B1.3.11 B1.3.10 B1.3.6 B1.3.4 B1.2.1 B1.1 B1.3.9 B1.3.8 B1.3.7 B1.3.2 B1.2.8 B1.2.3 B1.2 B1.3 B1.2.7 B1.2.6 B1.2.5 MASONRY 1st Bed joint for brickwalls on foundation may vary between 5mm (Where thicker bed joints would result, bricks shall be cut to suit to B1.3.4.2 Movement joints For non-load-bearing brickwork, allow 15mm soft joint (jointex or similar approved) between concrete members, such as beam/slab soffits, and top of walls. Allow 10mm soft joint (jointex or similar approved) to vertical joints between concrete columns and walls, and all other concrete-to-brick interfaces. This vertical joint also applies to all articulation-(AJ) and or brick joint (BJ) positions. These joints to continue through plaster finishes. B1.3.4.1 B1.3.2.3 Brickforce to be placed in each brick course layer from top of window concrete ring-beam/slab soffit level. Plaster work to walls at all door & window/ventilation openings to be reinforced with chicken mesh as shown below (NOTE: detail not to be provided at/across articulation joint (AJ) positions): All precast lintols to be provided strictly in accordance lintols to be propped during brickwork over, and to rer B1.3.2.7 All ties to be em B1.3.2.6 Cavities that are 75 - 150mm in width, shall receive twist type ties at 1 tie/500mm2. B1.3.2.4 All brickforce to be discontinious at art B1.3.2.2 Provide 2x5.6 rod reinforcement (hard-drawn wire) immediately in first course below all window/ventilation openings and brickforce in each layers for minimum 6 course above all door openings. Brickforce and reinforcement to extend minimum 600mm past the openings into masonry on either side. All brickwork to be reinforced as follow (also refer to typical details drawings): B1.3.2.1 Brickforce to be placed in every brick course layer above foundations up to 3 layers surface bed level. Thereafter every 4th course layer in all brick walls. Concrete bricks and blocks shall be laid dry. All brick walls to be built on strip foundations, Execution of Works Clay bricks shall be well-saturated 2 hours before being built in. Compressive strength Material Specif Balvanised hoop iron anchors shall be installed in every fourth course between RC/steel columns and brick walls and across all articulation- & brick joints. 6mm Nail plugs to be used, no shot fixing is allowed. Shot fixing only allowed for connection to steel elements. _oad-bearing bricks / blocks foundation walls, retaining walls, all structural masonry, et cetera) ickwork on suspended concrete slabs to be built only when:Concrete slab has reached its required design compressiveAll supportwork and props have been removed. clay bricks shall be laid within 6 we ater absorption of clay bricks shall not exceed 12%. m silicate bricks shall be laid slightly able Codes and Standards ut of brick Slip Joints The top of all load-bearing brickwork to be plastered smooth with 3:1 cement mortar. Two layers of Malthoid 3 Ply with 0.58mm thick galvanised plate (U.N.O) between to be placed on walls prior to casting of concrete. Joints to be sealed in use (1:4 Mix D idded to a depth of >50mm in the mortar joint of each skin. slabs, no brich 2.8mm 485 MPa 400mm tion (AJ)- and brick joints (BJ). vork to be 4 cations. Precast priod of 7 days. S1.4.4 S1.2.5 S1.1 S1.4.2 S1.4.1 S1.4 S1.3.5 S1.3.4 S1.3.1 S1.3 S1.2.4 S1.2.3 S1.2.1 S1.2 STRUCTURAL STEEL S1.2.5.1 \$1.2.2.1 \$1.2.2.2 \$1.2.1.1 \$1.2.1.2 Connection details to be approved by the Engi Contractor to generate detail shop drawings. These shall be least 10 working days before the scheduled fabrication date. Applicable Codes The Contractor is to submit, in writing, his proposed erection method statement for the commen the Engineer. Compliance with this requirement will in no way absolve him from his responsibility or some the final product in accordance with the Engineers' design drawings. orkshop Dr Bolted connections to not punched. Bolt holes to be drilled, not punched. Allow 25mm slotted holes for steel mer All bolts to be Grade 8 All bolts to be hot-dip g All hot rolled: Drilled holes for bolted connection Drilled holes for base plates to be All truss and girder members to be welded all round both sides. Allow for gusset plate ensure adequate welding length to develop full tensile capacity of members. The Contractor shall produce evidence acceptable to the Engineer that welding proceand welders have been tested in accordance with the requirements of SABS 044: PaIV. No site cutting or welding will be allo Shop and site welds shall be tested as part of the contractor's quality ass least 15% of all site welds shall be submitted to non-destructive testing. Use Class E7018 electrodes for All welds to be continuous fillet welds (unless shown off less than 0.7x the thinner material thickness welded to. Anchor bolt and cast-in plate layout and not shown on the Engir and Standards cing to be to be ctions to be 2mi .≥ edures art III & es to ss not S171 S1.6.4 S1.6.3 S1.6.2 S1.6.1 \$1.5.1.4 \$1.5.1.5 \$1.5.1.6 \$1.5.1.7 xing to purlins are to be done by screwing or bolting through the vertical leg (web) of the purlin. Purlin clamps shall not be allowed anywhere. No hanging of services from purlins are allowed until roof sheeting is installed. No fixing to longitudinal ties S1.5.2.9 S1.5.2.6 S1.5.2.5 S1.5.2.4 S1.5.1 S1.4.12 S1.4.11 S1 4 10 Cladding to be done to SABS 1200 HB as well as ng of Servic Abrasive sweep blast all steel to achieve a blast profile of 20-30µm. (Sweep blasting shall only be waived where the Contractor motivates this adequately ar where the Engineer agrees to this in writing.) Alternative Step 1 (when agreed to in writing by the Engineer): Apply Plascon Galvanized Iron Cleaner (GIC 1) by brush, broom or spray. Allow to reac 1 minute. Rinse off with tap water using "Scotch Brite" pads to remove all surface contaminants. Check if surface is water-break free. If not, repeat process. Allow to completely dry. S1.5.1.1 S1.5.1.2 Pri Plate girders: If painting is required, it shall be done off-site. If off-site painting is not possible or if on-site painting is specified, special procedures specified by suppliers shall be obtained for this Finishing coats: Apply by brush, roller or spray: two coats of Plascon Hysheen Enar (DFT 25 - 35 µm per coat); Over coating time: 24 hours Overcoating time: 24 hours minimum Minimum total DFT (dry film thickness): 90µm All bracing at the truss top chord to be pa The stages of paint shall be subject to holding points for inspection by the suppliers Inspectors as set out in the suppliers final paint specification. No paint guarantee can be given without the stipulated inspections. The final paint specification will contain a project action sheet that must be completed prior to commencement of painting. Without said action sheet inspections cannot be planned and actioned, resulting in no paint guarantee. Depending on mode of paint application, multiple coats may be required to achieve specified DFT and/or full obliteration. After erection, repair all damaged areas as above. All bracing at the truss top chord to be painted san Intermediate Coat (Optional in coastal areas for increased life copycomic, specification): Apply by airless spray (preferable) or conventional spray one coat of Plascotuff MIO (micaceous iron oxide) (Code: PEX 125 / PEH 125) (DFT 100 (min) - 200 (max) µm) Apply by brush or roller a stripe coat of Plascotuff 3000 (Code: PEX3004 / PEH 3) to all edges, welds, bolt holes, etc. (DFT 100 (min) - 200 (max) μm) teelwork delivered to site shall be stacked on timber russes and girders to be stored vertically. Apply by spray (airless or conventional), brush or roller one full coat (Code: PEX3004 / PEH 3) (DFT 100 (min) - 200 (max) μm) Overcoating time: 16 hours minimum , 2 weeks maximum for above itroids of all members to intersect at node itions (hot dip galvanizing, paint optional): 空 eans of Wattman Paper, Weber Reilly or similar test met chloride content complies with SANS 5770 specification: Apply by airless spray; one coat of zinc phosph. Over coating time: Surface preparation: Wire brush steel to Sv tions to be adequate to develop the full ter Continuous fillet welds either side of the web to both flanges. Weld size as specified. All anchor bolts welded onto anchor plates need to be inserted into holes in the plate athen welded on with full penetration weld from both sides of the plate. 15% of all shop butt welds shall be examined radio graphically. Welds to be selected a random. All site butt welds shall be examined radio graphically The standard of acceptance of butt welds shall be the Code D 1.1. and knee bra grout shall be placed ed centrally on gridlines ed and, if requ ate primer (Code UC 182 24 hours ed by the

Main pipe runs and heavy items are to be suspe clamps may be used. These clamps or any other from a truss node point. (See illustration below) nded from trusses and girders only. Approved flange support fixing shall never be further than 100mm av

NOTES:

DRAWINGS MUST NOT BE BE CONFIRMED ON SITE.

SCALED.

MEASUREMENTS

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running perpendicular to purlins are to be suspended from every purlin it crosses. running parallel to purlins have to be suspended from two adjacent purlins at maxin 1800mm c/c.

Penetrations and holes required in galvanised steel shall be predrilled before steel is galvanised. No drilling is allowed on site in any galvanised structural steel members, unless written instruction is given by the Engineer.

DRAWINGS TO BE READ WITH THE PROJECT SPECIFICATIONS AND APPLICABLE SANS 1200 CODES. DRAWINGS TO BE READ WITH THE ARCHITECTS DRAWINGS AND ALL DISCREPANCIES TO BE REPORTED TO THE RESPONSIBLE ENGINEER IMMEDIATELY. DRAWINGS TO BE READ WITH THE GENERAL NOTES DRAWING AND ALL TYPICAL DETAIL DRAWINGS WHERE APPLICABLE. AS-BUILT

RECORD

REPAIR STANDARD DATE VERSION/AMENDMENTS LERATO OF 491 NOTES SHEET ORIGINAL DRAWING SHEET SIZE: PARK CO-ORDINATE SYSTEM RDP 2 AND **HOUSES DETAILS**

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APPROVED: CLIENT OR ASSIGNEE