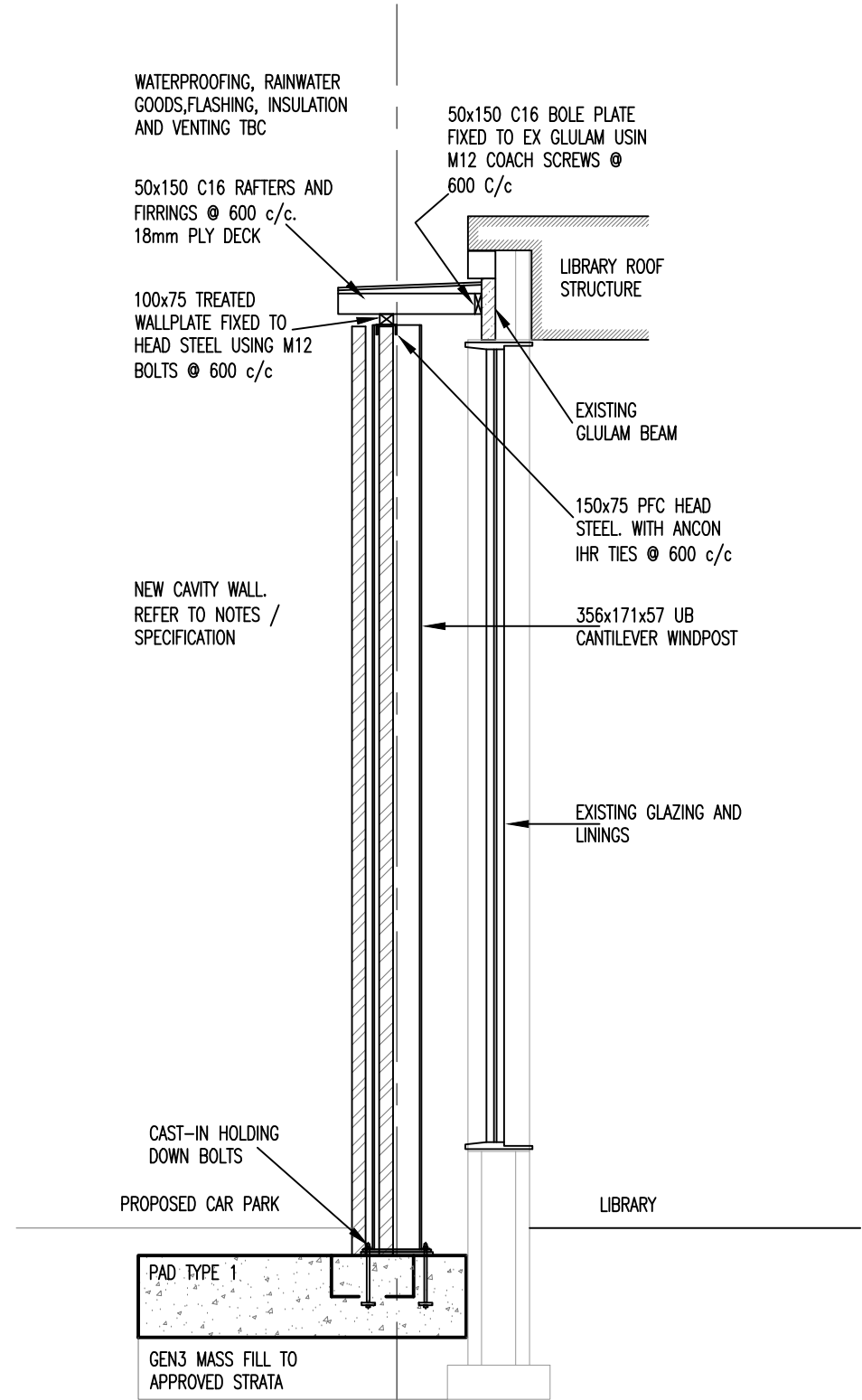
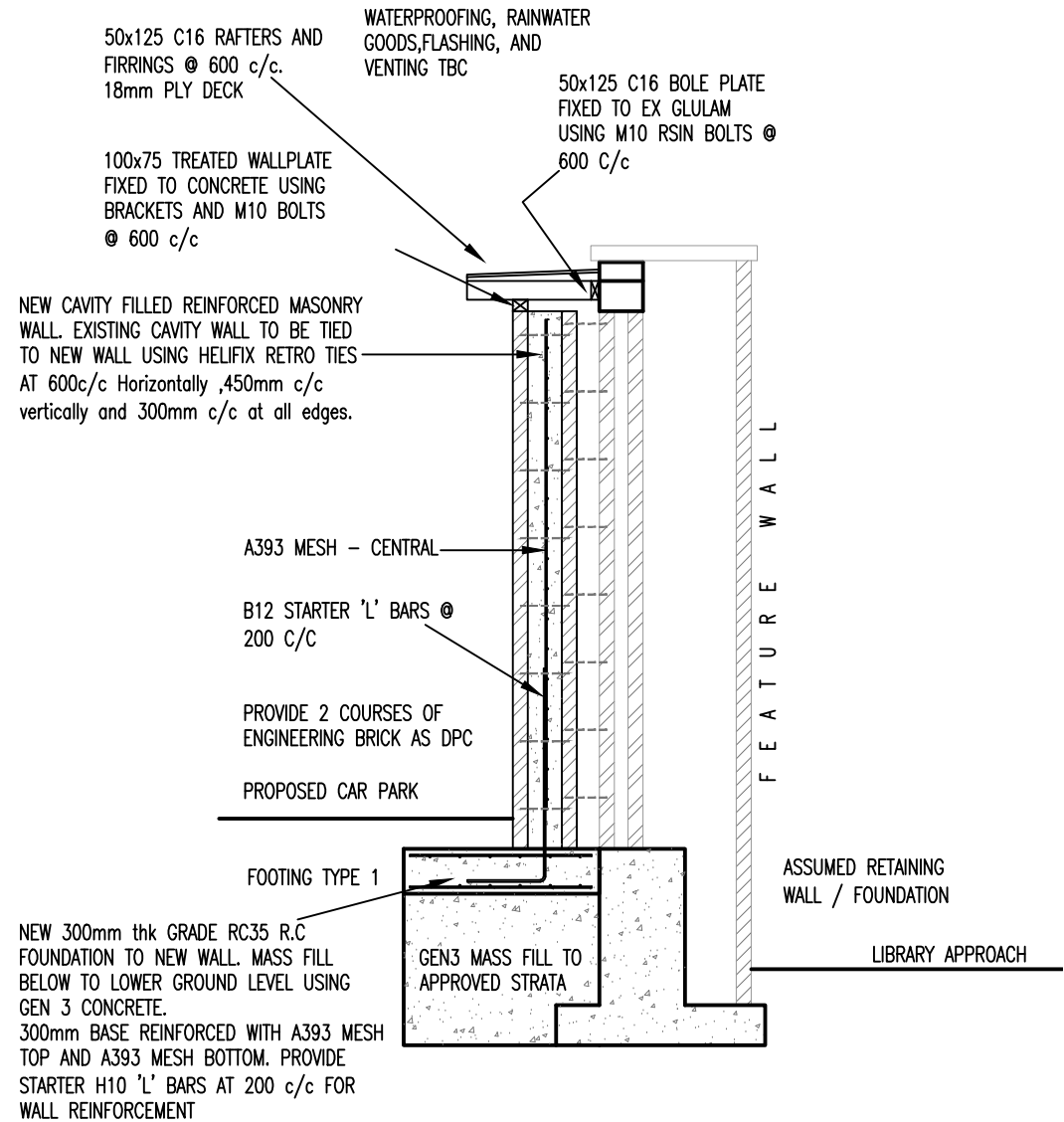




SECTION A-A AT LIBRARY WALL
SCALE 1:50



SECTION B-B AT FEATURE WALL
SCALE 1:50

STRUCTURAL STEELWORK	GENERAL NOTES
THIS DRAWINGS IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, MECHANICAL & ELECTRICAL AND ARCHITECTS DRAWINGS AND SPECIFICATIONS. ALL GRID AND SETTING OUT DIMENSIONS AND LEVELS TO BE CROSS-CHECKED AGAINST ARCHITECTS DRAWINGS. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH STATUTORY HEALTH AND SAFETY/C.D.M. REGULATIONS, RELEVANT CODES OF PRACTICE AND THE CURRENT EDITION OF THE BUILDING REGULATIONS.	DO NOT SCALE OFF THIS DRAWING
ALL STRUCTURAL STEELWORK SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH BS EN-1993, THE NISS (5TH EDITION- CE MARKING VERSION) AND THE PROJECT SPECIFICATION.	THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
STEELWORK GRADES: COLUMNS TO BE GRADE S355 BEAMS TO BE GRADE S355. UNLESS NOTED OTHERWISE.	ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.
NOTES TO SUB CONTRACTORS	ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
THE STEELWORK SUPPLIER IS TO SUBMIT DUPLICATE COPIES OF ALL FABRICATION DRAWINGS TO THE ENGINEER FOR EXAMINATION AND COMMENT WELL IN ADVANCE OF FABRICATION (MIN. 5 WORKING DAYS).	ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS, STATUTORY HEALTH AND SAFETY/C.D.M. REGULATIONS, RELEVANT CODES OF PRACTICE AND THE CURRENT EDITION OF THE BUILDING REGULATIONS.
THE STEELWORK FABRICATOR SHOULD MAKE PROVISION FOR FIXING POINTS etc. FOR THE CONNECTION OF SAFETY HARNESS/EDGE PROTECTION WHERE NECESSARY TO SUIT THE PROPOSED ERECTION PROCEDURE IN ACCORDANCE WITH THE RELEVANT HEALTH AND SAFETY GUIDELINES.	FOR FINAL SETTING OUT INFORMATION RELATING TO GRID LINES AND WALL POSITIONS REFER TO THE ARCHITECT'S DRAWINGS.
THE STEELWORK FABRICATOR SHOULD ALSO INCLUDE IN HIS TENDER FOR THE PROVISION OF ERECTION LIFTING POINTS FOR THE SAFE ERECTION OF STEELWORK.	ALTERATION WORK
ALL STEEL LEVELING AND PACKING SHIMS TO BE PROVIDED BY STEELWORK SUPPLIER.	THE MAIN CONTRACTOR (MC) IS TO BE SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL TEMPORARY WORKS AND PROPPING.
CONNECTIONS: INCLUDING THE COLUMN BASEPLATES SHALL BE DESIGNED BY THE STEELWORK SUBCONTRACTOR, ALL BEAM CONNECTIONS TO HAVE FULL BEAM DEPTH END PLATES, MINIMUM CONNECTION TO BE 4 M16 GRADE 8.8 BOLTS OR THE EQUIVALENT IN WELD. FIRE PROTECTION TO ARCHITECTS DETAILS.	THE MC SHALL, PRIOR TO PLACING ORDERS, CHECK ALL EXISTING WALL THICKNESS ON SITE PRIOR TO PUTTING EACH SECTION OF WORK IN HAND. THE MC SHALL NOTIFY THE ENGINEER OF ANY VARIATIONS FROM THE WALL THICKNESS INDICATED ON THE DRAWINGS. THE MC SHALL ALSO INFORM THE ENGINEER OF ANY VARIATIONS IN THE EXISTING CONSTRUCTION FROM THAT INDICATED ON THE DRAWINGS.
ALL BOLTS ARE TO BE GRADE 8.8 TO BS 3692:2001, UNLESS NOTED OTHERWISE, AND HOT DIP SPUN GALVANIZED TO BS EN ISO 1461:1999.	THE MC SHALL DISCUSS AND CONSULT WITH THE STEELWORK SUPPLIER THE PROPOSED METHOD OF ERECTION AND SUBMIT DETAILS IN WRITING TO THE ENGINEER PRIOR TO PUTTING EACH SECTION OF WORK IN HAND.
ALL WELDING SHALL COMPLY WITH BS EN 1011-2:2001 AND BS EN 1011-1:1998 U.N.O. AND ALL FILLET WELDS SHALL HAVE A MIN THROAT THICKNESS OF 6mm U.N.O.	ALL DIMENSIONS FOR FABRICATION OF STRUCTURAL STEEL ARE TO BE TAKEN ON SITE BY THE STEELWORK SUPPLIER AND AGREED WITH THE MC.
MASONRY RESTRAINTS: ALL WALLS TO BE RESTRAINED BY ANCON IHR-B OR SIMILAR APPROVED HEAD RESTRAINTS C/W SLEEVE FIXED TO U/S OF FLOORS/RAFTERS AT 750 CRS. WALLS BUILT UP TO U/S OF COMPOSITE FLOOR TO BE RESTRAINED BY STAGGERED ANGLES (ANCON FHR).	ALL NEW LOAD BEARING BRICKWORK IS TO BE CONSTRUCTED USING CLASS B ENGINEERING BRICKS LAID IN A 1:1:6 CEMENT LIME MORTAR, UNLESS OTHERWISE STATED.
ALL MEMBERS BUILT INTO OR RESTRAINING MASONRY SHALL BE CAPABLE OF ADJUSTMENT (MINIMUM TOLERANCE +/- 10mm). NONE PROPRIETARY SUPPORT MEMBERS ARE TO BE TACK WELDED OR POSITIVELY FIXED IN POSITION ON COMPLETION OF ALIGNMENT.	ALL NEW BRICKWORK TO BE FULLY BONDED UNLESS OTHERWISE STATED.
ALL BEAMS THAT ARE CONCRETE ENCASED SHALL INCORPORATE A MINIMUM OF ONE LAYER D49 WRAPPING FABRIC AROUND BEAM. COVER TO WRAPPING FABRIC TO BE NOT LESS THAN 25mm U.N.O.	ALL NEW BRICKWORK IS TO BE TOOTHED OR BLOCK BONDED INTO EXISTING ADJACENT BRICKWORK/BLOCKWORK. ALTERNATIVELY A PROPRIETARY WALL STARTER SYSTEM MAY BE USED AS AGREED WITH THE ENGINEER.
CORROSION PROTECTION	ALL EXISTING BRICKWORK DISTURBED DURING ALTERATION WORK IS TO BE MADE GOOD. GAPS BETWEEN EXISTING BRICKWORK AND TOP OF NEW BEAMS TO BE RAKED OUT AND SOLIDLY FILLED WITH GROUT.
CORROSION PROTECTION SYSTEM TO COMPLY WITH BS EN ISO 12944. WHERE INTUMESCENT/DECORATIVE PAINT IS SPECIFIED BY THE ARCHITECT, COMPATIBILITY WITH CORROSION PROTECTION TO BE CHECKED BY STEEL FABRICATOR.	MASONRY WALL CONSTRUCTION
SURFACE PREPARATION: BLAST CLEAN TO Sa 2½ IN ACCORDANCE WITH BS EN ISO 8501 (U.N.O.). CORROSION PROTECTION TO BE SHOP APPLIED IN LINE WITH THE ENVIRONMENTAL CATEGORIES BELOW:	OUTER LEAF BRICKWORK TO HAVE A WATER ABSORPTION BETWEEN 7% AND 12% UNLESS NOTED OTHERWISE (U.N.O.)
ENVIRONMENT CATEGORY C1 (E.G. INSIDE HEATED, DRY BUILDINGS): NO CORROSION PROTECTION REQUIRED	MINIMUM STRENGTH OF BLOCKWORK (U.N.O.):— BELOW GROUND 7.00 N/mm² ENGINEER ABOVE GROUND 7.00 N/mm²
ENVIRONMENT CATEGORY C2 (E.G. INSIDE UNHEATED BUILDINGS WHERE CONDENSATION MAY OCCUR): 80 MICRONS OF ZINC EPOXY PRIMER AND 80 MICRONS OF ACRYLIC/EPOXY/POLYURETHANE	MORTAR ABOVE GRD TO BE (ii) / M6 MORTAR BELOW GRD TO BE (i) / M12
FOR STEELWORK IN EXTERNAL WALL CAVITIES WITH MIN. 40mm SEPARATION FROM THE OUTER LEAF: 80 MICRONS OF ZINC EPOXY PRIMER	FOR DETAILS OF ALL BRICKWORK, BLOCKWORK AND WALL CONSTRUCTION REFER TO ARCHITECTS DRAWINGS AND DETAILS.
FOR STEELWORK IN EXTERNAL WALL CAVITIES WHICH IS IN DIRECT CONTACT WITH THE OUTER LEAF: STEELWORK TO BE HOT DIP GALVANISED TO BS EN ISO 1461 OR STAINLESS STEEL	MOVEMENT JOINTS TO BE:— BRICKWORK— POSITIONED AT MAX. 12000mm CENTRES BLOCKWORK— POSITIONED AT MAX. 6000mm CENTRES STONEWORK— POSITIONED AT MAX. 6000mm CENTRES
ALL STRUCTURAL EXPOSED STEELWORK SECTIONS AND STEELWORK SECTIONS LOCATED BELOW GROUND LEVEL SHALL BE HOT DIPPED GALVANISED TO BS EN ISO 1461 OR SURROUNDING IN CONCRETE TO GIVE 100mm MINIMUM COVER.	ARCHITECT TO POSITION MOVEMENT JOINTS TO THE APPROVAL OF THE ENGINEER.
REINFORCED MASONRY WALLS	MASONRY WALL TIES
REINFORCED MASONRY WALLS TO BE CONSTRUCTED BY THE MAIN CONTRACTOR (MC) IN ACCORDANCE WITH ENGINEER'S DRAWINGS & DETAILS. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH STATUTORY HEALTH AND SAFETY/C.D.M. REGULATIONS, RELEVANT CODES OF PRACTICE AND THE CURRENT EDITION OF THE BUILDING REGULATIONS.	WALL TIES TO BE STAINLESS STEEL AND TO COMPLY WITH BS EN 845-1 AND PD-6697.
THE MC IS TO BE SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL TEMPORARY WORKS, SHORING & FORMWORK.	EXTERNAL CAVITY WALL TIES TO BE TYPE 2. EMBEDMENT DEPTH IN EACH LEAF TO BE MINIMUM 50mm WITH WALL TIE LENGTH TO BE CAVITY + 125MM. SPACING 750mm HORIZONTALLY AND 450mm VERTICALLY I.E. 2.5 TIES PER SQ. METRE OF WALL MINIMUM. ADDITIONAL TIES ARE TO BE USED AT JAMBS OF OPENINGS SO AS TO PROVIDE A VERTICAL SPACING NOT GREATER THAN 300mm. WITHIN 150mm OF VERGES AND JAMBS, A TIE IS REQUIRED AT LEAST EVERY 300mm VERTICALLY.
RETAINING WALL BASE TO BE FOUNDED ONTO COMPETENT BEARING STRATA, CAPABLE OF GBP 125 kN/m².	PARTY WALL TIES TO BE TYPE 4/TYPE A AND MINIMUM EMBEDMENT DEPTH IN EACH LEAF TO BE MINIMUM 50mm WITH WALL TIE LENGTH TO BE CAVITY + 125MM. SPACING AS INDICATED ABOVE. TIES TO BE SPECIFICALLY MANUFACTURED PARTY WALL TIES TO REDUCE SOUND TRANSFER AND MEET BUILDING REGULATIONS: PART E.
WEEPHOLES TO BE 75mm IN DIAMETER AND PLACED ABOVE THE LEVEL OF THE LAND DRAIN. WEEPHOLE CENTRES TO BE 1m HORIZONTALLY.	
MOVEMENT JOINTS IN OUTER LEAF TO BE POSITIONED AT MAXIMUM 6m CENTRES IN BLOCKWORK AND 12m CENTRES IN BRICKWORK.	
REINFORCED MASONRY TO BE CONSTRUCTED FROM MASONRY STRENGTHS & STEEL REINFORCEMENT AS NOTED ON PLAN. WALL TIES TO BE STAINLESS STEEL AND TO COMPLY WITH BS EN 845-1 AND PD-6697. WALL TIES TO BE TYPE 2 WITH 50MM MINIMUM EMBEDMENT INTO EACH LEAF.	
CONCRETE INFILL CORE TO BE GRADE C28/35 MINIMUM CEMENT CONTENT 30 kg/m³ WATER/CEMENT RATIO OF 0.6 MAXIMUM AGGREGATE SIZE 10mm	
MORTAR ABOVE GRD TO BE 1:¼:4 (ii) / M6 MORTAR BELOW GRD TO BE 1:3 (i) / M12	

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Project	THE VENUE HUYTON KNOWSLEY		
Drawing Title	PROPOSED GROUND AND FIRST FLOOR REMEDIAL WORKS LAYOUT		
Date	August 2020	Drawn By	NG
Scale at A1	AS SHOWN	Checked By	CP
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