NOTE:
REFER TO DRAWING:

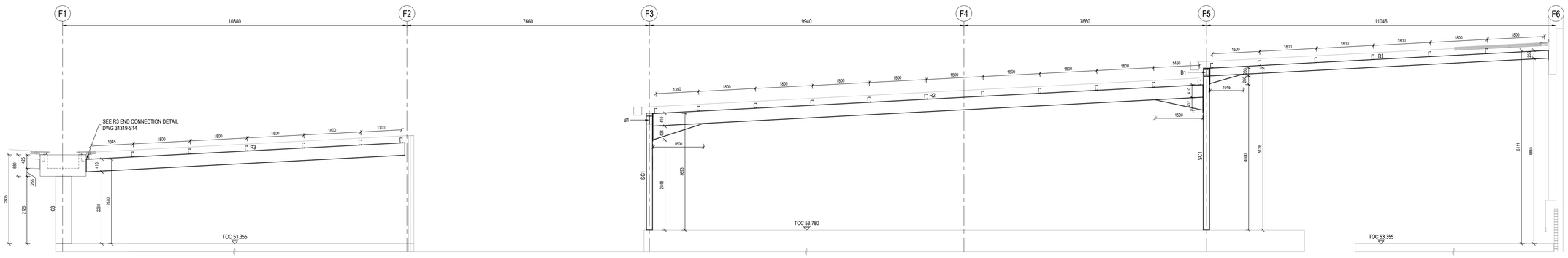
- 31319-S21 FOR SECTIONS D & E
- 31319-S24 FOR SECTIONS C & F
- 31319-S25 FOR SECTION B1
- 31319-S26 FOR SECTION B2
- 31319-S14 & S27 FOR STRUCTURAL STEEL DETAILS

Architect's Notes: Please allow for the following columns to be painted at first floor level

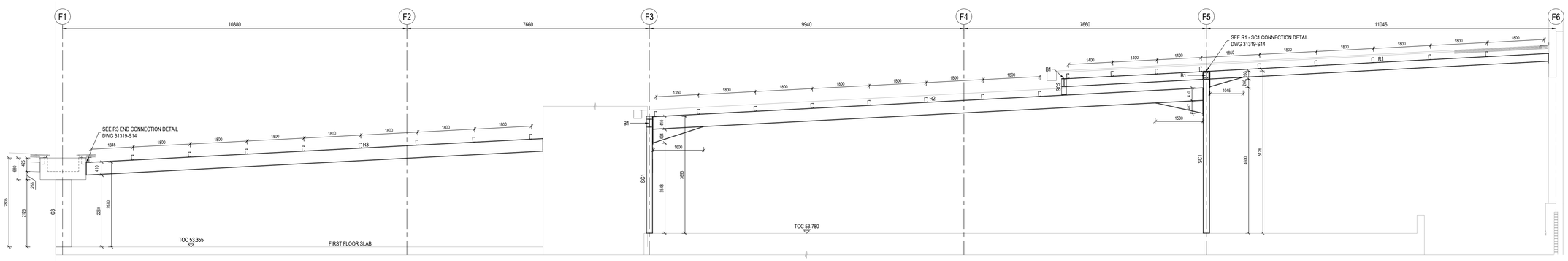
1. **F5 / FB**
2. **F5 / FC**
3. **F5 / FG**
4. **F5 / FH**
5. **F5 / FG**
6. **F5 / FK**
7. **F3 / FG**
8. **F3 / FH**
9. **F3 / FK**
10. **F2 / FH**

Paint Specification: (See 31309-S27 SH 3 OF 3)

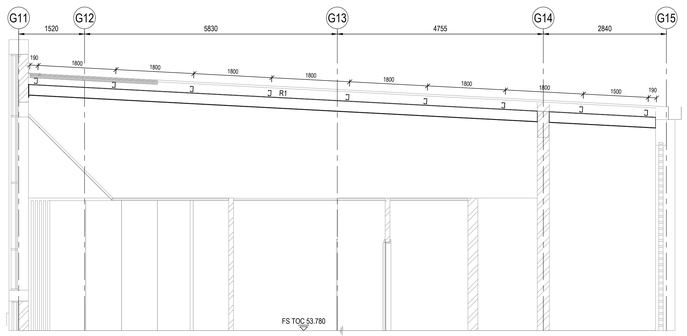
MEMBER SCHEDULE		
MARK	SECTION	COMMENTS
SC1	203*203*60	COLUMN
SC2	152*152*37	STUB COLUMN
B1	254*146*43	BEAM
H1	406*178*67	HIP RAFTER
H2	254*178*43	HIP RAFTER
R1	254*146*43	RAFTER
R2	406*178*67	RAFTER
R3	406*178*67	RAFTER
P1	150*75*20*2.5	PURLINS
P2	125*65*20*3.0	PURLINS
FR	100*100*8 ∠	FALSE RAFTER
BR	70*70*6 ∠	ROOF BRACING
BR1	101.6*2.5 CHS	ROOF BRACING



SECTIONAL ELEVATION ON GRID FH
SCALE 1:50



SECTIONAL ELEVATION ON GRID FI
SCALE 1:50



SECTIONAL ELEVATION ON GRID GU (TYPICAL)
SCALE 1:50

Paint Specification:
V27Galvanized / Polyurethane Non-drip Enamel Paint Finish to Metal Work

1. SURFACE PREPARATION:
   - 1.1. To remove all dust and debris, as well as white rust, acid, and salts, bristle scrub the entire surface with DULUX GALVANISED IRON CLEANER thinned 20% with water. Before the DULUX GALVANISED IRON CLEANER dries, remove residues with clean running water, preferably under pressure. To ensure that the surface is thoroughly clean, test for a "water-break" free surface (running water should not form droplets). The cleaning process with DULUX GALVANISED IRON CLEANER should be done in small areas as it is very difficult to remove DULUX GALVANISED IRON CLEANER from a substrate once it has dried. Galvetch or similar, approved cleaner for galvanised iron may used to remove white rust.
2. APPLICATION:
   - 2.1. To clean, rust-free bare metal areas, apply COAT 1 as a patch primer. Allow drying
   - 2.2. Apply COAT 2 as an overall undercoat and allow overnight drying
   - 2.3. Finish with COATS 3 and 4, to obtain a closed film and solid colour. Allow 18 hours re-coating time

	PAINT SYSTEM	RE-COATING TIME
CLEANER	DULUX GALVANISED IRON CLEANER	- -
COAT 1	DULUX PRIMER FORGALVANISED IRON	18 HOURS MIN 48 HOURS MAX
COAT 2	DULUX TRADE UNIVERSAL UNDERCOAT	18 HOURS
COAT 3	DULUX PEARLGLO POLYURETHANE NON-DRIP ENAMEL	4 HOURS
COAT 4	DULUX PEARLGLO POLYURETHANE NON-DRIP ENAMEL	4 HOURS

Revisions:

Rev.	Date	Drawn	Description
C0	14-11-2024	D.J.P	CONSTRUCTION

PLEASE READ THOROUGHLY!!!

GENERAL NOTES:

G1. All work to be carried out in accordance with the latest issue of SANS 1200 unless noted otherwise.
G2. All setting out to Architect's details.
G3. Piles, pile caps, ground beams, footings, and columns are central on grid lines unless Shown otherwise.
G4. Contractor to check all dimensions and levels prior to commencing work on site, and any discrepancies to be reported to the Engineer immediately.

CONCRETE NOTES:

C1. Blinding concrete to be placed below all pile caps, ground beams, and footings and shall be a minimum of 50mm thick.
C2. Concrete mix design to SANS 10100. Design loads from SANS 10160 and Client's specification.
C3. Concrete mix designs to be submitted to Engineer for approval prior to commencement of work. Only Engineer-approved admixtures to be used.
C4. Foundations designed for a bearing pressure of 80kPa. Refer to DRENNAN, MAUD (PTY) LTD Report Ref. 22649P.
C5. All concrete to have a minimum compressive strength at 28 days as follows:
   - Blinding: 15 MPa / 25mm
   - Foundations: 25 MPa / 25mm
   - Columns: 30 MPa / 19mm
   - Surface Beds: 25 MPa / 19mm
   - Suspended Slabs & Beams: 30 MPa / 19mm
C6. Concrete cover to main reinforcement:
   - Foundations: 50 mm
   - Columns: 30 mm
   - Surface Beds: 50 mm
   - Suspended Slabs & Beams: 30 mm
C7. All concrete work, including formwork stripping times and propping, to SANS 1200-GB.
C8. Formwork classification:
   - Concealed surfaces: Rough
   - Exposed surfaces (unless otherwise shown): Smooth (off-shutter) to Grade II tolerances.
   - Exposed surfaces (where specified by architect): Smooth-special to SANS 2001-CC1: 4.3.1.8 Table 1. Degree of accuracy I Table 11.
C9. All sharp edges to concrete to have 25mm chamfers.
C10. Unformed surface finishes as follows:
   - Surface Beds: Power-floated
   - Suspended Slabs: Power-floated
C11. All services and sleeves to be positioned prior to concrete pour. No in situ concrete to be cast without prior approval from the Engineer.
C12. The positions of all construction joints not shown on the drawings are to be discussed with and approved by the Engineer.

REFER TO DRAWING 3119-S20 - GENERAL NOTES

STEEL NOTES:

S1. Contractor to check all dimensions on site prior to fabrication. Any discrepancies to be reported to the Engineer immediately.
S2. No steelwork is to be fabricated prior to the Engineer's approval of shop drawings.
S3. Steelwork grades shall be as follows:
   - Hot rolled sections: Grade S355JR to EN10025-2
   - Hot rolled angles 50x50 and under and cold rolled open sections: Grade "CQ" (Commercial Quality steel to SANS 10162)
   - Hot formed hollow sections: Grade 355W to SANS 657-1.
S4. All hot rolled steelwork to be painted in accordance with the project specification.
S5. All cold rolled steelwork to be hot dip galvanised to SANS 121 and treated with a suitable degreasing agent.
S6. The ends of all tubular and hollow sections are to be sealed with nominal thickness plates and continuous fillet welds unless shown otherwise.
S7. All gusset and end plates to be 10mm unless shown otherwise.
S8. Unless shown otherwise, purlins and girts shall be continuous over at least two spans.
S9. All welds to be full strength U.O.N.
S10. Welding shall be performed by a certified welder in accordance with the requirements laid down in the latest issue of SANS 10044.
S11. Welds shall be 6mm continuous fillet welds with E70XX Electrodes unless shown otherwise.
S12. Unless shown otherwise, all bolts shall be M16 Grade 4.8 to SABS 135.
S13. Exposed ends of holding-down bolts shall be protected from damage during and after placement of concrete.
S14. The Contractor shall provide and leave in place until permanent bracing elements are constructed, such temporary bracing as is necessary to stabilise the structure during erection.

REFER TO DRAWING 3119-S20 - GENERAL NOTES

IF IN DOUBT, ASK!!!

HEALTH DEPARTMENT SIGNATURES

DEPUTY DIRECTOR GENERAL:

HEAD OFFICE PROGRAMME / SERVICE:

DISTRICT MANAGER:

CEO MANAGER OF THE FACILITY:

DOH PROJECT MANAGER:

IMPLEMENTING AGENT PROJECT MANAGER:

PROFESSIONAL SERVICE PROVIDER

Name: **S. Boyce (Pr. Eng. 20160768)**

Signature: Date: 04/02/2025

Consultant

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health
Department:
Health
PROVINCE OF KWAZULU-NATAL

KWAZULU-NATAL PROVINCE
PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

SOUTHERN REGION

Project

DEPARTMENT OF HEALTH
PORT SHEPSTONE HOSPITAL
NEW PSYCHIATRIC WARD

Drawing description

STRUCTURAL STEEL
SECTIONAL ELEVATIONS

Drawn: I.B.U / D.J.P Date: 27-08-2024
Scale/s: As shown
Consultant Drawing number: **31319-S27 SH3of3** Rev: C0
Drawing number: **WIMS 044 044 / S / 27 SH3of3 / C0**
Stamped by Health Plans Approval Committee