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GENERAL

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- 1. ALL COCHRANE CONSTRUCTION CONSULTING (CCC) DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL SPECIFICATION, ARCHITECT'S AND SPECIALIST DRAWINGS
- ALL COUNTRACT ON WITH STRUCTURAL SPECIFICATION, ARCHITECTS AND A CONTRACTION WITH STRUCTURAL SPECIFICATIONS. AND SPECIFICATIONS. THE EXISTING STRUCTURE SHOWN ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY/ON BERLAF OF OUR CLENT OR OBTAINED FROM LIMITED STE INSPECTION. THE NATURE OF THE EXISTING STRUCTURE SHOULD BE CONTRACTOR BY THE CONTRACTOR PRIOR TO STARTING ANY WORKS.
- 3 INFORMATION PROVIDED BY/ON BEHALF OF OUR CLIENT AND IS SHOWN FOR INFORMATION ONLY AND NO RELIANCE SHOULD BE PLACED UPON IT WITHOUT CHECKING WITH THE ISSUING
- 4. IT HAS BEEN ASSUMED THAT THERE ARE NO LIVE SERVICES IN THE AREA OF PROPOSED IT PAS BEEN ASSUMED TRAIT THERE ARE NO LIVE SERVICES INT THE AREA OF PROPOSEL WORKS EXCEPT AS INDICATED INDICATED, THE CONTRACTOR IS TO INFORM CCC IF THIS IS NOT THE CASE. ALL WORKS ASSOCIATED WITH THE IDENTIFICATION, ALTERATION OF TERMINATION OF SERVICES ARE TO BE CARRIED OUT BY OTHERS AND NOT INCLUDED IN CCC
- WORKS. ALL ARTICLES, MATERIALS AND GOODS SHALL BE NEW AND OF GOOD QUALITY, SUITABLE FOR THE RECUIRED PURPOSE AND SHALL CONFORM TO THE APPROPRIATE BRITISH STANDARD WHERE SUCH EXISTS. WHERE REFERENCES TO THE ABOVE REMADE IT SHALL BE INFERRED THAT THE LATEST EDITION APPLIES, TOGETHER WITH SUBSEQUENT AMENDMENTS, UNLESS
- THAT THE LATEST EDITION APPLIES, TOGETHER WITH SUBSEQUENT AMENDMENTS, UNLESS OTHERWISE SPECIFIED. ALL WATER AND DAMP PROOFING WORKS TO BE TO ARCHTECT'S DETAILS. WHERE THIS DRAWING SHOWS WATERRROOF OR DAMP PROOF MEMBRANES, THEY ARE SIMPLY INTENDED TO INDICATE THEIR POSITION IN RELATION TO THE STRUCTURE. THE MEMBRANES HAVE BEEN DESIGNED, SPECIFIED AND DETAILED BY THE ARCHTECT OR THE MANUFACTURES, AND ARE TO BE INSTALLED AS SHOWN ON THEIR DRAWINGS. ALL FIRE PROJECTION WORKS ARE TO THE ARCHTECT OR TALLS UNLESS SPECIFICALLY NOTED
- ALL FREE FRUIELINGY WORKS AND TO THE MANNEY AND THE ARCHITECTS DETAILS. ALL FLOOR SERVATION DETAILS AND ACOUSTIC ISOLATION ARE TO THE ARCHITECTS DETAILS. ALL FLOOR SERVAL WORKS, LANDSCAPING PAVING ETC. ARE TO THE ARCHITECTS DETAILS. APPORTMENT WORKS AND AREA TO A THE ARCHITECTS DETAILS. APPORTMENT AND A ADDREAMING PAVING ETC. ARE OMITTED FOR CLARITY. REFER TO THE ARCHITECTS DRAWINGS FOR DETAILS.

STRUCTURAL STEELWORK NOTES

- 11. ALL MATERIALS, FABRICATION, WORKMANSHIP AND ERECTION OF STEELWORK SHALL BE IN ACCORDANCE WITH THE NATIONAL STEELWORK SPECIFICATION FOR BUILDING CONSTRUCTION, 5TH EDITION AS PUBLISHED BY THE BRITISH CONSTRUCTIONAL STEELWORK
- ASSOCIATION. 12. STEELWORK CONNECTIONS SHALL COMPRISE NOT LESS THAN 4 NO. M12 DIA, GR. 8 BOLTS FOR ALL OTHER MEMBERS, EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS. WHERE CONNECTION LOADS ARE PROVIDED BY THE ENGINEER, THE STEELWORK CONTRACTOR SHALL DESIGN CONNECTIONS WHICH WILL BE SUBJECT TO
- SERVICES OF THE OLD MONTON THE OD TAKING LEW / NOTICE OR NOMINATION CONTROL OF NOMINATIO SUBARL ALCOWING STALL SHOLL OWNER OWNER OF WITH THOMESS OF GROUP BLIWLEN COLUMN BASEPLATES AND FOUNDATIONS/MASONRY SUPPORTS. GROUT SHALL TAKE THE FORM OF NEAT CEMENT SLURRY WITH A NON SHRINK ADDITIVE AND SHOULD BE JUST FLUID
- ITE MODIFICATIONS TO STRUCTURAL STEELWORK SHALL NOT BE CARRIED OUT UNLESS PRIOR PPROVAL HAS BEEN OBTAINED FROM THE ENGINEER
- APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER 16. ALL STRUCTURAL STEELWORK SHALL BE BLAST CLEANE TO R.S. 7079 PART A1, PREPARATION GRADE SA2 J AND, EXCEPT WHERE SPECIFIED AS CALVANISED, SHALL BE PAINTED WITH A SUITABLE GOO DUALITY HICH BUILD EDVOY ZINC PHOSPHATE PRIMER TO REVOLUE A DRY FILM THICKNESS OF NOT LESS THAN 75 MICRONS. A PRE-FABRICATION PRIMER MAY BE USED AT THE FABRICATORS DISCEPTION THE CONTRACTOR SHALL RESURE THAT THE PRIMER USED IS COMPATIBLE WITH SUBSEQUENT COATINGS SPECIFIED BY OTHERS. (E.G. INTUMESCENT PAINT
- PAINT). AS NOTED DRAWINGS IN CONTACT WITH EXTERNAL WALLS ARE TO RECEIVED 2 COATS OF MIO STEELWORK SPECIFIED AS GALVANISED SHALL BE BLAST CLEANED AS ABOVE & HOT DIP
- STEELWORK SPECIFIED AS GALVANISED SHALL BE BLAST CLEANED AS ABOVE & HOT DIP GALVANISED TO BS 7.29 MINIMUM CADTINE THICKNESS B& INCRONS
 ALL STEELWORK BELOW DPC LEVEL OR BUILT WITHIN THE MASONRY WALL CAVITY SHALL BE SITE PAINTED WITH A COMPATIBLE HICH BUILD EDVX JIKO HOSPHATE PRINKER TO PROVIDE A DRY FILM THICKNESS OF NOT LESS THAN 125 MICRONS, TO ACHIEVE AN OVERALL PRIMER COATING OF 200 MICRONS. I.E. LEIGHS PAINTS EPIGIP C400 ZIKO PHOSPHATE PRINKER/BUILDCOAT OR EQUAL. STEELWORK BELOW DPC SHALL ALSO BE ENCASED IN NOT LESS THAN JOOMN OF CONCRETE NOT VERKEE THAN SPECIFIED ON THE DRAVINGS.
 STEELWORK CONTRACTOR TO CO-ORDINATE WITH MAIN CONTRACTOR AND CLADDING CONTRACTOR TO PROVIDE ALL NECSSARY SECONDARY SEELWORK, RIMMING ETC. AS REQUIRED AROUND ALL DOORS, WINDOWS AND THE LIKE.
 STEELWORK CONTRACTOR TO CO-ORDINATE WITH MAIN CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY BRACING DURING THE SEQUENCE OF ERECTION.

TIMBER FLOOR CONSTRUCTION NOTES

- ALL STRUCTURAL TIMBER FLOOR MEMBERS TO BE OF MINIMUM SIZE AS SHOWN ON THE DETAIL DRAWINGS. SIZES SHOWN ARE NOMINAL TIMBER SIZES EXCEPT AS NOTED ON THE DRAWINGS. SIZES SHOWN ARE NOTIONS IN FINISHED SIZET DB S.44X714
 TIMBER FLOOR JOIST SHALL HAVE MINIMUM BEARINGS OF 100MM ON MASONRY AND 75MM ON STELL BEAMS OR TIMBER PLATES EXCEPT AS NOTED ON THE DRAWINGS. TIMBER FLOOR JOISTS SHALL NOT BE BUILT INTO PARTY WALL CONSTRUCTIONS BUITS SHALL BE SUPPORTED ON PROPRETARY JOIST HANGERS AT SUCH LOCATIONS. BEJTS SHALL BE SUPPORTED ON PROPRETARY JOIST HANGERS AT SUCH LOCATIONS. BEJTS SHALL BE SUPPORTED ON JOISTS SHALL NOT BE BUILT INTO PARTY WALL CONSTRUCTIONS BUT SHALL BE SUPPORTED ON PROPRIETARY JOIST HANGERS AT SUCH LOCATIONS. RESTRAINT TYPE JOIST HANGERS FARMERE, BY COLOCATIONS. RESTRAINT TYPE JOIST HANGERS FARMERE, BY ALL COLTATIONS. RESTRAINT STRUCT HANGERS AT SUCH COLTROS. RESTRAINT STRUCT HANGERS AT SUCH DORE THAN 200M CENTRES USING 30MM X SHMI GALVANISED STRAPS WITH A TURK DOWN LENGTH OF 100MM AND STRAIGHT LENGTH OF 600MM. STRAPS FIRE TO FLOOR JOISTS WITH 50MM, NO 10 SCREWS AT NOT MORE THAN 110MM CENTRES AND A MIMIUMO F4 FIXINGS.
 DOUBLE JOISTS SHALL BE PROVIDED UNDER NON-LODA BEARING STUDWORK PARTITIONS RUNNING PARALLEL WITH JOIST SPANS, UNDER BATHS AND UNDER ARING CUPPGARD TO A CORDANCE WITH THE HANGER MANUFACTURERS INSTRUCTIONS. JOISTS SHALL BE PROVIDED UNDER NON-LODA BEARING STUDWORK PARTITIONS RUNNING PARALLEL WITH JOIST SPANS, UNDER BATHS AND UNDER ARING CUPPGARD ACCORDANCE WITH THE HANGER MANUFACTURERS INSTRUCTIONS. JOISTS SHALL BE KITCO IN ACCORDANCE WITH THE HANGER MANUFACTURERS INSTRUCTIONS. JOISTS SHALL BE REST OF THE HANGER MANUFACTURERS INSTRUCTIONS. JOISTS SHALL BE REST OF THE BEAMS OF THE BEAMS OF THE BEAMS OF THE BEAMS AND SHALL BE NOTCHED THE MANUFACTURERS INSTRUCTIONS. JOISTS SHALL BE RESTRUCTIONS. JOISTS SHALL BE RESTRUCTIONS. JOISTS SHALL BE RESTRUCTIONS. JOISTS SHALL BE RESTRUCTIONS AND SHALL BE NOTCHED THE MANUFACTURERS INSTRUCTIONS. JOISTS SHALL BE RESTRUCTIONS. JOISTS SHALL BE RESTRAINED AT THE DONDERSIDE OF THE BEAMS.
 ALL MEMBERS ITTED INTO STELL BEAMS SHALL PROVIDE A GOOD FIT TO THE WEB OF THE BEAM NO SHALL BE LOCATION RESULTED OF HANGERS.
 ALL MEMBERS JETLE BEAMS ARE SPECIFIED WITHIN THE FLOOR DEPTH. THE UNDERSIDE OF FLOOR JOISTS SHALL BE RESTRAINED AT TOP OF LOOR TO NOT CHART THAN 2.0M CENTRES WITH GALVARED AT TOP OF LOOST IS LUEL AT NOT MORE THAN 2.0M CENTRES WITH GALVARED JOSTS AT ALL STRAP LOCATIONS. STRAPS SHALL BE FIXED TO WALLS SHALL BE FIXED AT ALL STRAP LOCATIONS. STRAPS SHALL BE FIXED TO MALESSATICE SUTHAL AND THE STA

- NALED TOGETHER AT NOT MORE THAN 600MM CENTRES. 29. UNLESS SPECIFIED OTHERWISE, SECURELY FIX STRUTTING BETWEEN JOISTS AT CENTRES AS

JOIST SPAN OF 2.5M TO 4.5M: - ONE ROW AT CENTRE OF SPAN. JOIST SPAN OVER 4.5M: - TWO ROWS EQUALLY SPACED

STRUTTING SHALL TAKE THE FORM OF ONE OF THE FOLLOWING. 38mm X 38mm SOFTWOOD HERRINGBONE STRUTTING LOCATED BETWEEN 5 & 25MM CLEAR

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STRUCTURAL UNDERPINNING NOTES

- STRUCTURAL UNDERPINNING NOTES
 TO BE READ IN CONJUNCTION WITH THE PRELIMINARIES AND GENERAL CONDITIONS.
 WORKMANSHIP: THE WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE ENGINEER'S
 DRAWINGS AND INSTRUCTIONS AND TO THE APPROVAL OF THE ARCHITECT AND
 THE
 BUILDING CONTROL OFFICER.
 ANY OTHER SEQUENCE OF OPERATIONS OR METHOD OF WORKING PROPOSED BY THE
 CONTRACTOR IS TO BE SUBMITTED TO THE ARCHITECT AND COPIED TO THE ENGINEER AND
 AGREED IN WRITING A MINIMUM OF 14 DAYS BEFORE WORK IS TO BE COMMENCED ON S
 SOLTACTORS RESPONSIBILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY
 OF THE UNDERPINNED STRUCTURE AND PROVIDE ALL NECESSARY SHORING, STRUTTING AND
 BRACING TO ENSURE ITS SAFETY AND STRULTY AT ALL THES.
 SERVICES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY
 OF THE UNDERPINNED STRUCTURE AND PROVIDE ALL NECESSARY SHORING, STRUTTING AND
 BRACING TO ENSURE ITS ALSO TO CARRY OUT A SURVEY OF THE PROPERTY AND
 ADJACENT RAFEA TO ESTALIST THE LOCATION OF OSTENUETIONS.
 SURVICES: THE CONTRACTOR SHALL FOR ITS ALSO TO CARRY OUT A SURVEY OF THE PROPERTY AND
 ADJACENT RAFEA TO ESTRUCTION STOLENG IS TO ALLOWED OR ANY TEMPORARY SUPPORT TO
 THE SERVICES OR OBSTRUCTIONS DURING THE UNDERPINNING.
 CONSTRUCTON SEQUENCE: THE CONTRACTOR SHALL SHALL SCHAREN IN SHORT SECTIONS SURVERS

Interservices or obstructions subring the underprinning. Construction sequence: The underprinning is to be undertaken in short sections not exceeding 1 METRE IN LENGTH. THE UNDERPINNING IS TO BE UNDERTAKEN ON A 'HIT AND MISS' sequence.

UNDERPINNING CONTD

- 35. NO ADJACENT PIN IS TO BE EXCAVATED UNTIL A MINIMUM 48 HOURS AFTER THE ADJACENT
- 35. NO ADJACENT PINIS TO BE EXCAVATED UNTIL A MIMIMUM 48 HOURS AFTER THE ADJACENT PIN HAS BEEN CAST AND PACKED UP.
 36. THE CONTRACTOR IS TO PROVIDE DRAWINGS MARKED UP TO SHOW THE PROPOSED SEQUENCE OF UNDERPININGS A MIMIMUM OF 14 ADS SEPCINE WORK IS COMMERCED.
 37. EXCAVATIONS: EXCAVATION SHALL BE TO THE DEPTH AND WIDTH SHOWN ON THE DRAWINGS. HOWEVER-WHERE TEER EROOTS ARE ENCOUNTERD NEW DREPRINS ARE TO EXTEND GOMM BELOW THE LAST TRACE OF ANY ROOT ACTIVITY. THE SIDES OF THE EXCAVATIONS SHALL BE ADEQUILATELY SHORED AND PROPPED TO PREVENT SUBSIDENCE OR SUP OF THE SOIL SOIL FACES BEHIND THE PIN AND AT THE FORMATION LEVEL SHALL BE UNINGTIMERED.
- UNDISTURBED.
 UNDISTURBED.
 ALL VOIDS BEHIND ANY SACRIFICIAL BACK SHUTTER TO BE FILLED WITH GROUT OR WEAK MIX CONCRETE PRIOR TO POURING THE STEM OF THE UNDERPIN. ALL EXCAVATIONS ARE TO BE INSPECTED BY THE ENGINEER AND/OR THE BUILDING CONTROL OFFICER. MINIMUM NOTICE OF 24 HOURS IS TO BE GIVEN WHEN EXCAVATIONS ARE RADBY FOR INSPECTION.
 THE SOFFIT OF THE EXISTING FOOTINGS IS TO BE LEVELED OFF AND CLEANED OF ALL LOSE OP DETIDENTIAL INATERIAL

- 39. THE SOFFIT OF THE EXISTING FOOTINGS IST OB E LIVELED OF RAND CLANED OF ALL LOSE OR DETIMENTAL MATERIAL.
 40. NO PROLECTING PORTINGS OF THE EXISTING FOOTINGS ARE TO BE TRIMMED EXCEPT AS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
 41. ANTI-HEAVE PRECAUTIONS IS HER ORE CARAVING OUT CONCRETING INTRODUCE ANTI-HEAVE PRECAUTIONS IN THE FORM OF CLAY MASTER AS DIRECTED BY THE ENGINEER TO THE FACES OF THE EXCAVATION.
 42. PLACING CONCRETE: THE CONCRETE FOR THE UNDERPINNING IS TO BE RC35. CONCRETE: THE CONTINUESTER FOR THE UNDERPINNING ISTO BE RC35. CONCRETE: THE CONTINUESTER FOR THE UNDERPINNING ISTO BE RC35. CONCRETE: THE CONCRETE IS TO BE FULLY COMPACTED USING A MECHANICAL WIRK FOR THE PORTING ANTER FOR THE PORTING ANTER FOR THE PORTING FOR THE PORTING ANTER FORT FOR THE PORTING FOR THE FOR THE FORT FOR THE PORTING FOR
- VIBRATOR. 43. THE TOP 75MM OF THE PIN IS TO BE FILLED TO THE FULL DEPTH AND WIDTH OF THE VOID WITH A 3: SHARP SAND-CEMENT MIX DRY PACK MIXED HAND DAMP AND RAMMED IN WFII SCULD.

STRUCTURAL MASONRY NOTES

- STRUCTURAL MASONRY NOTES

 44. BEFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR MASONRY REQUIREMENTS IN RESPECT OF ACOUSTIC, THERMAL INSULATION AND DURABILITY REQUIREMENTS. THE ENGINEER SHALL BE. NOTIFIED IMMEDIATELY IF THIS CONFLICTS WITH STRUCTURAL REQUIREMENTS.

 45. BLOCKWORK TO HAVE A MINIMUM COMPRESSIVE STRENGTH AS SPECIFIED ON THE DRAWINGS. ALL BLOCKWORK TO BE SOLD UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS AND IS TO COMPLY WITH BSS282, TABLE 4, REQUIREMENTS FOR SPECIAL CATEGORY OF MANUFACTURE. THE MAXIMUM WEIGHT OF AN INDIVIDUAL MASONRY WITI MUST NOT EXCEED 20KE, BLOCKWORK STORDUL DE LAUGURETY FROTECTED ON STRE TO AVOID SATUBRATION AND POSSUE INCERSE IN LIFTICW WEIGHT, REFERENCE SHALL BE MADE TO THE PROJECT ARCHITECT/ACOUSTIC CONSULTANT FOR COMPLIANCE WITH PART E OF THE BUILDING REGULATION. SOLVID TRANSMISSION.

 48. BLOCKWORK TO BE SOLVE OLD ALL MAINIMUM COMPRESSIVE STRENGTH TO THAT INDICATED BETWEEN GROUND FOR TO BE OF FOUNDATION QUALITY (REFER TO MANUFACTURES GUIDELINES) AND TO DE OT AT LEAST EQUIA MINIMUM COMPRESSIVE STRENGTH TO THAT INDICATED BETWEEN GROUND REAL AND HIST OLOGRESSIVE STRENGTH OT THAT INDICATED BETWEEN GROUND REAL MINIMUM COMPRESSIVE STRENGTH TO THAT INDICATED BETWEEN GROUND REAL AND HIST OLOGARESSIVE STRENGTH OT THAT INDICATED BETWEEN GROUND REAL MINIMUM COMPRESSIVE STRENGTH TO THAT INDICATED BETWEEN GROUND REAL AND HIST OLOGARESSIVE STRENGTH OT THAT INDICATED BETWEEN GROUND REAL MINIMUM COMPRESSIVE STRENGTH TO THAT INDICATED BETWEEN GROUND REAL AND HIST OLOGARESSIVE STRENGTH OT THAT INDICATED BETWEEN GROUND REAL AND HIST OLOGARESSIVE STRENGTH OT THAT INDICATED BETWEEN GROUND REAL AND HIST OLOGARESSIVE AREADED AND TO BE OF AT LEAST EDUIL ALCORERY OF MANUFACTURE.

 19. BRECK MONGK TO THATE AND HIST OLOGARESSIVE STRENGTH TO THAT INDICATED BETWEEN GROUND REAL AND HIST OLOGARESSIVE STRENGTH TO THAT INDICATED BETWEEN GROUND REA

- INSULATION. 50. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE WORKS DURING ONSTRUCTION.
- 51. LINTELS EXTERNAL WALLS: PROVIDE PROPRIETARY LINTELS AS SPECIFIED ON THE DRAWINGS OR EQUIVALENT APPROVED BY ALTERNATIVE MANUFACTURER. LOUIVALENT APPROVED BY ALTERNATIVE MANUFACTURER. INTERNAL WALLS: PROVIDE PROPRIETARY IG BOX LINTELS TO LOADBEARING INTERNAL WALLS AS SPECIFIED ON THE DRAWINGS OR EQUIVALENT APPROVED BY ALTERNATIVE MANUFACTURER.

PROVIDE PROPRIETARY IG INTERNAL LINTEL TO SMALL OPENINGS IN NON LOADBEARING BLOCKWORK WALLS OR EQUIVALENT APPROVED BY ALTERNATIVE MANUFACTURER. ALL STEEL LINTELS TO BE FULLY GALVANISED AND HAVE A MINIMUM 150MM BEARING TO EACH END UNLESS NOTED OTHERWISE.

CONCRETE

- 52. CONCRETE TO BE IN ACCORDANCE WITH THE SPECIFICATION, BS 8500: PART 2 AND BS EN 206. BLINDING - GRADE GEN1 MASS CONCRETE - GRADE GEN3 REINFORCED CONCRETE - GRADE RC40
- 53. FOR NOTES RELATING TO REINFORCEMENT, COVER ETC. REFER TO THE REINFORCEMENT
- FOR NOTES RELATING TO REINFORCEMENT, COVER ETC. REFER TO THE REINFORCEMENT DRAWING.
 CONCRETE FINISHES TO BE AS FOLLOWS: ALL CONCRETE FINISHES TO BE AS FOLLOWS: ALL CONCRETE TO BE NORMAL WEIGHT, STRENGTH GRADE C28/35 TO PROVIDE A MINIMUM CUBE COMPRESSIVE STRENGTH OF SIX/IMITY AT 2BADX5.
 ALL CONCRETE BELOW GROUND LEVEL (SLABS, WALLS & FOUNDATIONS) TO BE DESIGNED FOR A DESIGN SUIPART CLASS OF DS-2.
 UNDER NO CIRCUMSTANCES IS CONCRETE TO BE FOURED IF EXPECTED TEMPERATURE WITHIN THE FOLLOWING 24 HOUR PERIOD ISSEPCETED TO BE SO CORLESS.
 NO ADMIXTURES OF ANY FORM TO BE ADDED TO THE CONCRETE WITHOUT THE WIRTTEN PREMISSION OF THE STRUCTURAL ENGINEER. IT IS STRICTLY FORBIDDEN TO ADD WATER TO CONCRETE ON SITE.

STEEL SCHEDULE

REF	DESCRIPTION	SECTION	REACTION	S (max) kN	NOTES	CORROSION	END COND	ITONS
			SLS DEAD	SLS LIVE			END 1	END 2
BEAMS								
B1	Extension - grd floor	203x133UB25	15.0	21.7	Picks up change in level	Beam unpainted, to be concrete encased	concrete wall	concrete wall
B2	Omitted							
B3	Omitted							
B4	Extension - roof rear	152UC23	3.9	5.7		Туре 2	Conc Padstone 440x150x100	Conc Padstone 440x150x100
B5	Extension - roof middle	152UC23	7.2	10.7		Туре 2	Conc Padstone 440x150x100	Conc Padstone 440x150x100
B6	First floor - spine beam (HL grd)	152UC37	19.9	30.0	Beam to be set within floor, fire protection to architects detail	Туре 1	Conc Padstone 330x150x100	Conc Padstone 330x150x100
		CORROSION I	NOTES					
TYPE 1	Steel to be blast cleaned to Sa2	5, and shop painted	l with 2 coats zin	c phosphate prir	mer, total dry thickness 70	μm		
TYPE 2	As type 1, with additional 2 coats MIO (micaceous iron oxide) shop applied, total dry thickness 90µm							

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Proposed	Structure	
Beam Sch	edule	
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Scale: 1:50



PROPOSED - FIRST FLOOR Scale: 1:50







PROPOSED - THIRD FLOOR Scale: 1:50

PROPOSED - ROOF PLAN Scale: 1:50

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Church building – extends a storey		
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General Notes)
A Planning Issue - Rear extension reduced by on works revised to suit client changes Preliminary Issue - Pre Planning App Advice Su	e storey, 08/04/2024 bmission 23/02/2024
No. Revision/issue	Date
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CONSTRU	CTION
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Mob: 07793200529 Email: ccconsultw4@gmail.com	J
Client	
Project Name and Address	
LONDON NW1 7	ET
Proposed Structure	
Floor Plans Third Floor & Boof	
BC Project	2930
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1:100 @ A3	a)









PROPOSED - ELEVATION B-B

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APPENDIX C – STRUCTURAL CALCULATIONS (& SETTLEMNT ASSESSMENT)

161 ARLINGTON ROAD, LONDON NW1 7ET

Structural Calculations for Proposed Refurbishment of 161 Arlington Road

Project Ref:

Date:

Revision:

By:



Email: ccconsultw4@gmail.com Tel: 07793200529

S-2930 Feb-24 0 BC Contents & Intro - Page 2/35

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COCHRANE CONSTRUCTION CONSULTANTS

Email: ccconsultw4@gmail.com Tel: 07793200529

161 ARLINGTON ROAD,LONDON NW1 7ET Rev:

S-2930

01 February 2024

oject No:

Project:

Date:

Calc By:

Sect	ion 1 Unit Loading				
<u>Dea</u>	ad Loads	kN/m2	kN/m2		
		Dead	Live		
Floo	or - modern construction c1987	0.67	1.50	Typica	l Floo
	Finishes, allow 15mm engineered boards	0.12			kN/ı
	Decking - 19mm boards assumed	0.15		Dead	0.6
	Joists - 50x175@300c/cs	0.23		Live	1.5
	Ceiling - 12mm plasterboard	0.12			
	Insulation & services	0.05			
	Domestic Loading		1.50		
-		0.44		Deutiti	
EXIS	Director board both forest conversed 12 years a last a last a	0.44		Partitio	
	Plasterboard both faces - assumed 12mm plasterboard	0.24		D J	KIN/
	Timber stud - assume 50x100@400c/c	0.10		Dead	0.4
	Noggings and services	0.10			
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COCHRANE CONSTRUCTION **CONSULTANTS** Email: ccconsultw4@gmail.com Tel: 07793200529 Structural Calculations for Proposed Refurbishme Title: Section 1 Unit Loading Imposed Loading - maintenance / snow (increased to allow for future solar panels) New Terrace Floor Deck. Assume timber decking on joists Deck - 19mm boarding Joists - 50x 75 @ 300 c/cs Insulation + services Soffit board - assume 12mm ply Imposed loading - residential Façade - assume double glazing with metal framing glazing - 2 layers 4mm glass, 2.2m high metalwork - allow 0.1kN/m2 Roof - assume roof as rear extension roof

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	CONS	TRUC	TION		
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0779320	0529				
Title: Structural Calculations for Pr			ns for Propo	osed Refur	bishm
Section 2	New Stee	beams			
m B1 - Anal	ysis (UC o	ption)	Choose stee	I section:	
Span (m)	4.100		152x152x30		C
Load Fa	actors				0
Dead	1.4		E (N/mm ²)	205000	C
Imposed	1.6		lx (cm⁴)	1748	
	Dead	Imposed	Position	Length	
LOADING	kN	kN	m	m	
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Point load				-	
Point load					
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	DESU			DEACTIC	NS /
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Lateral to	rsional b	uckling			
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Uniform factor		m	1.00		
Buckling moment		M _{bar}	22.35	cl. 4.3.72	
	Slen	derness R	atio		
Effe	ective lengt	th	radius of	sienderness	
L	factor	LE	gyration	2	
4.100	1.4L+2D	6.055	3.83	158.10	cl. 4.3.7
Deflection	1				
Defle	ection Lin	nits	Allowable	Actual	
span/deflection rati		atios	mm	mm	-
Imposed Loads		500	8.2	1.5	
Imposed Load	440	500	82	76	
Imposed Loa Total Loads		500	8.2	7.6]

