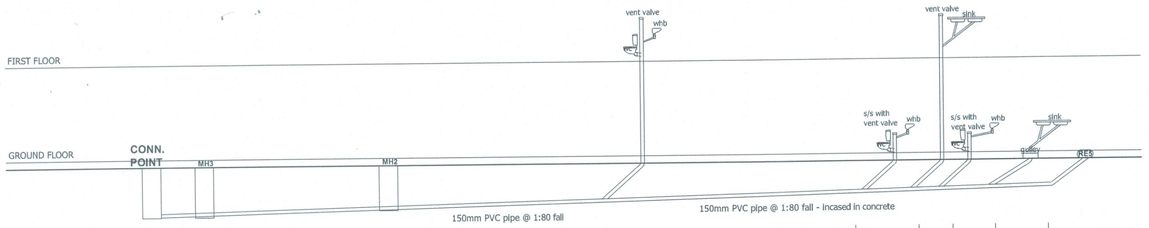
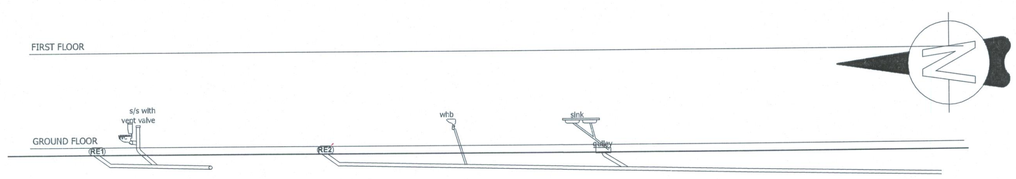


cover level	203 400	203 400	203 400	203 400	203 400	203 400	203 400	203 400	203 400	203 000	203 027	203 035	203 046	203 068				
invert level	202 500	202 521	202 801	202 888														
depth	900	879	599	512						400	373	365	354	332				
distance	1 700	22 410	7 000	9 010						2 210	650	900	1 770					
gradient	1:80	1:80	1:80	1:80						1:80	1:80	1:80	1:80					

RUN B2

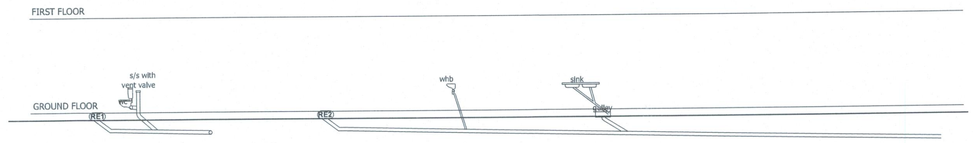
RUN B1



cover level	203 400	203 400	203 400	203 400	203 400	203 400	203 400	203 400	203 400									
invert level	203 211	203 195	203 178	203 178	203 178	203 132	203 059	202 909										
depth	189	205	222	222	268	341	491											
distance	1 350	1 390	3 700	5 900	12 000													
gradient	1:80	1:80	1:80	1:80	1:80													

RUN A1

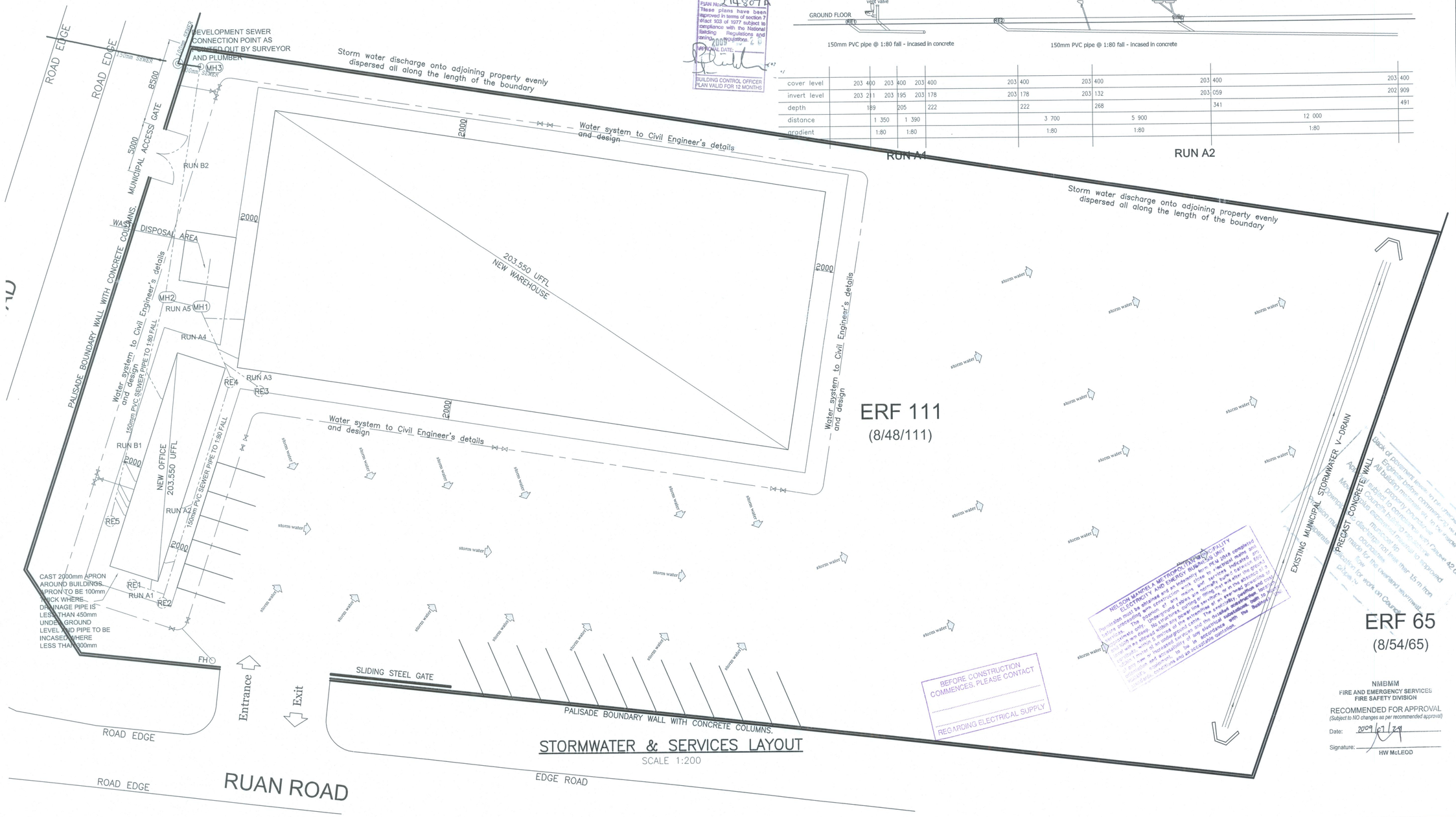
RUN A2



cover level	203 400	203 400	203 400	203 400	203 400	203 400	203 400	203 400	203 400									
invert level	203 211	203 195	203 178	203 178	203 178	203 132	203 059	202 909										
depth	189	205	222	222	268	341	491											
distance	1 350	1 390	3 700	5 900	12 000													
gradient	1:80	1:80	1:80	1:80	1:80													

RUN A4

RUN A2



STORMWATER & SERVICES LAYOUT
SCALE 1:200

NELSON MANDELA METROPOLITAN MUNICIPALITY
BUILDING INSPECTORATE DIVISION
PLAN No. 274807A
These plans have been approved in terms of section 7 of act 103 of 1977 subject to compliance with the National Building Regulations and bylaws
APPROVAL DATE: 2009-12-08
BUILDING CONTROL OFFICER
PLAN VALID FOR 12 MONTHS

NELSON MANDELA METROPOLITAN MUNICIPALITY
ELECTRICITY AND ENERGY BUSINESS UNIT
Persons must be aware that electricity is a hazardous form of energy. Before proceeding with any construction work, it is the responsibility of the contractor to ensure that no electrical mains are buried in the area. Underground cables are normally buried between 400mm and 1m deep. Underground cables may also be encountered in any excavation. Any mains cable found during construction must be treated as live and should be reported immediately to the Electricity Business Unit. Failure to do so may result in serious injury or death. Damaged cables must be repaired by a suitably qualified electrician. Any damage to municipal equipment will be charged to the contractor responsible. Any new or upgraded electrical supply will be subject to the conditions of supply of the Nelmetro Electricity Business Unit. The contractor is responsible for the protection of municipal equipment on his site. Contact the Electricity Business Unit for an electrical quotation. Contact the Electricity Business Unit for an electrical quotation. Contact the Electricity Business Unit for an electrical connection and all acceptance conditions.

BEFORE CONSTRUCTION COMMENCES, PLEASE CONTACT
.....
.....
REGARDING ELECTRICAL SUPPLY

NMBMM
FIRE AND EMERGENCY SERVICES
FIRE SAFETY DIVISION
RECOMMENDED FOR APPROVAL
(Subject to NO changes as per recommended approval)
Date: 2009/07/29
Signature: HW McLEOD

Back of pavement levels to be checked on site by Engineer before commencement of work. All building materials and rubble must be kept off the property boundary. Any damage to Council property caused by the owner/contractor must be repaired to Council's satisfaction. Minimum 42 dB Rw sound insulation to be provided to all dwelling units. Downpipes must be at least 1.5 m from boundaries. Max. gradient of 1:12 for the underground stormwater drainage. Permission must be obtained from Council for any encroachment onto Council's property. Provision must be made for the overland stormwater flow. Permission must be obtained from Council for work on Council's property.

This drawing is the property of ANDERSON VOGT & PARTNERS and is furnished on the expressed understanding that no part of it shall be reproduced, copied, lent, or disposed of to others, directly or indirectly, nor used for any purposed other than that for which it is specifically issued.

Hierdie tekening is die eiendom van ANDERSON VOGT & VENNOTE en dit word besis verstaan dat geen gedeelte daarvan gereproduseer gekopiëre, uitgeleen of van die hand gesit word aan ander, direk of indirek, of enige ander doel gebruik as waarvoor dit spesifiek uitgereik word nie.

- All dimsensions are given in millimeters, unless otherwise specified.
- Do not scale drawings.
- All dimensions to be checked on site before construction commences.
- Any discrepancies to be reported to designer to be clarified.
- Contractors to adhere to all local authority's regulations and requirements.
- All work to be done in accordance with the National Building Regulations and Building Act, Act SABS 400-1990.
- The owner and his contractor takes full responsibility for the execution of building work from the plans as approved by the NMBM.

CONSTRUCTION NOTES:

- Contractor to keep a full set of approved drawings on site.
- The contractor is resposible for the correct setting out of the building on site with particular reference to boundaries and building lines and verification of all levels.
- The designer should be notified before any alterations to structural elements are made.
- Errors, discrepancies or ommisions are to be reported to the designer immediately for clarification before work is undertaken.
- All drawings must be read in conjunction with engineer's or manufacturer's drawings where applicable.

SIGNATURES FOR MUNICIPAL SUBMISSION:

SEE ATTACHED LETTER OF AUTHORITY
Owner's signature

Designer's signature

DRAWN BY:
Monica Jones (Nee Bitzer)

SACAP REG. NO.	REGISTRATION CATEGORY:
7528	Prof. Arch.

MUNICIPAL SUBMISSION INFORMATION:

area of erf:	7 261m²
existing area:	0
existing coverage:	*0*
demolished area:	0
demolished coverage:	*0%*
New area (warehouse):	1 446m²
new coverage:	*19.9%*
New area (offices):	220m²
new coverage:	*3%*
total area:	1 666m²
total coverage:	*22.9%*
new garages:	N/A
new bathrooms:	2

REV	AMENDMENTS	INITIAL	DATE
P	PRE APPROVAL	AL	12-01-09

Anderson Vogt
& Partners/Vennote
Consulting Engineers/Raadgewende Ingenieurs

1 Keymer Road
Eastleigh
EDENVALE
1610
Tel: (011) 452-2838

43 Davenport Road
Glenwood
DURBAN
4001
Tel: (031) 201-6347

94 Victoria Street
DUNDEE
3000
Tel: (034) 212-3142

1/201 Poplar Ave
MEIRIATURA
3935
Tel: (033) 550-0841

Unit 25
Oldfield Business Park
23 Oldfield Road
Pietermaritzburg
3204
Tel: (033) 386-0863

SCALE	AS INDICATED
DESIGN	Date
DRAWN ANDRE LIEBENBERG	Date
CHECKED	Date
Pr Eng	Date

CLIENT
South Bakels (PTY) LTD

PROJECT
New Storage Facility and offices on Erf 111 (of Portion48 of Farm Kuyga no.8), Kuyga, Port Elizabeth

DRAWING TITLE
Stormwater & Services Layout

Job No.	Drawing No.	Rev.
6469	A–7	P