

NOTES:
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GENERAL NOTES:

- FOR FINISHES AND COLOURS REFER TO WSRM ROOM DATA SHEETS
- LEVELS TO TOP OF STEEL AS SHOWN ON ENGINEER'S DRAWING
- GROUND WORKS**
- C20 DEMOLITIONS REFER TO WSRM DRGS [???? SERIES] AND STRUCTURAL ENGINEER'S DETAILS
- D20 EXCAVATING AND FILLING SEE WSRM SECTIONS AND STRUCTURAL ENGINEER'S DETAILS
- INSITU CONCRETE/LARGE PRECAST CONCRETE TO STRUCTURAL ENGINEER'S DETAILS
- E10 INSITU CONCRETE MAKES, CASTING AND CURING TO STRUCTURAL ENGINEER'S DETAILS
- E20 FORM FOR INSITU CONCRETE TO STRUCTURAL ENGINEER'S DETAILS
- E30 REINFORCEMENT FOR INSITU CONCRETE TO STRUCTURAL ENGINEER'S DETAILS
- E40 DESIRED JOINTS IN INSITU CONCRETE TO STRUCTURAL ENGINEER'S DETAILS
- E41 WORKED FINISHES TO INSITU CONCRETE TO STRUCTURAL ENGINEER'S DETAILS
- E60 PRECAST/COMPOSITE CONCRETE FLOORS/ROOF DECKS TO STRUCTURAL ENGINEER'S DETAILS

- CONSERVATION OF FUEL AND POWER:** GENERALLY AS FOLLOWS:
- EXPOSED WALLS < 0.29M/AQZ MIN.
- FLOORS < 0.29M/AQZ MIN. TO CONDITIONED FLOOR PLATES

- ACCESSORIES /SANDRIES FOR BRICK / BLOCK / STONE WALLING**
F30 WALL TIES TO D0 140P22 TYPE 1 IN STAINLESS STEEL FROM ANCON OR SIMILAR APPROVED AS DETERMINED BY STRUCTURAL ENGINEER
PRECAST CONCRETE AND PREFABRICATED STEEL LIMITS: TO BS9777P2 - TO STRUCTURAL ENGINEER'S DETAILS

- STRUCTURAL / CARCASSING / METAL / TIMBER**
- G10 STRUCTURAL STEEL FRAMING TO STRUCTURAL ENGINEER'S DETAILS
- G12 ISOLATED STRUCTURAL METAL MEMBERS TO STRUCTURAL ENGINEER'S DETAILS
- G20 CARPENTRY / TIMBER FRAMING / FIRST FIXING TO STRUCTURAL ENGINEER'S DETAILS
- G30 METAL PROFILED SHEET DECKING TO STRUCTURAL ENGINEER'S DETAILS

- FIRE PROTECTION TO PRIMARY STRUCTURE TO BE COMBINATION OF INTumesCENT PAINT APPLICATION (GENERALLY TO EXPOSED COLUMNS) AND PLASTERBOARD (OR SIMILAR) BOILING TO BS4772 (GENERALLY TO BEAMS AND CONCEALED COLUMNS) AND CEILING AND FLOOR JOISTS IN ROCK WOLLEN WOOL OR SIMILAR. ALL IN ACCORDANCE WITH PART 8 OF THE UK BUILDING REGULATIONS. THE PLASTERBOARD SHALL BE 12.5MM PLASTERBOARD WITH STAGGERED JOINTS TO ACHIEVE A MINIMUM 1HR FR.**

- MECHANICAL HEATING AND VENTILATION:** THE PROPOSED MECHANICAL HEATING SYSTEM INCLUDES A HOLISTIC INSIDE NATURAL VENTILATION STRATEGY USING THE INTERNAL COURTYARD AS AN ALTERNATIVE COOLING AND HEAT SOURCE USING UNDERFLOOR HEATED TEMPERATURE CONTROLLED SUPPLY OPENINGS.

- ELECTRICAL WORK:** TO M+E ENGINEER'S DESIGN AND DETAILS
- DRAINAGE ABOVE GROUND:** AS INDICATIVELY SHOWN ON WSRM DRAWINGS AND TO M+E ENGINEER'S DESIGN AND DETAILS. ALL EXPOSED PIPE WORK TO BE GALVANIZED STEEL OR ALUMINIUM IN COLOUR AND PIPE SIZE AND SECTION TO BE
- DRAINAGE BELOW GROUND:** TO M+E ENGINEER'S DESIGN AND DETAILS

- FITTING OUT (GENERAL NOTE):** POSITIONS OF WHITE BOARDS ARE SHOWN INDICATIVELY FOR INFORMATION PURPOSES AND ARE STILL SUBJECT TO FINAL CLIENT REQUIREMENTS. ALL FITTING OUT SHALL BE INSTALLED AND FIRST FIX INSTALLATION FOR ALL POSSIBLE ALTERNATIVE LOCATIONS SHOWN.

FOR CONSTRUCTION

REV	DATE	AMENDMENTS
A	31.01.14	ISSUED FOR CONSTRUCTION
B	26.03.14	DRAINAGE/FALLS TO ROOF REVIEWED SQUARE PANELS INDICATED
C	11.04.14	GENERAL UPDATE

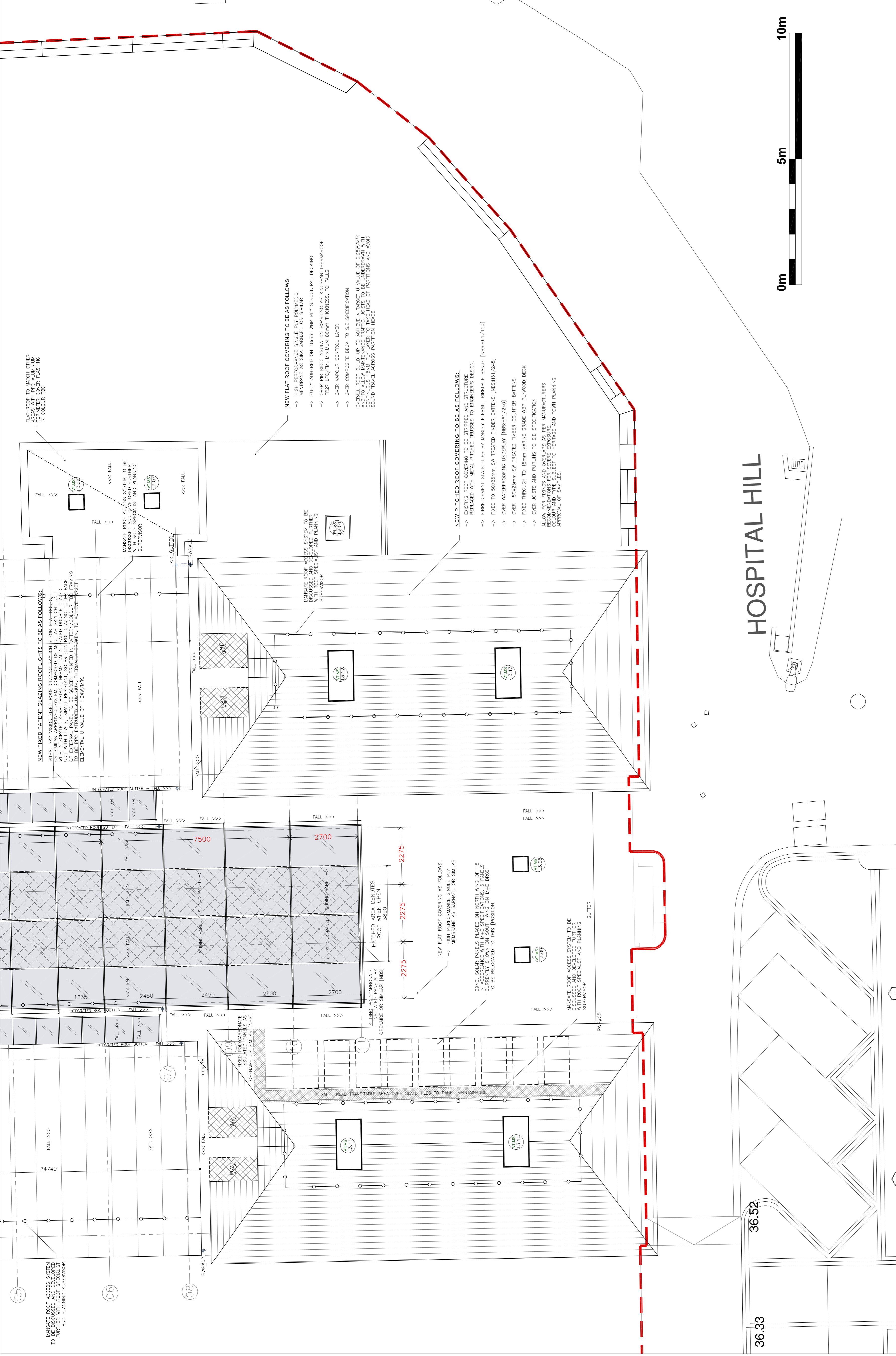
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CLIENT: **GOVERNMENT OF GIBRALTAR DEPARTMENT OF EDUCATION**

PROJECT: **ST BERNARDS SCHOOLS**

DRAWING TITLE: **PROPOSED ROOF PLAN [MIDDLE SCHOOL PARTIAL LAYOUT 2 OF 2]**

SCALE	JOB #	DRG. REF. NO.	REV
1:75@A1	G568	[5-052]	C
02.01.14			



ST BERNARDS - PROPOSED ROOF PLAN
MIDDLE SCHOOL PARTIAL LAYOUT 2 OF 2
FOR GENERAL LOCATION REFER TO :
WSRM DRG NO. G568(5-005)-GA-LVL-4-150
SCALE 1:75

CONSTRUCTION LEGEND:

- TERMAROOLA (TM) NBS F10/110
- COMMON BLOCKWORK NBS F10/250
- FAIRFACE STONE WALLING
- EXISTING CONCRETE
- REINFORCED CONCRETE
- PT02RHUV - CLEARESTORY H/V WINDOW (REF: XXXX)

KEY TO DIMENSIONS [IN M.M.] :

- 1450 - DENOTES CRITICAL DIMENSIONS TO STRUCTURE [1ST FIX]
- 1450 - DENOTES EXTERNAL DIMENSIONS TO STRUCTURE [1ST FIX]
- 1450 - DENOTES INTERNAL DIMENSIONS TO FINISH [2ND FIX]
- FFL+XX.XXX - FINISHED FLOOR LEVEL
- SSL+XX.XXX - STRUCTURAL SLAB LEVEL
- USL+XX.XXX - U/S STRUCTURAL SOFFIT LEVEL
- UCL+XX.XXX - U/S FINISHED LINING LEVEL
- ~XX.XXX - EXISTING FLOOR LEVELS [APPROX.]

KEY TO WALL LINING CONSTRUCTION :

- WALL PARTITION LINING TYPE 1: FEATHERED EDGE TAPE AND JOINTED [READY FOR PAINTING] 15MM GFC MEGACORBOARD ON 90/160GFC STUD BY LAPARCE OR SIMILAR, WITH 50MM 19KG/AZ ACUSTIC INSULATION []
- WALL PARTITION LINING TYPE 2: 15MM GFC MEGACORBOARD OVER 15MM EXTERNAL QUALITY PLYWOOD LINING ON 90/160GFC STUD BY LAPARCE OR SIMILAR, WITH 50MM 19KG/AZ ACUSTIC INSULATION []
- WALL PARTITION LINING TYPE 3: MODULAR ACUSTIC GRID CEILING SYSTEM FEATHERED EDGE TAPE AND JOINTED [READY FOR PAINTING] 15MM GFC MEGACORBOARD OVER 15MM EXTERNAL QUALITY PLYWOOD ON 90/160GFC STUD BY LAPARCE OR SIMILAR, WITH 50MM 19KG/AZ ACUSTIC INSULATION []
- WALL LINING TYPE 4: PLYWOOD ON 90/160GFC STUD BY LAPARCE OR SIMILAR, WITH 50MM 19KG/AZ ACUSTIC INSULATION []
- WALL LINING TYPE 5: CERAMIC TILE OVER GRC MOUNTED PAINTED MDF BOARD

CEILING FINISHES:

NBS REF.	DRG REF.	DESCRIPTION OF FINISHES:
M60/110	C01	SELF FINISH/PAINTED CONCRETE SOFFIT
K10/112	C02	ACUSTIC PAINTED PLASTERBOARD LINING
K10/105	C03	STANDARD EMULSION PAINTED P/B LINING
K10/106	C04	MOISTURE RESISTANT PAINTED P/B LINING
K40/105/108	C05	600x600 DEMOUNTABLE GRID CEILING SYSTEM
K40/107	C06	MODULAR ACUSTIC GRID CEILING SYSTEM
K40/106	C07	600x600 MOISTURE RESIST GRID CEILING SYSTEM
M20/160	C08	RENDERED EXTERNAL SOFFIT CLADDING BOARD

SKIRTING FINISHES:

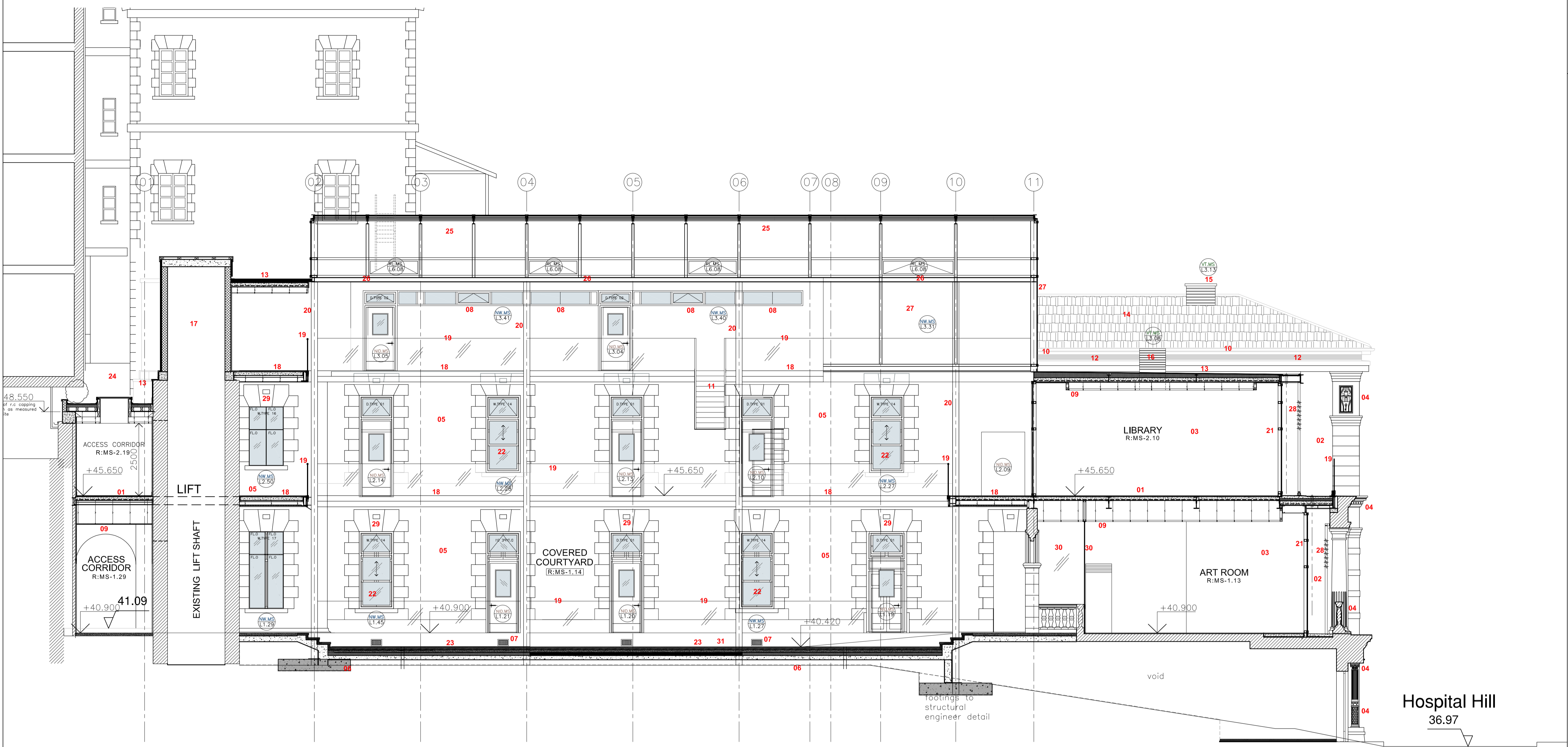
NBS REF.	DRG REF.	DESCRIPTION OF FINISHES:
P20/120	S01	SURFACE MOUNTED PAINTED MDF BOARD
P20/120	S02	RECESSED PAINTED MDF BOARD
M40/111	S03	CERAMIC TILE
M50/150	S04	COVERED VINYL SKIRTING

WALL FINISHES:

NBS REF.	DRG REF.	DESCRIPTION OF FINISHES:
M60/110	W01	PAINTED MASONRY/CONCRETE BLOCKS/WALLS
M60/111	W02	PAINTED RENDER FINISH
M60/100	W03	WASHABLE EMULSION PAINTED LINING
M60/101	W04	MOISTURE RESISTANT PAINTED LINING
XX	W05	MIRROR ON PLYWOOD BACKING
M40/110	W06	FULL HEIGHT CERAMIC WALL TILING
M21/210	W07	ELASTOMERIC S/COLOUR RENDER FINISH OVER EXISTING WALLS
M20/160	W08	ELASTOMERIC S/COLOUR RENDER FINISH OVER EXISTING WALLS
M60/170	W09	Sika GUARD WATER REPELLANT IMPREGINATION TO STONE WALLS
SPECIALIST	W10	SPECIALIST TREATMENT TO EXISTING HERITAGE FEATURES
K32/120	W11	SELF FINISH HIGH PRESSURE SOLID CORE RESIN LAMINATE
K12/160	W12	SELF FINISH ACUSTIC LINING BOARD
M40/111	W13	CERAMIC TILING TO APPROX. 2M HEIGHT + W3 ABOVE
M20/160	W14	ELASTOMERIC S/COLOUR RENDER FINISH OVER GFC AQUABOARD

FLOOR FINISHES:

NBS REF.	DRG REF.	DESCRIPTION OF FINISHES:
M40/110	F01	NON SLIP CERAMIC FLOOR TILING
M12/110	F02	Sika STANDARD COMFORT RESIN FLOOR
M12/111	F03	Sika NON-SLIP COMFORT RESIN FLOOR
M12/112	F04	Sika PRO-COMPART RESIN FLOOR
M12/113	F05	Sika 264 2 PART EPOXY RESIN
Q24/110	F06	BRENCO LOSA VOLCANO 4005X20MM
N10/300	F07	BARRIER ENTRANCE MATTING
K21/141	F08	4.5MM UPVC PARALEX(45) SPORTS FLR
M12/114	F09	Sika PULASTIC POLYURETHANE FLOOR
M12/115	F10	Sika REGUPOL SHOOPAD FLOORING
L10/460	F11	WALK ON GLASS/ROOF LIGHTS
M50/150	F12	NON-SLIP VINYL
M50/150	F13	NOM. 100MM DRAINED RUBBER CRUMB
M50/150	F14	HIGH QUALITY POWER FLOATED CONCRETE



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ST BERNARDS SCHOOLS
SECTION 02
LONGITUDINAL SECTION THROUGH MIDDLE SCHOOL ATRIUM SPACE
Scale 1:75

NBS REF CONSTRUCTION NOTES

- S.E SPEC M12/100** 01 NEW STRUCTURAL SEPARATING FLOORS TO REPLACE EXISTING TIMBER FLOOR CONSTRUCTION AS STRUCTURAL ENGINEERS DETAILS COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR OVER STEEL JOISTS SUPPORTED OFF PADSTONES TO S.E DETAIL, WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS ETHANAM, WITH 14mm BOARDING AND HEAVY DUTY RESIN FLOORING FINISH, SEPARATING FLOORS TO BE UNDERLINED WITH SUSPENDED EXPOSED GRID AND TILE CEILING SYSTEM GENERALLY UNLESS OTHERWISE SPECIFIED, SEPARATING FLOOR BUILD-UP TO ACHIEVE A PERFORMANCE R_w RANGE LEVEL OF 55-60 (DB) SEPARATING FLOOR BUILD-UP TO ACHIEVE A MINIMUM FIRE RATING OF 60MIN, ALLOW FOR SERVICES PENETRATIONS AND FIRE DAMPERS/COLLARS.
- M20/160** 02 EXISTING EXTERNAL MASONRY WALLS GENERALLY THAT ARE TO REMAIN AS EXTERNAL, TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
- K10/100 M60/100** 03 EXISTING EXTERNAL WALLS (REMAINING EXTERNAL) TO BE LINED INTERNALLY WITH INSULATION-BACKED HIGH IMPACT RESISTANT PLASTERBOARD, CLASS 0 FIRE RATED, AS CYPROD THERMALINE PIR, APPROX 50mm THICK OVERALL, WITH INTERNAL VAPOUR MEMBRANE, TAPED AND JOINTED, FIXED THROUGH TO EXISTING WALL ON 25mm DEEP OMEGA RAIL FRAMING WITH COMPRESSED ROCKWOOL INFILL OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL U VALUE OF 0.40W/M²K OR BETTER, ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.
- SPECIALIST** 04 ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
- M20/160** 05 EXISTING EXTERNAL WALLS WHICH ARE TO REMAIN AS INTERNAL TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
- C45/220** 06 ALLOW FOR CONTINUOUS DPM TO BE TAKEN UP AND LAPPED/SEALED INTO INJECTED DPC AT MINIMUM 150MM ABOVE EXTERNAL FFL.
- L10/--** 07 ALLOW FOR FORMING OF VENT HOLES WITHIN EXISTING WALLS INCLUDING PERFORATED STAINLESS STEEL (OR SATIN NICKEL) GRILLES WITH INTEGRATED INSECT MESH, COLOUR, MATERIAL, TBC SUBJECT TO APPROVAL OF SAMPLE.
- L10/--** 08 HIGH LEVEL DOUBLE GLAZED ALUMINIUM FRAMED OPENABLE AND FIXED CLERESTORY WINDOWS TO AID NATURAL VENTILATION INCLUDING INTEGRATED AUTOMATED DIM-OUT BLINDS AS SILENTGLASS OR SIMILAR APPROVED.
- K40/105** 09 NEW CEILINGS GENERALLY TO BE MF CEILING EXPOSED GRID AND TILE SYSTEM BY ARMBRONG, CORTEXE REGULAR EDGE OR SIMILAR APPROVED PRODUCT, REFER TO CAS FOR CEILING TYPES.
- M&E SPEC** 10 ALLOW FOR INTEGRATED VENTILATION GRILLES FOR PASSIVE STACK VENTILATION TO UPPER FLOOR CLASSROOMS TO NEW BUILDINGS.
- M&E SPEC** 11 ALLOW FOR DEEP-FLOW PPC ALUMINIUM GUTTERS AND DOWNPIPES WITH CONCEALED JOINTS AND WALL FIXINGS AS ALUMASC OR SIMILAR

NBS REF CONSTRUCTION NOTES

- S.E SPEC K40/107 M12/100** 11 NEW FEATURE CIRCULATION STAIRWAYS SPANNING BETWEEN WALKWAYS IN ATRIUM TO BE CONSTRUCTED IN STRUCTURAL STEEL STRINGERS TO S.E SPEC WITH FRAMELESS GLAZED BALUSTRADES STAINLESS STEEL CAPRALES, WITH CONCEALED SUPPORT ANGLES, SUPPORTING TREADS TO BE FORMED FROM 42mm THICK SOLID HARDWOOD TREADS AND FINISHED IN CLEAR MATT LAQUER, TO WITHSTAND LOADS TO S.E CALCULATION, WITH 30x 250mm SS ANTI-SLIP INSERT STRIPS TO EACH TREAD, OVERALL STAIR AND BALUSTRADE DESIGN TO COMPLY WITH APPROVED DOCUMENTS PART 4 AND PART 5 OF UK BUILDING REGULATIONS, ALLOW FOR FACTORY APPLIED PAINTING OF STRUCTURAL STEEL WITH SMOOTH FINISH INTUMESCENT COATING AS NULIFIRE OR SIMILAR.
- L10/650** 12 ROOF VENTILATION LOUVERES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON, OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.
- J42/130** 13 NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID PIR INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.
- H61/115** 14 EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY EVERETT SLATE BIRKDALE RANGE, ALLOW FOR 50x25mm TREATED SW TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERBATTENS OVER 18mm WBP MARINE GRADE PLYWOOD DECKING OVER LIGHT GAUGE FACING SPANNING BETWEEN HOT ROLLED STEEL BATTERS TO S.E DETAIL AND SPECIFICATION, ALLOW FOR FIXINGS AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE, COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES.
- L10/650 J42/130** 15 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH, ROOF SAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.
- L10/490** 16 PPC ALUMINIUM NATURAL LOUVERED STACK VENTILATION TERMINALS WITH MOTORISED, TEMP & CO2 CONTROLLED ASSISTED FAN AND CONTROLLABLE INSULATED INTERNAL LOUVERS, AS AIRSTRACT MECHANICAL EXTRACT TERMINAL BY PASSIVENT OR SIMILAR, ALLOW FOR 1 TERMINAL PER CLASSROOM TO SCHOOLS UPPER LEVELS, AND 1 TERMINAL PER APPROX 15M OF CORRIDOR RUNS TO UPPER LEVELS OF SCHOOLS, ALLOW FOR STEELWORK TIMBERS FOR TERMINAL UNIT SUPPORTS AND TREATED SW TIMBER FRAMING FOR PLASTERBOARD SHIRT, ALLOW FOR CEILING LEVEL GRILLE TO SHIRT BASE.
- M&E SPEC** 17 LIFTS GENERALLY TO BE MACHINE ROOM-LESS, 8 PERSON AND 12 PERSON CAPACITY LIFT PART N COMPLAINT, AS OTIS GEN2 OR SIMILAR APPROVED MANUFACTURER.
- S.E SPEC K40/107 M12/100** 18 NEW RAISED WALKWAYS WITHIN COVERED COURTYARD TO BE AS STRUCTURAL ENGINEERS DETAILS, OF LIGHTWEIGHT CONSTRUCTION AS LIGHT GAUGE STEEL WITH COMPOSITE DECK AS HOLORIB OR SIMILAR, TIED TO HOT ROLLED STEEL STRUCTURE TO S.E DETAIL, WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS ETHANAM, WITH 20mm 14-8 BOARDING AND HEAVY DUTY RESIN FLOORING FINISH, WALKWAYS TO BE UNDERLINED WITH ACOUSTIC CEILING PANELS AS ECOMON MASTER RIGID OF SEMI CONCEALED GRID SYSTEM OR SIMILAR ACOUSTIC MODULAR LINING, ALLOW FOR FIRE-FORMED SATIN STAINLESS STEEL CAPPING DETAIL TO SLAB EDGES.

NBS REF CONSTRUCTION NOTES

- L30/520** 19 BALUSTRADE TO BE FRAMELESS GLAZED PANELS AS 'O'-RAILING EASY GLASS SYSTEM' OR SIMILAR, IN LAMINATED SAFETY GLAZING TO COMPLY WITH UK APPROVED DOC PART N AND PART K OF THE BUILDING REGULATIONS, WITH CONTINUOUS PROPRIETARY STAINLESS STEEL FIXING SHOE AND CAPRALES.
- M61/110** 20 CIRCULAR STEEL COLUMNS TO STRUCTURAL ENGINEERS DETAIL DESIGN TO BE FINISHED WITH FACTORY APPLIED PAINTING IN SMOOTH FINISH INTUMESCENT COATING AS NULIFIRE OR SIMILAR.
- H11/110** 21 PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF TECHNICAL REF 550 SYSTEM, ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLASS OR SIMILAR.
- L10/--** 22 PROPRIETARY COMPOSITE TIMBER FRAME CURTAIN WALLING SASH WINDOWS AND FIXED PANE DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM, ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLASS OR SIMILAR.
- Q24/110** 23 INTERNAL ATRIUM FLOOR FINISH COMPRISING OF PAVING SLAB FINISH OVER 100mm SAND CEMENT SCREED WITH EMBEDDED CHILLING/HEATING PIPEWORK TO MAKE DESIGN OVER 100mm NON-COMPRESSIBLE INSULATION AS KINGSPAN THERMAFLOOR TFD0 OR SIMILAR OVER SUSPENDED BEAM AND BLOCK CONSTRUCTION TO S.E DETAIL.
- L10/460** 24 VITRAL SKY VISION FIXED ROOF GLAZING SKYLIGHTS FOR FLAT ROOFS, OR SIMILAR APPROVED SYSTEM, COMPRISED OF MODULAR SKYLIGHT UNIT WITH INTEGRATED KERB UPSTAND, HERMETICALLY SEALED DOUBLE GLAZED UNIT WITH LOW E, IMPACT RESISTANT, SOLAR CONTROL GLAZING, OUTER FACE OF EXTERNAL PANEL TO BE SCREEN PRINTED IN PATTERN/COLOUR TBC FRAMING TO BE PPC EXTRUDED ALUMINIUM, THERMALLY BROKEN, TO ACHIEVE TARGET ELEMENTAL U VALUE OF 1.24W/M²K.
- M&E SPEC** 25 FEATURE ATRIUM ROOF COVERING, CENTRE-OPENING THERMALLY BROKEN ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS SPENARBY OR SIMILAR, AUTOMATICALLY OPERATED WITH TEMP CONTROL, AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN.
- M&E SPEC** 26 ALLOW FOR FEATURE MOTORISED SOLAR SHADING BLINDS TO UNDERSIDE OF RETRACTABLE ROOF OVER COURTYARD AND TO CONTINUOUS ROOFLIGHT TO UPPER CIRCULATION AREA OF PRIMARY SCHOOL, AS SILENTGLASS OR SIMILAR, ALLOW FOR SUPPORT / CABLE/ RAIL REQUIREMENTS AS PER MANUFACTURERS DETAIL.
- M&E SPEC** 27 FEATURE ATRIUM VERTICAL PANELS IN THERMALLY BROKEN ALUMINIUM WITH POLYCARBONATE SECTIONS, ALLOW FOR APPROX 50% OF PANELS TO BE OPERABLE AND AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN, ALLOW FOR GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLASS OR SIMILAR.
- M&E SPEC** 28 EXTERNAL AUTOMATED CONTROLLABLE BRISE SOLEIL AS TECHNICAL SUNGLOR OR SIMILAR EXTERNAL PPC ALUMINIUM LOUVER SYSTEM, ALLOW FOR SECONDARY STEELWORK SUPPORT SYSTEM.
- M&E SPEC** 29 EXISTING VENT HOLES TO BE RETAINED TO AID IN NATURAL VENTILATION STRATEGY, ALLOW FOR STAINLESS STEEL PERFORATED GRILLES WITH INTEGRATED INSECT MESH.
- M&E SPEC** 30 DOUBLE GLAZED CURTAIN WALLING SURROUNDING EXISTING FEATURE BALUSTRADE FORMING ART DISPLAY AREA, ALLOW FOR FEATURE DISPLAY LIGHTING.
- M&E SPEC** 31 ALLOW FOR SURFACE DRAINAGE TO ATRIUM FLOOR TO M&E DETAILS AND SPEC.

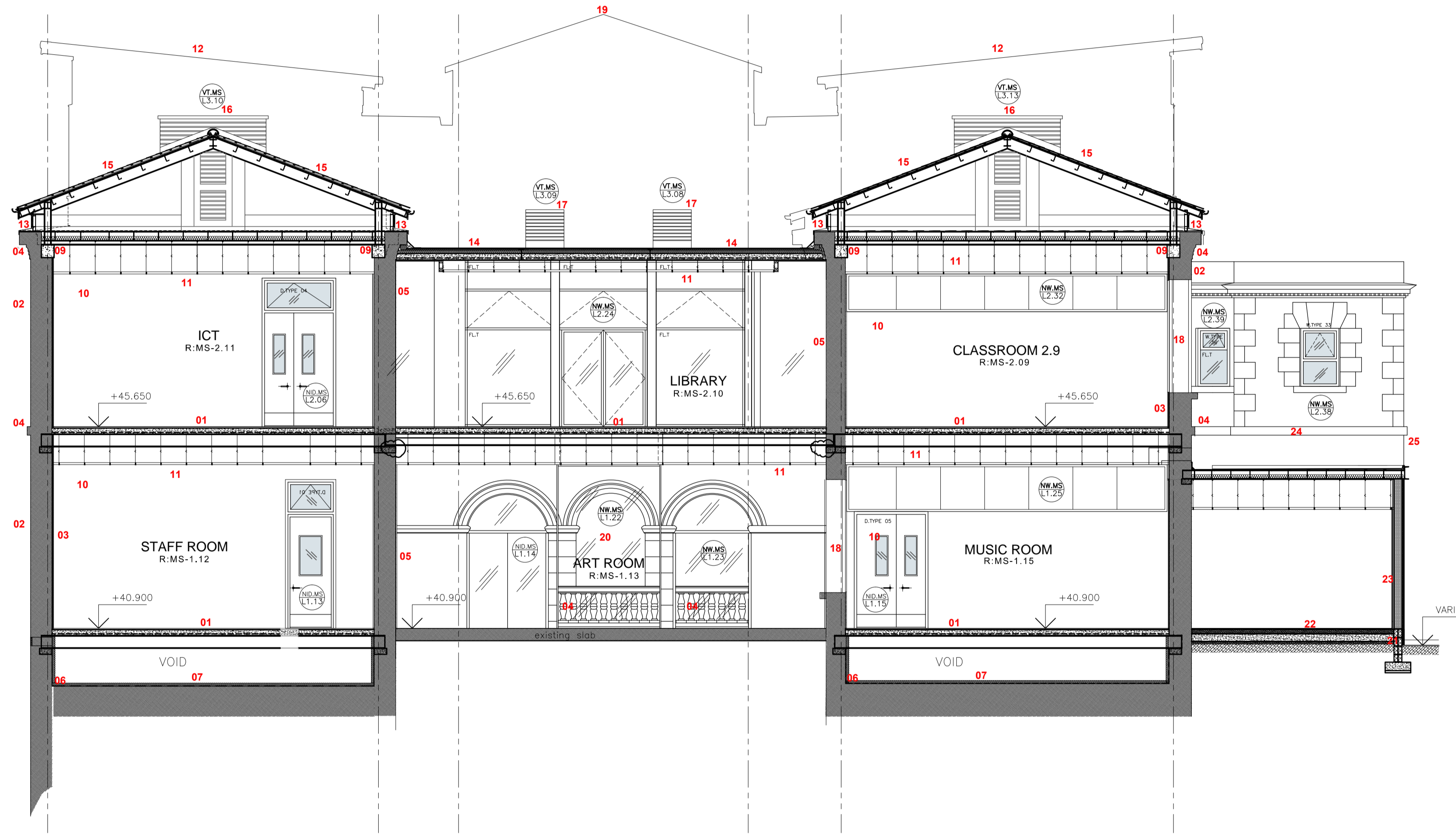
FOR CONSTRUCTION

rev	date	amendments
A	31.01.2014	ISSUED FOR CONSTRUCTION
B	11.04.2014	D+W REFERENCES ADDED
C	02.05.2014	D+W ADDITIONAL REFS ADDED

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CLIENT	GOVERNMENT OF GIBRALTAR DEPARTMENT OF EDUCATION	
PROJECT	ST BERNARDS SCHOOLS	
DRAWING TITLE	PROPOSED SECTIONS SECTION 02	
SCALE	JOB + DRG REF No.	REV
1:75@A1	G568[8-002]-SX-02-75	C
DATE		
09.01.14		

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ST BERNARDS SCHOOLS
SECTION 03
CROSS SECTION THROUGH MIDDLE SCHOOL [WEST]
Scale 1:75

- NBS REF** **CONSTRUCTION NOTES**
- S.E SPEC M12/100** **01** NEW STRUCTURAL SEPARATING FLOORS TO REPLACE EXISTING TIMBER FLOOR CONSTRUCTION AS STRUCTURAL ENGINEERS DETAILS, COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR OVER STEEL JOISTS SUPPORTED OFF FASTONERS TO S.E DETAIL, WITH 10mm IMPACT SOUND ACUSTIC LAYER AS ETHAFON, WITH 20mm T+G BOARDING AND HEAVY DUTY RESIN FLOORING FINISH. SEPARATING FLOORS TO BE UNDERLINED WITH SUSPENDED EXPOSED GRID AND TILE CEILING SYSTEM GENERALLY UNLESS OTHERWISE SPECIFIED. SEPARATING FLOOR BUILD-UP TO ACHIEVE A PERFORMANCE R_w RANGE LEVEL OF 55-60 (dB). SEPARATING FLOOR BUILD-UP TO ACHIEVE A MINIMUM FIRE RATING OF 60MIN. ALLOW FOR SERVICES PENETRATIONS AND FIRE DAMPERS/COLLARS.
 - M20/160** **02** EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - K10/100 M60/100** **03** EXISTING EXTERNAL WALLS (REMAINING EXTERNAL) TO BE LINED INTERNALLY WITH INSULATION-BACKED HIGH IMPACT RESISTANT PLASTERBOARD, CLASS 0 FIRE RATED, AS GYPROC THERMALINE FR APPROX 35mm THICK OVERALL, WITH INTEGRAL VAPOUR MEMBRANE, TAPED AND JOINTED, FIXED THROUGH TO EXISTING WALL ON 25mm DEEP OMEGA RAIL FRAMING WITH COMPRESSED ROCKWOOL INFILL OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.40W/M²K OR BETTER. ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.
 - SPECIALIST** **04** ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
 - M20/160** **05** EXISTING EXTERNAL WALLS WHICH ARE TO REMAIN AS INTERNAL TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - C45/220** **06** ALLOW FOR CONTINUOUS DPM TO BE TAKEN UP AND LAPPED/SEALED INTO INJECTED DPC AT MINIMUM 150MM ABOVE EXTERNAL FFL.
 - J40/142** **07** FOIL FACED RIGID INSULATION BOARDS OVER SEPARATING LAYER ON CONTINUOUS DPM AS KINGSPAN THERMAFLOOR T770, 60mm THICK.
 - S.E SPEC** **08** ALLOW FOR FORMING OF VENT HOLES WITHIN EXISTING WALLS INCLUDING PERFORATED STAINLESS STEEL (OR SATIN NICKEL) GRILLES WITH INTEGRATED INSECT MESH. COLOUR, MATERIAL TBC SUBJECT TO APPROVAL OF SAMPLE.
 - S.E SPEC** **09** NEW R.E. RING BEAM SET INTO TOP OF EXISTING WALL TO TAKE NEW HOT ROLLED STEEL FRAME FOR NEW ROOF STRUCTURE ALL TO STRUCTURAL ENGINEERS DETAIL AND SPECIFICATION.
 - K10/100 M60/100** **10** INTERNAL PARTITIONS BETWEEN CLASSROOMS GENERALLY TO BE CONSTRUCTED FROM METAL STUD PARTITION SYSTEM BY METSEC OR SIMILAR APPROVED, CONSISTING OF METAL STUD FRAMING AS 90mm GTEC STUD AT 600mm CTS OR SIMILAR, WITH ACOUSTIC INSULATION INFILL TO ACHIEVE SOUND INSULATION THROUGHOUT OF 51 OR BETTER WITH 1 LAYER TO EITHER SIDE, OF 15mm WBP PLY TO FACILITATE WALL FIXING AND FEATHERED EDGE MEGASECO BOARD FOR SEVERE DUTY, 60 MM RATED, TO BE TAPED JOINTED AND FILLED TO RECEIVE PAINT FINISH AS SPECIFIED IN FINISHES SCHEDULES. ALLOW FOR STUD PARTITIONS TO BE BUILT UP TO UNDERSIDE OF FLOORS (PROOF LING ABOVE, INCLUDING DEFLECTION HEAD DETAIL, AND ACOUSTIC PROFILE FILLERS TO HEAD AND ACOUSTIC SEALANT TO BASES AND SERVICES PENETRATIONS. FOR PENETRATIONS THROUGH FIRE COMPARTMENTATION WALLS ALLOW FOR FIRE DAMPERS/COLLARS AND FIRE RATED FILLERS. REFER TO G.A DRAWINGS FOR LOCATION OF PARTITION TYPES.
 - K40/105** **11** NEW CEILINGS TO CLASSROOMS GENERALLY TO BE MF CEILING EXPOSED GRID AND TILE SYSTEM BY ARMSTRONG, CORTEGA -REGULAR EDGE OR SIMILAR APPROVED PRODUCT. ALLOW FOR INTEGRATED VENTILATION GRILLES FOR PASSIVE STACK VENTILATION TO UPPER FLOOR CLASSROOMS TO NEW BUILDINGS.
 - H43/122** **12** NEW EXTENSION MONOPITCH ROOFS WITH VENTILATED VOIDS FORMED FROM KINGSPAN KS1000ZP STANDING SEAM 45mm THICK COMPOSITE ROOF PANELS FIXED AT 1000MM CENTRES TO LIGHT GAUGE STEEL PURLINS TO SPECIALIST'S DESIGN & SPECIFICATION OVER HOT ROLLED STEEL FRAME TO S.E DETAILS AND SPEC. PURLIN DEPTH TO BE CONFIRMED BY SPECIALIST. FINISH TBC SUBJECT TO APPROVAL OF SAMPLES. ALLOW FOR PROPRIETARY MONORIDGE AND FASCIA FLASHING DETAILS. PFC ALUMINIUM SOFFIT PANELS AND TRIMS FIXED THROUGH TO LIGHT GAUGE STEEL SECTIONS SPANNING BETWEEN OVERHANG STUBS.
 - L10/650** **13** ROOF VENTILATION LOUVRES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PFC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR TO INCLUDE INTEGRATED INSECT/TERMIN MESH.
 - J42/130** **14** NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID FIRE INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.
 - H61/115** **15** EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIRKDALE RANGE. ALLOW FOR 50x25mm TREATED SW TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERTERRACES OVER 18mm WBP MARINE GRADE PLYWOOD DECKING OVER LIGHT GAUGE FACING SPANNING BETWEEN HOT ROLLED STEEL BATTENS TO S.E DETAIL AND SPECIFICATION. ALLOW FOR FIXINGS AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE, COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES.
 - L10/650 J42/130** **16** ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PFC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH. ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.
 - L10/490 M&E SPEC** **17** PFC ALUMINIUM NATURAL LOUVERED STACK VENTILATION TERMINALS WITH MOTORISED, TEMP & CO2 CONTROLLED ASSISTED FAN AND CONTROLLABLE INSULATED INTERNAL LOUVRES, AS AIRSTRACT MECHANICAL EXTRACT TERMINAL BY PASSIVENT OR SIMILAR. ALLOW FOR 1 TERMINAL PER CLASSROOM TO SCHOOLS UPPER LEVELS, AND 1 TERMINAL PER APPROX 15M OF CORRIDOR RUNS TO UPPER LEVELS OF SCHOOLS. ALLOW FOR STEELWORK TRIMMERS FOR TERMINAL UNIT SUPPORTS AND TREATED SW TIMBER FRAMING FOR PLASTERBOARD SHAFT. ALLOW FOR CEILING LEVEL GRILLE TO SHAFT BASE.
 - L10/--** **18** NEW WINDOWS GENERALLY IN EXISTING BUILDING TO BE PROPRIETARY, COMPOSITE TIMBER FRAME CURTAIN WALLING TLT & TURN WINDOWS AND FIXED FRAME DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTLISS OR SIMILAR.
 - H11/110** **19** FEATURE ATRIUM ROOF COVERING, CENTRE-OPENING SLIDING THERMALLY BROKEN ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS 'OPENARE' OR SIMILAR, AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO M&E DETAIL DESIGN.
 - S.E SPEC J40/142** **20** DOUBLE GLAZED CURTAIN WALLING SURROUNDING EXISTING FEATURE BALUSTRADE FORMING ART DISPLAY AREA. ALLOW FOR FEATURE DISPLAY LIGHTING.
 - M40/110** **21** NEW GROUND BEARING, STEEL REINFORCED CONCRETE SLAB TO STRUCTURAL ENGINEERS DETAIL AND SPECIFICATION OVER CONTINUOUS DPM OVER BUILDING AND HARDSCAPE. DPM TO BE TAKEN UP EDGES OF FLOOR SLAB AND TUCKED IN TO BASE OF THERMAL CLAY BLOCK WALL.
 - F10/110 M21/210 K10/100** **22** FLOOR FINISH OVER MESH REINFORCED FLOATING SCREED OVER 25mm THICK RIGID INSULATION LAYER AS KINGSPAN THERMAFLOOR T770 OR SIMILAR APPROVED.
 - J42/130** **23** NEW EXTENSION WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TERMOARCILLA OR SIMILAR, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBERTHERM XM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U'VALUE TARGET). CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEGASECO BOARD BY LAPANGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35W/m²K.
 - S.E SPEC** **24** FLAT ROOF CONSTRUCTION COMPRISING OF CONTINUOUS SINGLE PLY WATERPROOF MEMBRANE OVER 18mm MARINE GRADE WBP PLYWOOD BASE FIXED THROUGH TREATED SW TIMBER NOGGINS TO ACHIEVE 180 FALLS OVER LIGHT GAUGE STEEL PURLINS SPANNING BETWEEN HOT ROLLED STEEL ROOF JOISTS. ROOF STRUCTURE TO BE UNDERDRAWN WITH VAPOUR BARRIER AND 18mm WBP MARINE GRADE PLYWOOD LAYER, WITH 150mm ROCKWOOL QUILT INFILL INSULATION.
 - S.E SPEC** **25** FEATURE PFC TO EDGE OF FLAT ROOF

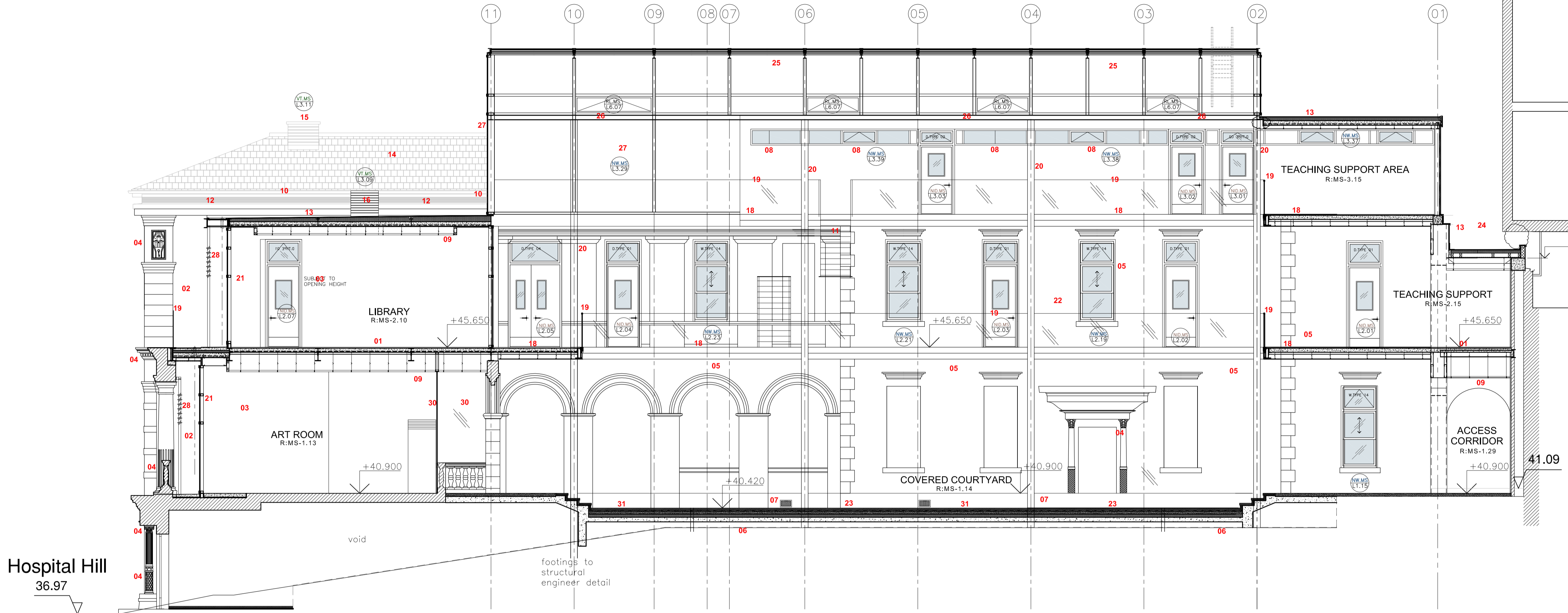
FOR CONSTRUCTION

rev	date	amendments
A	31.01.2014	ISSUED FOR CONSTRUCTION
B	11.04.2014	D+W REFERENCES ADDED

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CLIENT	GOVERNMENT OF GIBRALTAR DEPARTMENT OF EDUCATION	
PROJECT	ST BERNARDS SCHOOLS	
DRAWING TITLE	PROPOSED SECTIONS SECTION 03	
SCALE	JOB + DRG REF No.	REV
1:75@A1	G566[8-003]-SX-03-75	B
DATE		
09.01.14		

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Hospital Hill
36.97

ST BERNARDS SCHOOLS
SECTION 04
LONGITUDINAL SECTION THROUGH MIDDLE SCHOOL ATRIUM SPACE
Scale 1:75

- NBS REF CONSTRUCTION NOTES**
- 01** NEW STRUCTURAL SEPARATING FLOORS TO REPLACE EXISTING TIMBER FLOOR CONSTRUCTION, AS STRUCTURAL ENGINEERS DETAILS, COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR OVER STEEL JOISTS SUPPORTED OFF FASTENERS TO S.E. DETAIL, WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS ETHAFORM, WITH 20mm T&G BOARDING AND HEAVY DUTY RESIN FLOORING FINISH. SEPARATING FLOORS TO BE UNDERLINED WITH SUSPENDED EXPOSED GRID TILE CEILING SYSTEM GENERALLY UNLESS OTHERWISE SPECIFIED. SEPARATING FLOOR BUILD-UP TO ACHIEVE A PERFORMANCE R_w RANGE LEVEL OF 55-60 (dB) - SEPARATING FLOOR BUILD-UP TO ACHIEVE A MINIMUM FIRE RATING OF 60MIN. ALLOW FOR SERVICES PENETRATIONS AND FIRE DAMPERS/COLLARS.
 - 02** EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - 03** EXISTING EXTERNAL WALLS (REMAINING EXTERNAL) TO BE LINED INTERNALLY WITH INSULATION-BACKED HIGH IMPACT RESISTANT PLASTERBOARD, CLASS 0 FIRE RATED, AS CYPROCK THERMALINE PIR, APPROX 38mm THICK OVERALL, WITH INTEGRAL VAPOUR MEMBRANE, OMEGA RAIL FRAMING WITH COMPRESSED ROCKWOOL INFILL. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL U_v VALUE OF 0.40W/M²K OR BETTER. ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.
 - 04** ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
 - 05** EXISTING EXTERNAL WALLS WHICH ARE TO REMAIN AS INTERNAL TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - 06** ALLOW FOR CONTINUOUS DPM TO BE TAKEN UP AND LAPPED/SEALED INTO INJECTED DPC AT MINIMUM 150MM ABOVE EXTERNAL FFL.
 - 07** ALLOW FOR FORMING OF VENT HOLES WITHIN EXISTING WALLS INCLUDING PERFORATED STAINLESS STEEL (OR SATIN NICKEL) GRILLES WITH INTEGRATED INSECT MESH. COLOUR, MATERIAL TBC SUBJECT TO APPROVAL OF SAMPLE.
 - 08** HIGH LEVEL DOUBLE GLAZED ALUMINIUM FRAMED OPENABLE AND FIXED CLERESTORY WINDOWS TO AID NATURAL VENTILATION INCLUDING INTEGRATED AUTOMATED DM-OUT BLINDS AS SILENTLUS OR SIMILAR APPROVED.
 - 09** NEW CEILINGS GENERALLY TO BE MF CEILING EXPOSED GRID AND TILE SYSTEM BY ARMSTRONG, CORTEGA - REGULAR EDGE OR SIMILAR APPROVED PRODUCT. REFER TO G-AS FOR CEILING TYPES.
 - 10** ALLOW FOR DEEP-FLOW PPC ALUMINIUM OUTTERS AND DOWNPIPS WITH CONCEALED DOTS AND WALL FIXINGS AS ALUMASC OR SIMILAR

- NBS REF CONSTRUCTION NOTES**
- 11** NEW FEATURE CIRCULATION STAIRWAYS SPANNING BETWEEN WALKWAYS IN ATRIUM TO BE CONSTRUCTED IN STRUCTURAL STEEL STRINGERS TO S.E SPEC WITH FRAMELESS GLAZED BALUSTRADING STAINLESS STEEL CAPRALS, WITH CONCEALED SUPPORT ANGLES, SUPPORTING TREADS TO BE FORMED FROM 42mm THICK SOLID HARBORWOOD TREATED AND FINISHED IN CLEAR MATT LAQUER, TO WITHSTAND LOADS TO S.E CALCULATION, WITH 3x3=24mm SS ANTI-SLIP INSERT STRIPS TO EACH TREAD. OVERALL STAIR AND BALUSTRADING DESIGN TO COMPLY WITH APPROVED DOCUMENTS PART 4 AND PART 11 OF UK BUILDING REGULATIONS. ALLOW FOR FACTORY APPLIED PAINTING OF STRUCTURAL STEEL WITH SMOOTH FINISH INTUMESCENT COATING AS NULLIFIRE OR SIMILAR.
 - 12** ROOF VENTILATION LOUVERES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.
 - 13** NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID PIR INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.
 - 14** EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIRE CEMENT TILES BY MARLEY ETERNIT SLATE BIRKDALE RANGE, ALLOW FOR 50x25mm TREATED SW TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERBATTENS OVER 18mm WBP MARINE GRADE PLYWOOD BEACING OVER LIGHT GAUGE FRAMING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E DETAIL AND SPECIFICATION. ALLOW FOR FINISHES AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE. COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES.
 - 15** ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS INSECT AND VERMIN MESH. ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.
 - 16** PPC ALUMINIUM NATURAL LOUVERED STACK VENTILATION TERMINALS WITH MOTORISED, TEMP & CO2 CONTROLLED ASSISTED FAN AND CONTROLLABLE INSULATED INTERNAL LOUVER, AS AIRTRACT MECHANICAL EXTRACT TERMINAL BY PASSIVENT OR SIMILAR. ALLOW FOR 1 TERMINAL PER CLASSROOM TO SCHOOLS UPPER LEVELS, AND 1 TERMINAL PER APPROX 15M OF CORRIDOR RUNS TO UPPER LEVELS OF SCHOOLS. ALLOW FOR STEELWORK TRIMMERS FOR TERMINAL UNIT SUPPORTS AND TREATED SW TIMBER FRAMING FOR PLASTERBOARD SHIRT, ALLOW FOR CEILING LEVEL GRILLE TO SHAFT BASE.
 - 17** LIFTS GENERALLY TO BE MACHINE ROOM-LESS, 8 PERSON AND 12 PERSON CAPACITY LIFT, PART N COMPLIANT, AS OTIS GEN2 OR SIMILAR APPROVED MANUFACTURER.
 - 18** NEW RAISED WALKWAYS WITH COVERED COURTYARD TO BE AS STRUCTURAL ENGINEERS DETAILS, OF LIGHTWEIGHT CONSTRUCTION AS LIGHT GAUGE STEEL, WITH COMPOSITE DECK AS HOBLORE OR SIMILAR, TIED TO HOT ROLLED STEEL STRUCTURE TO S.E DETAIL, WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS ETHAFORM, WITH 20mm T&G BOARDING AND HEAVY DUTY RESIN FLOORING FINISH. WALKWAYS TO BE UNDERLINED WITH ACOUSTIC CEILING PANELS AS SCOPHON MASTER RIG DP SEM CONCEALED GRID SYSTEM OR SIMILAR ACOUSTIC MODULAR LINING, ALLOW FOR PRE-FORMED SATIN STAINLESS STEEL CAPPING DETAIL TO SLAB EDGES.

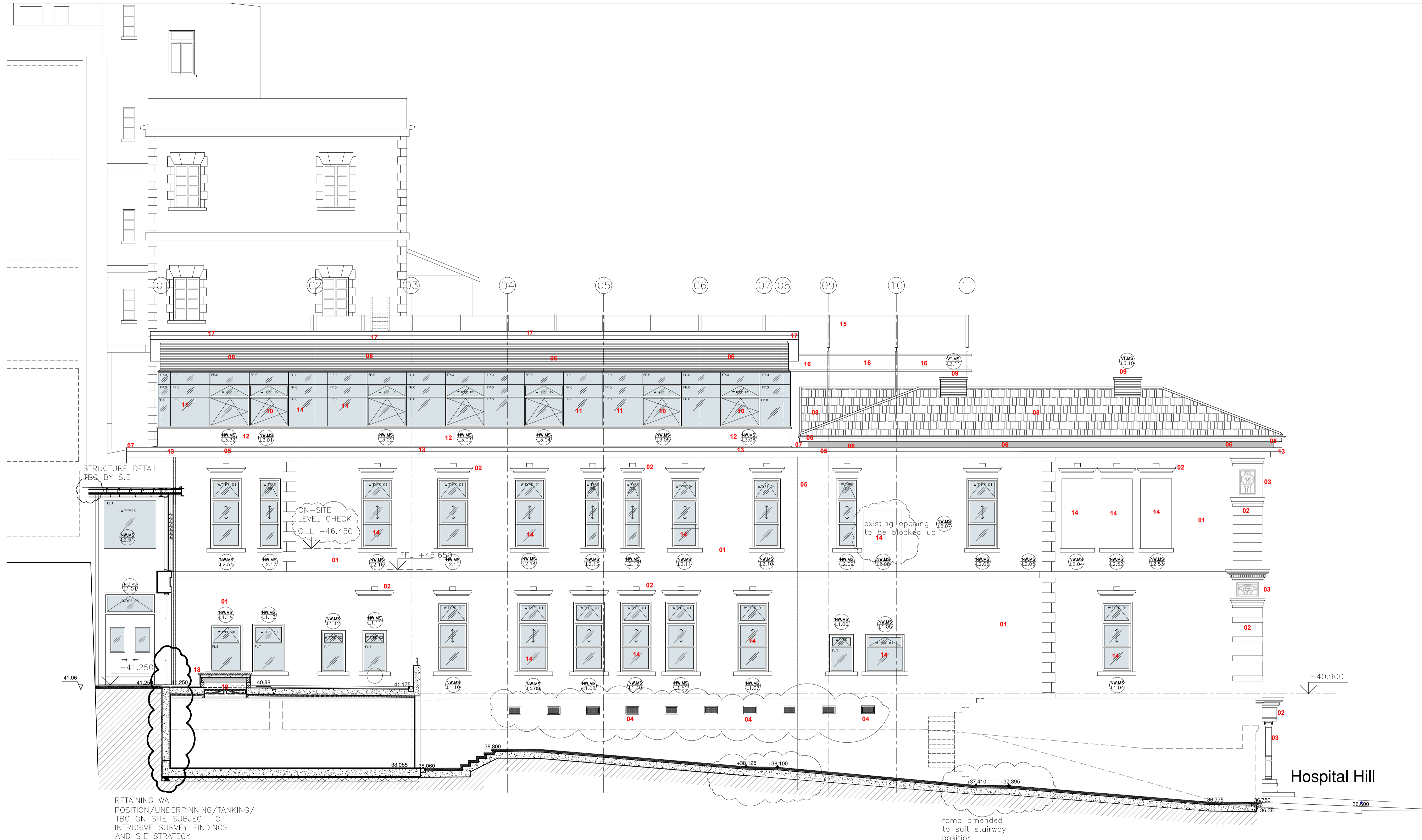
- NBS REF CONSTRUCTION NOTES**
- 19** BALUSTRADING TO BE FRAMELESS GLAZED PANELS AS 'Q'-RAILING EASY GLASS SYSTEM OR SIMILAR IN LAMINATED SAFETY GLAZING TO COMPLY WITH UK APPROVED DOC PART N AND PART K OF THE BUILDING REGULATIONS, WITH CONTINUOUS PROPRIETARY STAINLESS STEEL FIXING SHOE AND CAPRALS.
 - 20** CIRCULAR STEEL COLUMNS TO STRUCTURAL ENGINEERS DETAIL DESIGN TO BE FINISHED WITH FACTORY APPLIED PAINTING IN SMOOTH FINISH INTUMESCENT COATING AS NULLIFIRE OR SIMILAR.
 - 21** PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNAL REF TECHNAL REF MX OR MC SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTLUS OR SIMILAR.
 - 22** PROPRIETARY COMPOSITE TIMBER FRAME CURTAIN WALLING SASH WINDOWS AND FIXED PANE DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTLUS OR SIMILAR.
 - 23** INTERNAL ATRIUM FLOOR FINISH COMPRISING OF PAVING SLAB FINISH OVER 100mm SAND CEMENT SCREED WITH EMBEDDED CHILLING/HEATING PIPEWORK TO MAKE DESIGN OVER 100mm NON-COMPRESSIBLE INSULATION AS KINGSPAN THERMALDOR T70 OR SIMILAR OVER SUSPENDED BEAM AND BLOCK CONSTRUCTION TO S.E DETAIL.
 - 24** VITRAL SKY VISION FIXED ROOF GLAZING SKYLIGHTS FOR FLAT ROOFS, OR SIMILAR APPROVED SYSTEM, COMPRISED OF MODULAR SKYLIGHT UNIT WITH INTEGRATED KERB UPSTAND, HERMETICALLY SEALED DOUBLE GLAZED UNIT WITH LOW E, IMPACT RESISTANT, SOLAR CONTROL GLAZING. OUTER FACE OF EXTERNAL PANEL TO BE SCREEN PRINTED IN PATTERN/COLOUR TBC FRAMING TO BE PPC EXTRUDED ALUMINIUM, THERMALLY BROKEN, TO ACHIEVE TARGET ELEMENTAL U_v VALUE OF 1.24W/M²K.
 - 25** FEATURE ATRIUM ROOF COVERING, CENTRE-OPENING SLIDING THERMALLY BROKEN ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS 'OPENAIRE' OR SIMILAR, AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN.
 - 26** ALLOW FOR FEATURE, MOTORISED SOLAR SHADING BLINDS TO UNDERSIDE OF RETRACTABLE ROOF OVER COURTYARD AND TO CONTINUOUS ROOFLIGHT TO UPPER CIRCULATION AREA OF PRIMARY SCHOOL, AS SILENTLUS OR SIMILAR. ALLOW FOR SUPPORT / CABLE / RAIL REQUIREMENTS AS PER MANUFACTURERS DETAIL.
 - 27** FEATURE ATRIUM VERTICAL PANELS IN THERMALLY BROKEN ALUMINIUM WITH POLYCARBONATE SECTIONS. ALLOW FOR APPROX 50% OF PANELS TO BE OPENABLE AND AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN. ALLOW FOR GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTLUS OR SIMILAR.
 - 28** EXTERNAL AUTOMATED CONTROLLABLE BRISE SOLIEL AS TECHNAL SUNEAL OR SIMILAR EXTERNAL PPC ALUMINIUM LOUVER SYSTEM. ALLOW FOR SECONDARY STEELWORK SUPPORT SYSTEM.
 - 29** EXISTING VENT HOLES TO BE RETAINED TO AID IN NATURAL VENTILATION. ALLOW FOR STAINLESS STEEL PERFORATED GRILLES WITH INTEGRATED INSECT MESH.
 - 30** DOUBLE GLAZED CURTAIN WALLING SURROUNDING EXISTING FEATURE BALUSTRADING FORMING ART DISPLAY AREA. ALLOW FOR FEATURE DISPLAY LIGHTING.
 - 31** ALLOW FOR SURFACE DRAINAGE TO ATRIUM FLOOR TO MAKE DETAILS AND SPEC.

FOR CONSTRUCTION

rev	date	amendments
A	31.01.2014	ISSUED FOR CONSTRUCTION
B	11.04.2014	D+W REFERENCES ADDED
C	02.05.2014	D+W ADDITIONAL REFS ADDED

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CLIENT	GOVERNMENT OF GIBRALTAR DEPARTMENT OF EDUCATION	
PROJECT	ST BERNARDS SCHOOLS	
DRAWING TITLE	PROPOSED SECTIONS SECTION 04	
SCALE	JOB + DRG REF No.	REV
1:75@A1	G568[8-004]-SX-04-75	C
DATE		
23.01.14		



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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 05
LONGITUDINAL SECTIONAL ELEVATION MIDDLE SCHOOL [NORTH]
Scale 1:75

- NBS REF CONSTRUCTION NOTES**
- M20/160** 01 EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - SPECIALIST** 02 ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.
 - SPECIALIST** 03 ALLOW FOR SPECIALIST REPAIR AND REFINISHING OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
 - 04 ALLOW FOR FORMING OF VENT HOLES WITHIN EXISTING WALLS INCLUDING PERFORATED STAINLESS STEEL (OR SATIN NICKEL) GRILLES WITH INTEGRATED INSECT MESH. COLOUR, MATERIAL TBC SUBJECT TO APPROVAL OF SAMPLE.
 - 05 ALLOW FOR DEEP-FLOW PPC ALUMINIUM OUTTERS AND DOWNPIPES WITH CONCEALED JOINTS AND WALL FIXINGS AS ALUMASC OR SIMILAR
 - L10/650** 06 ROOF VENTILATION LOUVERES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.
 - J42/130** 07 NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID PER INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.
 - H61/115** 08 EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIRDIALE RANGE. ALLOW FOR 50x25mm TREATED SH TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERBATTENS OVER 18mm WBP MARINE GRADE PLYWOOD BEARING OVER LIGHT GAUGE FRAMING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E DETAIL AND SPECIFICATION. ALLOW FOR FIXINGS AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE, COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES. ALLOW FOR DORMER CONSTRUCTION FOR MAINTENANCE ACCESS DOOR TO EACH OF PITCHED ROOFS

- NBS REF CONSTRUCTION NOTES**
- L10/650** 09 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH. ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DROP FLASHING DETAILS.
 - H11/110** 10 NEW WINDOWS GENERALLY IN NEW EXTENSION TO BE PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF TECHNICAL REF SSG SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLISS OR SIMILAR.
 - H11/110** 11 UPPER WALL SECTIONS OF NEW EXTENSION WALLS TO BE FORMED FROM THERMALLY BROKEN PPC ALUMINIUM FRAMED CURTAIN WALLING WITH INTEGRATED SPANDREL PANEL FORMING CONTINUOUS WALLS WITH 140mm CERAMIC THERMAL BLOCK AS TONMARILLA OR SIMILAR TO SECTIONS BETWEEN OPENABLE WINDOWS WITH THERMAL INSULATION INFILL REFER TO CA PLANS FOR EXTENTS OF WALL/OPENABLE WINDOWS. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35w/m²K.
 - F10/110** 12 NEW EXTENSIONS WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TONMARILLA OR SIMILAR TO LOWER SECTION BELOW CILL LEVEL, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBERTHERM AM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U' VALUE TARGET). CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEGACORCO BOARD BY LAPARIE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35w/m²K.
 - K10/100** 13 ALLOW FOR PPC ALUMINIUM PROFILED CEILING FLASHINGS OVER CONCRETE FILET WITH PAINT APPLIED WATERPROOF COVERING TO TOP OF EXISTING WALLS.
 - L10/---** 14 PROPRIETARY COMPOSITE TIMBER FRAME CURTAIN WALLING SASH WINDOWS AND FIXED PANE DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLISS OR SIMILAR.

- NBS REF CONSTRUCTION NOTES**
- H43/122** 15 FEATURE ATRIUM ROOF COVERING, CENTRE-OPENING SLIDING THERMALLY BROKEN ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS 'OPENAIR' OR SIMILAR, AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO M&E DETAIL DESIGN.
 - 16 FEATURE ATRIUM VERTICAL PANELS IN THERMALLY BROKEN ALUMINIUM WITH POLYCARBONATE SECTIONS. ALLOW FOR APPROX SIDE OF PANELS TO BE OPENABLE AND AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE BETA1. DESIGN. ALLOW FOR GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLISS OR SIMILAR.
 - 17 NEW EXTENSION MONOPITCH ROOFS WITH VENTILATED VOIDS BELOW TO BE FORMED FROM KINGSPAN K51000ZIP STANDING SEAM 45mm THICK COMPOSITE ROOF PANELS FIXED AT 1000MM CENTRES TO LIGHT GAUGE STEEL PURLINS TO SPECIALIST'S DESIGN & SPECIFICATION OVER HOT ROLLED STEEL FRAME TO S.E DATILS AND SPECIFICATION. PURLIN DEPTH TO BE CONFIRMED BY SPECIALIST. FINISH TBC SUBJECT TO APPROVAL OF SAMPLES. ALLOW FOR PROPRIETARY MONORIDGE AND FASCIA FLASHING DETAILS. ALLOW FOR PROPRIETARY PPC ALUMINIUM SOFFIT PANELS AND TRIMS FIXED THROUGH TO LIGHT GAUGE STEEL SECTIONS SPANNING BETWEEN OVERHANG STUBS.
 - M&E SPEC** 18 MECHANICALLY ASSISTED NATURAL VENTILATION TO DINING HALL PROVIDED BY 2 No. EXTERNAL SEATING OVER DINING SPACE AROUND S/O OF APPROX 1600mmx500mm, SEATING CONSTRUCTED FROM 140mm DENSE BLOCKWORK BASE WITH APPROX 175mm HIGH CONTINUOUS PPC COATED ALUMINIUM LOUVERES TO PERIMETER AND 100mm SUPPORT BLOCKWORK BEHIND AS REQUIRED BY STRUCTURAL ENGINEERS TO SPAN 100mm THICK R.C. SLAB SEAT BASE OVER SEAT FINISHED WITH 15mm THICK RECONSTITUTED STONE PAVINGS WITH SMOOTHED EDGES AS BREINCO OR SIMILAR. SURROUNDING SLAB DPM TO BE TAKEN UP SEATING WALLS 100mm MINIMUM ABOVE FFL. WALLS FINISHED IN THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - 19 MECHANICAL EXTRACTOR FANS INCLUDING INSULATED DAMPER LOUVERES AS PER M&E REQUIREMENT AND SPECIFICATION. ALLOW FOR APPROX 150x250mm REMOVABLE CEILING GRILLE FOR AIR EXTRACTION AND MAINTENANCE ACCESS.

STRUCTURE DETAIL TBC BY S.E

ON-SITE LEVEL CHECK CILL +46.450

existing opening to be blocked up

Hospital Hill

RETAINING WALL POSITION/UNDERPINNING/TANKING/TBC ON SITE SUBJECT TO INTRUSIVE SURVEY FINDINGS AND S.E STRATEGY

ramp amended to suit stairway position

FOR CONSTRUCTION

rev	date	amendments
A	31.01.2014	ISSUED FOR CONSTRUCTION
B	11.04.2014	D+W REFERENCES ADDED. FIRE ACCESS DOOR POSITION AMENDED
C	29.10.2014	RAMP INTERMEDIATE LANDING LEVELS ADDED

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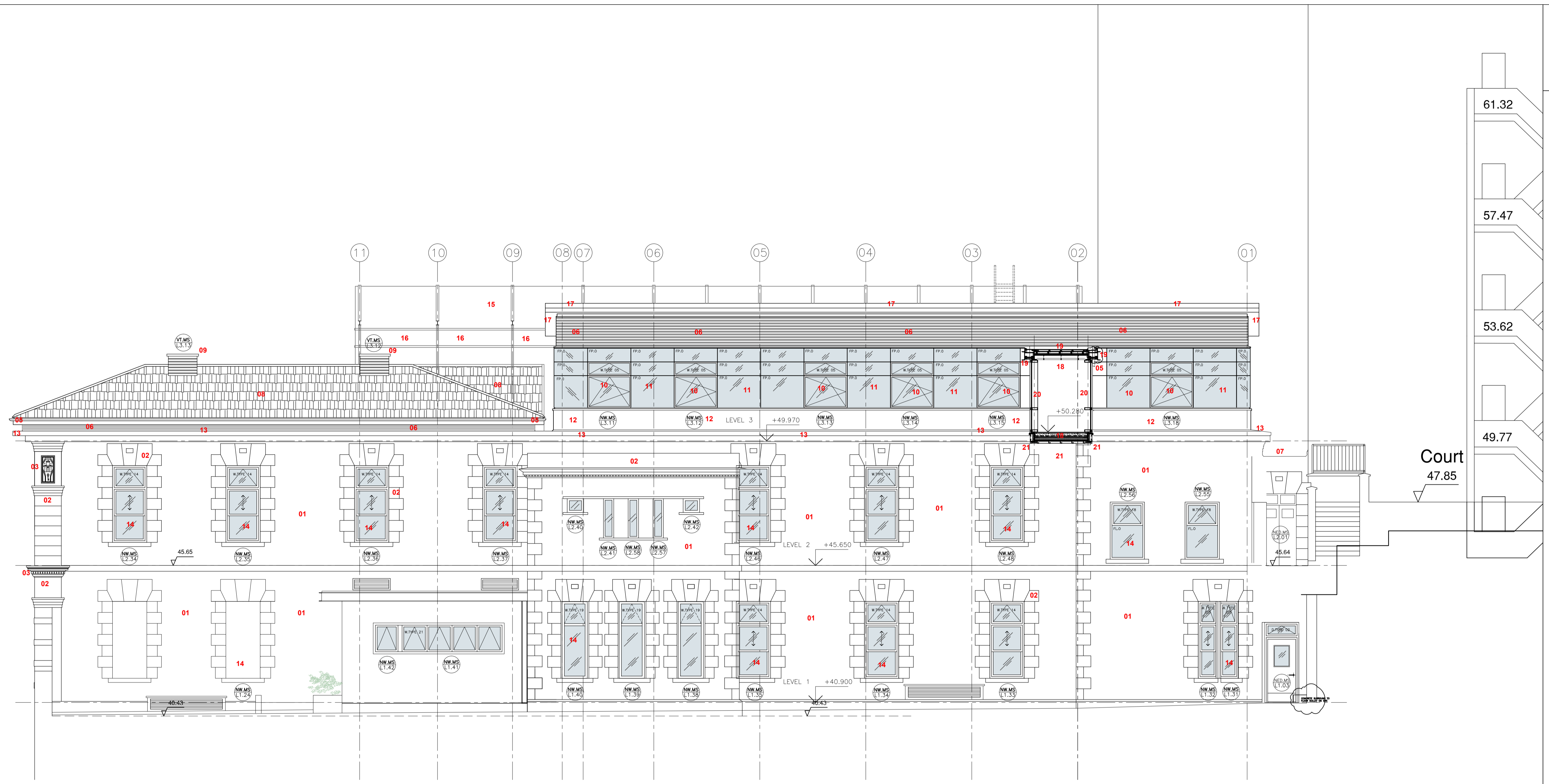
CLIENT
GOVERNMENT OF GIBRALTAR
DEPARTMENT OF EDUCATION

PROJECT
ST BERNARDS SCHOOLS

DRAWING TITLE
PROPOSED SECTIONS
SECTIONAL ELEVATION 05

SCALE	JOB + DRG REF No.	REV
1:75@A1	G566[8-005]_SX-05-75	C
DATE		
09.01.14		

NOTES :
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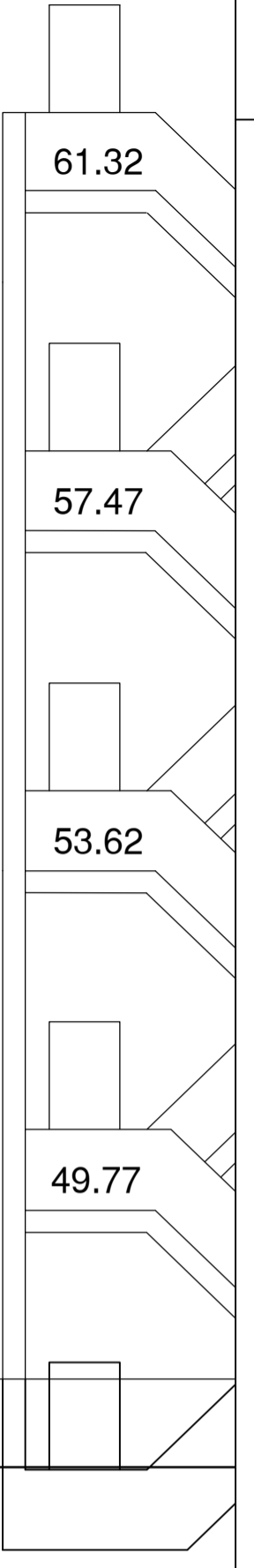


ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 06
PROPOSED SOUTH ELEVATION OF MIDDLE SCHOOL [H5 SOUTH]
Scale 1:75

- NBS REF CONSTRUCTION NOTES**
- M20/160 **01** EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - SPECIALIST **02** ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.
 - SPECIALIST **03** ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
 - 04** ALLOW FOR FORMING OF VENT HOLES WITHIN EXISTING WALLS INCLUDING PERFORATED STAINLESS STEEL (OR SATIN NICKEL) GRILLES WITH INTEGRATED INSECT MESH. COLOUR, MATERIAL TBC SUBJECT TO APPROVAL OF SAMPLE.
 - 05** ALLOW FOR DEEP-FLOW PPC ALUMINIUM GUTTERS AND DOWNPIPES WITH CONCEALED JOINTS AND WALL FIXINGS AS ALUMASC OR SIMILAR
 - L10/650 **06** ROOF VENTILATION LOUVERES TO EAVES AND CABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.
 - J42/130 **07** NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID PIR INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.
 - H61/115 **08** EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY TRIDENT SLATE BIRDALE RANGE. ALLOW FOR 50x25mm TREATED SW TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERBATENS OVER 18mm WBP MARINE GRADE PLYWOOD DECKING OVER LIGHT GAUGE FANING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E DETAIL AND SPECIFICATION. ALLOW FOR FRAMES AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE. COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES. ALLOW FOR DORMER CONSTRUCTION FOR MAINTENANCE ACCESS DOOR TO EACH OF PITCHED ROOFS.
 - L10/650 **09** ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH. ROOF CLIPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.
 - J42/130 **10** NEW WINDOWS GENERALLY IN NEW EXTENSION TO BE PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING, TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF TECHNICAL REF SSG SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTLISS OR SIMILAR.

- NBS REF CONSTRUCTION NOTES**
- H11/110 **11** UPPER WALL SECTIONS OF NEW EXTENSION WALLS TO BE FORMED FROM THERMALLY BROKEN PPC ALUMINIUM FRAMED CURTAIN WALLING WITH INTEGRATED SPANDREL PANEL FORMING CONTINUOUS WALLS WITH 140mm CERAMIC THERMAL BLOCK AS TERMOCARILLA OR SIMILAR TO SECTIONS BETWEEN OPENABLE WINDOWS WITH THERMAL INSULATION INFILL. REFER TO S.A PLANS FOR EXTENTS OF WALL/OPENABLE WINDOWS. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35W/m²K.
 - F10/110 **12** NEW EXTENSION WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TERMOCARILLA OR SIMILAR TO LOWER SECTION BELOW CILL LEVEL, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBERTHERM XM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U' VALUE TARGET). CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEDAGOC BOARD BY LAFARGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35W/m²K.
 - L10/-- **13** ALLOW FOR PPC ALUMINIUM PROFILED COVER FLASHINGS OVER CONCRETE FILLET WITH PAINT APPLIED WATERPROOF COVERING TO TOP OF EXISTING WALLS.
 - L10/-- **14** PROPRIETARY COMPOSITE TIMBER FRAME CURTAIN WALLING SASH WINDOWS AND FIXED PANE DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTLISS OR SIMILAR.
 - H43/122 **15** FEATURE ATRIUM ROOF COVERING, CENTRE-OPENING SLIDING THERMALLY BROKEN ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS 'ORDENARE' OR SIMILAR. AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN.
 - H43/122 **16** FEATURE ATRIUM VERTICAL PANELS IN THERMALLY BROKEN ALUMINIUM WITH POLYCARBONATE SECTIONS. ALLOW FOR APPROX 50% OF PANELS TO BE OPERABLE AND AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN. ALLOW FOR GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTLISS OR SIMILAR.
 - S.E SPEC **17** NEW EXTENSION MONOPITCH ROOFS WITH VENTILATED VOIDS FORMED FROM KINGSPAN K510020P STANDING SEAM 45mm THICK COMPOSITE ROOF PANELS FIXED AT 1000MM CENTRES TO LIGHT GAUGE STEEL PURLINS TO SPECIALIST'S DESIGN & SPECIFICATION. PURIN DEPTH TBC BY SPECIALIST. FINISH TBC SUBJECT TO APPROVAL OF SAMPLES. ALLOW FOR PROPRIETARY MONOPITCH AND FACSA FLASHING DETAILS. ALLOW FOR PROPRIETARY PPC ALUMINIUM SOFFIT PANELS AND TRIMS FIXED THROUGHOUT LIGHT GAUGE STEEL SECTIONS SPANNING BETWEEN OVERHANG STUBS.
 - S.E SPEC **18** NEW LINK BRIDGE BETWEEN H5 AND H7 BUILDINGS TO BE FORMED FROM FRAME CONSISTING OF HOT ROLLED STEEL BEAMS WITH LIGHT GAUGE STEEL PURLINS/C SECTIONS SPANNING BETWEEN BEAMS.

- NBS REF CONSTRUCTION NOTES**
- J42/130 **19** NEW LINK BRIDGE FLAT ROOF CONSTRUCTION COMPRISING OF CONTINUOUS SINGLE PLY WATERPROOF MEMBRANE OVER 18mm MARINE GRADE WBP PLYWOOD BASE FIXED THROUGH TREATED SW TIMBER NOGGINNS TO ACHIEVE 180 FALLS TOWARDS OPEN CHANNEL OVER LIGHT GAUGE STEEL PURLINS SPANNING BETWEEN HOT ROLLED STEEL ROOF JOISTS. ROOF STRUCTURE TO BE UNDERDRAIN WITH VAPOUR BARRIER AND 18mm WBP MARINE GRADE PLYWOOD LAYER, WITH 150mm ROCKWOOL DUST INFILL INSULATION, PLYWOOD LAYER TO TAKE WF CEILING GRID SYSTEM.
 - H11/110 **20** NEW LINK BRIDGE WALLS TO BE CONSTRUCTED FROM PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND LOWER FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF TECHNICAL REF SSG SYSTEM OR SIMILAR APPROVED. ALLOW FOR LOW LEVEL GLAZED PANELS IN TOUCHED AND LAMINATED GLASS TO COMPLY WITH PART N UK APPROVED DOCUMENTS. ALLOW FOR PPC ALUMINIUM CILL FLASHINGS.
 - S.E SPEC **21** NEW LINK BRIDGE FLOOR COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR BETWEEN STEEL JOISTS SUPPORTED OFF LEDGER ANGLES TO S.E DETAIL WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS EKHAFORM WITH 20mm T46 BOARDING AND HEAVY DUTY RESIN AS FLOORING FINISH. SEPARATING FLOORS TO BE UNDERLINED WITH VAPOUR BARRIER, INFILL ROCKWOOL INSULATION AND WBP MARINE GRADE PLYWOOD OVER LIGHT GAUGE STEEL PURLINS TO TAKE SOFFIT FORMED FROM CALCIUM SILICATE BASEBOARD AS BLUCLAD OR SIMILAR. ALLOW FOR LIGHT GAUGE STEEL SECTIONS FOR FORMING OF EXTERNAL LINING TO LINK BRIDGE FLOOR BEAMS.



FOR CONSTRUCTION

rev	date	amendments
A	31.01.2014	ISSUED FOR CONSTRUCTION
B	11.04.2014	D+W REFERENCES ADDED

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GOVERNMENT OF GIBRALTAR
DEPARTMENT OF EDUCATION

PROJECT
ST BERNARDS SCHOOLS

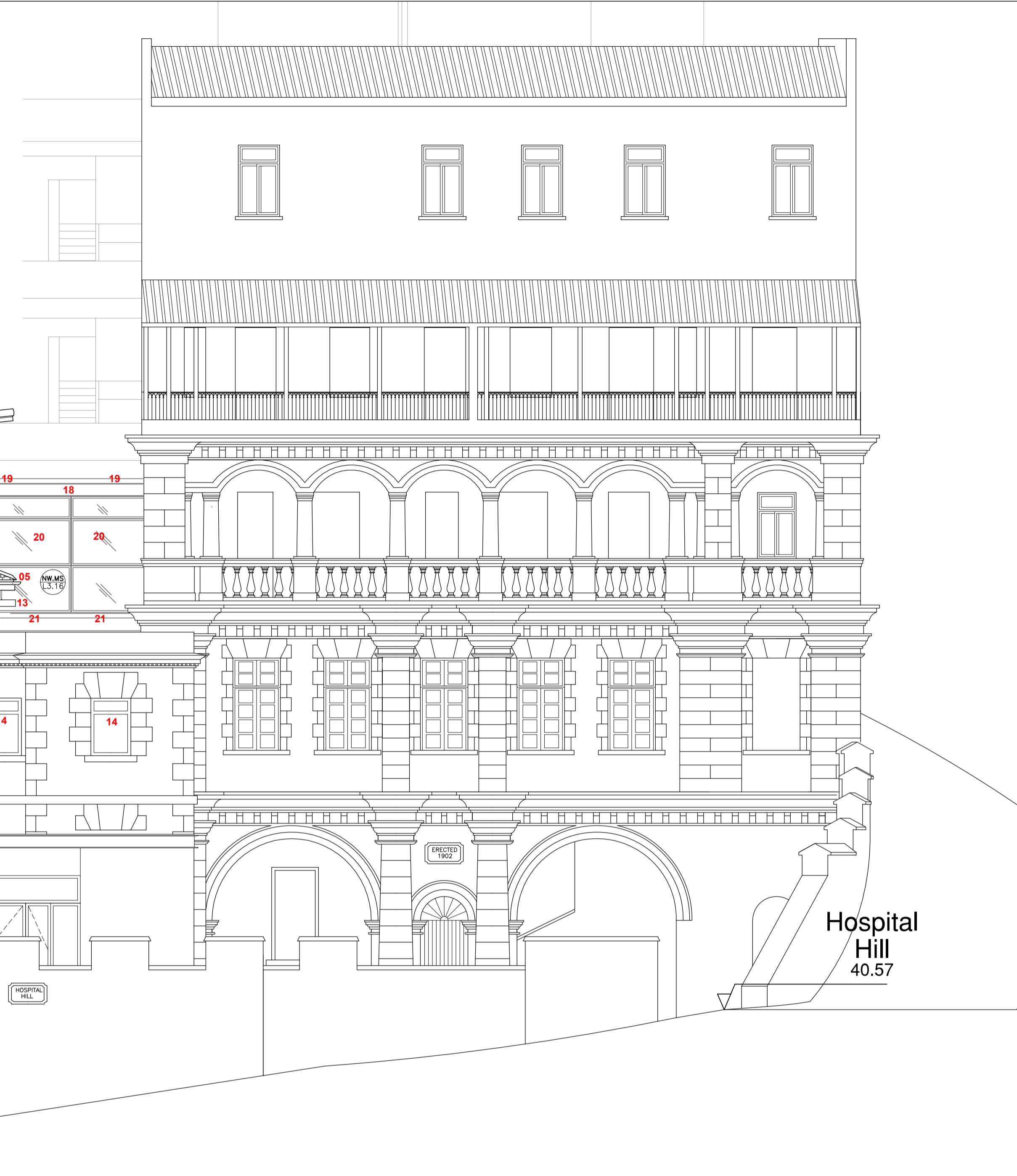
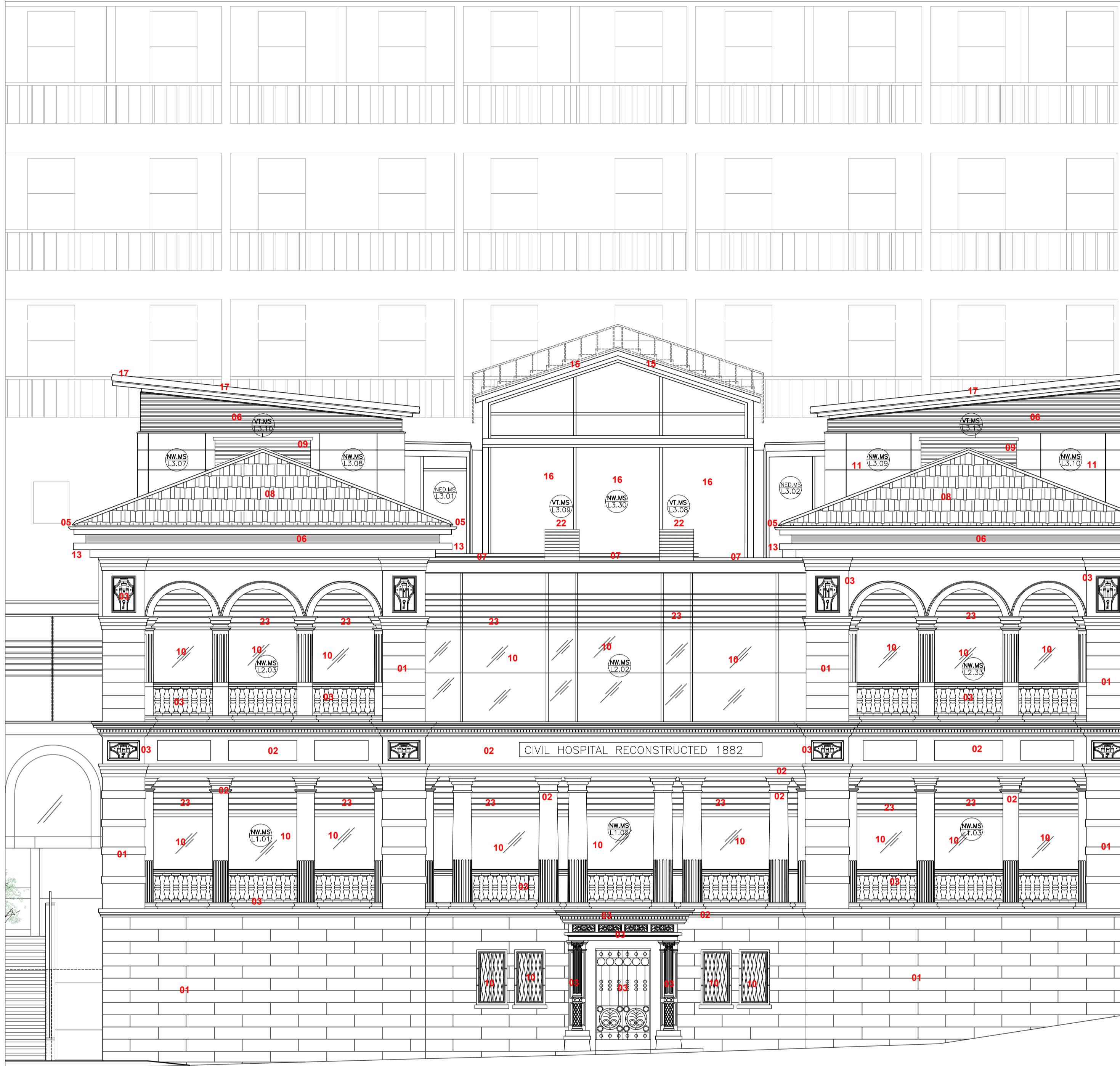
DRAWING TITLE
PROPOSED ELES/SECTIONS
SECTIONAL ELEVATION 06

SCALE 1:75@A1	JOB + DRG REF No. G566[8-006]-SX-06-75	REV B
DATE 09.01.14		

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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 07
ELEVATION OF MIDDLE SCHOOL [WEST]
 Scale 1:75

NBS REF CONSTRUCTION NOTES

- M20/160 01 EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTAINED BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
- SPECIALIST 02 ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.
- SPECIALIST 03 ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
- 04 ALLOW FOR FORMING OF VENT HOLES WITHIN EXISTING WALLS INCLUDING PERFORATED STAINLESS STEEL (OR SATIN NICKEL) GRILLES WITH INTEGRATED INSECT MESH, COLOUR, MATERIAL TBC SUBJECT TO APPROVAL OF SAMPLE.
- 05 ALLOW FOR DEEP-FLOW PPC ALUMINIUM CUTTERS AND DOWNPIPES WITH CONCEALED JOINTS AND WALL FIXINGS AS ALUMASC OR SIMILAR.
- L10/650 06 ROOF VENTILATION LOUVRES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVRE PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.
- J42/130 07 NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID FIR INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.
- 08 EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIKORALE RANGE ALLOW FOR PLYWOOD DECKING OVER LIGHT GAUGE FRAMING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E DETAIL AND SPECIFICATION, ALLOW FOR FINISHES AND OVERLAYS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE, COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES. ALLOW FOR DORMER CONSTRUCTION FOR MAINTENANCE ACCESS DOOR TO EACH OF PITCHED ROOFS.
- H61/115 09 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH, ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE DECK TRIMS AND DRIP FLASHING DETAILS.
- L10/650 09 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH, ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE DECK TRIMS AND DRIP FLASHING DETAILS.
- J42/130 09 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH, ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE DECK TRIMS AND DRIP FLASHING DETAILS.
- H11/110 10 CURTAIN WALLING GENERALLY TO BE PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF SSG SYSTEM, ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLISS OR SIMILAR.

NBS REF CONSTRUCTION NOTES

- H11/110 11 UPPER WALL SECTIONS OF NEW EXTENSION WALLS TO BE FORMED FROM THERMALLY BROKEN PPC ALUMINIUM FRAMED CURTAIN WALLING WITH INTEGRATED SPANDREL PANEL FORMING CONTINUOUS WALLS WITH 140mm CERAMIC THERMAL BLOCK AS THERMOBLOCK OR SIMILAR TO SECTIONS BETWEEN OPENABLE WINDOWS WITH THERMAL INSULATION INFILL, REFER TO G.A PLANS FOR EXTENTS OF WALL/OPENABLE WINDOWS, OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35w/m²K.
- F10/110 12 NEW EXTENSION WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS THERMOBLOCK OR SIMILAR TO LOWER SECTION BELOW CILL LEVEL, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBERTHERM XM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U' VALUE TARGET), CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEGADECO BOARD BY LAFARGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK, OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35w/m²K.
- L10/--- 13 ALLOW FOR PPC ALUMINIUM PROFILED COVER FLASHINGS OVER CONCRETE FILLET WITH PAINT APPLIED WATERPROOF COVERING TO TOP OF EXISTING WALLS.
- L10/--- 14 PROPRIETARY COMPOSITE TIMBER FRAME CURTAIN WALLING CASH WINDOWS AND FIXED PANE DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM, ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLISS OR SIMILAR.
- 15 FEATURE ATRium ROOF COVERING, CENTRIC-OPENING SLIDING THERMALLY BROKEN ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS 'OPENAIRE' OR SIMILAR, AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN.
- 16 FEATURE ATRium VERTICAL PANELS IN THERMALLY BROKEN ALUMINIUM WITH POLYCARBONATE SECTIONS, ALLOW FOR APPROX 50% OF PANELS TO BE OPENABLE AND AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO MAKE DETAIL DESIGN, ALLOW FOR GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLISS OR SIMILAR.
- H43/122 17 NEW EXTENSION MONOPITCH ROOFS WITH VENTILATED VOIDS BELOW TO BE FORMED FROM KINGSPAN K510000P STANDING SEAM 45mm THICK COMPOSITE ROOF PANELS FIXED AT 1000mm CENTRES TO LIGHT GAUGE STEEL PURLINS TO SPECIALIST'S DESIGN & SPECIFICATION OVER HOT ROLLED STEEL FRAME TO S.E DETAILS AND SPECIFICATION, PURLIN DEPTH TO BE CONFIRMED BY SPECIALIST, FINISH TBC SUBJECT TO APPROVAL OF SAMPLES, ALLOW FOR PROPRIETARY MONOROGS AND FASCIA FLASHING DETAILS, ALLOW FOR PROPRIETARY PPC ALUMINIUM SOFFIT PANELS AND TRIMS FIXED THROUGH TO LIGHT GAUGE STEEL SECTIONS SPANNING BETWEEN OVERHANG STUBS.
- S.E SPEC 18 NEW LINK BRIDGE BETWEEN H5 AND H7 BUILDINGS TO BE FORMED FROM FRAME CONSISTING OF HOT ROLLED STEEL BEAMS WITH LIGHT GAUGE STEEL PURLINS/C SECTIONS SPANNING BETWEEN BEAMS.

NBS REF CONSTRUCTION NOTES

- J42/130 19 NEW LINK BRIDGE FLAT ROOF CONSTRUCTION COMPRISING OF CONTINUOUS SINGLE PLY WATERPROOF MEMBRANE OVER 18mm MARINE GRADE WBP PLYWOOD BASE FIXED THROUGH TREATED SW TIMBER NOGGINs TO ACHIEVE 1:80 FALLS TOWARDS OPEN CHANNEL OVER LIGHT GAUGE STEEL PURLINS SPANNING BETWEEN HOT ROLLED STEEL ROOF JOISTS, ROOF STRUCTURE TO BE UNDERDRAIN WITH VAPOUR BARRIER AND 18mm WBP MARINE GRADE PLYWOOD LAYER, WITH 150mm ROCKWOOL QUILT INFILL INSULATION, PLYWOOD LAYER TO TAKE MF CEILING GRID SYSTEM, ALLOW FOR HOT ROLLED STUBS FOR OVERHANG DETAIL AND FEATURE PPC DETAIL AS UNP 300, TO STRUCTURAL ENGINEERS DETAIL, ALLOW FOR SOFFITS TO BE UNDERDRAWN WITH A CALCIUM SILICATE BASEBOARD AS BLUCLAD OR SIMILAR, FINISHED WITH ACRYLIC RENDER FINISH AS WEBER OR SIMILAR.
- H11/110 20 NEW LINK BRIDGE WALLS TO BE CONSTRUCTED FROM PROPRIETARY THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND LOWER FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF SSG SYSTEM, ALLOW FOR LOW LEVEL GLAZED PANELS IN TOUCHED AND LAMINATED GLASS TO COMPLY WITH PART N OF THE UK APPROVED DOCUMENTS, ALLOW FOR PPC ALUMINIUM CILL FLASHINGS.
- S.E SPEC 21 NEW LINK BRIDGE FLOOR COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR BETWEEN STEEL JOISTS SUPPORTED OFF LEDGER ANGLES TO S.E DETAIL, WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS ETHAFLOAM, WITH 20mm T+G BOARDING AND HEAVY DUTY VINYL SHEET FLOORING FINISH, SEPARATING FLOORS TO BE UNDERLINED WITH VAPOUR BARRIER, INFILL ROCKWOOL INSULATION AND WBP MARINE GRADE PLYWOOD OVER LIGHT GAUGE STEEL PURLINS TO TAKE SOFFIT FORMED FROM CALCIUM SILICATE BASEBOARD AS BLUCLAD OR SIMILAR, FINISHED WITH ACRYLIC RENDER FINISH AS WEBER OR SIMILAR, ALLOW FOR LIGHT GAUGE STEEL SECTIONS FOR FORMING OF EXTERNAL LINING TO LINK BRIDGE FLOOR BEAMS.
- L10/490 22 PPC ALUMINIUM NATURAL LOUVERED STACK VENTILATION TERMINALS WITH MOTORISED, TEMP & CO2 CONTROLLED ASSISTED FAN AND CONTROLLABLE INSULATED INTERNAL LOUVRES, AS AIRTRACT MECHANICAL EXTRACT TERMINAL BY PASSEVENT OR SIMILAR, ALLOW FOR 1 TERMINAL PER CLASSROOM TO SCHOOLS UPPER LEVELS, AND 1 TERMINAL PER APPROX 15M OF CORRIDOR RUNS TO LOWER LEVELS OF SCHOOLS, ALLOW FOR STEELWORK TRIMMERS FOR TERMINAL UNIT SUPPORTS AND TREATED SW TIMBER FRAMING FOR PLASTERBOARD SHAFT, ALLOW FOR CEILING LEVEL GRILLE TO SHAFT BASE.
- 23 EXTERNAL AUTOMATED CONTROLLABLE BRICE SOLEL AS TECHNICAL SUNEAL OR SIMILAR EXTERNAL PPC ALUMINIUM LOUVER SYSTEM, ALLOW FOR SECONDARY STEELWORK SUPPORT SYSTEM.

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FOR CONSTRUCTION

rev	date	amendments
A	31.01.2014	ISSUED FOR CONSTRUCTION
B	11.04.2014	D+W REFERENCES ADDED

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DEPARTMENT OF EDUCATION

PROJECT
ST BERNARDS SCHOOLS

DRAWING TITLE
PROPOSED SECTIONS/ ELEVATIONS
SECTIONAL ELEVATION 07 [EAST]

SCALE	JOB + DRG REF No.	REV
1:75@A1	G566[8-007]	B
DATE	09.01.14	

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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 08
LONGITUDINAL SECTIONAL ELEVATION MIDDLE SCHOOL [NORTH]THRU PODIUM STAIRS
Scale 1:75

NBS REF CONSTRUCTION NOTES

- M20/160** **01** EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WERE OR SIMILAR APPROVED PRODUCT.
- SPECIALIST** **02** ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.
- SPECIALIST** **03** ALLOW FOR SPECIALIST REPAIR AND REFINISHMENT OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
- 04** ALLOW FOR FORMING OF VENT HOLES WITHIN EXISTING WALLS INCLUDING PERFORATED STAINLESS STEEL (OR SATIN NICKEL) GRILLES WITH INTEGRATED INSECT MESH. COLOUR, MATERIAL TBC SUBJECT TO APPROVAL OF SAMPLE.
- 05** ALLOW FOR DEEP-FLOW PPC ALUMINIUM GUTTERS AND DOWNPIPES WITH CONCEALED JOINTS AND WALL FIXINGS AS ALUMASC OR SIMILAR
- L10/650** **06** ROOF VENTILATION LOUVRES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.
- J42/130** **07** NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID PER INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.
- H61/115** **08** EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIRDIALE RANGE. ALLOW FOR 50x25mm TREATED SH TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERBATTENS OVER 18mm WBP MARINE GRADE PLYWOOD BECKING OVER LIGHT GAUGE FRAMING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E DETAIL AND SPECIFICATION. ALLOW FOR FIXINGS AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE. COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES. ALLOW FOR DORMER CONSTRUCTION FOR MAINTENANCE ACCESS DOOR TO EACH OF PITCHED ROOFS

NBS REF CONSTRUCTION NOTES

- L10/650** **09** ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH. ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.
- H11/110** **10** NEW WINDOWS GENERALLY IN NEW EXTENSION TO BE PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF TECHNICAL REF SSG SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLASS OR SIMILAR.
- H11/110** **11** UPPER WALL SECTIONS OF NEW EXTENSION WALLS TO BE FORMED FROM THERMALLY BROKEN PPC ALUMINIUM FRAMED CURTAIN WALLING WITH INTEGRATED SPANDREL PANEL FORMING CONTINUOUS WALLS WITH 140mm CERAMIC THERMAL BLOCK AS TOMARICELLA OR SIMILAR TO SECTIONS BETWEEN OPENABLE WINDOWS WITH THERMAL INSULATION INFILL. REFER TO GA PLANS FOR EXTENTS OF WALL/OPENABLE WINDOWS. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35W/m²K.
- F10/110** **12** NEW EXTENSIONS WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TOMARICELLA OR SIMILAR TO LOWER SECTION BELOW CILL LEVEL, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WERTHERM IM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U' VALUE TARGET). CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEGACORC BOARD BY LAFARGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35W/m²K.
- F10/110** **13** ALLOW FOR PPC ALUMINIUM PROFILED COVER FLASHINGS OVER CONCRETE FILET WITH PAINT APPLIED WATERPROOF COVERING TO TOP OF EXISTING WALLS.
- L10/---** **14** PROPRIETARY COMPOSITE TIMBER FRAME CURTAIN WALLING SASH WINDOWS AND FIXED PANE DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLASS OR SIMILAR.

NBS REF CONSTRUCTION NOTES

- H43/122** **15** FEATURE ATRIUM ROOF COVERING, CENTRE-OPENING SLIDING THERMALLY BROKEN ALUMINIUM FRAMED AND POLYCARBONATE INSULATED PANELS AS 'OPENWARE' OR SIMILAR, AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO M&E DETAIL DESIGN.
- 16** FEATURE ATRIUM VERTICAL PANELS IN THERMALLY BROKEN ALUMINIUM WITH POLYCARBONATE SECTIONS. ALLOW FOR APPROX SIZES OF PANELS TO BE OPENABLE AND AUTOMATICALLY OPERATED WITH TEMP CONTROL AND LINKED TO FIRE ALARM SYSTEM TO M&E DETAIL DESIGN. ALLOW FOR GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SILENTGLASS OR SIMILAR.
- 17** NEW EXTENSION MONOPITCH ROOFS WITH VENTILATED VOIDS BELOW TO BE FORMED FROM KINGSPAN K51000ZP STANDING SEAM 45mm THICK COMPOSITE ROOF PANELS FIXED AT 1000MM CENTRES TO LIGHT GAUGE STEEL PURLINS TO SPECIALIST'S DESIGN & SPECIFICATION OVER HOT ROLLED STEEL FRAME TO S.E DATILS AND SPECIFICATION. PURLIN DEPTH TO BE CONFIRMED BY SPECIALIST. FINISH TBC SUBJECT TO APPROVAL OF SAMPLES. ALLOW FOR PROPRIETARY MONORIDGE AND FASCIA FLASHING DETAILS. ALLOW FOR PROPRIETARY PPC ALUMINIUM SOFFIT PANELS AND TRIMS FIXED THROUGH TO LIGHT GAUGE STEEL SECTIONS SPANNING BETWEEN OVERHANG STUBS.

RETAINING WALL POSITION/UNDERPINNING/TANKING/TBC ON SITE SUBJECT TO INTRUSIVE SURVEY FINDINGS AND S.E STRATEGY

Hospital Hill

FOR CONSTRUCTION

rev	date	amendments
A	11.04.2014	D+W REFS ADDED

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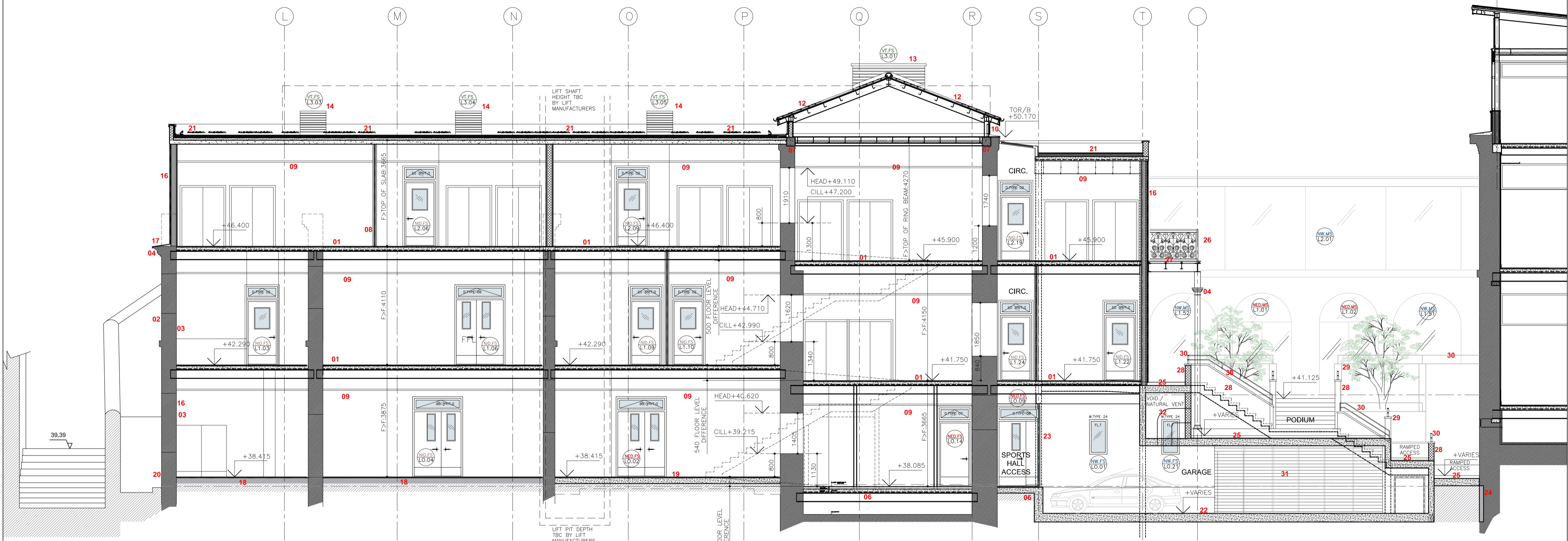
CLIENT
GOVERNMENT OF GIBRALTAR
DEPARTMENT OF EDUCATION

PROJECT
ST BERNARDS SCHOOLS

DRAWING TITLE
PROPOSED SECTIONS
SECTIONAL ELEVATION 08

SCALE	JOB + DRG REF No.	REV
1:75@A1	G566[8-008]-SX-08-75	A
DATE		
09.01.14		

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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 09
SECTIONAL ELEVATION THROUGH FIRST SCHOOL, PODIUM & PARKING
Scale 1:75

NBS REF	CONSTRUCTION NOTES	NBS REF	CONSTRUCTION NOTES	NBS REF	CONSTRUCTION NOTES	NBS REF	CONSTRUCTION NOTES
S.E SPEC M12/100	01 NEW STRUCTURAL SEPARATING FLOORS TO REPLACE EXISTING TIMBER FLOOR CONSTRUCTION, AS STRUCTURAL ENGINEERS DETAILS, COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR OVER STEEL JOISTS SUPPORTED OFF PADSTONES TO S.E DETAIL, WITH 10mm IMPACT SOUND ACUSTIC LAYER AS ETHANAM, WITH 20mm T&G BOARDING AND HEAVY DUTY RESIN FLOORING FINISH. SEPARATING FLOORS TO BE UNDERLINED WITH SUSPENDED EXPOSED GRID AND TILE CEILING SYSTEM GENERALLY UNLESS OTHERWISE SPECIFIED. SEPARATING FLOORS TO BE UNDERLINED TO A PERFORMANCE R _w RANGE LEVEL OF 55-60 (dB) - SEPARATING FLOOR BUILD-UP TO ACHIEVE A MINIMUM FIRE RATING OF 60MIN. ALLOW FOR SERVICES PENETRATIONS AND FIRE DAMPERS/COLLARS.	K40/--	09 NEW CEILING TO CLASSROOMS GENERALLY TO BE WF CEILING EXPOSED GRID AND TILE SYSTEM BY ARMSTRONG, CORTEGA - REGULAR EDGE OR SIMILAR APPROVED PRODUCT. ALLOW LINE INTEGRATED VENTILATION GRILLES FOR PASSIVE STACK VENTILATION TO UPPER FLOOR CLASSROOMS TO NEW BUILDINGS.	17	ALLOW FOR PREFORMED PPC ALUMINIUM COVER FLASHINGS WITH DRIP DETAIL TO TOP OF ALL EXPOSED EXISTING MASONRY WALLS. ALLOW FOR FORMING OF FALL WITH SAND/CEMENT FILL WITH LIQUID WATERPROOF LAC FINISH AS BLACKING OR SIMILAR.	S.E SPEC	27 NEW FEATURE EXTERNAL FEATURE WALKWAY TO BE FORMED FROM STRUCTURAL SLAB TO STRUCTURAL ENGINEERS DETAIL, FINISHED WITH REVEED IRKO HARDWOOD DECKING AND UNDERDRAIN WITH SMOOTH IRKO HARDWOOD SARKING SUBJECT TO ARCHITECT APPROVAL OF SAMPLE.
M20/160	02 EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.	L10/650	10 ROOF VENTILATION LOUVRES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVRE PANELS AS REMSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.	18	EXISTING GROUND FLOOR SLAB IN PROPOSED MUSIC ROOM AND W/C BLOCK TO REMAIN, ANY REMAINING EXISTING FLOOR TILING, MORTAR/ADHESIVE TO BE REMOVED AND SUBSTRATE PREPARED TO RECEIVE NEW FLOOR FINISH BUILD-UP.	M20/160	28 PARAPET WALLS GENERALLY TO BE CONSTRUCTED IN HOLLOW CONCRETE BLOCK APPROX 600mm HIGH WITH BALUSTRADING OVER TO A MIN HEIGHT OF 1150mm ABOVE FFL WITH CONCRETE INFILL AND STEEL ROD REINFORCEMENT BARS TO STRUCTURAL ENGINEERS DETAIL, TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR RENDER AS WEBER OR SIMILAR APPROVED PRODUCT. ALLOW FOR PROPERLY RENDER STOP BEADS.
K10/100 M60/100	03 EXISTING EXTERNAL WALLS (REMAINING EXTERNAL) TO BE LINED INTERNALLY WITH INSULATION-BACKED HIGH IMPACT RESISTANT PLASTERBOARD, CLASS 0 FIRE RATED, AS CYPROC THERMALINE PIR, APPROX 35mm THICK OVERALL, WITH INTEGRAL VAPOUR MEMBRANE, TAPED AND JOINTED, FIXED THROUGH TO EXISTING WALL ON 25mm DEEP OMEGA RAIL FRAMING WITH COMPRESSED ROCKWOOL INFILL OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.40W/m ² K OR BETTER. ALL EXISTING NATURAL STONE FEATURES/SURROUNDS TO RECEIVE SPECIALIST TREATMENT, CLEANING AND PROTECTIVE SEALING TO REMAIN EXPOSED TO APPROVAL OF HERITAGE & PLANNING.	J42/130	11 NEW FLAT ROOF STRUCTURE CONSTRUCTION COMPRISING OF HIGH PERFORMANCE POLYMERIC FULLY BONDED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE PLY OVER 80mm MINIMUM RIGID FIR INSULATION TO FALLS OVER SEPARATING LAYER OVER COMPOSITE SLAB CONSTRUCTION AS COMFLOR OR SIMILAR TO S.E DETAIL SPEC.	19	NEW R.C SLAB IN COVERED LEVEL AREA TO STRUCTURAL ENGINEERS DETAILS OVER REDUCED LEVELS TO S.E REQUIREMENTS, HARDCORE, BINDING AND CONTINUOUS DPM, TO RECEIVE POWERFLOATED SPECIALIST RESIN FINISH WITH RUBBER SHOCKPAD BUILDUP AS SIKKA RESUPRO, OR SIMILAR.	Z11/58	30 ALLOW FOR APPROX 500mm HIGH BALUSTRADING OVER PARAPET WALLS FORMED FROM MARINE GRADE SELF FINISHED GLAZANIZED STEEL FLAT BARS TO BS EN ISO 1461: 1999. HORIZONTAL SECTIONS FORMED FROM 40x15mm FLAT BARS WITH VERTICALS IN 40x40mm SHS. ALLOW FOR WELDED BASEPLATE TO VERTICAL POSTS FOR FIXING ONTO TOP OF PARAPET WALL BELOW LINE OF CAPPING FOR CONCEALED FIXING. ALLOW FOR CUTTING OF CAPPING SLABS AROUND POSTS.
SPECIALIST	04 ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, AS BALUSTRADE PANELS, COLLUMN, WEB DETAIL, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.	H61/115	12 EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIRKDALE RANGE. ALLOW FOR 50x25mm TREATED SW TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERBATTENS OVER 18mm WBP MARINE GRADE PLYWOOD DECKING OVER LIGHT GAUGE FANING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E DETAIL AND SPECIFICATION. ALLOW FOR FINISHES AND OVERBARS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE. COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES.	S.E SPEC	20 ALLOW FOR SPECIALIST DPC TREATMENT TO INTERNAL AND EXTERNAL FACES OF EXISTING EXTERNAL WALLS, TO APPROX 1m ABOVE EXTERNAL FFL.	Z11/58	31 SCREEN BETWEEN CAR PARKING AND OPEN PLANTED AREA TO BE FORMED FROM MARINE GRADE SELF FINISHED GLAZANIZED STEEL FLAT BARS AND SQUARE HOLLOW SECTIONS TO BS EN ISO 1461: 1999. 40x40mm SHS UPRIGHTS AND 40x15mm FLAT BARS, FORMING SCREEN AS DETAIL ALLOW FOR INTEGRATED LOCKABLE GATE IN MATCHING DESIGN FOR MAINTENANCE ACCESS.
M20/160	05 EXISTING EXTERNAL WALLS WHICH ARE TO REMAIN AS INTERNAL TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.	L10/650 J42/130	13 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH. ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.	S.E SPEC	21 GREEN ROOF EXTENSIVE SYSTEM BUILD-UP AS ZINCO EXTENSIVE GREEN ROOF SYSTEM OR SIMILAR APPROVED, COMPRISING OF LOW MAINTENANCE SELF-REGENERATING PLANTING OVER CROWING MEDIUM OVER FILTER SHEET LAYER OVER DRAINING MAT OVER SEPARATION LAYER OVER 100mm XPS THERMAL INSULATION SHEET OVER ROOF BARRIER SHEET OVER COMPATIBLE HEAVY DUTY DPM AS SIKKA PVC MEMBRANE OR SIMILAR APPROVED COMPATIBLE WATERPROOFING MEMBRANE. (GREEN ROOF EXTENSIVE SYSTEM SUBJECT TO SUPPLIERS RECOMMENDATION FOR LOCAL CLIMATE AND GOWNS RECOMMENDATIONS/APPROVAL ON COMPATIBILITY WITH LOCAL FLORA)	M&E SPEC	32 ALLOW FOR NATURAL VENT FLUE DUCTS TO M&E SPECIFICATION WITHIN RAMP VOID TO ENABLE ADDITIONAL FREE VENTILATION TO CAR PARKING SPACE BELOW. ALLOW FOR MARINE GRADE SELF FINISHED GALVANIZED STEEL GRATING WITH INSECT/VERMIN MESH BACKING TO SUIT FLUE DUCT SIZE OPENING.
C45/220	06 ALLOW FOR CONTINUOUS DPM TO BE TAKEN UP AND LAPPED/SEALED INTO INJECTED DPC AT MINIMUM 150MM ABOVE EXTERNAL FFL.	L10/490 M&E SPEC	14 PPC ALUMINIUM NATURAL LOUVERED STACK VENTILATION TERMINALS WITH MOTORISED TEMP & CO2 CONTROLLED ASSISTED FAN AND CONTROLLABLE INSULATED INTERNAL LOUVRES, AS AIRSTRAT MECHANICAL EXTRACT TERMINAL BY PASSANT OR SIMILAR ALLOW FOR 1 TERMINAL PER CLASSROOM TO SCHOOLS UPPER LEVELS, AND 1 TERMINAL PER APPROX 15M OF CORRIDOR RUNS TO UPPER LEVELS OF SCHOOLS. ALLOW FOR STEELWORK TRIMMERS FOR TERMINAL UNIT SUPPORTS AND TREATED SW TIMBER FRAMING FOR PLASTERBOARD SHIRT. ALLOW FOR CEILING LEVEL GRILLE TO SHIRT BASE.	S.E SPEC	22 CAR PARKING R.C SLAB TO STRUCTURAL ENGINEERS DETAIL TO RECEIVE ANTI SKID & ANTI SCREECH CARPARK PROTECTIVE DRIVING SURFACE FINISH AS 2 PART EPOXY RESIN SIKAFLOOR 264 WITH SIKAFLOOR 156 2 PART EPOXY PRIMER, OR SIMILAR APPROVED PRODUCT. CONTRACTOR TO ENSURE APPROPRIATE FINISHING OF SLAB SUBSTRATE FOR APPROPRIATE APPLICATION OF FINISHING PRODUCT.	S.E SPEC	33 UNDERPINNING STRUCTURE TO STRUCTURAL ENGINEERS DETAILS. PVC HOMOGENEOUS WATERPROOF TANKING SYSTEM OVER UNDERPINNING WALL AS PER SPECIALIST INSTALLER DETAIL RECOMMENDATIONS. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR EXTENT OF UNDERPINNING.
S.E SPEC	07 NEW R.C RING BEAM SET INTO TOP OF EXISTING WALL TO TAKE NEW HOT ROLLED STEEL FRAME FOR NEW ROOF STRUCTURE ALL TO STRUCTURAL ENGINEERS DETAIL AND SPECIFICATION.	L10/--	15 NEW WINDOWS GENERALLY IN EXISTING BUILDING TO BE PROPRIETARY, COMPOSITE TIMBER FRAME CURTAIN WALLING TILT & TURN, WINDOW AND FIXED PANE DOUBLE GLAZED WINDOWS BY MARVIN OR SIMILAR SYSTEM. ALLOW FOR FRAMED, GUIDED AUTOMATED SOLAR CONTROL ROLLER BLINDS AS SLENTGLASS OR SIMILAR.	S.E SPEC	24 RETAINING STRUCTURE AND UNDERPINNING REQUIREMENTS TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATIONS.	S.E SPEC	25 PODIUM DECKS AND RAMPS GENERALLY IN SITU REINFORCED CONCRETE, ALL TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATION, INCLUDING ALL MOVEMENT JOINTS, DECKS AND RAMPS TO RECEIVE SPECIALIST HIGH PERFORMANCE WATERPROOF DPM SYSTEM SUITABLE FOR MORTAR AND SLAB FINISH AS SIKKA SARNAFIL TS 77-18 WITH GEOTEXTILE LAYER OVER, TO RECEIVE MORTAR BED AND PAWING SLAB FINISH AS BRENCO LLOSA VULCANO OR SIMILAR ALLOW FOR SPECIALIST WATERPROOFING FINISH TO IN-SITU R.C STAIRWAYS AND WATERPROOFING DETAIL FOR MOVEMENT JOINTS TO LINEAR DRAINAGE SYSTEMS, GULLIES, GLAZED FLOORING.
K10/100 M60/100	08 INTERNAL PARTITIONS BETWEEN CLASSROOMS GENERALLY TO BE CONSTRUCTED FROM METAL STUD PARTITION SYSTEM BY METSEI OR SIMILAR APPROVED, CONSISTING OF METAL STUD FRAMING AS 90mm GTC STUD AT 600mm CTS OR SIMILAR, WITH ACOUSTIC INSULATION INFILL TO ACHIEVE A SOUND INSULATION LEVEL OF 51R _w OR BETTER, WITH 1 LAYER TO EITHER SIDE, OF 15mm WBP PLY TO FACILITATE WALL FIXING AND 15mm FEATHERED EDGE MEGACOCO BOARD FOR SEVERE DUTY, 60 MIN RATED, TO BE TAPED JOINTED AND FILLED TO RECEIVE PAINT FINISH AS SPECIFIED IN FINISHES SCHEDULE. ALLOW FOR STUD PARTITIONS TO BE BUILT UP TO UNDERSIDE OF FLOORS / ROOF LINING ABOVE, INCLUDING DEFLECTION BOARD DETAIL AND ACOUSTIC PROFILE FILLERS TO HEAD AND ACOUSTIC SEALANT TO BASE. GAPS AND SERVICES PENETRATIONS, FOR PENETRATIONS THROUGH FIRE COMPARTMENTATION WALLS ALLOW FOR FIRE DAMPERS/COLLARS AND FIRE RATED FILLERS. REFER TO G.A DRAWINGS FOR LOCATION OF PARTITION LINING TYPES.	F10/110 M21/210 K10/100	16 NEW EXTENSION WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TERMOARCILLA OR SIMILAR, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBERATHERM XM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U' VALUE TARGET). CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEGACOCO BOARD BY LAFARGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35W/m ² K.	S.E SPEC	26 EXISTING HISTORICAL FEATURE BALUSTRADING TO BE RESTORED REPAIRED TREATED AND REPAINTED TO BE REINSTALLED IN NEW FEATURE EXTERNAL WALKWAY DECK. MISSING LENGTHS OF HISTORICAL FEATURE BALUSTRADE WOOD COLUMNS TO BE REPLICATED IN STEEL AND RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR APPROVED METAL PAINT FINISH.		

FOR CONSTRUCTION

rev	date	amendments
A	13.03.14	NOTES & SPECIFICATION REFS ADDED.
B	14.04.14	D+W REFS ADDED
C	27.08.14	LEVELS ADDED
D	04.09.14	H1/H3 WINDOW LEVELS ALTERED

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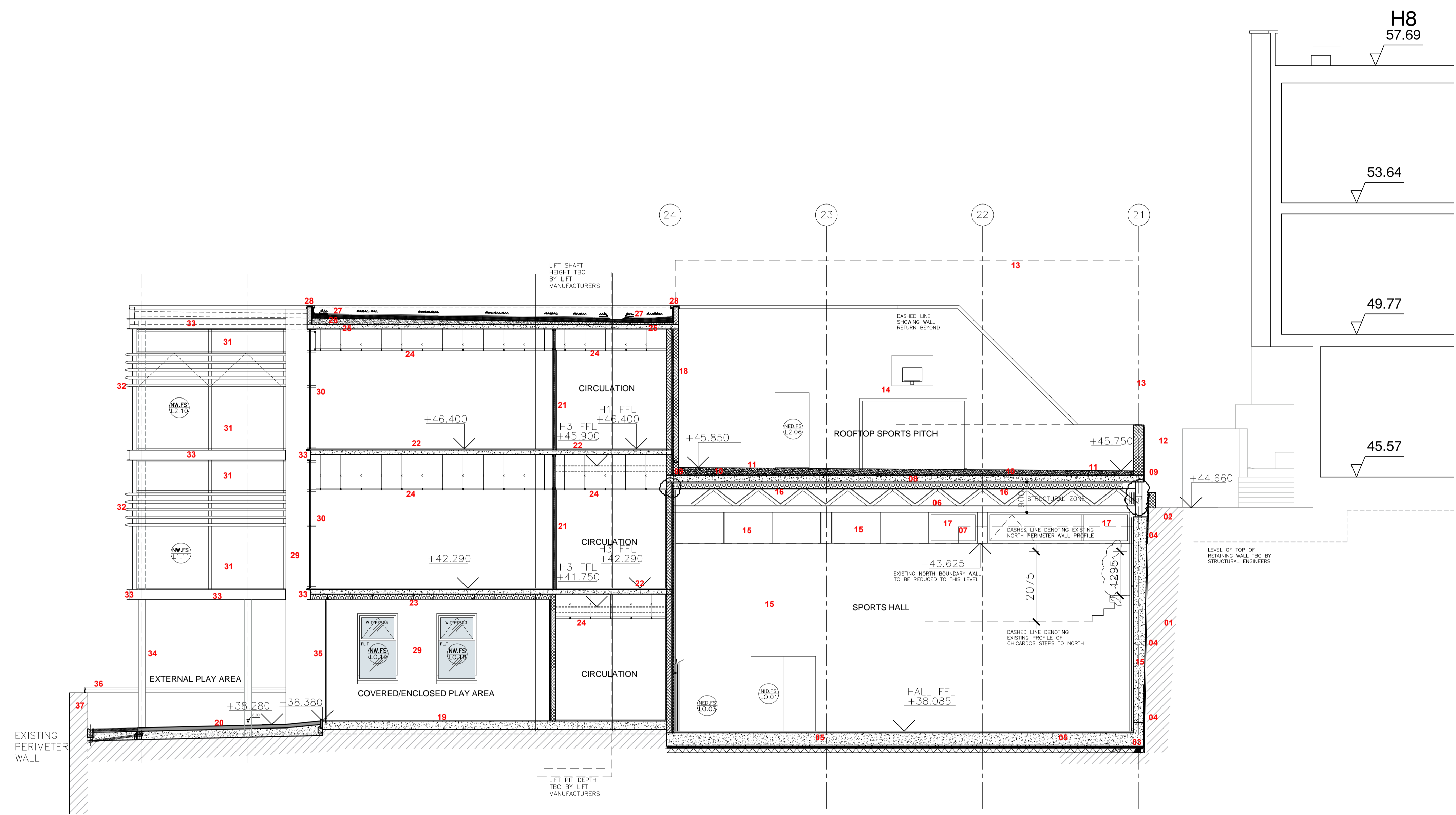
CLIENT: **GOVERNMENT OF GIBRALTAR
DEPARTMENT OF EDUCATION**

PROJECT: **ST BERNARDS SCHOOLS**

DRAWING TITLE: **PROPOSED SECTIONS
SECTIONAL ELEVATION 09**

SCALE	JOB + DRG REF No.	REV
1:75@A1	G568[8-009]-SX-09-75	D
DATE	28.02.14	

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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 10
 SECTIONAL ELEVATION THROUGH SPORTS HALL AND FIRST SCHOOL
 Scale 1:75

- NBS REF CONSTRUCTION NOTES**
- 01** EXCAVATED FACE TO RECEIVE SACRIFICIAL SHUTTERING AS 11mm OSB BOARDING TO LARGE VOID AREAS IN ORDER TO ACCEPT PVC HOMOGENEOUS WATERPROOF TANKING MEMBRANE SYSTEM BY SPECIALIST SUBCONTRACTOR AS SIKAPLAN OR SIMILAR TANKING SYSTEM, ALL BY SPECIALIST INSTALLER. EXISTING WALL FACE AT HIGH LEVEL TO BE PREPARED TO RECEIVE WATERPROOF TANKING MEMBRANE SYSTEM. REQUIREMENT FOR GEOTEXTILE PROTECTION LAYER AND PREPARATION OF SUBSTRATES ALL AS PER SPECIALIST SUPPLIER/INSTALLER DETAIL RECOMMENDATIONS.
 - 02** PVC HOMOGENEOUS WATERPROOF TANKING MEMBRANE SYSTEM BY SPECIALIST TO BE TAKEN UP FULL LENGTH OF EXISTING WALL, CONTINUING UP AND SEALED OVER NEWLY FORMED LOW BLOCKWORK WALL APPROX 450mm HIGH.
 - 03** PVC HOMOGENEOUS WATERPROOF TANKING MEMBRANE SYSTEM TO EXTEND MINIMUM 1.5m BELOW SLAB, TO BE LAPPED BONDED AND SEALED WITH CONTINUOUS 1200 GAUGE DPM, ALL AS PER SPECIALIST INSTALLER DETAIL RECOMMENDATIONS, ENSURING COMPATIBILITY WITH MEMBRANES.
 - 04** RETAINING WALL STRUCTURE TO STRUCTURAL ENGINEERS DETAILS CAST UP AGAINST PVC HOMOGENEOUS WATERPROOF TANKING SYSTEM OVER EXCAVATED WALL, AS PER SPECIALIST INSTALLER DETAIL RECOMMENDATIONS. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR EXTENT OF RETAINING WALL.
 - 05** R.C. SLAB TO STRUCTURAL ENGINEERS DETAIL TO RECEIVE POWER FLOATED FINISH IN ORDER TO RECEIVE SPORTS HALL INTERNAL FLOOR FINISH.
 - 06** LATTICE ORDER TO STRUCTURAL ENGINEERS DETAILS TO RECEIVE SMOOTH SPRAY APPLIED INTUMESCENT PAINT FINISH, COLOUR TBC.
 - 07** EXISTING BOUNDARY WALL TO BE REDUCED TO ACCOMMODATE NORTH FACING CLERESTORY WINDOWS
 - 08** ROOF SLAB SPANNING OVER LATTICE GIRDERS TO STRUCTURAL ENGINEERS DETAILS.
 - 09** CONTINUOUS DPM TO BE TAKEN UP SIDES TO TOP OF SCAFFOLD LEVEL. IN JUNCTIONS WITH CAVITY WALLS, DPM TO BE TAKEN UP INTERNAL FACE OF EXTERNAL LEAF - TUCKED AND SEALED WITH DPC AT MINIMUM 150mm ABOVE EXTERNAL FFL.
 - 10** STEEL REINFORCED FLOATING SCREED TO S.E. DETAIL WITH 125mm MINIMUM DEPTH TO ACCOMMODATE 25mm EXTERNAL CHANNEL FALLS IN SCREED TOWARDS OPEN CHANNEL DRAINAGE. ALLOW FOR NOMINAL FALLS WITHIN OPEN DRAINAGE CHANNEL TOWARDS OUTLET POSITIONS. ALLOW FOR TROWEL FINISH TO SCREED IN PREPARATION FOR SPECIALIST OUTDOOR SPORTS FLOORING FINISH.

- NBS REF CONSTRUCTION NOTES**
- 11** SPECIALIST OUTDOOR SPORTS FLOORING FINISH APPLIED DIRECTLY ONTO SCREED. FINISH TO BE TAKEN UP AND SEALED INTO PERIMETER WALLS MINIMUM 150mm ABOVE FFL.
 - 12** LOW LEVEL PERIMETER WALL TO EAST APPROX 120mm HIGH, IN HOLLOW CONCRETE BLOCK WITH STIFFENING RODS TO S.E. DETAIL. ALLOW FOR POCKETS TO TOP OF WALL TO TAKE POSTS FOR PERIMETER FENCING SYSTEM TO SPORTS PITCH.
 - 13** PERIMETER POSTS AND FENCING SYSTEM, INCLUDING SAFETY NETTING OVER, AS PER GSA RECOMMENDATIONS. SYSTEM TO BE APPROPRIATE FOR LOW LEVEL NOISE/REVERBERATION WITH LARGE DIAMETER BALL IMPACT. GSA TO CONFIRM HEIGHT OF FENCING/NETTING, WITH CONSIDERATION TO NEARBY WINDOW HEIGHT POSITIONS.
 - 14** SPORTS EQUIPMENT TO BE FIT FOR EXTERNAL USE IN HARSH ENVIRONMENTS, TYPE/QUANTITY TO BE CONFIRMED BY END USERS AND GSA.
 - 15** SPORTS HALL WALLS TO BE LINED INTERNALLY WITH HIGH PRESSURE LAMINATED PANELS AS TRESPA METEON FR (FIRE RESISTANT GRADE) SYSTEM WITH CONCEALED FIXINGS. FIXING SYSTEM TO BOTTOM SECTION APPROX 2.5m HIGH, TO BE SUITABLE FOR INDOOR SPORTS AND IMPACT WITH LARGE DIAMETER BALLS.
 - 16** ROOFTOP SPORTS PITCH SLAB TO BE UNDERDRAIN WITH ACOUSTIC PLASTERBOARD W/ SUSPENDED CEILING SYSTEM AS OYPROG OPTONE LINE 6, 1/3% PERFORATION AND ACOUSTIC TISSUE, WITH 150mm NON-COMBUSTIBLE MINERAL WOOL INSULATION AS ISOWOOL OR SIMILAR TO SEPARATING WALL WITH SCHOOL.
 - 17** HIGH LEVEL CLERESTORY WINDOWS TO NORTH ELEVATION IN THERMALLY BROKEN PVC COATED ALUMINIUM FRAMES WITH DOUBLE GLAZING AS TECHNICAL OR SIMILAR APPROVED. ALLOW FOR APPROX ONE THIRD OF GLAZED LIGHTS TO BE OPENABLE, TOP HUNG, WITH REMOTE MOTORIZED OPENING. ALL GLAZING PANELS TO HAVE FIXED FRAMED DRA-OUT BLINDS WITH REMOTE MOTORIZED CONTROL AS SILENTGLASS OR SIMILAR APPROVED.
 - 18** EXTERNAL WALL CONSTRUCTED FROM 140mm INTERNAL DENSE CONCRETE BLOCK WITH 60mm CAVITY AND 140mm EXTERNAL DENSE CONCRETE BLOCK, 60mm FULL FILL BATTS INSULATION, CAVITY WALL EXTERNALLY TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AS AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT. NBS REF M20/160. REFER TO GENERAL ARRANGEMENT PLANS FOR INTERNAL WALL FINISHES/LININGS.

- NBS REF CONSTRUCTION NOTES**
- 19** NEW R.C. SLAB IN COVERED PLAY AREA TO STRUCTURAL ENGINEERS DETAILS OVER REDUCED LEVELS TO S.E. REQUIREMENTS, HARCORE, BUILDING AND CONTINUOUS DPM, TO RECEIVE POWDERFLOATED SPECIALIST RESIN FINISH WITH RUBBER SHOCKPAD BUILDUP AS SIKAREGUL OR SIMILAR.
 - 20** AREA OUTSIDE COVERED PLAY ZONE TO BE 100mm DEEP RUBBER CRUMB SAFETY FLOORING. ALL OTHER EXTERNAL AREAS TO RECEIVE EXTERNAL CONCRETE TILES AS LLOSA VULCANO OR SIMILAR. REFER TO GENERAL ARRANGEMENT PLANS FOR FLOOR FINISHES 0568[5-000] SERIES DRAWINGS.
 - 21** INTERNAL PARTITIONS IN LIGHT GAUGE STEEL STUDS - REFER TO GENERAL ARRANGEMENT PLANS 0568[5-000] SERIES DRAWINGS FOR LINING TYPES AND INFILL SOUND INSULATION. ALLOW FOR DEFLECTION HEAD DETAILS TO ALL LIGHT GAUGE STEEL STUD PARTITIONS.
 - 22** NEW STRUCTURAL SEPARATING FLOORS TO REPLACE EXISTING TIMBER FLOOR CONSTRUCTION, AS STRUCTURAL ENGINEERS DETAILS, COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR OVER STEEL JOISTS TO S.E. DETAIL, WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS ETHAFOAM, WITH 20mm T+G BOARDING AND HEAVY DUTY RESIN FLOORING FINISH. SEPARATING FLOORS TO BE UNDERLINED WITH SUSPENDED EXPOSED GRID AND TILE CEILING SYSTEM GENERALLY UNLESS OTHERWISE SPECIFIED. SEPARATING FLOOR BUILD-UP TO ACHIEVE A PERFORMANCE Pn RANGE LEVEL OF 55-60 (dB) SEPARATING FLOOR BUILD-UP TO ACHIEVE A MINIMUM FIRE RATING OF 60MIN. ALLOW FOR SERVICES PENETRATIONS AND FIRE DAMPERS/COLLARS.
 - 23** UNDERSIDE OF FLOOR SLAB TO BE UNDERDRAIN WITH EXTERNAL RENDER BASE BOARD AS LAFARGE CTC2 RENDERBOARD OR BULCLAD OR SIMILAR CEMENTITIOUS CALCIUM SILICATE RENDER BASE BOARD FIXED THROUGH TO LIGHT GAUGE STEEL FRAMING, CENTRES AND FIXINGS TO BOARD MANUFACTURERS DETAIL RECOMMENDATIONS, WITH 150mm MINERAL WOOL INSULATION INFILL AS ISOWOOL OR SIMILAR TO ACHIEVE TARGET ELEMENTAL VALUE OF 0.25W/m²K. RENDER BASE BOARD TO TAKE THROUGH COLOUR ACRYLIC RENDER FINISH WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - 24** SUSPENDED EXPOSED GRID AND TILE MF CEILING SYSTEM. REFER TO REFLECTED CEILING LAYOUTS 0568[6-000] SERIES DRAWINGS FOR CEILING TYPES.
 - 25** ROOF SLAB TO STRUCTURAL ENGINEERS DETAIL TO TAKE 1200 GAUGE DPM TAKEN UP SIDES TO TOP OF INTERNAL FACE OF PARAPET WALL.
 - 26** SCREED TO FALLS AS PER STRUCTURAL ENGINEERS SPECIFICATION
 - 27** GREEN ROOF EXTENSIVE SYSTEM BUILD-UP AS ZNCO EXTENSIVE GREEN ROOF SYSTEM OR SIMILAR APPROVED, COMPRISING OF LOW MAINTENANCE SELF-REGENERATING PLANTING OVER GROWING MEDIUM OVER FILTER SHEET LAYER OVER DRAINING MAT OVER SEPARATION LAYER OVER 100mm XPS THERMAL INSULATION SHEET OVER ROOT BARRIER SHEET OVER COMPATIBLE HEAVY DUTY DPM AS SIKAPVC MEMBRANE OR SIMILAR APPROVED COMPATIBLE WATERPROOFING MEMBRANE. (GREEN ROOF EXTENSIVE SYSTEM SUBJECT TO SUPPLIERS RECOMMENDATION FOR LOCAL CLIMATE AND GONHS RECOMMENDATIONS/APPROVAL ON COMPATIBILITY WITH LOCAL FLORA)

- NBS REF CONSTRUCTION NOTES**
- 28** PARAPET CAPPING PIECE FORMED FROM PREFORMED PPC ALUMINIUM TO PROFILE INCLUDING FIXING CLIPS FOR CONCEALED FIXING.
 - 29** EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - 30** PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF TECHNICAL OR SIMILAR APPROVED SYSTEM, WITH VERTICALLY EXPRESSED EXTERNAL MULLIONS. ALLOW FOR GLAZED INSULATED SPANREL PANEL SECTIONS AT HIGH LEVEL.
 - 31** PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TOP HUNG AND FIXED PANE DOUBLE GLAZED WINDOWS WITH CONCEALED FRAMES AND EXTERNALLY EXPRESSED JOINTS BY TECHNICAL REF TECHNICAL REF SSG SYSTEM. ALLOW FOR GLAZED INSULATED SPANREL PANEL SECTIONS AT HIGH LEVEL.
 - 32** HORIZONTAL BRISE-SOLEIL SYSTEM WITH FIXED CONTINUOUS SEMIELLIPITICAL FINIS IN PPC ALUMINIUM AS SUNEAL BY TECHNICAL OR SIMILAR. APPROX DIMS: 225x75mm. ALLOW FOR SUPPORT STRUCTURE SPANNING BETWEEN FEATURE HORIZONTAL PFC CHANNELS TO SPECIALIST MANUFACTURER/INSTALLER REQUIREMENTS.
 - 33** HORIZONTAL FEATURE PFC CHANNEL 300mm DEEP, IN MARINE GRADE GALVANIZED STEEL. PREPARED WITH CHEMICAL ETCHING MORDANT SOLUTION BY DULUX OR SIMILAR IN ORDER TO RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR, RAL COLOUR TBC.
 - 34** EXTERNAL CIRCULAR STRUCTURAL STEEL COLUMN TO RECEIVE SMOOTH SPRAY APPLIED INTUMESCENT PAINT FINISH.
 - 35** GLAZED FOLDING SLIDING SCREEN DOUBLE GLAZED WITH PVC ALUMINIUM THERMALLY BROKEN FRAMES AS TECHNICAL PFM FOLDING DOOR SYSTEM OR SIMILAR. STRUCTURAL ENGINEERS TO ALLOW FOR HEAD RAIL FIXING OF SUSPENDED FOLDING DOORS. ALLOW FOR BOTTOM SUNKEN EMBEDDED THRESHOLD & GUIDE, FIT FOR SEVERE WEATHER CONDITIONS.
 - 36** MARINE GRADE GALVANIZED STEEL HANDRAIL TO MAKE UP MINIMUM HEIGHT FROM FFL AT 1200mm.
 - 37** EXISTING PERIMETER WALL. STRUCTURAL ENGINEERS TO CONFIRM WHETHER EXISTING WALL IS TO REMAIN. ALL EXISTING REMAINING PERIMETER MASONRY WALLS TO BE REPAIRED AND PREPARED TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
 - 38** ALLOW FOR SLAB LEVEL GUILLEY WITH FINE GRADE FIBRE MESH TO PROVIDE FREE DRAINAGE BELOW RUBBER CRUMB FINISH, CONNECTED TO EXISTING DRAINAGE.

FOR CONSTRUCTION

rev	date	amendments
A	13.03.14	NOTES & SPECIFICATION REFS ADDED. TANKING DETAILS AMENDED FOLLOWING SPECIALIST DESIGN RECOMMENDATIONS
B	14.04.14	D+W REFS ADDED

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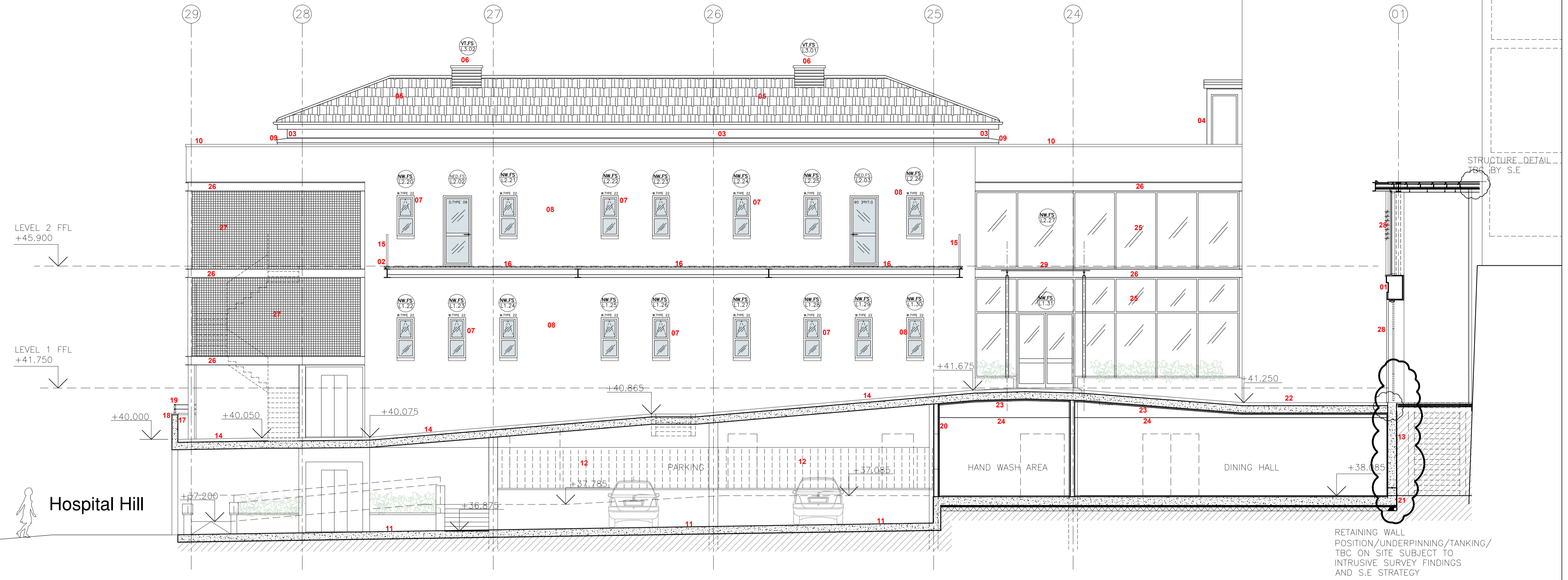
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DEPARTMENT OF EDUCATION

PROJECT
ST BERNARDS SCHOOLS

DRAWING TITLE
PROPOSED SECTIONS
SECTIONAL ELEVATION 10

SCALE 1:75@A1	JOB + DRG REF No. G568[8-010]_SK-10-75	REV B
DATE 28.02.14		

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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 11
 LONGITUDINAL SECTIONAL THROUGH PODIUM RAMP ACCESS TO FIRST SCHOOL, DINING HALL AND PARKING
 Scale 1:75

NBS REF	CONSTRUCTION NOTES	NBS REF	CONSTRUCTION NOTES	NBS REF	CONSTRUCTION NOTES
M20/160	01 EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED. REFER TO WSRM DRAWING G566[8-011] FOR DETAILS. GREEN ROOF SYSTEM COMPRISING OF LOW MAINTENANCE SELF-REGENERATING PLANTING OVER GROWING MEDIUM OVER FILTER SHEET LAYER OVER DRAINING MAT OVER SEPARATION LAYER OVER 100mm XPS THERMAL INSULATION SHEET OVER ROOT BARRIER SHEET OVER COMPATIBLE HEAVY DUTY DPM AS Sika Pvc MEMBRANE OR SIMILAR APPROVED COMPATIBLE WATERPROOFING MEMBRANE (GREEN ROOF EXTENSIVE SYSTEM SUBJECT TO SUPPLIERS RECOMMENDATION FOR LOCAL CLIMATE AND GDNHS RECOMMENDATIONS/APPROVAL ON COMPATIBILITY WITH LOCAL FLORA)	10 PARAPET WALLS WITH PPC ALUMINIUM CAPPING TO GREEN ROOF EXTENSIVE SYSTEM BUILD-UP AS ZINCO EXTENSIVE GREEN ROOF SYSTEM OR SIMILAR APPROVED. REFER TO WSRM DRAWING G566[8-011] FOR DETAILS. GREEN ROOF SYSTEM COMPRISING OF LOW MAINTENANCE SELF-REGENERATING PLANTING OVER GROWING MEDIUM OVER FILTER SHEET LAYER OVER DRAINING MAT OVER SEPARATION LAYER OVER 100mm XPS THERMAL INSULATION SHEET OVER ROOT BARRIER SHEET OVER COMPATIBLE HEAVY DUTY DPM AS Sika Pvc MEMBRANE OR SIMILAR APPROVED COMPATIBLE WATERPROOFING MEMBRANE (GREEN ROOF EXTENSIVE SYSTEM SUBJECT TO SUPPLIERS RECOMMENDATION FOR LOCAL CLIMATE AND GDNHS RECOMMENDATIONS/APPROVAL ON COMPATIBILITY WITH LOCAL FLORA)	20 WALL BETWEEN HAND WASH AREA AND CAR PARKING AREA TO BE FORMED FROM 140mm CONCRETE BLOCK LINED INTERNALLY WITH THERMAL BOARD. REFER TO WSRM DRAWINGS G566[8-000] SERIES FOR WALL FINISHES AND LINING TYPES	S.E. SPEC SPECIALIST	21 UNDERPINNING STRUCTURE TO STRUCTURAL ENGINEERS DETAILS. PVC HOMOGENOUS WATERPROOF TANKING SYSTEM OVER UNDERPINNING WALL AS PER SPECIALIST INSTALLER DETAIL RECOMMENDATIONS. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR EXTENT OF UNDERPINNING.
SPECIALIST	02 ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, AS EXHIBITURE PANELS, COLUMN, WEB DETAIL METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.	S.E. SPEC M12/113	11 CAR PARKING R/C SLAB TO STRUCTURAL ENGINEERS DETAIL TO RECEIVE ANTI-SKID & ANTI-SKEW CARPARK PROTECTIVE DRIVING SURFACE FINISH AS 2 PART EPOXY RESIN SIKAFLOOR 264 WITH SIKAFLOOR 156 2 PART EPOXY PRIMER, OR SIMILAR APPROVED PRODUCT. CONTRACTOR TO ENSURE APPROPRIATE FINISHING OF SLAB SUBSTRATE FOR APPROPRIATE APPLICATION OF FINISHING PRODUCT.	S.E. SPEC	22 PODIUM AREA OVER DINING SPACE TO BE FORMED IN INSITU REINFORCED CONCRETE WITH HIGH PERFORMANCE DPM OVER, WITH EMBEDDED CLASS 1 AGGREGATE READY TO TAKE 75mm DEEP SCORED, SMOOTH SELF FINISH FOR NON-SLIP SURFACE. ALLOW FOR FEATURE EMBEDDED FLUSH GRADE 316 STAINLESS STEEL 20mm WIDE INSERTS Laid ORTHOGONALLY.
L10/650	03 ROOF VENTILATION LOUVRES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.	S.E. SPEC	12 GLAZED WALL BETWEEN CAR PARK AND PEDESTRIAN WALKWAY ACCESS TO SPORTS HALL TO BE FORMED IN 2 LAYERS OF VERTICAL FULL HEIGHT U PROFILE SELF SUPPORTING GLAZED SECTIONS AS RECLIT PROFILIT OR SIMILAR APPROVED PRODUCT. ALLOW FOR TOP AND BOTTOM CHANNELS, CLIPS AND SEALANTS AS PER MANUFACTURERS RECOMMENDATIONS.	K10/--	24 CEILING IN 12.5mm MOISTURE RESISTANT MF PLASTERBOARD LINING, TAPED AND JOINTED, TO RECEIVE MOISTURE RESISTANT PAINT FINISH.
H61/115	04 ACCESS ON TO ROOF CONSTRUCTED FROM 190mm TERMOARILLA BLOCK WITH RENDERED OUTSULATION AS WEBER VERMIN OR SIMILAR APPROVED. ALLOW FOR FLAT ROOF CONSTRUCTION IN TIMBER JOISTS TO S.E. DETAIL AND 18mm WBP PLY DECK WITH RIGID INSULATION TO FALLS AND HIGH PERFORMANCE POLYMERIC SINGLE PLY MEMBRANE WATERPROOF COVERING AS Sika Sarnafil OR SIMILAR APPROVED PRODUCT. ALLOW FOR PPC ALUMINIUM LOCKABLE ACCESS DOOR WITH SOLID SPANDREL PANELS, COLOUR TO MATCH WINDOW FRAMES.	S.E. SPEC Q24/110	13 RETAINING STRUCTURE AND UNDERPINNING REQUIREMENTS TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATIONS.	L10/460 S.E. SPEC	25 FIRST SCHOOL ENTRANCE LOBBY CURTAIN WALLING IN THERMALLY BROKEN PPC COATED ALUMINIUM FRAME, DOUBLE GLAZED UNITS WITH CONCEALED FRAME AND EXPRESSED JOINTS AS TECHNICAL GEODE MX SG OR SIMILAR APPROVED PRODUCT. REFER TO WSRM WINDOW SCHEDULE DRAWING REF G566[8-000] SERIES FOR TYPES. ALLOW FOR SECONDARY STEELWORK TO S.E. DETAIL.
L10/650 J42/130	05 EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIRKDALE RANGE. ALLOW FOR 50x25mm TREATED SW TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COVERTRENDS OVER 18mm WBP MARINE GRADE PLYWOOD DECKING OVER LIGHT GAUGE FRAMING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E. DETAIL AND SPECIFICATION. ALLOW FOR FIXINGS AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE, COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES.	SPECIALIST S.E. SPEC	14 PODIUM DECKS AND RAMPS GENERALLY IN INSITU REINFORCED CONCRETE, ALL TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATION, INCLUDING ALL MOVEMENT JOINTS, DECKS AND RAMPS TO RECEIVE SPECIALIST HIGH PERFORMANCE WATERPROOF DPM SYSTEM SUITABLE FOR MORTAR AND SLAB FINISH AS Sika Sarnafil TS 77-18 WITH GEOTEXTILE LAYER OVER, TO RECEIVE MORTAR BED AND PAVING SLAB FINISH AS BRENOCO LUSO VULCANO OR SIMILAR. ALLOW FOR SPECIALIST WATERPROOFING FINISH TO INSITU R/C STAIRWAYS AND WATERPROOFING DETAIL FOR MOVEMENT JOINTS, TO LINEAR DRAINED SYSTEMS, GULLIES, GLAZED FLOORING.	Z11/58 S.E. SPEC	26 HORIZONTAL FEATURE PPC CHANNEL 300mm DEEP, IN MARINE GRADE GALVANIZED STEEL, PREPARED WITH CHEMICAL ETCHING MORDANT SOLUTION BY DULUX OR SIMILAR S.E. APPROVED PREPARATION IN ORDER TO RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR, RAL COLOUR TBC.
L10/330	06 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH. ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.	SPECIALIST S.E. SPEC	15 EXISTING HISTORICAL FEATURE BALUSTRADING TO BE RESTORED REPAIRED TREATED AND REPAINTED TO BE REINSTALLED IN NEW FEATURE EXTERNAL WALKWAY DECK. MISSING LENGTHS OF HISTORICAL FEATURE BALUSTRADING AND COLUMNS TO BE REPLICATED, DETAIL TO S.E. APPROVAL IN STEEL AND RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR APPROVED METAL PAINT FINISH.	L10/460 S.E. SPEC	27 SATIN ANODIZED ALUMINIUM EXPANDED MESH CLADDING PANELS, GAP SIZES APPROX. 38mmx37mm, REF 1095A BY THE EXPANDED METAL COMPANY OR SIMILAR APPROVED PRODUCT. CONTRACTOR TO PROVIDE SAMPLE PANELS FOR APPROVAL. ALLOW FOR PERIMETER TRIMS IN MATERIAL TO MATCH PANELS TO ALL PANEL EDGES. MANUFACTURER/SUPPLIER TO ADVISE ON REQUIREMENT FOR SECONDARY SUPPORT SYSTEMS AND MAX PANEL SIZES AVAILABLE TO SUIT DESIGN, TO S.E. APPROVAL.
F10/110 M21/210 K10/100	07 NEW WINDOWS GENERALLY IN EXTENSION BUILDING TO BE PROPRIETARY, THERMALLY BROKEN PPC ALUMINIUM FRAMED DOUBLE GLAZED WINDOWS AS TECHNICAL SOKAL FY OR SIMILAR APPROVED WINDOWS. REFER TO WINDOW SCHEDULES WSRM DRAWING REF G566[8-000] SERIES FOR TYPES, OPENING TYPES, FENESTRATION, GLAZING TYPES, ETC.	S.E. SPEC	16 NEW FEATURE EXTERNAL WALKWAY TO BE FORMED FROM STRUCTURAL SLAB TO STRUCTURAL ENGINEERS DETAIL, FINISHED WITH REVEED IRKO HARDWOOD BECKING AND UNDERDRAWN WITH SMOOTH IRKO HARDWOOD SARKING SUBJECT TO ARCHITECT APPROVAL OF SAMPLE.	Z11/58 S.E. SPEC	28 CURTAIN WALLING TO MIDDLE SCHOOL MAIN ENTRANCE LOBBY TO BE THERMALLY BROKEN PPC COATED ALUMINIUM FRAME, DOUBLE GLAZED UNITS WITH CONCEALED FRAME AND EXPRESSED JOINTS EXTERNALLY AS TECHNICAL GEODE MX SG OR SIMILAR APPROVED PRODUCT. REFER TO WSRM WINDOW SCHEDULE DRAWING REF G566[8-000] SERIES FOR TYPES. ALLOW FOR SECONDARY STEELWORK TO S.E. DETAIL.
	08 NEW EXTENSION WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TERMOARILLA OR SIMILAR, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBERATHERM OR SIMILAR APPROVED INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U' VALUE TARGET). CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEGACORDEO BOARD BY LAFARGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK. OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35w/m²K.	M20/160 Q24/110 Z11/58	17 PARAPET WALLS GENERALLY TO BE CONSTRUCTED IN HOLLOW CONCRETE BLOCK APPROX 600mm HIGH WITH BALUSTRADING OVER TO A MIN HEIGHT OF 1150mm ABOVE FFL WITH CONCRETE INFILL AND STEEL ROD REINFORCEMENT BARS TO STRUCTURAL ENGINEERS DETAIL, TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR RENDER AS WEBER OR SIMILAR APPROVED PRODUCT. ALLOW FOR PROPRIETARY RENDER STOP BEADS.		29 GLAZED ENTRANCE CANOPY TO FIRST SCHOOL BY SPECIALIST. ALLOW FOR STRUCTURAL SUPPORTS AND SUPPORT FRAMING TO S.E. DETAIL, TO BE IN MARINE GRADE GALVANIZED STEEL, PREPARED WITH CHEMICAL ETCHING MORDANT SOLUTION BY DULUX OR SIMILAR S.E. APPROVED PREPARATION IN ORDER TO RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR, RAL COLOUR TBC.
	09 ALLOW FOR PREFORMED PPC ALUMINIUM COVER FLASHINGS WITH DRIP DETAIL TO TOP OF ALL EXPOSED EXISTING MASONRY WALLS. ALLOW FOR FORMING OF FALL WITH SAND/CEMENT FILLET WITH LIQUID WATERPROOF LAC FINISH AS BLACKJACK OR SIMILAR.		18 ALL PARAPET WALLS TO BE CAPPED WITH APPROX 40mm THICK RECONSTITUTED STONE TILE COPING.		
			19 ALLOW FOR APPROX 500mm HIGH BALUSTRADING OVER PARAPET WALLS FORMED FROM MARINE GRADE SELF FINISHED GALVANIZED STEEL FLAT BARS TO BS EN ISO 1461:1999. HORIZONTAL SECTIONS FORMED FROM 40x15mm FLAT BARS WITH VERTICALS IN 40x40mm SHS. ALLOW FOR WELDED BASEPLATE TO VERTICAL POSTS FOR FIXING ON TO TOP OF PARAPET WALL BELOW LINE OF CAPPING FOR CONCEALED FIXING. ALLOW FOR CUTTING OF CAPPING SLABS AROUND POSTS.		

FOR CONSTRUCTION

rev	date	amendments
A	14.04.14	NOTES & SPECIFICATION REFS ADDED. D-W REFS ADDED

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CLIENT	GOVERNMENT OF GIBRALTAR DEPARTMENT OF EDUCATION	
PROJECT	ST BERNARDS SCHOOLS	
DRAWING TITLE	PROPOSED SECTIONS SECTIONAL ELEVATION 11	
SCALE	JOB + DRG REF No.	REV
1:75@A1	G566[8-011]_SK-11-75	A
DATE		
28.02.14		

NOTES :
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**ST BERNARDS SCHOOLS
 ELEVATION 12
 PROPOSED FIRST SCHOOL AND MAIN ENTRANCE ELEVATION [WEST]
 Scale 1:75**

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| NBS REF | CONSTRUCTION NOTES |
| M20/160 | 01 EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL) TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT. |
| SPECIALIST | 02 ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, AS BALUSTRADE PANELS, COLUMN, WEB DETAIL, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING. |
| L10/650 | 03 ROOF VENTILATION LOUVRES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH. |
| | 04 ACCESS ON TO ROOF CONSTRUCTED FROM 190mm TERMOARCOLLA BLOCK WITH RENDERED OUTSULATION AS WEBER XTHERM OR SIMILAR APPROVED. ALLOW FOR FLAT ROOF CONSTRUCTION IN TIMBER JOISTS TO S.E. DETAIL AND 180mm WBP PLY DECK WITH ROD INSULATION TO FALLS AND HIGH PERFORMANCE POLYURETHANE SINGLE PLY MEMBRANE WATERPROOF COVERING AS SIKKA SARNAFIL OR SIMILAR APPROVED PRODUCT. ALLOW FOR PPC ALUMINIUM LOCKABLE ACCESS DOOR WITH SOLID SPANDREL PANELS, COLOUR TO MATCH WINDOW FRAMES. |
| GSLA | 05 ROOFTOP PITCH PERIMETER POSTS AND FENCING SYSTEM, INCLUDING SAFETY NETTING OVER, AS PER GSLA RECOMMENDATIONS, SYSTEM TO BE APPROPRIATE FOR LOW LEVEL NOISE/REVERBERATION WITH LARGE DIAMETER BALL IMPACT, GSLA TO CONFIRM HEIGHT OF FENCING/NETTING, WITH CONSIDERATION TO NEARBY WINDOW HEIGHT POSITIONS. |
| H61/115 | 06 EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIRKDALE RANGE. ALLOW FOR 50x25mm TREATED SH TIMBER BATTENS OVER WATERPROOFING ROOFING UNDERLAY AND COUNTERBATTENS OVER 180mm WBP MARINE GRADE PLYWOOD DECKING OVER LIGHT GAUGE FRAMING SPANNING BETWEEN HOT ROLLED STEEL RATTERS TO S.E. DETAIL AND SPECIFICATION. ALLOW FOR FININGS AND OVERLAPS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE. COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES. |
| L10/650
J42/130 | 07 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH. ROOF CAPPING TO BE FORMED FROM POLYURETHIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 180mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS. |
| L10/330 | 08 NEW WINDOWS GENERALLY IN EXTENSION BUILDING TO BE PROPRIETARY, THERMALLY BROKEN PPC ALUMINIUM FRAMED DOUBLE GLAZED WINDOWS AS TECHNICAL SOLEL FT OR SIMILAR APPROVED WINDOWS, REFER TO WINDOW SCHEDULES WSRM DRAWING REF 0568[9-000] SERIES FOR SIZES, OPENING TYPES, FENESTRATION, GLAZING TYPES, ETC. |
| H11/--- | 09 PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TOP HUNG AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF MX VISIBLE GRID OR SIMILAR APPROVED SYSTEM, WITH VERTICALLY EXPRESSED EXTERNAL MULLIONS, ALLOW FOR GLAZED INSULATED SPANDREL PANEL SECTIONS AT HIGH LEVEL. |

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| NBS REF | CONSTRUCTION NOTES |
| L10/340
L10/341 | 10 WINDOWS TO EXISTING BUILDING GENERALLY TO BE PROPRIETARY, THERMALLY BROKEN ALUMINIUM CLAD TIMBER FRAME WINDOWS AS MARVIN CLAD WOOD ULTIMATE OR SIMILAR APPROVED TOP HUNG, SASH AND FIXED PANE WINDOWS, REFER TO WSRM WINDOW SCHEDULE 0568[9-000] SERIES FOR WINDOW TYPES. |
| | 11 GLAZED FOLDING SLIDING SCREEN DOUBLE GLAZED WITH PPC ALUMINIUM THERMALLY BROKEN FRAMES AS TECHNICAL PFM FOLDING DOOR SYSTEM OR SIMILAR, STRUCTURAL ENGINEERS TO ALLOW FOR HEAD RAIL FIXING OF SUSPENDED FOLDING DOORS, ALLOW FOR BOTTOM SLUNKEN EMBEDDED THRESHOLD & GUIDE, FIT FOR SEVERE WEATHER CONDITIONS. |
| | 12 NEW EXTENSION WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TERMOARCOLLA OR SIMILAR, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBER XTHERM XM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U' VALUE TARGET). CERAMIC BLOCKS TO BE LINED INTERNALLY WITH HIGH IMPACT LINING AS 1 LAYER 15mm MEGADECCO BOARD BY LAFARGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK, OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35w/m ² K. |
| | 13 ALLOW FOR PREFORMED PPC ALUMINIUM COVER FLASHINGS WITH DRIP DETAIL TO TOP OF ALL EXPOSED EXISTING MASONRY WALLS, ALLOW FOR FORMING OF FALL WITH SAND/CEMENT FILLET WITH LIQUID WATERPROOF LAC FINISH AS BLACKGLAC OR SIMILAR. |
| | 14 NEW ROOF PARAPET WALL CAPPING PIECE FORMED FROM PREFORMED PPC ALUMINIUM TO PROFILE INCLUDING FIXING CLIPS FOR CONCEALED FIXING. |
| | 15 ROOF PARAPET WALLS WITH PPC ALUMINIUM CAPPING TO GREEN ROOF EXTENSIVE SYSTEM BUILD-UP AS ZINC EXTENSIVE GREEN ROOF SYSTEM OR SIMILAR APPROVED, REFER TO WSRM DRAWING 0568[1-001] FOR DETAILS, GREEN ROOF SYSTEM COMPRISING OF LOW MAINTENANCE SELF-REGENERATING PLANTING OVER GROWING MEDIUM OVER FILTER SHEET LAYER OVER DRAINING MAT OVER SEPARATION LAYER OVER 100mm XPS THERMAL INSULATION SHEET OVER ROOT BARRIER SHEET OVER COMPATIBLE HEAVY DUTY DPM AS SIKKA PVC MEMBRANE OR SIMILAR APPROVED COMPATIBLE WATERPROOFING MEMBRANE, (GREEN ROOF EXTENSIVE SYSTEM SUBJECT TO SUPPLIERS RECOMMENDATION FOR LOCAL CLIMATE AND GOVHS RECOMMENDATION/APPROVAL ON COMPATIBILITY WITH LOCAL FLORA) |
| S.E SPEC
M12/113 | 16 CAR PARKING R.C SLAB TO STRUCTURAL ENGINEERS DETAIL TO RECEIVE ANTI SKID & ANTI SCREECH CARPARK PROTECTIVE DRIVING SURFACE FINISH AS 2 PART EPOXY RESIN SKATLOOR 254 WITH SKATLOOR 156 2 PART EPOXY PRIMER, OR SIMILAR APPROVED PRODUCT, CONTRACTOR TO ENSURE APPROPRIATE FINISHING OF SLAB SUBSTRATE FOR APPROPRIATE APPLICATION OF FINISHING PRODUCT. |
| S.E SPEC
Q24/110 | 17 PODIUM DECKS AND RAMPS GENERALLY IN INSITU REINFORCED CONCRETE, ALL TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATION, INCLUDING LIFT MOVEMENT JOINTS, DECKS AND RAMPS TO RECEIVE SPECIALIST HIGH PERFORMANCE WATERPROOF DPM SYSTEM SUITABLE FOR MORTAR AND SLAB FINISH AS SIKKA SARNAFIL 15 77-18 WITH GEOTEXTILE LAYER OVER, TO RECEIVE MORTAR BED AND PAWING SLAB FINISH AS BRECON LLOSA VULCANO OR SIMILAR, ALLOW FOR SPECIALIST WATERPROOFING FINISH TO INSITU R.C STAIRWAYS AND WATERPROOFING DETAIL FOR MOVEMENT JOINTS, TO LINEAR DRAINAGE SYSTEMS, GULLIES, GLAZED FLOORING. |

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| NBS REF | CONSTRUCTION NOTES |
| SPECIALIST | 18 EXISTING HISTORICAL FEATURE BALUSTRADING TO BE RESTORED REPAIRED TREATED AND REPAINTED TO BE REINSTALLED IN NEW FEATURE EXTERNAL WALKWAY DECK, MISSING LENGTHS OF HISTORICAL FEATURE BALUSTRADE AND COLUMNS TO BE REPLICATED IN STEEL, AND RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR APPROVED METAL PAINT FINISH. |
| S.E SPEC | 19 NEW EXTERNAL FEATURE WALKWAY TO BE FORMED FROM STRUCTURAL SLAB TO STRUCTURAL ENGINEERS DETAIL, FINISHED WITH REVED IROKO HARDWOOD DECKING AND UNDERDRAWN WITH SMOOTH IROKO HARDWOOD SARKING SUBJECT TO ARCHITECT APPROVAL OF SAMPLE. |
| Q24/110 | 20 PARAPET WALLS GENERALLY TO BE CONSTRUCTED IN HOLLOW CONCRETE BLOCK APPROX 600mm HIGH WITH BALUSTRADING OVER TO A MIN HEIGHT OF 1150mm ABOVE FFL WITH CONCRETE INFILL AND STEEL ROD REINFORCEMENT BARS TO STRUCTURAL ENGINEERS DETAIL, TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR RENDER AS WEBER XTHERM XM APPROVED PRODUCT, ALLOW FOR PROPRIETARY RENDER STOP BEADS. |
| Z11/58 | 21 ALL PARAPET WALLS TO BE CAPPED WITH APPROX 40mm THICK RECONSTITUTED STONE TILE COPING. |
| Z11/58
S.E SPEC | 22 ALLOW FOR APPROX 300mm HIGH BALUSTRADING OVER PARAPET WALLS FORMED FROM MARINE GRADE SELF FINISHED GALVANIZED STEEL FLAT BARS TO BS EN ISO 1461:1999, HORIZONTAL SECTIONS FORMED FROM 40x15mm FLAT BARS WITH VERTICALS IN 40x40mm SHS, ALLOW FOR WELDED BASEPLATE TO VERTICAL POSTS FOR FIXING ONTO TOP OF PARAPET WALL BELOW LINE OF CAPPING FOR CONCEALED FIXING, ALLOW FOR CUTTING OF CAPPING SLABS AROUND POSTS. |
| | 23 MIDDLE SCHOOL ENTRANCE LOBBY CURTAIN WALLING IN THERMALLY BROKEN PPC COATED ALUMINIUM FRAME, DOUBLE GLAZED UNITS WITH CONCEALED FRAME AND EXPRESSED JOINTS AS TECHNICAL GEODE MX SG OR SIMILAR APPROVED PRODUCT, REFER TO WSRM WINDOW SCHEDULE DRAWING REF 0568[9-000] SERIES FOR TYPES. |
| Z11/58
S.E SPEC | 24 HORIZONTAL FEATURE PFC CHANNEL 300mm DEEP, IN MARINE GRADE SELF-REGENERATING PLANTING OVER GROWING MEDIUM OVER FILTER SOLUTION BY DULUX OR SIMILAR S.E APPROVED PREPARATION IN ORDER TO RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR, RAL COLOUR TBC. |
| | 25 SATIN ANODIZED ALUMINIUM EXPANDED MESH CLADDING PANELS, GAP SIZES APPROX 38mmx17mmx16mm, REF 1505A BY THE EXPANDED METAL COMPANY OR SIMILAR APPROVED CONTRACTOR TO PROVIDE SAMPLE PANELS FOR APPROVAL, ALLOW FOR PERMETER TRIMS IN MATERIAL TO MATCH PANELS TO ALL PANEL EDGES, MANUFACTURER/SUPPLIER TO ADVISE ON REQUIREMENT FOR SECONDARY SUPPORT SYSTEMS AND MAX PANEL SIZES AVAILABLE TO SUIT DESIGN, TO S.E. APPROVAL. |
| S.E SPEC | 26 EXISTING PERIMETER WALL, STRUCTURAL ENGINEERS TO CONFIRM WHETHER EXISTING WALL IS TO REMAIN, ALL EXISTING REMAINING PERIMETER MASONRY WALLS TO BE REPAIRED AND PREPARED TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT. |
| S.E SPEC | 27 MAIN ENTRANCE OF PERIMETER WALL TO BE RECONSTRUCTED OR REPAIRED AND PREPARED TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR ACRYLIC INSULATED RENDER SYSTEM AS WEBER XTHERM, WITH HORIZONTAL GROOVE DETAIL APPROX 25mm WIDE, AS SHOWN, ALLOW FOR FORMING OF 2x6 SLOT OPENINGS APPROX 275mmx1800mmH, AS INDICATED IN DRAWING. |

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| NBS REF | CONSTRUCTION NOTES |
| | 28 HORIZONTAL BRISE-SOLEL SYSTEM WITH FIXED CONTINUOUS SEMIELLIPITICAL FINS IN PPC ALUMINIUM AS SUNEAL BY TECHNICAL OR SIMILAR, APPROX DIMS 228x75mm, ALLOW FOR SUPPORT STRUCTURE SPANNING BETWEEN FEATURE HORIZONTAL PFC CHANNELS TO SPECIALIST MANUFACTURER/INSTALLER REQUIREMENTS. |
| SPECIALIST | 29 ENTRANCE SLIDING GATES FOR VEHICLES AND SIDE HUNG OPENING GATES FOR PEDESTRIANS |

FOR CONSTRUCTION

rev	date	amendments

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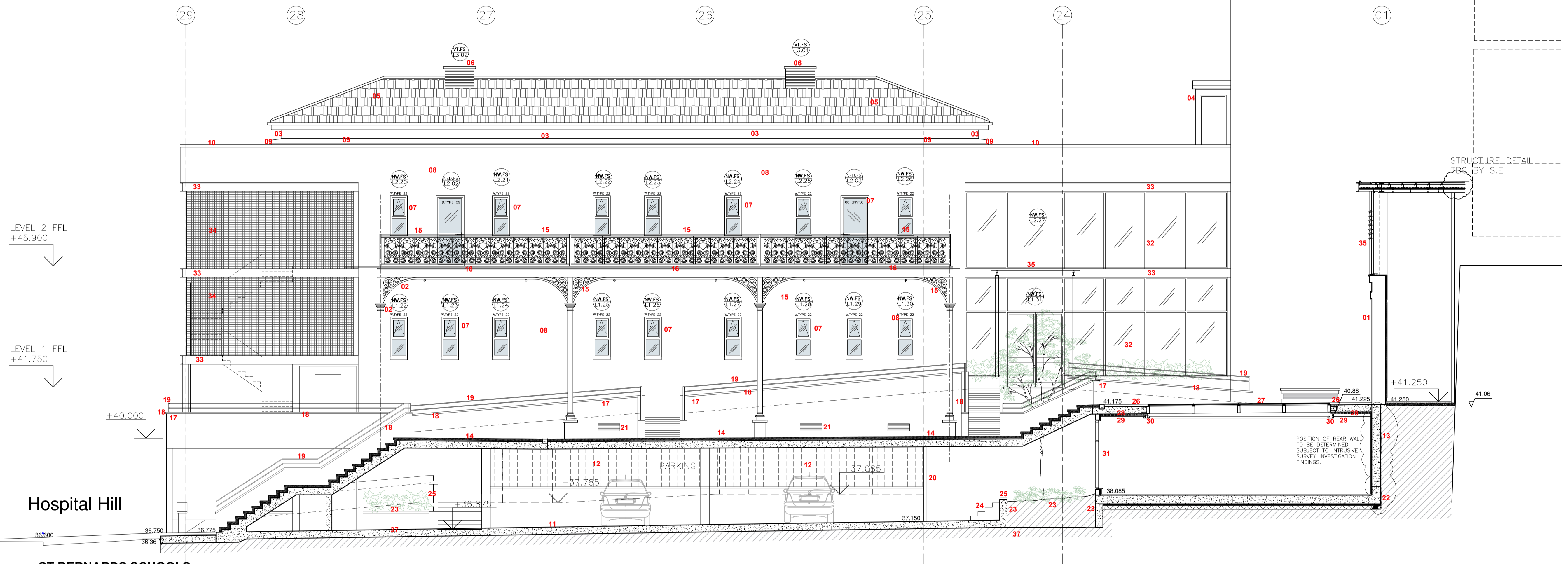
CLIENT
**GOVERNMENT OF GIBRALTAR
 DEPARTMENT OF EDUCATION**

PROJECT
ST BERNARDS SCHOOLS

DRAWING TITLE
**PROPOSED ELEVATIONS
 ELEVATION 12**

SCALE 1:75 @ A1	JOB + DRG REF No. G568[8-012]	REV X
DATE 14.04.2014		

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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 13
PROPOSED SECTION THROUGH PODIUM, CARPARKING AND DINING, SHOWING FIRST SCHOOL SOUTH ELEVATION
Scale 1:75

NBS REF	CONSTRUCTION NOTES
M20/160	01 EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.
SPECIALIST	02 ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, AS BALUSTRADE PANELS, COLUMN, WEB DETAIL, METHODS AND FINISHES TO BE APPROVED BY HERITAGE & PLANNING.
L10/650	03 ROOF VENTILATION LOUVERES TO EAVES AND GABLE VENTILATION, TO BE CONTINUOUS PPC ALUMINIUM VENTILATION LOUVER PANELS AS RENSON OR SIMILAR, TO INCLUDE INTEGRATED INSECT/VERMIN MESH.
	04 ACCESS ON TO ROOF CONSTRUCTED FROM 190mm TERMOARCOLLA BLOCK WITH RENDERED OUTSULATION AS WEBER XOTHERM OR SIMILAR APPROVED, ALLOW FOR FLAT ROOF CONSTRUCTION IN TIMBER JOISTS TO S.E DETAIL AND 180mm WBP PLY DECK WITH RIGID INSULATION TO FALLS AND HIGH PERFORMANCE POLYMER SINGLE PLY MEMBRANE WATERPROOF COVERING AS SIKKA SARNAPIL OR SIMILAR APPROVED PRODUCT, ALLOW FOR PPC ALUMINIUM LOCKABLE ACCESS DOOR WITH SOLID SPANDREL PANELS, COLOUR TO MATCH WINDOW FRAMES.
	05 EXISTING ROOF COVERING TO BE STRIPPED AND REPLACED WITH NEW PITCHED ROOF CONSTRUCTION COMPRISING OF NEW ROOF TILES AS FIBRE CEMENT TILES BY MARLEY ETERNIT SLATE BIKINDALE RANGE, ALLOW FOR 50x25mm TREATED SW TIMBER BATTENS OVER WATERPROOFING UNDERLAY AND COUNTERBATTENS OVER 180mm WBP MARINE GRADE PLYWOOD DECKING OVER LIGHT GAUGE FRAMING SPANNING BETWEEN HOT ROLLED STEEL RAFTERS TO S.E DETAIL AND SPECIFICATION, ALLOW FOR FINISHES AND OVERLAYS AS PER MANUFACTURERS RECOMMENDATIONS FOR SEVERE EXPOSURE, COLOUR AND TYPE SUBJECT TO HERITAGE AND TOWN PLANNING APPROVAL OF SAMPLES.
H61/115	06 ROOF VENTILATION TURRETS FORMED FROM LIGHT GAUGE STEEL C SECTIONS WITH PPC ALUMINIUM LOUVERED PANELS INCLUDING INTEGRATED INSECT AND VERMIN MESH, ROOF CAPPING TO BE FORMED FROM POLYMERIC FULLY ADHERED SINGLE PLY WATERPROOF MEMBRANE OVER 18mm WBP MARINE GRADE PLY OVER LIGHT GAUGE FRAMING, TO INCLUDE EDGE TRIMS AND DRIP FLASHING DETAILS.
L10/650 J42/130	07 NEW WINDOWS GENERALLY IN EXTENSION BUILDING TO BE PROPRIETARY, THERMALLY BROKEN PPC ALUMINIUM FRAMED DOUBLE GLAZED WINDOWS AS TECHNICAL SOLEAL FY OR SIMILAR APPROVED WINDOWS, REFER TO WINDOW SCHEDULES WSRM DRAWING REF G568[8-013] SERIES FOR SIZES, OPENING TYPES, PENETRATION, GLAZING TYPES, ETC.
L10/330	

NBS REF	CONSTRUCTION NOTES
F10/110 M21/210 K10/100	08 NEW EXTENSION WALLS GENERALLY TO BE CONSTRUCTED FROM 240mm CERAMIC THERMAL BLOCK AS TERMOARCOLLA OR SIMILAR, WITH EXTERNAL MECHANICALLY FIXED INSULATED RENDER SYSTEM AS WEBERXOTHERM MM OR SIMILAR APPROVED (INSULATION THICKNESS TBC BY MANUFACTURER SUBJECT TO PROOF OF ELEMENTAL 'U'VALUE TARGET), CERAMIC BLOCKS TO BE LINED INTERNALLY WITH IMPACT LINING AS 1 LAYER 15mm MEGADECO BOARD BY LAFARGE OR SIMILAR APPROVED PRODUCT OVER LIGHT-GAUGE STEEL OMEGA PROFILE FRAMING APPROX 25mm DEEP MECHANICALLY FIXED ONTO CERAMIC THERMAL BLOCK, OVERALL WALL CONSTRUCTION TO ACHIEVE AN ELEMENTAL 'U' VALUE OF 0.35W/m ² K.
	09 ALLOW FOR PREFORMED PPC ALUMINIUM COVER FLASHINGS WITH DRIP DETAIL TO TOP OF ALL EXPOSED EXISTING MASONRY WALLS, ALLOW FOR FORMING OF FILL WITH SAND/CEMENT FILLLET WITH LIQUID WATERPROOF LAC FINISH AS BLACKJACK OR SIMILAR.
	10 PARAPET WALLS WITH PPC ALUMINIUM CAPPING TO GREEN ROOF EXTENSIVE SYSTEM BUILD-UP AS ZINCO EXTENSIVE GREEN ROOF SYSTEM OR SIMILAR APPROVED, REFER TO WSRM DRAWING G568[11-001] FOR DETAILS, GREEN ROOF SYSTEM COMPRISING OF LOW MAINTENANCE SELF-REGENERATING PLANTING OVER GROWING MEDIUM OVER FILTER SHEET LAYER OVER DRAINING MAT OVER SEPARATION LAYER OVER 100mm XPS THERMAL INSULATION SHEET OVER ROOF BARRIER SHEET OVER COMPATIBLE HEAVY DUTY DPM AS SIKKA PVC MEMBRANE OR SIMILAR APPROVED COMPATIBLE WATERPROOFING MEMBRANE (GREEN ROOF EXTENSIVE SYSTEM SUBJECT TO SUPPLIERS RECOMMENDATION FOR LOCAL CLIMATE AND DGMHS RECOMMENDATIONS/APPROVAL ON COMPATIBILITY WITH LOCAL FLORA)
	11 CAR PARKING R.C SLAB TO STRUCTURAL ENGINEERS DETAIL TO RECEIVE ANTI-SLID & ANTI-SKEWCH CARPARK PROTECTIVE DRIVING SURFACE FINISH AS 2 PART EPOXY RESIN SKAFLOOR 244 WITH SKAFLOOR 156 2 PART EPOXY PRIMER, OR SIMILAR APPROVED PRODUCT, CONTRACTOR TO ENSURE APPROPRIATE FINISHING OF SLAB SUBSTRATE FOR APPROPRIATE APPLICATION OF FINISHING PRODUCT.
S.E SPEC M12/113	12 GLAZED WALL BETWEEN CAR PARK AND PEDESTRIAN WALKWAY ACCESS TO SPORTS HALL TO BE FORMED IN 2 LAYERS OF VERTICAL FULL HEIGHT U PROFILE SELF SUPPORTING GLAZED SECTIONS AS REGILT PROFILE OR SIMILAR APPROVED PRODUCT, ALLOW FOR TOP AND BOTTOM CHANNELS, CLIPS AND SEALANTS AS PER MANUFACTURERS RECOMMENDATIONS.
S.E SPEC	13 RETAINING STRUCTURE AND UNDERPINNING REQUIREMENTS TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATIONS.

NBS REF	CONSTRUCTION NOTES
S.E SPEC	14 PODIUM DECKS AND RAMPS GENERALLY IN INSITU REINFORCED CONCRETE, ALL TO STRUCTURAL ENGINEERS DETAILS AND SPECIFICATION, INCLUDING ALL MOVEMENT JOINTS, DECKS AND RAMPS TO RECEIVE SPECIALIST HIGH PERFORMANCE WATERPROOF DPM SYSTEM SUITABLE FOR MORTAR AND SLAB FINISH AS SIKKA SARNAPIL 15 77-18 WITH GEOTEXTILE LAYER OVER, TO RECEIVE MORTAR BED AND FINISH AS BRENCO LLOSA VULCANO OR SIMILAR, ALLOW FOR SPECIALIST WATERPROOFING FINISH TO INSITU R.C STAIRWAYS AND WATERPROOFING DETAIL FOR MOVEMENT JOINTS, TO LINEAR DRAINAGE SYSTEMS, GULLIES, GLAZED FLOORING.
SPECIALIST	15 EXISTING HISTORICAL FEATURE BALUSTRADING TO BE RESTORED REPAIRED TREATED AND REPAINTED TO BE REINSTALLED IN NEW FEATURE EXTERNAL WALKWAY DECK, MISSING LENGTHS OF HISTORICAL FEATURE BALUSTRADE AND COLUMNS TO BE REPLICATED IN STEEL AND RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR APPROVED METAL PAINT FINISH.
S.E SPEC	16 NEW FEATURE EXTERNAL FEATURE WALKWAY TO BE FORMED FROM STRUCTURAL SLAB TO STRUCTURAL ENGINEERS DETAIL, FINISHED WITH REEDED ROKO HARDWOOD DECKING AND UNDERDRAWN WITH SMOOTH ROKO HARDWOOD SARKING SUBJECT TO ARCHITECT APPROVAL OF SAMPLE.
M20/160	17 PARAPET WALLS GENERALLY TO BE CONSTRUCTED IN HOLLOW CONCRETE BLOCK APPROX 600mm HIGH WITH BALUSTRADING OVER TO A MIN HEIGHT OF 1150mm ABOVE FFL WITH CONCRETE INFILL AND STEEL ROD REINFORCEMENT ABOVE TO STRUCTURAL ENGINEERS DETAIL, TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR RENDER AS WEBER OR SIMILAR APPROVED PRODUCT, ALLOW FOR PROPRIETARY RENDER STOP BEADS.
Z11/58	18 ALL PARAPET WALLS TO BE CAPPED WITH APPROX 40mm THICK RECONSTITUTED STONE TILE COPING.
Z11/58	19 ALLOW FOR APPROX 500mm HIGH BALUSTRADING OVER PARAPET WALLS FORMED FROM MARINE GRADE SELF FINISHED GLAZANIZED STEEL FLAT BARS TO BS EN ISO 1461: 1998, HORIZONTAL SECTIONS FORMED FROM 40x15mm FLAT BARS WITH VERTICALS IN 40x40mm SHS, ALLOW FOR WELDED BASEPLATE TO VERTICAL POSTS FOR FIXING ONTO TOP OF PARAPET WALL BELOW LINE OF CAPPING FOR CONCEALED FIXING, ALLOW FOR CUTTING OF CAPPING SLABS AROUND POSTS.
Z11/58	20 SCREEN BETWEEN CAR PARKING AND OPEN PLANTED AREA TO BE FORMED FROM MARINE GRADE SELF FINISHED GLAZANIZED STEEL FLAT BARS AND SQUARE HOLLOW SECTIONS TO BS EN ISO 1461: 1998, 40x40mm SHS UPRIGHTS AND 40x15mm FLAT BARS, FORMING SCREEN AS DETAIL, ALLOW FOR INTEGRATED LOCKABLE GATE IN MATCHING DESIGN FOR MAINTENANCE ACCESS.
M&E SPEC	21 ALLOW FOR NATURAL VENT FLUE DUCTS TO MAKE SPECIFICATION WITHIN RAMP VOID TO ENABLE ADDITIONAL FREE VENTILATION TO CAR PARKING SPACE BELOW, ALLOW FOR MARINE GRADE SELF FINISHED GALVANIZED STEEL GRATING WITH INSECT/VERMIN MESH BACKING TO SUIT FLUE DUCT SIZE OPENING.

NBS REF	CONSTRUCTION NOTES
S.E SPEC	22 UNDERPINNING STRUCTURE TO STRUCTURAL ENGINEERS DETAILS, PVC HOMOGENEOUS WATERPROOF TANKING SYSTEM OVER UNDERPINNING WALL AS PER SPECIALIST INSTALLER DETAIL RECOMMENDATIONS, REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR EXTENT OF UNDERPINNING.
S.E SPEC LANDSCAPING	23 PLANTER FORMED FROM STEEL REINFORCED INSITU CONCRETE TO STRUCTURAL ENGINEERS DETAILS, PLANTERS VERTICAL FACES TO BE LINED INTERNALLY WITH BITUMINOUS DPM, TO BE ROOF RESISTANT, UV RESISTANT AND PHOSPHATE RESISTANT, PLANTING MEDIUM, TREE SPECIES AND PLANT TYPES TBC AS PER SPECIALIST LANDSCAPING SCHEDULE.
Q24/110	24 ALLOW FOR STEPPED ACCESS FOR MAINTENANCE IN INSITU CONCRETE TO S.E DETAILS, WITH TREADS AND RISERS IN EXTERNAL QUALITY RECONSTITUTED STONE PAVORS AS BRENCO LLOSA VULCANO OR SIMILAR APPROVED PRODUCT.
Q24/110	25 ALLOW FOR CAPPING TO PLANTER WALLS IN EXTERNAL QUALITY RECONSTITUTED STONE PAVORS AS BRENCO LLOSA VULCANO OR SIMILAR APPROVED PRODUCT.
L10/460 S.E SPEC	26 PODIUM AREA OVER DINING SPACE TO BE FORMED IN INSITU REINFORCED CONCRETE WITH HIGH PERFORMANCE DPM OVER, WITH EMBEDDED CLASS 1 AGGREGATE READY TO TAKE 75mm DEEP SCREED, SMOOTH SELF FINISH FOR NON-SLIP SURFACE, ALLOW FOR FEATURE EMBEDDED FLUSH GRADE 316 STAINLESS STEEL 20mm WIDE INSERTS LAID ORTHOGONALLY.
L10/460 S.E SPEC	27 WALK-ON GLAZED ROOF SKYLIGHT SYSTEM AS VITAL SKYVISION WALK-ON ROOFLIGHT OR SIMILAR APPROVED SYSTEM, WITH 50mm SPECIALIST 3 LAYER GLASS TESTED FOR A LOAD UP TO 500KG PER M ² , ALLOW FOR SILK PRINT TO EXTERNAL FACE FIT FOR PURPOSE FOR A NON-SLIP FINISH AND MODESTY SCREENING, ALLOW FOR HOT ROLLED RHS FRAMING FOR SKYLIGHT SECTIONS, TO S.E DETAIL.
	28 PODIUM DECK OVER DINING SPACE TO BE UNDERDRAWN WITH 75mm RIGID THERMOSET INSULATION SOFFIT BOARD AS KINGSPAN KOOLTHERM K10 SOFFIT BOARD INSULATION FOR STRUCTURAL SOFFITS, ZERO ODP, CLASS 0, NON-DELETERIOUS, WITH INTEGRATED VAPOUR BARRIER (TO WARM SIDE OF BOARD), MECHANICALLY FIXED TO STRUCTURAL SOFFIT, JOINTS TAPED WITH FOIL TAPE, ALL AS PER MANUFACTURERS DETAIL INSTRUCTIONS AND RECOMMENDATIONS.
K10/---	29 CEILING IN 12.5mm MOISTURE RESISTANT PLASTERBOARD LINING, TAPED AND JOINTED, TO RECEIVE MOISTURE RESISTANT PAINT FINISH.
	30 ALLOW FOR RECESS PLASTERBOARD DETAIL TO TAKE CONCEALED STRIP LED LIGHTING TO PERIMETER OF PLASTERBOARD CEILING OPENING.
	31 CURTAIN WALLING TO DINING AREA IN THERMALLY BROKEN PPC COATED ALUMINIUM FRAME, DOUBLE GLAZED UNITS AS TECHNICAL GEODE VEE CURTAIN WALLING SYSTEM OR SIMILAR APPROVED, REFER TO WSRM WINDOW SCHEDULE DRAWING REF G568[8-013] SERIES FOR TYPES.

NBS REF	CONSTRUCTION NOTES
Z11/58 S.E SPEC	32 ENTRANCE LOBBY CURTAIN WALLING IN THERMALLY BROKEN PPC COATED ALUMINIUM FRAME, DOUBLE GLAZED UNITS WITH CONCEALED FRAME AND EXPRESSED JOINTS AS TECHNICAL GEODE MX SO OR SIMILAR APPROVED PRODUCT, REFER TO WSRM WINDOW SCHEDULE DRAWING REF G568[8-013] SERIES FOR TYPES.
Z11/58 S.E SPEC	33 HORIZONTAL FEATURE PPC CHANNEL 300mm DEEP, IN MARINE GRADE GALVANIZED STEEL, PREPARED WITH CHEMICAL ETCHING MORDANT SOLUTION BY DULUX OR SIMILAR S.E APPROVED PREPARATION IN ORDER TO RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR, RAL COLOUR TBC.
	34 SATIN ANODIZED ALUMINIUM EXPANDED MESH GLAZING PANELS, GAP SIZES APPROX. 30mmx17mm, REF 1592A BY THE EXPANDED METAL COMPANY OR SIMILAR APPROVED PRODUCT, CONTRACTOR TO PROVIDE SAMPLE PANELS FOR APPROVAL, ALLOW FOR PERIMETER TRIMS IN MATERIAL TO MATCH PANELS TO ALL PANEL EDGES, MANUFACTURER/SUPPLIER TO ADVISE ON REQUIREMENT FOR SECONDARY SUPPORT SYSTEMS AND MAX PANEL SIZES AVAILABLE TO SUIT DESIGN, TO S.E APPROVAL.
Z11/58 S.E SPEC	35 CURTAIN WALLING TO UPPER SECTION OF MIDDLE SCHOOL MAIN ENTRANCE LOBBY TO BE THERMALLY BROKEN PPC COATED ALUMINIUM FRAME, DOUBLE GLAZED UNITS WITH CONCEALED FRAME AND EXPRESSED JOINTS EXTERNALLY AS TECHNICAL GEODE MX SO OR SIMILAR APPROVED PRODUCT, REFER TO WSRM WINDOW SCHEDULE DRAWING REF G568[8-013] SERIES FOR TYPES.
M&E SPEC LANDSCAPING	36 GLAZED ENTRANCE CANOPY BY SPECIALIST, ALLOW FOR STRUCTURAL SUPPORTS AND SUPPORT FRAMING TO S.E DETAIL, TO BE IN MARINE GRADE GALVANIZED STEEL, PREPARED WITH CHEMICAL ETCHING MORDANT SOLUTION BY DULUX OR SIMILAR S.E APPROVED PREPARATION IN ORDER TO RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR, RAL COLOUR TBC.
	37 ALLOW FOR DRAINAGE TO PLANTERS TO MAKE DESIGN IN CONSULTATION WITH LANDSCAPING SPECIALIST RECOMMENDATIONS.

FOR CONSTRUCTION

rev | date | amendments

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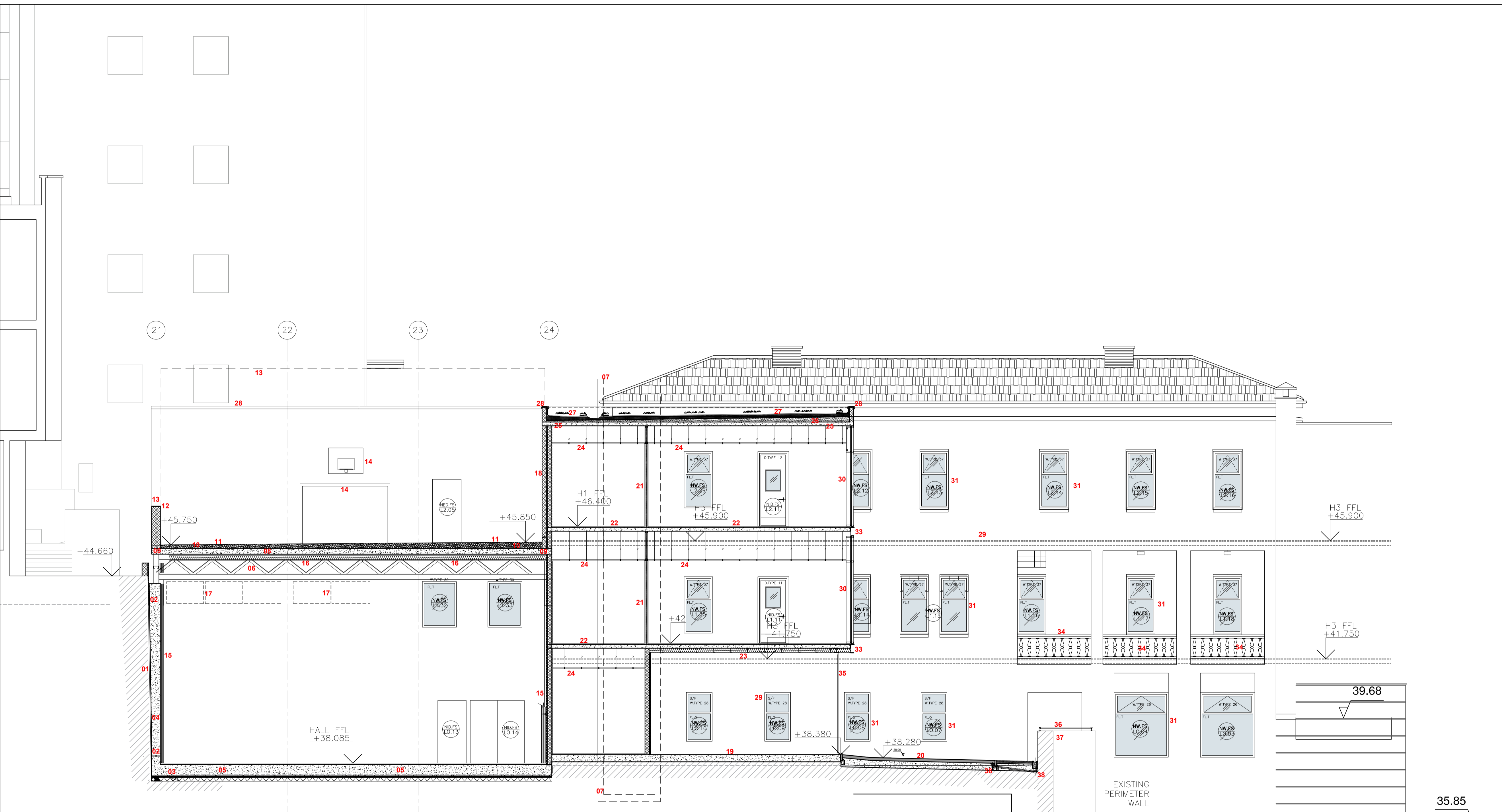
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DEPARTMENT OF EDUCATION**

PROJECT
ST BERNARDS SCHOOLS

DRAWING TITLE
**PROPOSED ELEVATIONS
SECTIONAL ELEVATION 13**

SCALE 1:75@A1	JOB + DRG REF No. G568[8-013]_SK-13-75	REV X
DATE 14.04.2014		

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ST BERNARDS SCHOOLS
SECTIONAL ELEVATION 14
PROPOSED SECTION THROUGH SPORTS HALL AND FIRST SCHOOL SHOWING NORTH ELEVATION OF H3
Scale 1:75

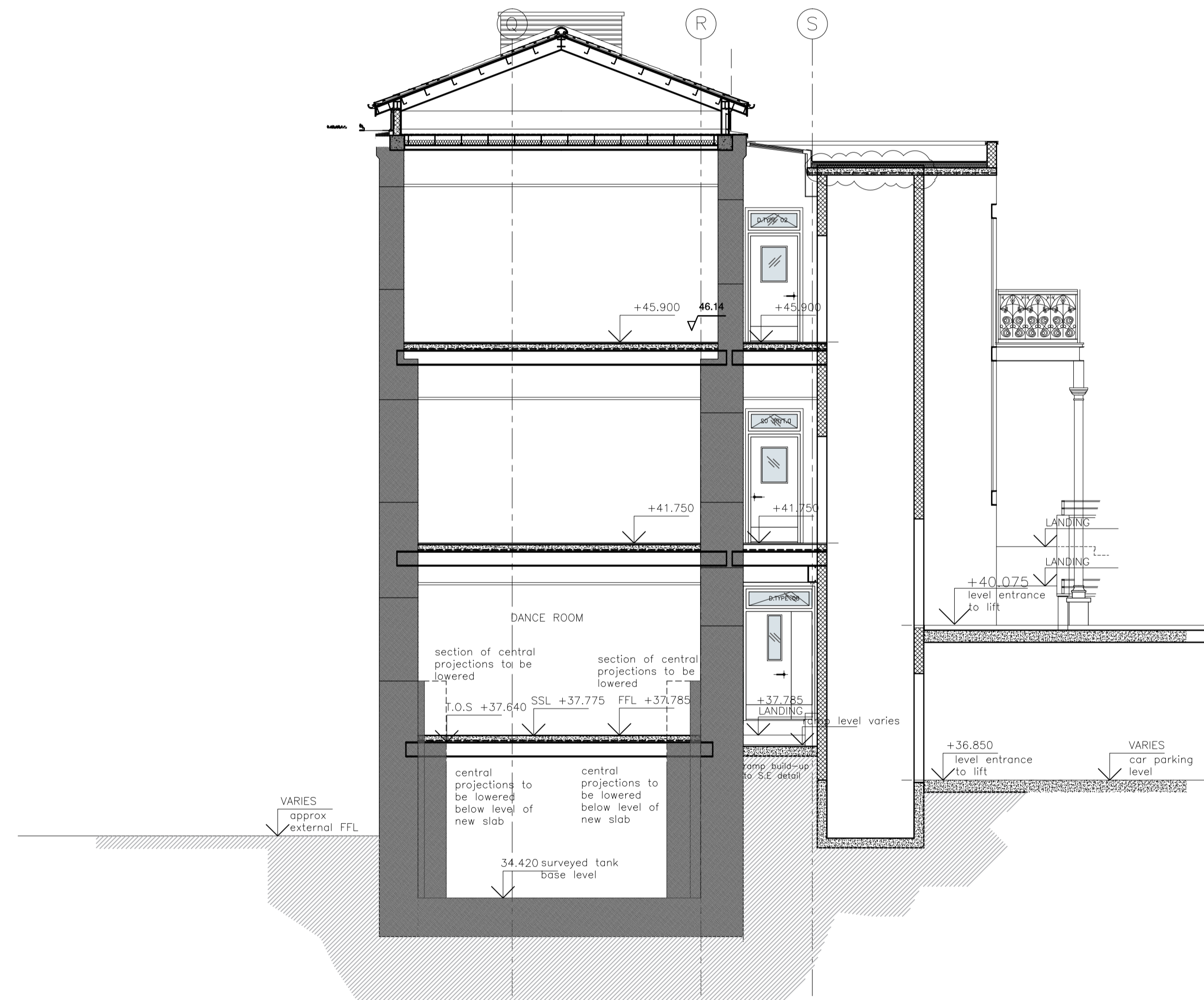
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| <p>NBS REF CONSTRUCTION NOTES</p> <p>SPECIALIST 01 EXCAVATED FACE TO RECEIVE SACRIFICIAL SHUTTERING AS 11mm OSB BOARDING TO LARGE VOID AREAS IN ORDER TO ACCEPT PVC HOMOGENEOUS WATERPROOF TANKING MEMBRANE SYSTEM BY SPECIALIST SUBCONTRACTOR AS SIKAPLAN OR SIMILAR TANKING SYSTEM. ALL BY SPECIALIST INSTALLER. EXISTING WALL FACE AT HIGH LEVEL TO BE PREPARED TO RECEIVE WATERPROOF TANKING MEMBRANE SYSTEM. REQUIREMENT FOR GEOTEXTILE PROTECTION LAYER AND PREPARATION OF SUBSTRATES ALL AS PER SPECIALIST SUPPLIER/INSTALLER DETAIL RECOMMENDATIONS.</p> <p>SPECIALIST 02 PVC HOMOGENEOUS WATERPROOF TANKING MEMBRANE SYSTEM BY SPECIALIST TO BE TAKEN UP FULL LENGTH OF EXISTING WALL CONTINUING UP AND SEALED OVER NEWLY FORMED LOW BLOCKWORK WALL APPROX 450mm HIGH.</p> <p>SPECIALIST 03 PVC HOMOGENEOUS WATERPROOF TANKING MEMBRANE SYSTEM TO EXTEND MINIMUM 1.5m BELOW SLAB, TO BE LAPPED BONDED AND SEALED WITH CONTINUOUS 1200 GAUGE DPM, ALL AS PER SPECIALIST INSTALLER DETAIL RECOMMENDATIONS, ENSURING COMPATIBILITY WITH MEMBRANES.</p> <p>S.E. SPEC 04 RETAINING WALL STRUCTURE TO STRUCTURAL ENGINEERS DETAILS CAST UP AGAINST PVC HOMOGENEOUS WATERPROOF TANKING SYSTEM OVER EXCAVATED WALL AS PER SPECIALIST INSTALLER DETAIL RECOMMENDATIONS. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR EXTENT OF RETAINING WALL.</p> <p>S.E. SPEC 05 R.C. SLAB TO STRUCTURAL ENGINEERS DETAIL TO RECEIVE POWER FLOATED FINISH IN ORDER TO RECEIVE SPORTS HALL INTERNAL FLOOR FINISH.</p> <p>S.E. SPEC 06 LATTICE ORDER TO STRUCTURAL ENGINEERS DETAILS TO RECEIVE SMOOTH SPRAY APPLIED INTUMESCENT PAINT FINISH, COLOUR TBC.</p> <p>S.E. SPEC 07 LIFT SHAFT DIMENSIONS INCLUDING PIT AND HEIGHT OVER LAST LEVEL FFL TO BE CONFIRMED BY LIFT MANUFACTURERS/SUPPLIERS</p> <p>S.E. SPEC 08 ROOF SLAB SPANNING OVER LATTICE GIRDERS TO STRUCTURAL ENGINEERS DETAILS.</p> <p>SPECIALIST 09 CONTINUOUS DPM TO BE TAKEN UP SIDES TO TOP OF SCREED LEVEL. IN JUNCTIONS WITH CAVITY WALLS, DPM TO BE TAKEN UP INTERNAL FACE OF EXTERNAL LEAF, TUCKED AND SEALED WITH DPC AT MINIMUM 150mm ABOVE EXTERNAL FFL.</p> <p>S.E. SPEC SPECIALIST 10 STEEL REINFORCED FLOATING SCREED TO S.E. DETAIL WITH 125mm MINIMUM DEPTH TO ACCOMMODATE 25mm OPEN CHANNEL FALLS IN SLOPE TOWARDS OPEN CHANNEL DRAINAGE. ALLOW FOR NOMINAL FALLS WITHIN OPEN DRAINAGE CHANNEL TOWARDS OUTLET POSITIONS. ALLOW FOR TROWEL FINISH TO SCREED IN PREPARATION FOR SPECIALIST OUTDOOR SPORTS FLOORING FINISH.</p> | <p>NBS REF CONSTRUCTION NOTES</p> <p>S.E. SPEC SPECIALIST 10 STEEL REINFORCED FLOATING SCREED TO S.E. DETAIL WITH 125mm MINIMUM DEPTH TO ACCOMMODATE 25mm OPEN CHANNEL FALLS IN SLOPE TOWARDS OPEN CHANNEL DRAINAGE. ALLOW FOR NOMINAL FALLS WITHIN OPEN DRAINAGE CHANNEL TOWARDS OUTLET POSITIONS. ALLOW FOR TROWEL FINISH TO SCREED IN PREPARATION FOR SPECIALIST OUTDOOR SPORTS FLOORING FINISH.</p> <p>M12/114 11 SPECIALIST OUTDOOR SPORTS FLOORING FINISH APPLIED DIRECTLY ONTO SCREED. FINISH TO BE TAKEN UP AND SEALED INTO PERIMETER WALLS MINIMUM 150mm ABOVE FFL.</p> <p>S.E. SPEC 12 LOW LEVEL PERIMETER WALL TO EAST APPROX 1250mm HIGH, IN HOLLOW CONCRETE BLOCK WITH STIFFENING RODS TO S.E. DETAIL. ALLOW FOR POCKETS TO TOP OF WALL TO TAKE POSTS FOR PERIMETER FENCING SYSTEM TO SPORTS PITCH.</p> <p>GSLA 13 PERIMETER POSTS AND FENCING SYSTEM, INCLUDING SAFETY NETTING OVER, AS PER GSLA RECOMMENDATIONS. SYSTEM TO BE APPROPRIATE FOR LOW LEVEL NOISE/REVERBERATION WITH LARGE DIAMETER BALL IMPACT. GSLA TO CONFIRM HEIGHT OF FENCING/NETTING, WITH CONSIDERATION TO NEARBY WINDOW HEIGHT POSITIONS.</p> <p>GSLA 14 SPORTS EQUIPMENT TO BE FIT FOR EXTERNAL USE IN HARSH ENVIRONMENTS, TYPE/QUANTITY TO BE CONFIRMED BY END USERS AND GSLA.</p> <p>K11/-- 15 SPORTS HALL WALLS TO BE LINED INTERNALLY WITH HIGH PRESSURE LAMINATED PANELS AS TRESPA METRON FR (FIRE RETARDANT GRADE) SYSTEM WITH CONCEALED FININGS. FIXING SYSTEM TO BOTTOM SECTION APPROX 2.5M HIGH, TO BE SUITABLE FOR INDOOR SPORTS AND IMPACT WITH LARGE DIAMETER BALLS. ALLOW FOR APPROX 1.5% OF WALL PANELS AT HIGH LEVEL TO BE PERFORATED WITH FIRE RATED BLACK ACOUSTIC FELT AND COMPRESSED 150mm NON-COMBUSTIBLE ACOUSTIC MINERAL WOOL BEHIND AS ISOWOOL OR SIMILAR. ALLOW FOR CONTINUOUS 50mm ACOUSTIC INSULATION LAYER AS ISOWOOL OR SIMILAR TO SEPARATING WALL WITH SCHOOL.</p> <p>K10/103 16 ROOFTOP SPORTS PITCH SLAB TO BE UNDERDRAWN WITH ACOUSTIC PLASTERBOARD MF SUSPENDED CEILING SYSTEM AS GYPROC GYPTONE LINE 6, 13% PERFORATION AND ACOUSTIC TISSUE, WITH 150mm NON-COMBUSTIBLE MINERAL WOOL INSULATION AS ISOWOOL OR SIMILAR. ALLOW FOR HIGH LEVEL PPC COATED ALUMINIUM FRAMED VENTILATION LOUVERS TO HALL'S SOUTH ELEVATION FOR MECHANICALLY ASSISTED CROSS VENTILATION AND EXTRACTION SYSTEM TO MAKE DESIGN. ALLOW FOR VERTICAL DUCTS CUT INTO EXISTING REMAINING WALL AGAINST LIFT SHAFT WALL FOR EXTRACTION CUT TO OPEN AIR. ALLOW FOR WEATHERPROOF LOUVERED TERMINALS IN PPC COATED ALUMINIUM, COLOUR TBC. SIZES, NUMBERS OF EXTRACTION DUCTS TO MAKE DESIGN AND SPECIFICATION.</p> <p>M&E SPEC 17</p> | <p>NBS REF CONSTRUCTION NOTES</p> <p>S.E. SPEC 18 EXTERNAL WALL CONSTRUCTED FROM 140mm INTERNAL DENSE CONCRETE BLOCK WITH 60mm CAVITY AND 140mm EXTERNAL DENSE CONCRETE BLOCK, 60mm FULL FILL Batts INSULATION. CAVITY WALL EXTERNALLY TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AS AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT. NBS REF M20/160. REFER TO GENERAL ARRANGEMENT PLANS FOR INTERNAL WALL FINISHES/LININGS.</p> <p>S.E. SPEC SPECIALIST 19 NEW R.C. SLAB IN COVERED PLAY AREA TO STRUCTURAL ENGINEERS DETAILS OVER REDUCED LEVELS TO S.E. REQUIREMENTS, HARDWARE, BLINDING AND CONTINUOUS DPM, TO RECEIVE POWERFLOATED FINISH AND SPECIALIST RESIN FINISH WITH RUBBER SHOCKPAD BUILDUP AS SIKA REGUPOUR OR SIMILAR.</p> <p>GSLA Q24/110 20 AREA OUTSIDE COVERED PLAY ZONE TO BE 100mm DEEP RUBBER CRUMB SAFETY FLOORING, ALL OTHER EXTERNAL AREAS TO RECEIVE EXTERNAL CONCRETE TILES AS LLOSA VULCANO OR SIMILAR. REFER TO GENERAL ARRANGEMENT PLANS FOR FLOOR FINISHES (556[S-000]) SERIES DRAWINGS.</p> <p>S.E. SPEC 21 INTERNAL PARTITIONS IN LIGHT GAUGE STEEL STUDS - REFER TO GENERAL ARRANGEMENT PLANS (556[S-000]) SERIES DRAWINGS FOR LINKING TYPES AND INFILL SOUND INSULATION. ALLOW FOR DEFLECTION HEAD DETAILS TO ALL LIGHT GAUGE STEEL STUD PARTITIONS.</p> <p>S.E. SPEC 22 NEW STRUCTURAL SEPARATING FLOORS TO REPLACE EXISTING TIMBER FLOOR CONSTRUCTION, AS STRUCTURAL ENGINEERS DETAILS, COMPRISING OF COMPOSITE DECK AS COMFLOR OR SIMILAR OVER STEEL JOISTS TO S.E. DETAIL, WITH 10mm IMPACT SOUND ACOUSTIC LAYER AS ETHAFON, WITH 20mm 1+2 BOARDING AND HEAVY DUTY RESIN FLOORING FINISH. SEPARATING FLOORS TO BE UNDERLINED WITH SUSPENDED EXPOSED GRID AND TILE CEILING SYSTEM GENERALLY UNLESS OTHERWISE SPECIFIED. SEPARATING FLOOR BUILD-UP TO ACHIEVE A PERFORMANCE R_w RANGE LEVEL OF 55-60 (dB) SEPARATING FLOOR BUILD-UP TO ACHIEVE A MINIMUM FIRE RATING OF 60MIN. ALLOW FOR SERVICES PENETRATIONS AND FIRE DAMPERS/COLLARS.</p> <p>K40/-- 23 UNDERSIDE OF FLOOR SLAB TO BE UNDERDRAWN WITH EXTERNAL RENDER BASE BOARD AS LAPROSE GTC RENDERBOARD OR BULCAD OR SIMILAR CEMENTITIOUS CALCIUM SILICATE RENDER BASE BOARD FIXED THROUGH TO LIGHT GAUGE STEEL FRAMING, CENTRES AND FININGS TO BOARD MANUFACTURERS DETAIL RECOMMENDATIONS, WITH 150mm MINERAL WOOL INSULATION INFILL AS ISOWOOL OR SIMILAR TO ACHIEVE TARGET ELEMENTAL VALUE OF 0.25w/m²K. RENDER BASE BOARD TO TAKE THROUGH COLOUR ACRYLIC RENDER FINISH WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.</p> <p>S.E. SPEC 24 SUSPENDED EXPOSED GRID AND TILE MF CEILING SYSTEM. REFER TO REFLECTED CEILING LAYOUTS G568[6-000] SERIES DRAWINGS FOR CEILING TYPES.</p> | <p>NBS REF CONSTRUCTION NOTES</p> <p>S.E. SPEC 25 ROOF SLAB TO STRUCTURAL ENGINEERS DETAIL TO TAKE 1200 GAUGE DPM TAKEN UP SIDES TO TOP OF INTERNAL FACE OF PARAPET WALL.</p> <p>S.E. SPEC 26 SCREED TO FALLS AS PER STRUCTURAL ENGINEERS SPECIFICATION</p> <p>M20/160 27 GREEN ROOF EXTENSIVE SYSTEM BUILD-UP AS ZINCO EXTENSIVE GREEN ROOF SYSTEM OR SIMILAR APPROVED, COMPRISING OF LOW MAINTENANCE SELF-REGENERATING PLANTING OVER GROWING MEDIUM OVER FILTER SHEET LAYER OVER DRAINING MAT OVER SEPARATION LAYER OVER 100mm XPS THERMAL INSULATION SHEET OVER ROOT MEMBRANE OR SIMILAR APPROVED COMPATIBLE WATERPROOFING MEMBRANE. (GREEN ROOF EXTENSIVE SYSTEM SUBJECT TO SUPPLIERS RECOMMENDATION FOR LOCAL CLIMATE AND GONHS RECOMMENDATIONS/APPROVAL ON COMPATIBILITY WITH LOCAL FLORA)</p> <p>M20/160 28 PARAPET CAPPING PIECE FORMED FROM PREFORMED PPC ALUMINA TO PROFILE INCLUDING FIXING CLIPS FOR CONCEALED FIXING.</p> <p>H11/110 29 EXISTING EXTERNAL MASONRY WALLS GENERALLY (THAT ARE TO REMAIN AS EXTERNAL), TO BE RUBBED DOWN, ANY DEFECTIVE/LOOSE PLASTER TO BE HACKED OFF AND REPAIRED, PREPARED TO RECEIVE A BONDING PRIMER AGENT IN ORDER TO TAKE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.</p> <p>L10/340 30 PROPRIETARY, THERMALLY BROKEN ALUMINIUM CURTAIN WALLING TILT & TURN AND FIXED PANE DOUBLE GLAZED WINDOWS BY TECHNICAL REF M6 VISIBLE GRID OR SIMILAR APPROVED SYSTEM, WITH VERTICALLY EXPRESSED EXTERNAL MULLIONS. ALLOW FOR GLAZED INSULATED SPANDREL PANEL SECTIONS AT HIGH LEVEL.</p> <p>S.E. SPEC Z11/58 31 EXISTING EXTERNAL, THERMALLY BROKEN ALUMINIUM CLAD TIMBER FRAME WINDOWS AS MARVIN CLAD WOOD ULTIMATE OR SIMILAR APPROVED TOP HUNG, SASH AND FIXED PANE WINDOWS.</p> <p>M61/110 32 EXISTING LINK PASSAGE</p> <p>S.E. SPEC 33 HORIZONTAL FEATURE PPC CHANNEL 300mm DEEP, IN MARINE GRADE GALVANIZED STEEL, PREPARED WITH CHEMICAL ETCHING MORDANT SOLUTION BY DULUX OR SIMILAR IN ORDER TO RECEIVE HIGH PERFORMANCE METAL PAINT FINISH AS HAMMERITE OR SIMILAR, RAL COLOUR TBC.</p> <p>S.E. SPEC 34 ALLOW FOR SPECIALIST REPAIR AND REFURBISHMENT OF RETAINED HERITAGE FEATURES, METHODS AND FINISHES TO BE APPROVED BY HERITAGE AND PLANNING DEPARTMENT.</p> <p>S.E. SPEC 35 GLAZED FOLDING SLIDING SCREEN DOUBLE GLAZED WITH PPC ALUMINIUM THERMALLY BROKEN FRAMES AS TECHNICAL PPM FOLDING DOOR SYSTEM OR SIMILAR. STRUCTURAL ENGINEERS TO ALLOW FOR HEAD RAIL FIXING OF SUSPENDED FOLDING DOORS. ALLOW FOR BOTTOM SUNKEN EMBEDDED THRESHOLD & GUIDE, FIT FOR SEVERE WEATHER CONDITIONS.</p> | <p>NBS REF CONSTRUCTION NOTES</p> <p>Z11/58 36 MARINE GRADE GALVANIZED STEEL HANDRAIL TO MAKE UP MINIMUM HEIGHT FROM FFL AT 1200mm.</p> <p>S.E. SPEC 37 EXISTING PERIMETER WALL. STRUCTURAL ENGINEERS TO CONFIRM WHETHER EXISTING WALL IS TO REMAIN. ALL EXISTING REMAINING PERIMETER MASONRY WALLS TO BE REPAIRED AND PREPARED TO RECEIVE HIGH PERFORMANCE THROUGH COLOUR ACRYLIC RENDER WITH HIGH POLYMER CONTENT BASECOAT AND ALKALI-RESISTANT MESH REINFORCEMENT AS WEBER OR SIMILAR APPROVED PRODUCT.</p> <p>M&E SPEC 38 ALLOW FOR SLAB LEVEL GULLEY WITH FINE GAUGE FIBRE MESH TO PROVIDE FREE DRAINAGE BELOW RUBBER CRUMB FINISH, CONNECTED TO EXISTING DRAINAGE.</p> |
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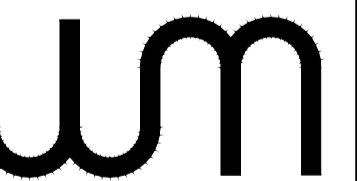
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