GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

2. ALL LEVELS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.

3. DO NOT SCALE FROM THE DRAWING. USE FIGURED DIMENSIONS ONLY.

4. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.

5. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.

6. FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER (VALE CONSULTANCY) IMMEDIATELY.

7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH VALE DRAWING No. 10511/500

TYPICAL MANHOLE DETAIL TYPE 2

675x675mm CLEAR OPENING COVER COMPLYING WITH BS EN 124 AND BS 7903 SEE CLAUSE E2.32

MORTAR BEDDING AND HAUNCHING TO COVER AND FRAME TO CLAUSE E6.7

MINIMUM 2 COURSES OF CLASS B ENGINEERING BRICKS AND PRECAST CONCRETE COVER FRAME SEATING RINGS

MINIMUM CLEAR ACCESS 600mm

PRECAST CONCRETE MANHOLE SECTIONS AND COVER SLAB TO BE BEDDED WITH MORTAR, PLASTOMETRIC OR ELASTOMETRIC SEAL CONFORMING TO BS EN 1917 AND BS 5911-3 SEE CLAUSE E2.29

150mm CONCRETE SURROUND

IN-SITU CONCRETE TO BE GEN3 (DESIGNED TO BRE SPECIAL DIGEST 1 CONCRETE IN AGGRESSIVE GROUND)

CHAMBER HEIGHT (NOT LESS THAN 900mm)

HIGH-STRENGTH CONCRETE TOPPING TO BE BROUGHT UP TO A DENSE, SMOOTH FACE, NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS (MINIMUM THICKNESS 20mm)

BENCHING SLOPE TO BE 1:10 TO 1:30

THE BOTTOM PRECAST MANHOLE RING TO BE BUILT INTO BASE CONCRETE MINIMUM 75mm

CONSTRUCTION JOINT

DISTANCE BETWEEN TOP OF PIPE AND UNDERSIDE OF PRECAST SECTION TO BE MINIMUM 50mm TO MAXIMUM 300mm

SELF CLEANING TOE HOLES TO BE PROVIDED WHERE CHANNEL EXCEEDS 600mm WIDE

225mm TO UNDERSIDE OF CHANNEL

INVERTS TO BE FORMED USING CHANNEL PIPES
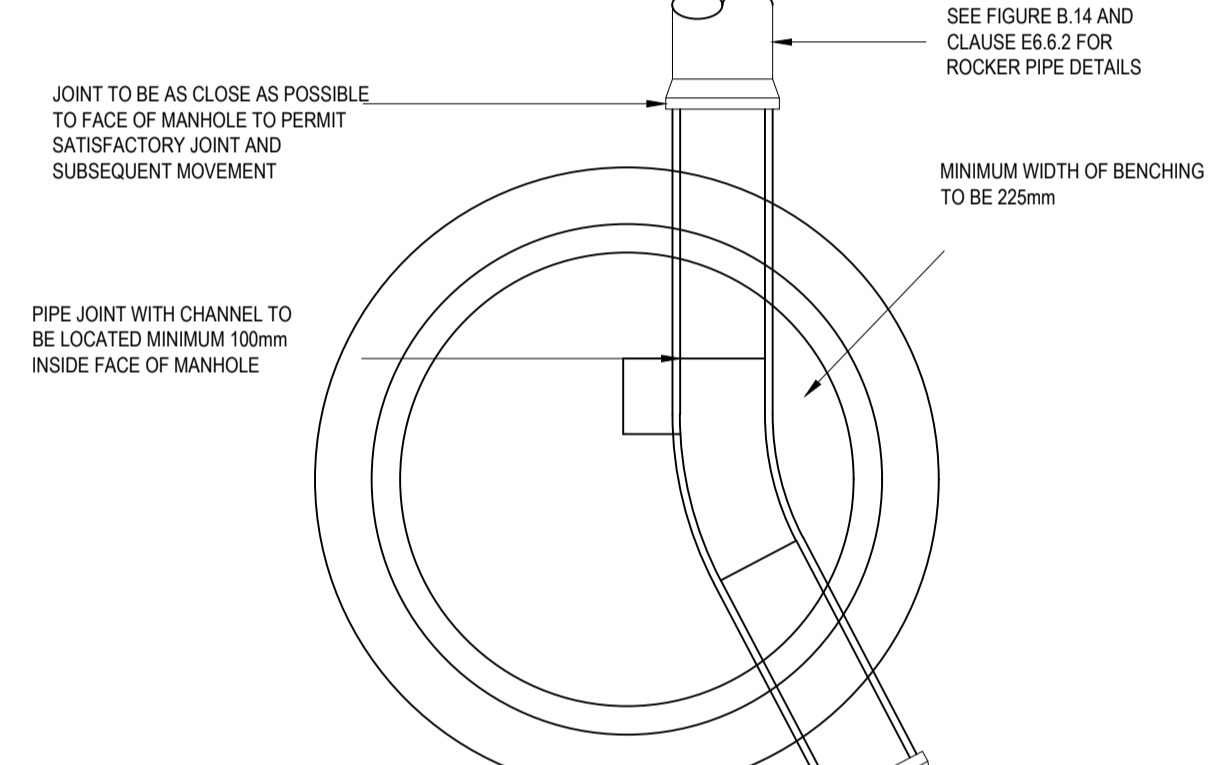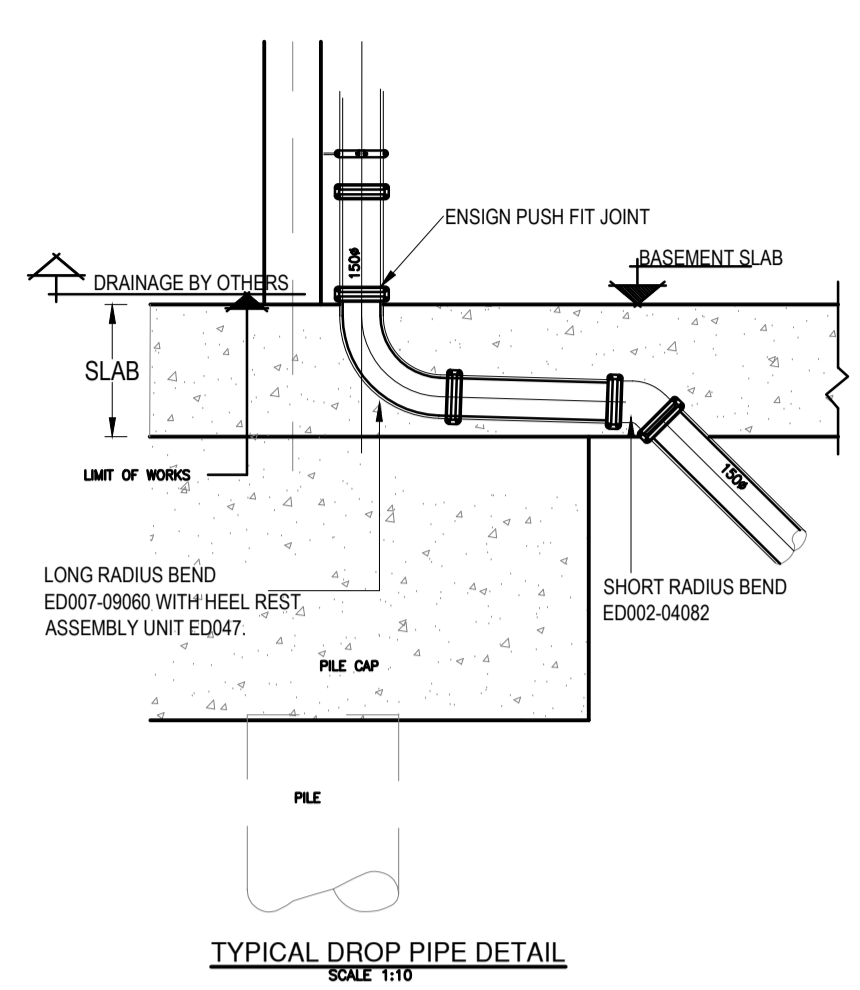
(REFER TO FIG. B.12 OF SEWERS FOR ADOPTION 7th ED) (MAXIMUM DEPTH FROM COVER TO SOFFIT LEVEL OF PIPE - 3.0m)

SCALE 1:20

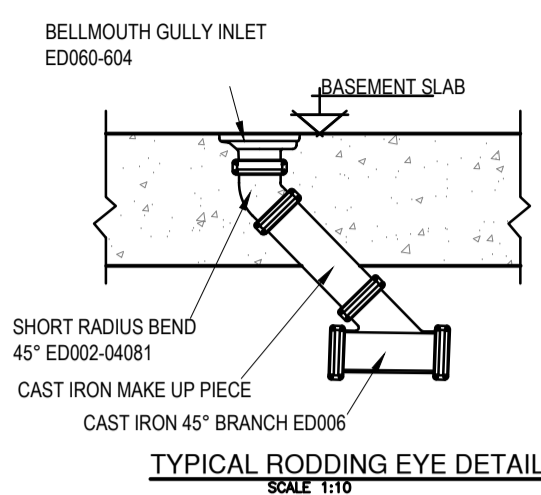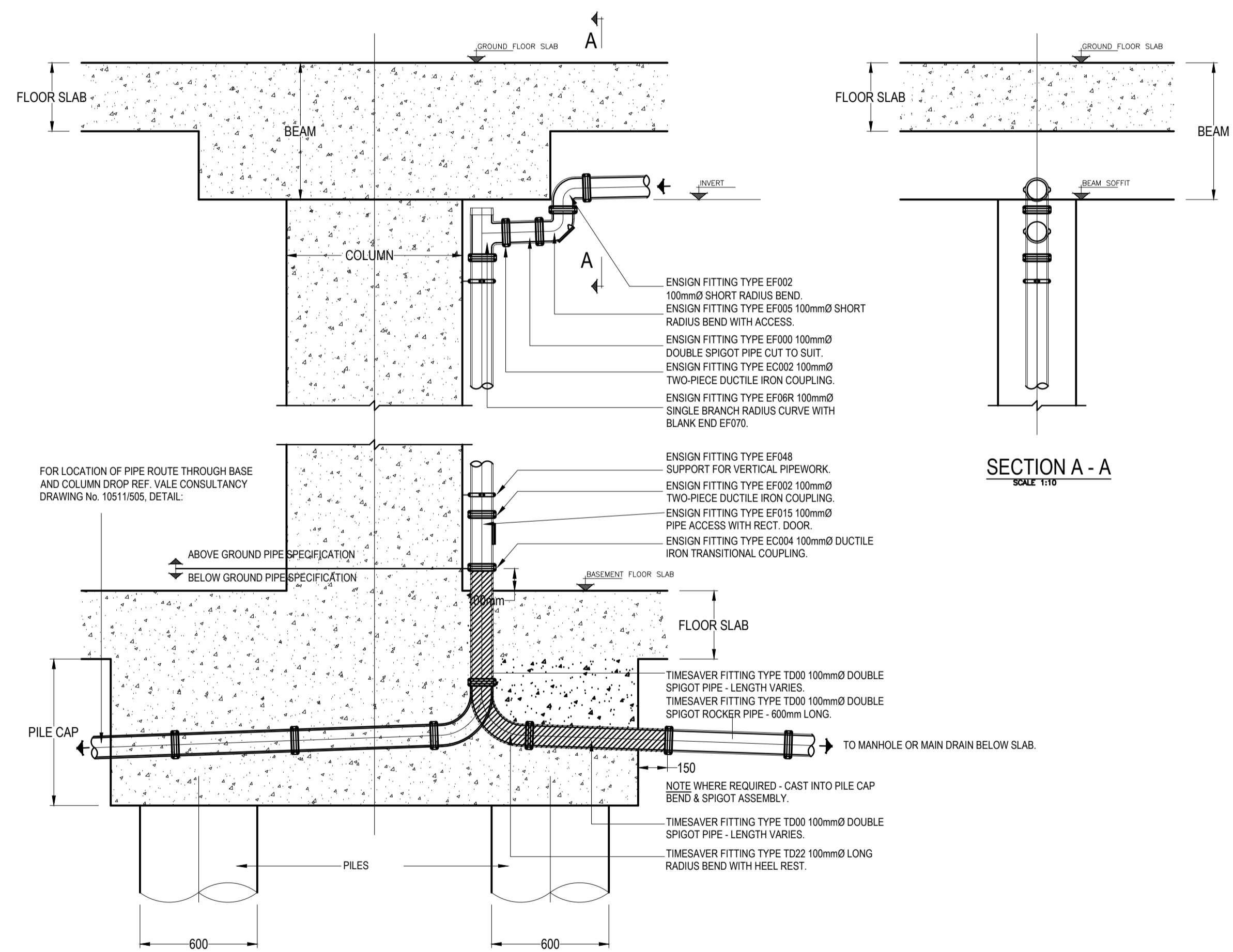## TYPICAL MANHOLE DETAIL TYPE 2 PLAN

SEE FIGURE B.14 AND CLAUSE E6.6.2 FOR ROCKER PIPE DETAILS

JOINT TO BE AS CLOSE AS POSSIBLE TO FACE OF MANHOLE TO PERMIT SATISFACTORY JOINT AND SUBSEQUENT MOVEMENT

MINIMUM WIDTH OF BENCHING TO BE 225mm

PIPE JOINT WITH CHANNEL TO BE LOCATED MINIMUM 100mm INSIDE FACE OF MANHOLE

SCALE 1:20

TYPICAL DROP PIPE DETAIL
SCALE 1:10

ENSIGN PUSH FIT JOINT

DRAINAGE BY OTHERS

BASEMENT SLAB

SLAB

LIMIT OF WORKS

LONG RADIUS BEND ED007-09060 WITH HEEL REST, ASSEMBLY UNIT ED047.

SHORT RADIUS BEND ED002-04082

PILE CAP

PILE

TYPICAL RODDING EYE DETAIL
SCALE 1:10

BELLMOUTH GULLY INLET ED060-604

BASEMENT SLAB

SHORT RADIUS BEND 45° ED002-04081

CAST IRON MAKE UP PIECE

CAST IRON 45° BRANCH ED006

SECTION A - A
SCALE 1:10

GROUND_FLOOR_SLAB

FLOOR SLAB

BEAM

BEAM_SOFFIT

TYPICAL DETAIL OF COLUMN SOIL PIPE
SCALE 1:10

GROUND_FLOOR_SLAB

FLOOR SLAB

BEAM

COLUMN

INVERT

A

ENSIGN FITTING TYPE EF002 100mmØ SHORT RADIUS BEND.
ENSIGN FITTING TYPE EF005 100mmØ SHORT RADIUS BEND WITH ACCESS.

ENSIGN FITTING TYPE EF000 100mmØ DOUBLE SPIGOT PIPE CUT TO SUIT.
ENSIGN FITTING TYPE EC002 100mmØ TWO-PIECE DUCTILE IRON COUPLING.

ENSIGN FITTING TYPE EF06R 100mmØ SINGLE BRANCH RADIUS CURVE WITH BLANK END EF070.

ENSIGN FITTING TYPE EF048 SUPPORT FOR VERTICAL PIPEWORK.
ENSIGN FITTING TYPE EF002 100mmØ TWO-PIECE DUCTILE IRON COUPLING.
ENSIGN FITTING TYPE EF015 100mmØ PIPE ACCESS WITH RECT. DOOR.
ENSIGN FITTING TYPE EC004 100mmØ DUCTILE IRON TRANSITIONAL COUPLING.

FOR LOCATION OF PIPE ROUTE THROUGH BASE AND COLUMN DROP REF. VALE CONSULTANCY DRAWING No. 10511/505, DETAIL:

ABOVE GROUND PIPE SPECIFICATION
BELOW GROUND PIPE SPECIFICATION

BASEMENT_FLOOR_SLAB

FLOOR SLAB

PILE CAP

TIMESAVER FITTING TYPE TD00 100mmØ DOUBLE SPIGOT PIPE - LENGTH VARIES.
TIMESAVER FITTING TYPE TD00 100mmØ DOUBLE SPIGOT ROCKER PIPE - 600mm LONG.

TO MANHOLE OR MAIN DRAIN BELOW SLAB.

150

NOTE WHERE REQUIRED - CAST INTO PILE CAP BEND & SPIGOT ASSEMBLY.

TIMESAVER FITTING TYPE TD00 100mmØ DOUBLE SPIGOT PIPE - LENGTH VARIES.
TIMESAVER FITTING TYPE TD22 100mmØ LONG RADIUS BEND WITH HEEL REST.

PILES

600   600

Issue for SAB Approval

01	RGP	LR	MJ	11.03 2020	SAB Approval Issue
rev.	drawn	chkd.	approvd.	date	description

Client

INSPIRE DESIGN

Project

RESIDENTIAL DEVELOPMENT FORMER GLAMORGAN HOTEL PORTHCAWL

Title

DRAINAGE CONSTRUCTION DETAILS SHEET 2

Vale Consultancy
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date	drawn	checked		approved	
11.03.20	RGP	JW	11.03.20	LR	11.03.20

scale		drg. no.	
AS SHOWN		10511	

status	drg. no.	rev.
P	10511/504	01

10 0 10 20 50 100mm NATURAL SCALE

A1