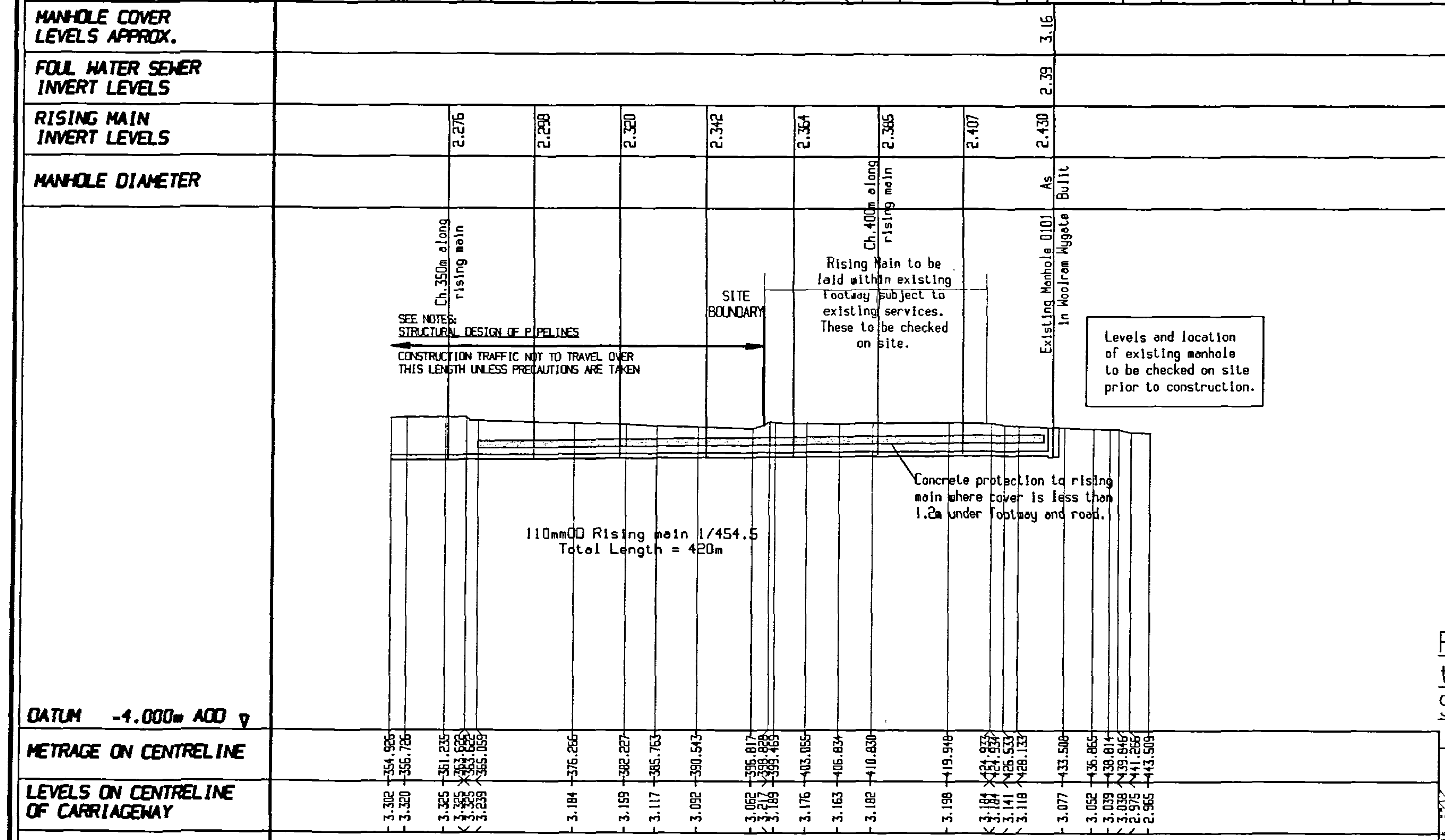
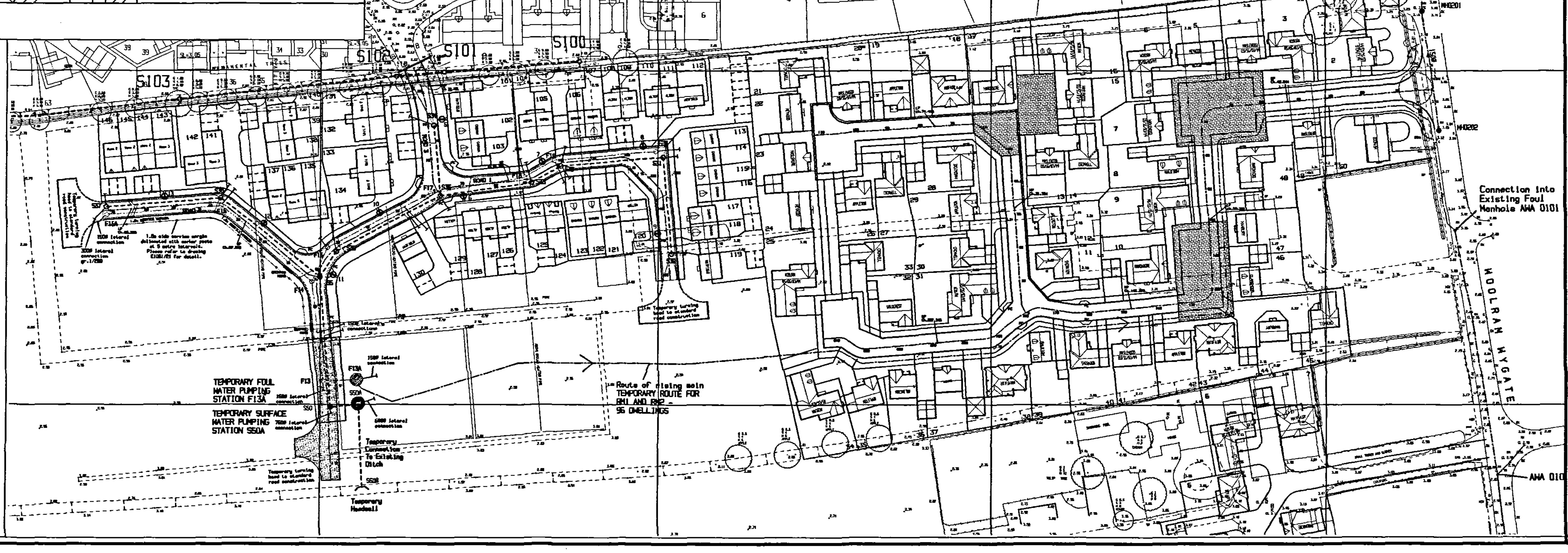
MANHOLE COVER LEVELS APPROX.
FOUL WATER SEWER INVERT LEVELS
RISING MAIN INVERT LEVEL
MANHOLE DIAMETER
3.00
-0.401
-0.450
1500 1/200 L=10m
1200
1800
-1.035
1.285
1.535
1.557
1.579
1.600
1.622
1.644
1.666
1.688
1.709
1.731
1.753
1.775
1.796
1.818
1.840
1.862
1.884
1.905
1.927
1.949
1.971
1.993
2.015
2.036
2.058
2.080
2.102
2.124
2.145
2.167
2.189
2.201
2.233
2.254
F13 Ch=0.0
F13A Temporary Pumping Station Wet Well Ch=10.0
Ch.0m along rising main
Ch.50m along rising main
Ch.100m along rising main
Ch.150m along rising main
Ch.200m along rising main
Ch.250m along rising main
Ch.300m along rising main
Ch.340m along rising main
For General Arrangement and Specification of temporary Foul Water Pumping Station, see drawing E1081/33
SEE NOTES: STRUCTURAL DESIGN OF PIPELINES
CONSTRUCTION TRAFFIC NOT TO TRAVEL OVER THIS LENGTH UNLESS PRECAUTIONS ARE TAKEN
1/20
Rising Main IL 1.035 from Pumping Station
110mmOD Rising main 1/454.5 Total Length = 420m
Rising Main 110mm Outside Diameter PE SDR11 pressure pipe with a 90mm internal diameter Length - 420m Gradient - 10m at 1/20 404m at 1/454.5
Concrete protection to rising main where cover is to be less than 1.2m under footway.
ROUTE OF TEMPORARY RISING MAIN FOR RM1 AND RM2
Datum: -4.000M AOD
EXISTING METRAGE
EXISTING LEVELS


MANHOLE COVER LEVELS APPROX.
FOUL WATER SEWER INVERT LEVELS
RISING MAIN INVERT LEVELS
MANHOLE DIAMETER
3.16
2.39
2.276
2.298
2.320
2.342
2.364
2.385
2.407
2.430
Ch.350m along rising main
Ch.400m along rising main
Existing Manhole 0101 In Woolram Wygate As Built
SEE NOTES: STRUCTURAL DESIGN OF PIPELINES
CONSTRUCTION TRAFFIC NOT TO TRAVEL OVER THIS LENGTH UNLESS PRECAUTIONS ARE TAKEN
SITE BOUNDARY
Rising Main to be laid within existing footway subject to existing services. These to be checked on site.
Levels and location of existing manhole to be checked on site prior to construction.
Concrete protection to rising main where cover is less than 1.2m under footway and road.
110mmOD Rising main 1/454.5 Total Length = 420m
DATUM -4.000m AOD
METRAGE ON CENTRELINE
LEVELS ON CENTRELINE OF CARRIAGEWAY

Plan showing route of temporary rising main
to Existing Manhole in Woolram Wygate
SCALE 1/1000


S103
S102
S101
S100
TEMPORARY FOUL WATER PUMPING STATION F13A
TEMPORARY SURFACE WATER PUMPING STATION S60A
Route of rising main TEMPORARY ROUTE FOR RM1 AND RM2 - 95 DWELLINGS
Connection into Existing Foul Manhole AWA 0101
AWA 0101
WOOLRAM WYGATE

SHDC
Planning & Development
27 JUL 2007
Ref: 1030/07

Please refer to drawing E1081/37 for setting out of rising main.

STRUCTURAL DESIGN OF PIPELINES

Pipelines have been designed based on Simplified Tables of External Loads on Buried Pipeline. Pipes under Main Roads With the depth of cover related to existing site levels.

The contractor shall ensure that overload of the pipes does not occur during construction. The following precautions shall be adopted.

1/ Prohibit the movement of construction plant over that part of the pipeline where overloading would occur.

2/ Confine the passage of such plant to suitably bridged crossing points.

3/ Temporarily deposit (or leave in place) fill over that part of the pipeline and adopt precautions when the fill is finally removed.

4/ Restrict the load of vehicles to a safe load.

5/ Redesign the affected part of the pipeline to carry the additional external load.

1. All foul water sewers shall be Extra Strength Claywere to BS EN 295-1:1991.
2. All 150-300mm surface water sewers shall be Extra Strength Claywere to BS EN 295-1:1991. All surface water sewers of 375mm or greater shall be Concrete Class 120 to BS 5911-1 (BS EN 1916:2002)
3. All pipe bedding shall be Class S, (FM 2.2), unless otherwise stated.

Rev. No.	REVISION	Date	Drawn By	Checked By
A	Temporary foul water pumping station proposed. Rising main amended to suit.	Nov 05	NJB	HGC
B	Rising main gradient amended to avoid clash with storm water sewer from RM2. Rising main diatmeter amended to 110mm outside diameter.	11.1.06	NJB	
C	Concrete protection shown, levels added along rising main	6.3.06	NJB	HGC

Written dimensions to be taken. Do not scale off the drawing.

Any discrepancies, written or scaled, should be brought to the attention of the engineer immediately.

This drawing to be read in conjunction with the relevant Bills of Quantities and Local Authority Specification.

CDM NOTE: The design has been undertaken as far as possible to avoid risks to health and safety or to reduce and control the effects of any unavoidable risks.

All relevant information identifying the unavoidable risks has been passed to the planning supervisor for inclusion in the Health & Safety plan.

The Health & Safety plan will be issued by the planning supervisor with these drawings.

WORMALD, BURROWS PARTNERSHIP

Civil Engineering Consultants
12a & 14a Hitchin Street, Tel 01767 317244
Biggleswade, Beds SG18 8AX, U.K. Fax 315434

Project

Proposed Development at,
Wygate South, Spalding, Lincolnshire

Drawing Description

Longitudinal Section
Of Temporary Rising Main

Client

Allison Homes Eastern Ltd
Holland Place
Wardentree Park
Pinchbeck
Spalding
Lincs, PE11 3ZN

Client Drawing Number

A027/203/02 C

Drawn By NJB
Date Oct.05

Scale
H 1:500
V 1:100

Engineering Drawing Number

E1081/20/C

Checked By HGC
Date Oct.05

REGISTERED COMPANY ISO 9001:1994 CERT NO.