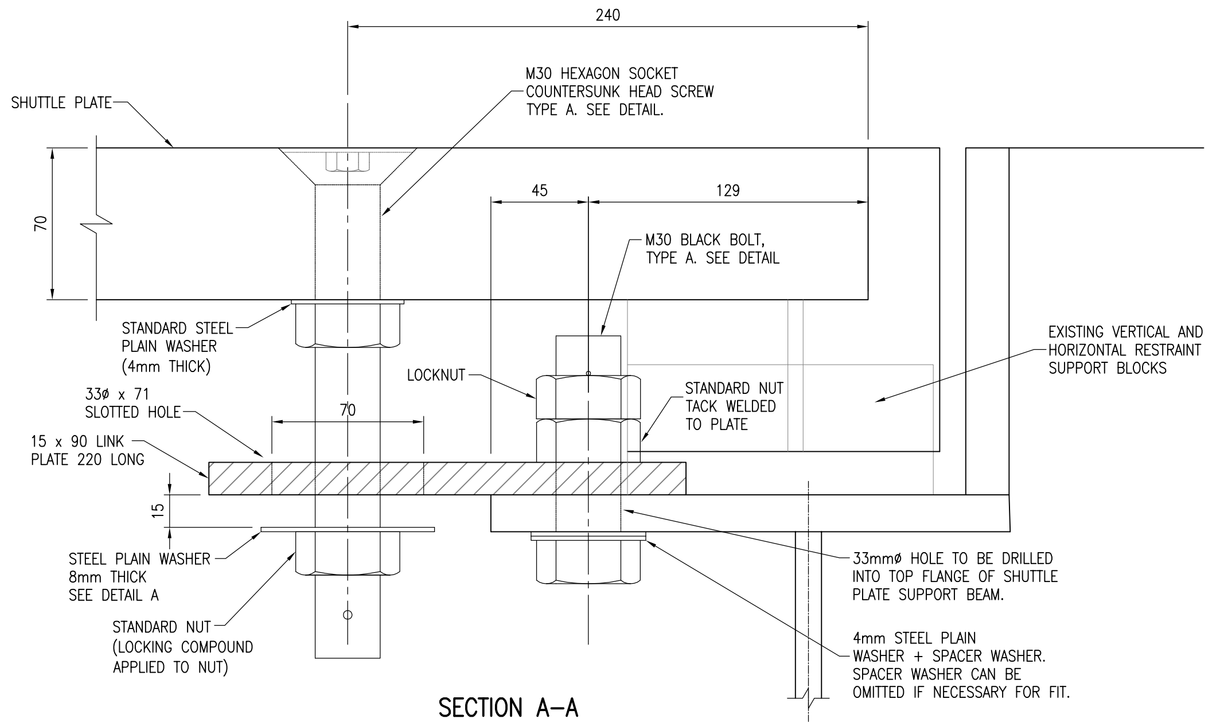
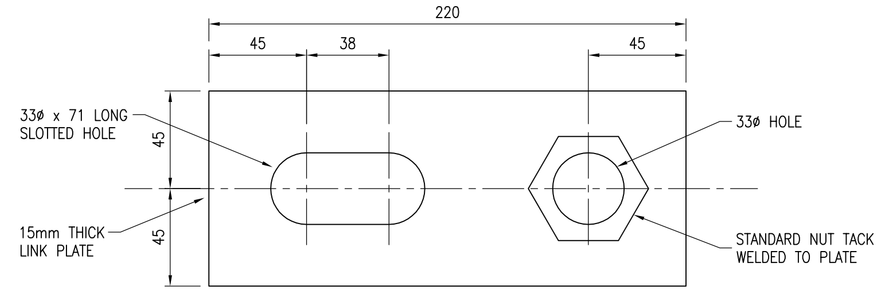
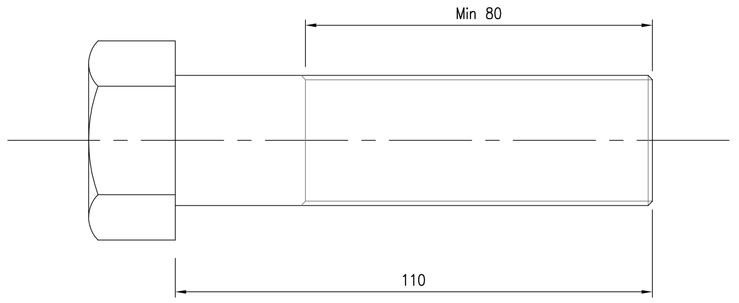


SECTION A–A

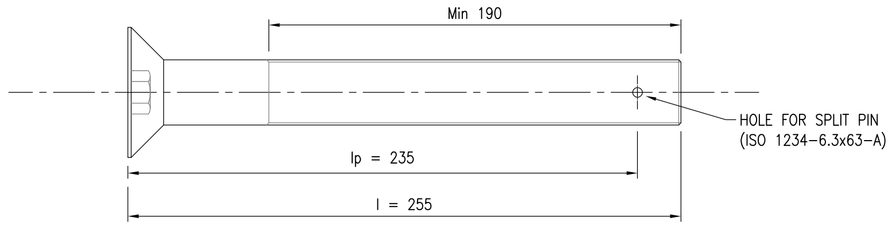


PLAN ON LINK PLATE – 2 No. PER PLATE
(Scale 1:2)



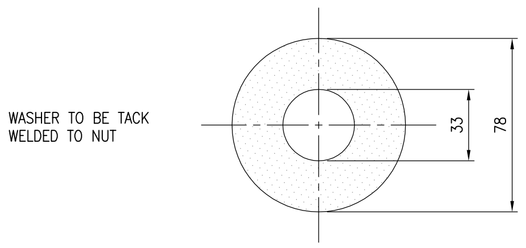
BOLT TYPE A (M30x110, Grade 8.8 TO BS3692)
96 No. Reqd
(Scale 1:1)

* DIMENSION MAY REDUCE ACCORDING TO EXTENT OF WEAR IN SHUTTLE PLATE SUPPORT BLOCKS
EACH BOLT TO HAVE 2 STANDARD NUTS (1 TACK WELDED TO LINK PLATE) GRADE 8

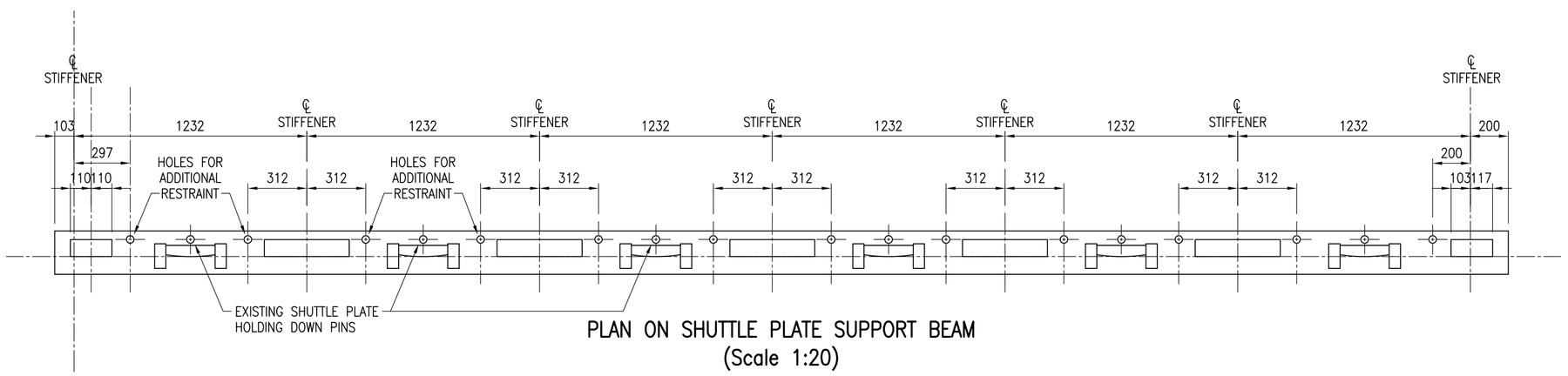


COUNTERSUNK HEAD SCREW TYPE A
(M30x250, Grade 8.8 TO EN ISO 10642)
96 No. Reqd.
(Scale 1:2)

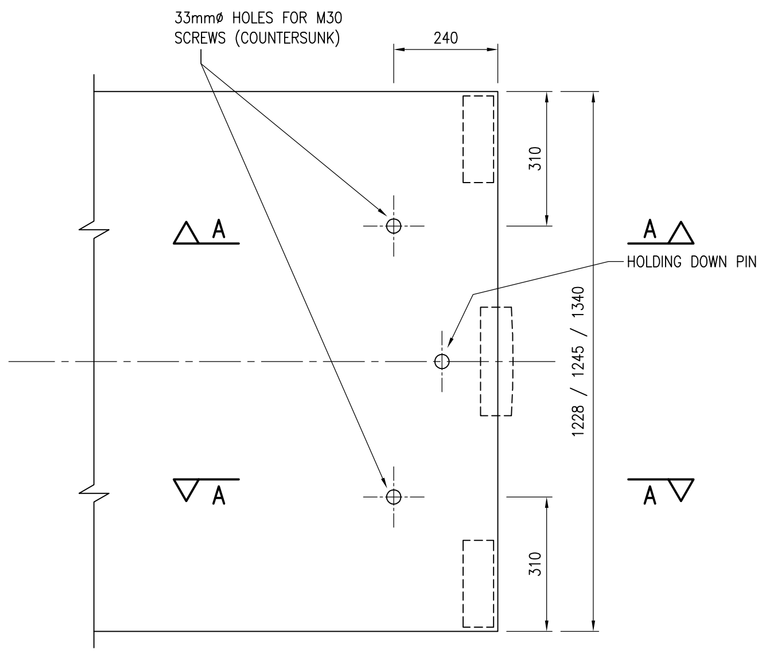
EACH SCREW TO HAVE 2 STANDARD NUTS, GRADE 8, 1 STANDARD FLAT WASHER HARDNESS CLASS 200 HV AND 1 LARGE WASHER (SEE DETAIL) AND 1 SPLIT PIN.



DETAIL A
PLAN ON STEEL PLAIN WASHER TO SCREW UNDER LINK PLATE
(Scale 1:2)



PLAN ON SHUTTLE PLATE SUPPORT BEAM
(Scale 1:20)



PLAN ON SHUTTLE PLATE
48No. Plates
(Scale 1:10)

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE BASED ON ORIGINAL CONSTRUCTION DRAWINGS AND MAY DIFFER FROM ACTUAL DIMENSIONS ON SITE, IN PARTICULAR AS THERE IS WEAR IN THE SHUTTLE PLATE HORIZONTAL AND VERTICAL RESTRAINT JOINTS.
3. FOR FULL LIST OF NUMBER OF COMPONENTS, SPECIFICATION AND GRADES REFER TO APPENDIX 18/1 OF THE SPECIFICATION.
4. ALL METAL COMPONENTS TO BE HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO 1461.
5. COMPONENTS TO BE PREASSEMBLED TO CHECK FOR FIT.
6. SCREW TYPE A IS A NON STANDARD DIAMETER. BUYER TO CHECK AVAILABILITY/ORDER PERIOD..

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS

CONSTRUCTION
WORK AT HEIGHT, HIGH WINDS AND LIMITED WORKING SPACE, SITE DRILLING

MAINTENANCE/CLEANING
WORK AT HEIGHT, HIGH WINDS AND LIMITED WORKING SPACE.

USE
NONE

DECOMMISSIONING/DEMOLITION
WORK AT HEIGHT, HIGH WINDS AND LIMITED WORKING SPACE.

Stat	Rev	Purpose of Issue	Date	Auth
C		FOR CONSTRUCTION	08/09	DRT
P		FOR CHECK	04/09	

Rev	Description	By	Date	Chk'd	Auth
D	WASHERS SHOWN IN SECTION A–A CLARIFIED	GV	24/09/09	DRT	SHJ
	SPLIT PIN HOLE DELETED FROM BOLT A				
	SPLIT PIN ADDED IN SCREW A IN SECTION A–A				
C	NOTE 5 ADDED	GV	02/07/09		
B	PLAN ON SUPPORT BEAM ADDED	GV	18/06/09	DRT	SHJ
A	FIRST ISSUE	GV	27/04/09	DRT	SHJ

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Client
FORTH ESTUARY TRANSPORT AUTHORITY

Project
FORTH ROAD BRIDGE
JOINT REPLACEMENT

Title
FAILSAFE MEASURES
DETAIL OF RESTRAINT TO ANCHORED END OF SHUTTLE PLATE

Sheet Size	Original Scale	Designed/Drawn	Checked	Authorised
A1	As Shown	GV Date 04/09	DRT Date 04/09	SHJ Date 04/09

Status	Drawing Number	Rev
C	5057541/314/100	D

Rev D
Drawing Number 5057541/314/100
Status C
DO NOT SCALE
A1
0 10 100
File: 5057541_314_100_RevD.dwg
Date: Sep 24, 2009 – 2:57pm Plotted by: voyc4793
P:\GBBSB\HandT\TSol\CN\5057541_301 Forth Bridge_JONE1651\70 Drawings\5057541_314_100_RevD.dwg