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| Lot No: | Lot Details: | Lot size/Quantity: | Date: |

| **Item**  **No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility** |  | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | Project Engineer  Principal’s Rep.  Surveyor  Foreman |  |  |  |
| **1.0** | **Preliminary Activities – Permits, Documentation, Approvals, Survey Documentation** | | | | | | | | | | |
| 1.1 | Check for correct documentation | Prior to commencing activity | Ensure that all employees and subcontractors are: - using the correct and complete set of drawings. - all drawings are the latest revision. | Drawings / Aconex Register | Verify | Drawings and drawing registers | HP\* | Project Engineer |  |  |  |
| 1.2 | Implementation of all measures and controls | Prior to commencing activity | All necessary measures and controls being implemented, that is PSP, EMP, TMP, SWMS & WP. | PSP, EMP, TMP, JSEA, SWMS, WP | Visual inspection | This ITP signed | HP\* | Project Engineer |  |  |  |
| 1.3 | Survey Checks | Prior to commencing activity | Check survey to be completed of all footing positions prior to placing any of the panels. | Drawings | Verify | This ITP signed  Survey Report | HP\* | Project Engineer / Surveyor |  |  |  |
| 1.4 | Submission & approval of precast shop drawings | Prior to commencing activity | **HOLD POINT**  Submit precast wall panel shop drawings to the principal’s representative for approval prior to fabrication commencement. | ZULU-BECA-001-SPC-00005  0321 cl 1.16  Drawing 20003 note PC7 | Verify | Aconex Reference | **HP** | Project Engineer **/ Principals Representative** |  |  |  |
| 1.5 | Submission & approval of structural steel shop drawings | Prior to commencing activity | **HOLD POINT**  Submit structural steel shop drawings to the principal’s representative for approval prior to fabrication commencement. | Drawings 20002, 20020, 20113, 20221 | Verify | Aconex Reference | **HP** | Project Engineer **/ Principals Representative** |  |  |  |
| 1.6 | Material Submissions | Prior to commencing activity | **HOLD POINT** Items to include but not limited to:   * Concrete Mix Design * Element Casting Checklist * Steel Reinforcement * Precast Sample * Bolts * Ferrules * Grout * Incompressible filler | ZULU-BECA-001-SPC-00005 cl 1.16  Structural Drawing Set 030-20  AS/NZS 1252.2 | Verify | Aconex Reference | **HP** | Project Engineer **/ Principals Representative** |  |  |  |
| 1.7 | Welding Certification | Prior to commencing activity | Submission & approval of the following:   * Welding Procedure Qualification * Welding Procedure Specification * Welder Qualification * Approved Consumables | AS1554.1 | Verify | This ITP Signed  Qualification Documents | HP\* | Project Engineer |  |  |  |
| 1.8 | Temporary Works – Pre-Cast Concrete Panels | Prior to commencing activity | Submission and approval of the following documentation by the FH Temp Works Coordinator (not limited to):   * Certification of Lifting Points * Propping plan * Erection sequence * Lift Plan * Certification of Ground Platform for lift * Lifting inserts | Structural Drawing Set 030-20 | Verify | Certification of lifting points, propping plan, erection sequence, lift study  Geo Report | HP\* | Project Engineer |  |  |  |
| 1.9 | Temporary Works – Structural Steel Roof | Prior to commencing activity | Submission and approval of the following documentation by the FH Temp Works Coordinator (not limited to):   * Certification of Lifting Points * Installation sequence * Lift Plan * Lifting Point calculation * Certification of Ground Platform for lift | Structural Drawing Set 030-20 | Verify | Certification of lifting points, erection sequence, lift study  Geo Report | HP\* | Project Engineer |  |  |  |
| **2.0** | **Construction - Precast Concrete Panel** | | | | | | | | | | |
| 2.1 | Fabrication Inspections | Each Lot | Inspection of the following prior to casting:   * Formwork dimensions & stability * Edge details and penetrations * Connection materials and inserts in place * Reinforcement * Concreting   Inspection of the following after casting   * First precast element of each type at the earliest possible time before and immediately after stripping * Stripping & storage | ZULU-BECA-001-SPC-00005  0321  Shop Drawings | Verify | This ITP Signed  Element Casting Checklist | **WP** | Project Engineer **/ Principals Representative** |  |  |  |
| 2.2 | Delivery of Precast Panels | Each Lot | Complete inspection of precast panels whilst still loaded on the truck prior to accepting the delivery on site.  Identify any damage/defects prior to unloading of the material and correct panel being delivered as per the sequence.  Precast element identification is available on each panel | FH Quality Process | Visual Inspection | This ITP Signed  Materials Inspection Checklist on Conqa | IP | Project Engineer / Site Engineer |  |  |  |
| 2.3 | Erection Preparation | Each Lot | Complete Pre-Lift/s Commencement Checklist  Ensure erection drawings & propping plans available to the crew | ZULU-BECA-001-SPC-00005  0321  AS 3850 cl 4.4.2 | Visual Inspection | Pre-Lift/s Commencement Checklist  This ITP Signed | IP, SCP | Site Engineer / Foreman / Surveyor |  |  |  |
| 2.4 | Panel Placement | Each Lot | Levelling shims have been set correctly and gap between the footing & precast panel is not greater than 40mm  Survey to confirm panel placement as per the design | ZULU-BECA-001-SPC-00005  0321  Drawings | Verify | This ITP Signed | IP / SCP | Site Engineer / Surveyor |  |  |  |
| 2.5 | Propping & supports | Each Lot | **Witness Point**  Propping plan is available for each precast panel  Ensure propping is installed as per engineer’s design and/or conforms to AS 3850.2 Sections 5  Inspection Notice provided for installed temporary bracing | ZULU-BECA-001-SPC-00005  0321  AS 3850.2 Section 5 | Visual Inspection | This ITP Signed  Building Engineering ITP | **WP** | Site Engineer / Foreman **/ Principals Representative** |  |  |  |
| 2.6 | Fixing & Welding on Precast Elements | Each Lot | Install all fixings as per the drawings & engineers plan  All welding shall be carried out in accordance with AS 1554.1 unless noted otherwise, all welds shall be 6 continuous fillet category SP using E49XX electrodes - butt welds shall be complete penetration butt welds, category SP. | AS 1554.1  Drawing 20002 | Verify | This ITP Signed  Welding Certificate | HP\* | Site Engineer / Foreman |  |  |  |
| 2.7 | Testing of Welding on Precast Elements (if required) | Each Lot | A competent inspector shall inspect welding works as per the below table or as otherwise stated by the engineer: | Drawing 20002 Note S8 | Verify | This Signed ITP  Welding Test Certificate | HP\* | Project Engineer / Site Engineer |  |  |  |
| 2.8 | Grouting | Each Lot | Grout to be used shall be non-shrink and have a 28 day characteristic strength of 40 MPA. Details of the proposed grout used to be submitted to the engineer for approval.  Note: sealing of the panel vertical joints will be by the precast contractor. | Drawing 20003 Note PC35 | Verify | This ITP Signed  Building Engineering ITP | IP | Site Engineer / Foreman |  |  |  |
| 2.9 | Removal of Props and Inspection of Completed Precast Walls | Each Lot | **HOLD POINT**  Inspection Notice provided of the final structure before removal of temporary bracing  All propping must remain in position until all structural elements (roof beams, bracing, struts and purlins) affecting stability are fully erected and braced, securely fixed to the panels and the panels have become an integral part of the structure. During construction the builder must ensure no panel props are disconnected by contractors other than the panel contractor.  No propping is to be removed without the written consent of the engineer | Approved Shop Drawings  Drawing 20003 | Visual Inspection | This ITP Signed  Engineers Written Approval  Building Engineering ITP | **HP\*** | Project Engineer / **Principal’s Representative** |  |  |  |
| **3.0** | **Construction - Structural Steel Roof** | | | | | | | | | | |
| 3.1 | Delivery of Steel Sections | Each Lot | Complete a materials inspection upon arrival of steel sections.  Ensure correct components and sections have been sent | FH Quality Process | Visual Inspection | This ITP Signed  Building Engineering ITP  Materials Inspection Checklist on Conqa | HP\* | Project Engineer / Site Engineer |  |  |  |
| 3.2 | Erection Preparation | Each Lot | Complete Pre-Lift/s Commencement Checklist  Lift sequence/arrangement of steel members available  Adequate fall protection in place eg guard rails, safety mesh | Drawing 20002 | Verify | This ITP Signed  Building Engineering ITP | HP\* | Project Engineer / Site Engineer |  |  |  |
| 3.3 | Erection of Steel Members | Each Lot | Steel Members erected as per design layout and Steel Framing Schedule | Erection Sequence  Approved Shop Drawings  Structural Drawing Set 030-20 | Visual Inspection | This ITP Signed  Building Engineering ITP | IP | Site Engineer / Foreman |  |  |  |
| 3.4 | Bolt installation | Each Lot | Unless otherwise noted, all bolts shall be M20 Grade 8.8/S, all H/D bolts shall be grade 4.6/S.  No connection shall have less than 2 bolts  Bolts to be installed as per manufacturer/engineer specification | Drawing 20002 Note S6 | Visual inspection | This ITP Signed | IP | Site Engineer / Foreman |  |  |  |
| 3.5 | Welding on Steel Framing | Each Lot | All welding shall be carried out in accordance with AS 1554.1 unless noted otherwise, all welds shall be 6 continuous fillet category SP using E49XX electrodes - butt welds shall be complete penetration butt welds, category SP. | AS 1554.1  Drawing 20002 | Verify | This ITP Signed  Welding Certificate | HP\* IP | Project Engineer / Site Engineer |  |  |  |
| 3.6 | Testing of Welding on Steel Framing | Each Lot | A competent inspector shall inspect welding works as per the below table: | Drawing 20002 Note | Verify | This Signed ITP  Welding Test Certificate | HP\* | Project Engineer / Site Engineer |  |  |  |
| 3.7 | Inspection of Completed Steel Framing | Each Lot | **WITNESS POINT**  Provide notice for an inspection of the Steel Framing erected on site before installation of roofing sheets/lining. | ZULU-BECA-001-SPC-00005  0342 cl 1.17 | Visual Inspection | This ITP Signed  Building Engineering Structural Steel ITP | **WP** | Project Engineer / **Principal’s Representative** |  |  |  |
| 4.0 |  | | | | | | | | | | |
| 4.1 | Airport Building Controller Sign Off | At the completion of works | **HOLD POINT**  Give 72 Hr Notification to the Airport Building Controller for Mandatory Inspection of completed precast & steel framework. | ALER 3 Building Permit | Verify | This ITP Signed  Inspection Certificate | **HP** | Project Engineer / **Principal’s Representative** |  |  |  |

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| **Final Inspection** The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan’s Quality system Procedures and verifies lot compliance with specifications.  **Print Name: Position: Signature: Date: / /** |

**Legend:**

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| **HP** | Hold Point | Work shall not proceed past the HP until released by the Principal’s Representative | **IP** | Inspection point | Formal Inspection to be done and recorded |
| **HP\*** | Fulton Hogan Hold Point | Work shall not proceed past the HP\* until released by Fulton Hogan | **TP** | Test Point | Product compliance test to be undertaken and recorded/reported |
| **WP** | Witness Point | An inspection which must be witnessed by the Principal’s Representative | **SCP** | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| **AP** | Approval Point | Written or verbal approval given by the Principal’s Representative |  |  | |

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| **Notes** |  |  |  |  |