

ANNEXURE A

ASSET DESCRIPTION: SECURITY WALL

ASSET LOCATION: STATION AREA

CITY / TOWN: SWELLENDAM

WORK DESCRIPTION: SUPPLY AND ERECT 504m x 2,2m x 120mm PRESTRESSED CONCR

TENDER NO: BLE / 52106

ASSET NO: 07MFT02C

ITEM NO. SPECIFICATIONS PER ITEM.

FENCING

892 Swellendam Asset no. 07MFT02C :

Work description : Distance of Pre-Cast Concrete Security wall = 504 m long (1/456m and 1/48m)

See Annexure D and E for information to erect wall and Annexure F for the site plan that indicate the position of the wall.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B

TENDER PRICE LIST PER ITEM FOR FENCING

ASSET DESCRIPTION: SECURITY WALL

CITY / TOWN: SWELLENDAM

TENDER NO: BLE / 52106

ASSET NO: 07MFT02C

WORK DESCRIPTION: SUPPLY AND ERECT 504m x 2,2m x 120mm PRESTRESSED
CONCRETE HOLLOWCORE SECURITY WALL

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities as stated before ordering any material. The measurement and quantities are only for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached worklist and specification and as may be ordered by the Project Manager.

GENERAL: All normal cleaning, preparation include sanding and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. All scaffolding and use of ladders as necessary is part of all the items. All work shall be done according to the attached specifications. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

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SUB TOTAL PAGE 1

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TENDER NO: BLE / 52106

ASSET NO: 07MFT02C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
FENCING					
892	Swellendam : Asset no. 07MFT02C Erect Security Concrete Wall 504m long x 2,20m high x 120mm thick as per Specifications and position on plan Annexure F.	504	M		

Respondent's signature: _____

Date: ____/____/____

TENDER NO: BLE / 52106

ASSET NO: 07MFT02C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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PRELIMINARY AND GENERAL

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

RISK AND SAFETY

RISK ASSESSMENTAND SAFETY INDUCTION

Cost for the risk assessment must include a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work must be provided and Implemented.

TOTAL

Cost for the risk assessment and safety include complete compliance with the current Occupational Health Safety Act.

Included in risk and safety, The standardised Transnet Freight Rail induction shall be given to all staff of all contractors at the start of each project and the contractors shall send all his staff that will work on the Transnet Freight Rail site to the induction on the date as agreed on between TFR Project manager and the contractor.

The total price, excluding VAT, must be carried over to the Service Fee and Cost Form, Section 6 of the RFQ. The amount must also be written in words on the Service Fee and Cost Form.

Respondent's signature: _____

Date: ____/____/____

ANNEXURE D

TENDER NO. BLE / 52106

SWELLENDAM - SPECIFICATION FOR 2,2m high x 120mm thick PRESTRESSED CONCRETE HOLLOWCORE SECURITY WALL

1. SUPPLY AND ERECT 2,2m High SECURITY WALL COMPRISING THE FOLLOWING COMPONENTS

A. Vertical steel H-Sections (152 x 152 x 23kg/mt Universal Columns) 3,40m long positioned into 1000 x 1000 x 1000mm deep 25Mpa concrete bases. At 6,060m centres along entire length of proposed security wall.

B. Prestressed precast concrete 120mm thick wall slabs (1200mm high x 5000mm long) as supplied by Messrs Topfloor or alternative member of Concrete Manufacturers Association (CMA) or similar and approved, positioned vertically into slots of above steel H-Sections.

2. SCOPE OF THE WORK

A. Excavations for concrete bases to be carried out at 6060mm centres along entire length of wall. Size of base to be 1000 x 1000 x 1000mm deep and soil at bottom of base to be well compacted.

B. Steel H-Section (152mm x 152mm x 23kg Universal Columns) to be placed vertically into prepared excavated bases. (Suggestion - bottom of H-Section to rest on top of 50mm thick concrete paving slab to resist penetrating into soil). H-Section to be positioned extending 2200mm above ground level and temporarily strutted/braced whilst concrete is poured into base.

C. Cast 25Mpa concrete into bases and vibrate well to give required compaction. Top of concrete bases to be finished level at approximate heights 100mm below ground level.

D. Where wall changes direction, a single steel H-Section may be used, but two vertical steel flanges of the same thickness x 100mm wide must be welded to such H-Section at (extending 2400mm down from the top) the appropriate angle to house end of next precast concrete wall slabs.

E. Slide precast concrete hollowcore wall slabs into slots in steel H-Section onto top of concrete bases, ensuring that slabs are level and flush with top of steel H-Sections. Smooth side of concrete wall slab to placed against face of steel H-Section.

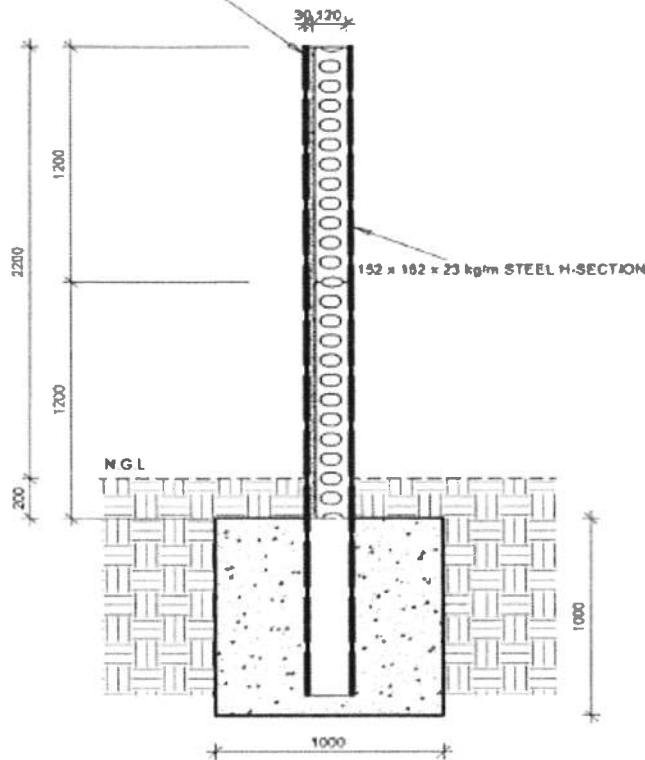
F. Resulting 30mm gap between other side of concrete wall slab and steel H-Section to be grouted by walling contractor using 1:3 cement/sand mix.

G. After erection of wall is complete, backfilling to be completed against wall slabs and over concrete bases.

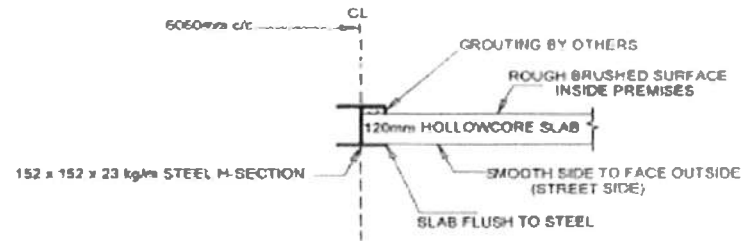
Swellendam - Prestressed Hollowcore Security Wall
BLE / 52106

Annexure E

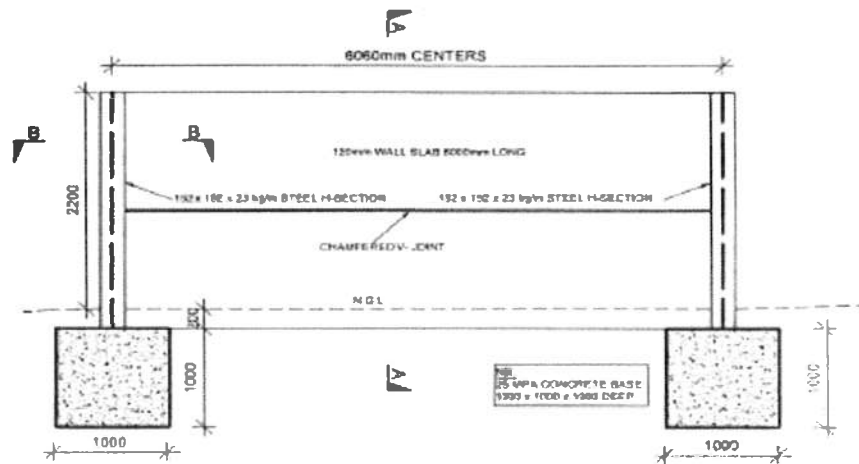
NB:
 SMOOTH SIDE OF HOLLOWCORE SLAB TO BE POSITIONED
 FLUSH HARD UP AGAINST INSIDE FACE OF STEEL H-SECTION
 RESULTING +/- 30mm GAP BETWEEN SLAB ON OPPOSITE SIDE
 TO BE GROUTED USING 1:3 CEMENT/SAND MIX



1:25 SECTION A-A



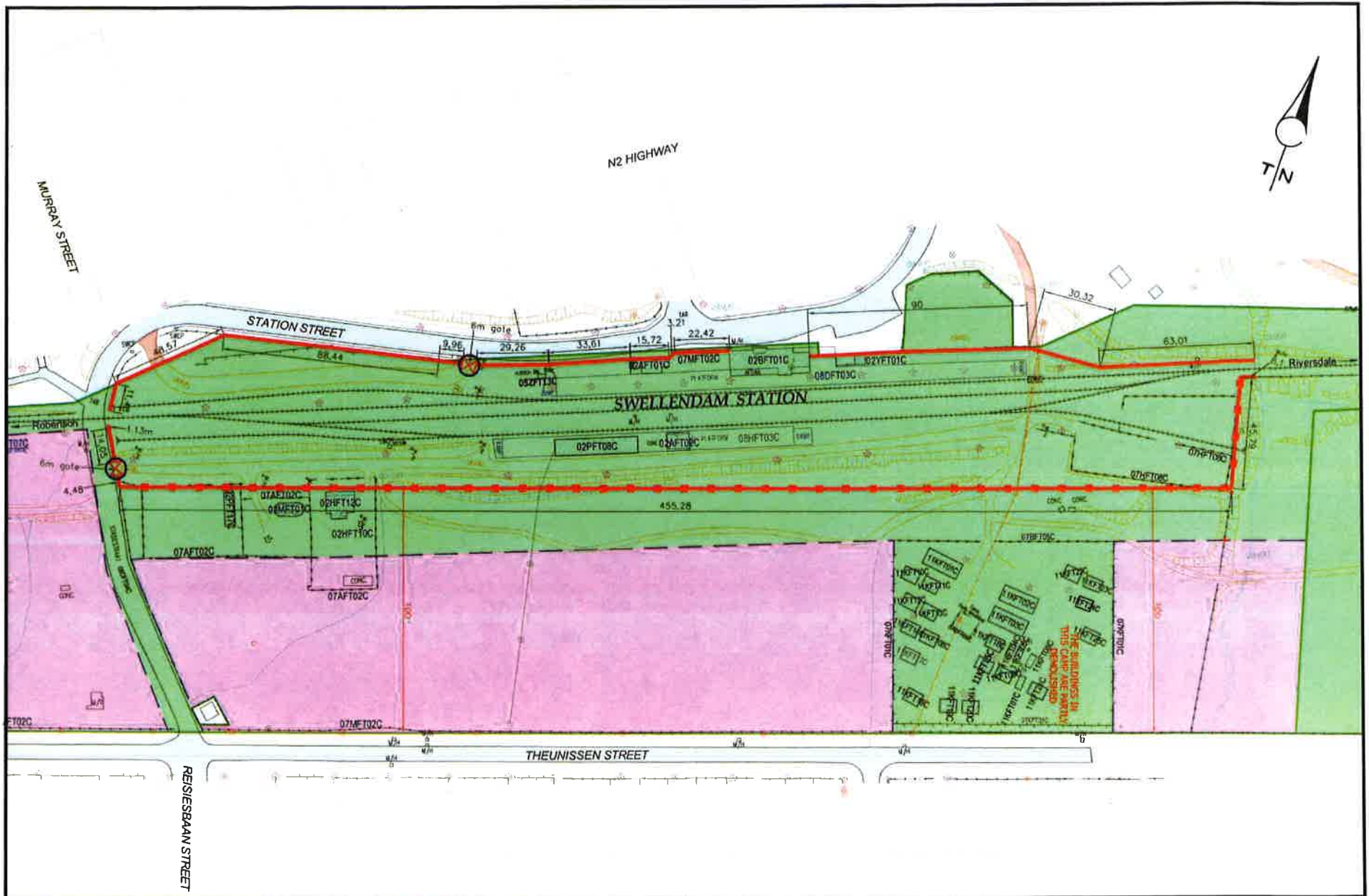
1:25 SECTION B-B



TYPICAL 120mm THICK WALL SLAB LAYOUT
 1:50 SCALE

SCOPE OF WORK :

1. INSTALLATION OF VERTICAL STEEL H-SECTIONS INCLUDING EXCAVATION AND CASTING OF CONCRETE INTO BASES TO BE DONE BY SPECIALIST CONTRACTOR SUCH AS CONTRACTOR TO CARRY OUT VERTICAL GROUTING BETWEEN SLABS AND STEEL H-SECTION. AFTER INSTALLATION OF SLABS, CONTRACTOR TO ENSURE ALL STEEL H-SECTIONS ARE VERTICAL AND HEIGHTS OF TOPS OF H-SECTIONS + CONCRETE BASES ARE CORRECT
2. TOP FLOOR TO PLACE SLABS INTO POSITION BETWEEN VERTICAL STEEL H-SECTIONS.



LEGEND:

- Transnet Freight Rail
- Transnet Property
- Razor Wire Fence
- Wall
- X Gate



TRANSNET

Plan prepared by:
GEO-SPATIAL : WESTERN REGION, TRANSNET PROPERTY

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CAPE TOWN CAPE TOWN
8001 8003

SWELLENDAM

DISCUSSION PLAN

ROUTE OF PROPOSED RAZOR WIRE FENCE

Completed: H.K.	Date: 2012-05-07	SCALE : 1 / 1 500	
Checked: B.A.S.	Original Ref: R.A.F./112344		Plan No. SWD 0015m