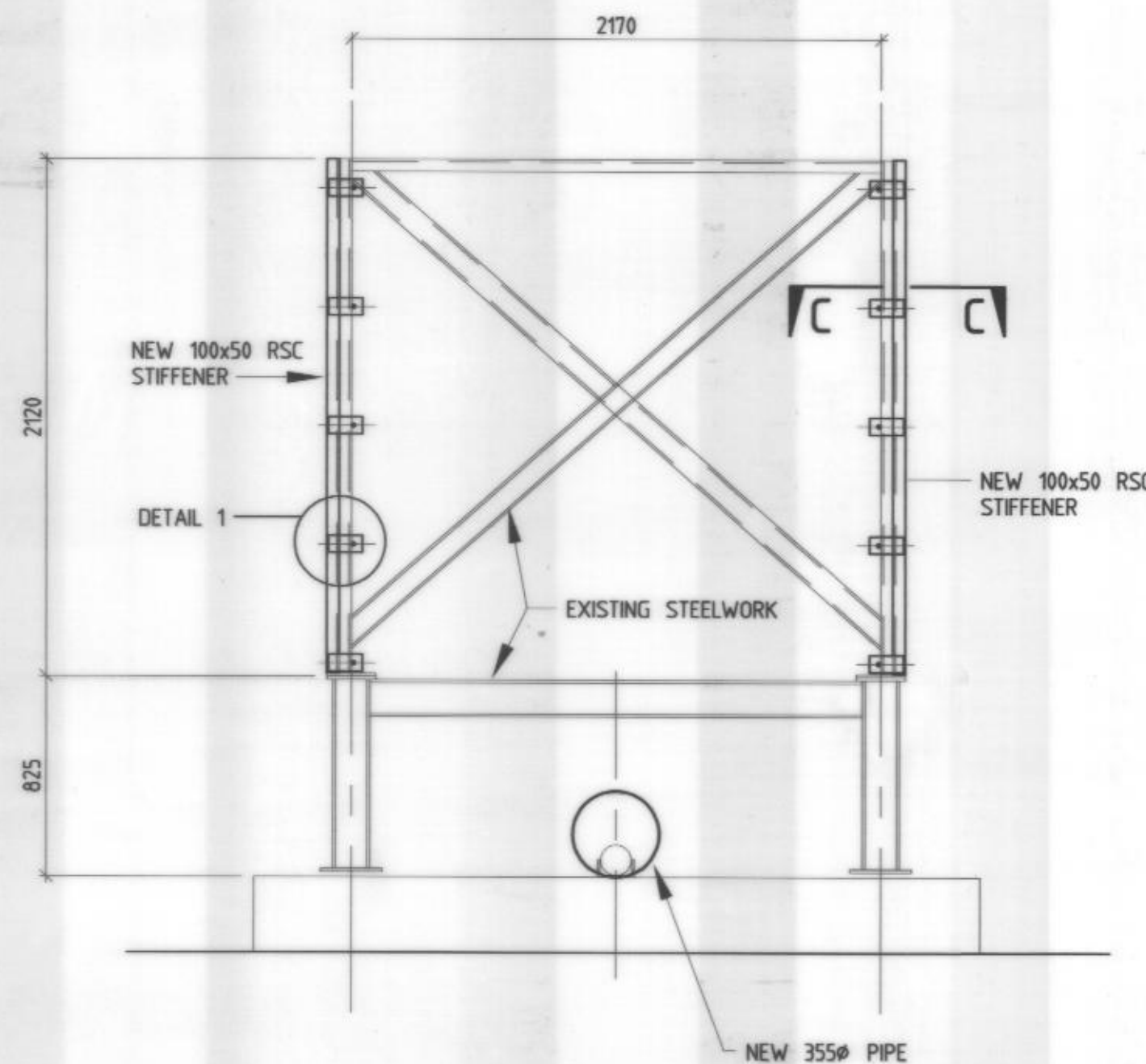
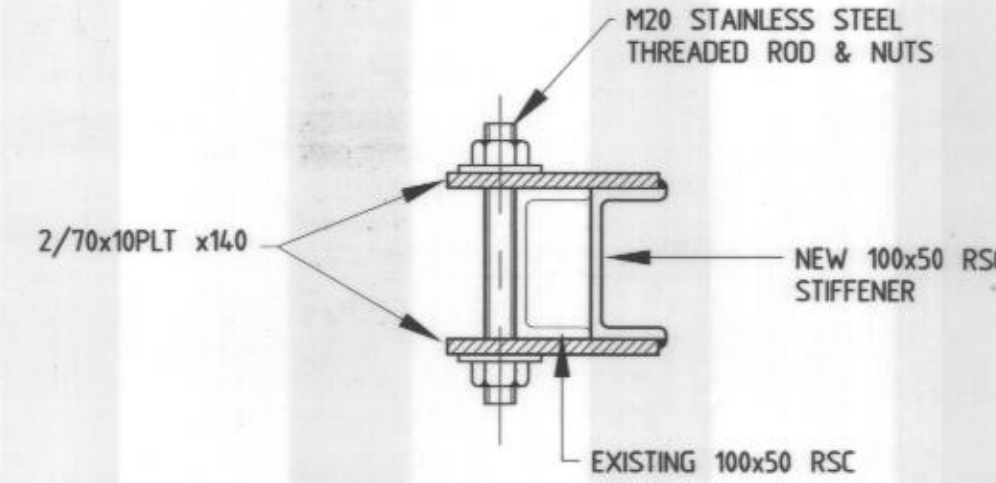


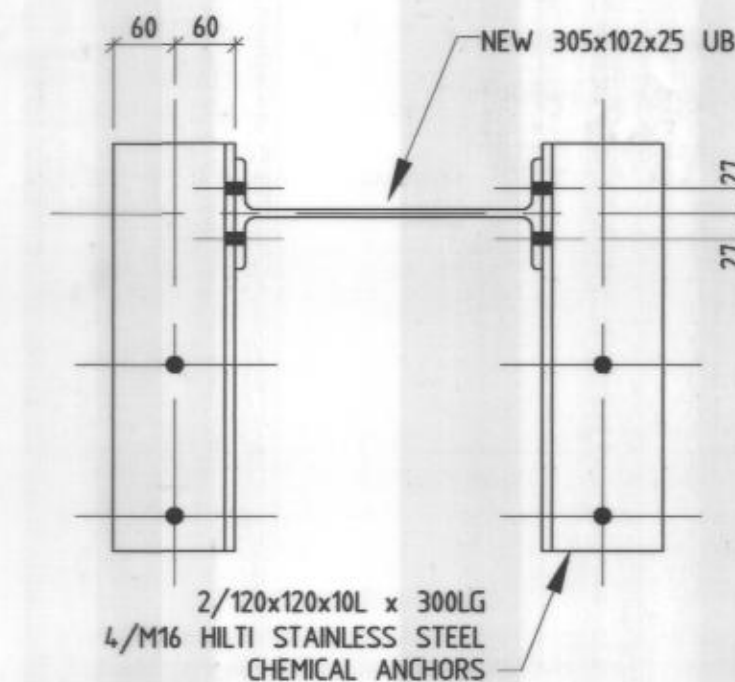
PART ELEVATION ON PIPE BRIDGE
SCALE 1:50



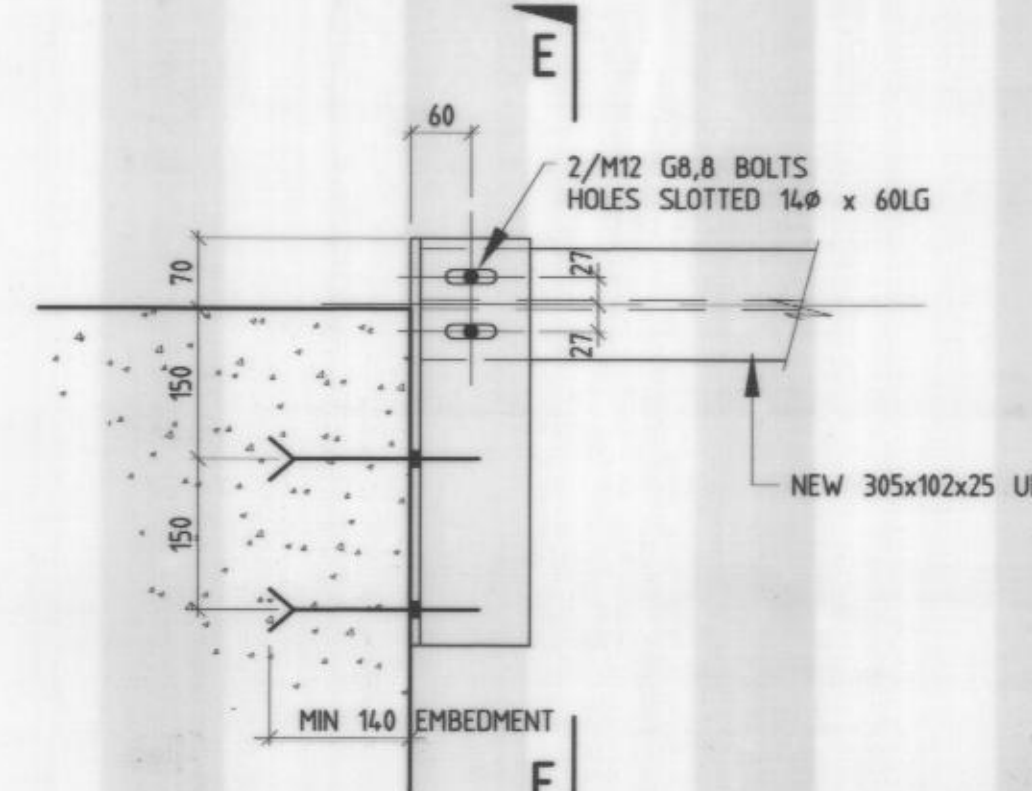
SECTION A-A
SCALE 1:25



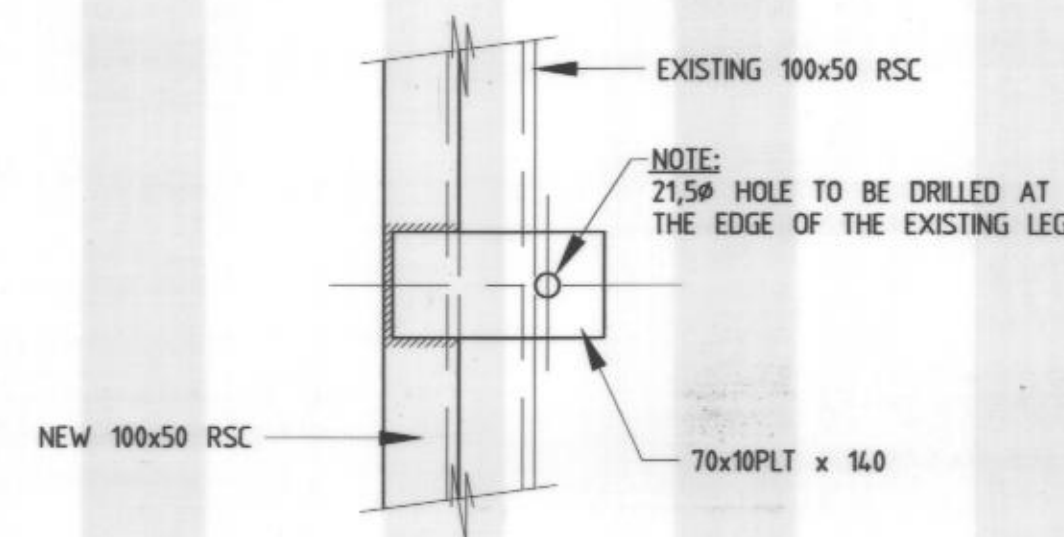
SECTION C-C
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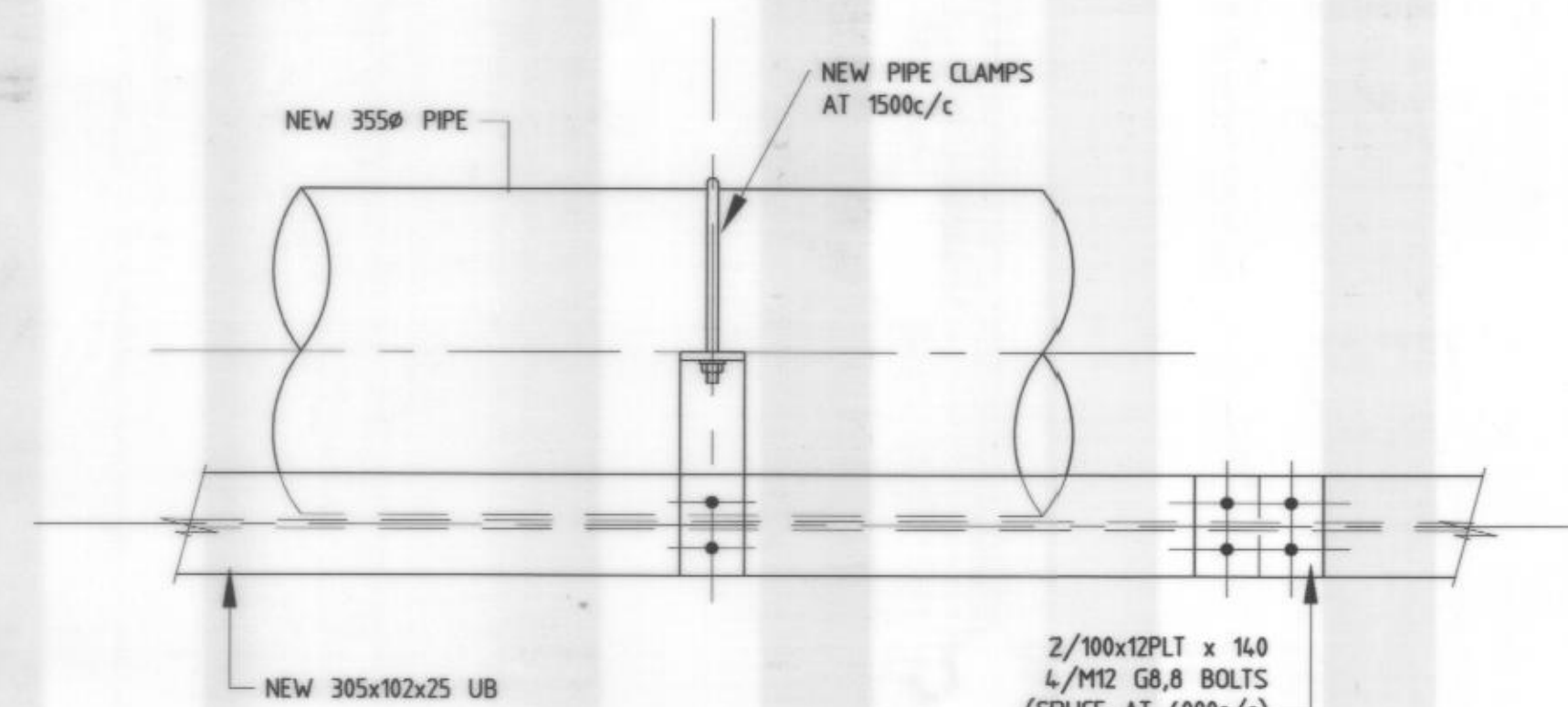
SECTION E-E
SCALE 1:7.5



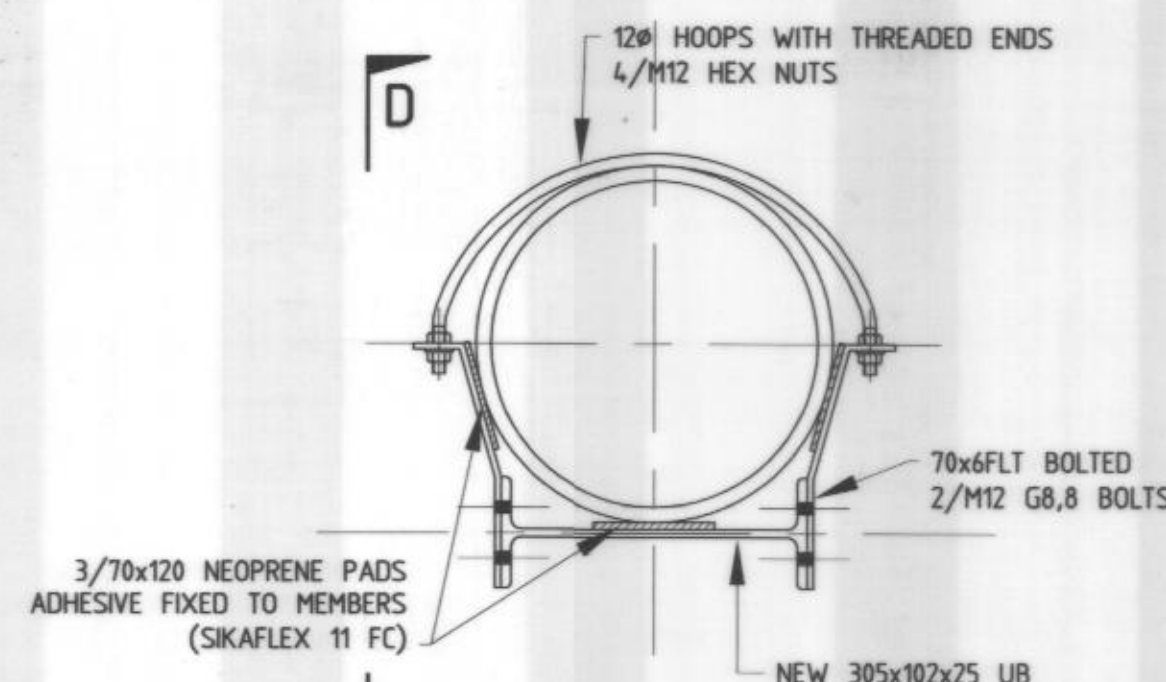
DETAIL 2
SCALE 1:7.5



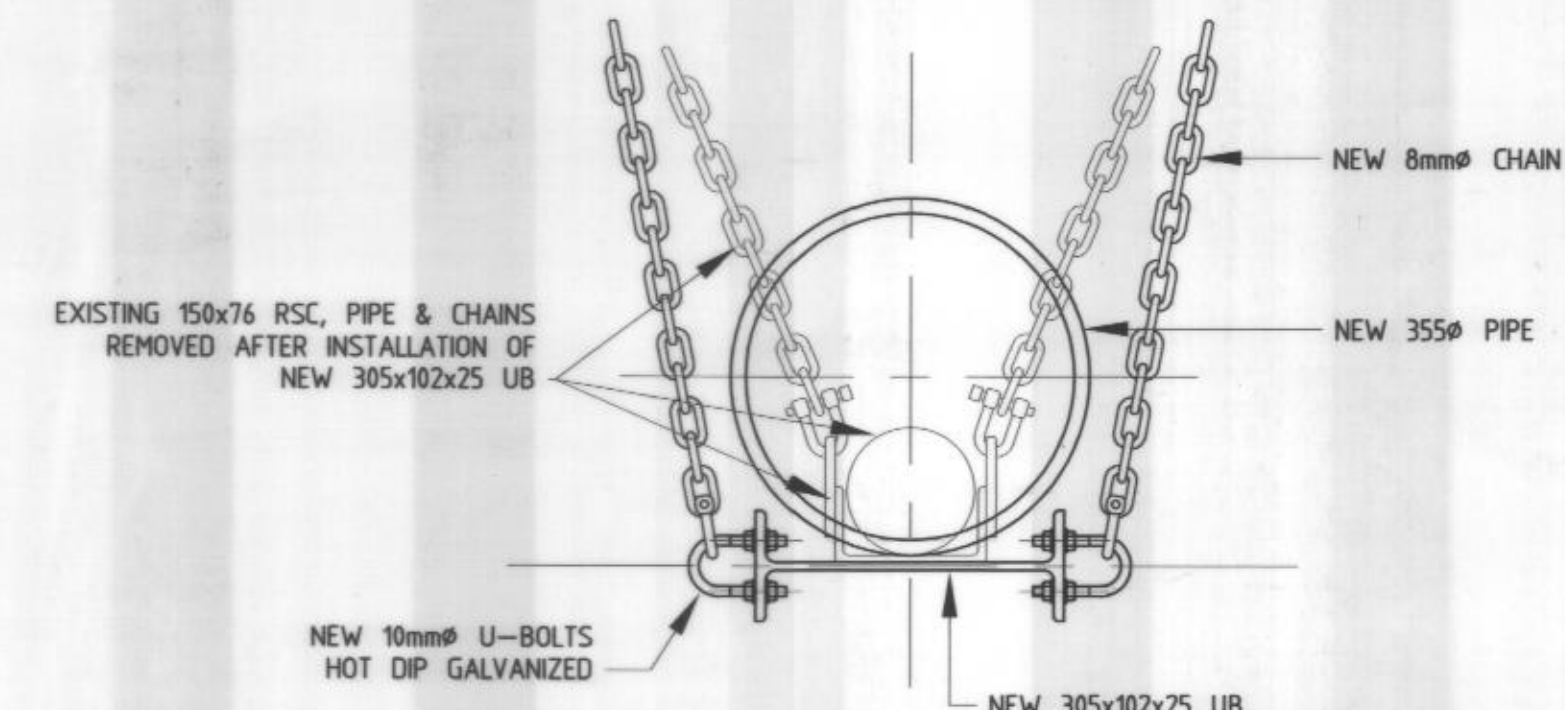
DETAIL 1
SCALE 1:10



SECTION D-D
PIPE CLAMP & SPLICE DETAIL
SCALE 1:7.5



PIPE CLAMP DETAIL
SCALE 1:7.5



SECTION B-B
SCALE 1:7.5

- NOTES**
1. STEEL WORK, (TO SANS 10120-2 H)
 - 1.1. U.N.O. ALL STEELWORK TO BE GRADE 300W AND COMPLY WITH REQUIREMENTS OF SANS 1631
 - 1.2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FINAL VERIFICATION OF ALL STEELWORK DIMENSIONS BEFORE MANUFACTURING ANY COMPONENT ON OR OFF SITE.
 - 1.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SHOP DETAILS. THE ENGINEER WILL REQUIRE FIVE WORKING DAYS FOR APPROVAL OF THE DRAWINGS.
 - 1.4. NO PUNCHING OF HOLES WILL BE PERMITTED.
 - 1.5. ALL BOLTS SHALL BE M20 G4,8 U.N.O.
 - 1.6. FLAME CUTTING OF HOLES WILL NOT BE PERMITTED.
 - 1.7. FLAME CUTTING OF HOLES OR EXISTING STEELWORK WILL NOT BE PERMITTED WITHOUT CLIENTS PRIOR PERMISSION.
 - 1.8. WELDING SHALL BE DONE BY, OR UNDER THE SUPERVISION OF CODED WELDERS.
 - 1.9. ALL WELDS TO BE 6FW CONTINUOUS U.N.O.
 2. SURFACE PROTECTION:
 - 2.1. ALL STEELWORK TO BE HOT DIP GALVANIZED AFTER MANUFACTURE TO SANS 121.
 - 2.2. SITE WELDS TO BE WIRE BRUSHED, COLD GALV. TOUCHED UP & PAINTED TWO COATS OF SILVER GLOSS ENAMEL.

A FOR CONSTRUCTION		NP	26.04.07
AMENDMENTS		APPR.	DATE
SURVEYED	FILE 9494-021.dwg		
PLOTTED	SURVEY CHECKED		
DRAWN RF	DRAWING CHECKED	NP	
DESIGNED NP	DESIGN CHECKED		
PLOT FILE	PLOT SCALE	1=1	

PROJECT MANAGER
DATE 26/4/07

PROJECT DIRECTOR
DATE 26/4/2007

NINHAM SHAND
CONSULTING SERVICES
PORT ELIZABETH

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KOUGA MUNICIPALITY

ST FRANCIS BAY
BULK WATER PIPELINE

SEEKOEI RIVER CROSSING

SCALE	SHEET OF SHEETS
AS SHOWN	
DRAWING No	REVISION
9494 PE 021	A