

NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM.
3. DO NOT SCALE FROM THIS DRAWING.
4. FOR DETAILS OF CULVERT & DIFFUSER REFER TO DWG. No. WECROF.102
5. PIPE PIPE Ø DD 1600 TO 1480 - FROM CHANGE -2m TO 10m WHERE PIPE IS ABOVE MWS CONCRETE COLLARS ARE NOT PROVIDED. PIPE PIPE ONLY WITH GRANULAR MATERIAL BED AND SURROUND.

AS BUILT

K.	SDM	SR	R/E	25.09.02	MINOR TEXT/COORDINATE CHANGES
J. <td>SDM <td>SR <td>R/E <td>27.08.02 <td>AS BUILT</td> </td></td></td></td>	SDM <td>SR <td>R/E <td>27.08.02 <td>AS BUILT</td> </td></td></td>	SR <td>R/E <td>27.08.02 <td>AS BUILT</td> </td></td>	R/E <td>27.08.02 <td>AS BUILT</td> </td>	27.08.02 <td>AS BUILT</td>	AS BUILT
I. <td>KDM <td>SR <td>R/E <td>21.03.02 <td>LEVELS REVISED FOLLOWING SURVEY</td> </td></td></td></td>	KDM <td>SR <td>R/E <td>21.03.02 <td>LEVELS REVISED FOLLOWING SURVEY</td> </td></td></td>	SR <td>R/E <td>21.03.02 <td>LEVELS REVISED FOLLOWING SURVEY</td> </td></td>	R/E <td>21.03.02 <td>LEVELS REVISED FOLLOWING SURVEY</td> </td>	21.03.02 <td>LEVELS REVISED FOLLOWING SURVEY</td>	LEVELS REVISED FOLLOWING SURVEY
H. <td>SDM <td>SR <td>R/E <td>21.03.02 <td>CHANGE OF STEEL PIPE ADJUSTED</td> </td></td></td></td>	SDM <td>SR <td>R/E <td>21.03.02 <td>CHANGE OF STEEL PIPE ADJUSTED</td> </td></td></td>	SR <td>R/E <td>21.03.02 <td>CHANGE OF STEEL PIPE ADJUSTED</td> </td></td>	R/E <td>21.03.02 <td>CHANGE OF STEEL PIPE ADJUSTED</td> </td>	21.03.02 <td>CHANGE OF STEEL PIPE ADJUSTED</td>	CHANGE OF STEEL PIPE ADJUSTED
G. <td>SDM <td>SR <td>R/E <td>23.02.02 <td>CHANGE 800.42 I. ADJUSTED</td> </td></td></td></td>	SDM <td>SR <td>R/E <td>23.02.02 <td>CHANGE 800.42 I. ADJUSTED</td> </td></td></td>	SR <td>R/E <td>23.02.02 <td>CHANGE 800.42 I. ADJUSTED</td> </td></td>	R/E <td>23.02.02 <td>CHANGE 800.42 I. ADJUSTED</td> </td>	23.02.02 <td>CHANGE 800.42 I. ADJUSTED</td>	CHANGE 800.42 I. ADJUSTED
F. <td>MT <td>SR <td>R/E <td>18.02.02 <td>FOR CONSTRUCTION</td> </td></td></td></td>	MT <td>SR <td>R/E <td>18.02.02 <td>FOR CONSTRUCTION</td> </td></td></td>	SR <td>R/E <td>18.02.02 <td>FOR CONSTRUCTION</td> </td></td>	R/E <td>18.02.02 <td>FOR CONSTRUCTION</td> </td>	18.02.02 <td>FOR CONSTRUCTION</td>	FOR CONSTRUCTION
E. <td>MT <td>SR <td>R/E <td>15.11.01 <td>FOR APPROVAL</td> </td></td></td></td>	MT <td>SR <td>R/E <td>15.11.01 <td>FOR APPROVAL</td> </td></td></td>	SR <td>R/E <td>15.11.01 <td>FOR APPROVAL</td> </td></td>	R/E <td>15.11.01 <td>FOR APPROVAL</td> </td>	15.11.01 <td>FOR APPROVAL</td>	FOR APPROVAL
D. <td>HE <td>SR <td>RE <td>04.9.01 <td>CHANGE OF STEEL PIPE ALTERED</td> </td></td></td></td>	HE <td>SR <td>RE <td>04.9.01 <td>CHANGE OF STEEL PIPE ALTERED</td> </td></td></td>	SR <td>RE <td>04.9.01 <td>CHANGE OF STEEL PIPE ALTERED</td> </td></td>	RE <td>04.9.01 <td>CHANGE OF STEEL PIPE ALTERED</td> </td>	04.9.01 <td>CHANGE OF STEEL PIPE ALTERED</td>	CHANGE OF STEEL PIPE ALTERED
C. <td>HB <td>SR <td>DCL <td>28.8.01 <td>LONG SECTION AMENDED</td> </td></td></td></td>	HB <td>SR <td>DCL <td>28.8.01 <td>LONG SECTION AMENDED</td> </td></td></td>	SR <td>DCL <td>28.8.01 <td>LONG SECTION AMENDED</td> </td></td>	DCL <td>28.8.01 <td>LONG SECTION AMENDED</td> </td>	28.8.01 <td>LONG SECTION AMENDED</td>	LONG SECTION AMENDED
B. <td>WMC <td>.</td> <td>.</td> <td>23.7.01 <td>FOR CONSTRUCTION</td> </td></td>	WMC <td>.</td> <td>.</td> <td>23.7.01 <td>FOR CONSTRUCTION</td> </td>	.	.	23.7.01 <td>FOR CONSTRUCTION</td>	FOR CONSTRUCTION
A. <td>TC <td>JC <td>R/E <td>3.3.00 <td>INVERT AND G. RAISED AT CHD</td> </td></td></td></td>	TC <td>JC <td>R/E <td>3.3.00 <td>INVERT AND G. RAISED AT CHD</td> </td></td></td>	JC <td>R/E <td>3.3.00 <td>INVERT AND G. RAISED AT CHD</td> </td></td>	R/E <td>3.3.00 <td>INVERT AND G. RAISED AT CHD</td> </td>	3.3.00 <td>INVERT AND G. RAISED AT CHD</td>	INVERT AND G. RAISED AT CHD

Client
CONSORT JOINT VENTURE - CIVILS GROUP
 CARRIGRENAN CIVIL JV EEC

Contractor
Van Oord ACZ



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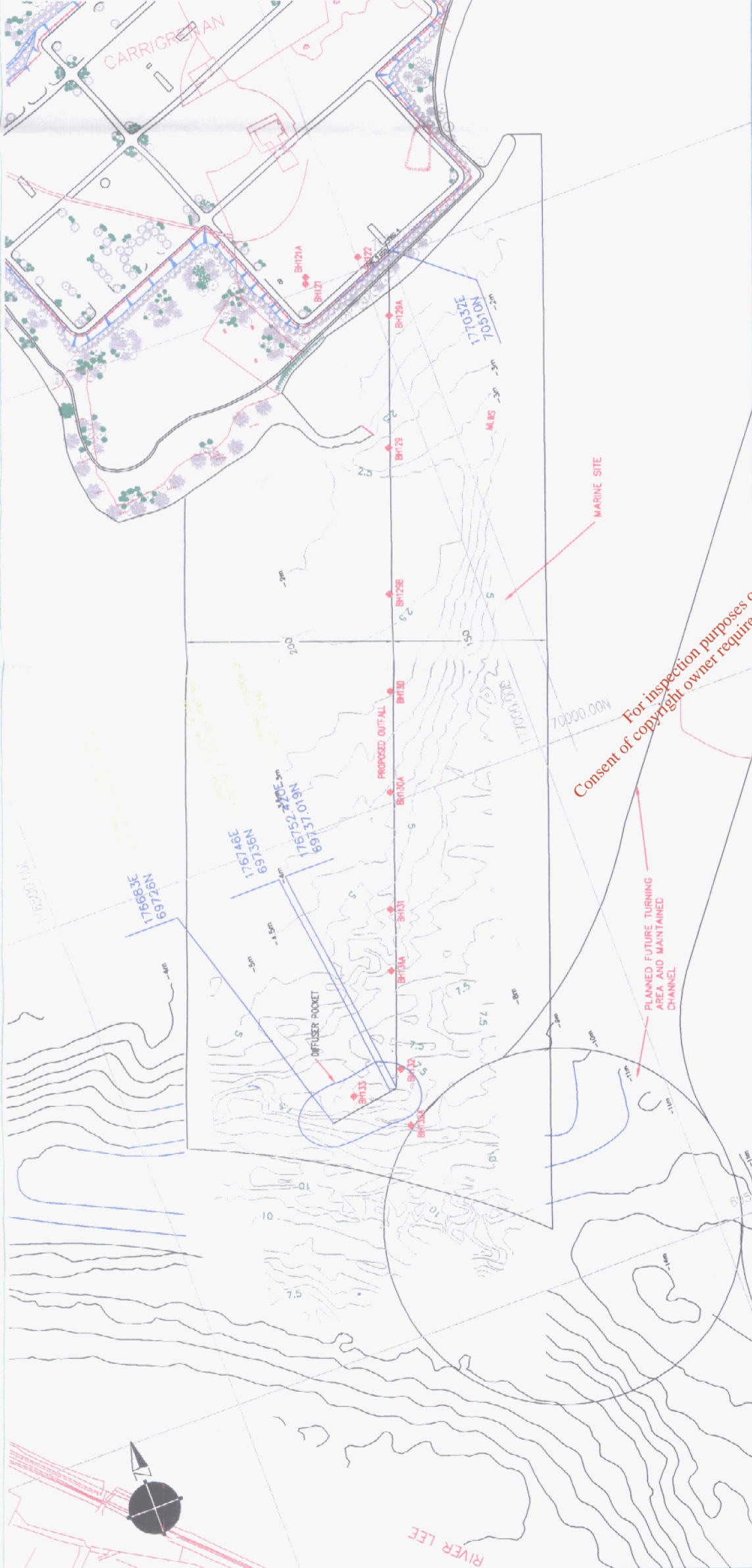
Project
CORK MAIN DRAINAGE SCHEME
 PHASE 3

Drawing
CARRIGRENAN
OUTFALL
PLAN & LONGITUDINAL SECTION

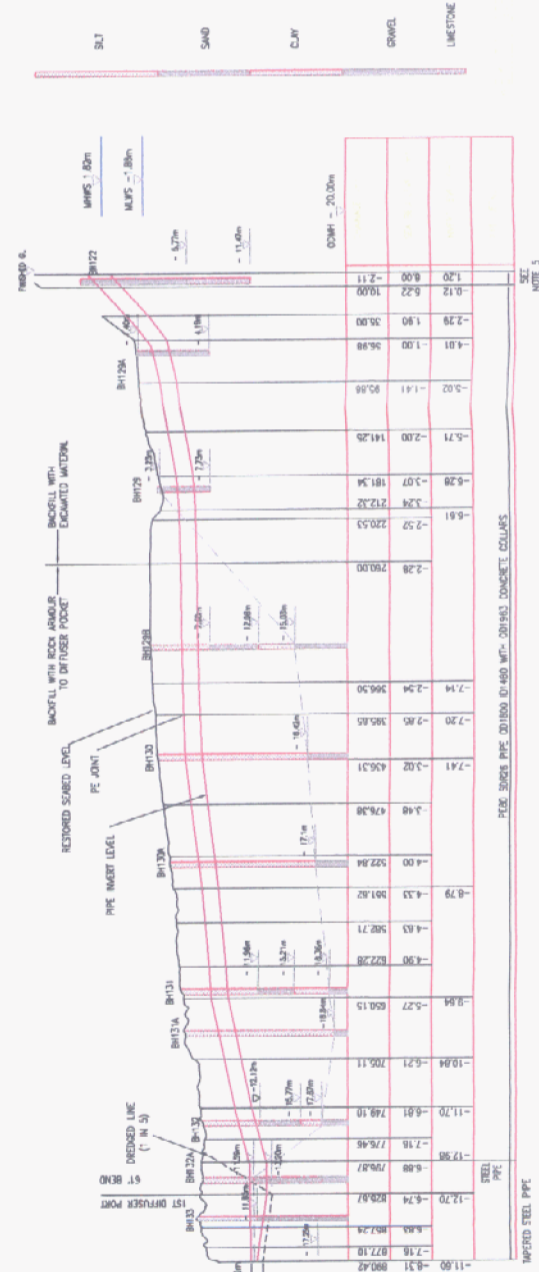
Drawn by: **AS** Date: **24.01.00**
 Checked by: **JG** Date: **29.02.00**
 Authorised by: **RE** Date: **29.02.00**

Drawing No. **WECROF.101** Revision **K**

Drawing Scale: **AS SHOWN FOR A1**
 CAD Filename: **WECROF.101** Plot Scale: **1:1**



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LONGITUDINAL SECTION
 (HORIZONTAL SCALE 1:2500 - VERTICAL SCALE 1:2500)

NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM.
3. DO NOT SCALE FROM THIS DRAWING.
4. FOR DETAILS OF LOCATION PLAN REFER TO DRG. NO. WECROF.101.
5. DIFFUSER ASSEMBLY AND ALL ASSOCIATED STEELWORK AND FIXINGS WERE COATED (INTERNALLY AND EXTERNALLY) AND PROVIDED WITH SACRIFICIAL ANODE CATHODIC PROTECTION SYSTEM.
6. DIFFUSER CONSISTS OF APPROXIMATELY 12m LONG SECTIONS BOLTED TOGETHER.
7. ALL FLANGES AND BOLTING ARRANGEMENTS ARE MINIMUM PNG DESIGNATION.

AS BUILT

K	SDM	SR	RUE	15/02/21	ADD CHANGE/COORDINATE
J	SDM	SR	RUE <td>21/08/21</td> <td>AS BUILT</td>	21/08/21	AS BUILT
I	SDM	SR	RUE <td>15/04/21</td> <td>BEND ANGLE AMENDED</td>	15/04/21	BEND ANGLE AMENDED
H	SDM	SR	RUE <td>21/03/21</td> <td>ILL AT JOINT REVISED</td>	21/03/21	ILL AT JOINT REVISED
G	SDM	SR	RUE <td>12/11/20</td> <td>DIFFUSER POCKET BASE WIDENED TO 1.3m</td>	12/11/20	DIFFUSER POCKET BASE WIDENED TO 1.3m
F	M	SR	RUE <td>01/02/21</td> <td>FLEXIFORM SCOUR MATRESS ADDED</td>	01/02/21	FLEXIFORM SCOUR MATRESS ADDED
E	M	SR	RUE <td>15/11/21</td> <td>TE BARS AND STRAP DETAILING</td>	15/11/21	TE BARS AND STRAP DETAILING
D	HB	SR	RE <td>11/08/21</td> <td>TAPERS & FLANGE JOINTS AMENDED</td>	11/08/21	TAPERS & FLANGE JOINTS AMENDED
C	HB	SR	RE <td>04/03/21</td> <td>MINOR CORRECTIONS</td>	04/03/21	MINOR CORRECTIONS
B	HB	SR	DL <td>26/08/21</td> <td>ALTERED TO LEVEL SOFFIT</td>	26/08/21	ALTERED TO LEVEL SOFFIT
A	WMC			15/7/21	FOR CONSTRUCTION

Client



VINDO CIVIL ENGINEERS
CARRIGRENNAN CIVIL & ELEC
HEGARTY

Contractor



Project

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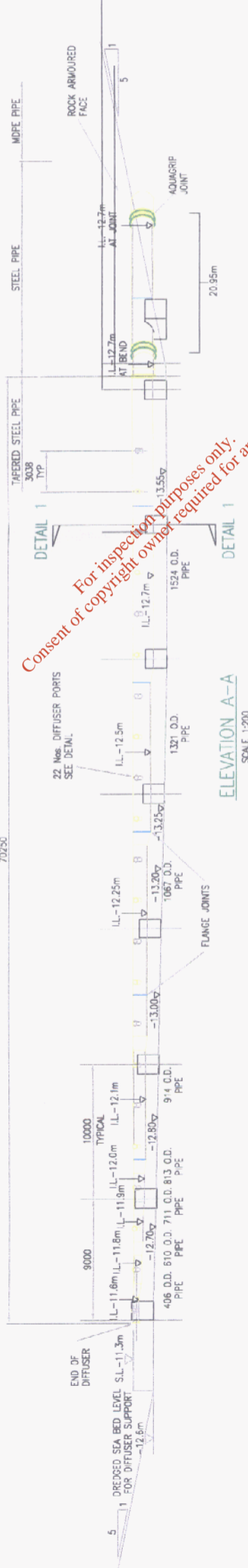
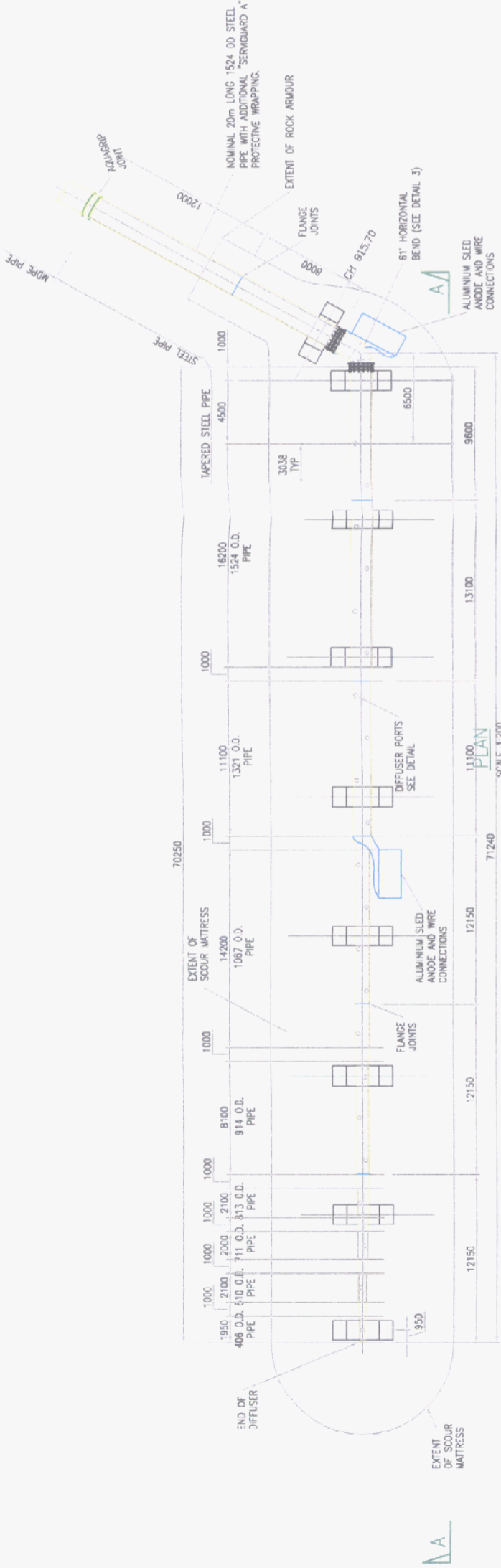


**CORK MAIN DRAINAGE SCHEME
PHASE 3**

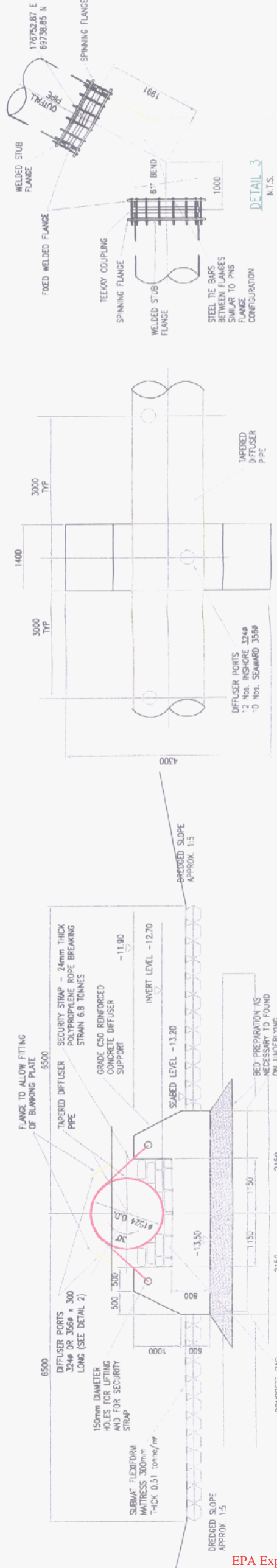
**CARRIGRENNAN
OUTFALL
DIFFUSER DETAILS**

Drawn by	AS	Date	11/02/00
Checked by	JG	Date	29/02/00
Authorised by	RLE	Date	29/02/00

Drawing No.	WECROF.102	Revision	K
Drawing Scale	AS SHOWN FOR A1		
CAD Filename	WECROF.102.dwg	Plot Scale	1:1



PIPE O.D. (mm)	WALL THICKNESS (mm)
1524	12.7
1321	9.5
1087	9.5
914	9.5
813	9.5
711	9.5
610	9.5
408	9.5
358	9.5
324	9.5



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DETAIL 1

DETAIL 2

DETAIL 3

DIFFUSER CONCRETE TRESTLE SUPPORT DETAILS
SCALE 1:50

NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM, WALN HEAD.
3. DO NOT SCALE FROM THIS DRAWING.
4. FOR DETAILS OF OUTFALL & DIFFUSER REFER TO DRG. No. WECROF.101 & 102.

AS BUILT

F	SR	RUE	AS BUILT
E	MT	RUE 10.50M	DIFFUSER POCKET BASE WIDENED TO 1.5m
D	MT	RUE 10.00M	FLEIFORM SCOUR MATRESS ADDED
C	MT	RUE 15.11M	FOR APPROVAL
B	FB	SR	LEVELS ALTERED
A	WNC	DCL 28.0M	FOR CONSTRUCTION

Revised	By	Checked/Approved	Date	Description

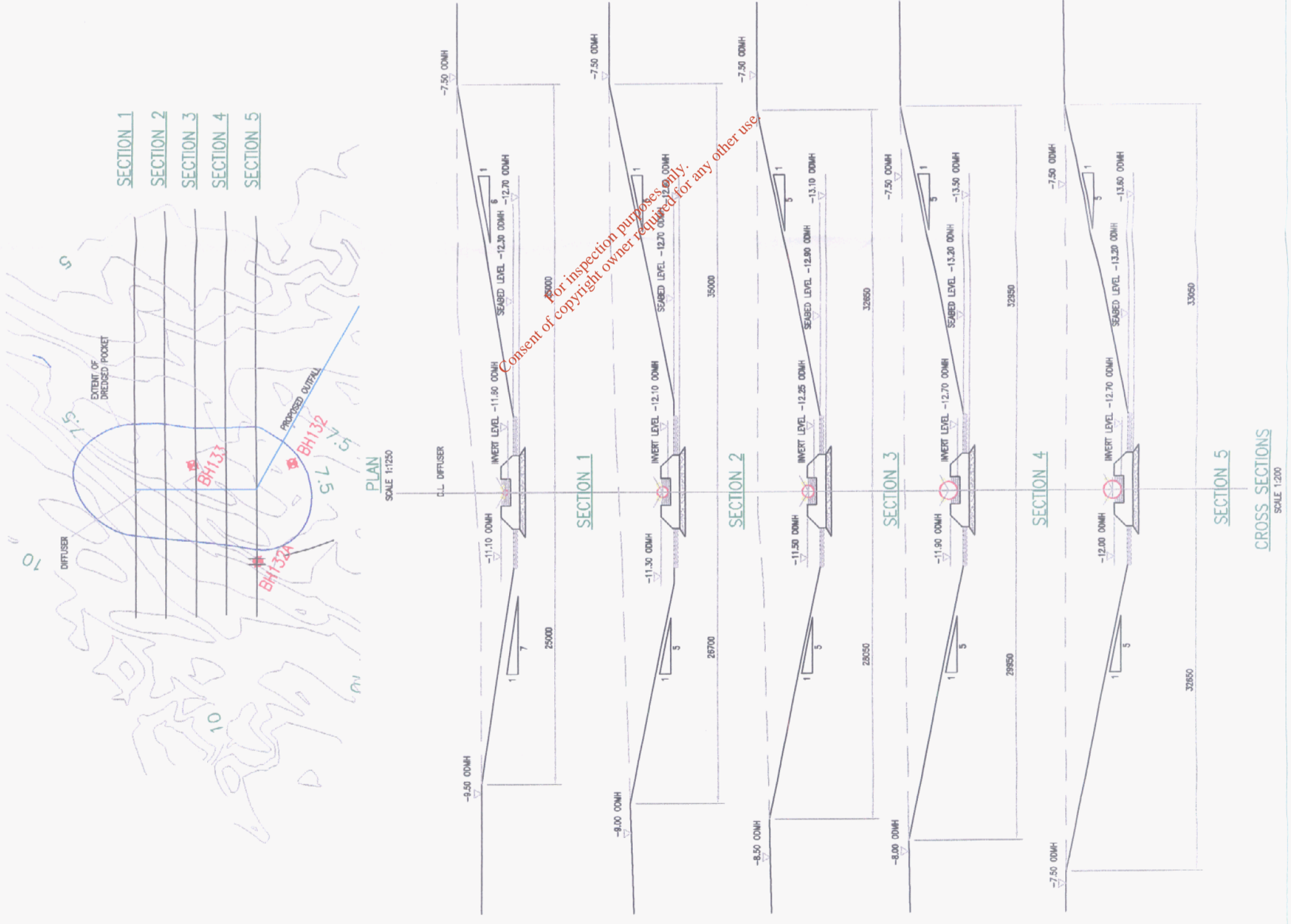
YINCI CIVIL ENGINEERING
 CLIENT: CARRIGRENAN CIVIL ENGRS
 HEGARTY

Van Oord A/Z
 Contractor

Halcrow
 Project: CORK MAIN DRAINAGE SCHEME PHASE 3
 Drawing No: WECROF.104

Drawn by: AS Date: 17.02.00
 Checked by: JG Date: 29.02.00
 Authorised by: RLE Date: 29.02.00

Revision: F
 Drawing Scale: 1:100 FOR A1 SHEET
 Dwg Filename: WECROF.104B.dwg Plot Scale: 1:1



NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM, MALIN 1950.
3. DO NOT SCALE FROM THIS DRAWING.
4. FOR DETAILS OF LOCATION PLAN REFER TO Drg No. WECROF01.

AS BUILT

CDM	SR	R/E	DATE	MODIFIED CHANGES
B	SR	R/E	27/06/12	AS BUILT
A	SR	R/E	12/02/12	SECTION FROM 620m ADDED

Client



Contractor

Halcrow Group Limited
 4th Floor, 130 High Street, Cork, Co. Cork, Ireland
 Tel: 01204 40000 Fax: 01204 40000



Project
**CORK MAIN DRAINAGE SCHEME
 PHASE 3**

Drawing
**CARRIGRENAN
 OUTFALL**

MAIN PIPELINE CROSS SECTIONS

Drawn by	ACW	Date	20.02.02
Checked by <td>SR</td> <td>Date</td> <td>26.02.02</td>	SR	Date	26.02.02
Authorised by <td>R.E.</td> <td>Date</td> <td>26.02.02</td>	R.E.	Date	26.02.02

Drawing No. **WECROF.106** Revision **C**

Drawing Scale: **AS SHOWN FOR A1**
 DTD Filename: **WECROF.106.dwg** Plot Scale: **1:1**

TRENCH BACKFILLED WITH
 SIDE-CASTED DREDGED
 MATERIAL



TRENCH DETAIL FROM CHAINAGE -2m TO 260m

1:50

BACKFILL TO ORIGINAL LEVEL
 WITH DREDGED SILTY/SANDY
 MATERIAL

50 TO 250 GRADED
 STONE ROCK ARMOUR
 MINIMUM 1m THICK

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POLYETHYLENE OUTFALL
 PIPE WITH CONCRETE
 SURROUND



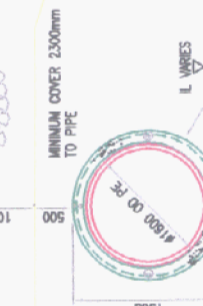
TRENCH DETAIL FROM CHAINAGE 260m TO 670m
 (CONTINUOUS WEIGHT COLLARS)

1:50

DREDGED SAND FILL OR IMPORTED
 GRAVEL AS GRANULAR SURROUND
 TO PIPE

50 TO 250 GRADED
 STONE ROCK ARMOUR
 MINIMUM 1m THICK

DREDGED SURFACE
 TYPICAL AVERAGE
 SLOPE 1:2 TO 1:3



POLYETHYLENE OUTFALL
 PIPE WITH CONCRETE
 SURROUND

TRENCH DETAIL FROM CHAINAGE 670m TO DIFFUSER POCKET (CHAINAGE 819m)
 (CONTINUOUS WEIGHT COLLARS)

1:50