREFERRED CONSTRUCTION MAY IMPACT STEELWORK ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

STRUCTURAL RC COLUMN SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/60	250 kg/m ²

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x54	S355
SB03	UB356x171x67	S355
SB04	UB457x152x60	S355
SB05	UB457x191x82	S355
SB06	UB533x210x62	S355
SB07	UB533x210x122	S355
SB08	UB610x229x101	S355
SB09	UC325x325x118	S355
SB10	SHS150x150x12.5	S355
SB11	PF-C430x100x64	S355
SB12	PF-C320x100x45	S355
SB13	L150x150x12	S355
SB14	UB203x133x30	S355
SB15	UC254x254x73	S355
SB16	UC203x203x60	S355

- KEY**
- EXISTING RC SLAB
 - EXISTING RC WALLS AND COLUMNS
 - DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
 - PROPOSED PRECAST SLAB
 - PROPOSED COMPOSITE METAL DECKING
 - PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER
 - NEW MASONRY WALL
 - NEW CONCRETE INFILL
 - EXISTING COLUMN
 - DENOTES EXISTING COLUMNS TO BE STRENGTHENED USING APPROPRIATE STRENGTHENING SOLUTION. TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 28 FOR THE CURRENT STRENGTHENING PROPOSALS. CARBON FIBRE, CONCRETE JACKETING AND STEEL SECTIONS
 - DENOTES AREAS WITH RESTRICTED ACCESS. ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED
 - DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE PRIMARY FRAME, NOT INCLUDING CONNECTIONS

PROJ	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:



STAGE 2

PROJECT SAM

LEVEL 03
GENERAL ARRANGEMENT

Drawn By: GP, Designed By: KG, Checked By: MA

Date: MAR 25, Scale @ A3: As Indicated

Project No - Originator - Function - Spatial - Form - Discipline - Number: 085832 - CUR - 00 - 03 - D - S - 20103

Revision: P02

HATCHED AREA DENOTES FLAT SOFFIT
APPARENT ON SITE. RECESSES IN SOFT
SPOT LOCATIONS MAY NOT BE PRESENT

SSL +55.479 m

NEW HOLE IN EXISTING SLAB TO BE COORDINATED
WITH THE EXISTING PRECAST & STEEL BEAMS.
SLOT TO BE WITHIN SOFT SPOT ONLY

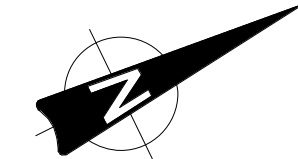
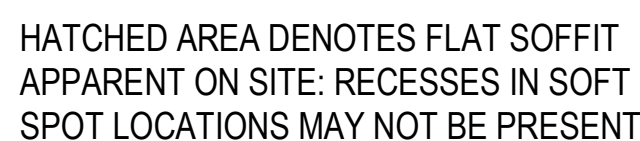
UPPER SLAB INFILL DESIGN IN ABEYANCE. EXISTING 1980's
TRIMMING STEELWORK (NOT DRAWN) INTEGRATED INTO RC
SLAB EDGES. ARRANGEMENT TO BE REVIEWED POST SOFT
STRIP TO ASSESS WHICH SHOULD BE TO BE RETAINED VS
REMOVED AND STEEL ADDITIONS FOR COMPOSITE SLAB INFILL.

REFER TO DRAWING 085832-CUR-00-09-D-S-20109
FOR SUPPLEMENTARY STEEL STUBS FOR
FACADE REPLACEMENT

PLAN ON LEVEL 03
SCALE: 1:100

PODIUM RC STRUCTURE

REDUNDANT DOORWAY IN
FORMER STAIRWELL WALL TO
BE INFILLED (RC INFILL)



- | GENERAL NOTES: | |
|----------------|--|
| 1. | THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS. |
| 2. | DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE. |
| 3. | ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. |
| 4. | FOR GENERAL NOTES REFER TO DRAWING. |

KEY		
		DENOTES RIGID MOMENT RESISTING CONNECTION
		DENOTES SPAN OF 150mm THICK SMD T860 DECKING, 1.0mm GAUGE WITH A303 WELD THROUGHOUT
	CM (X)	DENOTES COLUMN BELOW
	CM (Y)	DENOTES COLUMN ABOVE
	EC	DENOTES EXISTING COLUMN
		DENOTES EXISTING RC SLAB
		DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
		DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

ALL STEEL BEAMS SUPPORTING COMPOSITE DECKING TO BE DESIGNED COMPOSITELY UNLESS OTHERWISE STATED. ALLOWANCE TO BE MADE FOR 2 ROWS OF 19mm Ø x 100mm SHEAR STUDS AT 150mm CENTRES, WITH B12 TRANSVERSE REBAR AT EACH STUD LOCATION

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL AND CONCRETE ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

ALLOWANCE SHOULD BE MADE FOR STEEL END PLATES TO BE CAST INTO CORE WALLS AT CONNECTIONS TO STEEL BEAMS

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO
CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE
CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE
PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEEWORK

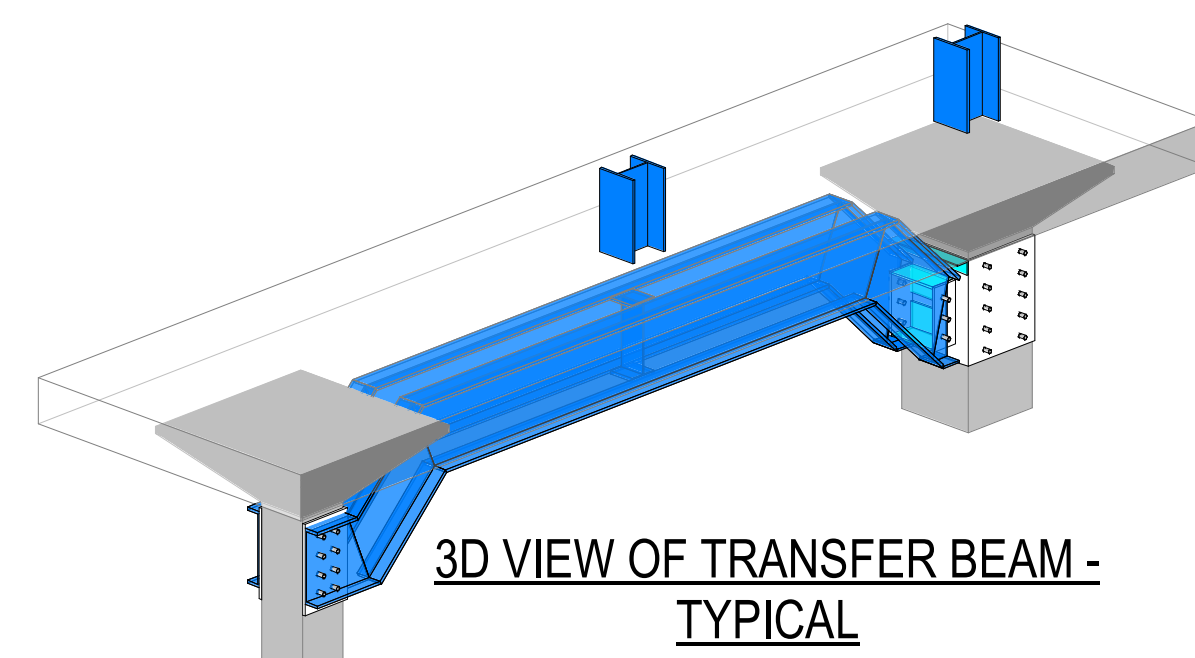
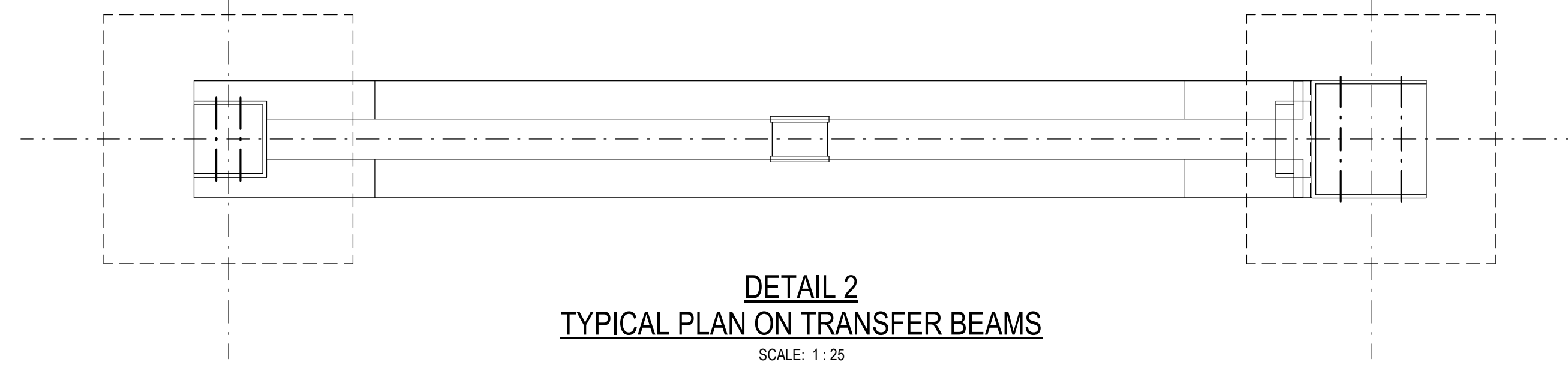
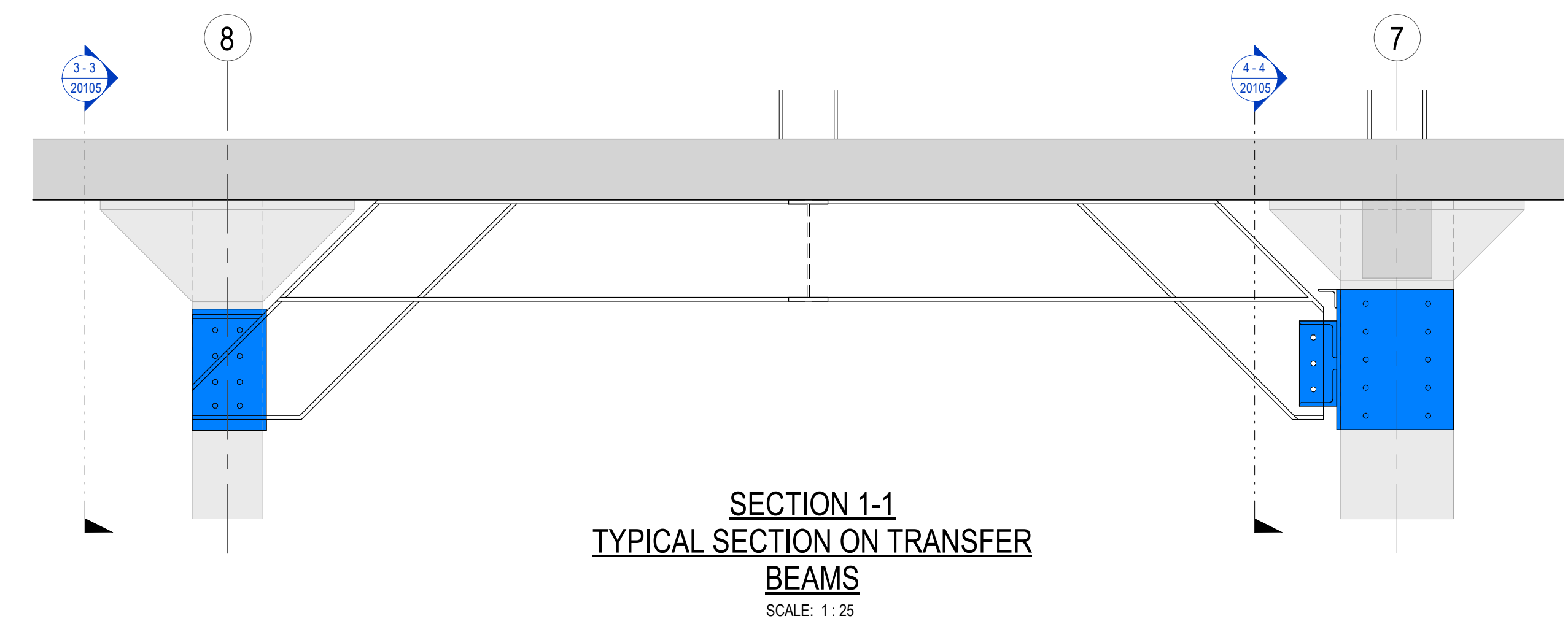
FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC254x254x73	S355
SC03	UC254x254x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x8.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
S801	UB305x165x40	S355
S802	UB305x165x40	S355
S803	UB305x171x57	S355
S804	UB457x152x60	S355
S805	UB457x191x82	S355
S806	UB532x106x92	S355
S807	UB532x101x92	S355
S808	UC305x220x107	S355
S809	UC305x305x118	S355
S810	SF615x150x152x12.5	S355
S811	PF430x100x64	S355
S812	PF430x100x64	S355
S813	150x150x102	S355
S814	UB203x130x30	S355
S815	UC204x240x73	S355
S816	UC203x230x60	S355

PLATE GRIDER SCHEDULE							
REF	SIZE	STRUCTURAL MATERIAL	CELL Ø (mm)	CELL PITCH (mm)	FLANGE THICKNESS (mm)	WEB THICKNESS (mm)	COMMENTS
PG01	PB 470x275/50x288.5	S355	175	750	50	25	NON-COMPOSITE



P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Checked:

Curtins

Manchester Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG
0161 236 2394
manchester@curfins.com
www.curfins.com

STAGE 2

Project	
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PROJECT SAM

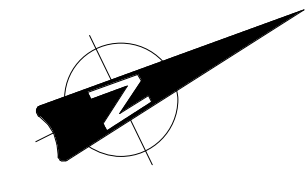
Org Title:

LEVEL 05
GENERAL ARRANGEMENT

Drawn By GP	Designed By KG	Checked By MA
	Date	Scales @ A0

	MAR '25	As indicated
Project No - Originator - Function - Special - Form - Discipline - Number	Revision:	

[illegible]



GENERAL NOTES:

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- FOR GENERAL NOTES REFER TO DRAWING.

KEY	
	DENOTES RIGID MOMENT RESISTING CONNECTION
	DENOTES SPAN OF 150mm THICK SMD TR60 DECKING, 1.0mm GAUGE WITH A393 MESH THROUGHOUT
	DENOTES COLUMN BELOW
	DENOTES COLUMN ABOVE
	DENOTES EXISTING COLUMN
	DENOTES EXISTING RC SLAB
	DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
	DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

ALL STEEL BEAMS SUPPORTING COMPOSITE DECKING TO BE DESIGNED COMPOSITELY UNLESS OTHERWISE STATED. ALLOWANCE TO BE MADE FOR 2 ROWS OF 19mm Ø x 100mm SHEAR STUDS AT 150mm CENTRES, WITH B12 TRANSVERSE REBAR AT EACH STUD LOCATION

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CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEELWORK

FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC30/40	200 kg/m²
SW02	250mm THICK RC	RC30/40	200 kg/m²
SW03	950mm THICK RC	RC30/40	200 kg/m²
SW04	150mm THICK RC	RC30/40	200 kg/m²
SW05	225mm THICK RC	RC30/40	200 kg/m²

STRUCTURAL COLUMN SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC294x294x73	S355
SC03	UC294x294x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x6.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x44	S355
SB03	UB356x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x151x62	S355
SB06	UB532x106x52	S355
SB07	UB532x107x122	S355
SB08	UB610x229x101	S355
SB09	UC305x305x118	S355
SB10	SHS150x150x12.5	S355
SB11	FFC430x100x4	S355
SB12	FFC300x100x4	S355
SB13	L150x150x12	S355
SB14	UC294x294x73	S355
SB15	UC294x294x89	S355
SB16	UC293x293x60	S355

FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLAB ARE COMPOSITE BEAMS

(WORK IN PROGRESS (COSTING))
THE INFORMATION ON THIS DRAWING IS AN OPTIMISED COST SOLUTION BASED UPON EXTERNAL INFORMATION AS OF 03.03.2025. IT MAY BE SUBJECT TO CHANGE BASED UPON EXTERNAL INFLUENCES THROUGH DESIGN DEVELOPMENT SUCH AS CLIENT BRIEF & SCOPE CHANGES, SERVICES / BWC, SUB-CONTRACTOR REQUIREMENTS ETC. THE INFORMATION MUST THEREFORE BE USED WITH A SUITABLE CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING, COST MANAGEMENT, N/A MEASUREMENT ETC.

PRG	STAGE 2	28.03.25	SW	KG
PRJ	DRAFT STAGE 2	14.03.25	SW	KG
Rev	Description	Date	By	Chd

Curtins
Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG
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manchester@curtins.com
www.curtins.com

Drawn By: GP
Designed By: KG
Checked By: MA
Date: MAR 25
Scale: @ 40
As Indicated

Project: PROJECT SAM

Project Title: LEVEL 06 GENERAL ARRANGEMENT

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

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Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

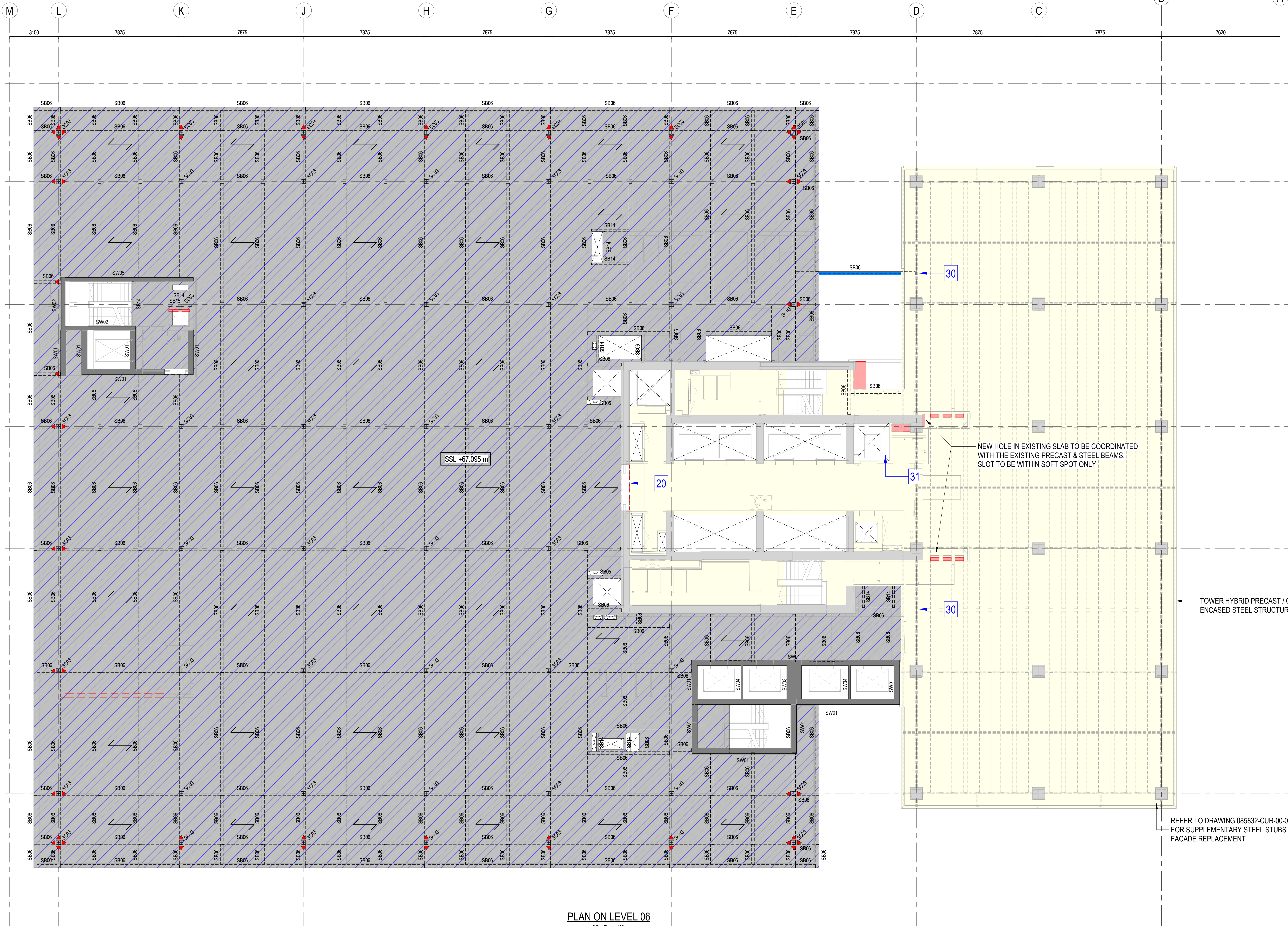
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Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

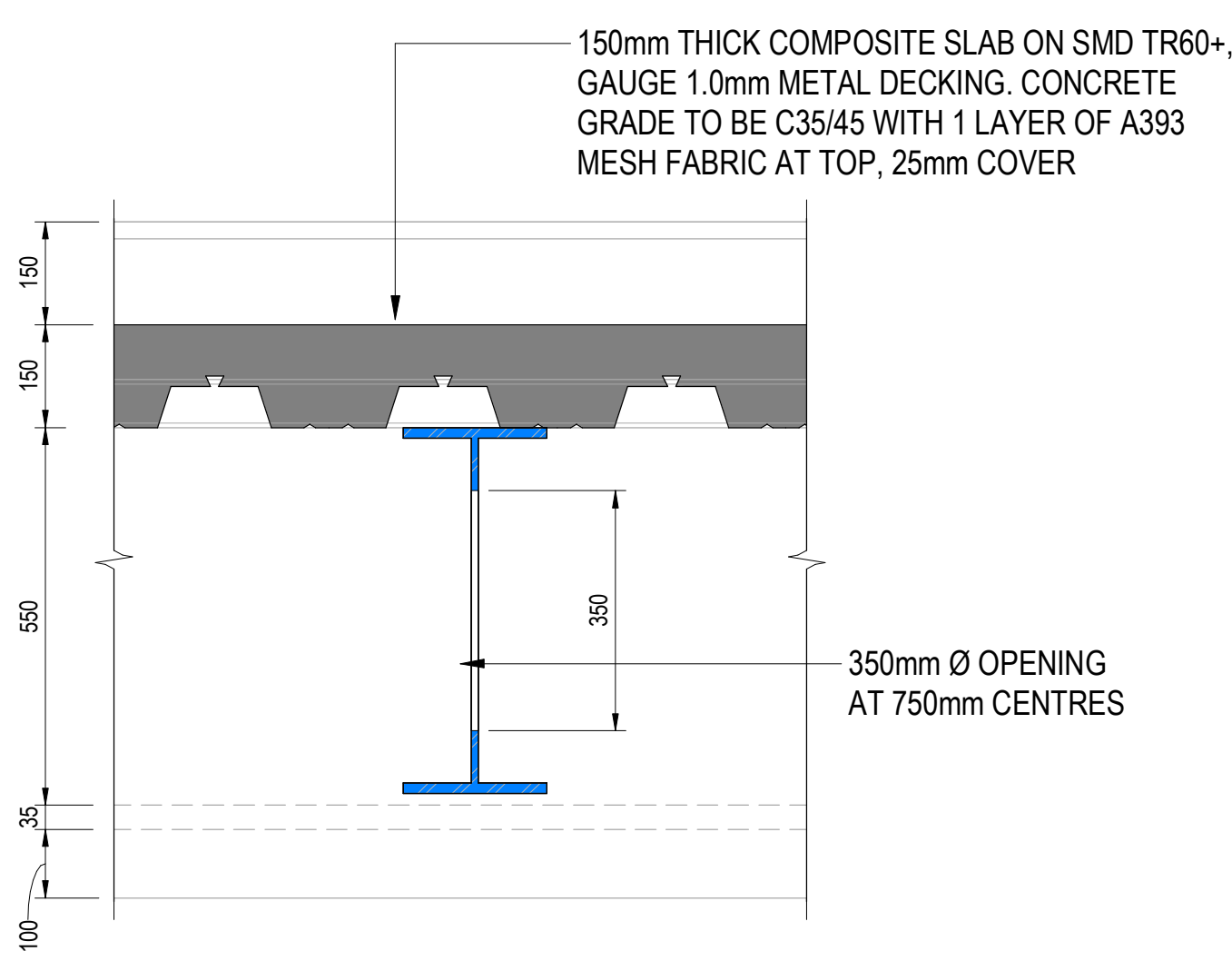
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Project No.: 085832 - CUR - 00 - 06 - D - S - 20106



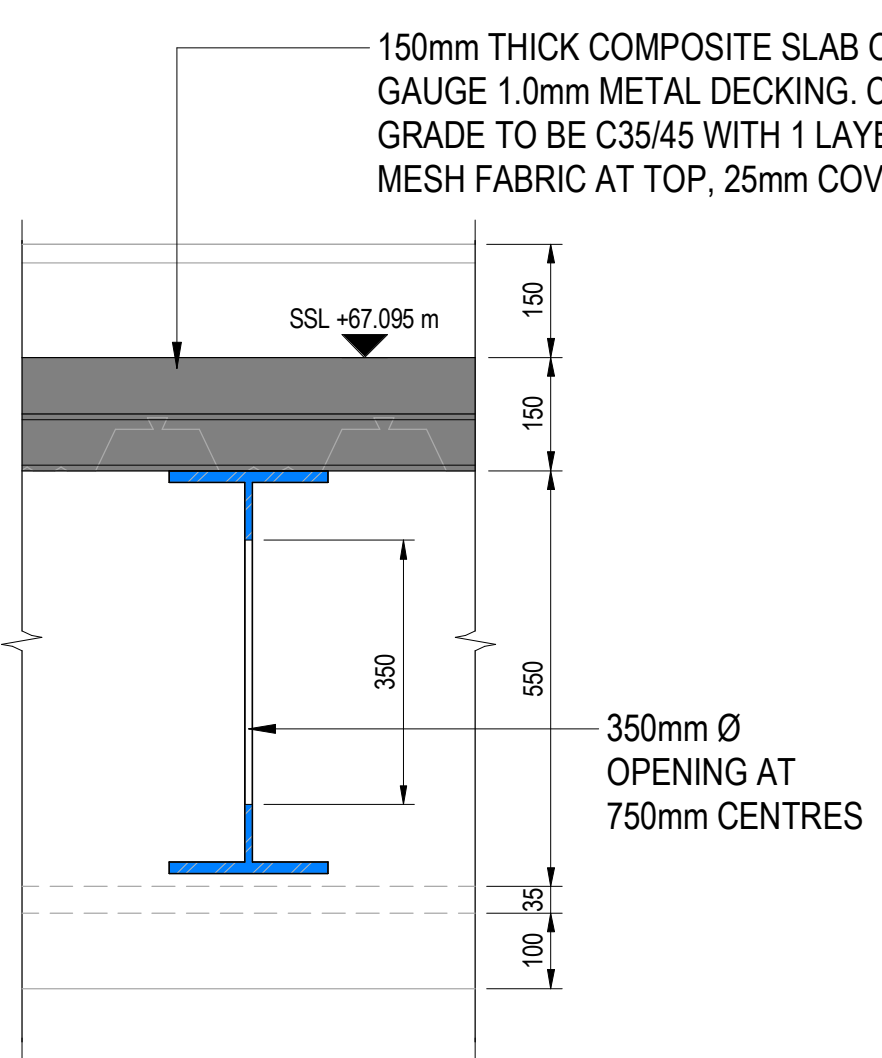
PLAN ON LEVEL 06

SCALE: 1:100



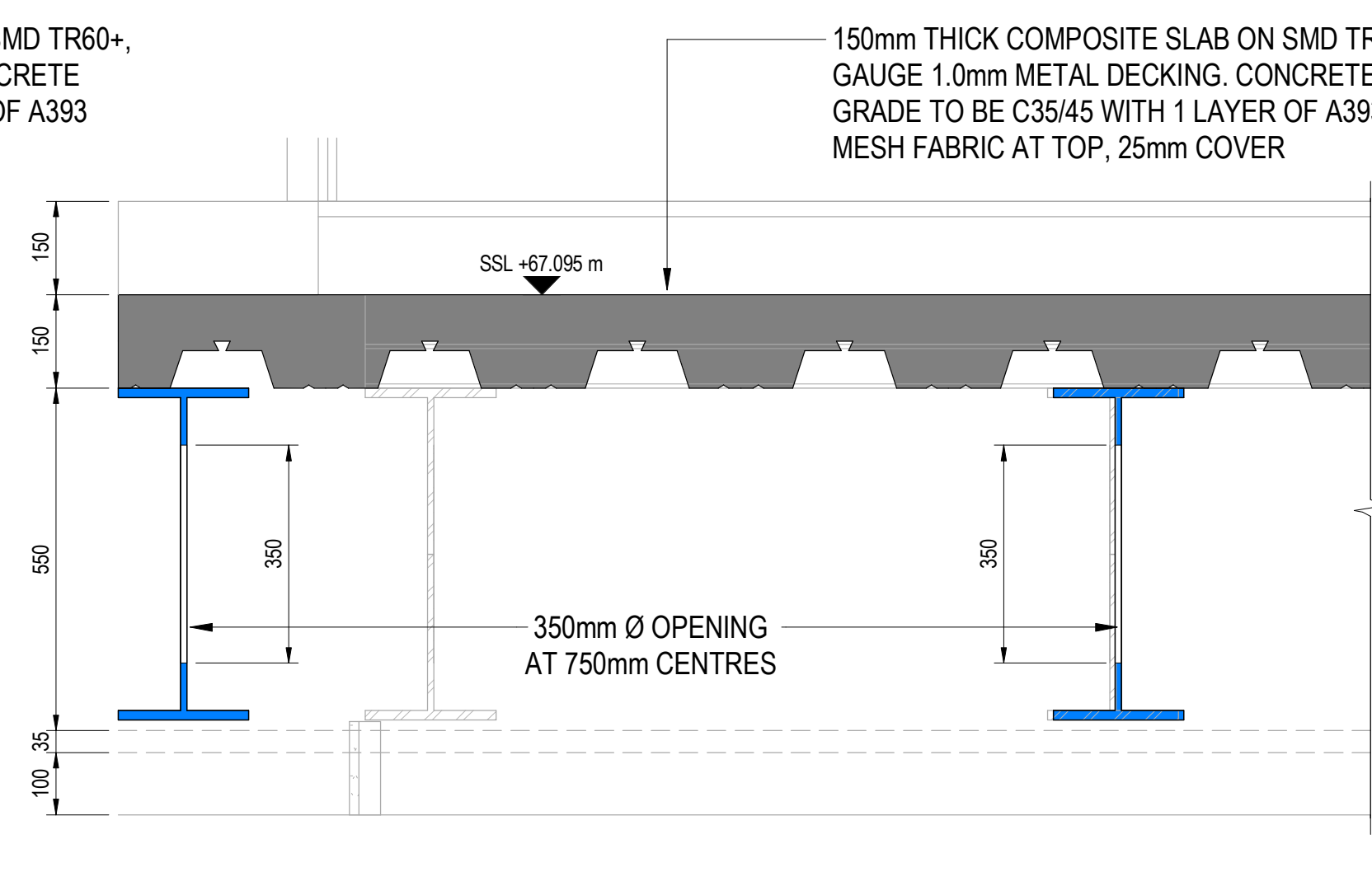
SECTION 1-1

SCALE: 1:10



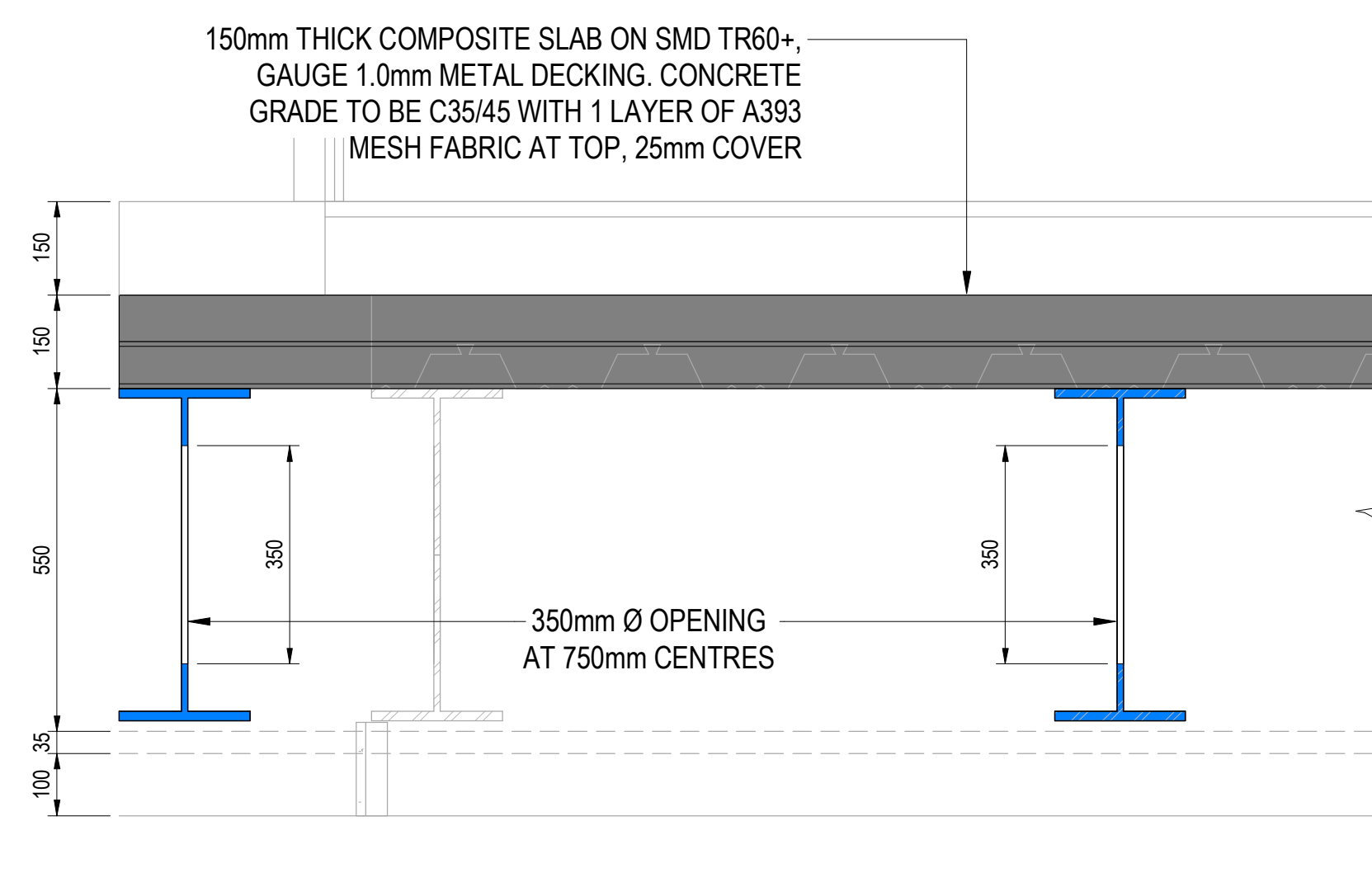
SECTION 2-2

SCALE: 1:10



SECTION 3-3

SCALE: 1:10



SECTION 4-4

SCALE: 1:10

PLATE GIRDER SCHEDULE						
REF	SIZE	STRUCTURAL MATERIAL	CELL Ø (mm)	CELL PITCH (mm)	FLANGE THICKNESS (mm)	WEB THICKNESS (mm)
PG01	PB 470x275x50x288.5	S355	175	750	50	25

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

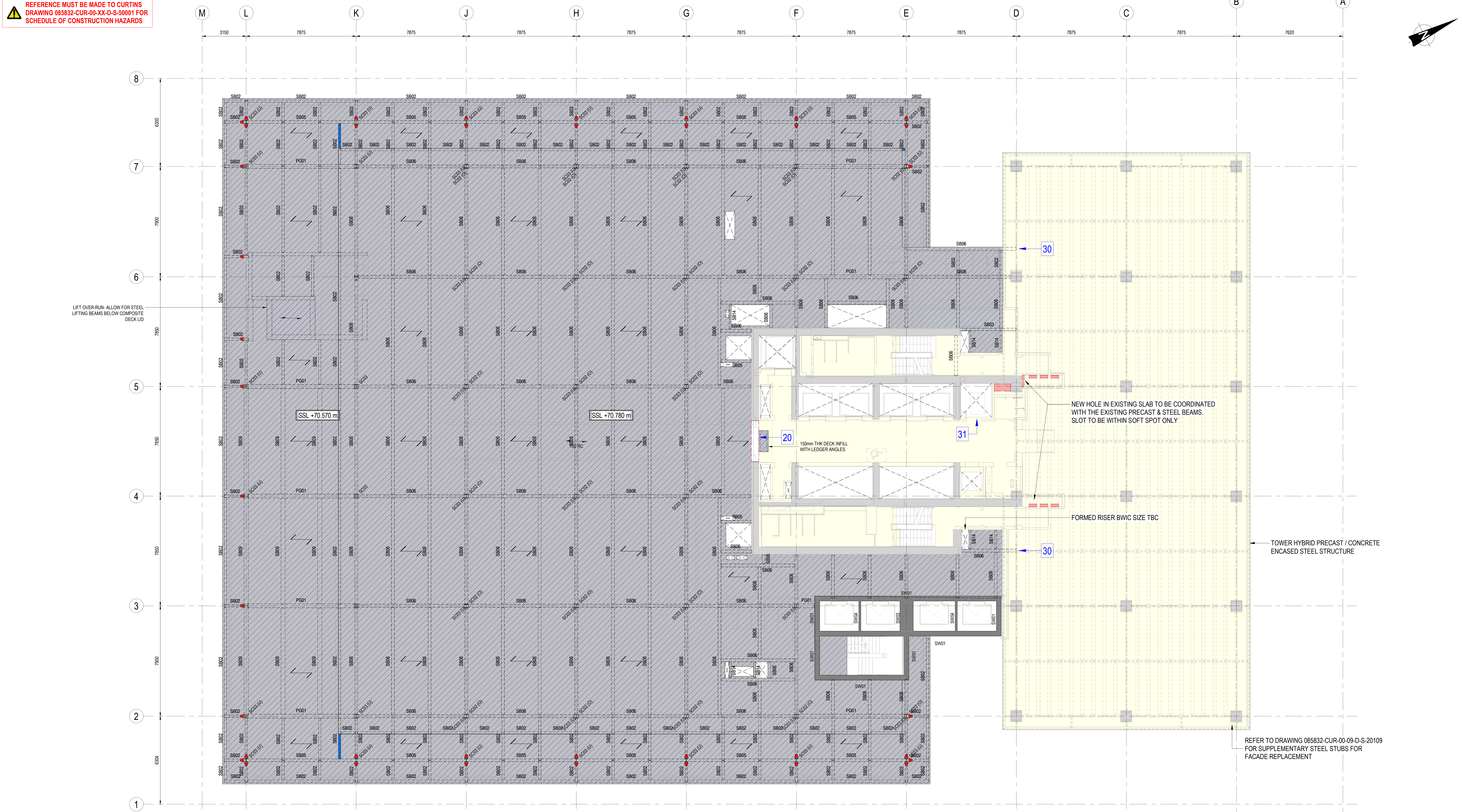
Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

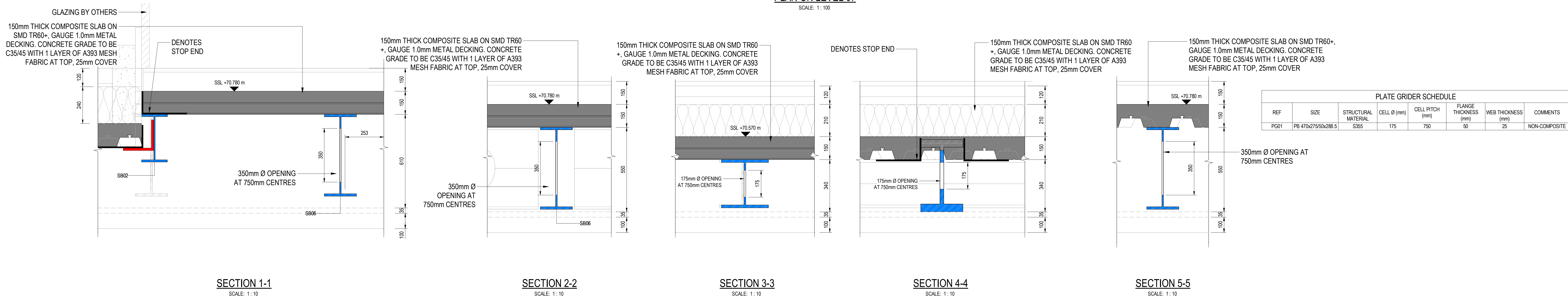
Project No.: 085832 - CUR - 00 - 06 - D - S - 20106

REFERENCE MUST BE MADE TO CURTINS
DRAWING 085832-CUR-00-XX-D-S-50001 FOR
SCHEDULE OF CONSTRUCTION HAZARDS



PLAN ON LEVEL 07

SCALE: 1: 100



SECTION 1-1

SCALE: 1: 10

SECTION 2-2

SCALE: 1: 10

SECTION 3-3

SCALE: 1: 10

SECTION 4-4

SCALE: 1: 10

SECTION 5-5

SCALE: 1: 10

GENERAL NOTES:

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- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.

KEY

- ▶ DENOTES RIGID MOMENT RESISTING CONNECTION
- ▨ DENOTES SPAN OF 150mm THICK SMD TR60 DECKING, 1.0mm GAUGE WITH A393 MESH THROUGHOUT
- DENOTES COLUMN BELOW
- DENOTES COLUMN ABOVE
- DENOTES EXISTING COLUMN
- DENOTES EXISTING RC SLAB
- DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLAB & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
- ✕ DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

ALL STEEL BEAMS SUPPORTING COMPOSITE DECKING TO BE DESIGNED COMPOSITELY UNLESS OTHERWISE STATED. ALLOWANCE TO BE MADE FOR 2 ROWS OF 19mm Ø x 100mm SHEAR STUDS AT 150mm CENTRES, WITH B12 TRANSVERSE REBAR AT EACH STUD LOCATION

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL AND CONCRETE ELEMENTS. REFER TO FIRE ENGINEERS REPORT FOR CONFIRMATION OF RATING

ALLOWANCE SHOULD BE MADE FOR STEEL END PLATES TO BE CAST INTO CORE WALLS AT CONNECTIONS TO STEEL BEAMS

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEELWORK

FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC30/40	200 kg/m ²
SW02	250mm THICK RC	RC30/40	200 kg/m ²
SW03	950mm THICK RC	RC30/40	200 kg/m ²
SW04	150mm THICK RC	RC30/40	200 kg/m ²
SW05	225mm THICK RC	RC30/40	200 kg/m ²

STRUCTURAL COLUMN SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC294x294x73	S355
SC03	UC294x294x99	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x6.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x40	S355
SB03	UB356x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x151x62	S355
SB06	UB532x106x52	S355
SB07	UB532x106x52	S355
SB08	UB610x229x101	S355
SB09	UC305x305x118	S355
SB10	SHS150x150x12.5	S355
SB11	FC403x106x64	S355
SB12	FFC300x100x46	S355
SB13	L150x150x12	S355
SB14	UB203x133x30	S355
SB15	UC294x294x73	S355
SB16	UC203x203x46	S355

FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLAB ARE COMPOSITE BEAMS

WORK IN PROGRESS (COSTING)
THE INFORMATION ON THIS DRAWING IS AN OPTIMISED COST SOLUTION BASED UPON EXTERNAL INFORMATION AS OF 03.03.2025. IT MAY BE SUBJECT TO CHANGE BASED UPON EXTERNAL INFLUENCES THROUGH DESIGN DEVELOPMENT SUCH AS CLIENT BRIEF & SCOPE CHANGES, SERVICES / BWC, SUB-CONTRACTOR REQUIREMENTS ETC. THE INFORMATION MUST THEREFORE BE USED WITH A SUITABLE CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING, COST MANAGEMENT, N/A MEASUREMENT ETC.

P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev	Description	Date	By	Chkd



STAGE 2

PROJECT SAM

Org Title:

LEVEL 07
GENERAL ARRANGEMENT

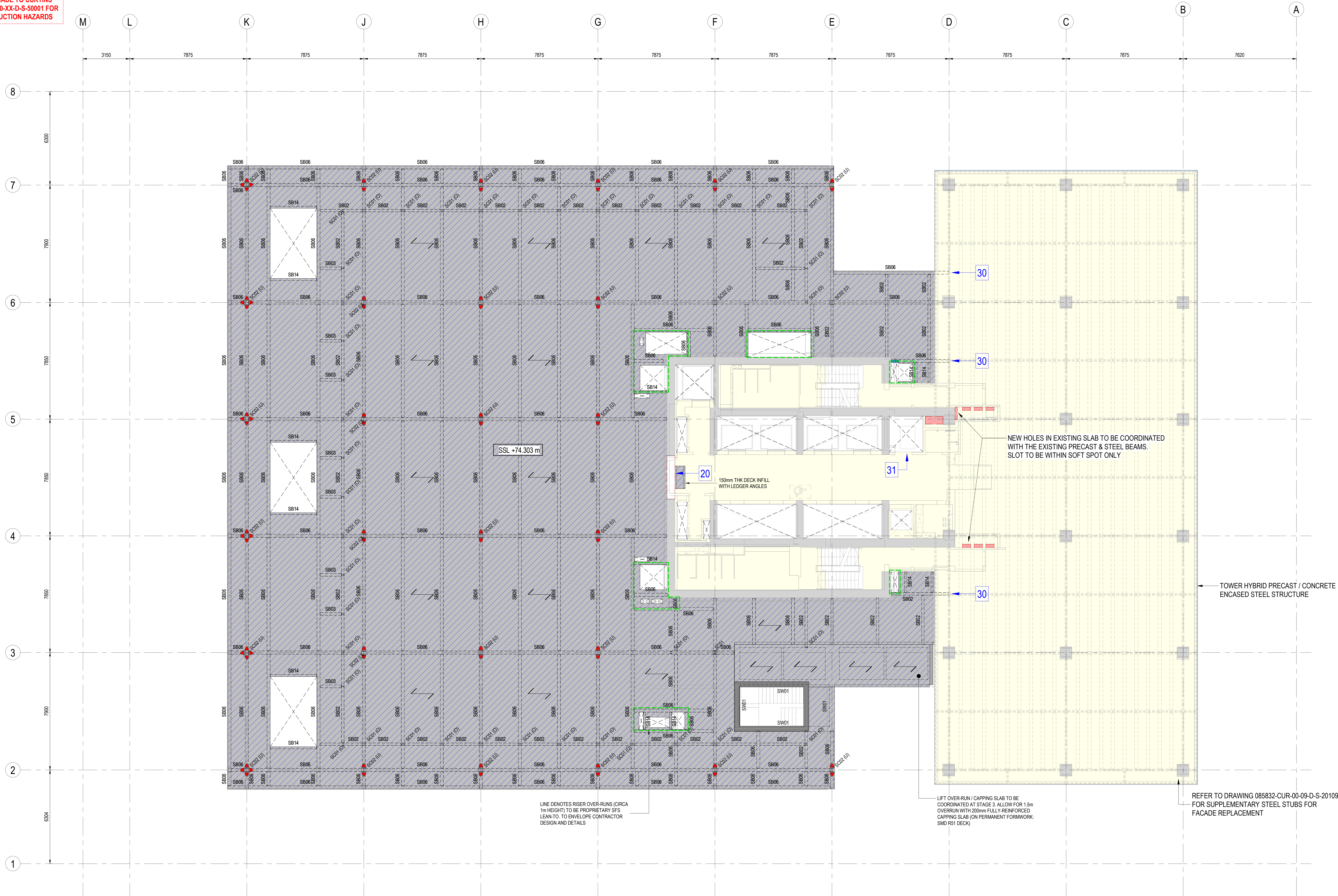
Drawn By: GP, Designed By: KG, Checked By: MA

Date: MAR 25, Scale: @ A3, As Indicated

Project No - Originator - Function - Spatial - Form - Discipline - Number: 085832 - CUR - 00 - 07 - D - S - 20107

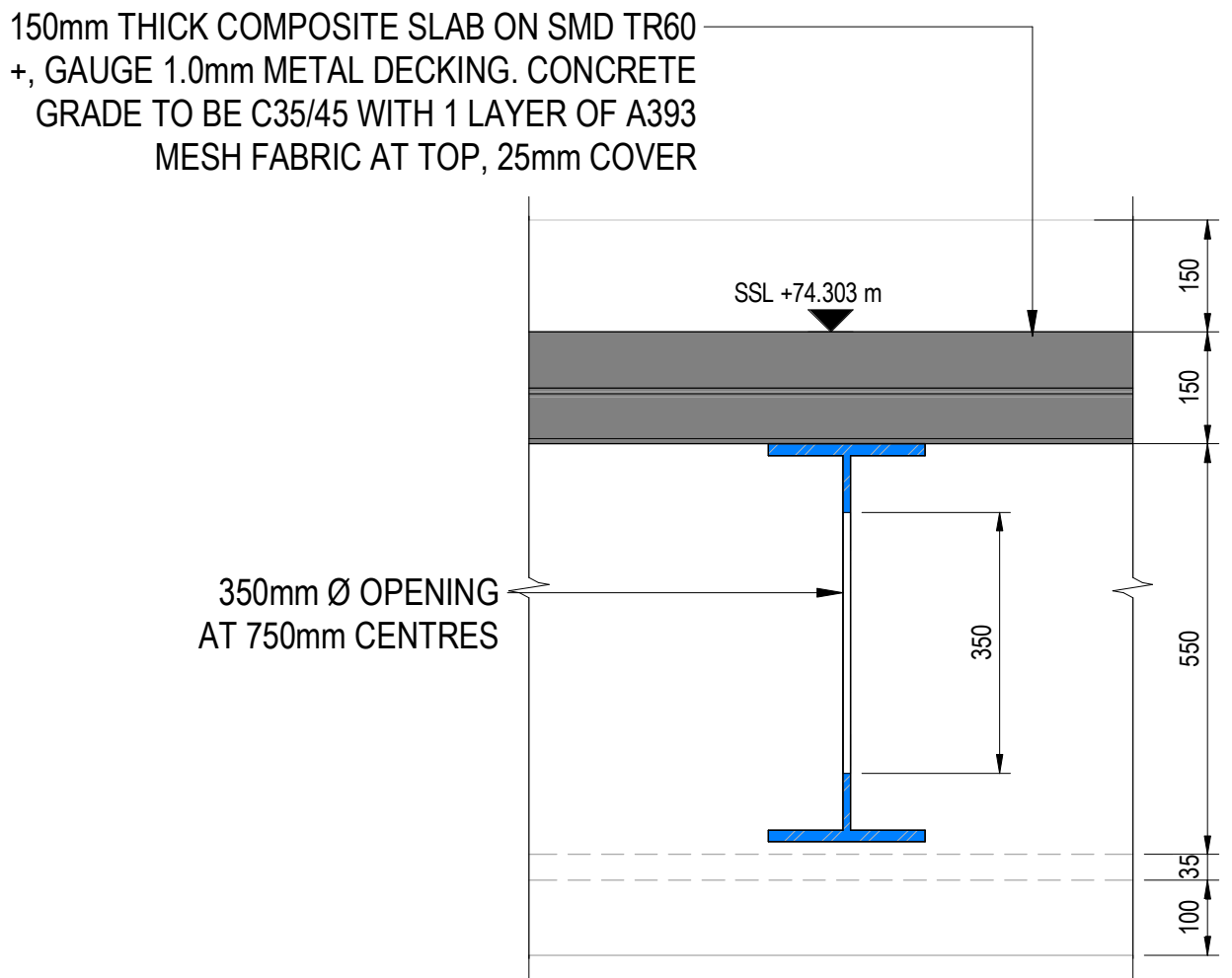
Revision: P02

085832-0160-02-22-AS-S-20107



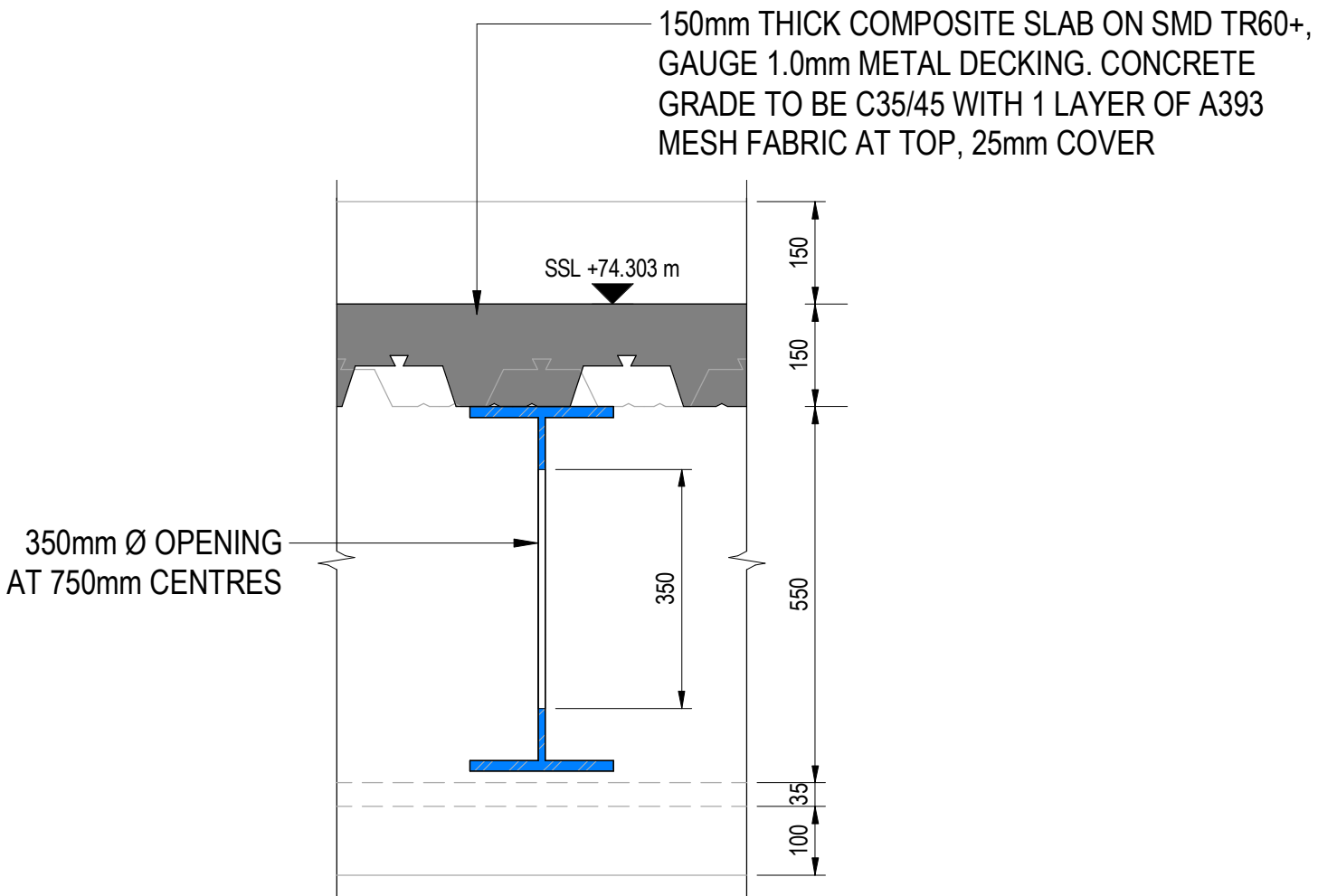
PLAN ON LEVEL 08

SCALE: 1: 100



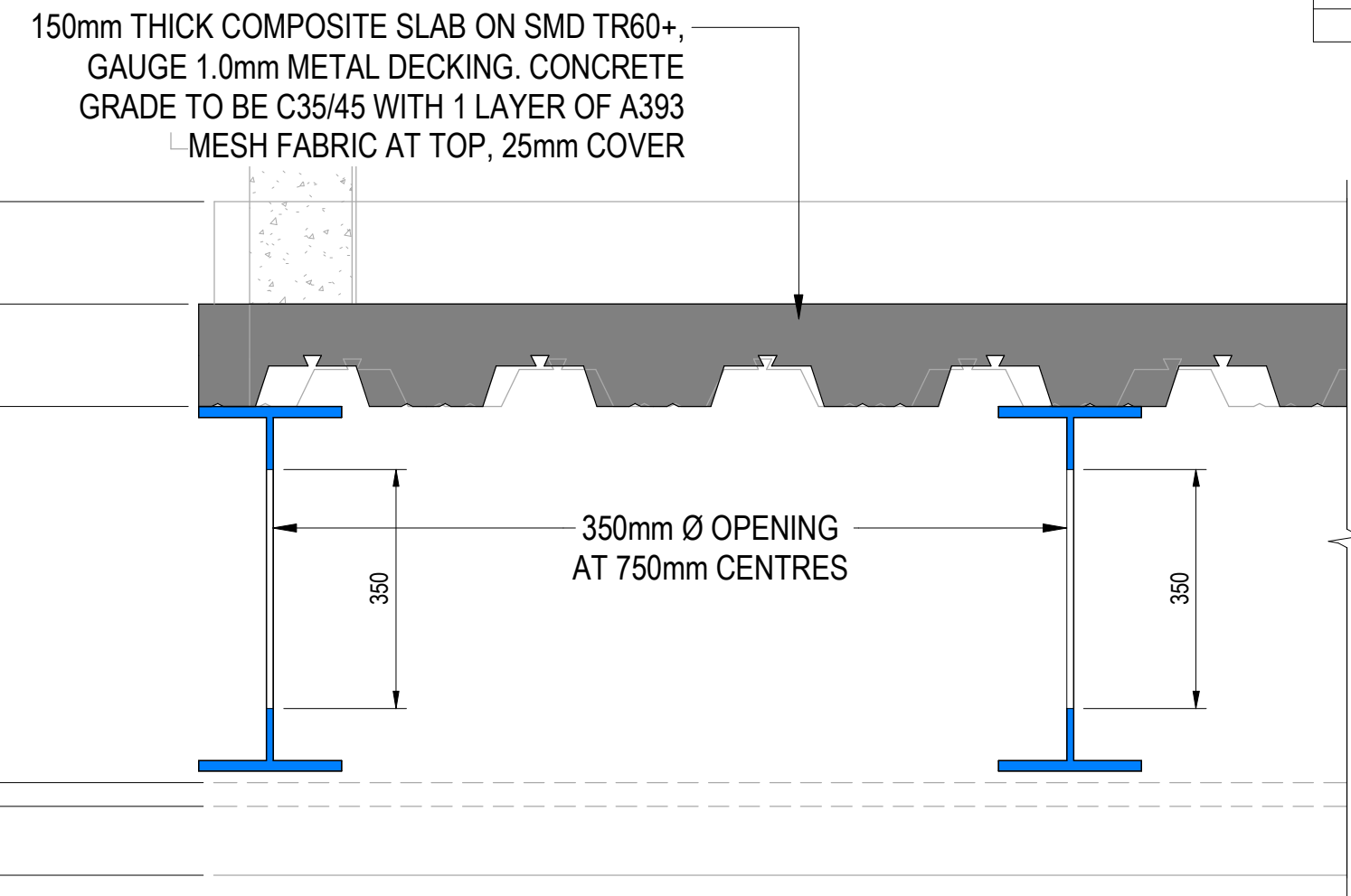
SECTION 1-1

SCALE: 1: 10



SECTION 2-2

SCALE: 1: 10



SECTION 3-3

SCALE: 1: 10

PLATE GRIDER SCHEDULE						
REF	SIZE	STRUCTURAL MATERIAL	CELL Ø (mm)	CELL PITCH (mm)	FLANGE THICKNESS (mm)	WEB THICKNESS (mm)
PG01	PB 470x275x50x288.5	S355	175	750	50	25
COMMENTS: NON-COMPOSITE						

GENERAL NOTES:

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KEY	
	DENOTES RIGID MOMENT RESISTING CONNECTION
	DENOTES SPAN OF 150mm THICK SMD TR60 DECKING, 1.0mm GAUGE WITH A393 MESH THROUGHOUT
	DENOTES COLUMN BELOW
	DENOTES COLUMN ABOVE
	DENOTES EXISTING COLUMN
	DENOTES EXISTING RC SLAB
	DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLAB & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
	DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

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ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEELWORK

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STRUCTURAL WALL SCHEDULE			
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SW01	350mm THICK RC	RC30/40	200 kg/m ²
SW02	250mm THICK RC	RC30/40	200 kg/m ²
SW03	350mm THICK RC	RC30/40	200 kg/m ²
SW04	150mm THICK RC	RC30/40	200 kg/m ²
SW05	225mm THICK RC	RC30/40	200 kg/m ²

STRUCTURAL COLUMN SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC294x294x73	S355
SC03	UC294x294x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x6.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x40	S355
SB03	UB356x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x151x62	S355
SB06	UB532x10x62	S355
SB07	UB532x10x62	S355
SB08	UB610x229x101	S355
SB09	UC305x305x118	S355
SB10	SHS150x150x12.5	S355
SB11	PF303x100x64	S355
SB12	PF303x100x64	S355
SB13	L150x150x12	S355
SB14	UB203x133x30	S355
SB15	UC294x294x73	S355
SB16	UC203x203x60	S355

FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLAB ARE COMPOSITE BEAMS

(WORK IN PROGRESS (COSTING))
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PG01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:



Status: STAGE 2

Project: PROJECT SAM

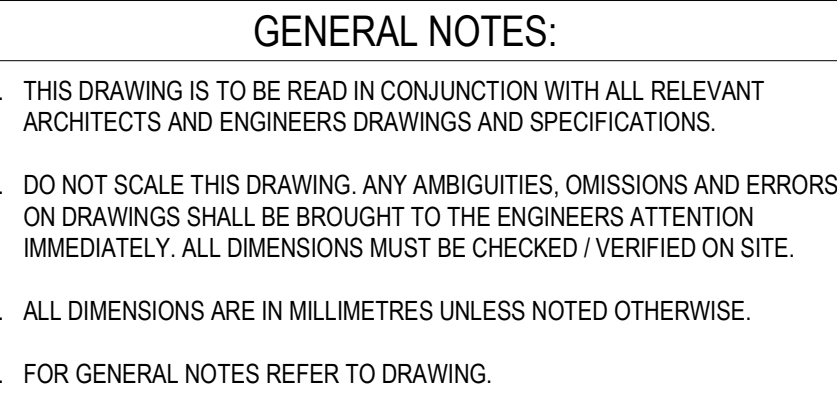
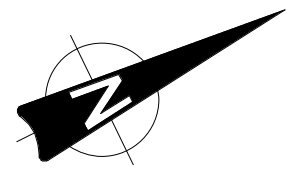
Urg Title: LEVEL 08
GENERAL ARRANGEMENT

Drawn By: GP	Designed By: KG	Checked By: MA
Date: MAR 25	Scale: @ A3	As Indicated

Project No - Originator - Function - Spatial - Form - Discipline - Number
085832 - CUR - 00 - 08 - D - S - 20108

P02

085832-01-08-02-22-AS-S-201010



ALL STEEL BEAMS SUPPORTING COMPOSITE DECKING TO BE DESIGNED COMPOSITELY UNLESS OTHERWISE STATED. ALLOWANCE TO BE MADE FOR 2 ROWS OF 19mm $\varnothing$ x 100mm SHEAR STUDS AT 150mm CENTRES, WITH B12 TRANSVERSE REBAR AT EACH STUD LOCATION

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WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE
PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEEWORK

REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC254x254x73	S355
SC03	UC254x254x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x8.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
S801	UB305x165x40	S355
S802	UB305x165x40	S355
S803	UB356x171x67	S355
S804	UB457x152x60	S355
S805	UB457x191x82	S355
S806	UB633x210x82	S355
S807	UB335x210x122	S355
S808	UB610x229x101	S355
S809	UC254x254x18	S355
S810	SHS150x150x12.5	S355
S811	PF430x100x64	S355
S812	PF330x100x46	S355
S813	L150x100x12	S355
S814	UB150x75x30	S355
S815	UC254x254x17	S355
S816	UC230x20x360	S355

PLATE GRIDER SCHEDULE							
REF	SIZE	STRUCTURAL MATERIAL	CELL Ø (mm)	CELL PITCH (mm)	FLANGE THICKNESS (mm)	WEB THICKNESS (mm)	COMMENTS
PG01	PB 470x275/50x288.5	S355	175	750	50	25	NON-COMPOSITE

TYPICAL SECTION 7-1

SCREEN

Level 09
78.335 m

2.13 HEIGHT

Level 08 SSL
74.596 m

SCALE: 1: 50

P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Checked:

Curtins

Status: **STAGE 2**

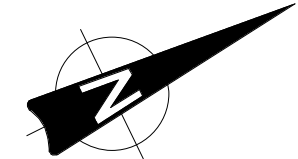
PROJECT SAM

Drug Title:

LEVEL 09
GENERAL ARRANGEMENT

Drawn By GP	Designed By KG	Checked By MA
	Date MAR '25	Scales @ A0 As indicated

Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision:
085832 - CUR - 00 - 09 - D - S - 20109	P02



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.

- COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x45	S355
SB03	UB336x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x191x82	S355
SB06	UB533x210x92	S355
SB07	UB533x210x122	S355
SB08	UB625x229x101	S355
SB09	UC305x305x118	S355
SB10	SHS150x150x12.5	S355
SB11	PF430x100x64	S355
SB12	PF300x100x46	S355
SB13	LS150x50x12	S355
SB14	UB203x136x20	S355
SB15	UC254x254x73	S355
SB16	UC203x203x60	S355

WORK IN PROGRESS (COSTING)
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P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Checked:



Status

STAGE 2

Project

PROJECT SAM

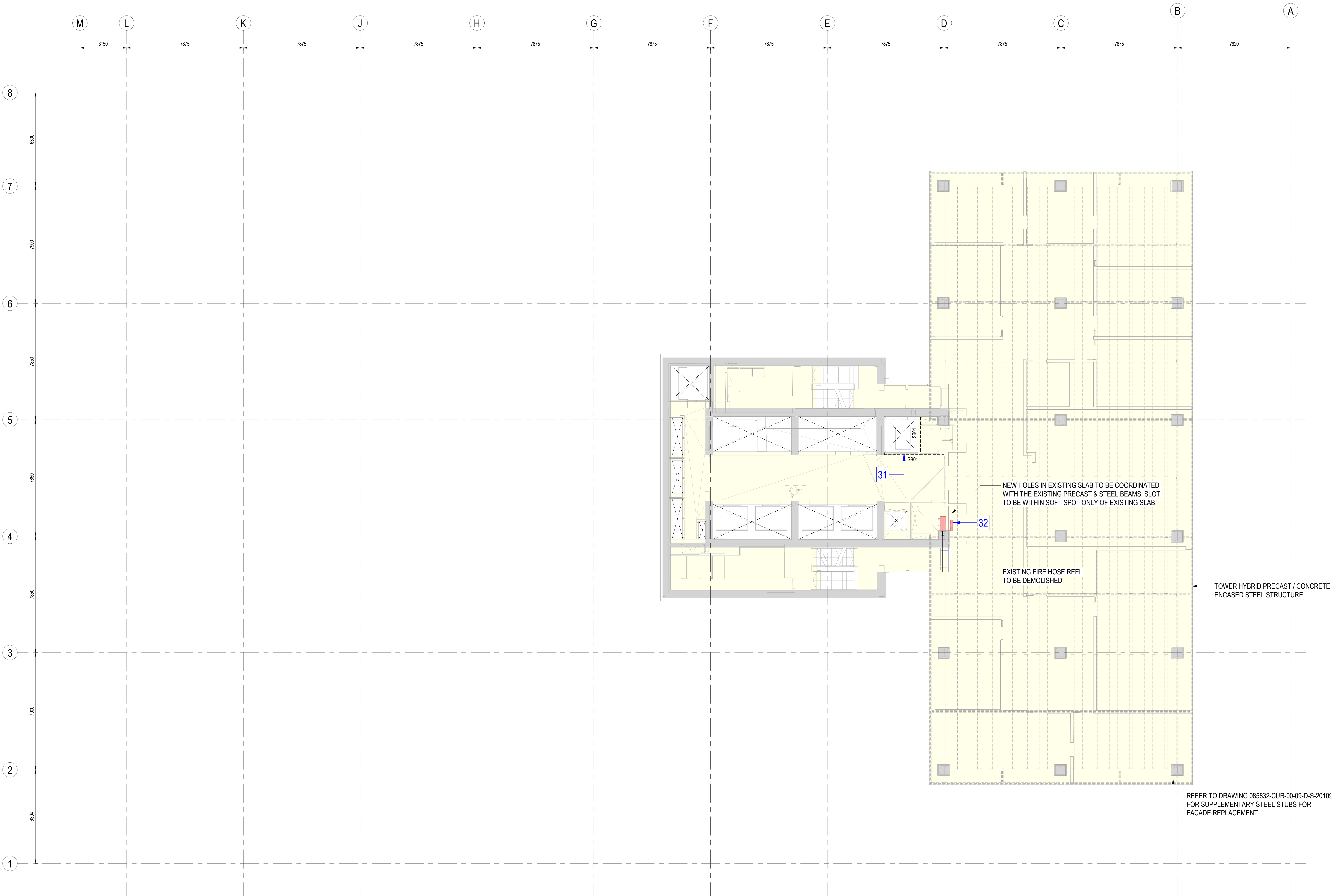
Org Title

LEVEL 10-22
GENERAL ARRANGEMENT

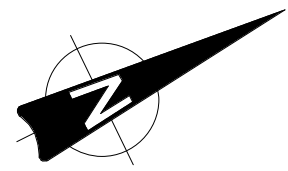
Drawn By GP	Designed By KG	Checked By MA
	Date MAR '25	Scales @ A0 1 : 100

Project No - Originator - Function - Special - Form - Discipline - Number	Revision:
085832 - CUR - 00 - 10 - D - S - 20110	P02

9900 77 M2 S 00010



PLAN ON LEVEL 23
SCALE: 1:100



GENERAL NOTES:

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KEY

- DENOTES RIGID MOMENT RESISTING CONNECTION
- DENOTES SPAN OF 150mm THICK SMD TR60 DECKING, 1.0mm GAUGE WITH A393 MESH THROUGHOUT
- DENOTES COLUMN BELOW
- DENOTES COLUMN ABOVE
- DENOTES EXISTING COLUMN
- DENOTES EXISTING RC SLAB
- DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLAB & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
- DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

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FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE PRIMARY FRAME, NOT INCLUDING CONNECTIONS

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STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC30/40	200 kg/m²
SW02	250mm THICK RC	RC30/40	200 kg/m²
SW03	950mm THICK RC	RC30/40	200 kg/m²
SW04	150mm THICK RC	RC30/40	200 kg/m²
SW05	225mm THICK RC	RC30/40	200 kg/m²

STRUCTURAL COLUMN SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC294x294x73	S355
SC03	UC294x294x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x6.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x54	S355
SB03	UB356x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x151x82	S355
SB06	UB532x10x62	S355
SB07	UB532x170x122	S355
SB08	UB610x229x101	S355
SB09	UC305x305x118	S355
SB10	SHS150x150x12.5	S355
SB11	PFC430x100x64	S355
SB12	PFC300x100x46	S355
SB13	L150x150x12	S355
SB14	UB203x133x30	S355
SB15	UC294x294x73	S355
SB16	UC203x203x46	S355

PROJ	STAGE 2	28.03.25	SW	KG
PROJ	DRAFT STAGE 2	14.03.25	SW	KG

Rev	Description	Date	By	Chkd
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Merchant Exchange, 17-19 Whitehall Street West, Manchester, M1 5WG
0161 236 2384
merchant@curtins.com
www.curtins.com

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Status: STAGE 2

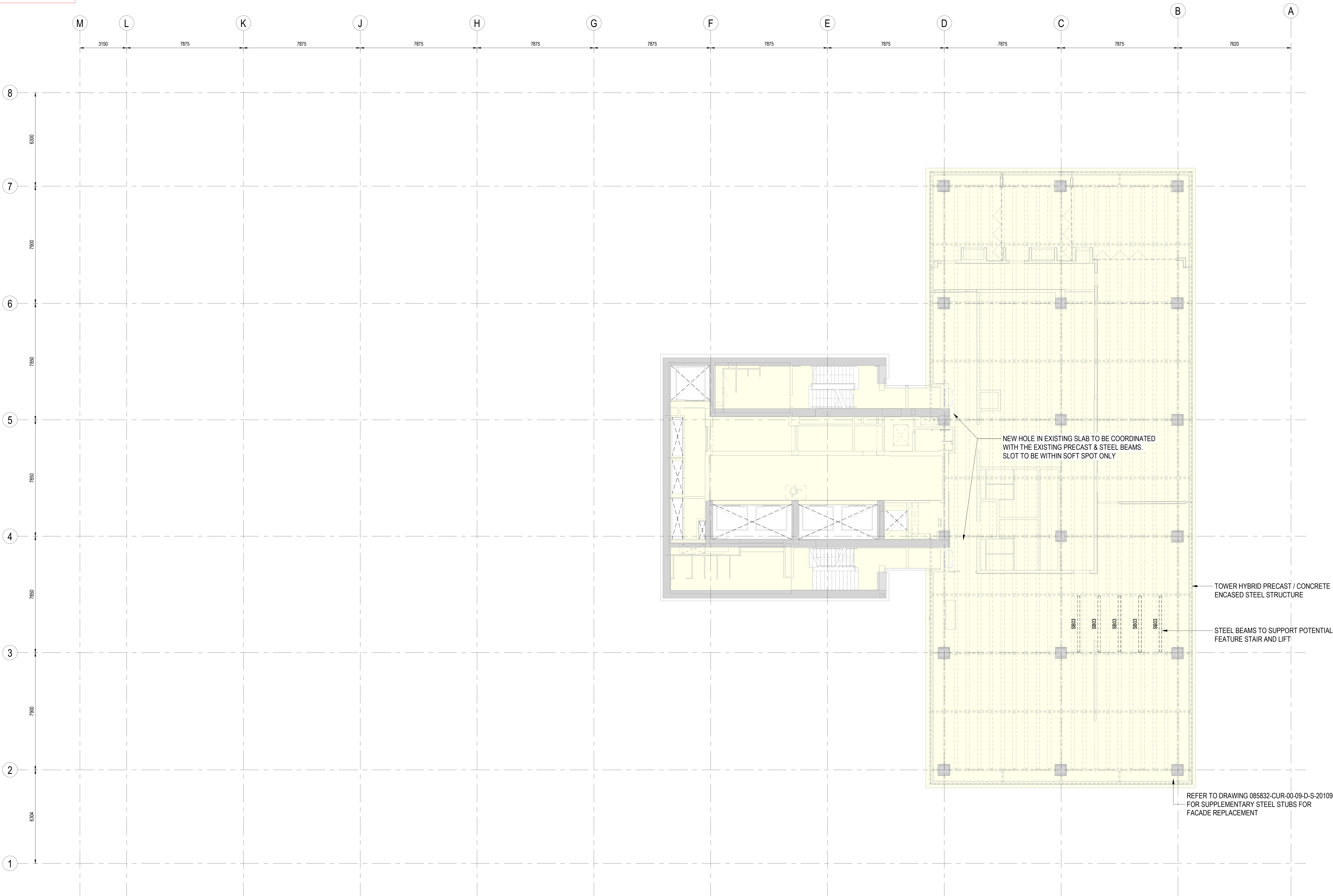
Project: PROJECT SAM

Org Title: LEVEL 23
GENERAL ARRANGEMENT

Drawn By	Designed By	Checked By
GP	KG	MA
Date	MAR 25	Scale @ A3
1:100		

Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision:
085832 - CUR - 00 - 23 - D - S - 20123	P02

085832-CUR-00-23-D-S-20010



PLAN ON LEVEL 24
SCALE: 1:100

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
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KEY

- DENOTES RIGID MOMENT RESISTING CONNECTION
- DENOTES SPAN OF 150mm THICK SMD TR60 DECKING, 1.0mm GAUGE WITH A393 MESH THROUGHOUT
- DENOTES COLUMN BELOW
- DENOTES COLUMN ABOVE
- DENOTES EXISTING COLUMN
- DENOTES EXISTING RC SLAB
- DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
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WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEEWORK

FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL WALL SCHEDULE

REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC30/40	200 kg/m²
SW02	250mm THICK RC	RC30/40	200 kg/m²
SW03	950mm THICK RC	RC30/40	200 kg/m²
SW04	150mm THICK RC	RC30/40	200 kg/m²
SW05	225mm THICK RC	RC30/40	200 kg/m²

STRUCTURAL COLUMN SCHEDULE

REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC294x294x73	S355
SC03	UC294x294x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x6.0	S355

STRUCTURAL FRAMING SCHEDULE

REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x54	S355
SB03	UB356x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x151x82	S355
SB06	UB532x10x62	S355
SB07	UB532x170x122	S355
SB08	UB610x229x101	S355
SB09	UC305x305x118	S355
SB10	SHS150x150x12.5	S355
SB11	FFC430x100x64	S355
SB12	FFC300x100x46	S355
SB13	L150x150x12	S355
SB14	UB203x133x30	S355
SB15	UC294x294x73	S355
SB16	UC203x203x40	S355

TOWER HYBRID PRECAST / CONCRETE
ENCASED STEEL STRUCTURE

STEEL BEAMS TO SUPPORT POTENTIAL
FEATURE STAIR AND LIFT

REFER TO DRAWING 085832-CUR-00-09-D-S-20109
FOR SUPPLEMENTARY STEEL STUBS FOR
FACADE REPLACEMENT

Rev:	Description:	Date:	By:	Chd:
P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG

Curtins
Merchant Exchange, 17-19 Whitehall Street West, Manchester, M1 5WG
0161 236 2384
enquiries@curtins.com
www.curtins.com

Status: STAGE 2

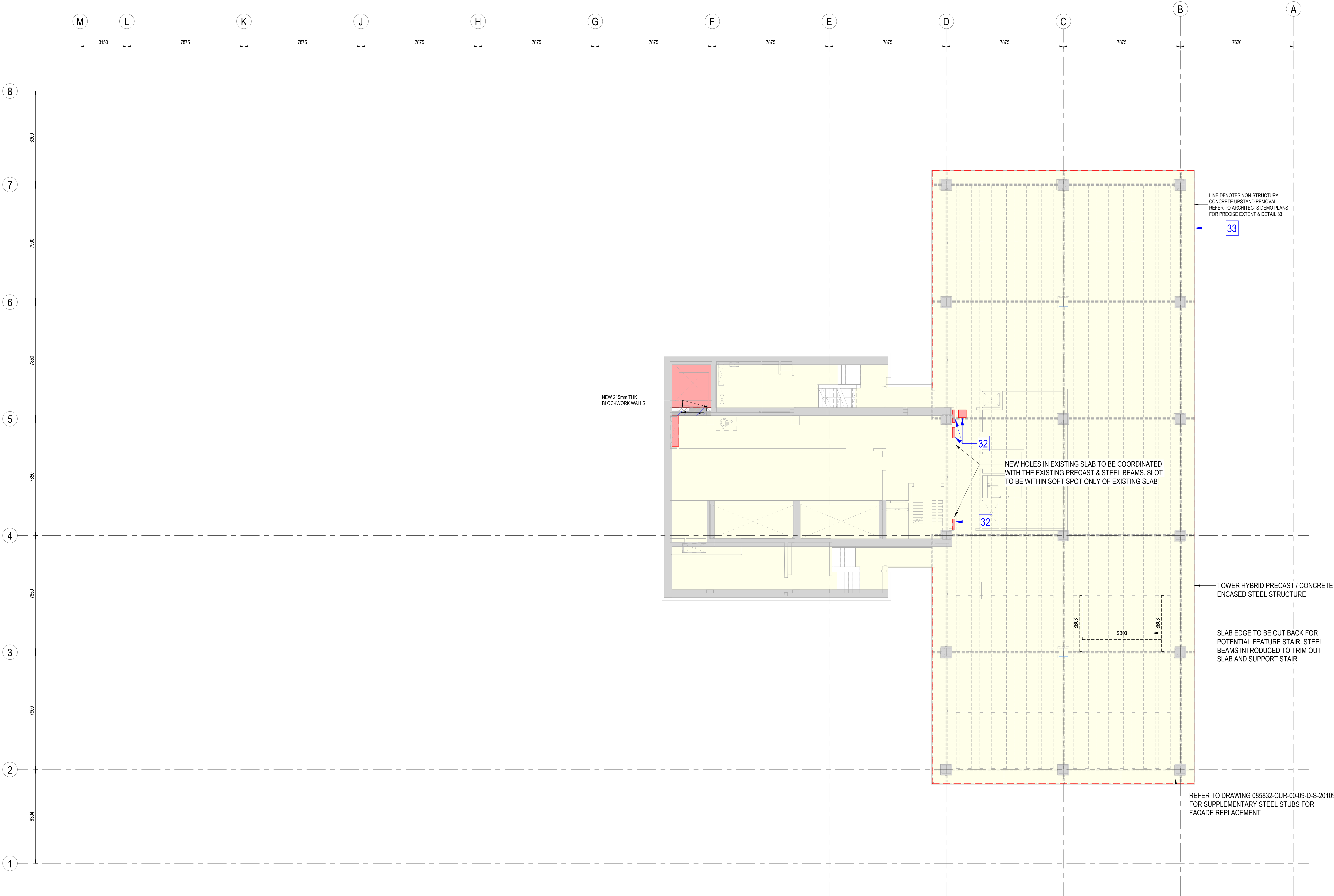
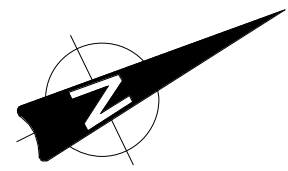
Project: PROJECT SAM

Org Title: LEVEL 24
GENERAL ARRANGEMENT

Drawn By: GP	Designed By: KG	Checked By: MA
Date: MAR 25	Scale: @ A3	1:100

Project No - Originator - Function - Spatial - Form - Discipline - Number: 085832 - CUR - 00 - 24 - D - S - 20124

Revision: P02



PLAN ON LEVEL 25
SCALE: 1:100

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.

KEY

- DENOTES RIGID MOMENT RESISTING CONNECTION
- DENOTES SPAN OF 150mm THICK SMD TR60 DECKING, 1.0mm GAUGE WITH A393 MESH THROUGHOUT
- DENOTES COLUMN BELOW
- DENOTES COLUMN ABOVE
- DENOTES EXISTING COLUMN
- DENOTES EXISTING RC SLAB
- DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
- DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

ALL STEEL BEAMS SUPPORTING COMPOSITE DECKING TO BE DESIGNED COMPOSITELY UNLESS OTHERWISE STATED. ALLOWANCE TO BE MADE FOR 2 ROWS OF 19mm Ø x 100mm SHEAR STUDS AT 150mm CENTRES, WITH B12 TRANSVERSE REBAR AT EACH STUD LOCATION

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL AND CONCRETE ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

ALLOWANCE SHOULD BE MADE FOR STEEL END PLATES TO BE CAST INTO CORE WALLS AT CONNECTIONS TO STEEL BEAMS

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEELWORK

FOR COSTING PURPOSES ASSUME ALL STEEL BEAMS SUPPORTING NEW COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL WALL SCHEDULE

REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC30/40	200 kg/m ²
SW02	250mm THICK RC	RC30/40	200 kg/m ²
SW03	950mm THICK RC	RC30/40	200 kg/m ²
SW04	150mm THICK RC	RC30/40	200 kg/m ²
SW05	225mm THICK RC	RC30/40	200 kg/m ²

STRUCTURAL COLUMN SCHEDULE

REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC294x294x73	S355
SC03	UC294x294x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x6.0	S355

STRUCTURAL FRAMING SCHEDULE

REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x165x40	S355
SB02	UB305x165x47	S355
SB03	UB356x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x151x82	S355
SB06	UB532x10x62	S355
SB07	UB532x10x122	S355
SB08	UB610x229x101	S355
SB09	UC305x305x118	S355
SB10	SHS150x150x12.5	S355
SB11	PFCA30x10x64	S355
SB12	PFCA300x100x46	S355
SB13	L150x150x12	S355
SB14	UB203x133x30	S355
SB15	UC294x294x73	S355
SB16	UC203x203x40	S355

Rev	Stage	Date	By	Chk
P01	DRAFT STAGE 2	14.03.25	SW	KG



STAGE 2

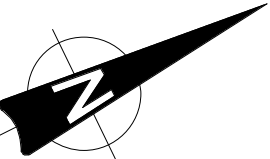
PROJECT SAM

LEVEL 25
GENERAL ARRANGEMENT

Drawn By	Designed By	Checked By
GP	KG	MA
Date	Scale @ A1	Revision
MAR 25	1:100	

Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision
085832 - CUR - 00 - 25 - D - S - 20125	P02

085832-CUR-00-25-D-S-20109



← TOWER HYBRID PRECAST / CONCRETE
ENCASED STEEL STRUCTURE

SCALE: 1 : 100

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.

- | | |
|---|---|
| KEY | |
|  | DENOTES RIGID MOMENT RESISTING CONNECTION |
|  | DENOTES SPAN OF 150mm THICK SMD T860 DECKING,
1.0mm GAUGE WITH A855 MESH THROUGHOUT |
| CDA (D) | DENOTES COLUMN BELOW |
| CDA (U) | DENOTES COLUMN ABOVE |
| EC | DENOTES EXISTING COLUMN |
|  | DENOTES EXISTING RC SLAB |
| | DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF
VOIDS & RISER PENETRATIONS IN SLABS & NEW
OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY.
FOR EXACT LOCATION, LEVEL & SETTING OUT OF
OPENINGS AND PENETRATIONS REFER TO ARCHITECTS
DEMOLITION DRAWINGS |
|  | DENOTES DETAIL REFERENCE FOR DETAILS REFER TO
DRAWINGS SERIES 28 |

ALL STEEL BEAMS SUPPORTING COMPOSITE DECKING TO BE DESIGNED COMPOSITELY UNLESS OTHERWISE STATED. ALLOWANCE TO BE MADE FOR 2 ROWS OF 19mm ϕ x 100mm SHEAR STUDS AT 150mm CENTRES, WITH B12 TRANSVERSE REBAR AT EACH STUD LOCATION

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL AND CONCRETE ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

ALLOWANCE SHOULD BE MADE FOR STEEL END PLATES TO BE CAST INTO CORE WALLS AT CONNECTIONS TO STEEL BEAMS

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO
CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE
CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE
PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEEWORK

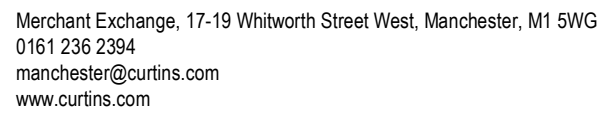
COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ³
SW02	250mm THICK RC	RC32/40	200 kg/m ³
SW03	950mm THICK RC	RC32/40	200 kg/m ³
SW04	150mm THICK RC	RC32/40	200 kg/m ³
SW05	225mm THICK RC	RC32/40	200 kg/m ³

STRUCTURAL COLUMN SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC254x254x73	S355
SC03	UC254x254x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x8.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
SB01	UB305x155x40	S355
SB02	UB305x155x45	S355
SB03	UB356x171x57	S355
SB04	UB457x152x60	S355
SB05	UB457x191x82	S355
SB06	UB533x216x92	S355
SB07	UB533x216x122	S355
SB08	UB625x229x101	S355
SB09	UC305x305x118	S355
SB10	SH150x150x12.5	S355
SB11	PF430x100x64	S355
SB12	PF300x100x48	S355
SB13	LS250x50x12	S355
SB14	UB203x136x20	S355
SB15	UC254x254x73	S355
SB16	UC203x203x60	S355

PC2	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:



Status:	
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STAGE 2

Project

PROJECT SAM

Org Title

LEVEL 26

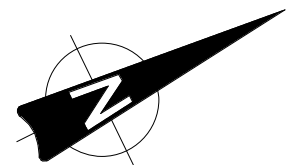
GENERAL ARRANGEMENT

Drawn By GP	Designed By KG	Checked By MA
	Date MAR '25	Scales @ A0 1 : 100

Project No - Originator - Function - Special - Form - Discipline - Number	Revision:
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085832 - CUR - 00 - 26 - D - S - 20126

Revision: P02



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.

- | KEY | |
|---|---|
|  | DENOTES RIGID MOMENT RESISTING CONNECTION |
|  | DENOTES SPAN OF 150mm THICK SMD TR80 DECKING,
1.5mm GAUGE WITH A380 MESH THROUGHOUT |
| CSA (U) | DENOTES COLUMN BELLOW |
| CSA (C) | DENOTES COLUMN ABOVE |
| EC | DENOTES EXISTING COLUMN |
|  | DENOTES EXISTING RC SLAB |
| | DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF
VOIDS & REBAR PENETRATIONS IN SLABS & NEW
OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY.
FOR EXACT LOCATION, LEVEL & SETTING OUT OF
OPENINGS & PENETRATIONS REFER TO ARCHITECTS
DEMOLITION DRAWINGS |
|  | DENOTES DETAIL REFERENCE FOR DETAILS REFER TO
DRAWINGS SETS 28 |

ALL STEEL BEAMS SUPPORTING COMPOSITE DECKING TO BE DESIGNED COMPOSITELY UNLESS OTHERWISE STATED. ALLOWANCE TO BE MADE FOR 2 ROWS OF 19mm Ø x 100mm SHEAR STUDS AT 150mm CENTRES, WITH B12 TRANSVERSE REBAR AT EACH STUD LOCATION

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL AND CONCRETE ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

ALLOWANCE SHOULD BE MADE FOR STEEL END PLATES TO BE CAST INTO CORE WALLS AT CONNECTIONS TO STEEL BEAMS

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO
CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE STEELWORK IS EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

FOR COSTING PURPOSES ALLOW FOR 100kg/m² OF STEELWORK FOR THE
PRIMARY FRAME, NOT INCLUDING CONNECTIONS

ALLOW 25kg/m² FOR SECONDARY CLADDING SUPPORT STEEWORK

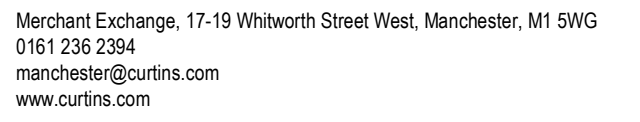
COMPOSITE SLABS ARE COMPOSITE BEAMS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ³
SW02	250mm THICK RC	RC32/40	200 kg/m ³
SW03	950mm THICK RC	RC32/40	200 kg/m ³
SW04	150mm THICK RC	RC32/40	200 kg/m ³
SW05	225mm THICK RC	RC32/40	200 kg/m ³

REF	SIZE	STRUCTURAL MATERIAL
SC01	UC152x152x37	S355
SC02	UC254x254x73	S355
SC03	UC254x254x89	S355
SC04	UC305x305x118	S355
SC05	SHS150x150x8.0	S355

STRUCTURAL FRAMING SCHEDULE		
REF	SIZE	STRUCTURAL MATERIAL
S801	UB305x165x40	S355
S802	UB305x165x54	S355
S803	UB305x171x57	S355
S804	UB457x152x60	S355
S805	UB457x119x52	S355
S806	UB332x126x52	S355
S807	UB305x171x52	S355
S808	UB107x22x101	S355
S809	UC305x305x118	S355
S810	SHS150x150x12.5	S355
S811	PFCA30x100x64	S355
S812	PFCA30x100x46	S355
S813	L150x112	S355
S814	UB203x133x30	S355
S815	UC254x254x73	S355
S816	UB203x203x60	S355

P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:



Status

Project

PROJECT SAM

Org Title:

LEVEL 27
GENERAL ARRANGEMENT

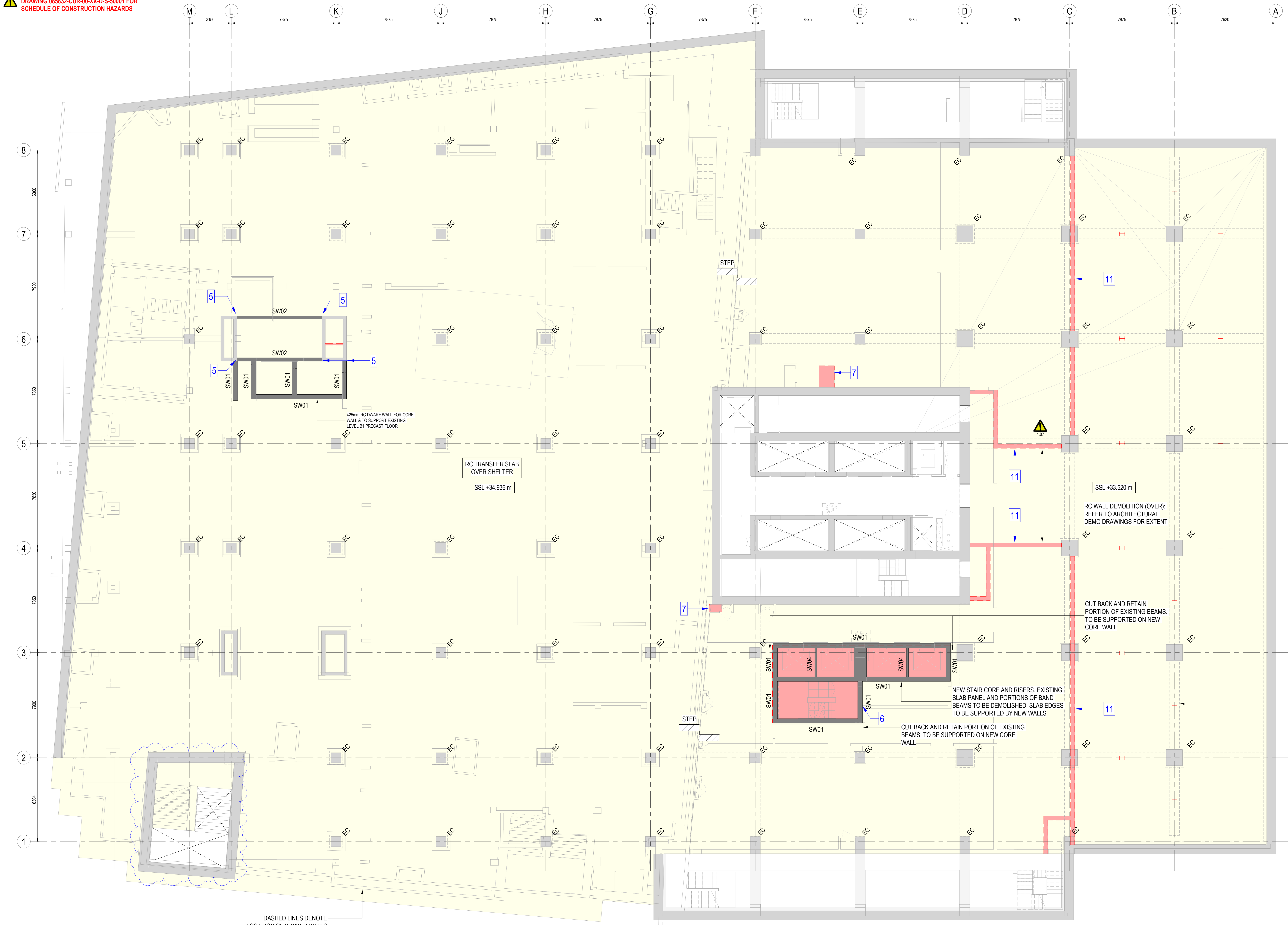
Drawn By GP	Designed By Designer	Checked By MA
	Date MAR 1995	Scales @ A0 1 : 100

Project No - Originator - Function - Special - Form - Discipline - Number	Revision:
085832 - CUR - 00 - 27 - D - S - 20127	P02

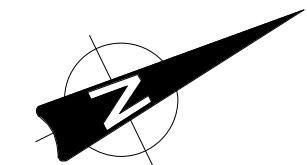
065832-CUR-00-ZZ-M3-S-00010

PLAN ON LEVEL 27
SCALE: 1 : 100

REFERENCE MUST BE MADE TO CURTINS
DRAWING 085832-CUR-00-XX-D-S-50001 FOR
SCHEDULE OF CONSTRUCTION HAZARDS



PLAN ON BASEMENT LEVEL B1
LOWER
SCALE: 1:100



GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
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ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE COLUMNS ARE EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK AND BUILDERS WORK PENETRATIONS THROUGH SLAB. FINAL SIZES AND SETTING OUT TBC BY THE IWE ENGINEER AND ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK TO SUPPORT RISER INFILL FLOOR SECTIONS

ALL CONNECTIONS, INCLUDING SPLICES, BASEPLATES AND HD BOLTS, SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR FROM THE LOADS, MOMENTS AND SHEARS SUPPLIED BY THE ENGINEER

PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE - CONTRACTORS PREFERRED CONSTRUCTION MAY IMPACT STEELWORK ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

STRUCTURAL RC COLUMN SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/B6	250 kg/m ²

- KEY
- EXISTING RC SLAB
 - EXISTING RC WALLS AND COLUMNS
 - DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
 - PROPOSED PRECAST SLAB
 - PROPOSED COMPOSITE METAL DECKING
 - PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER
 - NEW MASONRY WALL
 - NEW CONCRETE INFILL
 - EXISTING COLUMN
 - DENOTES EXISTING COLUMNS TO BE STRENGTHENED USING APPROPRIATE STRENGTHENING SOLUTION. TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 28 FOR THE CURRENT STRENGTHENING PROPOSALS: CARBON FIBRE, CONCRETE JACKETING AND STEEL SECTIONS
 - DENOTES AREAS WITH RESTRICTED ACCESS. ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED
 - DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

WORK IN PROGRESS (COSTING)
THE INFORMATION ON THIS DRAWING IS AN OPTIMISED COST SOLUTION BASED UPON EXTERNAL INFORMATION AS OF 03.03.2025. IT MAY BE SUBJECT TO CHANGE BASED UPON EXTERNAL INFLUENCES THROUGH DESIGN DEVELOPMENT SUCH AS CLIENT BRIEF & SCOPE CHANGES, SERVICES / B/M/C, SUB-CONTRACTOR REQUIREMENTS ETC. THE INFORMATION MUST THEREFORE BE USED WITH A SUITABLE CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING, COST MANAGEMENT, N/A MEASUREMENT ETC.

PROJ	STAGE 2	28.03.25	RM	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG

Rev: Description: Date: By: Chd

Curtins
Merchant Exchange, 17-19 Whitehall Street West, Manchester, M1 5WG
0161 236 2384
cortins@curtins.com
www.curtins.com

Status: STAGE 2

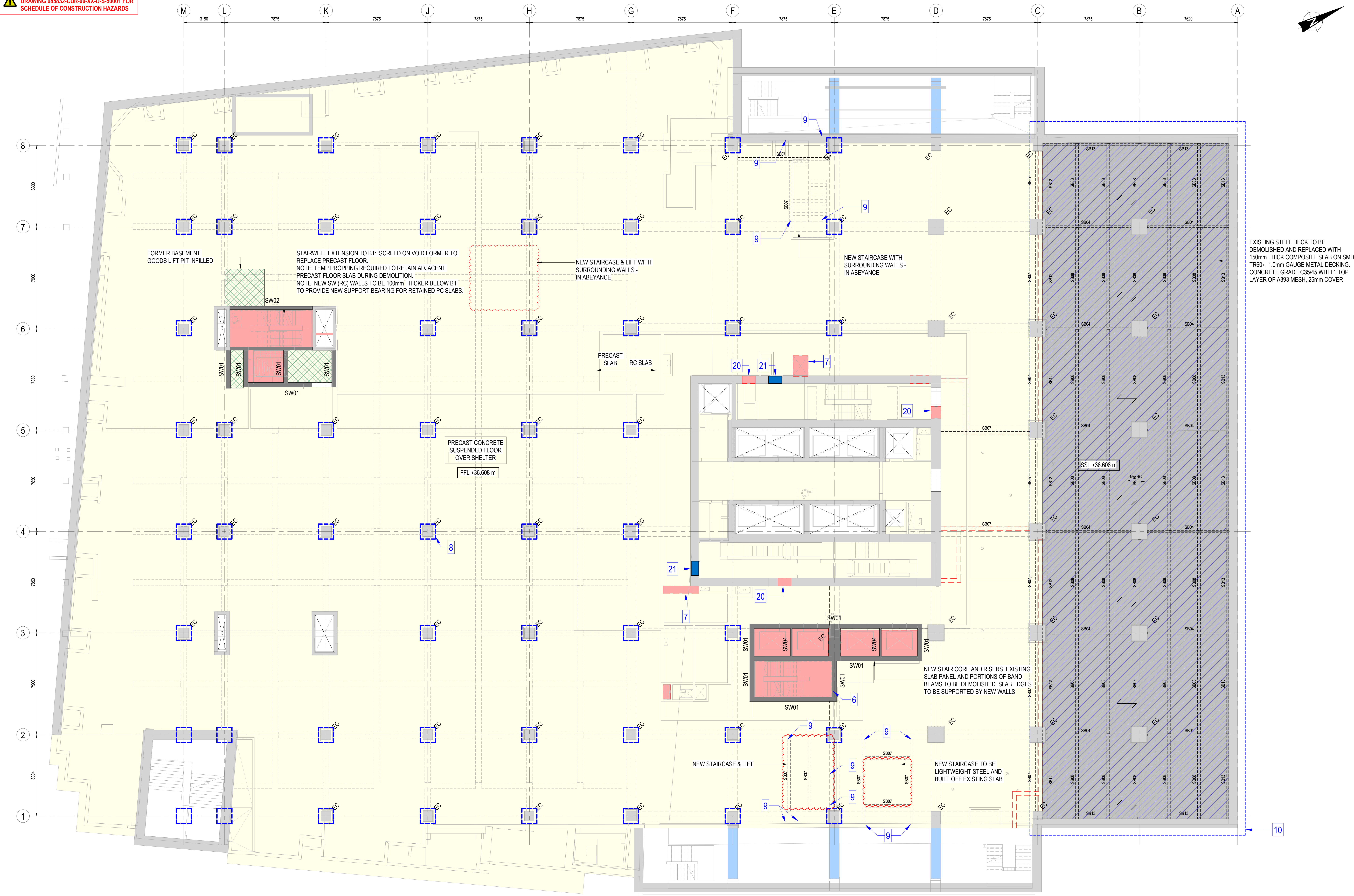
Project: PROJECT SAM

Org Title: BASEMENT LEVEL B1 LOWER
GENERAL ARRANGEMENT

Drawn By	Designed By	Checked By
GP	KG	MA
Date	MAR 25	Scale @ A3
Project No - Originator - Function - Spatial - Form - Discipline - Number	As Indicated	Revision:

085832 - CUR - 00 - B1 - D - S - 20004 P02

085832-0160-00-22-AS-S-00010



PLAN ON BASEMENT LEVEL B1
SCALE: 1:100

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
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- FOR GENERAL NOTES REFER TO DRAWING.

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

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PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE - CONTRACTORS PREFERRED CONSTRUCTION MAY IMPACT STEELWORK ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

STRUCTURAL RC COLUMN SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/B60	250 kg/m ²

STRUCTURAL FRAMING SCHEDULE			
REF	SIZE	STRUCTURAL MATERIAL	
SB01	UB305x165x40	S355	
SB02	UB305x165x54	S355	
SB03	UB356x171x67	S355	
SB04	UB457x152x60	S355	
SB05	UB457x191x82	S355	
SB06	UB533x210x62	S355	
SB07	UB533x210x122	S355	
SB08	UB610x229x101	S355	
SB09	UC305x305x118	S355	
SB10	SHS150x150x12.5	S355	
SB11	PF430x100x64	S355	
SB12	PF430x100x49	S355	
SB13	L150x150x12	S355	
SB14	UB203x133x30	S355	
SB15	UC254x254x73	S355	
SB16	UC203x203x60	S355	

KEY

- EXISTING RC SLAB
- EXISTING RC WALLS AND COLUMNS
- DEMOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
- PROPOSED PRECAST SLAB
- PROPOSED COMPOSITE METAL DECKING
- PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER
- NEW MASONRY WALL
- NEW CONCRETE INFILL
- EXISTING COLUMN
- DEMOTES EXISTING COLUMNS TO BE STRENGTHENED USING APPROPRIATE STRENGTHENING SOLUTION. TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 28 FOR THE CURRENT STRENGTHENING PROPOSALS. CARBON FIBRE, CONCRETE JACKETING AND STEEL SECTIONS
- DEMOTES AREAS WITH RESTRICTED ACCESS. ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED
- DEMOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

WORK IN PROGRESS (COSTING)
THE INFORMATION ON THIS DRAWING IS AN OPTIMISED COST SOLUTION BASED UPON EXTERNAL INFORMATION AS OF 03.03.2025. IT MAY BE SUBJECT TO CHANGE BASED UPON EXTERNAL INFLUENCES THROUGH DESIGN DEVELOPMENT SUCH AS CLIENT BRIEF & SCOPE CHANGES, SERVICES / B/M/C, SUB-CONTRACTOR REQUIREMENTS ETC. THE INFORMATION MUST THEREFORE BE USED WITH A SUITABLE CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING, COST MANAGEMENT, N/A MEASUREMENT ETC.

Rev	Stage	Description	Date	By	Chd
P02	STAGE 2		28.03.25	SW	KG
P01	DRAFT STAGE 2		14.03.25	SW	KG

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Status:

Project:

Project SAM

Org Title:

BASEMENT LEVEL B1
GENERAL ARRANGEMENT

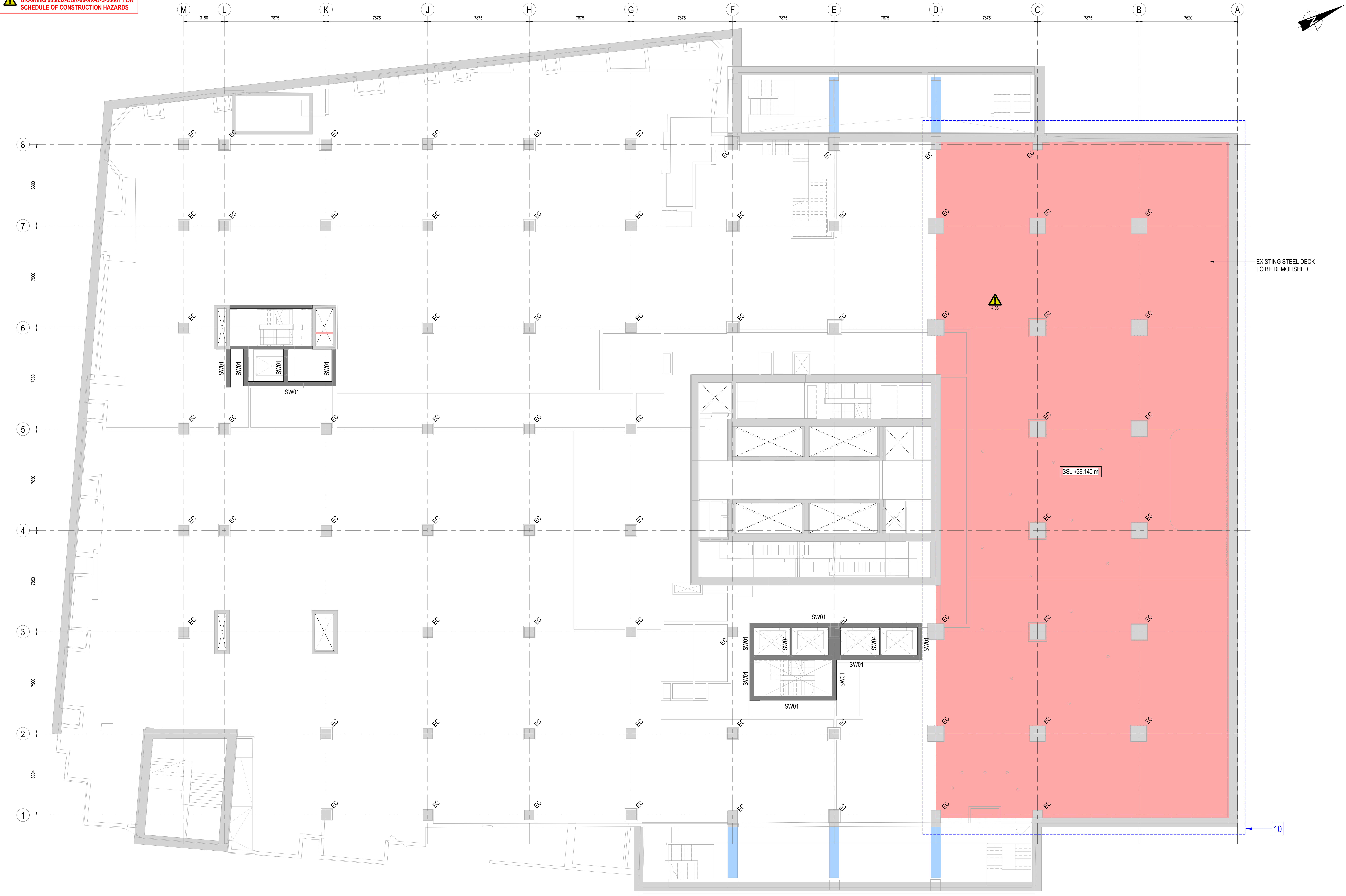
Drawn By	Designed By	Checked By
GP	KG	MA

Date	Scale
MAR 25	As Indicated

Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision:
085832 - CUR - 00 - B1 - D - S - 20005	P02

085832-CUR-00-B1-D-S-20005

REFERENCE MUST BE MADE TO CURTINS
DRAWING 085832-CUR-00-XX-D-S-50001 FOR
SCHEDULE OF CONSTRUCTION HAZARDS



PLAN ON BASEMENT LEVEL B1 UPPER
SCALE: 1:100

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE COLUMNS ARE EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK AND BUILDERS WORK PENETRATIONS THROUGH SLAB. FINAL SIZES AND SETTING OUT TBC BY THE I&E ENGINEER AND ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK TO SUPPORT RISER INFILL FLOOR SECTIONS

ALL CONNECTIONS, INCLUDING SPLICES, BASEPLATES AND HD BOLTS, SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR FROM THE LOADS, MOMENTS AND SHEARS SUPPLIED BY THE ENGINEER.

PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE - CONTRACTORS PREFERRED CONSTRUCTION MAY IMPACT STEELWORK ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

STRUCTURAL RC COLUMN SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/60	250 kg/m ²

- KEY
- EXISTING RC SLAB
 - EXISTING RC WALLS AND COLUMNS
 - DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
 - PROPOSED PRECAST SLAB
 - PROPOSED COMPOSITE METAL DECKING
 - PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER
 - NEW MASONRY WALL
 - NEW CONCRETE INFILL
 - EXISTING COLUMN
 - DENOTES EXISTING COLUMNS TO BE STRENGTHENED USING APPROPRIATE STRENGTHENING SOLUTION. TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 28 FOR THE CURRENT STRENGTHENING PROPOSALS. CARBON FIBRE, CONCRETE JACKETING AND STEEL SECTIONS
 - DENOTES AREAS WITH RESTRICTED ACCESS. ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED
 - DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

WORK IN PROGRESS (COSTING)
THE INFORMATION ON THIS DRAWING IS AN OPTIMISED COST SOLUTION BASED UPON EXTERNAL INFORMATION AS OF 03.03.2025. IT MAY BE SUBJECT TO CHANGE BASED UPON EXTERNAL INFLUENCES THROUGH DESIGN DEVELOPMENT SUCH AS CLIENT BRIEF & SCOPE CHANGES, SERVICES / B/M/C, SUB-CONTRACTOR REQUIREMENTS ETC. THE INFORMATION MUST THEREFORE BE USED WITH A SUITABLE CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING, COST MANAGEMENT, N/A MEASUREMENT ETC.

P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chd:

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Status: STAGE 2

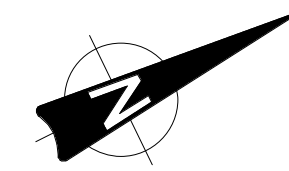
Project: PROJECT SAM

Org Title: BASEMENT LEVEL B1 UPPER
GENERAL ARRANGEMENT

Drawn By	Designed By	Checked By
GP	KG	MA
Date	MAR 25	Scale @ A3
Project No - Originator - Function - Spatial - Form - Discipline - Number	As Indicated	Revision:

085832 - CUR - 00 - B1 - D - S - 20006 P02

085832-CUR-00-XX-D-S-50001



GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.

ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE COLUMNS ARE EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK AND BUILDERS WORK PENETRATIONS THROUGH SLAB. FINAL SIZES AND SETTING OUT TBC BY THE I/E ENGINEER AND ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK TO SUPPORT RISER INFILL FLOOR SECTIONS

ALL CONNECTIONS, INCLUDING SPLICES, BASEPLATES AND HD BOLTS, SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR FROM THE LOADS, MOMENTS AND SHEARS SUPPLIED BY THE ENGINEER

PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE - CONTRACTORS PREFERRED CONSTRUCTION MAY IMPACT STEELWORK ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

STRUCTURAL RC COLUMN SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/60	250 kg/m ²

- NOTES REGARDING NEW COLUMNS:
- NEW COLUMNS ARE TO BE FOUNDED ON TO THE EXISTING RAFT FOOTING. SUBJECT TO GEOTECHNICAL INVESTIGATIONS TO PROVE BEARING CAPACITY OF UNDERLYING ROCK
 - NEW COLUMNS WILL REQUIRE JACKING AGAINST THE B2 ROOF SLAB IN ORDER TO ENSURE THE LOADS ARE ADEQUATELY TRANSFERRED
 - IT MAY BE POSSIBLE TO REMOVE THE NEED FOR SOME NEW COLUMNS - TO BE INVESTIGATED AND CONFIRMED

KEY	
	EXISTING RC SLAB
	EXISTING RC WALLS AND COLUMNS
	DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS
	PROPOSED PRECAST SLAB
	PROPOSED COMPOSITE METAL DECKING
	PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER
	NEW MASONRY WALL
	NEW CONCRETE INFILL
	EXISTING COLUMN
	DENOTES EXISTING COLUMNS TO BE STRENGTHENED USING APPROPRIATE STRENGTHENING SOLUTION. TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 28 FOR THE CURRENT STRENGTHENING PROPOSALS: CARBON FIBRE, CONCRETE JACKETING AND STEEL SECTIONS
	DENOTES AREAS WITH RESTRICTED ACCESS. ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED
	DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28

WORK IN PROGRESS (COSTING)
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PROJ	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:

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enquiries@curtins.com
www.curtins.com

Status:

STAGE 2

Project:

PROJECT SAM

Org Title:

BASEMENT LEVEL B2
GENERAL ARRANGEMENT

Drawn By: GP

Designed By: KG

Checked By: MA

Date: MAR 25

Scale: As Indicated

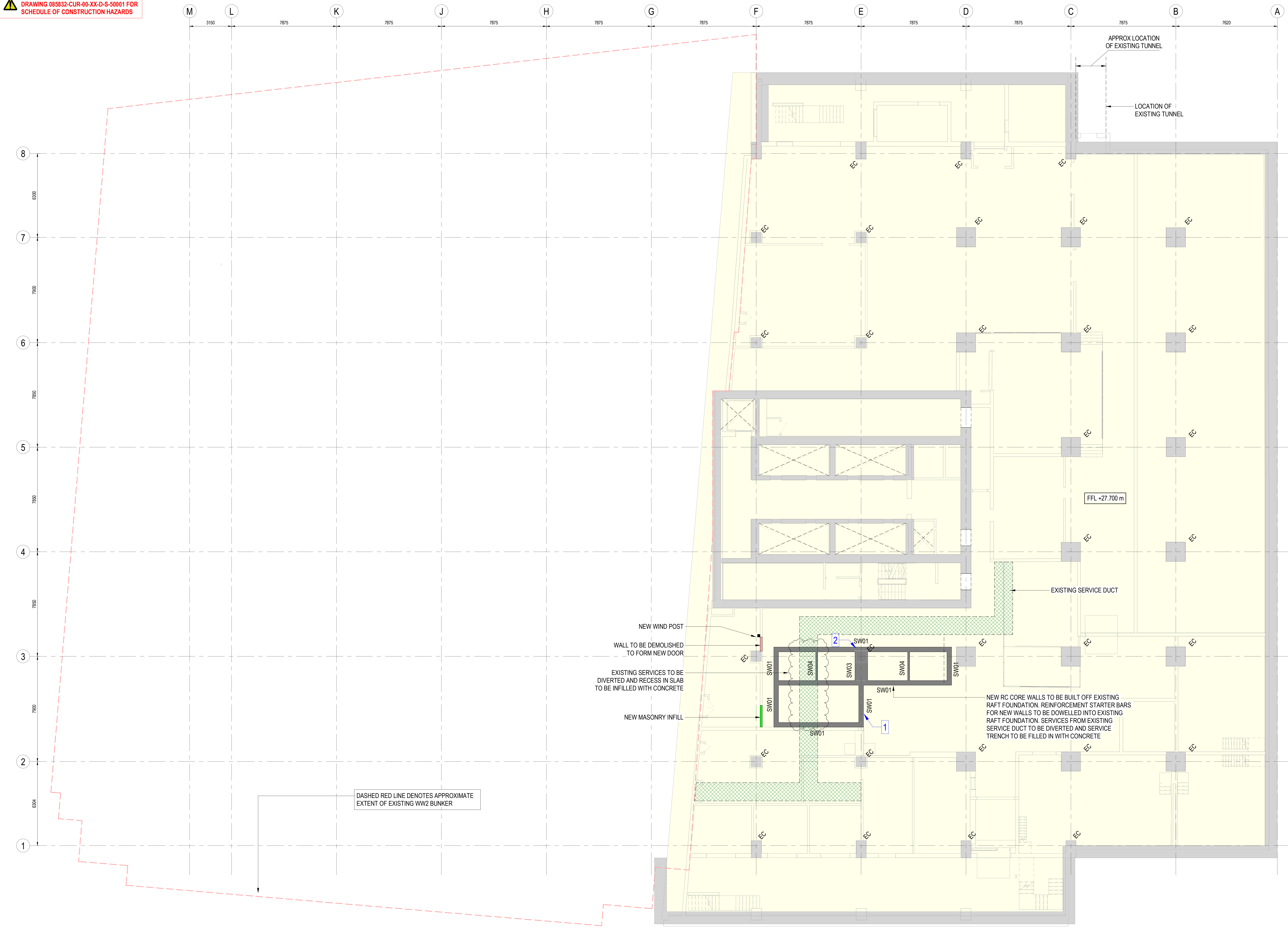
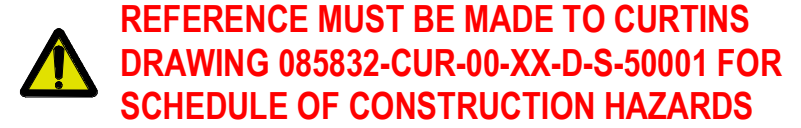
Project No - Originator - Function - Spatial - Form - Discipline - Number

Revision:

085832 - CUR - 00 - B2 - D - S - 20003

P02

085832-CUR-00-B2-D-S-20003



PLAN ON BASEMENT LEVEL B3
SCALE: 1 : 100

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
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ALLOWANCES SHOULD BE MADE FOR FIRE PROTECTION TO STRUCTURAL STEEL ELEMENTS. REFER TO FIRE ENGINEER'S REPORT FOR CONFIRMATION OF RATING

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE COLUMNS ARE EXPOSED, CONNECTION AESTHETICS TO BE
CONSIDERED AND DETAILS AGREED WITH ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK AND BUILDERS
WORK PENETRATIONS THROUGH SLAB. FINAL SIZES AND SETTING OUT TBC
BY THE M+E ENGINEER AND ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK TO SUPPORT RISER INFILL FLOOR SECTIONS

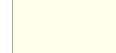
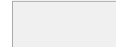
ALL CONNECTIONS, INCLUDING SPLICES, BASEPLATES AND HD BOLTS, SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR FROM THE LOADS, MOMENTS AND SHEARS SUPPLIED BY THE ENGINEER

PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE -
CONTRACTOR'S PREFERRED CONSTRUCTION MAY IMPACT STEELWORK
ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ³
SW02	250mm THICK RC	RC32/40	200 kg/m ³
SW03	950mm THICK RC	RC32/40	200 kg/m ³
SW04	150mm THICK RC	RC32/40	200 kg/m ³
SW05	225mm THICK RC	RC32/40	200 kg/m ³

STRUCTURAL RC COLUMN SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/B60	250 kg/m ³

KEY

- | | |
|---|--|
|  | EXISTING RC SLAB |
|  | EXISTING RC WALLS AND COLUMNS |
|  | DENOTES STRUCTURE TO BE DEMOLISHED. EXTENT OF VOIDS & RISER PENETRATIONS IN SLAB & NEW STRENGTHENING IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DEMOLITION DRAWINGS |
|  | PROPOSED PRECAST SLAB |
|  | PROPOSED COMPOSITE METAL DECKING |
|  | PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER |
|  | NEW MASONRY WALL |
|  | NEW CONCRETE INFILL |
|  | EXISTING COLUMN |
|  | DENOTES EXISTING COLUMNS TO BE STRENGTHENED USING A PROPOSED STRENGTHENING SOLUTION, TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 28 FOR THE CURRENT STRENGTHENING PROPOSAL'S CARBON FIBRE, CONCRETE JACKING AND STEEL SECTIONS |
|  | DENOTES AREAS WITH RESTRICTED ACCESS. ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED |
|  | DENOTES DETAIL REFERENCE FOR DETAILS REFER TO DRAWINGS SERIES 28 |

WORK IN PROGRESS (COSTING)
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DESIGN DEVELOPMENT SUCH AS CLIENT BRIEF & SCOPE CHANGES,
SERVICES / B/MC, SUB-CONTRACTOR REQUIREMENTS ETC. THE
INFORMATION MUST THEREFORE BE USED WITH A SUITABLE CONTINGENT
APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING, COST
MANAGEMENT, N/A MEASUREMENT ETC.

P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:

Curtins

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Status:

STAGE 2

Project

PROJECT SAM

Org Title

BASEMENT LEVEL B3
GENERAL ARRANGEMENT

Drawn By GP	Designed By KG	Checked By MA
	Date MAR '25	Scales @ A0 As indicated

Project No - Originator - Function - Special - Form - Discipline - Number	Revision:
085832 - CUR - 00 - B3 - D - S - 20002	P02

P02

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.

CONTRACTOR SHOULD MAKE ALLOWANCE FOR SITE MEASURE TO CONFIRM ALL DIMENSIONS AT INTERFACES WITH EXISTING CONSTRAINTS

WHERE COLUMNS ARE EXPOSED, CONNECTION AESTHETICS TO BE CONSIDERED AND DETAILS AGREED WITH ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK AND BUILDERS
WORK PENETRATIONS THROUGH SLAB. FINAL SIZES AND SETTING OUT TBC
BY THE M+E ENGINEER AND ARCHITECT

ALLOWANCE TO BE MADE FOR SECONDARY STEELWORK TO SUPPORT RISER INFILL FLOOR SECTIONS

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PROPOSED STEELWORK DEPENDANT UPON CONSTRUCTION SEQUENCE -
CONTRACTOR'S PREFERRED CONSTRUCTION MAY IMPACT STEELWORK
ARRANGEMENTS AND HEIGHTS

STRUCTURAL WALL SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
SW01	350mm THICK RC	RC32/40	200 kg/m ²
SW02	250mm THICK RC	RC32/40	200 kg/m ²
SW03	950mm THICK RC	RC32/40	200 kg/m ²
SW04	150mm THICK RC	RC32/40	200 kg/m ²
SW05	225mm THICK RC	RC32/40	200 kg/m ²

STRUCTURAL RC COLUMN SCHEDULE			
REF	SIZE	GRADE	REINFORCEMENT ESTIMATE
RC01	1000 x 1000 RC	C50/60	250 kg/m ³

	EXISTING RC SLAB
	EXISTING RC WALLS AND COLUMNS
VOIDS STRUCTURE TO BE DEMOLISHED EXIST OF VENOTES A RISER PENETRATIONS IN SLABS & NEW OPENINGS IN RC WALLS SHOWN INDICATIVELY ONLY. FOR EXACT LOCATION, LEVEL & SETTING OUT OF OPENINGS AND PENETRATIONS REFER TO ARCHITECTS DETAILING DRAWINGS	
	PROPOSED PRECAST SLAB
	PROPOSED COMPOSITE METAL DECKING
	PROPOSED FLOATING CONCRETE SCREED ON VOID FORMER
	NEW MASONRY WALL
	NEW CONCRETE INFILL
	EXISTING COLUMN
DESIGNING EXISTING COLUMNS TO BE STRENGTHENED USING APPROPRIATE STRENGTHENING SOLUTION, TO BE DEVELOPED AT DETAILED DESIGN STAGE. REFER TO DRAWING SERIES 20 FOR THE CURRENT STRENGTHENING PROPOSALS, CARBON FIBRE CONCRETE JACKETING AND STEEL SECTIONS	
	DESIGNATES AREAS WITH RESTRICTED ACCESS ARRANGEMENT OF EXISTING STRUCTURE IN THESE AREAS TO BE CONFIRMED
	DESIGNATES DETAIL REFERENCE FOR DETAILS REFER TO DRAWING SERIES 28

WORK IN PROGRESS (COSTING)
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P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chk:

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0161 236 2394
manchester@cutlins.com
www.cutlins.com

Status:	
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STAGE 2

Project

PROJECT SAM

Org Title	
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MEZZANINE LEVEL
GENERAL ARRANGEMENT

Drawn By GP	Designed By KG	Checked By MA
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		Date			Scores @ A0	
		MAR '25			As indicated	
Project No.	Activities	Completed	On-going	Planned	Marking	Remarks

085832 - CUR - 00 - M0 - D - S - 20010	P02
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Revision: P02



SCALE: 1 : 100

GENERAL DRAWING NOTES & SCOPE OF CURTINS DESIGN

1. THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, MEP ENGINEERS AND SPECIALISTS' DRAWINGS INCLUDING HEALTH AND SAFETY PRE-CONSTRUCTION INFORMATION, HEALTH AND SAFETY RISK ASSESSMENTS, CDM CO-ORDINATOR RISK REGISTER PLUS THE SPECIFICATIONS.

2. THE EXECUTION CLASS FOR THE PROJECT IS EXECUTION CLASS 2. ONLY SUB-CONTRACTORS WITH CE MARKING ACCREDITATION SHOULD BE APPOINTED.

3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS ARE RELATED TO CENTRE-LINES, UNLESS NOTED OTHERWISE EXCEPT IN THE CASE OF CHANNELS AND ANGLES WHERE DIMENSIONS RELATE TO CHANNEL AND ANGLE OUTSIDE FACES.

4. THE FOLLOWING ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS:

• PLANT PLINTHS AND UPSTANDS.

• LOCATION OF ANY CAST-IN SERVICES.

• CLADDING CONNECTIONS.

• DPM's, WATERPROOFING & INSULATION REQUIREMENTS (REFER TO ARCHITECTS DETAILS).

REFER TO THE RELEVANT ARCHITECTURAL, MEP SERVICES OR SUB-CONTRACTOR DRAWINGS FOR INFORMATION.

5. REFER TO ARCHITECTS AND BUILDERS WORK DRAWINGS FOR ALL HOLES IN THE FLOOR UP TO 300mm x 300mm. ALL BUILDERS WORK HOLES THROUGH THE STRUCTURAL ELEMENTS OF ALL SIZES TO BE AGREED WITH STRUCTURAL ENGINEER BEFORE BEING FORMED.

6. THE STRUCTURE IS DESIGNED FOR THE PERMANENT CONDITION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ITS TEMPORARY CONDITION AND ANY TEMPORARY WORKS REQUIRED DURING CONSTRUCTION. IF THE CONTRACTOR WISHES TO USE THE PERMANENT STRUCTURE AS TEMPORARY WORKS (E.G. CRANE SUPPORT) HE MUST DEMONSTRATE WITH DRAWINGS AND CALCULATIONS THAT THIS WILL NOT AFFECT THE FUTURE PERFORMANCE OF THE PERMANENT WORKS.

7. THE INFORMATION PROVIDED IS CONSIDERED TO BE DEVELOPED TO RIBA STAGE 2. THE CONSEQUENCE OF THIS IS THAT AS THE DESIGN IS DEVELOPED AND FULLY CO-ORDINATED WITH THE PROJECT TEAM. THE CONSTRUCTION DRAWINGS PRODUCED MAY CHANGE TO TENDER INFORMATION FROM WHICH THE BILL OF QUANTITIES WILL BE PRODUCED. THERE ARE ALSO FURTHER INVESTIGATION WORKS & COORDINATION TO ENABLE FINALISATION OF CONSTRUCTION INFORMATION.

8. THEREFORE SUFFICIENT CONTINGENCY ALLOWANCES SHOULD BE MADE WITHIN THE OVERALL PROJECT BUDGET FOR CHANGES TO THE CONTRACT WORKS ARISING FROM FINALISING THE DESIGN WITH THE OVERALL PROJECT TEAM AND FINALISING CONNECTIVITY INFORMATION. WE WOULD NORMALLY EXPECT THIS OVERALL CONTINGENCY TO BE IN THE ORDER OF 15%.

LOADINGS

1. FOR IMPOSED LOADS AND ANTICIPATED SUPER DEAD LOADS, REFER TO STRUCTURAL PERFORMANCE SPECIFICATION / LOADING PLANS.

2. THE CONTRACTOR SHALL ENSURE THAT TEMPORARY LOADS IMPOSED ONTO NEW STRUCTURES SHALL BE LESS THAN THOSE PERMANENT DISTRIBUTED LOADS FOR WHICH IT HAS BEEN DESIGNED.

3. TEMPORARY CONSTRUCTION LOADING ON NEW STEEL FRAME / COMPOSITE METAL DECK SLAB HAS BEEN DESIGNED FOR 0.75kN/m²

CONCRETE GENERAL

1. CURTINS CONCRETE SPECIFICATION PENDING (TO BE PRODUCED IN RIBA STAGE 4).

2. CONCRETE GRADES (NEW ELEMENTS): - REFER TO CONCRETE SPECIFICATION. IN SUMMARY:

• NEW FOUNDATIONS C32/40

• BASEMENT COLUMNS C50/60

• CORE WALLS/ LIFT SHAFTS C32/40

• CONCRETE JACKET C32/40

• COMPOSITE METAL DECK SLABS C30/37

3. ALL FOUNDATIONS MUST BE CAST 7 DAYS PRIOR TO ERECTION OF STEELWORK/ MASONRY WALLS.

4. THE MINIMUM LAP LENGTHS TO BE AS FOLLOWS:

• A193 MESH = 300mm

• A252 MESH = 400mm

• A393 MESH = 500mm

• LAPS TO LOSE BAR REINFORCEMENT = 50 X THE SMALLER BAR DIAMETER.

• ALL MESH TO BE PROVIDED WITH FLYING ENDS TO ALLOW REINFORCEMENT LAP IN PLANE.

5. CONCRETE COVER: REFER TO CONCRETE SPECIFICATION. UNO COVER TO OUTER-MOST REINFORCEMENT TO BE:

• FOUNDATIONS ON FORMWORK / BLINDING= 50mm BOTTOM, SIDE & TOP.

• RETAINING WALLS = 40mm ALL FACES.

• CONCRETE CAST AGAINST SOIL (NON-AGGRESSIVE) = 75mm.

• SUPERSTRUCTURE COLUMNS = 40mm (FIRE REQUIREMENTS)

• SUPERSTRUCTURE CORE WALLS = 40mm (FIRE REQUIREMENTS).

6. REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF REBATES, CHAMFERS, ETC TO EXPOSED CONCRETE CONSTRUCTION.

7. REINFORCEMENT ALLOWANCES:

• CONCRETE JACKETS: TBC

• PAD FOUNDATIONS: 150kg/m3

• RC CORE WALLS: 275 kg/m3

SUB-STRUCTURE TO LANDSCAPING / CIVIL DRAINAGE

1. REFER TO GROUND INVESTIGATION REPORT & CDM REGISTER REGARDING SITE REMEDIATION REQUIREMENTS & HAZARDS.

2. ANY NEW DRAIN RUNS UNDER THE GROUND/ BASEMENT SLAB ARE TO BE BACKFILLED IN ACCORDANCE WITH THE CIVIL SPECIFICATION.

3. 1.

4. DEPTH OF FOUNDATIONS TO BE A MINIMUM OF 200mm INTO SUITABLE FORMATION IN NATURAL GROUND. THE NATURAL GROUND IS EXPECTED TO COMPRISE OF WEATHERED SANDSTONE. IF EXCESSIVE EXCAVATION IS REQUIRED TO FIND NATURAL GROUND, MASS CONCRETE (UNREINFORCED) MAY BE CAST PRIOR TO SPECIFIED RC FOUNDATIONS.

5. THE PRINCIPAL CONTRACTOR / GROUNDWORKS CONTRACTOR IS RESPONSIBLE FOR THE PROVISION & MAINTENANCE OF ALL TEMPORARY WORKS INCLUDING TEMPORARY EXCAVATION SUPPORT, WORKING PLATFORMS, TEMPORARY DRAINAGE & PROTECTION OF FORMATION IN RELATION TO PERMANENT WORKS.

FOR EXISTING BURIED MEP SERVICES/ UTILITIES, REFER TO PROJECT UTILITY SURVEY DRAWINGS

CONTRACTOR METHOD STATEMENTS

- AS A MINIMUM, METHOD STATEMENTS SHOULD BE PREPARED FOR THE FOLLOWING SITE ACTIVITIES. THIS LIST IS NOT EXHAUSTIVE.

1. DEMOLITION OF EXISTING STRUCTURES.

2. EXCAVATION BELOW GROUND.

3. ERECTION OF THE STEEL FRAME STRUCTURE.

4. TOWER RECLADDING SCAFFOLDING.

5. CRANEAGE.

6. TEMPORARY WORKS GENERALLY.

CONTRACTOR DESIGN PORTIONS & PROPRIETARY PRODUCTS

1. THE FOLLOWING IS A LIST OF CDP ITEMS WITH RESPECT TO STRUCTURAL ASPECTS OF THE PROJECT:

2. STEELWORK CONNECTIONS & STIFFENERS.

• PRECAST CONCRETE STAIRCASES, FLOOR SLABS & EXTERNAL STEPS.

• ARCHITECTURAL METALWORK INCLUDING STEEL STAIRS, BALUSTRADES, HANDRAILS ETC.

• STEEL SUPPORT FRAMES TO MEP PLANT (BIGFOOT OR SIMILAR).

• MAINTENANCE WALKWAYS & ACCESS LADDERS.

• CLADDING AND ASSOCIATED FIXINGS (EXCLUDES MASONRY).

• PROPRIETARY MASONRY SUPPORT SYSTEMS (ANCON BRACKETS OR SIMILAR APPROVED).

• PROPRIETARY COMPOSITE SLAB METAL DECKING & PROFILED METAL ROOF DECKING.

• ARCHITECTURAL CURTAIN WALLING, GLAZING AND WINDOW SYSTEMS INCLUDING STRUCTURAL FRAMING AND ALL ASSOCIATED CONNECTIONS.

• PROPRIETARY THIN-GAUGE STRUCTURAL FRAMING SYSTEM I.E. PURLINS, SFS OR SIMILAR.

• BRISE SOLEILS.

• PROPRIETARY SUSPENDED CEILING AND MEP SERVICES SUPPORT FRAMES/ FIXINGS (UNISTRUT OR SIMILAR).

• PAINT/ CORROSION PROTECTION BY STEELWORK FABRICATOR OR ARCHITECT.

• MEP VERTICAL RISER GRATING AND ASSOCIATED STEELWORK (FABRICATOR OR PROPRIETARY SUPPLIER DESIGNED).

2. ALL PROPRIETARY PRODUCTS ARE TO BE USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S DETAILS AND REQUIREMENTS.

PRIMARY STEELWORK

1. REFER TO CURTINS STEELWORK SPECIFICATION AT STAGE 4.

2. ALL STEELWORK TO BE IN ACCORDANCE WITH BS-EN-1993 & THE CURTINS STEELWORK SPECIFICATION.

3. STEEL SUSTAINABLE SOURCING: FOR EMBEDDED CARBON SOURCING REQUIREMENTS SEE STEEL MEMBER SCHEDULES AND CURTINS STEEL SPECIFICATION.

4. STEEL SUB-GRADES:

-UNO STEELWORK TO BE GRADE S355-JR: SEE BELOW & MEMBER SCHEDULES / GA ANNOTATIONS FOR EXCEPTIONS.

-FLAT X-BRACING (ROOFTOP PLANT SCREENS): S275-JR.

-EXTERNAL STEEL PLANT SCREENS ETC.: S355J2 (THERMAL ISOLATION STRATEGY: TO ARCHITECT'S DETAILS: FOR INITIAL COSTING ASSUME 25MM FARRAT TBF COLUMN BASEPLATES AT LEVEL 8.

5. ALL COLUMNS / BEAMS TO BE ASSUMED CENTRALLY LOCATED ON INTERSECTIONS OF GRIDS UNO.

6. CONTRACTOR NOTES FOR PRICING:

-STEELWORK SUB-CONTRACTOR TO MAKE SUITABLE % ALLOWANCE FOR CONNECTIONS INCLUDING SUFFICIENT QUANTITIES FOR SPLICES.

-FOR STAGE 2 PRICING, A CONTINGENCY OF 10% OF THE GROSS HOT ROLLED STEEL TONNAGE SHOULD BE MADE FOR DESIGN DEVELOPMENT / UNDESIGNED ELEMENTS OF STEEL WHICH MAY BE REQUIRED AS DETAILED DESIGN OF THE BUILDING IS DEVELOPED E.G.

• FACADE RESTRAINT GOAL FRAMES.

• LIFTING BEAMS.

• MEP SERVICE RISER STEEL (CONTRACTOR DESIGNED).

• SECONDARY M&E RISER TRIMMING SUPPORT STEEL.

7. THE CURTINS DESIGN DRAWINGS EXCLUDE STEEL ITEMS WHICH SHOULD THE RESPONSIBILITY OF THE RELEVANT SUB-CONTRACTOR. REFER TO CDP LIST ABOVE FOR STEEL ITEMS.
- FABRICATION / WELDING
8. CIRCULAR HOLLOW SECTIONS ARE TO HAVE NO VISIBLE FABRICATION SEAMS & SEALED.

9. WHERE CLOSED SECTIONS ARE DRILLED TO FORM CONNECTIONS TO OTHER STEEL OR BUILDING ELEMENTS, THE CONNECTION SHALL BE DETAILED TO ENSURE THE HOLE IS SEALED IN A MANNER TO PROVIDE ADEQUATE CORROSION PROTECTION TO THE INSIDE OF THE CLOSED SECTION AND PROTECTION AGAINST BI-METALLIC CORROSION AS REQUIRED.
- ERECTION STABILITY / TOLERANCES
10. PHASING OF THE ERECTION OF THE STEEL FRAME AND THE REQUIREMENTS FOR TEMPORARY STABILITY BRACING ON A DAY TO DAY BASIS DURING ERECTION WORKS ARE MATTERS TO BE CO-ORDINATED BY THE STEELWORK SUB-CONTRACTOR & MAIN CONTRACTOR TO SUIT ALL ISSUES ASSOCIATED WITH THE OVERALL PROGRAMME. THE STEELWORK FABRICATOR IS TO PROVIDE ALL TEMPORARY LATERAL BRACING DEEMED NECESSARY TO MAINTAIN STABILITY DURING ERECTION.

11. NEW STRUCTURES ARE TO BE DESIGNED IN ACCORDANCE WITH BUILDING REGULATIONS TO LIMIT DISPROPORTIONATE COLLAPSE AND IS CATEGORISED AS A STRUCTURE CLASS 2B. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF STEEL CONNECTIONS WHICH ARE TO BE DESIGNED TO SATISFY DISPROPORTIONATE COLLAPSE REQUIREMENTS. LOADS TO BE ADVISED.
- BASPLATES
12. COLUMN BASEPLATES (LEVEL 07) & THEIR FIXINGS (RESIN FIXED) ARE TO BE DESIGNED BY THE FABRICATOR AS WOULD BE EXPECTED OF A NEW-BUILD FRAME (HD BOLT BASEPLATE).

13. ALL BASEPLATES TO BE GROUTED USING HIGH STRENGTH NON-SHRINK GROUT AFTER STEEL HAS BEEN LINED AND LEVELLED IN ACCORDANCE WITH THE CURTINS CONSULTING LTD SPECIFICATION.

14. BEARING STRESS BENEATH BASEPLATES NOT TO EXCEED 12N/mm².
- ENCASEMENT & PROTECTION
15. ANY BELOW-GROUND STEELWORK IS TO BE ENCASED IN MINIMUM 75mm CONCRETE.

16. ALL NEW STEELWORK TO BE SHOT BLASTED TO STANDARD SA 2.5 PRIOR TO PAINTING.

17. FOR THROUGH-DECK STUD WELDING, TOP FLANGES OF SUPPORT BEAMS MUST BE CLEANED AND FREE FROM PAINT.

18. ALL COLUMNS DESIGNATED AS "WIND POSTS" TO BE FABRICATED WITH SLOTTED HEAD CONNECTION ALLOWING APPROX +/-20mm FREE VERTICAL MOVEMENT OF MEMBER/ SLAB ABOVE.

19. ALL BEAMS OVER 10m LENGTH TO BE PRE-CAMBERED FOR DEAD LOAD DEFLECTION. ALLOWANCE OF UP TO 45mm OR 80% OF TOTAL DEAD LOAD DEFLECTION TO BE MADE. FINAL DETAILS TO BE CONFIRMED.
- CONNECTION LOADS
20. FOR BEAM END REACTIONS (ULS SHEAR), REFER TO STEELWORK LOAD PLANS PROVIDED AT STAGE 5. FOR STAGE 2 COSTING ASSUME 25% OF MEMBER SHEAR CAPACITY.

21. FOR MOMENT / TORSION FIXITY REFER TO MEMBERS IDENTIFIED WITH TRIANGLES. FOR STAGE 2 COSTING, ASSUME APPLIED MOMENT OF 25% MEMBER MOMENT CAPACITY.

22. ROBUSTNESS TYING: TO SATISFY EC-3, ALL STEEL CONNECTIONS TO BE DESIGNED TO RESIST A TENSILE FORCE PROPORTIONAL TO THEIR VERTICAL SHEAR LOAD. FOR STAGE 2 COSTING ASSUME TENSILE LOAD EQUAL TO 25% OF MEMBER SHEAR CAPACITY (AND A MINIMUM ULTIMATE SHEAR AND TENSILE CAPACITY OF ±75kN UNO).
- CONTRACTOR DESIGN PORTIONS & PROPRIETARY PRODUCTS
1. THE FOLLOWING IS A LIST OF CDP ITEMS WITH RESPECT TO STRUCTURAL ASPECTS OF THE PROJECT:

2. STEELWORK CONNECTIONS & STIFFENERS.

• PRECAST CONCRETE STAIRCASES, FLOOR SLABS & EXTERNAL STEPS.

• ARCHITECTURAL METALWORK INCLUDING STEEL STAIRS, BALUSTRADES, HANDRAILS ETC.

• STEEL SUPPORT FRAMES TO MEP PLANT (BIGFOOT OR SIMILAR).

• MAINTENANCE WALKWAYS & ACCESS LADDERS.

• CLADDING AND ASSOCIATED FIXINGS (EXCLUDES MASONRY).

• PROPRIETARY MASONRY SUPPORT SYSTEMS (ANCON BRACKETS OR SIMILAR APPROVED).

• PROPRIETARY COMPOSITE SLAB METAL DECKING & PROFILED METAL ROOF DECKING.

• ARCHITECTURAL CURTAIN WALLING, GLAZING AND WINDOW SYSTEMS INCLUDING STRUCTURAL FRAMING AND ALL ASSOCIATED CONNECTIONS.

• PROPRIETARY THIN-GAUGE STRUCTURAL FRAMING SYSTEM I.E. PURLINS, SFS OR SIMILAR.

• BRISE SOLEILS.

• PROPRIETARY SUSPENDED CEILING AND MEP SERVICES SUPPORT FRAMES/ FIXINGS (UNISTRUT OR SIMILAR).

• PAINT/ CORROSION PROTECTION BY STEELWORK FABRICATOR OR ARCHITECT.

• MEP VERTICAL RISER GRATING AND ASSOCIATED STEELWORK (FABRICATOR OR PROPRIETARY SUPPLIER DESIGNED).
2. ALL PROPRIETARY PRODUCTS ARE TO BE USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S DETAILS AND REQUIREMENTS.
- STAIRS
1. THE FINAL DESIGN OF ALL STAIRCASE MEMBERS AND FIXINGS WILL BE THE RESPONSIBILITY OF THE RELEVANT SUB-CONTRACTOR, FOLLOWING THE DESIGN INTENT DRAWINGS PRODUCED BY THE ARCHITECT.

2. ALL CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED TO THE CA 4 WEEKS BEFORE COMMENCEMENT OF ANY WORKS.

3. ALL STEELWORK, CONCRETE OR TIMBER SHALL BE TO THE RELEVANT EUROCODE STANDARDS.

4. ALL STAIRS & LANDINGS ARE TO BE POSITIVELY FIXED BACK TO THE PRIMARY STRUCTURE TO AVOID ACCIDENTAL COLLAPSE AND TO THE FIRE RATING-REFER TO FIRE STRATEGY.

5. LOADINGS ALL STAIRCASES SHALL BE DESIGNED FOR AN IMPOSED LOAD ALLOWANCE OF 4kN/m²

6. DEFLECTION: STAIRCASE IMPOSED LOAD DEFLECTION LIMITS ARE LISTED BELOW:

A. CONTINUOUS OR SIMPLY SUPPORTED MEMBERS SPAN ÷ 360

B. CANTILEVER MEMBERS SPAN ÷ 180. BUT NOT MORE THAN A MAXIMUM LOAD DEFLECTION OF 25mm.

7. PRIOR TO THE FABRICATION OF STAIR, A DETAILED SITE SURVEY SHALL BE UNDERTAKEN TO ESTABLISH THE EXACT DIMENSION BETWEEN SUPPORT WALLS AND FLOOR BEAMS.
- THE DESIGN AND DETAILING OF STAIRCASES SHALL ACCOMMODATE THE TOLERANCES, MOVEMENTS AND DEFLECTIONS OF THE PRIMARY STRUCTURE.
- MASONRY – GENERAL
1. REFER TO CURTINS MASONRY SPECIFICATION AT STAGE 4.

2. NO INDIVIDUAL BLOCK WEIGHT SHALL EXCEED 20kg.

3. ALL BLOCKWORK ABOVE DPC LEVEL IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7.3N/mm².

4. ANY CAVITY WALL TIES TO BE AT 450mm VERTICAL AND 900mm HORIZONTAL CENTRES. AROUND OPENINGS AND VERTICAL UN-BONDED OR RETURNED EDGES TIES SHALL BE PROVIDED AT 225mm VERTICAL CENTRES AND WITHIN 225mm OF THE EDGE.

5. LOCATION OF PARTITION MOVEMENT JOINTS / WIND POSTS TO BE DEVELOPED.

6. UNLESS NOTED OTHERWISE PROVIDE MASONRY HEAD RESTRAINTS OF ALL INTERNAL MASONRY WALLS: ANCON HR-V TIES AT MAXIMUM HORIZONTAL 900mm CRS. ENSURE MINIMUM 1 FULL COURSE OF BLOCKWORK BELOW HEAD RESTRAINT.

7. ALL TIES FIXED TO STEELWORK TO BE ELECTRONICALLY ISOLATED USING NEOPRENE ISOLATION SLEEVES. TIES TO BE FIXED TO STEELWORK USING BOLTS OR SELF-TAPPING SCREWS TO THE MANUFACTURER'S SPECIFICATION.

8. NOTE: PROPRIETARY LITEL SPECIFICATIONS HAVE NOT BEEN INCLUDED AT THIS STAGE SUBJECT TO THE SELECTED SUPPLIER.
- CAVITY WALL TIES TO BE STAINLESS STEEL AND SHALL BE IN ACCORDANCE WITH BS.1243 OR MEET WITH THE REQUIREMENTS OF DD140 PART 2
- DEMOLITION & STRIP-OUT
1. REFER TO ARCHITECT'S DEMOLITION DRAWINGS AND CURTINS PROPOSED DRAWINGS FOR STRUCTURALLY-SIGNIFICANT DEMOLITION / STRIP-OUT.

2. THE OVERALL STABILITY AND SAFE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING IS TO BE MAINTAINED THROUGHOUT THE NON-STRUCTURAL & STRUCTURAL DEMOLITION WORKS.

3. THE CONTRACTOR SHALL ENSURE THAT ANY TEMPORARY DEMOLITION LOADS WHICH ARE APPLIED TO THE TO-BE RETAINED STRUCTURE ARE WITHIN ITS LOADING CAPACITY TO PREVENT UNSAFE COLLAPSE E.G REGULAR CART-AWAY. OR PROVIDE TEMPORARY WORKS (BACK-PROPPING).

4. RAMS CONFIRMING THE METHOD & SEQUENCE OF DEMOLITION INCLUDING THE PLANT AND EQUIPMENT TO BE USED SHALL BE SUBMITTED TO MAIN CONTRACTOR FOR APPROVAL. DETAILS OF ANY SPECIALIST METHODS OF DEMOLITION PROPOSED SHOULD BE INCLUDED.

5. WHEN CARRYING OUT DEMOLITION, THE METHOD ADOPTED SHALL ENSURE THAT VIBRATION AND NOISE LEVELS WITHIN AND AROUND THE SITE PLUS THE ADJACENT BUILDINGS ARE ACCEPTABLE.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ISOLATION, DISCONNECTION AND REMOVAL OF ALL EXTERNAL SERVICES CONNECTIONS INCLUDING WATER, ELECTRICITY, DRAINAGE AND TELECOMMUNICATIONS. ANY SERVICES THAT CANNOT BE CUT OFF SHALL BE MARKED AND CAREFULLY PROTECTED AT ALL TIMES, AS SHOWN ON SERVICE ENGINEERS DRAWINGS.

7. THE CONTRACTOR SHALL LIAISE WITH THE RELEVANT SUPPLY AUTHORITIES FOR THE SAFE TERMINATION OF AND EXISTING SERVICES WITHIN OR ADJACENT TO THE SITE BOUNDARY, AND TO INCLUDE THE DIVERSION OF ANY SERVICES AFFECTED BY THE CONSTRUCTION WORKS.
- COMPOSITE METAL DECK SLABS & COMPOSITE BEAM ACTION
- COMPOSITE SLAB- METAL DECK DESIGN/ INSTALLATION
1. COMPOSITE METAL DECK SLABS ARE TO BE DESIGNED BY THE SPECIALIST SUPPLIER/ CONTRACTOR TO SATISFY BS-EN-1994 & ASSOCIATED METAL DECKING GUIDANCE.

2. THE DECK CONTRACTOR MUST MAKE ALLOWANCE FOR EDGE TRIMS, POUR STOPS, TEMPORARY PROPPING AS REQUIRED. DECK, POUR STOPS ETC, ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. WHERE REQUIRED SLAB EDGE CANTILEVERS BEYOND BEAM FLANGES EXCEEDS TRIM CANTILEVER CAPEABILITIES, NOTIFY DESIGN TEAM:- TEMPORARY PROPPING OR PERMANENT BEAM SUPPORT MAY BE REQUIRED.

3. DECK DESIGN TO DECKING SUBCONTRACTOR DETAILED DESIGN.

-FOR ANTICIPATED DECK TYPES, SEE GA LEGEND.

-DECK GAUGE TO SUBCONTRACTOR DESIGN. FOR STAGE 2 COSTING ASSUME 1.2mm THROUGHOUT.

4. SPECIALIST DECK DESIGNER TO DETAIL DECKING LAYOUT TO MINIMISE SINGLE SPANS OR ANYWHERE DECKING WILL REQUIRE PROPPING DURING CASTING. OTHERWISE DECKING TYPICALLY DOES NOT REQUIRE PROPPING TO SUSTAIN THE DEAD WEIGHT OF THE WET CONCRETE AND ANY OTHER CONSTRUCTION LOADS.

5. METAL DECKING TO HAVE A MINIMUM OF 75mm BEARING ON STEEL BEAMS WHERE TERMINATED.

6. A TOP MESH WILL BE PROVIDED FOR COMPOSITE BEAM ACTION OVER INTERMEDIATE SUPPORTS. STEEL DECKING CONTRACTOR IS TO CONFIRM THEIR OWN TOP & BOTTOM REINFORCEMENT REQUIREMENTS (AND MINIMUM DECK FIXINGS) ON DECK DRAWINGS TO ENSURE THIS IS INCORPORATED INTO OVERALL SLAB REINFORCEMENT DRAWINGS.

7. WHERE DECKING IS INDICATED AS RUNNING PERPENDICULAR TO FLOOR BEAMS, THE LATERAL RESTRAINT OFFERED BY THE DECK HAS BEEN RELIED UPON IN THE DESIGN OF THE BEAMS. THEREFORE METAL DECKS MUST BE PROVIDED WITH ADEQUATE FIXINGS TO TOP FLANGES OF ALL SUPPORTING PRIMARY STEELWORK TO LATERALLY-RESTRAIN SUCH ELEMENTS.

8. DECKING SHOULD BE CUT TO PROVIDE A TIGHT FIT INTO THE WEB OF THE COLUMN AND TAPE APPLIED TO MINIMISE CONCRETE LOSS. ALL FOUR EDGES OF THE DECKING (SHEET) MUST BE SUPPORTED DURING CONSTRUCTION USING PROPS ALONG THE SIDE OF THE DECKING'S FREE EDGE AS DEEMED NECESSARY. THE DECKING MUST BEAR ONTO PERMANENT SUPPORTS IN THE DIRECTION OF THE SPAN EXCEPT AT HOLES AS NOTED ABOVE.

9. MULTI-SPAN DECKING MUST NOT BE CUT DOWN TO SINGLE SPAN WITHOUT CONSENT OF THE SPECIALIST DECKING SUB-DESIGNER. WARNING: PROPPING & ADDITIONAL REINFORCEMENT MAY BE REQUIRED IF DECKING IS TO BE SINGLE SPAN.

10. IT IS RECOMMENDED PLANNED OPENINGS WITHIN THE FLOOR (EXCLUDING STAIR VOID) ARE DECKED OVER TO PROVIDE TEMPORARY FALL PROTECTION (E.G. VERTICAL RISERS) EVEN IF CONCRETE IS NOT PROPOSED.
- COMPOSITE SLAB- INSITU CONCETING
1. PRINCIPAL CONTRACTOR IS TO MAKE ALLOWANCE FOR ADDITIONAL CONCRETE REQUIRED DUE TO SAGGING OF COMPOSITE DECKING. FOR COSTING ASSUME 10%.

2. INSITU CONCRETE MIX: REFER TO CURTINS CONCRETE SPECIFICATION. FOR STAGE 2 COSTING ASSUME DESIGNATED MIX C30/37 TO ALL LEVELS.

3. CONCRETE MUST BE POURED EVENLY TO THE PANEL END IN THE DIRECTION OF SPAN OF THE DECKING. HEAVING OF WET CONCRETE MUST BE AVOIDED.

4. COMPOSITE DECK FLOOR SLABS MUST BE POURED TO THICKNESS (NOT TO LEVEL). THE TOP OF SLAB PROFILE WILL FOLLOW THE DEFLECTED SHAPE OF THE METAL DECK & STEEL BEAMS.

5. IF TEMPORARY CONSTRUCTION LOADS ARE LIKELY TO EXCEED 0.75kN/m² THE DECK SUPPLIER/ DESIGNER IS TO BE CONSULTED.

6. SHOULD DAY JOINTS BE REQUIRED, THESE SHOULD BE POSITIONED OVER A PERMANENT SUPPORT AT A SHEET END. WHERE THIS IS NOT POSSIBLE, NO MORE THAN THE END THIRD OF A SHEET SHOULD BE LEFT UN-POURED. AT RIGHT ANGLES TO THE SPAN, JOINTS SHOULD ONLY BE FORMED AT DECK BUTT JOINTS.

7. AFTER CURING, A LEVELLING SCREED TO BRING COMPOSITE SLAB LEVELS UP TO THE REQUIRED TOLERANCES SHOULD NOT BE APPLIED WITHOUT CURTINS PRIOR APPROVAL. ALTERNATIVE OPTIONS TO BE CONSIDERED INCLUDE RAISED ACCESS FLOORS, DECK PROPPING, PRE-CAMBERING STEEL BEAMS TO REDUCE TOTAL DEFLECTIONS OR TAPERED INSULATION FOR SCREED FALLS.
- COMPOSITE SLAB REINFORCEMENT & SLAB OPENINGS
- STUDS & SLAB REINFORCEMENT
1. UNLESS OTHERWISE NOTED, SHEAR STUDS ARE TO BE 19mm DIAMETER, 125mm NOMINAL HEIGHT (BEFORE WELDING) HEADED STUDS IN ACCORDANCE WITH BS EN 1994.

2. STUD QUANTITIES TO BE CONFIRMED AT STAGE 4. FOR STAGE 2 COSTING ASSUME 1NO STUD PER 300mm TO ALL PODIUM STEEL BEAMS.

3. STUDS SUBJECT TO BEND TEST SHALL NOT BE STRAIGHTENED.

4. A MINIMUM TOP MESH IS REQUIRED FOR STEEL COMPOSITE BEAM ACTION & CRACK CONTROL. ALLOW FOR ADDITIONAL BOTTOM LOOSE BARS FOR DECK DESIGNER REQUIREMENTS (90MIN FIRE RATING, SINGLE SPANS ETC) AND STEEL COMPOSITE BEAM REQUIREMENTS. FOR STAGE 2 COSTING ASSUME A393 TOP MESH THROUGHOUT (LAPPED).
- EDGES & COORDINATED OPENINGS
1. OPENINGS IN THE FINISHED SLAB SHOULD PREFERABLY BE PRE-FORMED BEFORE CONCRETING BECAUSE CUTTING THE CONCRETE SLAB MAY GIVE RISE TO LOSS OF BOND BETWEEN CONCRETE AND DECKING. THE PREFERRED METHOD OF FORMING SMALL OPENINGS IS TO BOX-OUT THE OPENING PRIOR TO CONCRETING & CUT THE DECKING ONCE THE SLAB HAS CURED.

2. STEEL U-BARS ARE TO BE PROVIDED TO ALL EDGE DETAILS INCLUDING BEAMS ADJACENT TO LARGE OPENINGS. BARS TO BE LOCATED AT LEAST 15mm BELOW TOP OF THE SHEAR STUD CONNECTORS.

3. ALL OPENINGS WIDER THAN 300mm ARE TYPICALLY TO HAVE SUPPLEMENTARY LOCAL REINFORCEMENT OR TRIMMING BEAMS.

4. OPENINGS WIDER THAN 700mm ARE TYPICALLY TO HAVE SUPPLEMENTARY TRIMMING BEAMS.
- UN-COORDINATED OPENINGS
5. UNPLANNED OPENINGS: REFER TO DECK SUPPLIERS OPENING RULES FOR MAXIMUM SIZE OF UN-PLANNED (CUT) OPENINGS.
- BREAKING OUT THE CONCRETE WITH A HEAVY PERCUSSIVE TOOL IS FORBIDDEN.
- HEALTH AND SAFETY
1. CURTINS ROLE ON THIS PROJECT IS THAT OF DESIGNER AS DEFINED BY CDM REGULATIONS. AS SUCH THE DESIGN HAS BEEN CONSIDERED FOR REASONABLE HAZARDS AND ASSOCIATED RISKS. REFER TO CURTINS CDM HAZARD REGISTER AND PRINCIPAL DESIGNERS HAZARD REGISTER.

2. THE CONTRACTOR'S ATTENTION IS DRAWN TO THE HEALTH AND SAFETY MATTERS WHICH HAVE BEEN IDENTIFIED WITHIN THE HEALTH AND SAFETY PLAN AS BEING POTENTIALLY HAZARDOUS. HOWEVER THESE ITEMS SHOULD NOT BE CONSIDERED AS A COMPLETE AND FINAL SET.

3. THE CONTRACTOR'S NORMAL HEALTH AND SAFETY OBLIGATIONS WILL APPLY WHEN UNDERTAKING CONSTRUCTIONAL OPERATIONS BOTH ON AND OFF SITE. THIS ALSO APPLIES TO ALL SUB-CONTRACTORS AND SUPPLIERS.

4. THE CONTRACTOR SHALL ENSURE THAT SUITABLE SUBSTANTIAL PROTECTION IS PROVIDED ALONG ANY BOUNDARY SUFFICIENT TO RETAIN ALL DEMOLITION DEBRIS WITHIN THE SITE. POLYTHENE SHEETING WILL NOT BE DEEMED APPROPRIATE IN THESE LOCATIONS.
- GENERAL NOTES:
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.

3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

4. FOR GENERAL NOTES REFER TO DRAWING.
- | | | | | |
|------|---------------|----------|-----|-------|
| P02 | STAGE 2 | 28.03.25 | SW | KG |
| P01 | DRAFT STAGE 2 | 14.03.25 | SW | KG |
| Rev: | Description: | Date: | By: | Chkd: |
- Curtins

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City & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer
Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kentville • Liverpool • London • Manchester • Nottingham

Status:

STAGE 2

Project:

PROJECT SAM

Dwg Title:

GENERAL NOTES

Drawn By	Designed By	Checked By
SW	KG	KG
	Date	Scales @ A1
	MAR '25	
Project No - Originator - Function - Spatial - Form - Discipline - Number		
Revision:		

085832 - CUR - 00 - XX - D - S - 20900

P02

085832-CUR-00-02-M3-S-00010

"HAZARD REGISTER (RELATES TO CIVIL/STRUCTURAL MATTERS ONLY) MUST BE READ IN CONJUNCTION WITH CURTINS DESIGNERS HAZARD REGISTER 085832-CUR-XX-XX-HA-X-10001. HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS."			
HAZARD REGISTER			
HAZARD REF No.	ITEM (FEATURE, ELEMENT OR ACTIVITY)	POTENTIAL HAZARD IDENTIFIED	ACTION
2.0 SITE WIDE ISSUES			
2.01	Used syringes present in some external areas	Transmission of infectious diseases	PM / Contractor to take appropriate precautions
2.02	Presence of asbestos	Health hazard	PM / Contractor to take appropriate precautions
2.03	General site construction activities such as demolition of existing slabs, walls and preparation of existing structural elements for carbon fibre strengthening.	Noise, dust, vibration from working in close proximity to neighbouring buildings	Ensure contractor is aware of the building location and proximity of adjacent buildings
3.0 EXISTING BURIED & OVERHEAD SERVICES			
3.01	Underground services	Presence of unknown underground services	Obtain drawings and conduct surveys to identify the location and extent of services
3.02	Presence of two existing tunnels to New Century House building and within the shelter near Dantzic Street/Hanover Street corner	Exact location and extent of existing below ground tunnels unknown.	Obtain drawings and conduct surveys to identify the location and extent of tunnels and whether any work will be affected.
4.0 DEMOLITION OF EXISTING STRUCTURES/ SITE CLEARANCE			
4.1	Forming voids in podium floors	Local effect on slab. Instability of remaining structure	Appropriate demolition sequencing and methodology to be developed by contractor
4.01	Demolition of Podium Level 5 and structure above	Instability of remaining structure	Appropriate demolition sequencing and methodology to be developed by contractor
4.02	(Partial) removal of band beams	Loss of structural integrity due to overbreak	Appropriate demolition sequencing and methodology to be developed by contractor
4.03	Removal of steel structure at B1 / B1 upper	Loss of restraint to columns	Columns to be checked for new loading / restraint conditions
4.04	Demolition of existing stairwell walls (GL 3)	Local effect on slab.	Appropriate demolition sequencing and methodology to be developed by contractor in coordination with engineers design.
4.05	Demolition of stair structure near Dantzic Street/Hanover Street corner that sits outside the building.	Demolished material/people/vehicles falling from ground level down through the stair structure.	Appropriate demolition sequencing and methodology to be developed by contractor. Structure broken down carefully with appropriate safety barriers and netting below.
4.06	Partial removal of mezzanine slab	Local effect on slab. Temporary loss of restraint to columns.	Provide temporary restraint to the columns close to the level of the existing slab. Engineer to check columns for new loading/restraint conditions and provide appropriate strengthening measures.
4.07	Demolition of B1 Lower concrete walls associated with strong rooms	Local effect on slab. Instability of remaining structure	Ferroscons to beams and walls to asses level of reinforcement.
4.08	Core wall door openings.	Effect on global stability of structure	Compare relative performance between the existing and proposed openings
4.09	Demolition of first floor slab in tower floor plate.	Local effect on slab. Instability of remaining structure	Provide temporary restraint to the columns close to the level of the existing slab. Engineer to check columns for new loading/restraint conditions and provide appropriate strengthening measures.
4.11	Site clearance and landscaping efforts around the building	Effect of reconfiguration and removal of soil in the vicinity of the retaining walls and impact of construction traffic.	External works to not impart any horizontal load on the retaining walls. Contractor to ensure construction traffic is kept outside the influence zone of retaining walls.
5.0 EXCAVATIONS AND FOUNDATIONS			
5.01	Verification of existing shelter roof and raft footing for increased column loads	Localised failure of raft foundation or roof slab and settlement of structure above	Intrusive investigations of raft to be carried out and ground investigations to determine strength of bearing strata
5.02	Extention of existing staircore on GL 6 (and GL 3) with a new lift shaft	Working in confined spaces, i.e. crawl space between bunker roof and Basement level 1 slab	Appropriate methodology to be developed by contractor
5.03	Infill of lightwells at either side of building associated with the basement levels of the tower.	Effect on stability of retaining wall to perimeter of building.	identification of critical structure associated with the retaining walls that must remain.
6.0 MATERIALS AND PROCESSES			
6.01	Removal/modification of existing steel members	Historically, lead based paint was used which may need to be burned off releasing toxic fumes.	Appropriate methodology to be developed by contractor.
7.0 ERECTING STRUCTURES AND PLACING COMPONENTS			
7.01	Construction activities adjacent to building, over existing basements	Failure of basement structures due to surcharge load from construction activities	Basement levels indicated on plans
7.02	Structural modifications to existing structure which are based on record drawings	Inaccuracies and deficiencies in record drawings	Undertake intrusive surveys to validate record drawings
7.03	Effect of crane load on existing structure	Crane may impart additional, unaccounted for loads.	Appropriate methodology to be developed by contractor.
9.0 CLIENT OPERATIONAL ISSUES AND RULES			
9.01	Limitations of fixing/drilling into structural elements that are carbon wrapped.	Partial loss of integrity of carbon fibre strengthening.	Develop a maintenance strategy for the columns that are strengthened.
9.02	Fire proofing requirements for the existing structure	Insufficient levels of fire resistance achieved from existing structure	Develop a strategy/methodology to enhance the fire performance of the existing structure.

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.

P02	STAGE 2	28.03.25	SW	KG
P01	DRAFT STAGE 2	14.03.25	SW	KG
Rev:	Description:	Date:	By:	Chkd:

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STAGE 2

Project:

PROJECT SAM

Dwg Title:

HAZARD SCHEDULE

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Designed By

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KG

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Project No - Originator - Function - Spatial - Form - Discipline - Number

Revision:

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