

afety N	otes - General 2 of 2
e desig contrac	ify hazards that were impractical or n stage. The list is not exhaustive and tor is to carry out risk assessments and th current Health & Safety legislation.
	Suggested Solution/Precaution/ Sequence
roof	Carry out with extreme care by mechanical means. All elements to be provided with lifting eyes/holes, to the Designer's requirements.
	Personal protective equipment to be worn at all times. No member of workforce to be working under or within the area of crane erection/crane swing path.
r roof	Any damage to steelwork, pc units or roof trusses during transportation or erection are to be reported to the appropriate specialist manufacturer and the Engineer.
ction	Handling and construction to be carried out in accordance with current health and safety legislation and British Standards. The Contractor is also to inform workforce regarding block weights and handling requirements.
	Site welding and/or site cutting of holes in members is not be carried out without the Engineers permission. The Contractor also to ensure that the correct bolt specification is used.
	Adequate shoring to excavations is to be provided.
ation	Adequate ventilation and protection to be provided with all site applications. New steelwork members to be pre-coated prior to delivery.
rial S)	Following the discovery of suspect material, the Contractor is to stop work immediately and report to the Engineer, and await instructions to proceed.
afety I	Notes - Foundations
s identi desig	ify hazards that were impractical or n stage. The list is not exhaustive and tor is to carry out risk assessments and th current Health & Safety legislation.
	Suggested Solution/Precaution/ Sequence
	Adequate shoring to excavations is to be provided.
isting	Avoid excavation of trenches parallel to existing foundations unless specifically instructed by the Engineer.
ease	Contractor to provide adequate protective clothing and equipment, and ensure proper working practices are employed to deal with any contaminated material encountered during works.
	Contractor to investigate and adequately mark the location and status of any existing overhead/underground services/plant on or in close proximity to the site.
	Contractor to ensure unattended excavations are adequately protected

REIN	<u>DING</u> FORCED IN-SITU CONCRETE GROUND FLOOR AND	<u>NO'</u> 1.	<u>FES - TRAD</u> ALL FOUND
	ER GROUND CONSTRUCTION TO BE DESIGNED FOR THE		OTHERWIS
FOLL	OWING LOADS:	2.	THE NHBC
	DEAD (EXCLUDING SELF WEIGHT OF SLABS): CHIPBOARD AND INSULATION = 0.15KN/M2		AN EFFECT
	75MM SAND:CEMENT SCREED = 1.80 KN/M2		500mm. 7 CLASSIFIEI
	100M LIGHTWEIGHT BLOCKWORK = 3.00KN/M RUN		IN EXCESS
	75MM LIGHTWEIGHT STUDWORK = 1.00KN/M RUN		CONCRETE
	IMPOSED LOAD (TO BS6399): 5.00 KN/M2.		FOUNDATI
200	STOLE ENTINE MEZZANTNE ELOOD.		TWO; OR 3
1.	SIBLE FUTURE MEZZANINE FLOOR: ALL UPPER FLOORS TO HAVE LIGHT WEIGHT CONSTRUCTION	3.	THE ENGIN
	(POSSIBLY COLD-FORMED C-SECTIONS, SPANNING BETWEEN		SPECIES O AS THEY
	STEEL BEAMS), DESIGNED AND SUPPLIED BY AN APPROVED		DEPTH REC
	SUPPLIER.		LANDSCAPE
2.	FLOOR SPANS ARE INDICATED THUS:		TO ENSUR
3.	FOR SPAN LENGTHS, PLUS POSITIONS AND TYPES OF PARTITION WALLS SUPPORTED BY THE FLOOR, REFER TO		DEPTHS O
	ARCHITECTS DRAWINGS.	4.	WITH NHB
4.	FIRST FLOOR CONSTRUCTION TO BE DESIGNED FOR THE	4.	OVER UNL
	FOLLOWING LOADS:		THE FOUN
	AN IMPOSED LOAD OF 3.0 kN/m2 (TO BS6399).		SHOWN O
	LIGHT WEIGHT STUD PARTITIONS 1.0 kN/m2.		ENGINEER
TFF	LWORK:		REQUIRED
1.	STEEL CONTRACTOR TO CHECK THE RELEVANT DIMENSIONS	F	THE FOUNI
	PRIOR TO FABRICATION . ANY DISCREPANCIES TO BE	5.	THE DEPTI WHICHEVE
	IMMEDIATELY REPORTED TO THE ENGINEER.		GREATER D
2.	ALL STEELWORK TO BE GRADE S355 (JO FOR PLATES AND	5.	
	ROLLED SECTIONS AND JOH FOR STRUCTURAL HOLLOW SECTIONS) TO BS EN10025, UNLESS NOTED		ENGIN
	OTHERWISE.		PROPO
3.	STEELWORK FABRICATION AND ERECTION ARE TO BE	5.	LOWE 2. TO A
	CARRIED OUT IN ACCORDANCE WITH B.S. 5950:PART-2:2000	5.	2. TO A LEVEL
4.	STEELWORK TO HAVE FIRE PROTECTION AS PER	5.	
-	ARCHITECT'S DETAIL AND CLIENT'S REQUIREMENT.		LEVEL
5.	PRIOR TO FABRICATION THE STEELWORK CONTRACTOR SHALL SUBMIT STEELWORK FABRICATION DRAWINGS TO	5.	
	CISTEC FOR COMMENT.		EXPOS
6.	ALL EXTERNAL / EXPOSED STEELWORK EITHER TO BE	5.	SHRIN 5. A MIN
	GALVANISED OR HAVE OTHER PROPRIETARY	5.	GROUI
	CORROSION PROTECTION AS PER ARCHITECT'S	6.	FOUNDATIO
7.	DETAILS AND CLIENT'S REQUIREMENTS. COLUMNS BELOW GROUND LEVEL TO BE CASED IN		SUITABLE
1.	100mm THICK CONCRETE		CAPACITY
8.	COLUMNS ABOVE GROUND TO BE CASED IN CONCRETE		GROUND 16.09.2011
	AS PER ARCHITECT'S REQUIREMENTS.		AND GEOT
9.	ALL STEEL COLUMNS TO HAVE PROTECTION AGAINST	7.	FOUNDATI
10	IMPACT LOAD- NO ALLOWANCE IS MADE IN DESIGN.		TO HAVE 7
10.	STEELWORK FABRICATION AND ERECTION ARE TO BE CARRIED OUT IN ACCORDANCE WITH.B.S 5950:PART		LEVEL NO
	2:2000		HORIZONT
11.	THE STEEL SHALL BE SUPPLIED SHOT BLASTED TO	8.	TRENCH AN ANY EXIST
	SWEDISH STANDARD SA 2.5 TO REMOVE ALL LOOSE	0.	GRUBBED
	RUST AND MILL SCALE AND PRIMED WITH ZINC		TO 300mm
	PHOSPHATE TO A MINIMUM THICKNESS OF 75 MICRONS BEFORE DELIVERY TO SITE IN ACCORDANCE		LEVEL, ANI
	WITH BS 5493: 1977 CODE OF PRACTICE FOR		BE AT T
	PROTECTIVE COATING OF IRON & STEEL STRUCTURES	0	FOUNDATI
	AGAINST CORROSION OR AS PER CLIENTS	9.	CONSTRUC TO BE IN
	REQUIREMENT. FOLLOWING INSTALLATION, ANY		4.4
	DAMAGE TO THE PROTECTIVE COATING SHALL BE	10.	ALL FOUN
10	SPOT-PRIMED PRIOR TO DECORATION.		UNLESS NO
12.	ALL PAINTINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH CLIENT'S REQUIREMENTS.	11.	ALL EXCAV
13	ALL RESIN ANCHORS FIXED INTO MASONRY OR		MATERIAL
10.	CONCRETE ARE TO BE STAINLESS STEEL GRADE A4-70.	10	NOT BE EX CONCRETE
	NEOPRENE WASHERS TO BE USED TO SEPARATE	12.	AND BRE
	STAINLESS FROM GALVANISED STEEL.		CONFORM
14.	ANY WIND POSTS, PARAPET SUPPORT, AND	13.	
	HANDRAILING TO BE FINALIZED. (ALL WIND POSTS TO HAVE SLOTTED HOLE CONNECTION AT THE TOP TO		FOLLOWS:
	ALLOW FOR POSSIBLE DEFLECTION OF BEAM ABOVE).		13.1 UN
15.	THE STEEL COLUMNS TO BE KEPT LATERALLY		(CC
2.	STABLISED BY ADJACENT MASONRY WALLS AS SHOWN		FO TO
	ON TYPICAL COLUMN TYING DETAILS, UNLESS NOTED		13.2 CO
10	OTHERWISE.		CA
10.	ALL HORIZONTAL (SEMI-HORIZONTAL) BRACING	14.	THE LAYOU
	WITHIN THE CEILING AND UNDER THE SLOPING ROOF		TO DE CO

GROUND FLOOR AND LOWER GROUND FLOOR SLAB	GENERAL NOTES
1. THE SETTING OUT OF THE REINFORCED CONCRETE SLAB IN RELATION TO THE RETAINING WALLS IS AS SHOWN ON THE PLAN AND SECTION. THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS REQUIRED ON SITE TO ALLOW FOR POSSIBLE REVISION OF THE FOUNDATION	THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS & DOCUMENTS BY CISTEC AND ARCHITECT'S, SPECIFICATIONS & SOIL INVESTIGATION REPORT.
SETTING OUT DETAILS. 2. THE DEPTHS TO BOTTOM OF THE LOWER GROUND FLOOR SLAB SHALL CONFORM TO WHICHEVER OF THE	ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE. ALL WORKING DIMENSIONS TO BE CHECKED ON SITE.
FOLLOWING CRITERIA GENERATES THE GREATER DEPTH:- 2.1. TO THE MINIMUM DEPTHS AS SHOWN ON THE	DO NOT SCALE FROM THIS DRAWING. FOR SETTING OUT OF ALL WALLS, REFER TO RELEVANT ARCHITECT'S DRAWINGS.
ENGINEER'S DRAWINGS, BELOW EXISTING OR PROPOSED GROUND LEVELS, WHICHEVER IS THE	ALL CLADDINGS AND SURFACE FINISHES TO ARCHITECT'S SPECIFICATIONS AND DETAILS.
LOWER. 2.2. TO A MINIMUM 500mm BELOW ANY TREE ROOTS EXPOSED DURING EXCAVATIONS, WHERE FOUNDED	IN CASE OF ANY DISCREPANCIES IN DRAWINGS OR DETAILS, IMMEDIATELY REFER TO ENGINEER FOR CLARIFICATION.
IN SHRINKABLE MATERIAL. 2.3. A MINIMUM OF 300mm INTO UNDISTURBED NATURAL GROUND.	COPYRIGHT RESERVED. THIS DRAWING MAY ONLY BE USED FOR
3. FOUNDATIONS ARE TO BEAR A MINIMUM OF 300mm INTO A SUITABLE FORMATION TO ACHIEVE A MINIMUM BEARING CAPACITY OF 125 kN/m2.	THE CLIENT AND LOCATION SPECIFIED IN THE TITLE BLOCK. IT MAY NOT BE COPIED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF CISTEC.
4. ANY EXISTING FOUNDATIONS ENCOUNTERED ARE TO BE GRUBBED OUT LOCALLY AT THE POSITION OF NEW SLAB, TO 300mm BELOW THE DEPTH OF THE EXISTING	PRIOR TO ANY WORK BEING COMMENCED ON SITE, THE ENGINEER SHOULD BE CONTACTED REGARDING THE CURRENT
 FORMATION LEVEL, AND THE NEW SLAB FORMATION LEVEL IS TO BE AT THIS DEPTH OR BELOW. ALL EXCAVATIONS SHALL BE KEPT FREE FROM WATER, 	STATUS OR REGULATORY TECHNICAL APPROVAL OF THIS DRAWING.
LOOSE MATERIAL AND RUBBISH ETC. THE FORMATION LEVEL SHALL NOT BE EXPOSED UNTIL THE DAY OF THE	FOUNDATIONS LEGEND FOUNDATION DEPTHS
CONCRETE POUR. 19. ALL MADE GROUND, TOPSOIL AND ORGANIC MATTER, TOGETHER WITH ANY SOFT, DISTURBED OR DESICCATED	1.00M
MATERIAL SHOULD BE REMOVED FROM BENEATH THE AREA OF GROUND BEARING SLAB.20. PRIOR TO PLACING GRANULAR FILL, THE FORMATION	1.25M
SHOULD BE PROOF ROLLED TO INDICATE ANY FURTHER SOFT SPOTS. WHERE ENCOUNTERED THESE SHOULD BE EXCAVATED AND REPLACED WITH ADDITIONAL	1.75M
GRANULAR FILL. 21. AFTER EXCAVATION TO FORMATION LEVEL, AND REMOVAL OF ALL POCKETS OF SOFT OR DISTURBED	2.00M 2.25M
MATERIAL, THE BEARING STRATUM IS TO BE INSPECTED BY THE APPROPRIATE BUILDING CONTROL OFFICER. ONCE APPROVAL OF THE FORMATION HAS BEEN GIVEN,	2.50M
THE CONCRETE SHOULD IDEALLY BE PLACED IMMEDIATELY, HOWEVER, IF THE INTENDED CONCRETE POUR IS TO BE DELAYED BY MORE THAN 4 HOURS FROM	ALL LOAD BEARING BLOCKWORK WALLS TO BE CONSTRUCTED WITH 7.3N/mm ² BLOCKS.
WHEN THE EXCAVATION WAS FIRST OPENED, THEN THE FORMATION SHOULD BE PROTECTED FROM DETERIORATION BY PLACING A MIN. 50mm THICK LAYER	SUSPENDED GROUND FLOOR SLABS:
OF CONCRETE BLINDING. 7. THE ENGINEER SHOULD BE AFFORDED THE	 SUSPENDED GROUND FLOOR SLABS TO BE 225 DEEP BEAM AND BLOCK CONSTRUCTION, OR WIDESPAN HOLLOWCORE PC UNITS, DESIGNED AND SUPPLIED BY AN APPROVED SPECIALIST. THUS
OPPORTUNITY OF INSPECTING THE FORMATION LEVEL UNDER THE SLAB AND REINFORCEMENTS PRIOR TO THE PLACING OF THE CONCRETE. ALLOW A MINIMUM 24	 SPAN DIRECTION NOTED AS: 2. FOR SPAN LENGTHS, PLUS POSITIONS AND TYPES OF PARTITION WALLS SUPPORTED BY THE FLOOR, REFER TO ARCHITECTS
HOURS NOTICE FOR INSPECTION.16. SUB BASE TO BE SAND OR CONCRETE BLINDED TO RECEIVE D.P.M. AND/OR WATER-PROOFING.	DRAWINGS. FOR SUB FLOOR VOID VENTILATION DETAILS REFERTO ARCHITECTS DRAWINGS.3. FLOOR CONSTRUCTION TO BE DESIGNED FOR THE FOLLOWING
17. SUB BASE FORMATION COULD HAVE A MIN. of 150mm MOT TYPE 1, WELL GRADED CLEAN INERT GRANULAR MATERIAL, LAID AND COMPACTED IN MAX. 150mm	LOADS: DEAD (EXCLUDING SELF WEIGHT OF FLOOR UNITS): CHIPBOARD AND INSULATION = 0.15KN/M2
LAYERS, IN ACCORDANCE WITH TABLE 8/1 OF THE SPECIFICATION FOR HIGHWAY WORKS, FOR LEVELING PURPOSE.	75MM SAND:CEMENT SCREED = 1.80KN/M2 100MM LIGHTWEIGHT BLOCK PARTITIONS = 3.00KN/M RUN
18. THE CONCRETE USED FOR GROUND BEARING SLABS CAN BE SEPARATED FROM THE UNDERLYING FILL MATERIAL BY A DAMP PROOF MEMBRANE (REFER TO ARCHITECTS	75MM LIGHTWEIGHT STUD PARTITIONS = 1.00KN/M RUN IMPOSED LOAD (TO BS6399): 5.00 KN/M2
 DRAWINGS FOR SPEC). 19. ALL CONCRETE ARE SPECIFIED IN ACCORDANCE WITH BS8500-1 AND BRE SPECIAL DIGEST No1 ALL CONCRETE 	WALLS - GENERALLY 1. ALL BRICKWORK AND BLOCKWORK IS TO COMPLY WITH THE PROVISIONS OF BS 5628: PART 3 USE OF MASONRY.
IS TO CONFORM TO BS EN 206-1 AND BS 8500-2. 20. REINFORCED CONCRETE	 ALL BRICKWORK AND BLOCKWORK IS TO COMPLY WITH THE PROVISIONS OF BS 5628: PART 3 USE OF MASONRY. CONCRETE BLOCKWORK OR BRICKWORK TO BS 6073
 All concrete work is to comply with the provisions of BS8110 Part 1 The structural Use of Concrete. All steel is to be clean and free from deleterious 	PRECAST CONCRETE MASONRY UNITS, MINIMUM STRENGTH 7.3N/MM2 TO THE SUPERSTRUCTURE AND BELOW GROUND. MORTAR TO BS5628-3 - SUPERSTRUCTURE DESIGNATION
substances, loose rust or scale, or any coating that would impair the bond. 3) All reinforcement is be fabricated as detailed on the	(III) AS 1:1:6 (CEMENT: LIME: SAND) OR 1:6 CEMENT:SAND) PLUS PLASTICIZER;- BELOW GROUND DESIGNATION (I) OR (II) AS 1:4 (CEMENT:SAND) PLUS PLASTICIZER.
bending schedules, cut and bent in accordance with BS 4466 and properly fixed in position with adequate chairs, spacers, tying wire etc to maintain the	4. 140 INTERNAL MASONRY BLOCKWORK LOAD BEARING BLOCKWORK INDICATED THUS:
concrete cover specified.4) Concrete cover to reinforcement to be a minimum of 35mm.	<u>LINTELS</u>
5) Minimum lap lengths of reinforcement: T10- 400 T12 - 500	 ALL LINTELS TO BE SELECTED TO SUIT THE PARTICULAR LOAD CONDITIONS. MINIMUM 200 MM BEARING FOR LINTELS WITH SPAN IN
T16 - 640 T20 - 800 T25 - 1000	EXCESS OF 1500MM, 150MM IF UNDER. TIMBER STRUCTURES
21. CONCRETE STRENGTH/DURABLITIY REQUIREMENTS ARE AS FOLLOWS:	 ALL TIMBER IS TO BE GRADE SC4 UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ALL TIMBER MEMBERS (TIMBER STUDS ETC) TO BE
 13.1 ALL CONCRETE TO BE GRADE C40 (COMPRESSIVE STRENGTH 40 N/mm2). 13.2 DESIGN SULPHATE CLASS DS-4 AND ACEC CLASS 	TREATED IN ACCORDANCE WITH BS 5268 - 5 AND RECOMMENDATIONS BY TRADA.
AC-3s AND DESIGN CHEMICAL CLASS TO B.R.E SPECIAL DIGEST 1,. 13.3 CONCRETE SAMPLING AND TESTING SHALL BE	ROOF RAFTERS 1. SLOPING ROOF STRUCTURE FORMED FROM TIMBER CUT-RAFTERS, SECURED TO 50X100 WALL PLATES
CARRIED OUT IN ACCORDANCE WITH BS 1881. 22. THE LAYOUT OF ANY EXISTING DRAINPIPES OR SERVICES IS TO BE CONFIRMED UPON EXCAVATION, AND	STRAPPED TO WALLS @ 1.8 METRE CENTRES WITH 30X5 GALVANISED STRAPS.
SPLIT SLEEVE DUCTING IS TO BE USED WHERE THOSE TO REMAIN, AND ANY NEW DRAINPIPES OR SERVICES, PASS THROUGH NEW CONCRETE SLAB AND WALLS. THE	
DUCTING SHOULD BE SUITABLY SIZED TO PROVIDE A MINIMUM 50mm CLEAR VOID AROUND THE PIPE OR SERVICE. THE VOID MAY BE USING EXPANDED	
POLYSTYRENE OR SIMILAR MATERIAL. 23. THE GROUND FLOOR SLAB SHOULD BE 200MM THICK IN-SITU CONCRETE, REINFORCED THROUGHOUT. THE	
REINFORCEMENT SHOULD CONSIST OF ONE LAYER A393 MESH AT TOP AND TWO LAYERS OF B1131 MESH AT BOTTOM (WITH MAIN BARS PARALLEL TO SPAN OF SLAB	RevAmendmentByDateP1First issue, preliminary for comments only.CST12.12.13
AS SHOWN ON THE PLAN. LAPS IN MESH TO BE 500mm MINIMUM.	P2Still preliminary for comments only - notes & sections amended.CST10.02.13P3Preliminary for comments only - section 5-5 amended.CST25.02.13P4Notes corrected.BE08.03.13
24. THE LOWER GROUND FLOOR SLAB SHOULD BE 250MM THICK IN-SITU CONCRETE, REINFORCED THROUGHOUT. THE REINFORCEMENT SHOULD CONSIST OF H20 LOOSE	P5Stepping and Backfilling Sections Added.CST10.04.13AConstruction Issue (Subject To Building Control Approval).BE11.04.13
BARS AT 100MM C/C IN EACH DIRECTION, AT TOP & BOTTOM. FOR FURTHER DETAILS REFER TO PLAN, SECTIONS AND BAR BENDING SCHEDULES.	
25. RETAINING WALLS SHOULD BE 250MM THICK IN-SITU CONCRETE AND REINFORCEMENT SHOULD CONSIST OF B1131 MESH IN EACH FACE WITH MAIN BARS	
VERTICALLY. FOR FURTHER DETAILS, REFER TO THE GA, SECTIONS AND/OR ELEVATIONS AND BAR BENDING SCHEDULES.	
 ALL LOOSE BARS TO BE GRADE 500 H TYPE 2 HOT ROLLED STEEL IN ACCORDANCE TO BS 4449, 1997. ALL REINFORCEMENT TO BE FIRMLY HELD IN PLACE. 	
 28. CHAIRS AND SUPPORTS ARE NOT SHOWN. CONTRACTOR TO PROVIDE SUFFICIENT REINFORCEMENT SUPPORTS AND MAINTAIN COVER TO REINFORCEMENT DURING 	
 FIXING AND POURING. 29. ALL CONCRETE TO BE FULLY MECHANICALLY VIBRATED. 30. CONCRETE CAST AGAINST BLINDING OR FORMWORK OR 	
 SHUTTERS TO HAVE 30mm THICK COVER TO REINFORCEMENT. CONCRETE CAST DIRECTLY AGAINST EARTH TO HAVE 	
75mm THICK COVER TO REINFORCEMENT.32. ALL CONCRETE WORK IS TO COMPLY WITH THE	
REQUIREMENTS OF BS8110 AND 8500-1 AND NATIONAL STRUCTURAL CONCRETE SPECIFICATION FOR BUILDING CONSTRUCTION.	
33. ALL CONCRETE MIX CERTIFICATES SHALL BE APPROVED BY THE ENGINEER PRIOR COMMENCEMENT OF WORK ON SITE.	
 34. STANDARD CUBES SHALL BE TAKEN FOR COMPRESSIVE STRENGTH TESTING. ONE SET OF 3 CUBES SHALL BE TAKEN FOR EACH 20m³ OF CONCRETE PLACED, OR LESS 	
PER DAY. ONE CUBE IS TO BE TESTED AT 7 DAYS AND THE REMAINING TWO AT 28 DAYS.18.35. FINISHES TO FLOOR SLABS, DPM/DPC, INSULATION ETC	
TO ARCHITECTS DETAILS.	
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000	
	Client
Dowel bars as per	CONTRACTORS LTD 258 Belsize Rd, London. NW6 4BT T.020 7316 1850 F.020 7316 1892
note, if the concrete is poured at different stages.	Email: <u>info@suncontractors.co.uk</u>
	STRUCTURAL ENGINEERING
oundation Stepping To Suit in Ground Level.	STANDARD NOTES, TYPICAL FOUNDATIONS & RETAINING WALLS DETAILS
	Project MKMA, Coffee Hall, Milton Keynes.
	Scale as noted @ A0 Dec 2012 AA
<u>e Retaining Walls</u>	1127-300 A

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