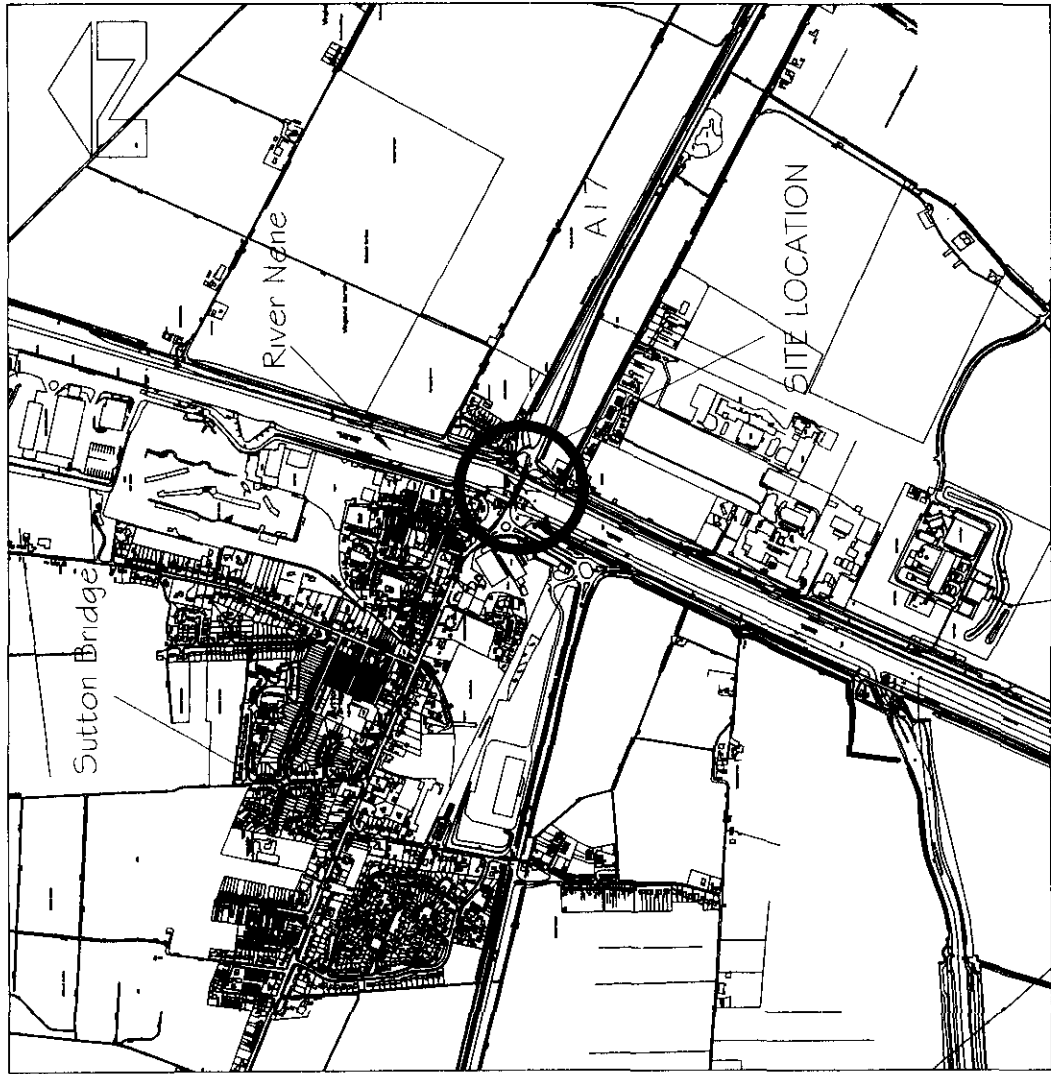
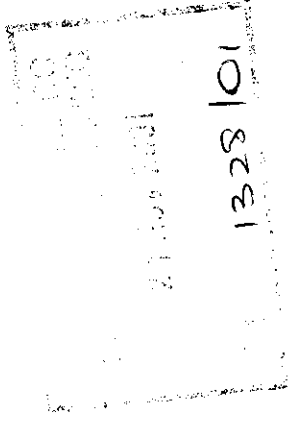


LINCOLNSHIRE COUNTY COUNCIL
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Scheme no. C02656
SUTTON BRIDGE
CROSS KEYS BRIDGE
FENDER REPAIRS



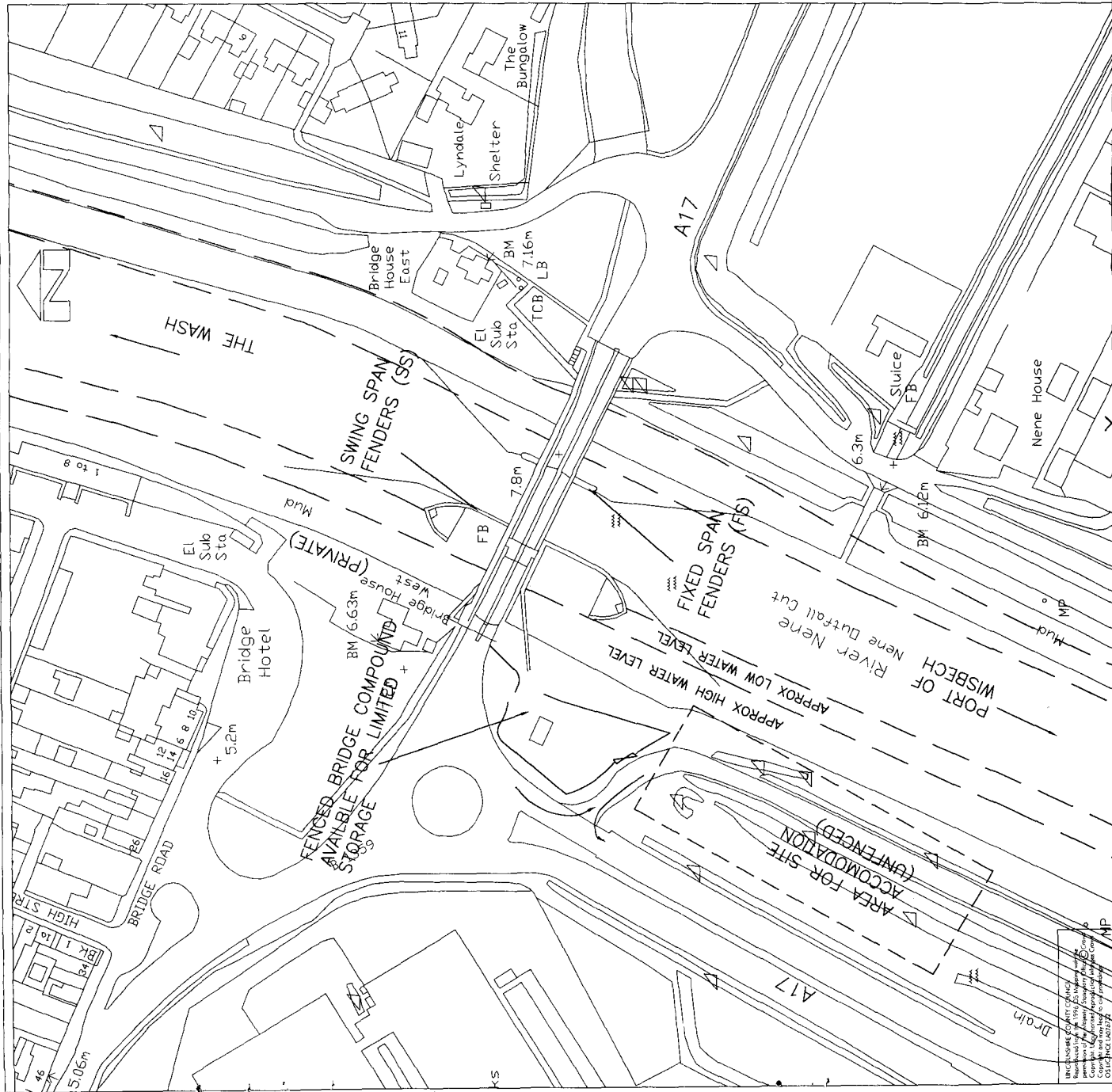
SITE OF PROPOSED WORKS

CONTENTS

SHEET No.	DRAWING No.
1	C02656/01
2	C02656/02
3	C02656/03
4	C02656/04
5	C02656/05
6	C02656/06
7	C02656/07
8	C02656/08
9	C02656/09
10	C02656/10
11	C02656/11
12	C02656/12
13	C02656/13
14	C02656/14
15	C02656/15
16	C02656/16
17	C02656/17
18	C02656/18
19	C02656/19
20	C02656/20
21	C02656/21
22	C02656/22

TITLE

SITE PLAN
PILE BENT REFERENCES
SWINGING SPAN FENDERING BENTS SS 14-27
SWINGING SPAN FENDERING BENTS SS 1-4, 6, 7, 19-12, 29-32, 34, 35, 37-40
SWINGING SPAN FENDERING BENTS SS 33, 36, 05, 08
SWINGING SPAN FENDERING BENTS SS 06A-34A
SWINGING SPAN FENDERING BENTS SS 13, 28
FIXED SPAN FENDERING BENTS FS 01, 03-09 INCL. #11
FIXED SPAN FENDERING BENTS FS 02 & FS 10
ELEVATION 1
ELEVATION 2
SWINGING SPAN FENDERING TYPICAL PLATING AND NEW WALINGS
FIXED SPAN FENDERING NEW WALING
JOINT TYPE 1
JOINT TYPE 2
JOINT TYPE 3
JOINT TYPE 4
JOINT TYPE 5
JOINT TYPE 6
JOINT TYPE W
TIMBER CLEATS
PILE CAP REFURBISHMENT TYPICAL DETAILS



1328/01

Rev. Date: Description: AMENDMENT DETAILS
Approved by: (Project Manager)

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LINCOLNSHIRE COUNTY COUNCIL
HIGHWAYS & PLANNING DIRECTORATE
P.D. JAMESON, B.Sc., C.Eng., F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN



DRG. No. D/C02656/01

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Drg. Description: SITE PLAN

CONTRACT SHEET No: 01

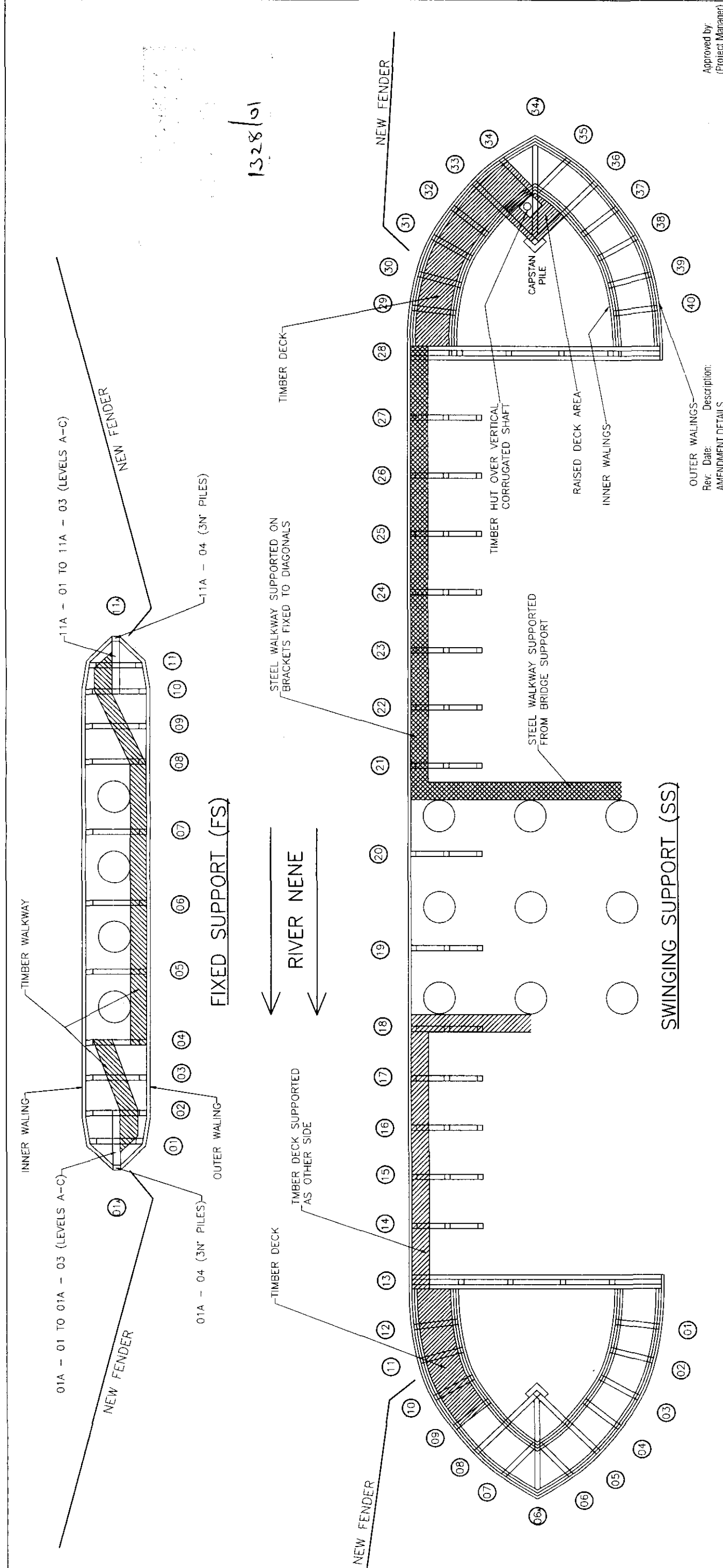
SCALE: 1:1250 Approved by: (Project Manager): DF

DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 26.10.01

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Approved by
(Project Manager)

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AMENDMENT DETAILS

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Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

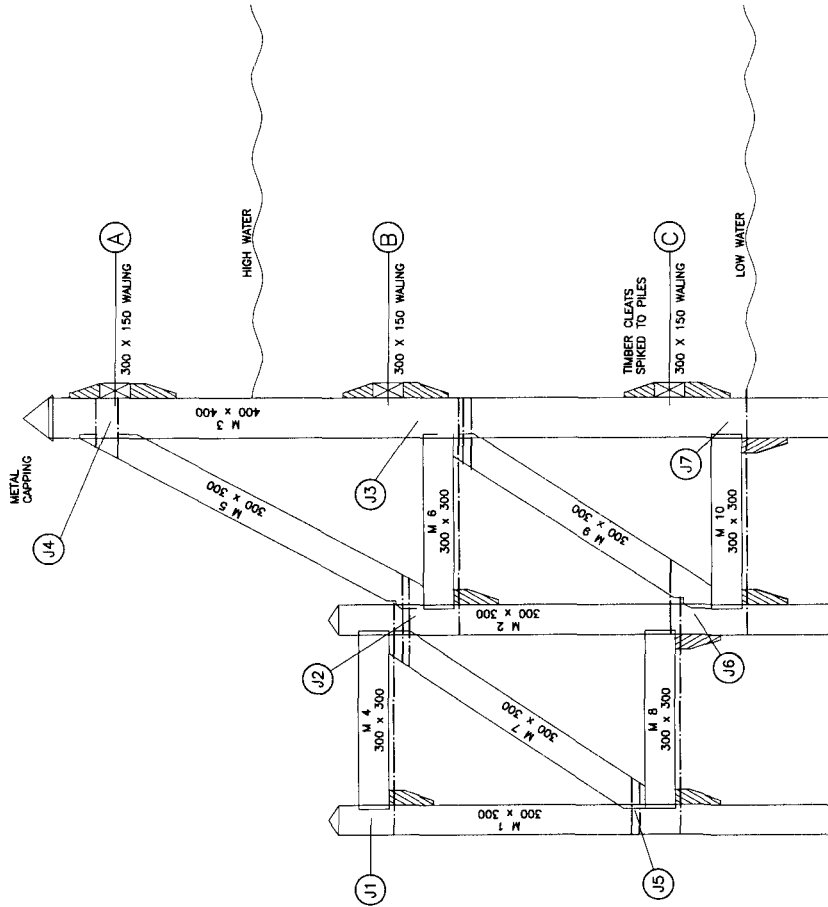
DRG.No. **D/C02656/02**
Structure No. **A17/13.20**
Rd No. **A17** Parish: **SUTTON BRIDGE**
Scheme: **CROSS KEYS BRIDGE FENDER REPAIRS**
Drg. Description: **PLAN SHOWING PILE BENT REFERENCES**

CONTRACT SHEET No: **02**

SCALE: 1:200 Approved by (Project Manager): DF
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 24.10.01

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Rev. Date Description Approved by
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 P.D. JAMESON, B.Sc. Eng., F.I.C.E., Head of Technical Services
 Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN



DRG. No. **D/C02656/03**

Structure No. **A17/13.2**

Rd No. **A17** **SUTTON BRIDGE**
 Scheme: **CROSS KEYS BRIDGE FENDER REPAIRS**
 Drg. Description: **SWINGING SPAN FENDERING**
BENTS SS 14 - 27

CONTRACT SHEET No: **03**

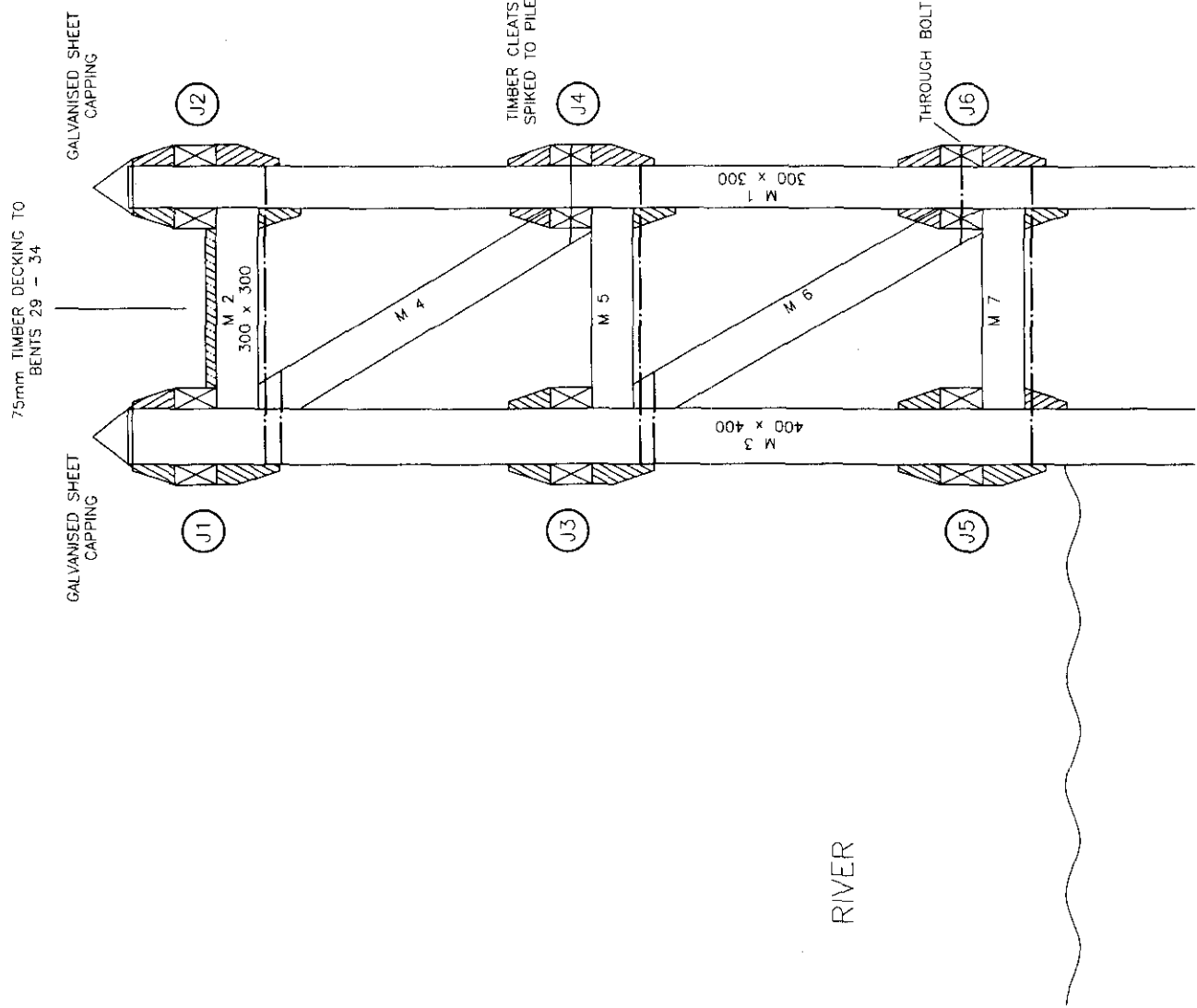
SCALE: N.T.S. Approved by (Project Manager): DF
 DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 24.10.01



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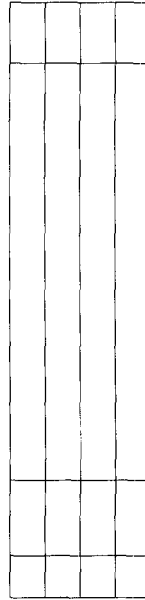
Rev. Date: Description: AMENDMENT DETAILS Approved by: (Project Manager)

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P.D. JAMESON, B.Sc., C.Eng., F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN



DRG. No. D/C02656/04
Structure No. A17/13.2
Rd No. A17 Parish: SUTTON BRIDGE
Scheme: CROSS KEYS BRIDGE FENDER REPAIRS
Drg. Description: SWINGING SPAN FENDERING
BENTS SS 1-4, 6&7, 9-12, 29-32, 34 & 35, 37-40

CONTRACT SHEET No: 04
SCALE: 1:50 Approved by (Project Manager): DF
DATE: 8.11.01
Draughted By: PJS Checked by: DF DATE: 25.10.01
BSI
UKAS
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AMENDMENT DETAILS			(Project Manager)



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Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

Draughted By: PJS Checked by: DF DATE: 8.11.01



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AMENDMENT DETAILS			(Project Manager)



DRG.No. D/C02656/06

Structure No. 13.2

Rd No.	A17	Parish:	SUTTON
--------	-----	---------	--------

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

on SWINGING SPAN FE
BENTS SS 06A - 34A

CONTRACT SHEET No: 06

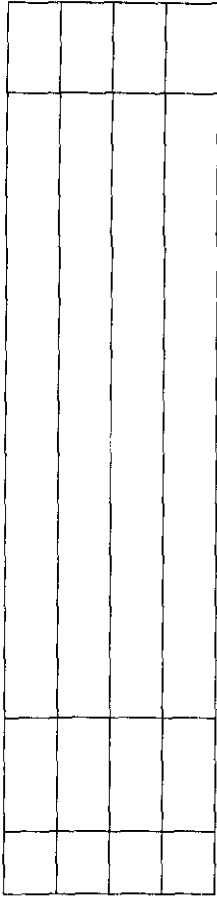
SCALE: 1:50 Approved by (Project Manager): DF

DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 25.10.01

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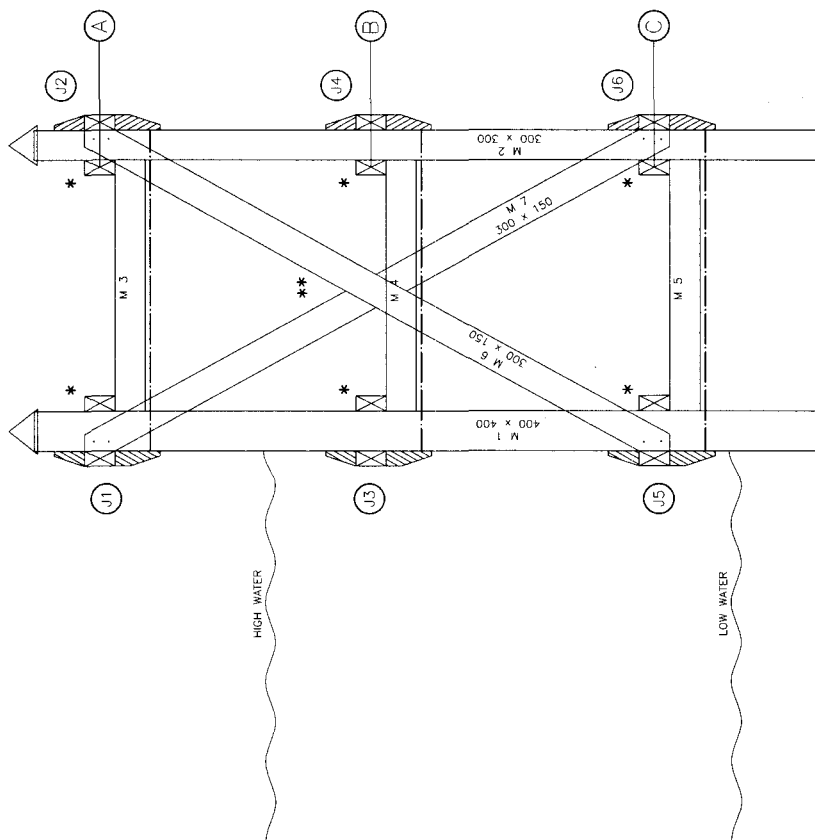


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NOTES

- * NO INNER WALINGS BETWEEN 04-08
- ** NO CROSS BRACE ON FS 05-07

1328/01



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		AMENDMENT DETAILS	(Project Manager)

LINCOLNSHIRE - Part of the East Midlands Region
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 Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN



DRG. No. D/C02656/08

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Org. Description: FIXED SPAN FENDERING

BENTS FS 01, 03 - 09 INCL. & 11

CONTRACT SHEET No: 08

SCALE: 1:50 Approved by (Project Manager): DF

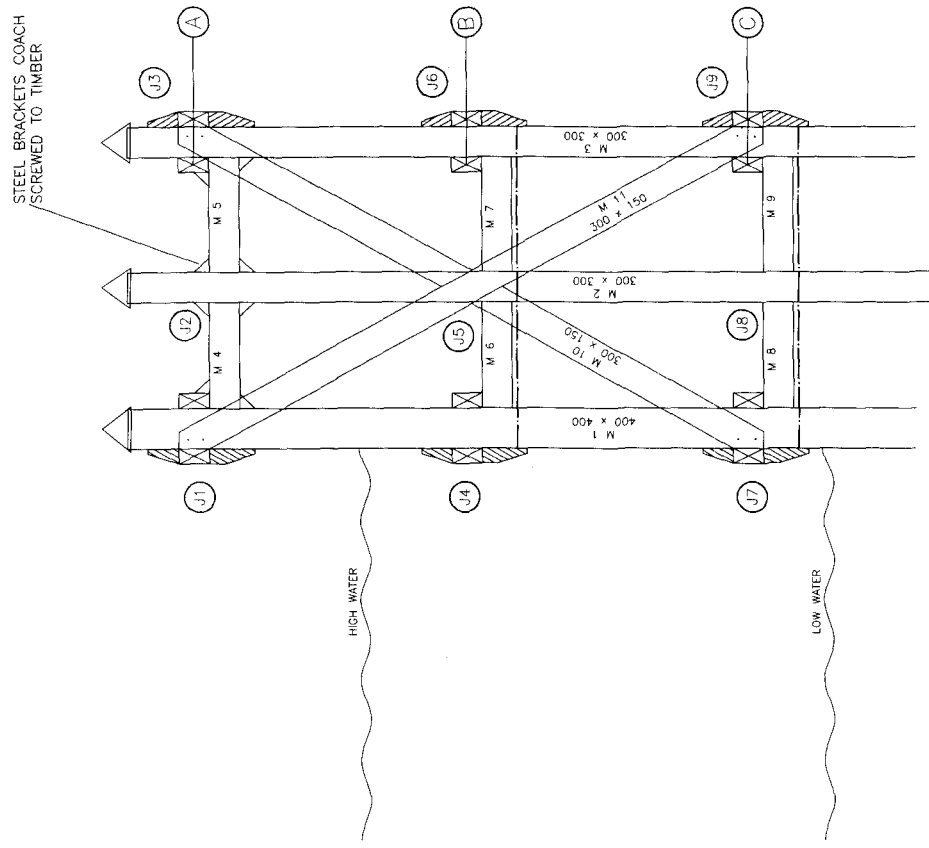
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 8.11.01

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STEEL BRACKETS COACH
/SCREWED TO TIMBER

[illegible]

Rev. Date:	Description:	Approved by:
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HIGHWAYS & PLANNING DIRECTORATE
PD. JAMESON, BSc. C.Eng. F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/09

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FEN

Drug, Description	FIXED SPAN FENDERIN	RENITS ES 02 & ES 10
1. Name of the drug	Fixed Span Fenderin	RENITS ES 02 & ES 10
2. Manufacturer	Fixed Span Fenderin	RENITS ES 02 & ES 10
3. Strength	Fixed Span Fenderin	RENITS ES 02 & ES 10
4. Dosage form	Fixed Span Fenderin	RENITS ES 02 & ES 10
5. Indication	Fixed Span Fenderin	RENITS ES 02 & ES 10
6. Contraindications	Fixed Span Fenderin	RENITS ES 02 & ES 10
7. Side effects	Fixed Span Fenderin	RENITS ES 02 & ES 10
8. Interactions	Fixed Span Fenderin	RENITS ES 02 & ES 10
9. Storage	Fixed Span Fenderin	RENITS ES 02 & ES 10
10. Shelf life	Fixed Span Fenderin	RENITS ES 02 & ES 10
11. Pharmacokinetics	Fixed Span Fenderin	RENITS ES 02 & ES 10
12. Pharmacodynamics	Fixed Span Fenderin	RENITS ES 02 & ES 10
13. Clinical studies	Fixed Span Fenderin	RENITS ES 02 & ES 10
14. Regulatory status	Fixed Span Fenderin	RENITS ES 02 & ES 10
15. Other information	Fixed Span Fenderin	RENITS ES 02 & ES 10

CONTRACT SHEET No: 09

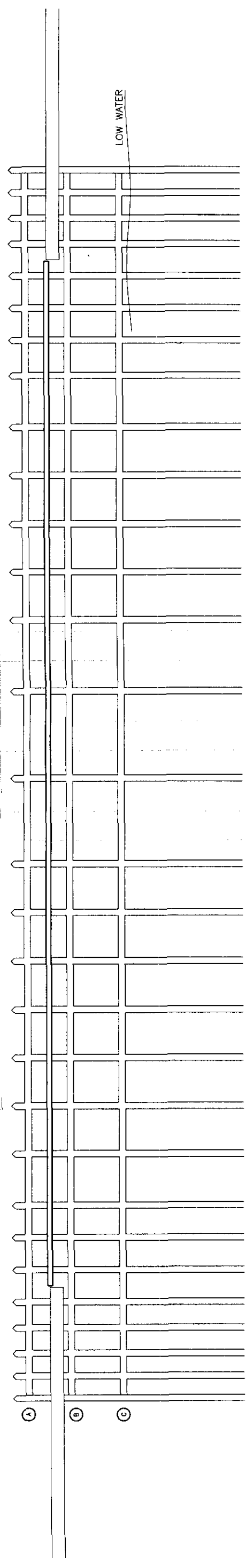
SCALE: 1:50
Approved by (Project Manager): DF
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 8.11.01



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PART ELEVATION OF SWINGING SPAN FENDERING FROM
NAVIGATION CHANNEL

Rev: Date: Description: Approved by: (Project Manager)



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P.D. JAMESON, B.Sc., C.Eng., F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. **D/C02656/10**

Structure No. **A17/13.2**

Rd No. **A17** - Parish: **SUTTON BRIDGE**

Scheme: **CROSS KEYS BRIDGE FENDER REPAIRS**

Drg. Description **ELEVATION 1**

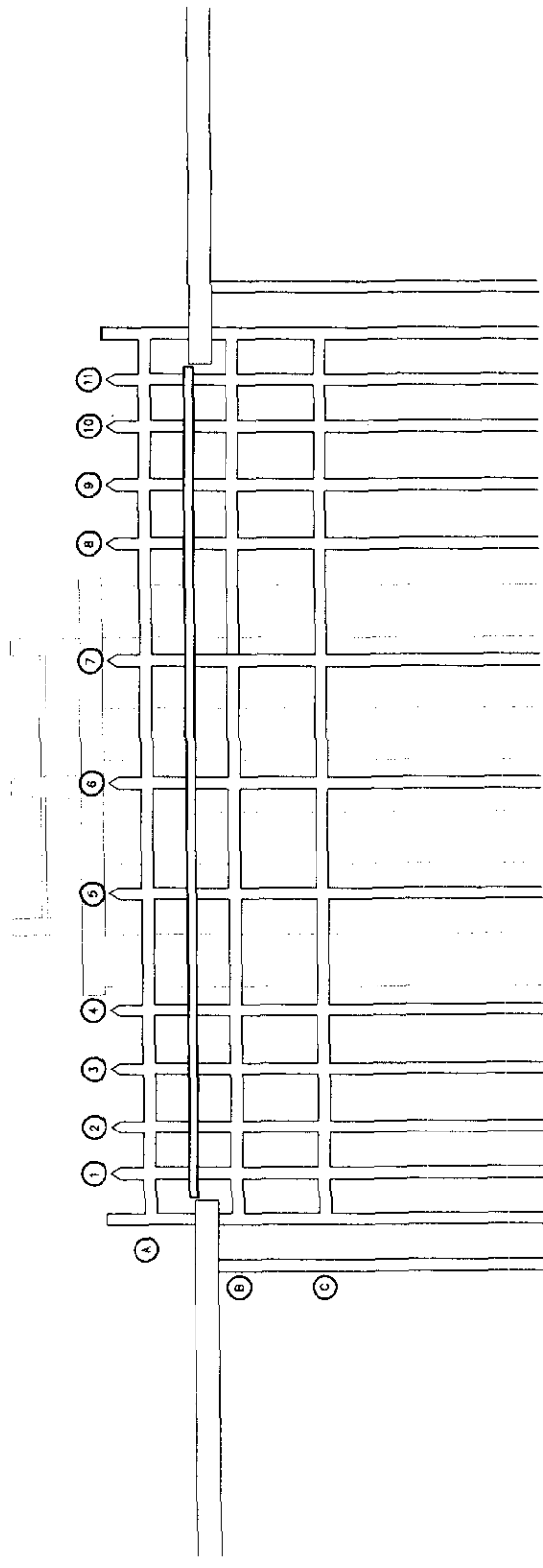
CONTRACT SHEET No: **10**

SCALE: 1:250 Approved by (Project Manager): **DF**
DATE: **8.11.01**

Draughted By: **PJS** Checked by: **DF** DATE: **8.11.01**



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PART ELEVATION OF FIXED SPAN FENDERING FROM NAVIGATION CHANNEL

1328/01

Rev.	Date:	Description:	Approved by:
AMENDMENT DETAILS			(Project Manager)

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DRG. No. D/C02656/11

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Org. Description ELEVATION 2

CONTRACT SHEET No: 11

SCALE: 1:250 Approved by (Project Manager): DF
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 8.11.01

BSI
UKAS
QUALITY
MANAGEMENT

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[illegible]

(1) CHART DATUM REFERS TO DATUM USED IN "TIDE TABLES FOR THE PORT OF WISBECH" CUT 52°49.57'N 00°13.11'E PUBLISHED BY FENLAND DISTRICT COUNCIL

(2) PLATES TO BE GALVANISED AND PAINTED IN BLACK EPOXY TAR.

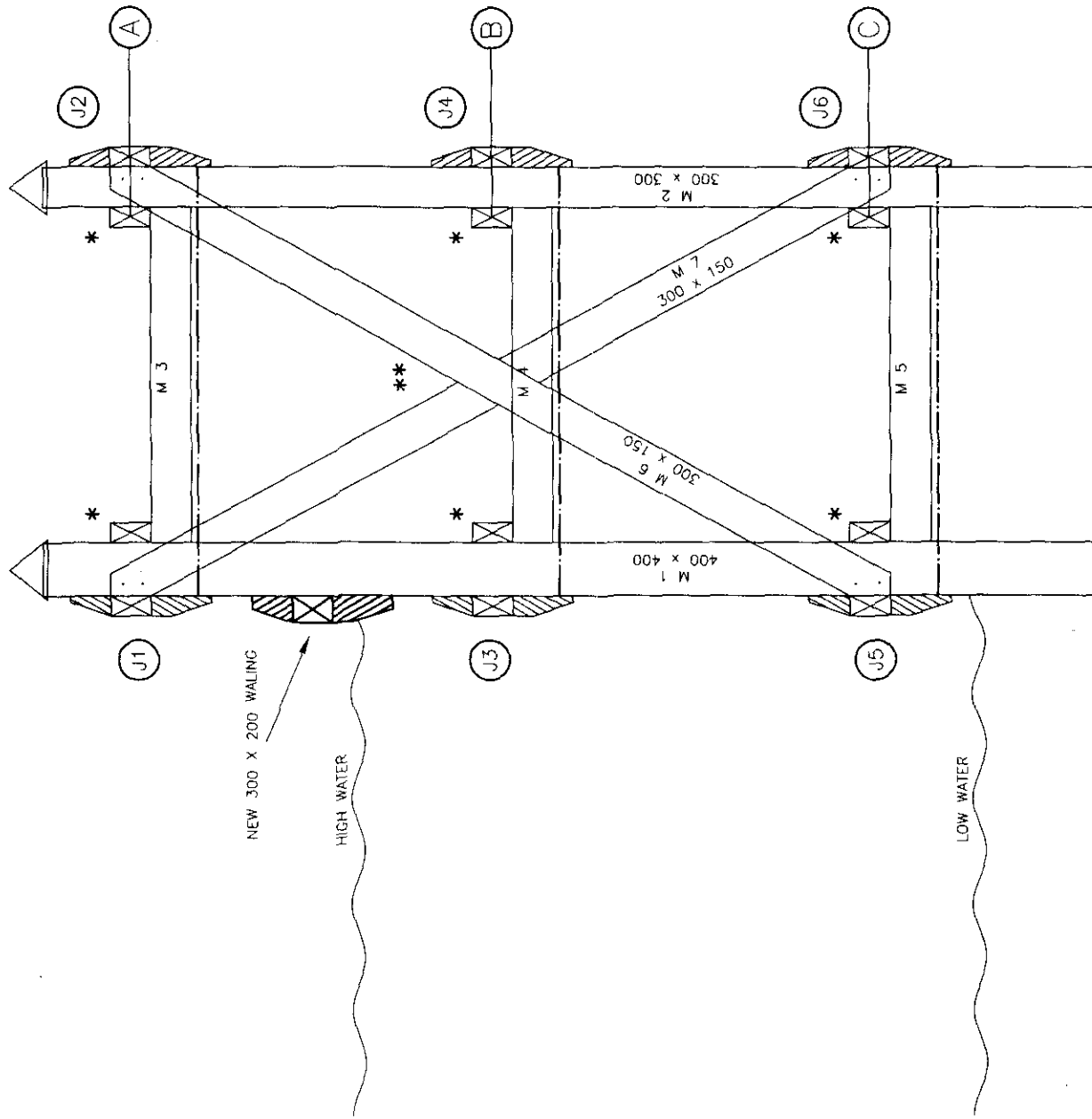
Rev.	Date:	Description:	Approved by: (Project Manager)

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LINCOLNSHIRE COUNTY COUNCIL HIGHWAYS & PLANNING DIRECTORATE PD. JAMESON, B.Sc.Eng-F.I.C.E., Head of Technical Services Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN	
DRG. No.	D/C02656/12
Structure No.	A17/13.2
Rd No.	A17 Parish: SUTTON BRIDGE
Scheme:	CROSS KEYS BRIDGE FENDER REPAIRS
Drig. Description	SWINGING SPAN FENDERING TYPICAL PLATING AND NEW WALINGS
CONTRACT SHEET No: 12	
SCALE N.T.S.	Approved by (Project Manager): DF DATE: 8.11.01
Draughted By: PJS	Checked by: DF DATE: 24.10.01

NOTES

* NO INNER WALINGS
BETWEEN 04-08

** NO CROSS BRACE
ON FS 05-07



Rev.	Date	Description	Approved by
AMENDMENT DETAILS			(Project Manager)



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DRG. No. D/C02656/13

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Drig. Description: FIXED SPAN FENDERING

NEW WALING

CONTRACT SHEET No: 13

SCALE: 1:50 Approved by (Project Manager): DF

DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 8.11.01



JOINT TYPE 1

JOINT SCHEDULE

2 No PLATES REF 1

2 No TIMBER PACKERS 50mm THICK

8 No M22 BOLTS 470mm LONG

8 No M22 NUTS

8 No 24mm ϕ DRILLED HOLES IN TIMBER

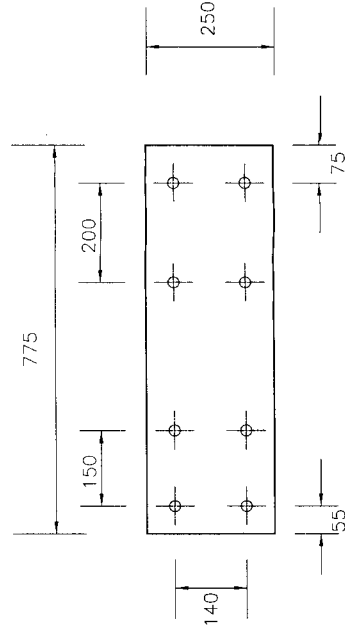
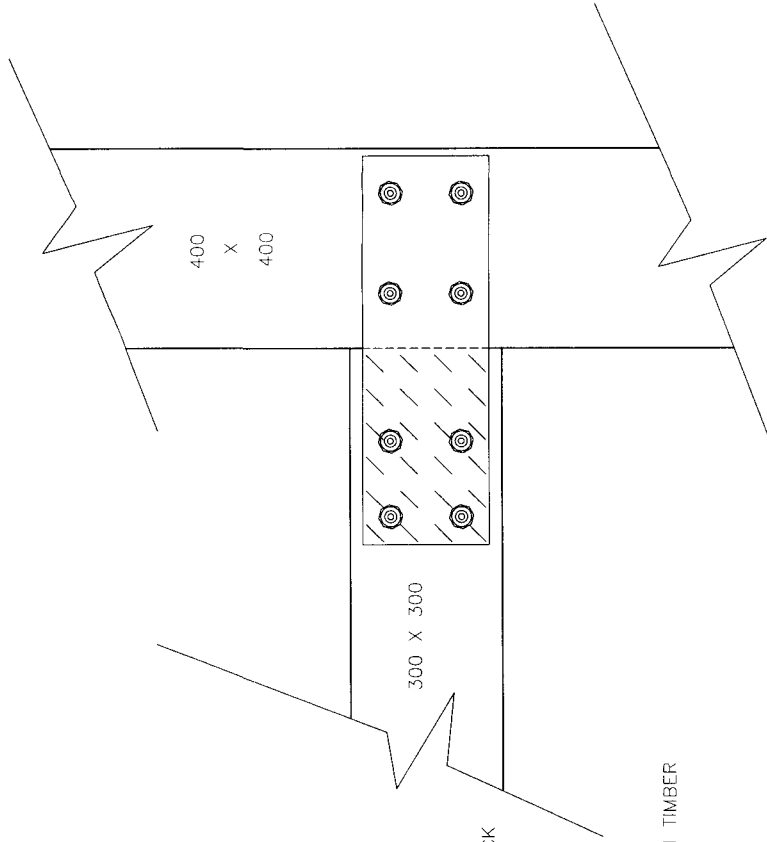
NOTE

- (1) ALL MUD AND MARINE GROWTH WILL BE REMOVED BEFORE INSTALLATION OF PLATES
- (2) HOLE POSITIONS TO BE VERIFIED ON SITE TO AVOID EXISTING BOLTS ETC.
- (3) SEE ALSO SPECIFICATION CLAUSES 1, 2, 3, AND 4 RELATING TO MATERIALS AND PROTECTION.

PLATE REF 1

PLATE THICKNESS 15mm

HOLE ϕ 25mm



Rev.	Date	Description	Approved by
AMENDMENT DETAILS			(Project Manager)

Approved by:
(Project Manager)

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DRG. No. D/C02656/14

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Drg. Description: JOINT TYPE 1

CONTRACT SHEET No: 14

SCALE: 1:20 Approved by (Project Manager): DF

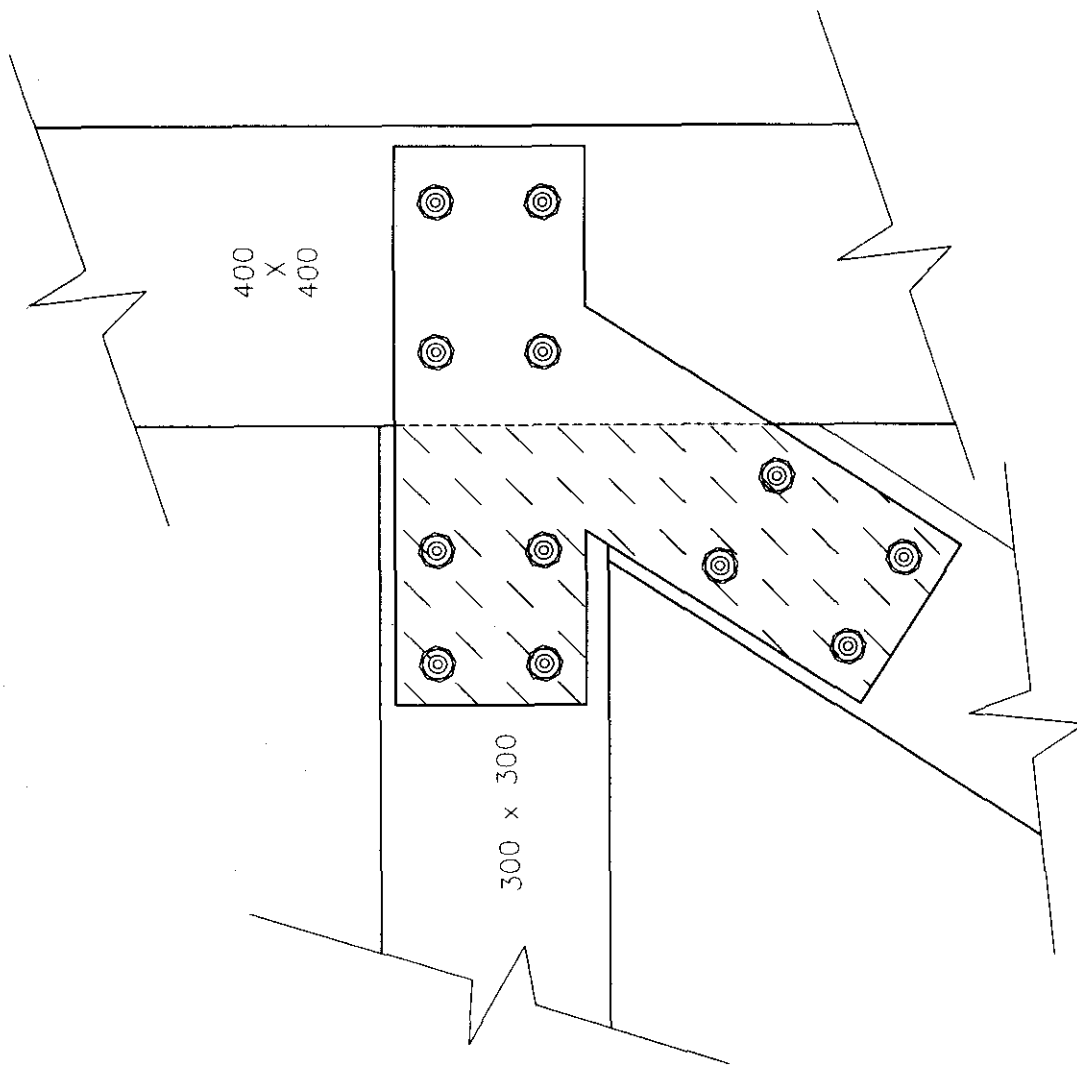
DATE: 8.11.01

Draughted By: PJS Checked by: DF

DATE: 26.10.01

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JOINT TYPE 2

JOINT SCHEDULE

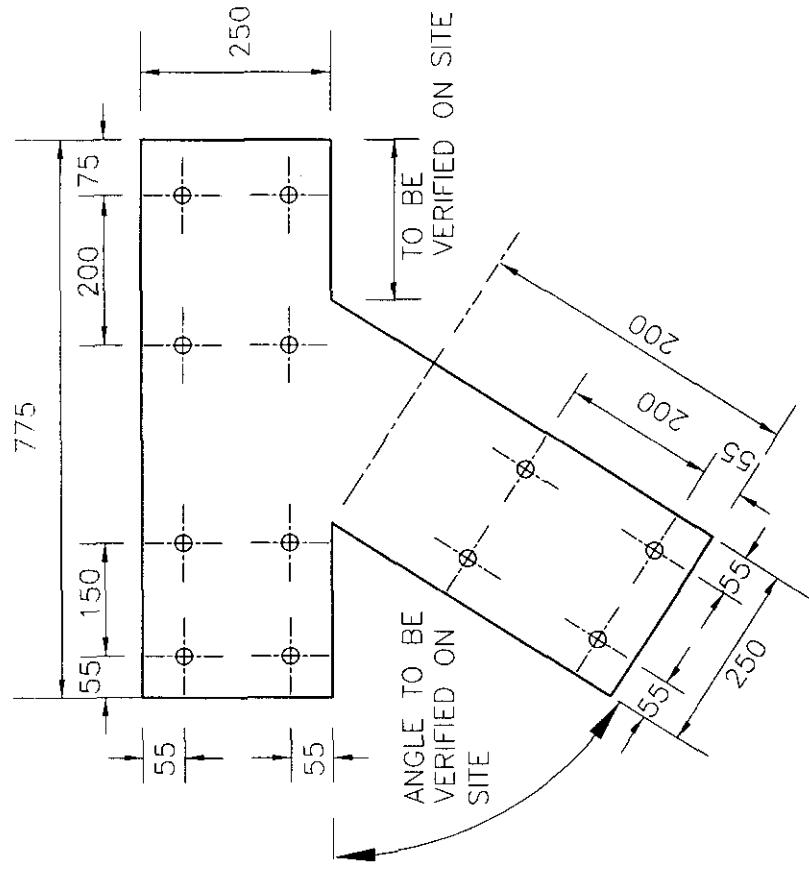
- 2 No PLATES REF 2
- 4 No TIMBER PACKERS 50mm THICK
- 12 No M22 BOLTS 470mm LONG
- 12 No M22 NUTS
- 12 No 25mm ϕ DRILLED HOLES IN TIMBER

NOTE

HOLE POSITIONS TO BE VERIFIED ON SITE TO AVOID EXISTING BOLTS ETC.

PLATE REF 2

PLATE THICKNESS 15mm
HOLE ϕ 24mm



Rev.	Date	Description	Approved by
		AMENDMENT DETAILS	(Project Manager)

Rev. Date Description Approved by
AMENDMENT DETAILS (Project Manager)

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P.D. JAMESON, B.Sc., C.Eng., F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/15

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Drg. Description JOINT TYPE 2

CONTRACT SHEET No: 15

SCALE: 1:10 Approved by (Project Manager): DF
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 26.10.01



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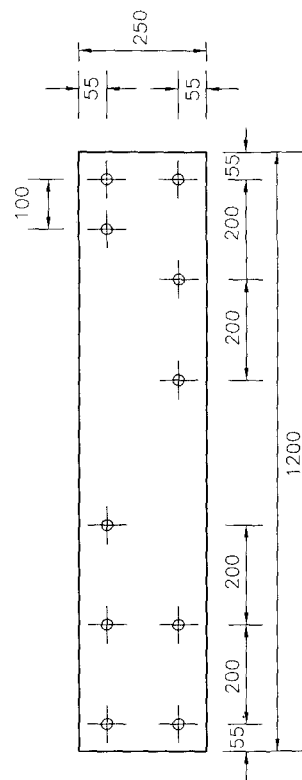
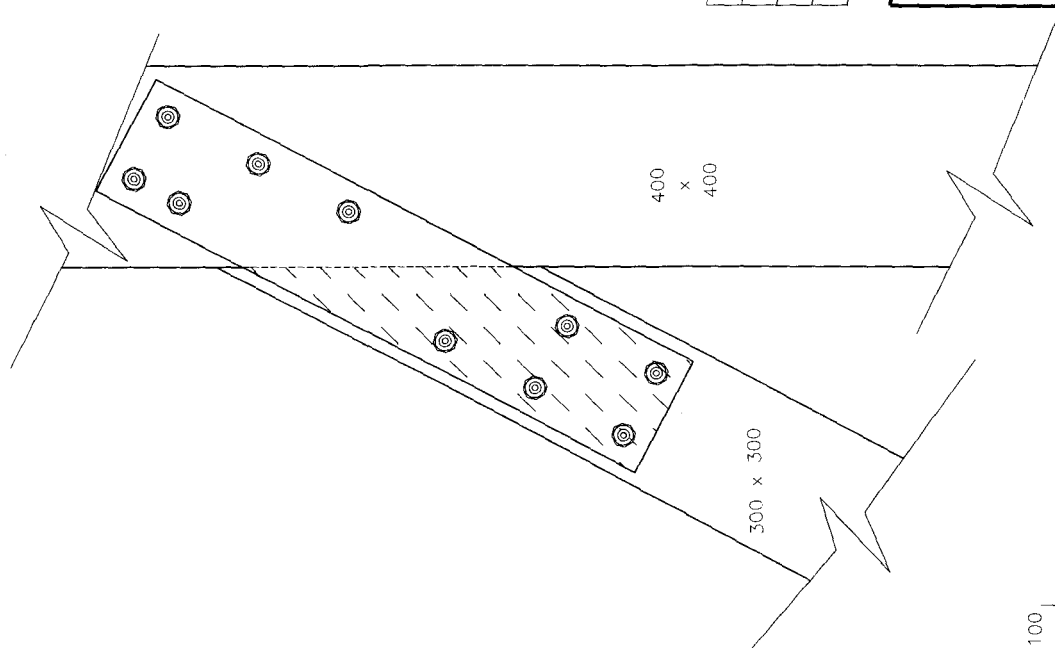
JOINT SCHEDULE

- 2 No PLATES REF 3
- 4 No TIMBER PACKERS 50mm THICK
- 10 No M22 BOLTS 470mm LONG
- 10 No M22 NUTS
- 10 No 25mm Ø DRILLED HOLES IN TIMBER

(1) HOLE POSITIONS TO BE VERIFIED ON SITE TO AVOID EXISTING BOLTS ETC.

PLATE THICKNESS 15mm

HOLE Ø 24mm

[illegible]

Rev.	Date:	Description:	Approved by:
		AMENDMENT DETAILS	(Project Manager)

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PPD. JAMESON, B.Sc.Eng.F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/16

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE
Scheme: CROSS KEYS BRIDGE FENDER REPAIRS
Drg. Description JOINT TYPE 3

CONTRACT SHEET No: 16

SCALE: 1:10 Approved by (Project Manager): DF
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 26.10.01



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JOINT TYPE 4

JOINT SCHEDULE

2 No PLATES REF 4

12 No M22 BOLTS 470mm LONG

12 No M22 NUTS

12 No 25mm ϕ DRILLED HOLES IN TIMBER

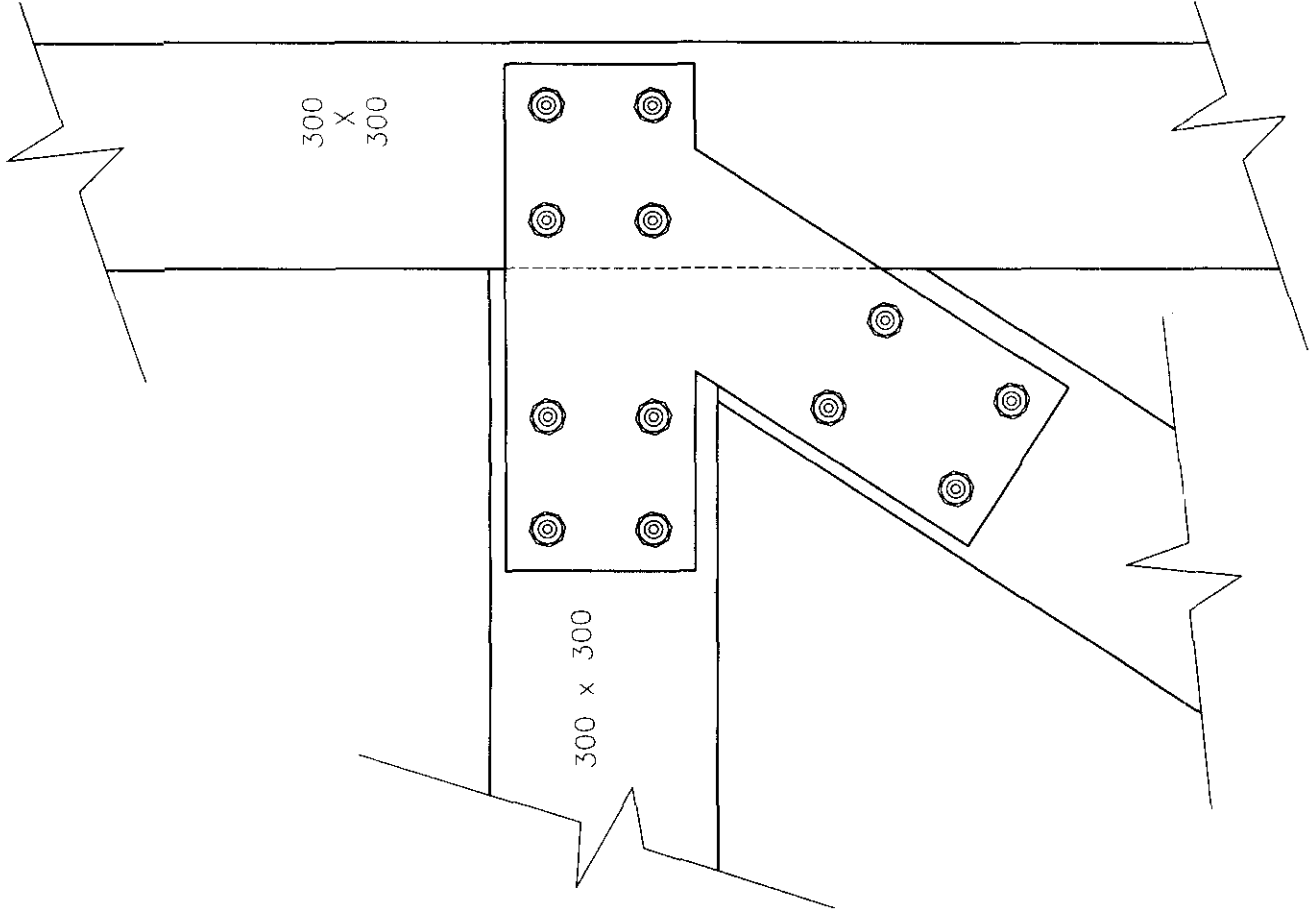
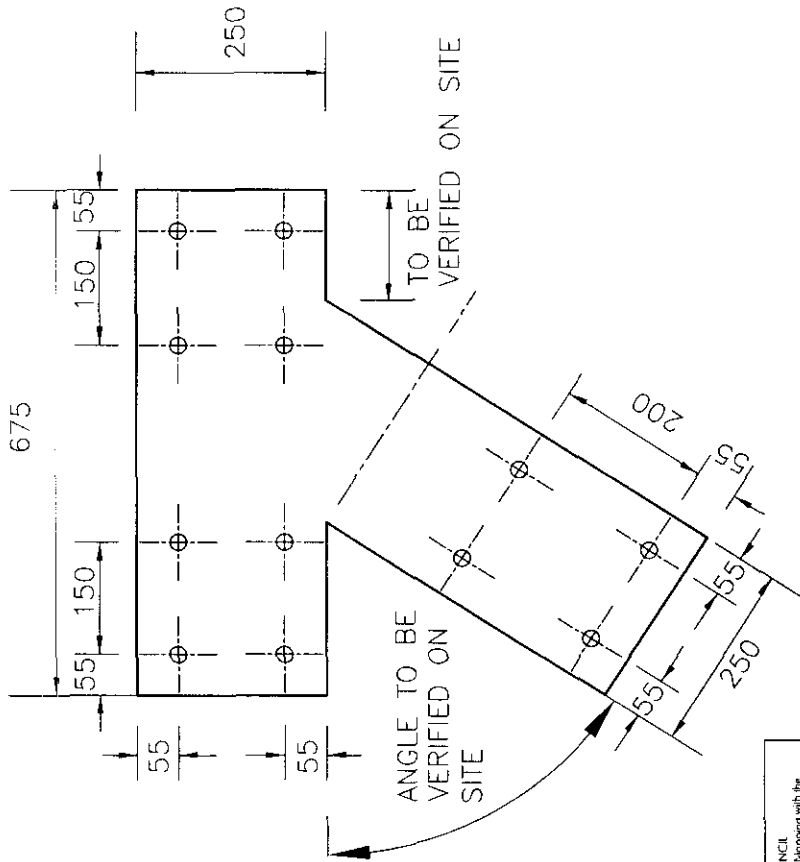
NOTE

HOLE POSITIONS TO BE VERIFIED ON SITE TO AVOID EXISTING BOLTS ETC.

PLATE REF 4

PLATE THICKNESS 15mm

HOLE ϕ 25mm



1328/01

Rev.	Date	Description	Approved by (Project Manager)



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P.D. JAMESON, B.Sc., C.Eng., F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/17

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Drg. Description JOINT TYPE 4

CONTRACT SHEET No: 17

SCALE: 1:10 Approved by (Project Manager): DF
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 26.10.01



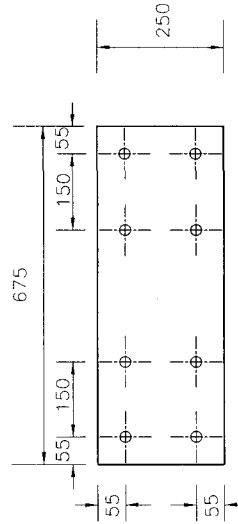
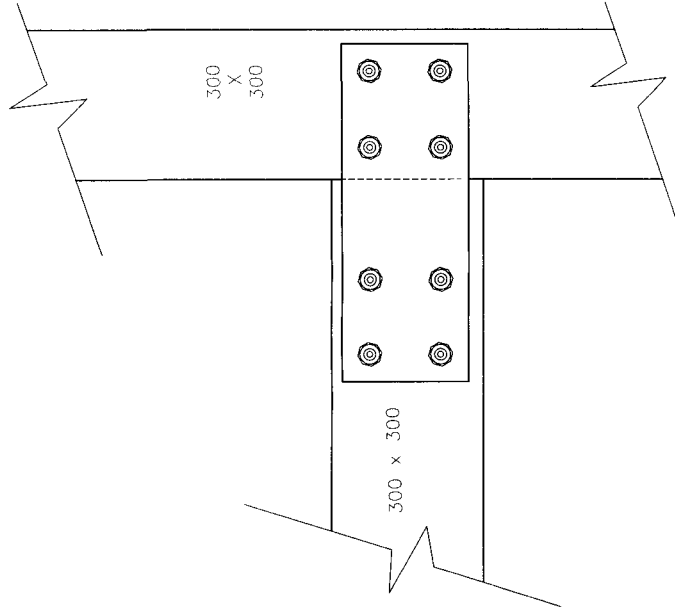
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JOINT SCHEDULE

- 2 No PLATES REF 1
8 No M22 BOLTS 470mm LONG
8 No M22 NUTS
8 No 25mm Ø DRILLED HOLES IN TIMBER

HOLE POSITIONS TO BE VERIFIED ON SITE TO AVOID EXISTING BOLTS ETC.

PLATE THICKNESS 15mm
HOLE ϕ 25mm

[illegible]

Rev.	Date:	Description:	Approved by:
		AMENDMENT DETAILS	(Project Manager)



LINCOLNSHIRE - Part of the East Midlands Region
LINCOLNSHIRE COUNTY COUNCIL
HIGHWAYS & PLANNING DIRECTORATE
PD. JAMESON B.Sc. Eng, F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/18

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE
Scheme: CROSS KEYS BRIDGE FENDER REPAIRS
Drq. Description JOINT TYPE 5

CONTRACT SHEET No: 78

SCALE: 1:10 Approved by (Project Manager): DF
DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 26.10.01



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JOINT TYPE 6

JOINT SCHEDULE

2 No PLATES REF 6

5 No M22 BOLTS 370mm LONG

1 No M22 BOLT 100mm LONG

300
X
300

300 X 300

NOTE

HOLE POSITIONS TO BE VERIFIED ON SITE TO
AVOID EXISTING BOLTS ETC.

1328/01

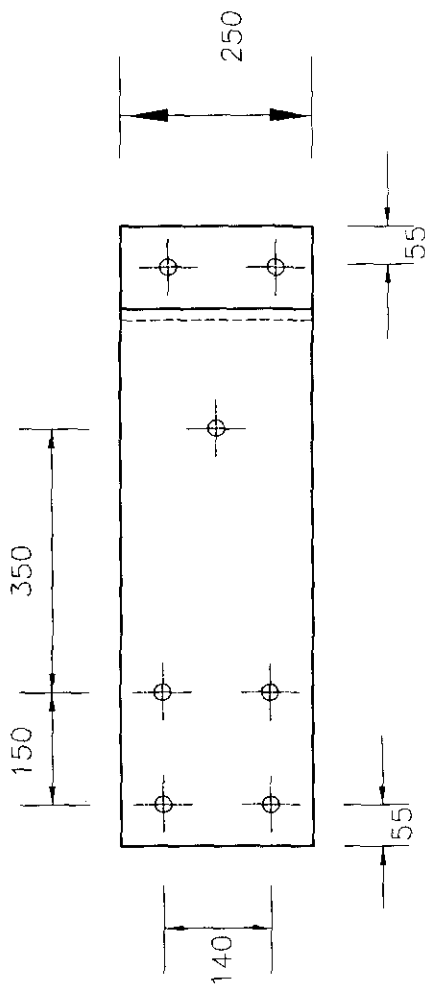
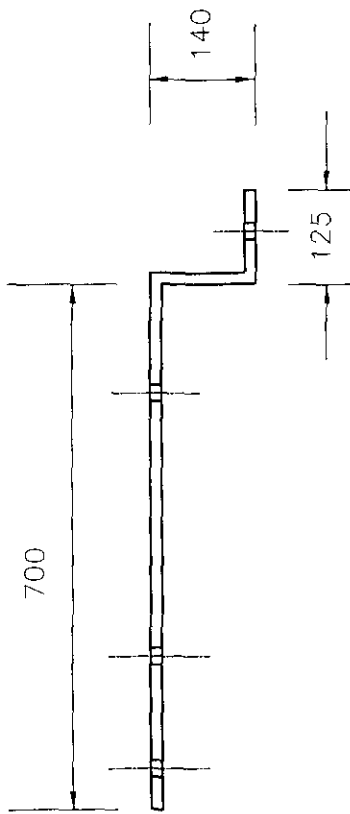


PLATE REF 6

PLATE THICKNESS 15mm

HOLE ϕ 25mm



Rev: Date: Description: Approved by: (Project Manager)

AMENDMENT DETAILS

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Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/19

Structure No. A17/13.2

Rd No. A17 Parish: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Drg. Description JOINT TYPE 6

CONTRACT SHEET No: 19

SCALE: 1:10 Approved by (Project Manager): DF

DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 26.10.01

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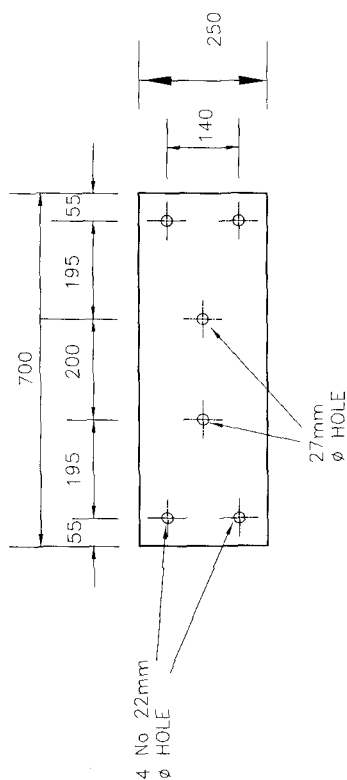


PLATE REF W

PLATE THICKNESS 15mm

HOLE ϕ 25mm

NOTE

(1) SEE ALSO SPECIFICATION CLAUSES 1, 2, 3, AND 4 RELATING TO MATERIALS AND PROTECTION.

JOINT TYPE W (FOR NEW WALINGS) JOINT SCHEDULE

- 1 No PLATE REF W
- 2 No M25 BOLTS DOMED HEAD 670mm LONG
- 2 No M25 NUTS
- 2 No 75mm ϕ X 5mm THICK WASHERS
- 4 No M22 BOLTS DOMED HEAD 270mm LONG
- 4 No M22 NUTS
- 4 No 60mm ϕ X 5mm THICK WASHERS
- 2 No 27mm ϕ DRILLED HOLES IN TIMBER
- 4 No 22mm ϕ DRILLED HOLES IN TIMBER

Rev. Date: Description: AMENDMENT DETAILS

Approved by: (Project Manager)

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PD JAMESON BSc C.Eng. F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/20

Structure No. A17/13.2

Ref No. A17 Pond: SUTTON BRIDGE

Scheme: CROSS KEYS BRIDGE FENDER REPAIRS

Drig Description: JOINT TYPE W

CONTRACT SHEET No: 20

SCALE: 1:10 Approved by (Project Manager): DF

DATE: 8.11.01

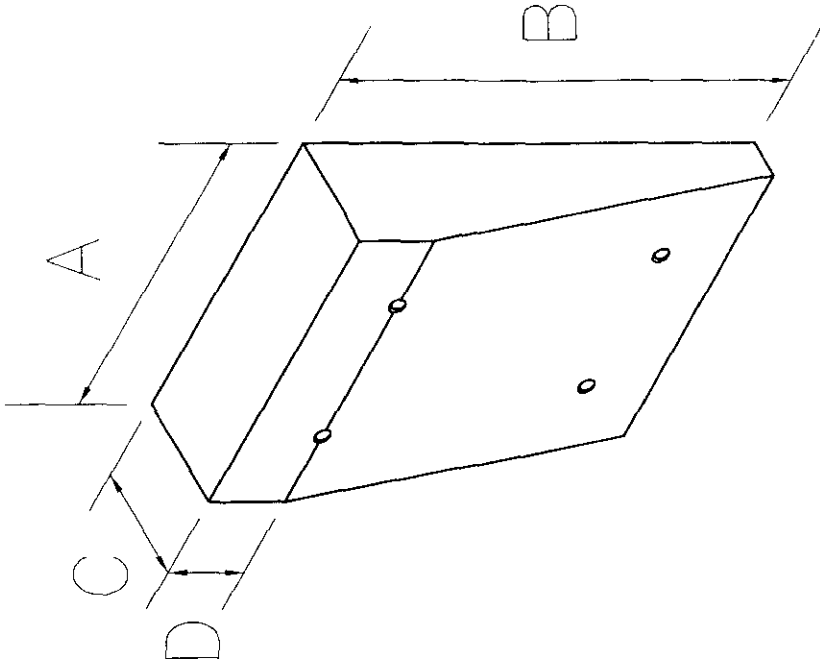
Draughted By: PJS Checked by: DF DATE: 26.10.01

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TIMBER CLEATS

- (1) TIMBER TO BE TREATED DOUGLAS FIR (SEE SPECIFICATION)
- (2) 4 No COUNTERSUNK HOLES 100mm FROM SIDES/TOP/BOTTOM (SEE SPECIFICATION CL. FOR FIXING)
- (3) CLEAT REF. 1 & 2 ARE TO REPLACE EXISTING. CLEAT REF 3 IS FOR NEW WALING.



CLEAT REF	A	B	C	D
1	400	600	150	100
2	400	380	150	50
3	400	600	200	100

Rev: Date: Description: AMENDMENT DETAILS Approved by: (Project Manager)



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P.D. JAMESON, B.Sc., C.Eng., F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/21
Structure No. A17/13.2
Rd No. A17 Parish: SUTTON BRIDGE
Scheme: CROSS KEYS BRIDGE FENDER REPAIRS
Drg. Description: TIMBER CLEATS

CONTRACT SHEET No: 21

SCALE: 1:10 Approved by (Project Manager): DF
DATE: 8.11.01

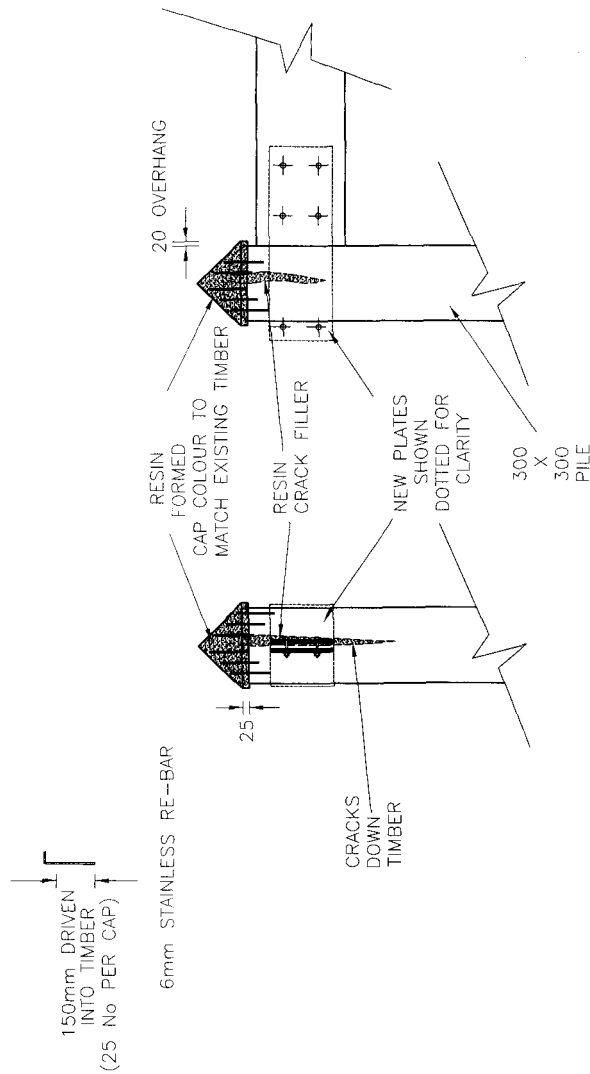
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STEP 1	PILE CAPS SHALL BE PRESSURE WASHED USING SUFFICIENT PRESSURE TO REMOVE MUD, MARINE GROWTH AND ALL OTHER SURFACE CONTAMINATION. THIS WILL INCLUDE ALL FACES TO THE EXTENT OF ANY CRACKS AND ALSO WITHIN THE CRACKS.
STEP 2	ALL AREAS TO BE TREATED SHALL BE SURFACE DRIED USING COMPRESSED AIR AND/OR HOT AIR DRIER.
STEP 3	THE INTERNAL EDGE OF THE CRACKS SHALL BE RESIN GROUT COATED TO A DEPTH OF 50mm AND THEN THE EDGES SEALED WITH RESIN PUTTY.
STEP 4	RESIN GROUT WILL BE POURED TO FILL THE CRACKS.
STEP 5	A 20mm WAXED TIMBER FORMER SHALL BE FIXED TO THE PILE AT THE BASE OF THE CONE.
STEP 6	THE 25 STAINLESS STEEL RODS SHALL BE DRIVEN 150mm INTO THE TOP OF THE PILE.
STEP 7	THE TOP OF THE PILE AND THE RODS SHALL BE COATED WITH RESIN GROUT.
STEP 8	THE CAP OF THE PILE WILL BE FORMED USING RESIN PUTTY.

- (1) ALL STEPS TO BE COMPLETED 1 HOUR BEFORE RETURN OF TIDE
- (2) THE SPECIFICATION FOR THE STAINLESS STEEL RODS, RESIN GROUT AND RESIN PUTTY IS GIVEN IN SECTION 7 OF THE SPECIFICATION.



1328/01

Rev: Date: Description:
AMENDMENT DETAIL 5

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HIGHWAYS & PLANNING DIRECTORATE
PD. JAMESON, B.Sc., C.Eng., F.I.C.E., Head of Technical Services
Witham Park House, Witham Park, Waterside South, Lincoln LN5 7JN

DRG.No. D/C02656/22

Structure No. A17/13.2

Rd No: A17 Parish: SUTTON BRIDGE

Scheme:

CROSS KEYS BRIDGE FENDER REPAIRS

CONTRACT SHEET No: 22

SCALE: 1:20 Approved by (Project Manager): DF

DATE: 8.11.01

Draughted By: PJS Checked by: DF DATE: 26.10.01

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