[Fig. 180] Longitudinal Section (Not to scale)
NORTH ELEVATION SUN SHADE DETAIL

SECTION

Scale 1 in 10
KEY
1. EXISTING CONCRETE COLUMN
2. EXISTING MASONARY WALL
3. 406X170 STEEL 'I' BEAM
   TO ENG DTL.
4. 600X300 GUSSET CLEAT
   TO ENG DETAIL.
5. BOLTS TO ENG SPECIFICATION
6. CHEMICAL ANCHOR BOLTS
   TO ENG SPECIFICATION.

GENERAL NOTE
HOLES IN CLEAT BRACKET
ARE TO BE PRE DRILLED.
HOLES IN 'I' BEAM ARE
TO BE DRILLED ON SITE
AFTER BEAM HAS BEEN
SET IN PLACE.

STRUCTURAL DETAIL C1
PERSPECTIVE
25mm GMS Rectagrid loose laid into 30x30 GMS angles to be removed for glass cleaning.

6.2mm clear heat absorbant safety glass set into 30x30 GMS angles with 10x6 double sided neoprene tape & black structural anti fungal silicone.

Glass to be silicon but jointed along length of skylight and laid to falls.

1:5 Detail.

Side panels of 25mm GMS Rectagrid set into 30x30 GMS angle frame. Hinged for cleaning access with locking and stay mechanisms to detail.

450 x 450 concrete flagstones loose laid on PVC spacers.

Derbitex waterproofing laid to falls on lightweight insulating screed on Q-Lock® slab to eng detail.

No ceiling req'd below Q-Lock®

300 x 100 GMS channel ring beam to skylight opening - to eng detail.

SKYLIGHT DETAILS

SECTIONS Scale 1in10 & 1in5
DRYWALL INTERNAL & INTERNAL WALLS
- 60 MIN FIRE RATED.
- 50 DB ACoustIC RATED.
DOUBLE LAYERED 9MM MEDIUM DENSITY NUTECH EXTERNAL CLADDING WITH FIXINGS & JOINTS TO MANUFACTURERS RECOMMENDATIONS.
GALVANISED STEEL STUD FRAME SYSTEM TO MANUFACTURERS RECOMMENDATIONS.
MIN 50MM HIGH DENSITY SYNTHETIC FIBRE ACoustIC BLANKET.

GALVANISED STEEL BALLYSTRADe WITH RAILINGS AT MAX 100CMS.

SMOOTH TINTED GRANITE WITH POLYSULPHIDE FILLED JOINTS AT MIDSPAN OR MAX 2500CMS.
DERBİSEM WATERPROOFING.

POLYSULPHIDE JOINT.

SHOERTSPAN 'Q' LOCK® FLOOR TO ENG DTL.
75X75 GMS ANGle
200X75 GMS CHANNEL TO ENG DTL.

INTERNAL WALLS TO BE CLAD WITH 15MM FIRETOP GYPSUM BOARD, WITH FIXINGS, JOINTING AND SKIMMING TO MANUFACTURERS RECOMMENDATIONS.

75X19 HW SKIRTING.

HARDWOOD FLOORING SET IN BITUMEN ON POWERFLOATED CONC. & LOCK FLOOR UP TO 5000 SPAN TO ENG DTL.

BALCONY & DRYWALL DETAILS
SECTION Scale 1in10
KEY
1. EXISTING CONCRETE COLUMN
2. EXISTING MASONARY WALL
3. 300 x 100 STEEL CHANNEL TO ENG DTL.
4. 90 x 150 ANGLE CLEAT WITH GUSSETS.
5. BOLTS TO ENG SPECIFICATION
6. CHEMICAL ANCHOR BOLTS TO ENG SPECIFICATION.

GENERAL NOTE
HOLES IN CLEAT BRACE ARE TO BE PRE-DRILLED.
HOLES IN CHANNELS ARE TO BE DRILLED ON SITE AFTER THEY HAVE BEEN SET IN PLACE.
STRUCTURAL DETAIL D1
SECTION Scale 1:10
NEW 0.8MM GALVANISED IBR VERTICAL CLADDING TO EXTERIOR

EXISTING CORRUGATED IRON ROOF & PURLINS CUT BACK FOR PENETRATION OF NEW GALLERY TOWERS.

NEW ELBOW BRACKET TO SUPPORT CUT BACK PURLINS.
SPECIALLY FORMED GRP VALLEY GUTTER & FLASHINGS TO SPECIALIST DETAIL.

GALVANISED STEEL STUD FRAME SYSTEM FIXED TO CLEATS.

127MM FIRESTOP GYPSUM CLADDING TO INTERIOR WITH FIXINGS, JOINTS AND SKIMMING TO MANUFACTURERS RECOMMENDATION.

GMS 127DIA THIN WALLED TUBES TO ENG DETAIL SET PARALLEL TO PITCH OF EXISTING ROOF

GALLERY TOWER VERTICAL PENETRATION DETAIL

SECTION Scale 1 in 10
NEW 0.8MM GALVANISED IBR VERTICAL CLADDING TO EXTERIOR OF GALLERY TOWERS. FIXED TO:

127 DIA THIN WALLED GMS TUBES SET PARALLEL TO EXISTING ROOF PITCH AT MAX 1800CMS - ALL TO ENG. DETAIL.

127 DIA TUBES BOLTED TO GUSSET PLATES ON 300X100, 'I' BEAM COLUMNS TO ENG DTL.

GALVANISED STEEL STUD FRAMES FIXED TO CLERETS & SET VERTICALLY AT MAX 500CMS BETWEEN 127 DIA TUBES.

100MM COMPRESSED SYNTHETIC FIBRE THERMAL & ACOUSTIC INSULATION.

15MM FIRESTOP GYPSUM CLADDING TO INTERIOR WITH FIXINGS, JOINTS, AND SKIMMING TO MANUFACTURERS RECOMMENDATION.

NOTE.
THE ENTIRE GALLERY TOWERS STRUCTURE WILL BE TO STRUCTURAL ENGINEERS DETAIL.
THE STRUCTURE WILL REQUIRE PROPPING AND SUPPORT DURING ERECTION.
THE EXTERNAL VERTICAL IBR CLADDING WILL BE DESIGNED AS A STRUCTURAL SKIN TO PROVIDE THE REQUIRED BRACING AND SUPPORT.

GALLERY TOWER WALL DETAIL
PLAN Scale 1in 10

RADIUS NOT TO SCALE.
[new cavity basement construction]

- Part of existing slab removed and then made good
- Course stone infill
- Derbygum waterproofing or approved equivalent
- Stretcher course on edge to allow for ventilation into cavity
- Weep hole with geotextile cover
- 110mm cavity
- Screed
- 120mm concrete slab reinforced with steel mesh to engineer’s specification
- 0.45 polyolefin damp proof membrane (black)
- Layer of loosely laid bricks
- 200mm no fines concrete base to a fall towards sumps with geopipes laid in a herringbone pattern
- Existing basement floor
- Sump to engineer’s specification