



FOR OWNER : DURBAN HIGH SCHOOL
TEL. NO. 031 277 1500

SIGNATURE: HR. PHEGRO - HEADMASTER



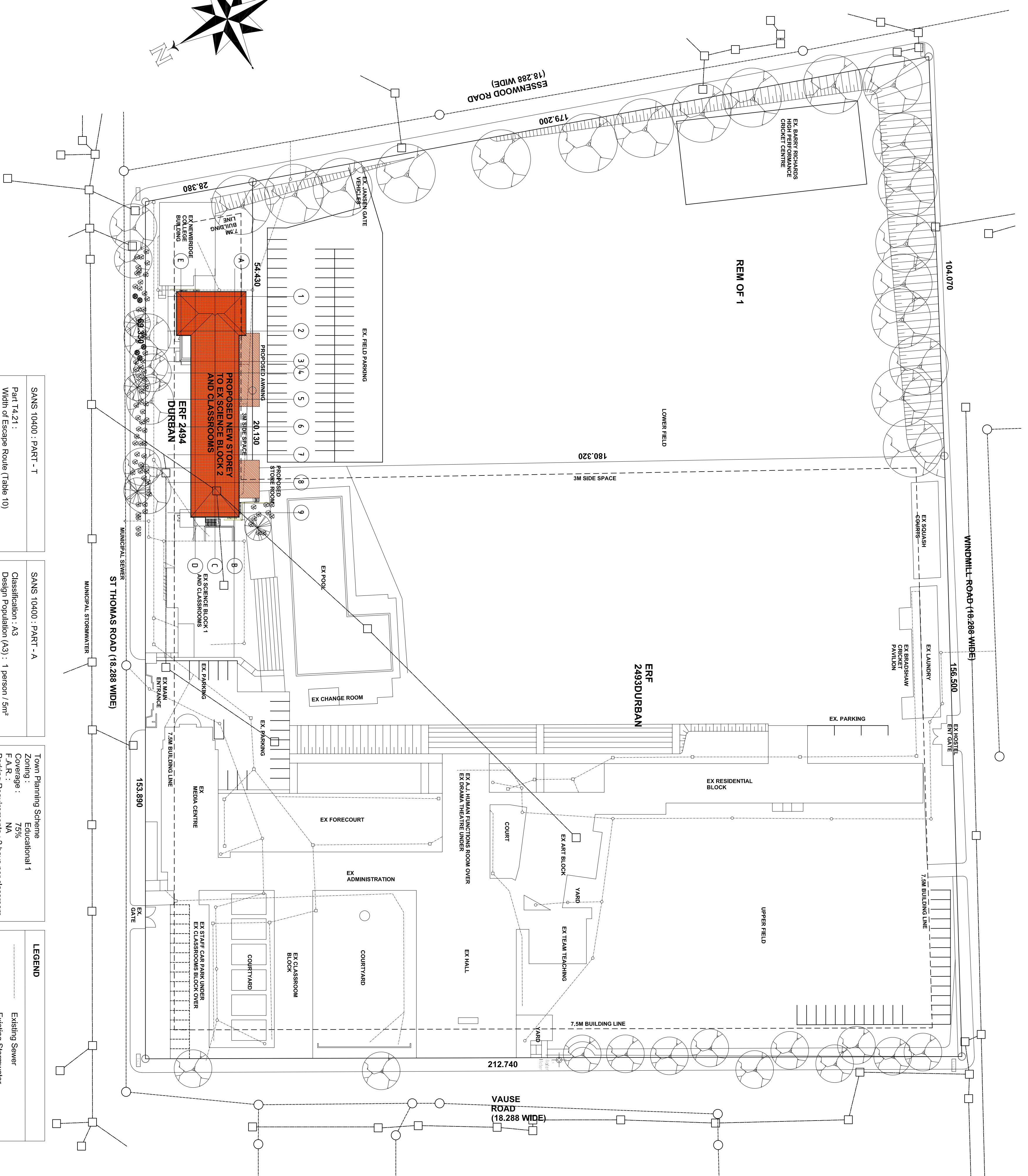
SIGNATURE: R. JEMWALL - S10117

PROJECT: NEW CAMBRIDGE FLOOR TO EXISTING BUILDING AT DURBAN HIGH SCHOOL AT 255 ST. THOMAS ROAD, BEREA, DURBAN ERF 2493 & 2494 DURBAN

TRAINING SITE PLAN

SCALE:	DRAWN:	CHECKED:	DATE:
1 : 500	UR	RJ	14/02/22

PROJECT NO:	DRAWING NO:	REVISION:
11-21	1,100	



<p>SANS 10400 : PART - T</p> <p>Part T4.21 : Width of Escape Route (Table 10)</p> <p>New Second Floor Number of Persons = 120 persons Stair Width to be 1100mm (Complies)</p> <p>Existing First Floor Number of Persons = 99 persons Stair Width to be 1000mm (Complies)</p> <p>Existing Ground Floor Number of Persons = 99 persons (Escapes to directly to Ground Level with no stair access)</p>	<p>SANS 10400 : PART - A</p> <p>Classification - A3 Design Population (A3) : 1 person / 5m²</p> <p>New Second Floor Area : 586m² = 120 persons</p> <p>Existing First Floor Area : 491m² = 99 persons</p> <p>Existing Ground Floor Area : 491m² = 99 persons</p>	<p>SANS 10400 : PART - A</p> <p>Classification - A3 Design Population (A3) : 1 person / 5m²</p> <p>New Second Floor Area : 586m² = 120 persons</p> <p>Existing First Floor Area : 491m² = 99 persons</p> <p>Existing Ground Floor Area : 491m² = 99 persons</p>	<p>Schedule of Parking</p> <p>No. of Classrooms = 60 Existing Parking Bays = 125 New Parking Bays = Nil Required Total Bays shown = 125</p>
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<p>Town Planning Scheme</p> <p>Zoning : Educational 1</p> <p>Coverage : 75%</p> <p>F.A.R. : NA</p> <p>Parking Requirements : 2 bays per classroom</p> <p>Side Space : 7.5m</p> <p>Rear Space : 3m</p>	<p>Schedule of Areas</p> <p>ERF 2493 Durban = 33 012m²</p> <p>ERF 2494 Durban = 2 007m²</p> <p>Total Site Area = 35 019m²</p> <p>Existing Coverage = 7 225m²</p> <p>New Coverage = 23 600m²</p> <p>New Second Floor = 708m²</p> <p>New LG = 57m²</p> <p>New F.A.R. = 765m²</p> <p>New Total F.A.R. = 24 308m²</p> <p>New Coverage = 124m²</p> <p>New Total Coverage = 7349m²</p>
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<p>LEGEND</p> <p>Existing Sewer</p> <p>Existing Stormwater</p>	<p>SANITARY FIXTURES</p> <p>Provision of Sanitary Fixtures SANS 10400 Part P 4.11</p> <p>Number of existing fixtures remain as there is NO increase in learner numbers occurring due to added F.A.R. area.</p> <p>Provision of Disabled Sanitary Fixtures and Parking SANS 10400 Part S</p> <p>Number of existing fixtures and positions of disabled parking spaces existing as there is NO increase in learner numbers occurring due to added F.A.R. area.</p> <p>PARKING</p> <p>Provision of Parking The education zone requirement is to provide on site drop off and pick-up - This is non applicable due to the school being existing.</p>
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Classification - A3 - Pieces of Instruction

Building in compliance with the following -

T4.2 - Safety Distance.	T4.23 - Stairways to comply.
T4.4 - Ductile Connections.	T4.24 - Fire escape routes to be in an emergency route.
T4.5 - Fire Performance.	T4.25 - Fire escape routes to be in an emergency route.
T4.6 - Fire resistance to comply.	T4.26 - Lobbies, Fire and Ventilation.
T4.7 - Fire stability of structural elements and components.	T4.27 - Marking and sign posting.
T4.8 - Partition walls and partitions.	(SANS 1186.1, 1186.3, 1186.5, 1464.22)
T4.9 - Provision of structural elements and components.	T4.30 - Provision of emergency lighting.
T4.10 - Partition walls and partitions.	T4.31 - Fire detection and alarm system.
T4.11 - Collapsing to comply.	T4.32 - Provision & maintenance of the fire fighting.
T4.12 - Collapsing to comply.	T4.33 - Water recirculation for fire fighting purposes.
T4.13 - Collapsing to comply.	T4.34 - 30m Fire Hose Reels.
T4.14 - Wall finishes to comply.	(SANS S4.3, 1010.5, 10400 W, 1475.2)
T4.15 - External Doors.	T4.35 - Fire hydrants (SANS 1128.1, 1128.2)
T4.16 - Wall finishes to comply.	T4.36 - Provide fire extinguishers (Bkg DCF type)
T4.17 - External Doors.	(SANS 1128.1, 1128.2)
T4.18 - Wall finishes to comply.	T4.37 - Access for fire fighting and Rescue services.
T4.19 - Emergency Routes.	T4.54 - Access for Fire fighting and Rescue services.
T4.20 - Dimension of components of escape routes.	T4.55 - Building materials (SANS 10177.5)
T4.21 - Width of escape routes.	

NOTES:

- Do not scale from this drawing.
- All dimensions in mm unless otherwise stated.
- This drawing is to be read in conjunction with all relevant Architectural, Civil/Structural and Services Engineers drawings and specifications.

GENERAL

All work to be done in accordance with SANS 10400. The contractor (including sub-contractor/s) shall be familiar with the contents of SANS 10400 and related SANS 2007 standards.

All levels, dimensions, gradients and slopes to be checked on site prior to construction and any discrepancies to be reported to the architect immediately.

STRUCTURAL DESIGN

Structural design shall be in accordance with structural engineers design.

All concrete columns, foundations, beams, lintels, wall slabs, structural steel and/or timber structure, according to structural engineer's design.

SITE OPERATIONS

Provision of site facilities during construction to comply with the detailed requirements of SANS 10400-D.

FOUNDATIONS

All foundations according to structural engineers design & to comply with SANS 10400 Part B and Part T.

All foundations, comparison and sub surface drainage according to civil engineer's detail, unless otherwise specified in Form 1.

FLOORS

Floors to comply with SANS 10400 - J.

Concrete surface level to engineer's detail on min 0.25 micron DPM on min 50mm sand bedding on min 150 hardcore compacted filling or as per engineer's detail.

Exterior slabs to be at min 1 degree fall away from the building.

WALLS

Structural strength and stability of walls to structural engineers approval.

All clay masonry or concrete block walls to be constructed in standard size clay bricks or standard size concrete blocks. All walls to be built strictly in accordance with the National Building Regulations (SANS 10400), in particular Part K (Walls), and any other relevant standards.

Water penetration through walls to comply with the detailed requirements of 10400-K. DPC's vertical and horizontal, to all openings.

OPENINGS

All openings exceeding 1000mm to be to engineer's detail.

Lintels to be manufacturer's specification. All concrete form work to be checked and approved by structural engineer prior to casting.

Damp proof course to be installed one course above slab level, also around all doors and window frames, and above beams and lintels.

WINDOWS & DOORS

Aluminium framed windows and external doors as sized on drawings.

All glazing to comply with requirements of SANS 10400 Part N and SANS 10137 and SANS 10400 Part XA.

Glazing exceeding 1m² or less than 500mm above FFL to be SABS approved safety glazing.

Glazing exceeding 1m² or less than 500mm above FFL to be SABS approved safety glazing.

Water penetration through walls to comply with the detailed requirements of 10400-K. DPC's vertical and horizontal, to all openings.

STAIRS

All concrete and steel stairs to engineer's detail.

All stairs to comply with the requirements of SANS 10400 Part B, Part M and Part T.

The going and width of any tread shall not be less than 250mm and riser shall not exceed 200mm.

BALUSTRADES

All horizontal and balustrades should comply with the requirements of SANS 10400 Part M and Part B.

Any flights of steps which contain more than 3no. risers shall have protection on both sides provided by a wall, screen balustrade which shall be no less than 1m high and extending above the pitch line of the stairs that permits the passage of a 100mm" ball.

ROOFS

Roof coverings, waterproofing systems, and flat roofs, gutters and downpipes to be in accordance with manufacturer's specification on steel structure or as per engineer's detail.

All roofs waterproofed and insulated to specialist details including gutters and downpipes as required.

Water from all roofs, all surface water to be carried away from the building via storm water drains or channels leading to storm waterways or municipal storm water system.

DRAINAGE & STORM WATER

Drainage system to comply with the detailed requirements of SANS 10400-D.

Stormwater to be discharged to the existing roof area remaining the same.

HEALTH & PUBLIC SAFETY

Changes in level, ramps and driveways to comply with the detailed requirements of SANS 10400-D.

Store rooms and disconnecting lockers to all toilets to be independently and adequately lit and ventilated in compliance with SANS 10400-D.

The means for providing facilities for people with disabilities is in accordance with SANS 10400-D.

FIRE PROTECTION

All fire design by special consultant. All fire equipment, positioning and protection to be in accordance with the fire engineers design unless otherwise specified in Form 1.

Changes from Fire consultant showing positions of all hydrants, hoses, reels, extinguishers etc.

All fire escape routes, compartments and stairs to comply with SANS 10400 Part M, Part T and Part W.

Access and escape doors on any emergency route should be fitted with locking devices approved by local authority.

Structural elements and components to comply with 14.7.

LIGHTING & VENTILATION

Building ventilation to comply with SANS 10400 Part O.

Mechanical ventilation designed by mechanical engineer.

PLUMBING

All in accordance with NBR with SABS approved materials to be used throughout. All waste pipes to be a min of 40mm.

All sanitary ware including WCs, baths, showers and whibs, and tap fittings to be standard and specified in tender package.

MATERIALS & FINISHES

Material and finish as indicated on the drawings, and/or finishes schedules.

SANS 10400 XA

Calculations Provided.