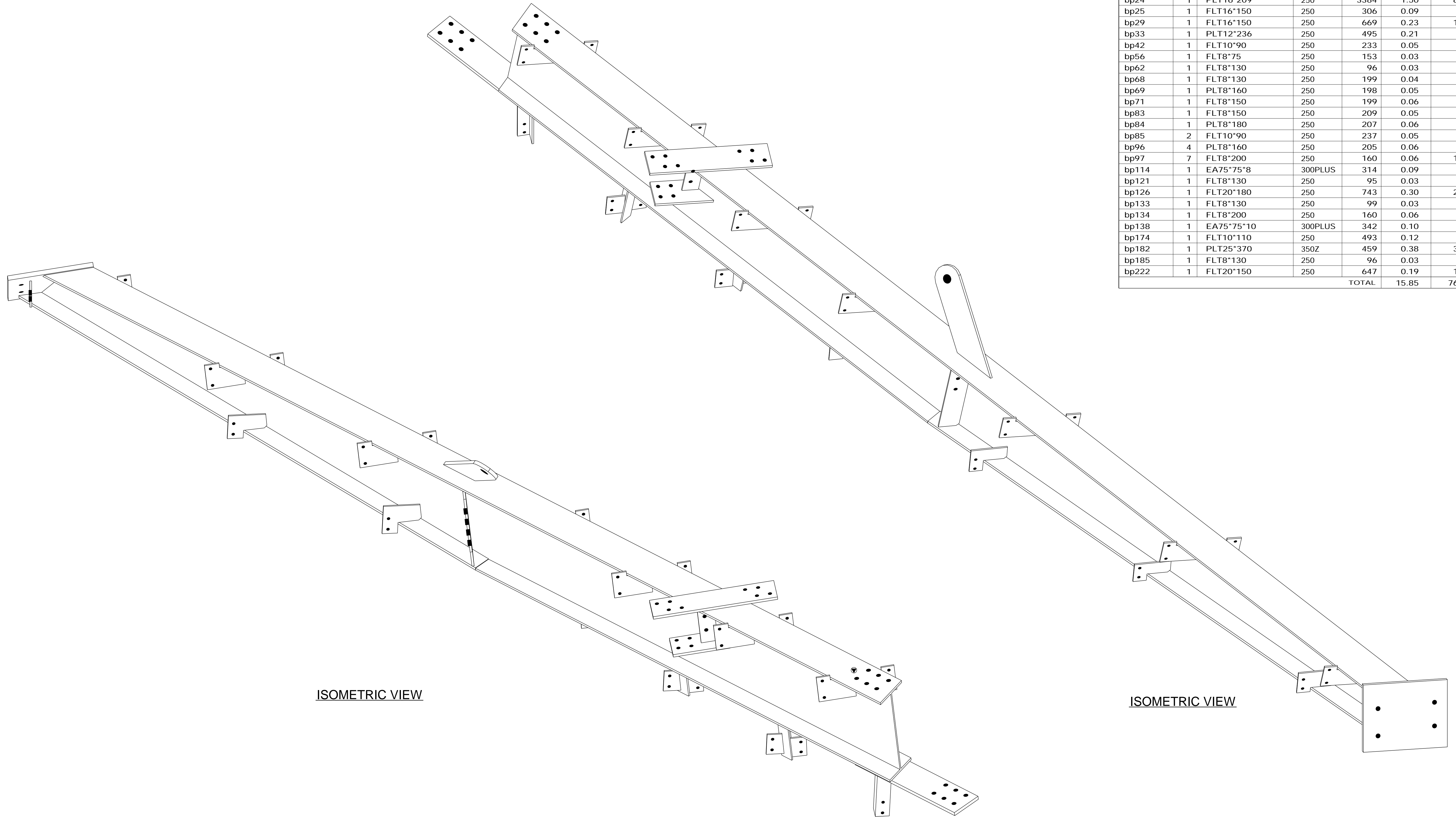


MATERIAL LIST FOR ONE ASSEMBLY MK'D					2CB2		1 Ass. Req'd.
ITEM	No.	SECTION	GRADE	LENGTH	AREA(m ²)	WEIGHT(kg)	
bm5	1	UB530*82	300PLUS	6396	11.83	527.2	
bp1	1	FLT10*180	250	90	0.04	1.3	
bp22	1	FLT16*150	250	319	0.09	4.9	
bp24	1	PLT16*209	250	3384	1.50	86.8	
bp25	1	FLT16*150	250	306	0.09	4.7	
bp29	1	FLT16*150	250	669	0.23	12.6	
bp33	1	PLT12*236	250	495	0.21	9.0	
bp42	1	FLT10*90	250	233	0.05	1.6	
bp56	1	FLT8*75	250	153	0.03	0.7	
bp62	1	FLT8*130	250	96	0.03	0.7	
bp68	1	FLT8*130	250	199	0.04	1.2	
bp69	1	PLT8*160	250	198	0.05	1.4	
bp71	1	FLT8*150	250	199	0.06	1.6	
bp83	1	FLT8*150	250	209	0.05	1.5	
bp84	1	PLT8*180	250	207	0.06	1.7	
bp85	2	FLT10*90	250	237	0.05	3.3	
bp96	4	PLT8*160	250	205	0.06	7.3	
bp97	7	FLT8*200	250	160	0.06	12.4	
bp114	1	EA75*75*8	300PLUS	314	0.09	2.7	
bp121	1	FLT8*130	250	95	0.03	0.7	
bp126	1	FLT20*180	250	743	0.30	21.0	
bp133	1	FLT8*130	250	99	0.03	0.8	
bp134	1	FLT8*200	250	160	0.06	1.8	
bp138	1	EA75*75*10	300PLUS	342	0.10	3.6	
bp174	1	FLT10*110	250	493	0.12	4.2	
bp182	1	PLT25*370	350Z	459	0.38	33.3	
bp185	1	FLT8*130	250	96	0.03	0.8	
bp222	1	FLT20*150	250	647	0.19	12.7	
TOTAL					15.85	761.6	



ISOMETRIC VIEW

ISOMETRIC VIEW

1 BEAM (S) REQUIRED MK 2CB2

GENERAL NOTES

1. WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS F.S
7. ALL HOLES Ø22 U.N.O.

PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB2-1 -2 -3

Xtech Drafting Pty. L td.

A.B.N. 69 079 793 122
14/37 - 39 ALBERT RD. MELBOURNE. VIC. AUSTRALIA. 3004
PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698

JOHN HOLLAND PTY. LTD.
415 Johnston St. Abbotsford. 3067

DESIGN ENGINEER:

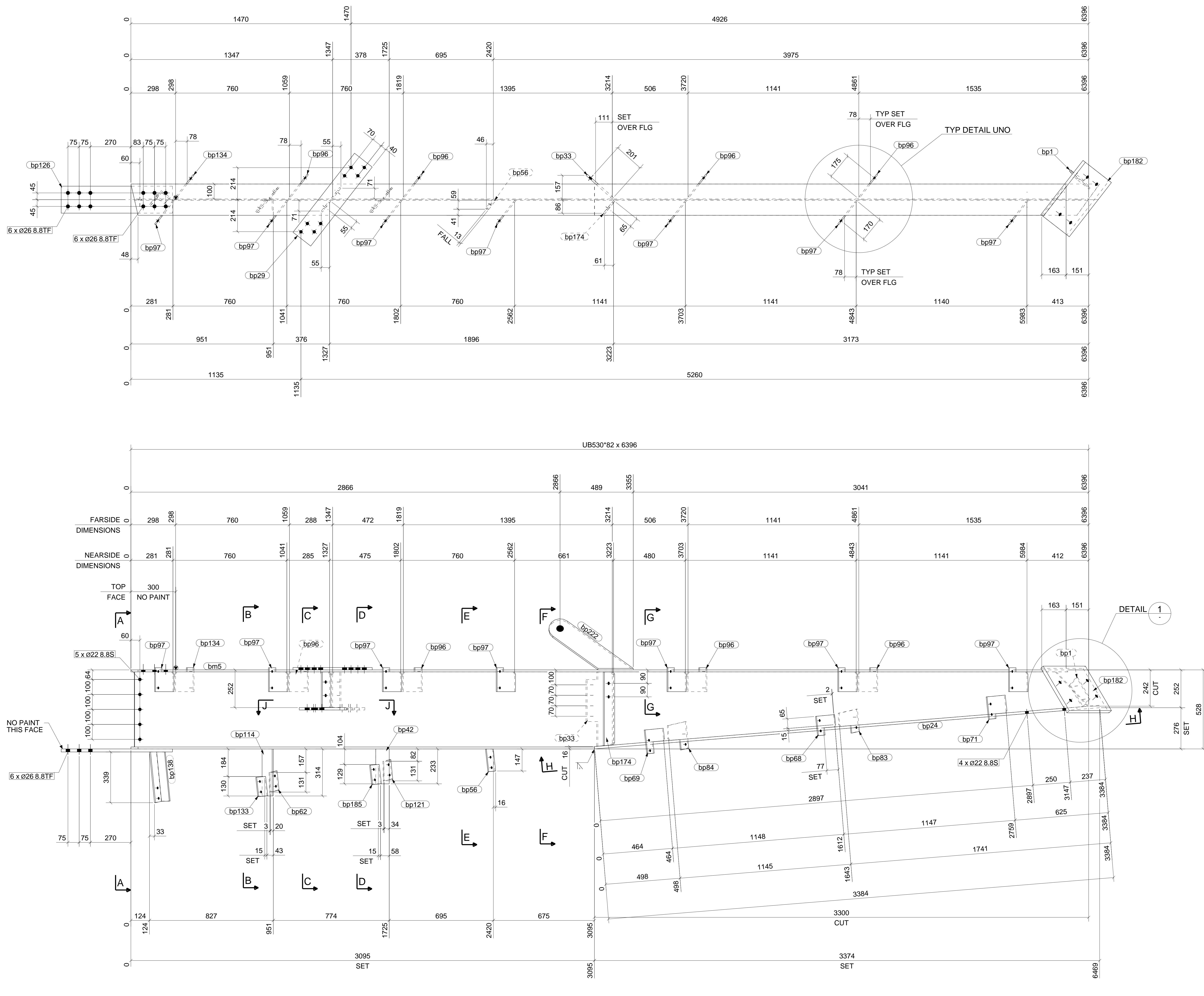
**SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM**

DRAWN: AM
DATE: 02.12.11

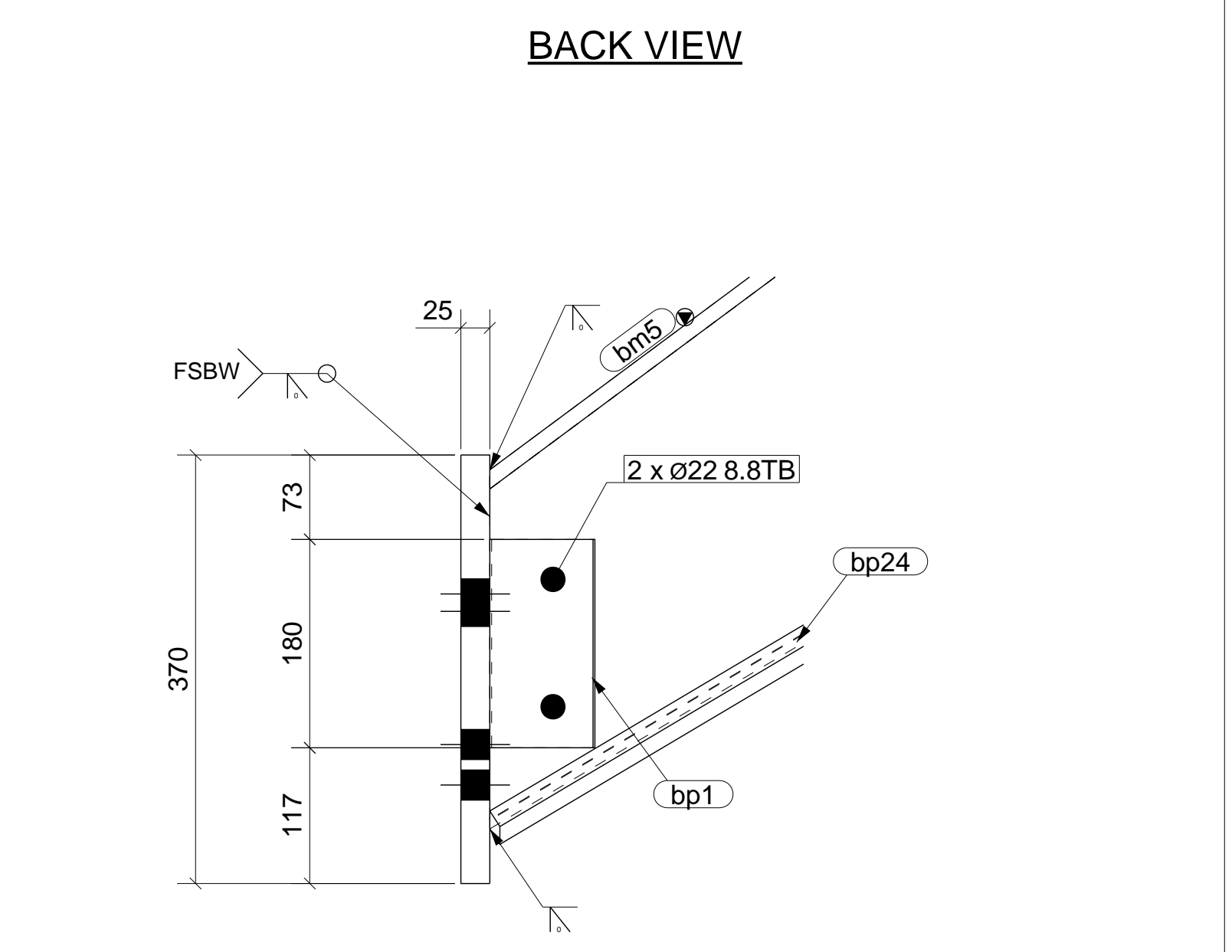
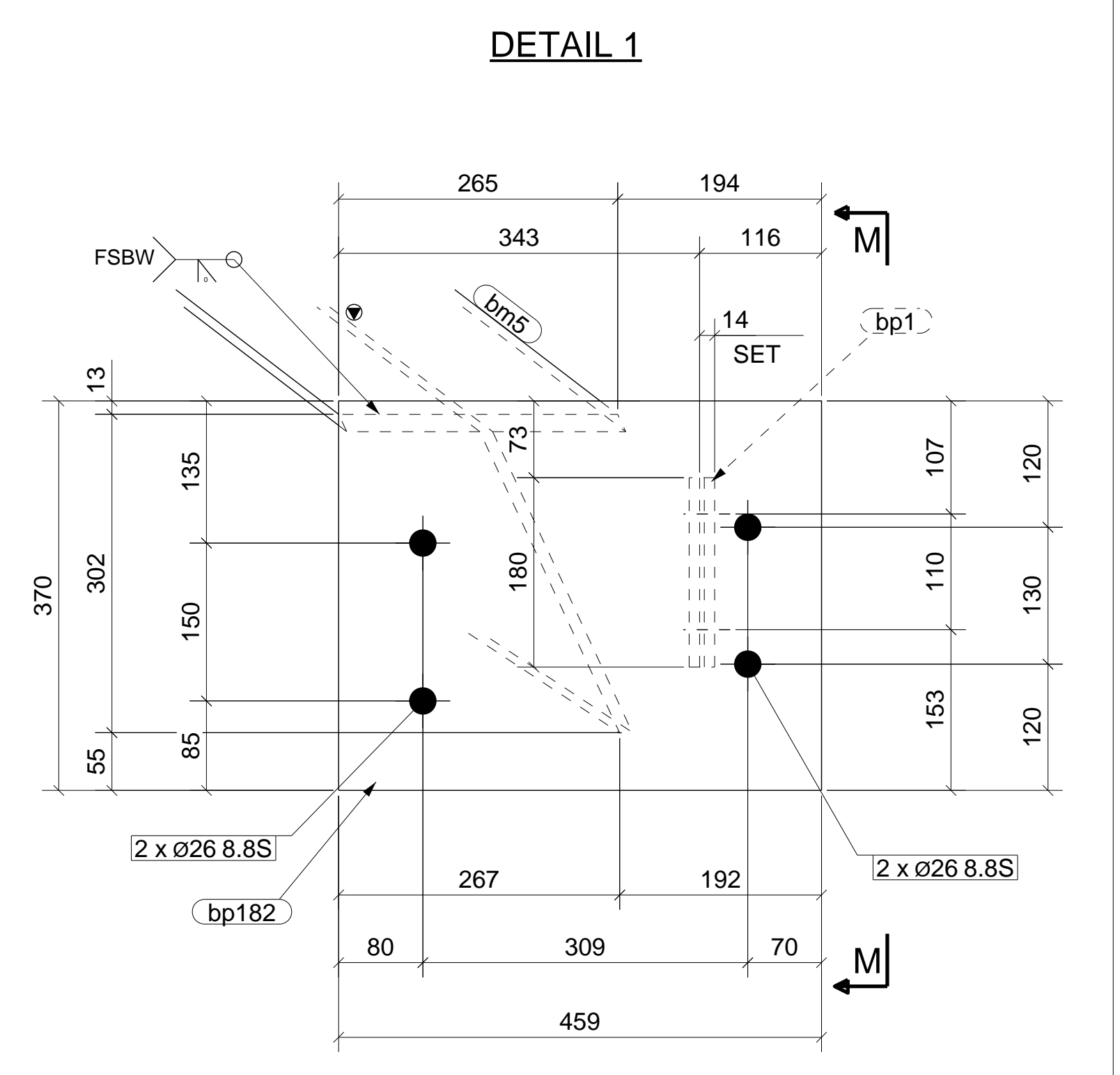
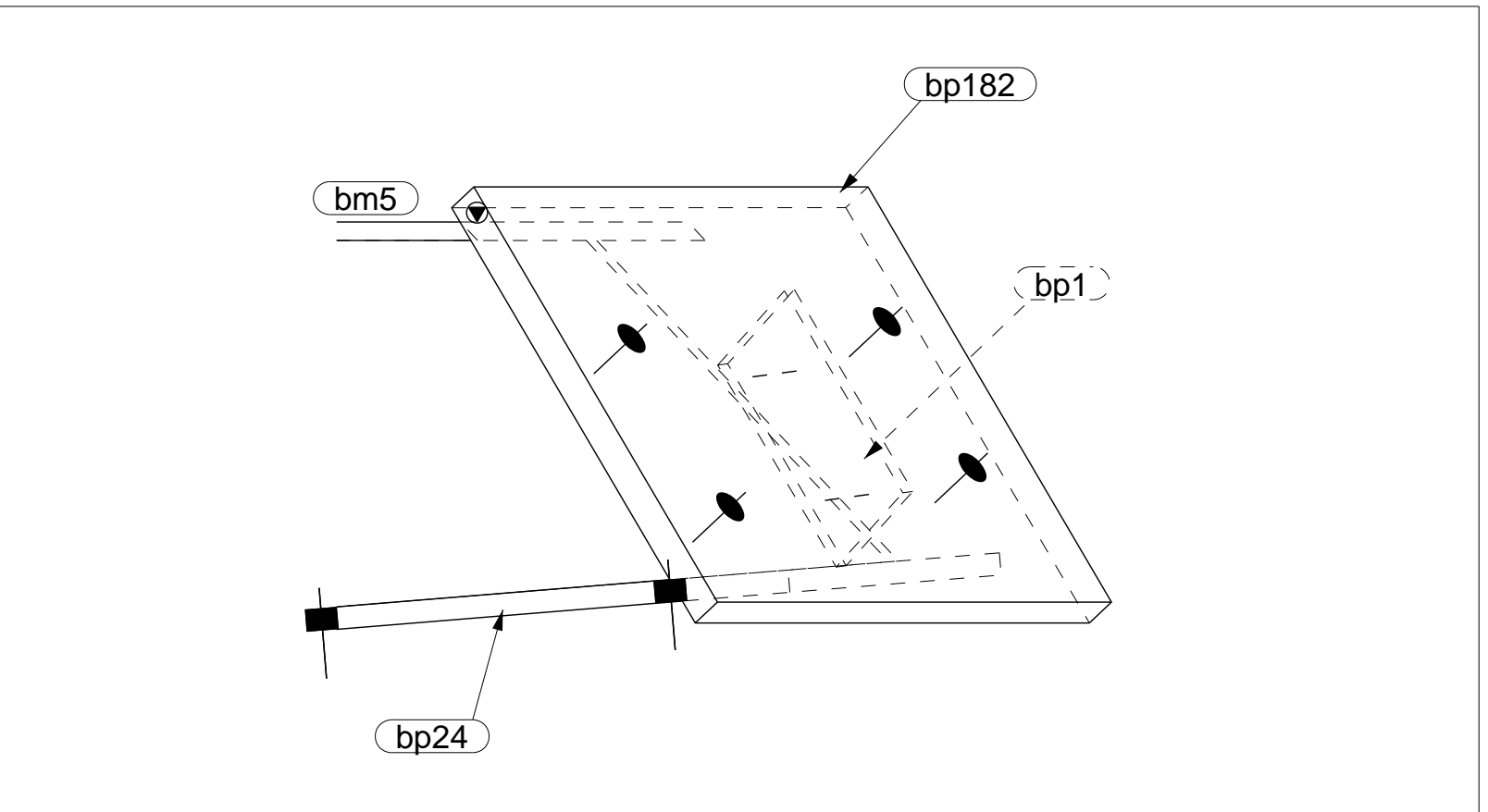
CHECKED: XTD
SCALE: 1:10

DRAWING No.	REV.
SMG-2CB2-1	A

No	REV.	DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11



MATERIAL LIST FOR ONE ASSEMBLY MK'D						2CB2	1 Ass. Req'd.
ITEM	No.	SECTION	GRADE	LENGTH	AREA(m ²)	WEIGHT(kg)	
bm5	1	UB530*82	300PLUS	6396	11.83	527.2	
bp1	1	FLT10*180	250	90	0.04	1.3	
bp22	1	FLT16*150	250	319	0.09	4.9	
bp24	1	PLT16*209	250	3384	1.50	86.8	
bp25	1	FLT16*150	250	306	0.09	4.7	
bp29	1	FLT16*150	250	669	0.23	12.6	
bp33	1	PLT12*236	250	495	0.21	9.0	
bp42	1	FLT10*90	250	233	0.05	1.6	
bp56	1	FLT8*75	250	153	0.03	0.7	
bp62	1	FLT8*130	250	96	0.03	0.7	
bp68	1	FLT8*130	250	199	0.04	1.2	
bp69	1	PLT8*160	250	198	0.05	1.4	
bp71	1	FLT8*150	250	199	0.06	1.6	
bp83	1	FLT8*150	250	209	0.05	1.5	
bp84	1	PLT8*180	250	207	0.06	1.7	
bp85	2	FLT10*90	250	237	0.05	3.3	
bp96	4	PLT8*160	250	205	0.06	7.3	
bp97	7	FLT8*200	250	160	0.06	12.4	
bp114	1	EA75*75*8	300PLUS	314	0.09	2.7	
bp121	1	FLT8*130	250	95	0.03	0.7	
bp126	1	FLT20*180	250	743	0.30	21.0	
bp133	1	FLT8*130	250	99	0.03	0.8	
bp134	1	FLT8*200	250	140	0.06	1.8	
bp138	1	EA75*75*10	300PLUS	342	0.10	3.6	
bp174	1	FLT10*110	250	493	0.12	4.2	
bp182	1	PLT25*370	350Z	459	0.38	33.3	
bp185	1	FLT8*130	250	96	0.03	0.8	
bp222	1	FLT20*150	250	647	0.19	12.7	
TOTAL						15.85	761.6



NOTE:
READ IN CONJUNCTION WITH DRG NO 2CB2-3
FOR SECTION DETAILS

1 BEAM (S) REQUIRED MK 2CB2

GENERAL NOTES

1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BOLT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF FF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS: ∇ N.S. \odot F.S.
7. ALL HOLES Ø2 UN.D.

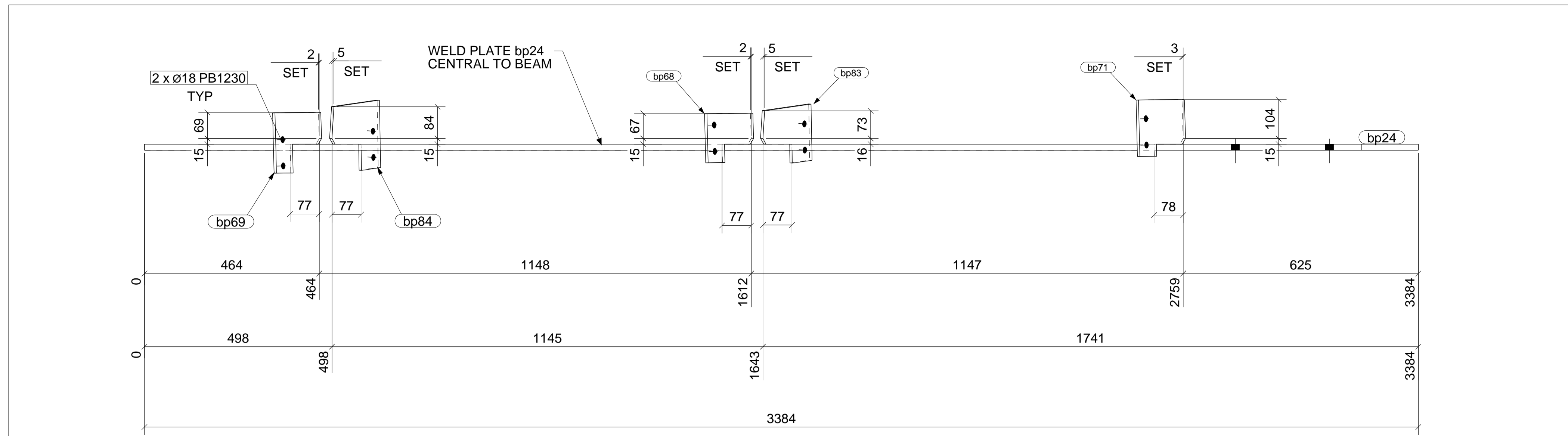
PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB2-1-2-3

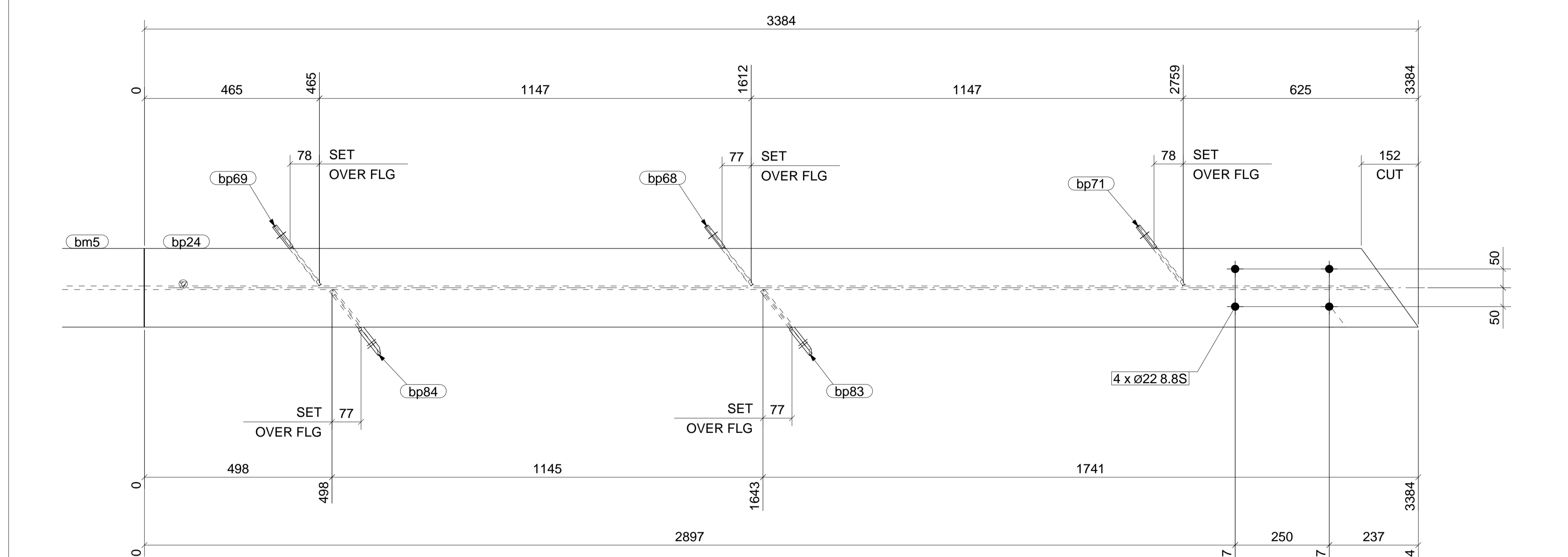
Xtech Drafting Pty. L td.
14/37 - 39 ALBERT RD, MELBOURNE, VIC. AUSTRALIA, 3004
PH: +61 3 9666 1015 FAX: +61 3 9666 1016 MOB: 0411 566 698
JOHN HOLLAND PTY. LTD.
415 Johnston St. Abbotsford 3067

SOUTH MORANG RAIL EXTENSION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM

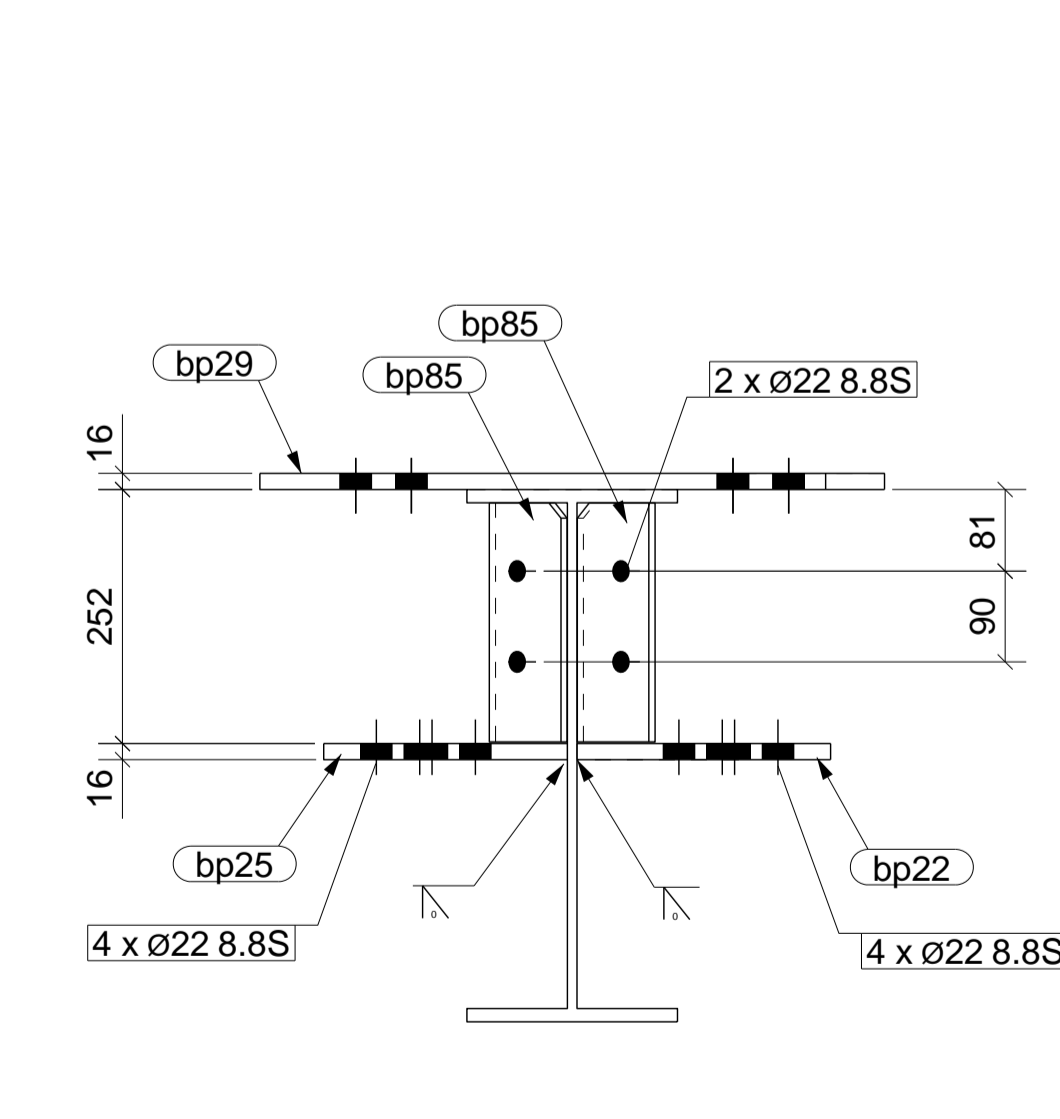
DESIGN ENGINEER:	DRAWN: AM	CHECKED: XTD	DRAWING No.	REV.
	DATE: 02.12.11	SCALE: 1:5	SMG-2CB2-2	A



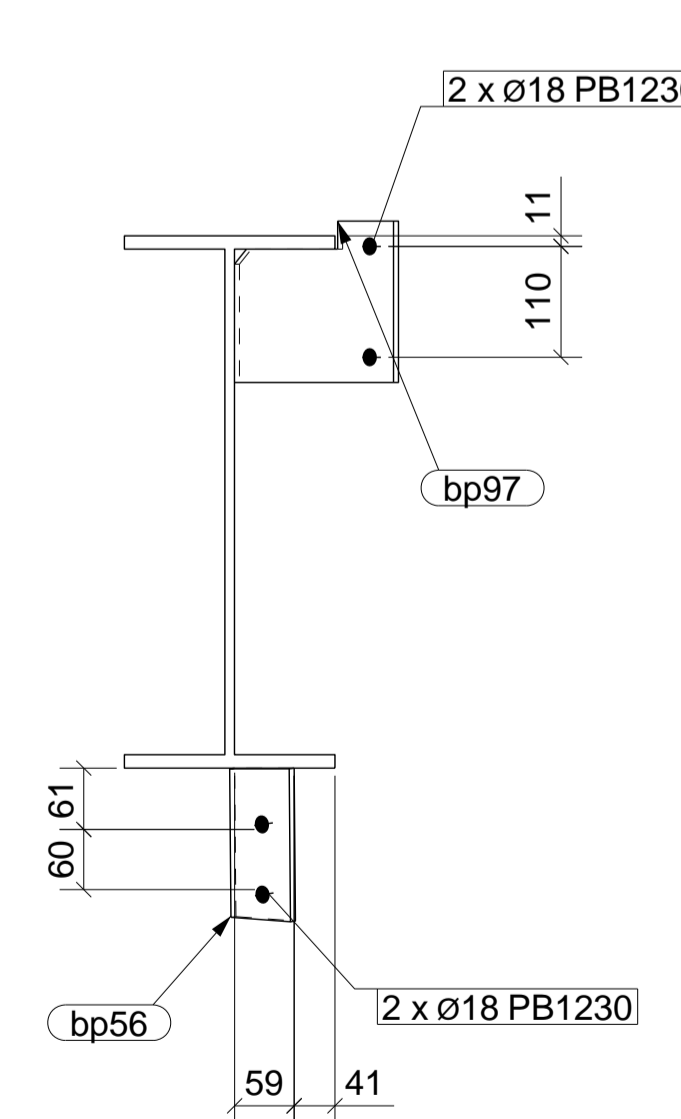
TOP VIEW



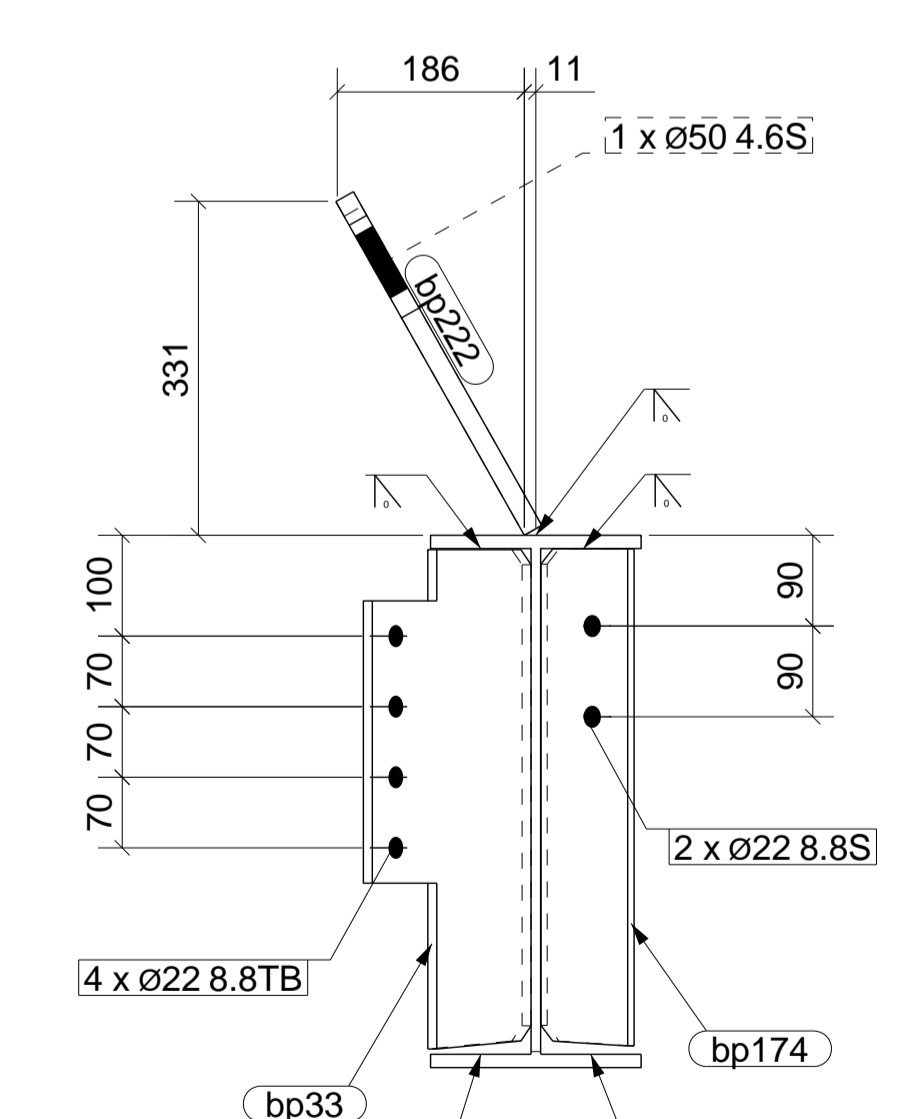
SECTION H



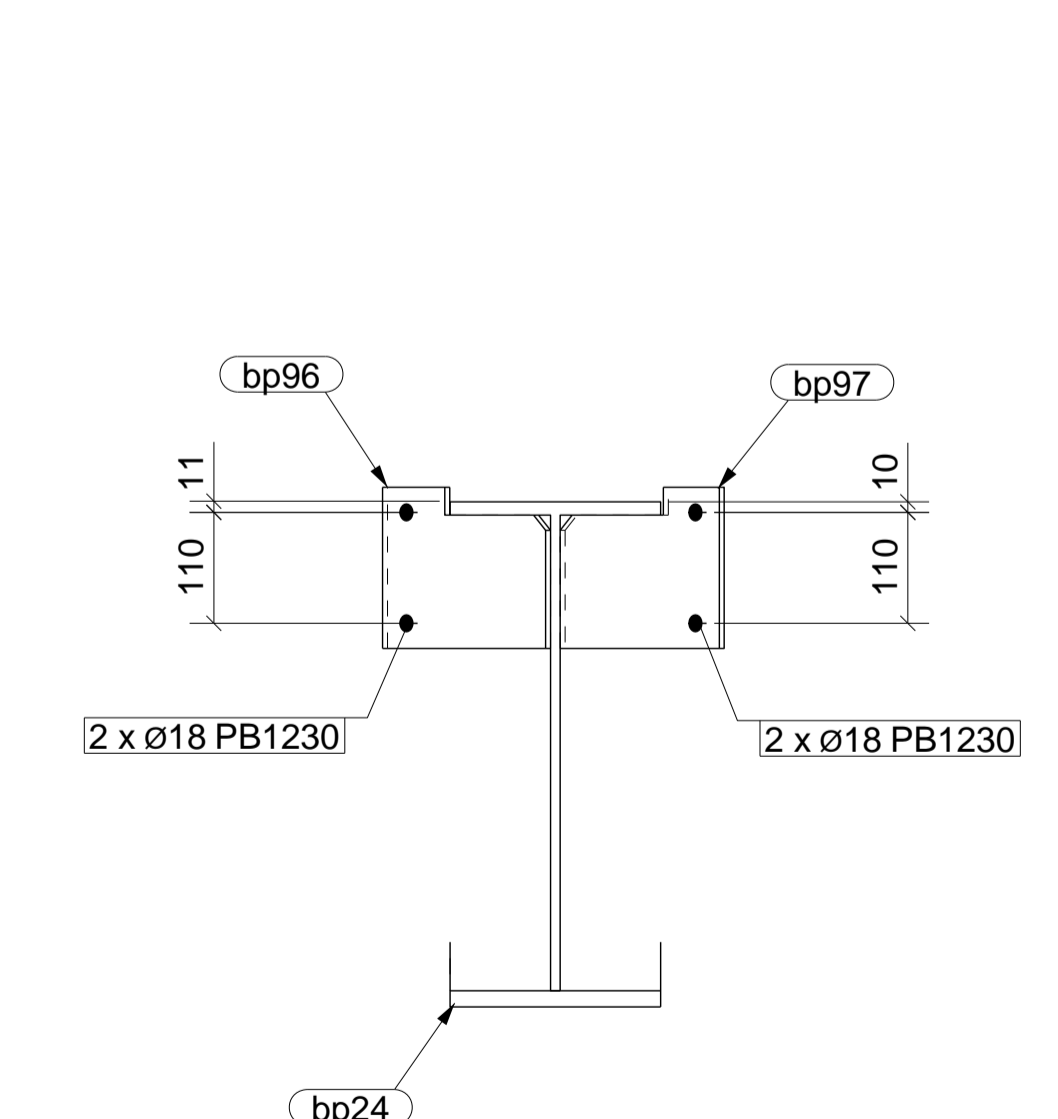
SECTION C



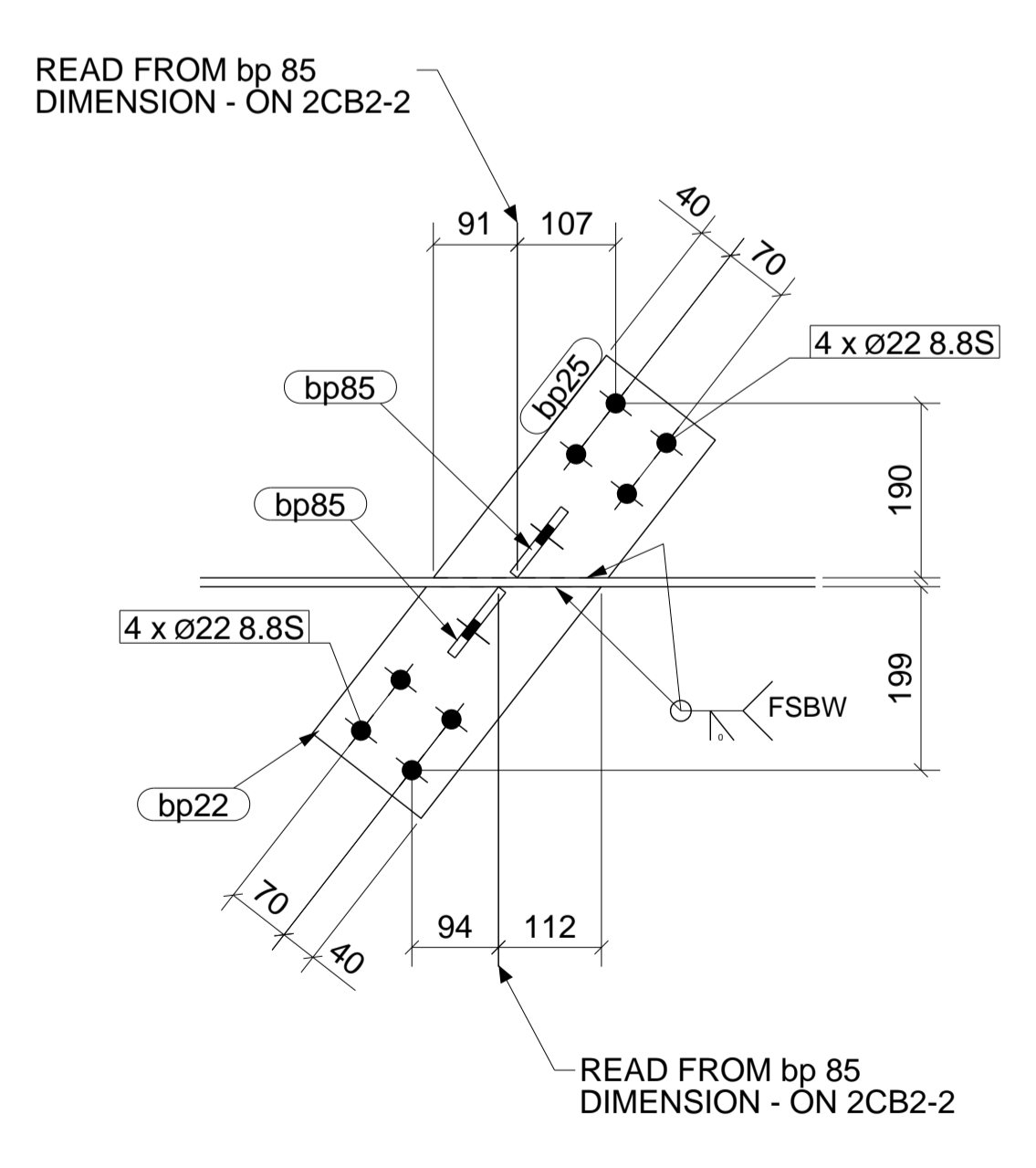
SECTION E



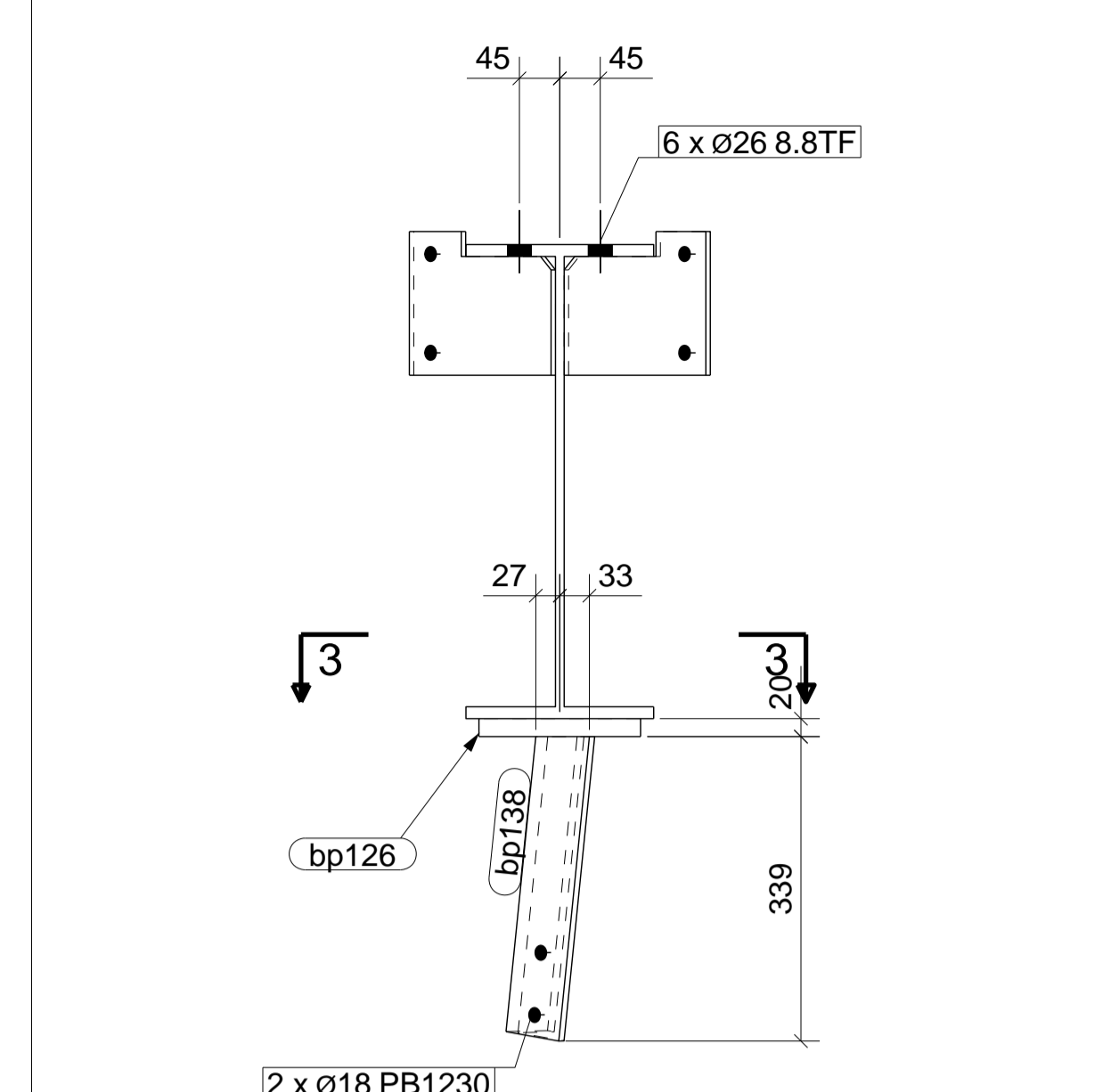
SECTION F



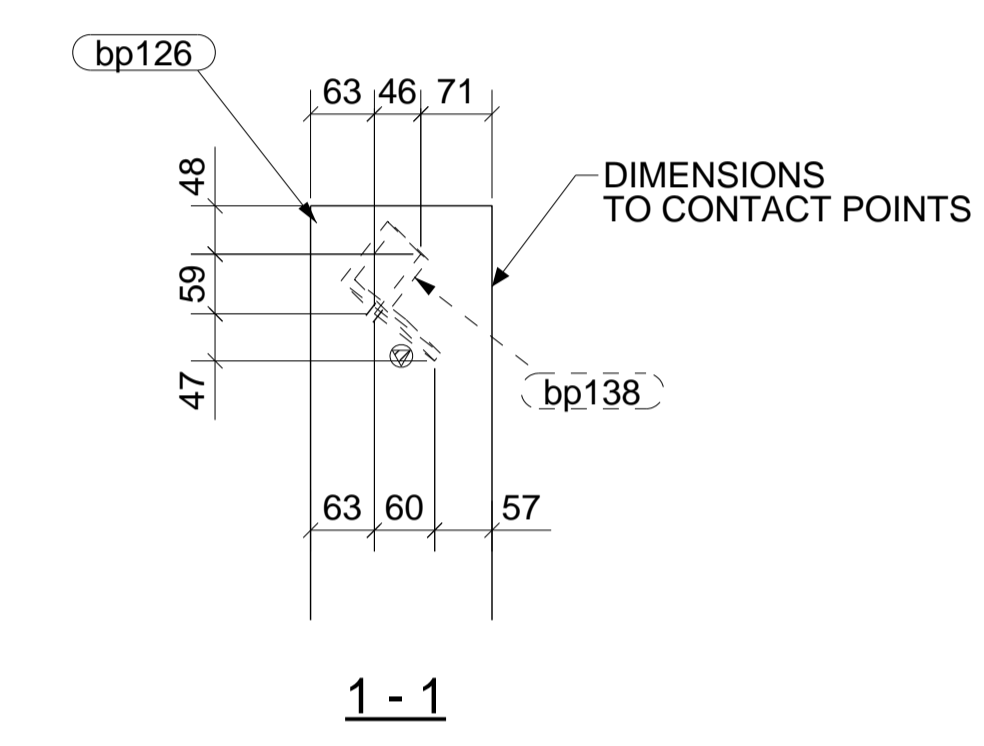
SECTION G



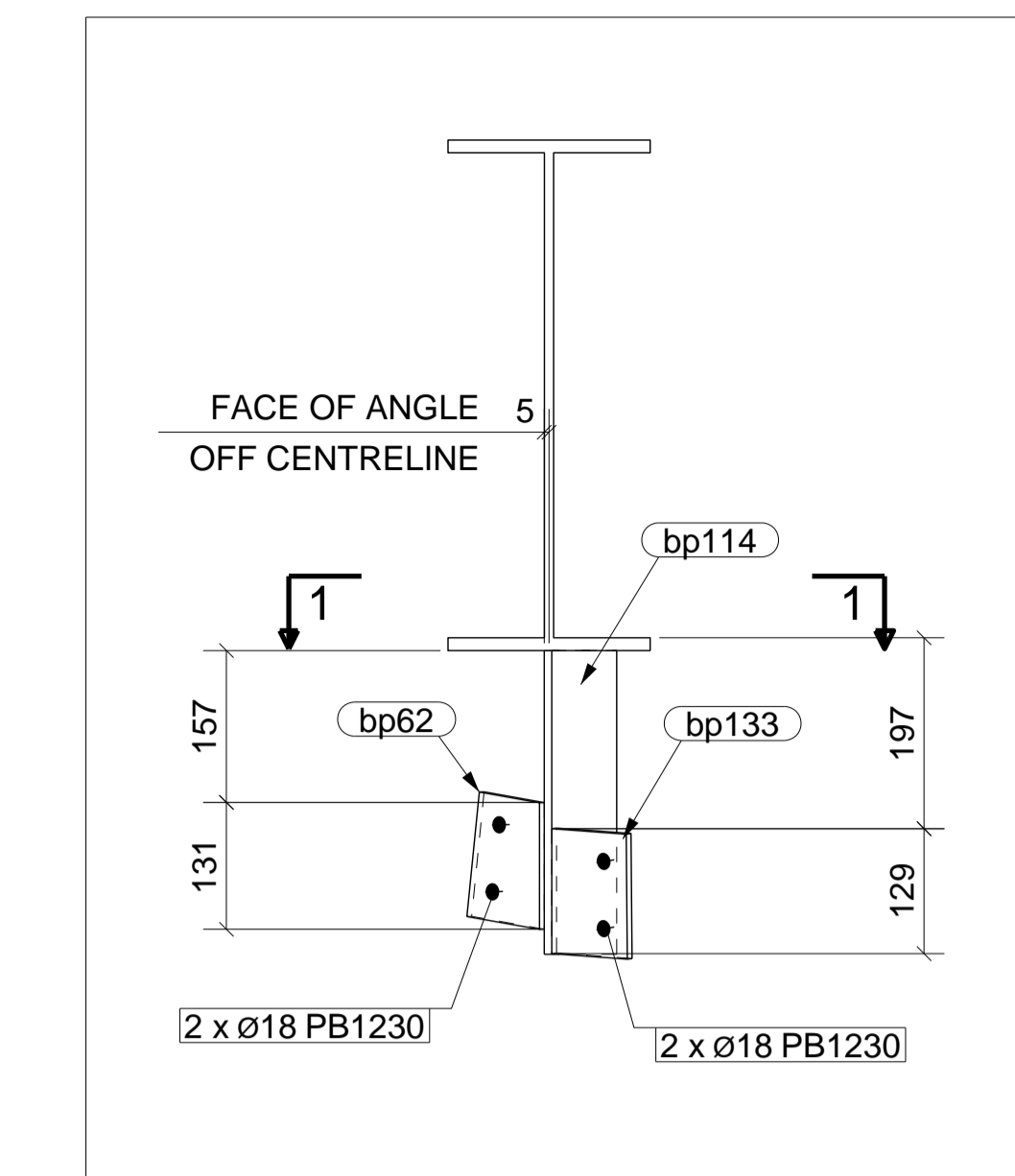
SECTION J



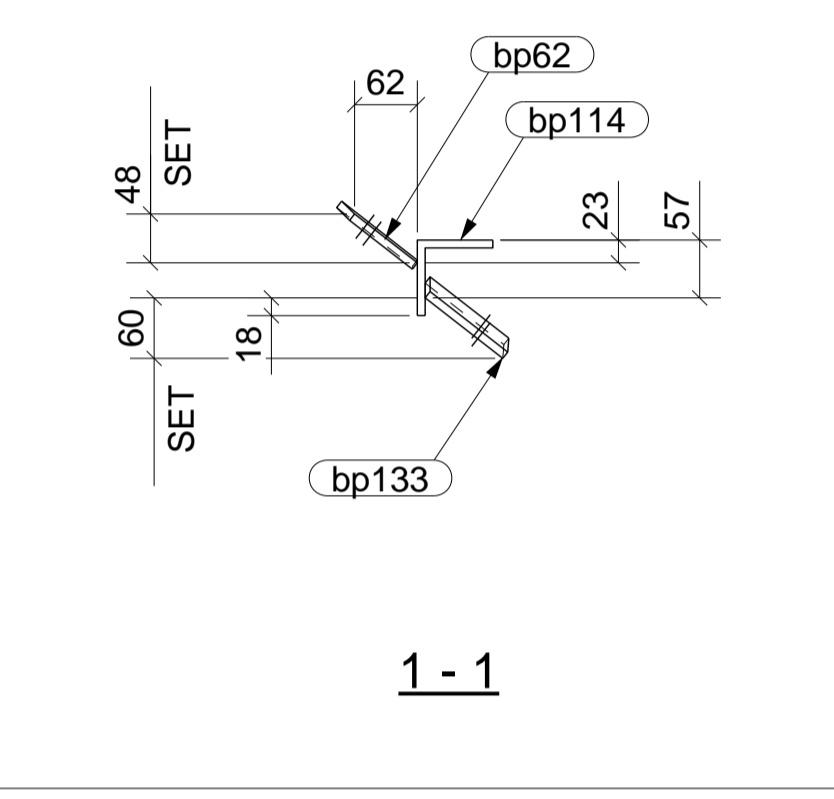
SECTION A



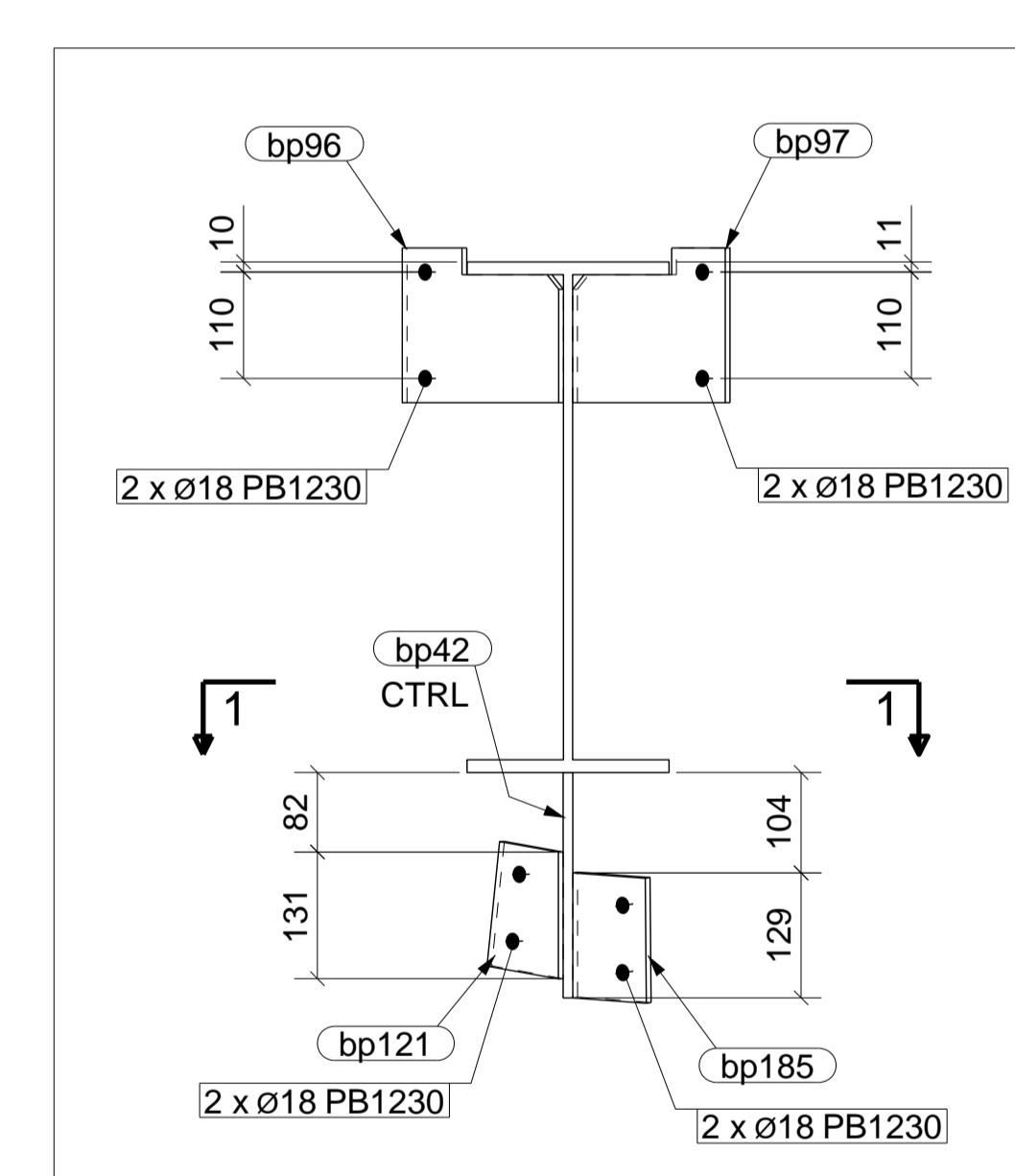
1-1



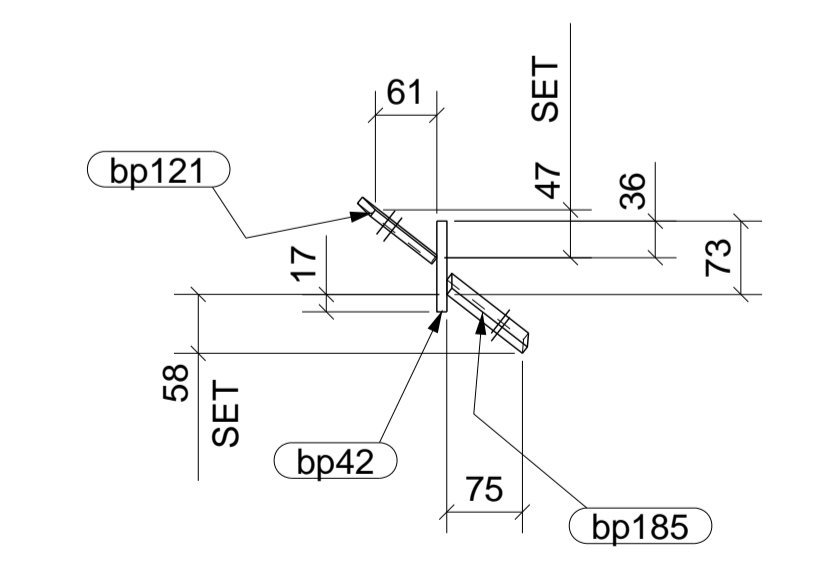
SECTION B



1-1



SECTION D



1-1

NOTE:
READ IN CONJUNCTION WITH
DRG NO 2CB2-2 FOR BEAM DETAIL

GENERAL NOTES

1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THIS: N.S. F.S.
7. ALL HOLES Ø22 U.N.O.

PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB2-1 -2 -3

No	REV	DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11

Xtech Drafting Pty. L td.

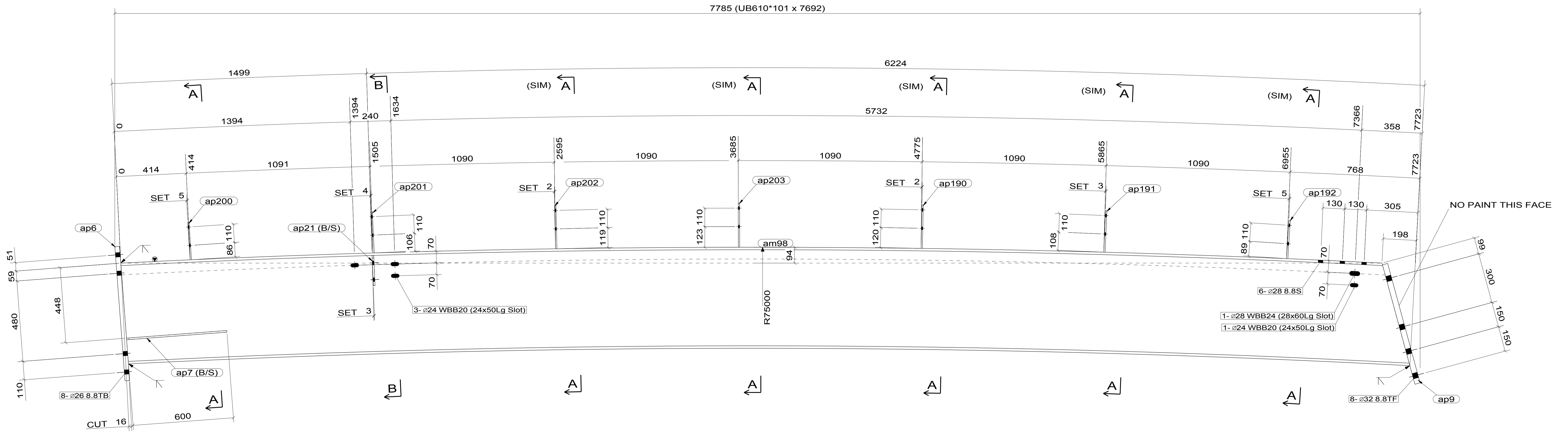
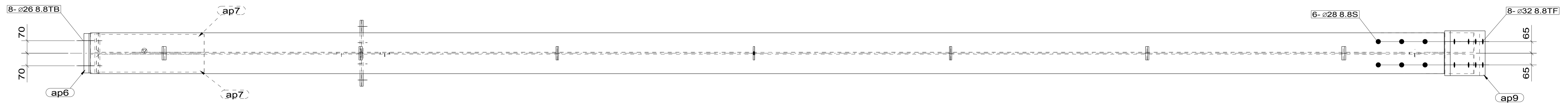
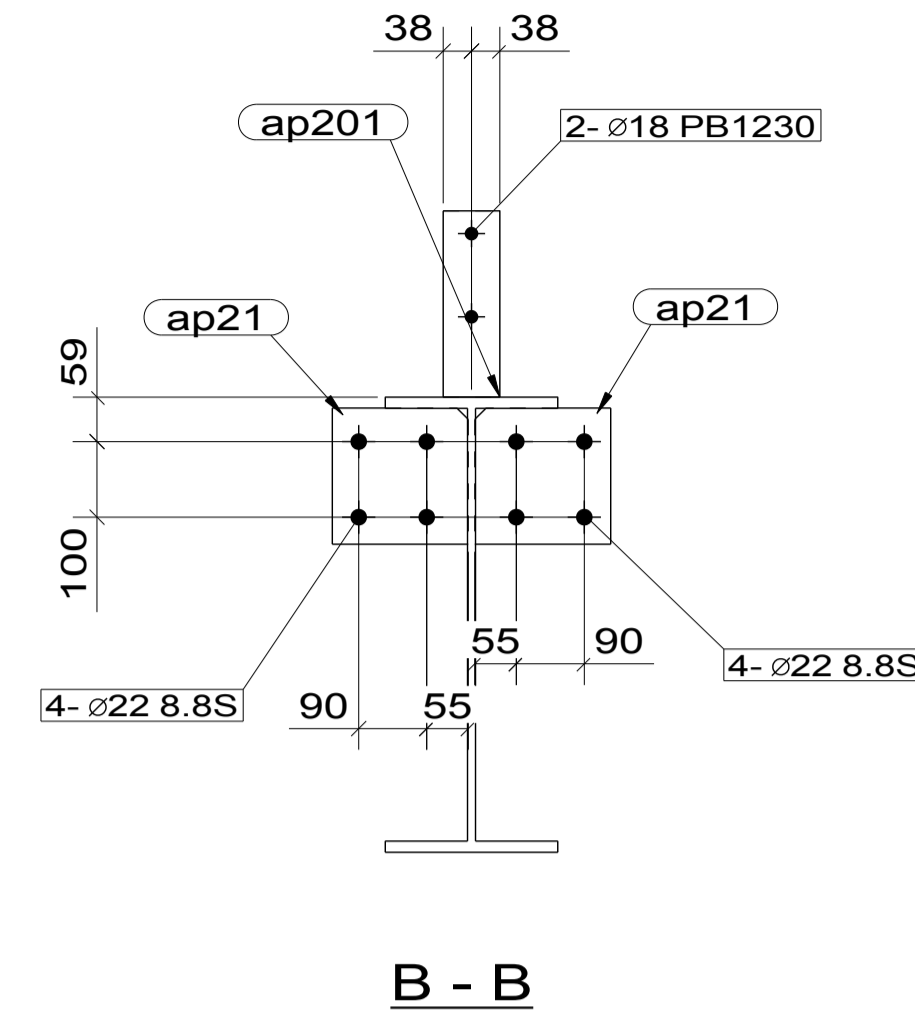
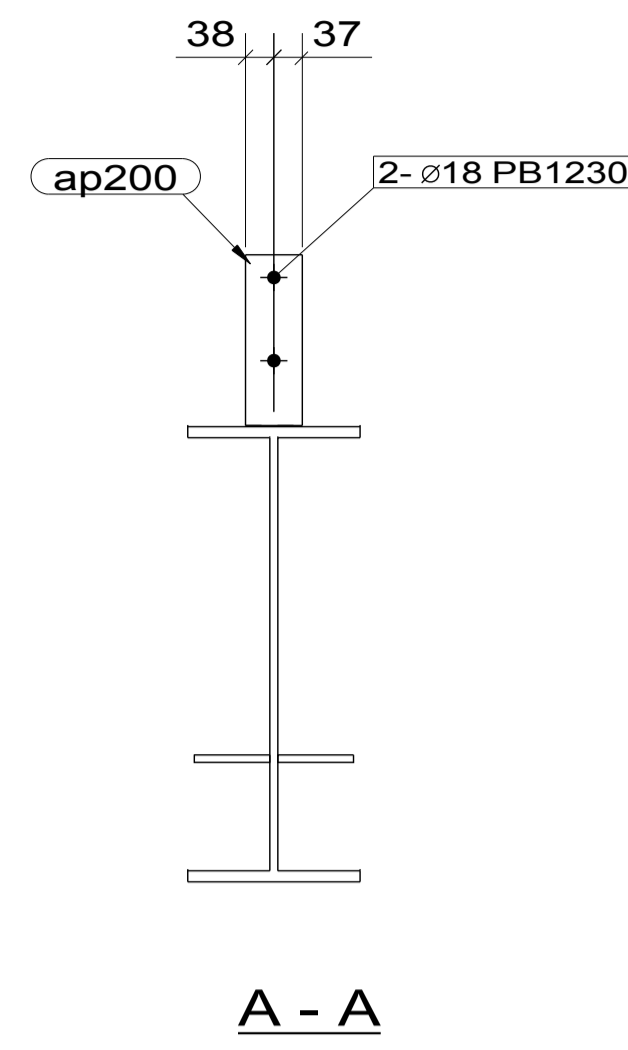
A.B.N. 69 079 793 122
14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
JOHN HOLLAND PTY. LTD.
415 Johnson St. Abbotsford. 3067

DESIGN ENGINEER:

SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM

DRAWN:	CHECKED:	DRAWING No.	REV.
AM	XTD	SMG-2CB2-3	A
DATE:	SCALE:		
02.12.11	1:7.5		

MATERIAL LIST FOR ONE ASSEMBLY MK						1R29	1	Ass. Req'd.
ITEM	No.Off	SECTION	LENGTH	GRADE	WEIGHT(kg)	AREA(m ²)		
am98	1	UB610*101	7692	300PLUS	785.0	15.9		
ap6	1	PLT28*220	802	250	38.8	0.4		
ap7	2	FLT10*100	600	250	4.7	0.1		
ap9	1	PLT32*250	737	250	46.3	0.4		
ap21	2	FLT10*180	180	250	2.5	0.1		
ap190	1	FLT8*75	260	250	1.2	0.0		
ap191	1	FLT8*75	248	250	1.2	0.0		
ap192	1	FLT8*75	229	250	1.1	0.0		
ap200	1	FLT8*75	226	250	1.1	0.0		
ap201	1	FLT8*75	246	250	1.2	0.0		
ap202	1	FLT8*75	259	250	1.2	0.0		
ap203	1	FLT8*75	263	250	1.2	0.0		
TOTAL					892.7	17.5		



1 RAFTER (S) REQUIRED MK 1R29

GENERAL NOTES
 1. WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
 2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
 5. THIRD ANGLE PROJECTION UNLESS NOTED.
 6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS \blacktriangledown N S \blacktriangledown F S

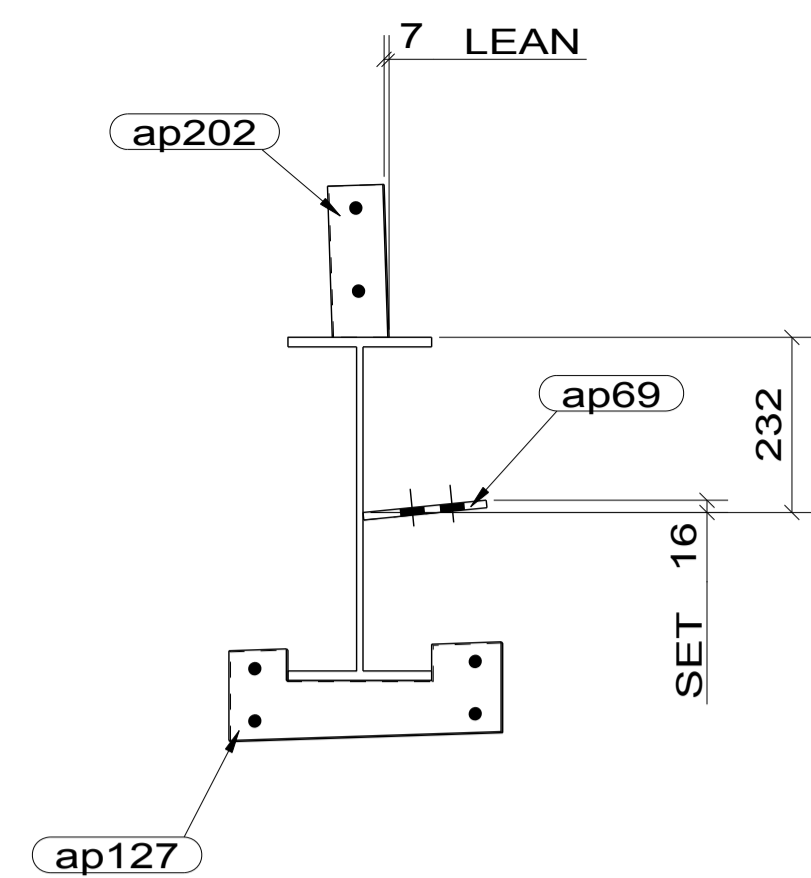
PAINT : G.O.Z.P.
 PRECAMBER :

A	16.12.09	ISSUED FOR APPROVAL
0	28.12.09	ISSUED FOR FABRICATION
No.	DATE	DETAILS
REVISIONS		

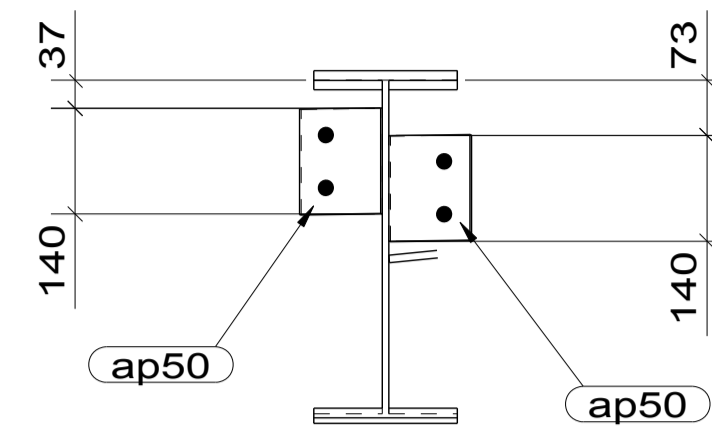
Xtech Drafting Pty. Ltd.
 A.B.N. 30 105 598 885
 14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
 PH.+61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
GREENSBOROUGH STEEL FAB.
 15 DENNIS ST. CAMPBELLFIELD 3061 PH.9305 1677 FAX.9305 2117

J & J KING BUILDERS P/L
MOUNT EVELYN CHRISTIAN SCHOOL

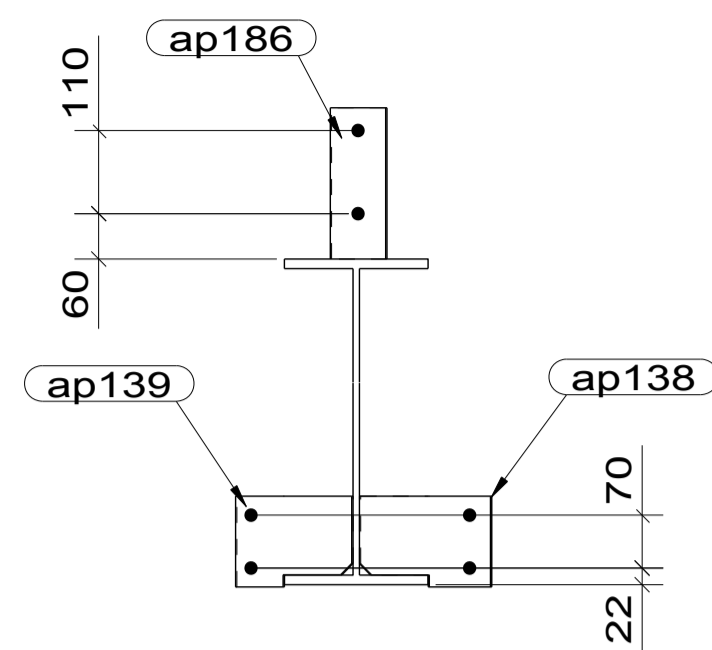
RAFTER			
DRAWN: AM	CHECKED: AM	DRAWING No.	REV.
DATE: 09.12.2009	SCALE: 1/10	221- 1R29	0



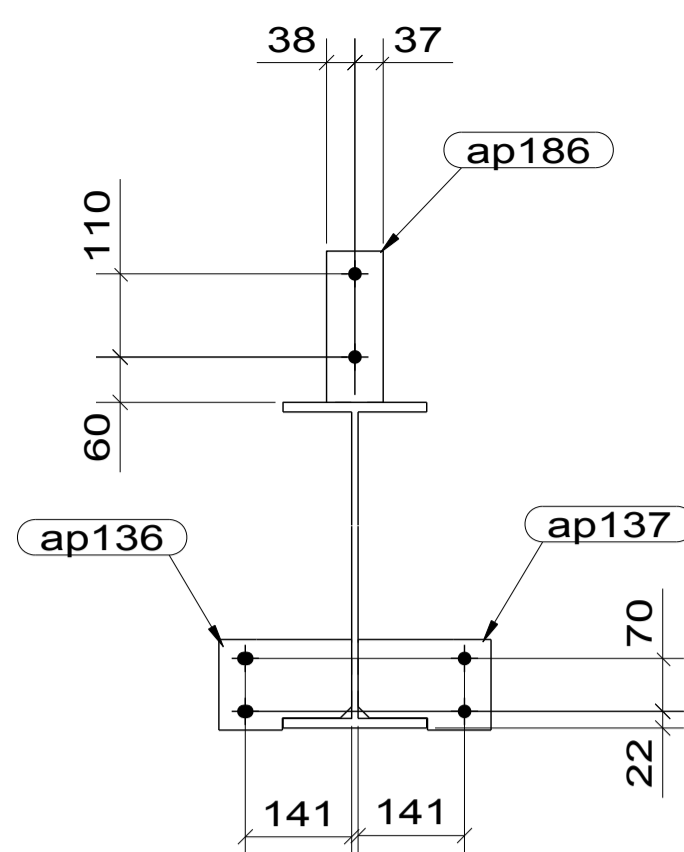
B - B



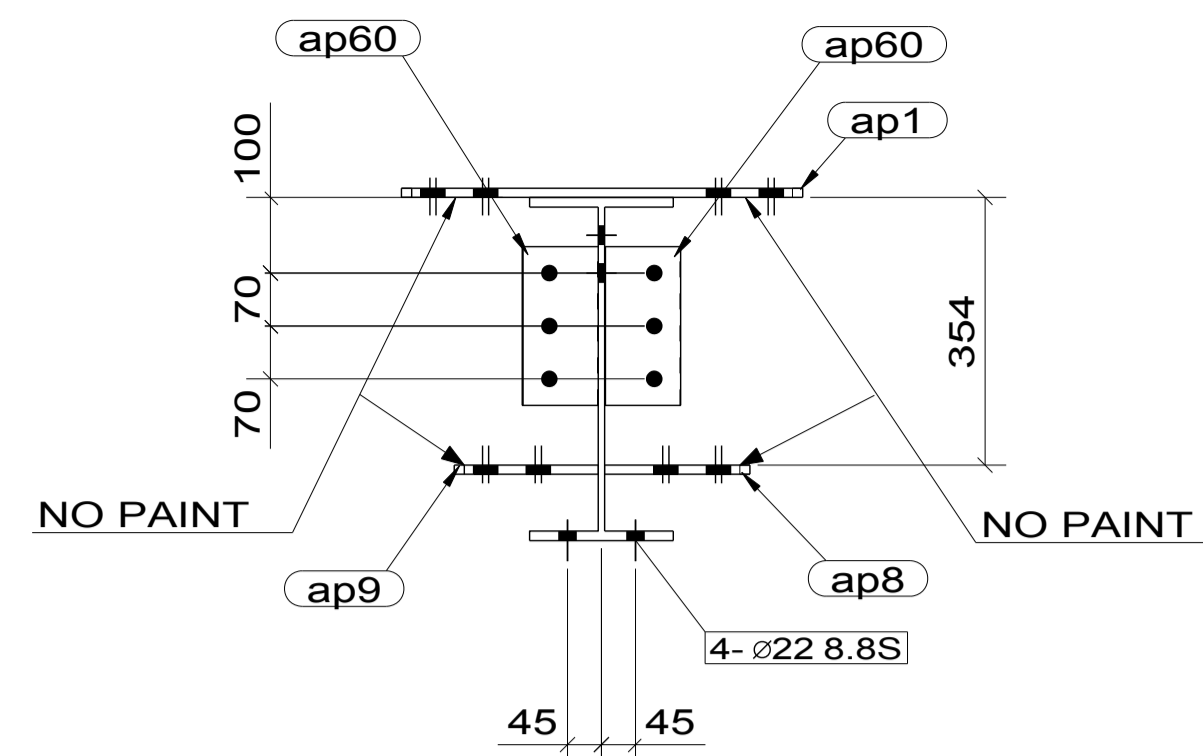
C - C



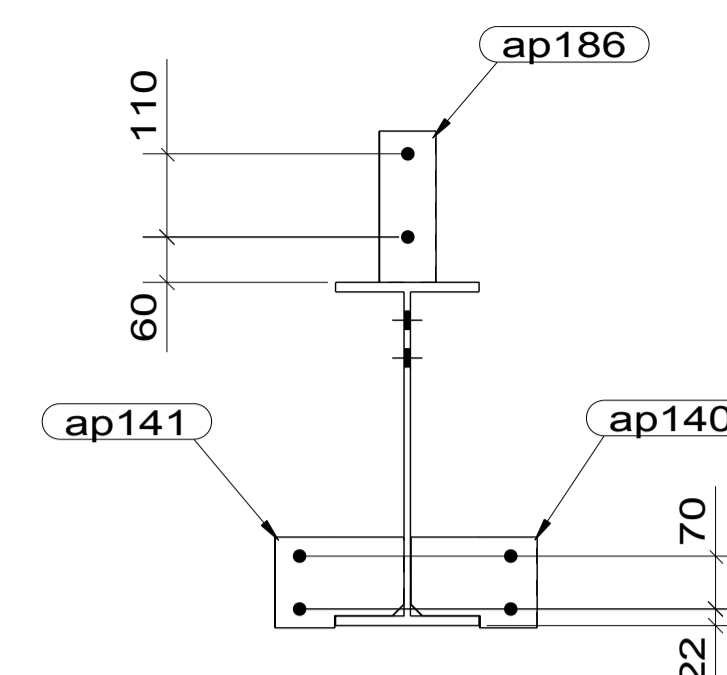
D - D



E - E

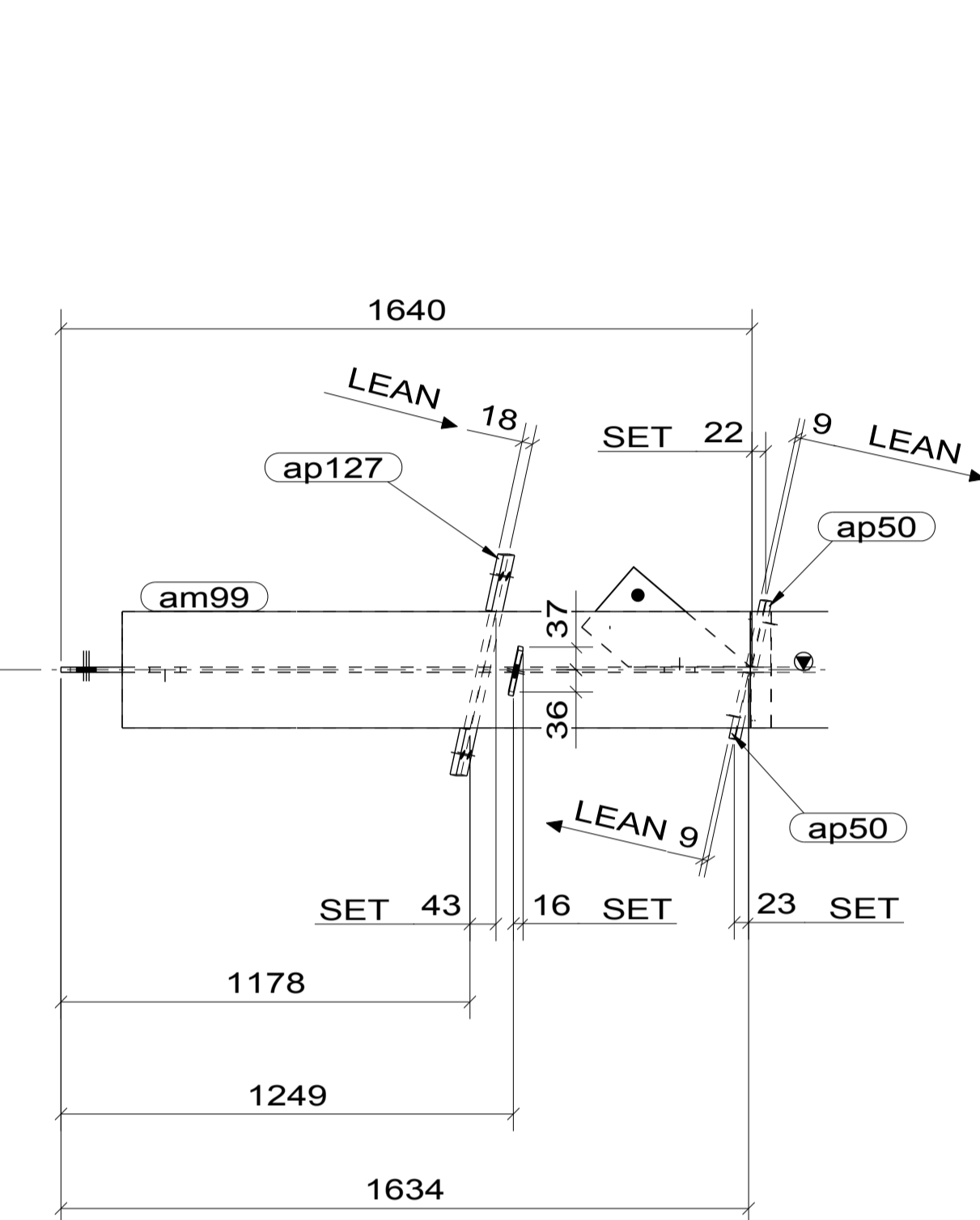


F - F

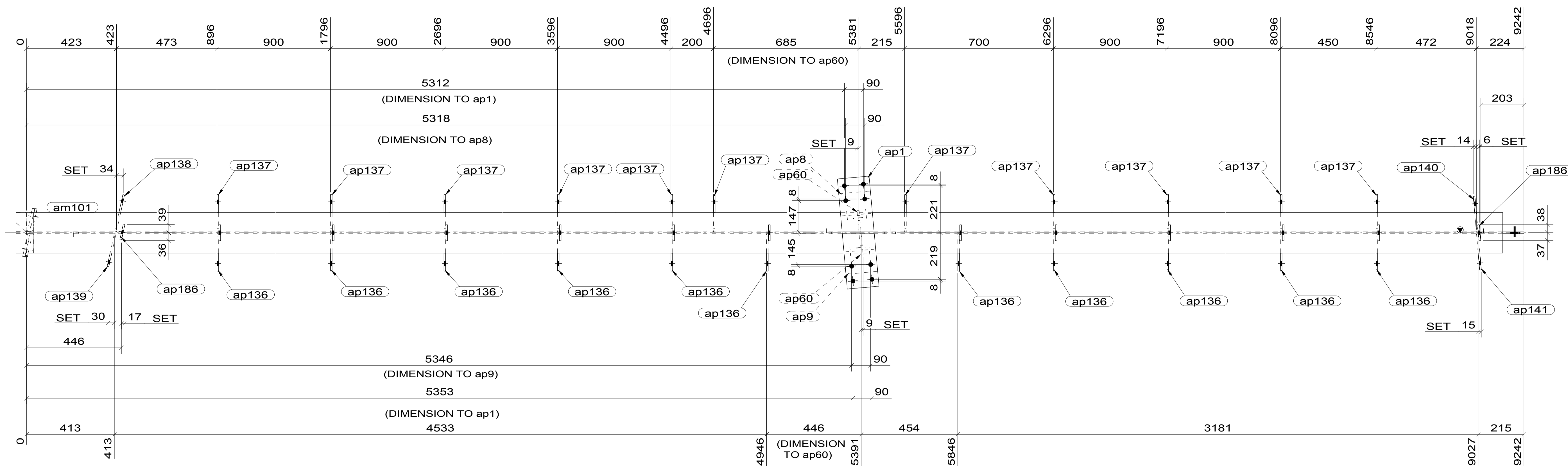


G - G

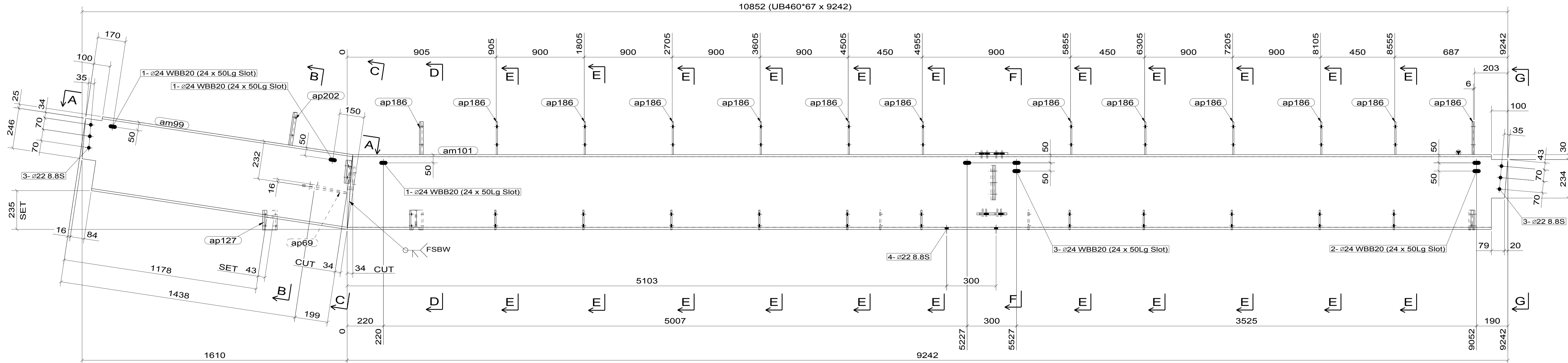
MATERIAL LIST FOR ONE ASSEMBLY MK				1R26	1	Ass. Req'd.
ITEM	No.Off	SECTION	LENGTH	GRADE	WEIGHT(kg)	AREA(m ²)
am99	1	UB460*67	1671	300PLUS	112.6	2.7
am101	1	UB460*67	9242	300PLUS	622.5	15.1
ap1	1	FLT12*150	519	250	7.3	0.2
ap8	1	FLT12*150	193	250	2.6	0.1
ap9	1	FLT12*150	191	250	2.6	0.1
ap50	2	FLT10*110	140	250	1.2	0.0
ap60	2	FLT10*100	210	250	1.6	0.0
ap69	1	FLT10*130	252	250	1.8	0.1
ap127	1	PLT10*120	369	250	2.8	0.1
ap136	11	PLT8*120	176	250	1.2	0.0
ap137	11	PLT8*120	176	250	1.2	0.0
ap138	1	PLT8*120	177	250	1.2	0.0
ap139	1	PLT8*120	157	250	1.1	0.0
ap140	1	PLT8*120	167	250	1.2	0.0
ap141	1	PLT8*120	171	250	1.2	0.0
ap186	13	FLT8*75	200	250	0.9	0.0
ap202	1	FLT8*75	202	250	0.9	0.0
TOTAL					802.7	20.0



A - A



10852 (UB460*67 x 9242)



1 RAFTER (S) REQUIRED MK 1R26

- GENERAL NOTES
- WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
 - ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 - ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 - NO PAINT IN WAY OF TF BOLT CONNECTIONS.
 - THIRD ANGLE PROJECTION UNLESS NOTED.
 - ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS ∇ N S F S

PAINT : G.O.Z.P.
PRECAMBER :

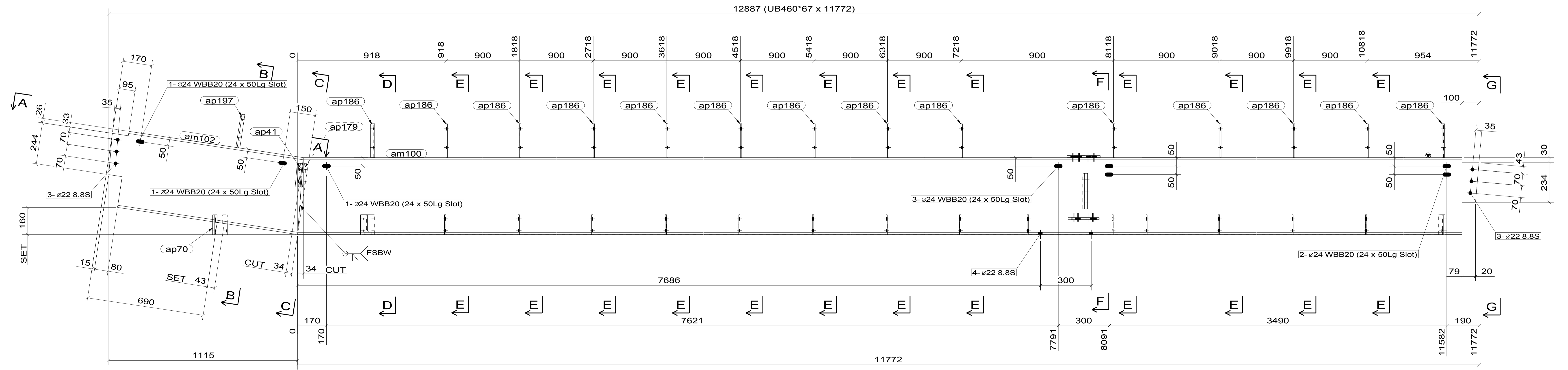
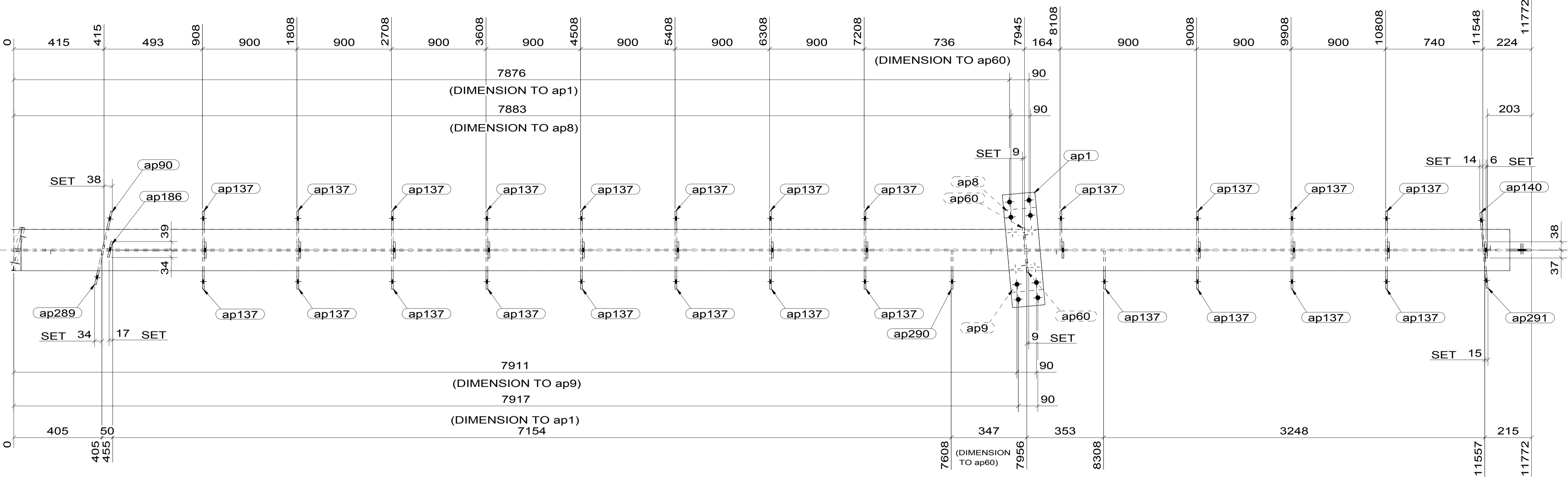
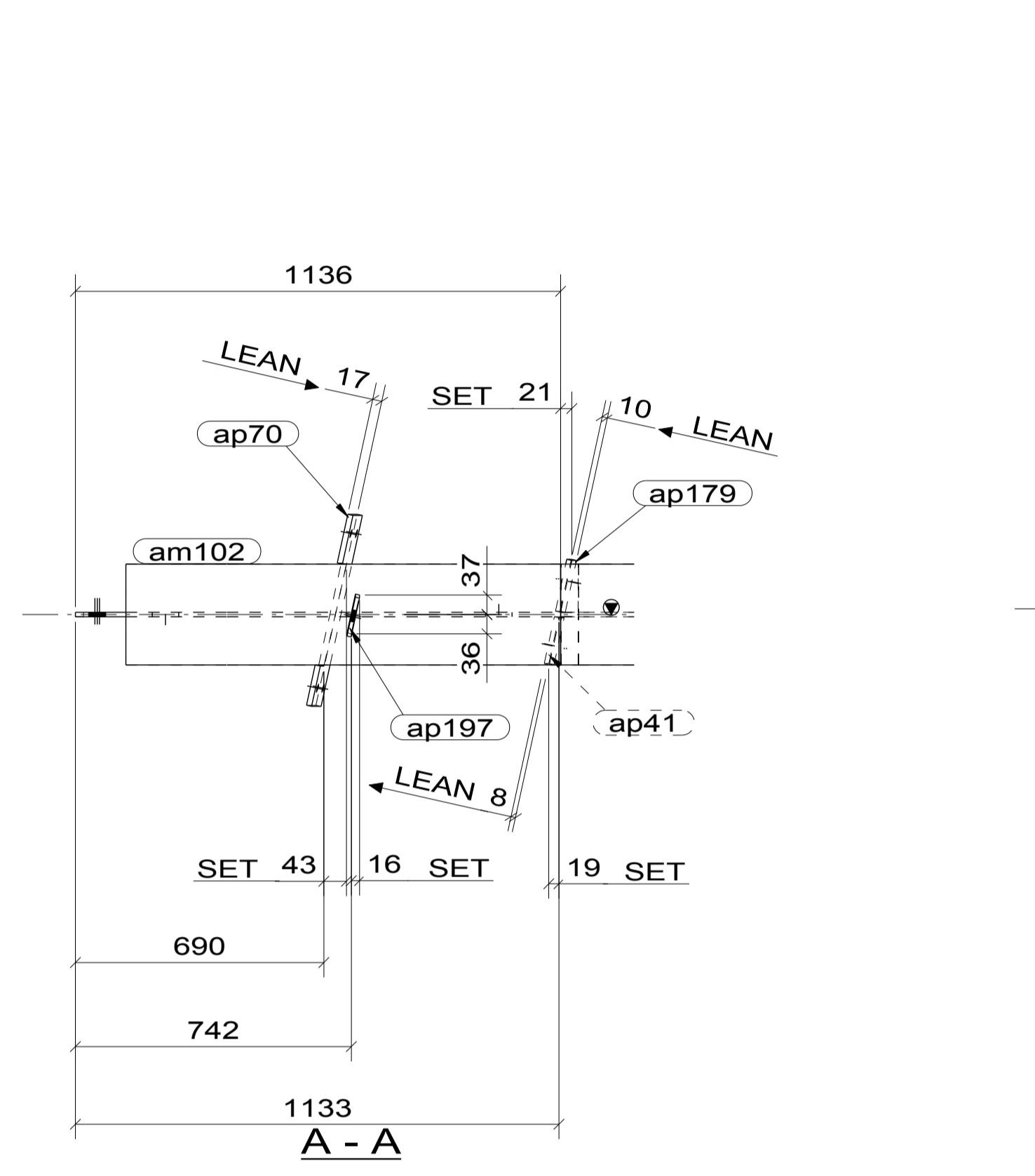
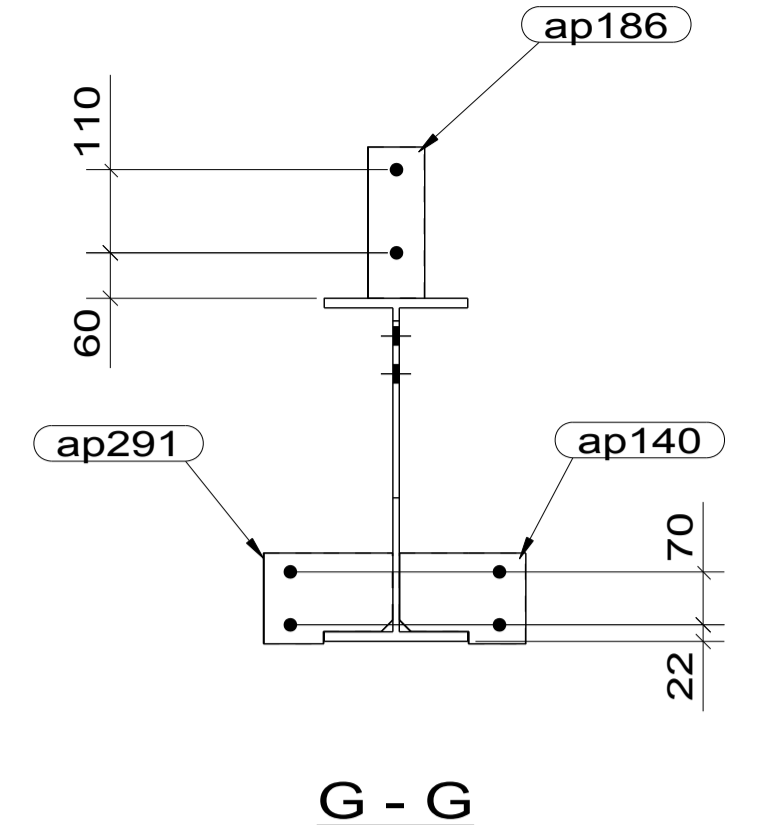
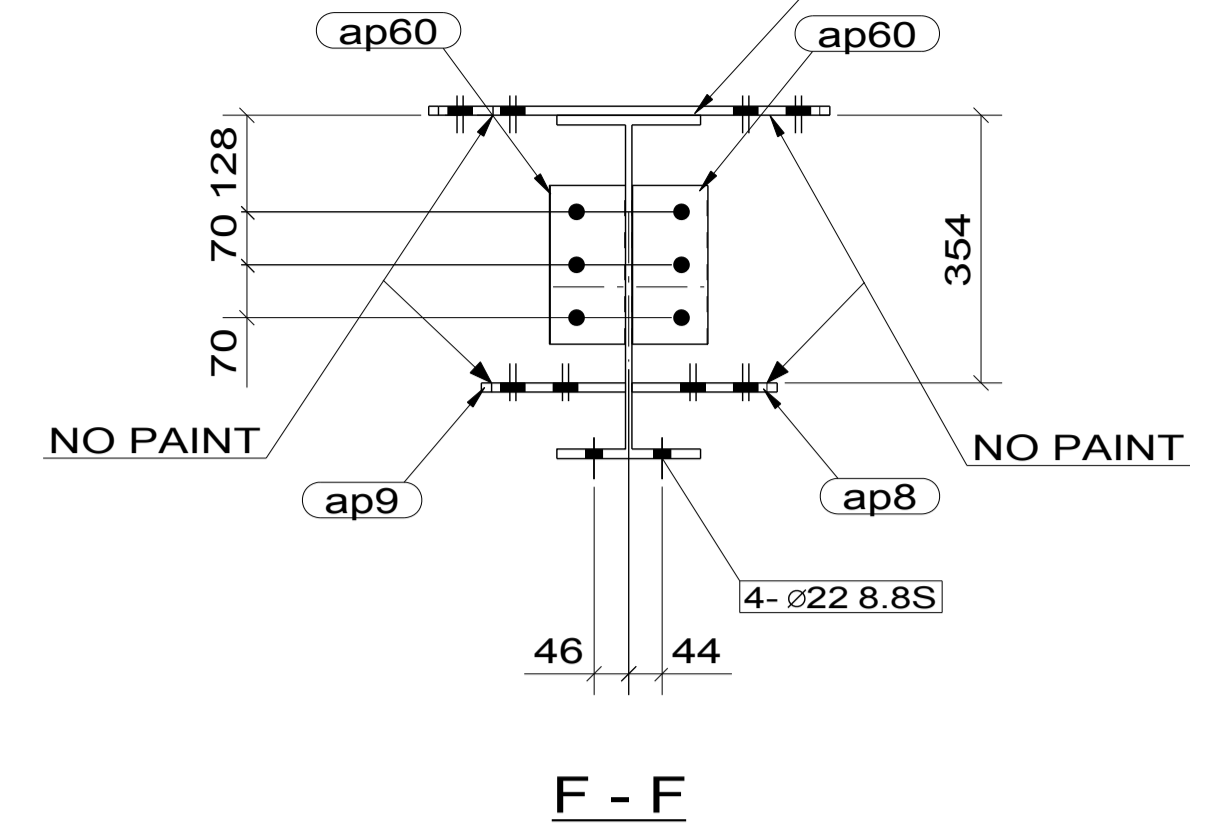
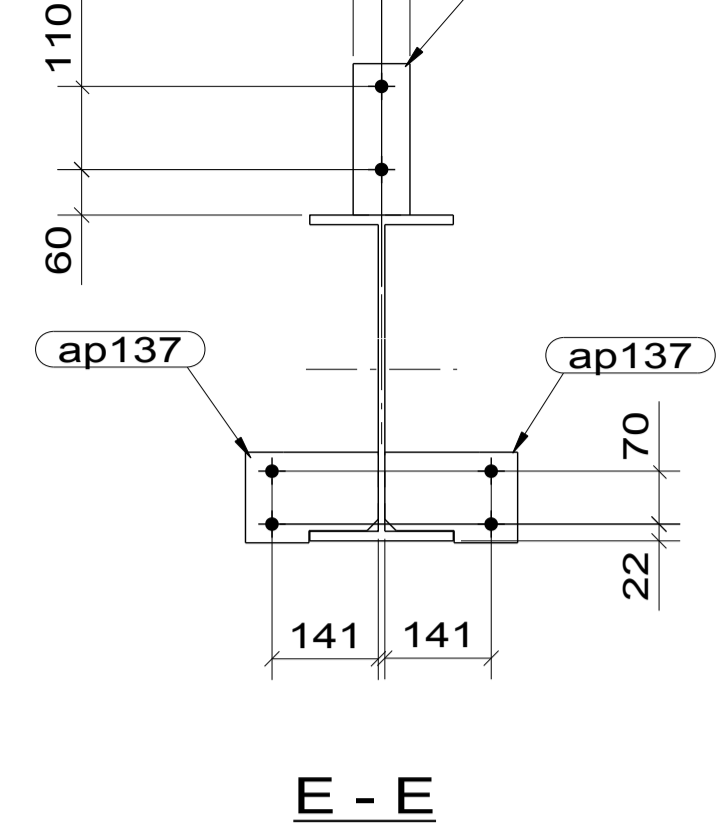
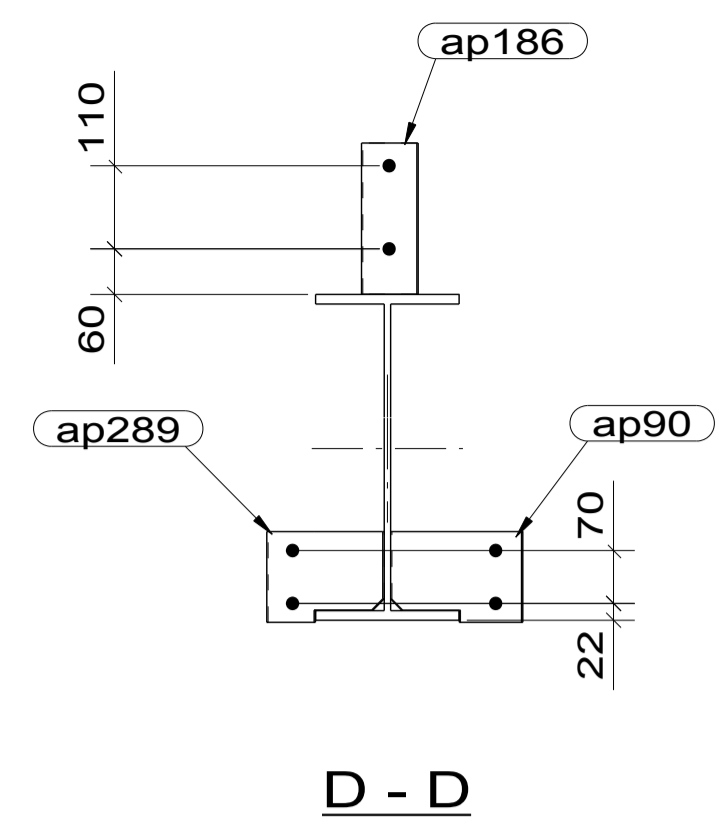
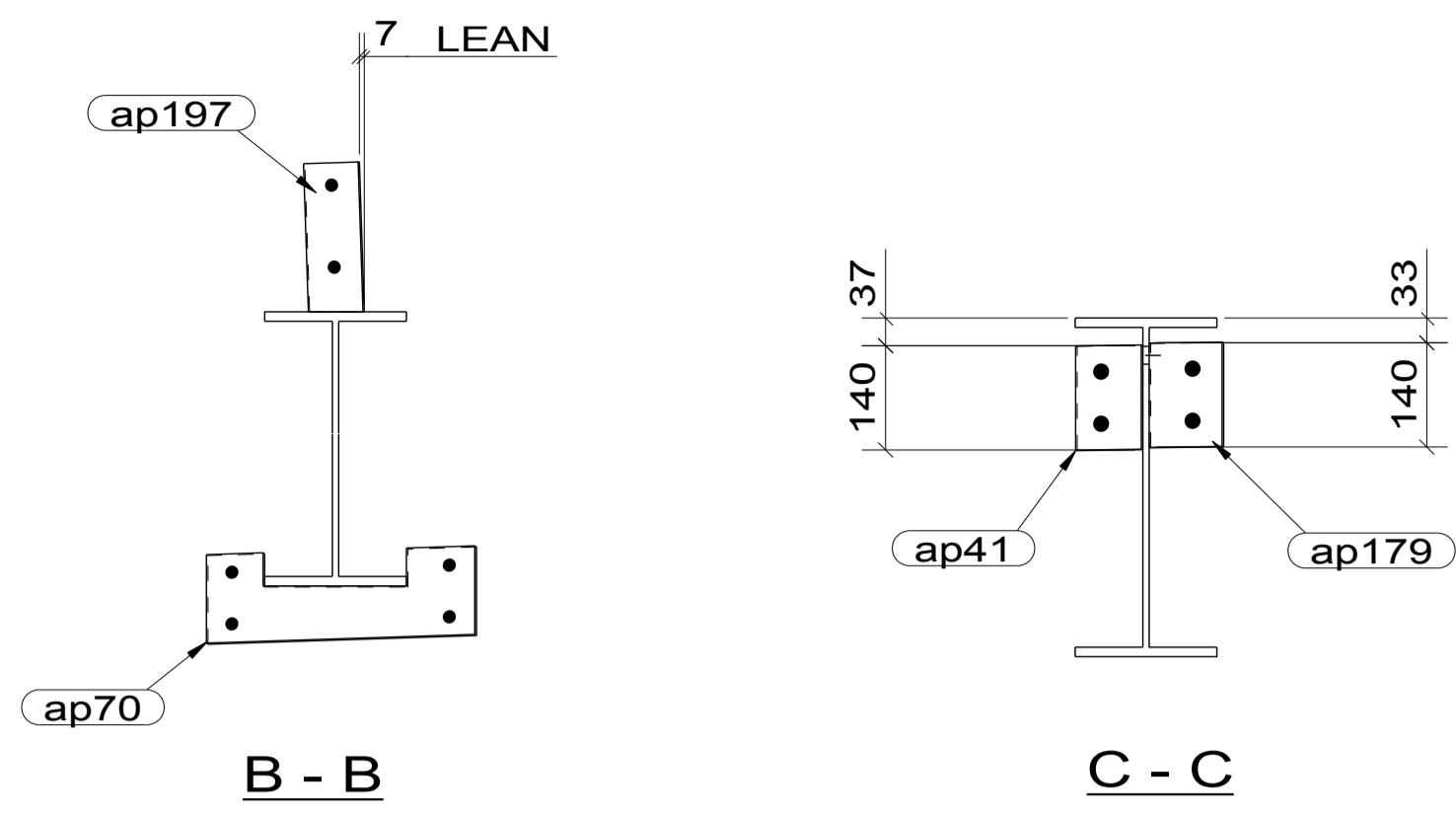
No.	DATE	DETAILS

Xtech Drafting Pty. Ltd.
A.B.N. 30 105 598 885
14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
PH.+61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
STILCON HOLDINGS PTY. LTD.
37 Link Crt. Brooklyn Vic. 3025 Ph: 93141611 Fax: 93151559

TOORONG VILLAGE - ZONE 3
RETAIL, PODIUM & APARTMENTS

ERECTOR PLAN REFERENCE:		DRAWING No.		REV.
DRAWN: AWM	CHECKED: AWM	1554- 1R26		
DATE: 28.07.2009	SCALE: 1/10			

MATERIAL LIST FOR ONE ASSEMBLY MK					1R27	1	Ass. Req'd.
ITEM	No.OFF	SECTION	LENGTH	GRADE	WEIGHT(kg)	AREA(m ²)	
am100	1	UB460*67	11772	300PLUS	792.9	19.2	
am102	1	UB460*67	1170	300PLUS	78.8	1.9	
ap1	1	FLT12*150	519	250	7.3	0.2	
ap8	1	FLT12*150	193	250	2.6	0.1	
ap9	1	FLT12*150	191	250	2.6	0.1	
ap41	1	FLT10*90	140	250	1.0	0.0	
ap60	2	FLT10*100	210	250	1.6	0.0	
ap70	1	PLT10*120	369	250	2.7	0.1	
ap90	1	PLT8*120	177	250	1.2	0.0	
ap137	24	PLT8*120	176	250	1.2	0.0	
ap140	1	PLT8*120	167	250	1.2	0.0	
ap179	1	FLT10*100	140	250	1.1	0.0	
ap186	14	FLT8*75	200	250	0.9	0.0	
ap197	1	FLT8*75	201	250	0.9	0.0	
ap289	1	PLT8*120	157	250	1.1	0.0	
ap290	1	PLT8*120	176	250	1.2	0.0	
ap291	1	PLT8*120	171	250	1.2	0.0	
TOTAL					941.7	23.4	



1 RAFTER (S) REQUIRED MK 1R27

GENERAL NOTES
 1. WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
 2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
 5. THIRD ANGLE PROJECTION UNLESS NOTED.
 6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS \blacktriangledown N S \oplus F S

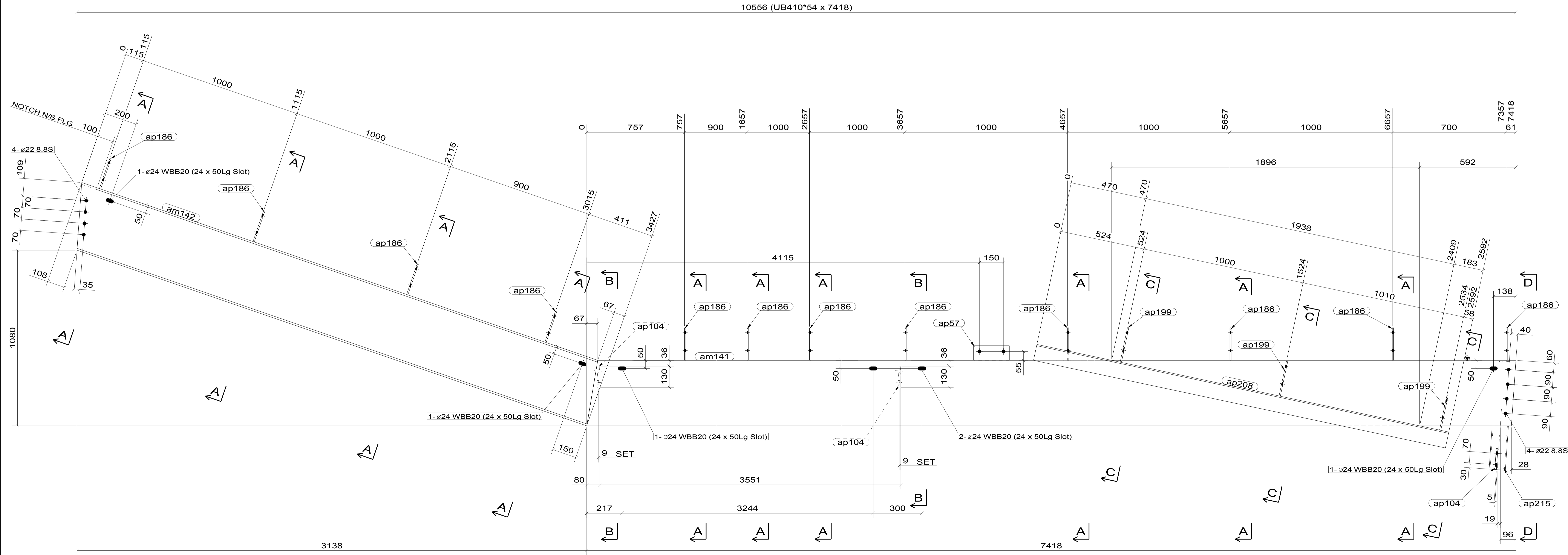
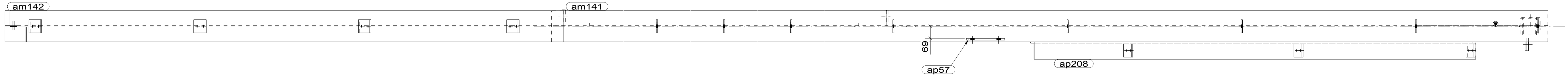
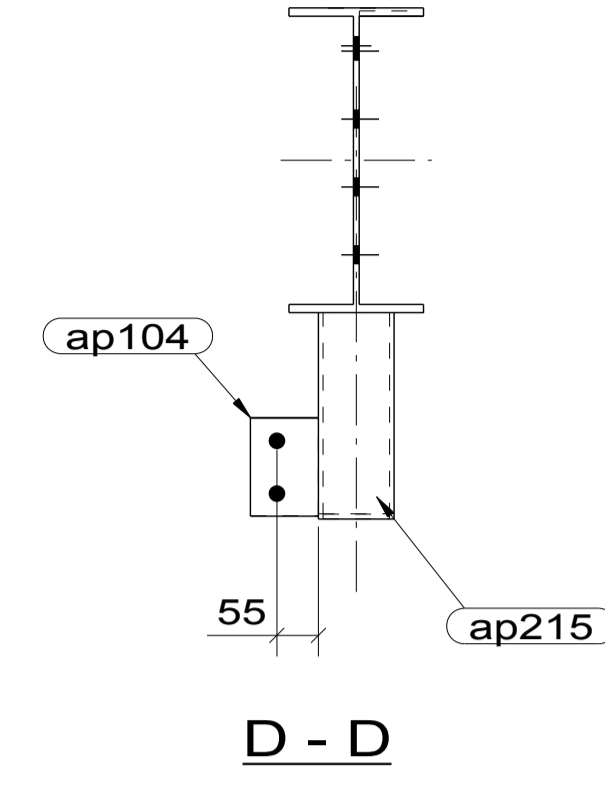
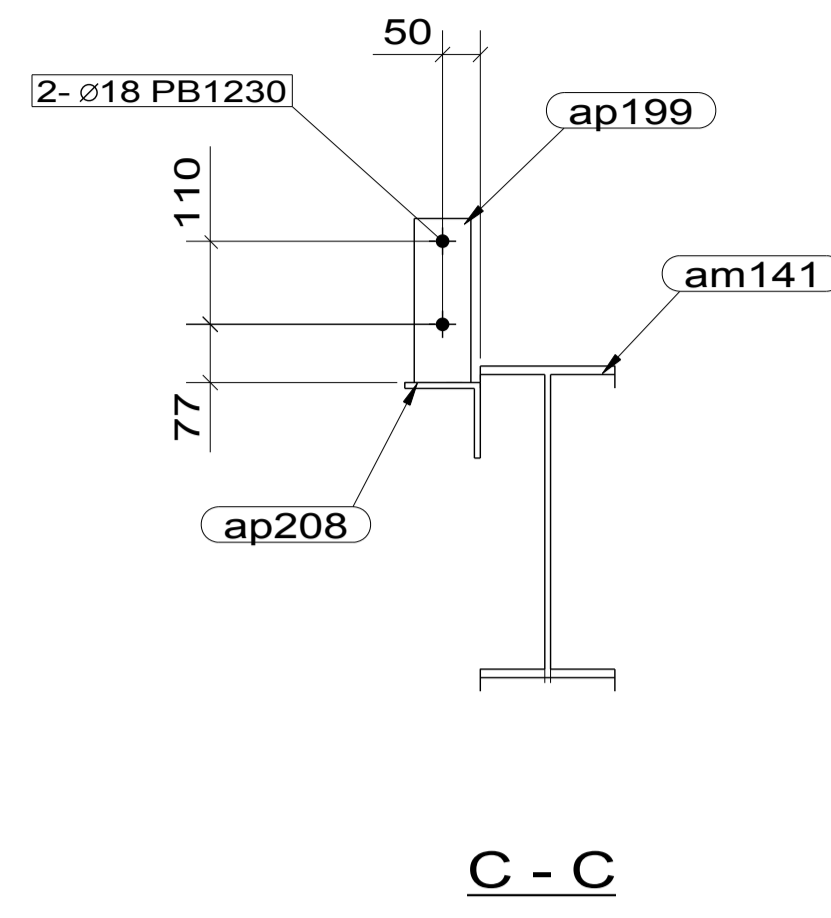
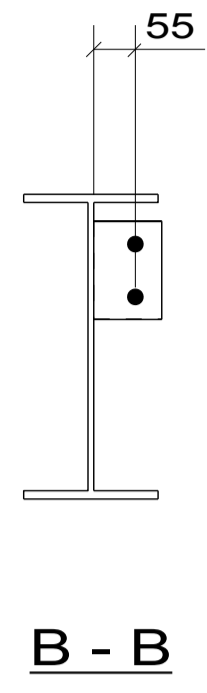
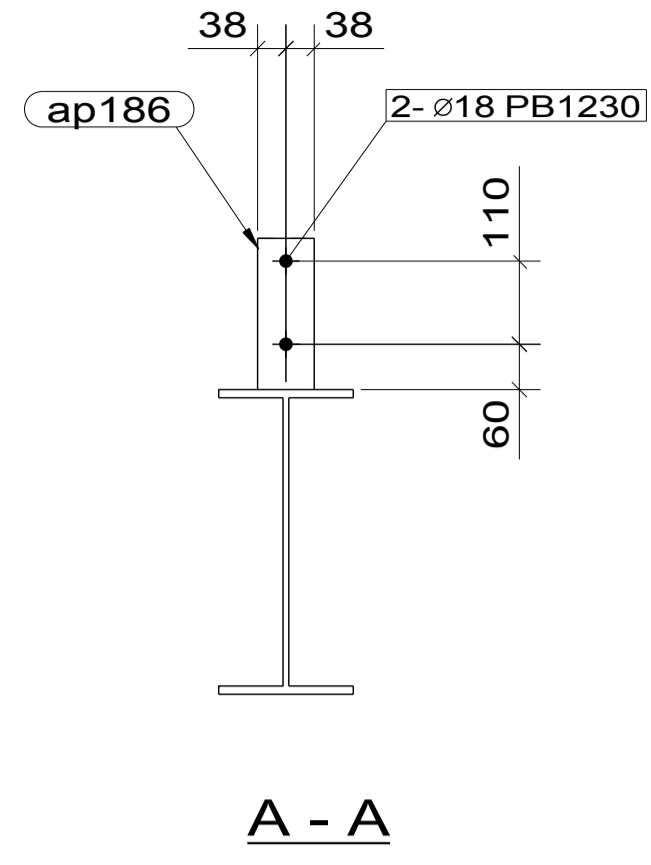
PAINT : G.O.Z.P.
 PRECAMBER :

No.	DATE	DETAILS

Xtech Drafting Pty. Ltd.
 A.B.N. 30 105 598 885
 14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
 PH.+61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
STILCON HOLDINGS PTY. LTD.
 37 Link Crt. Brooklyn Vic. 3025 Ph: 93141611 Fax: 93151559

TOORONG VILLAGE - ZONE 3 RETAIL, PODIUM & APARTMENTS			
RAFTER			
DRAWN: AWM	CHECKED: AWM	DRAWING No.	REV.
DATE: 31.07.2009	SCALE: 1/10	1554- 1R27	

MATERIAL LIST FOR ONE ASSEMBLY MK						1R56	1	Ass. Req'd.
ITEM	No.Off	SECTION	LENGTH	GRADE	WEIGHT(kg)	AREA(m ²)		
am141	1	UB410*54	7418	300PLUS	401.2	11.0		
am142	1	UB410*54	3427	300PLUS	185.3	5.1		
ap57	1	FLT10*90	220	250	1.6	0.0		
ap104	3	FLT10*90	130	250	0.9	0.0		
ap186	12	FLT8*75	200	250	0.9	0.0		
ap199	3	FLT8*75	217	250	1.0	0.0		
ap208	1	EA100*100*8	2592	300PLUS	30.5	1.0		
ap215	1	SHS100*100*6.0	274	C350	4.6	0.1		
					TOTAL	640.3	17.8	



1 RAFTER (S) REQUIRED MK 1R56

GENERAL NOTES
 1. WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
 2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
 5. THIRD ANGLE PROJECTION UNLESS NOTED.
 6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS \blacktriangledown N S \blacktriangledown F S

PAINT : G.O.Z.P.
 PRECAMBER :

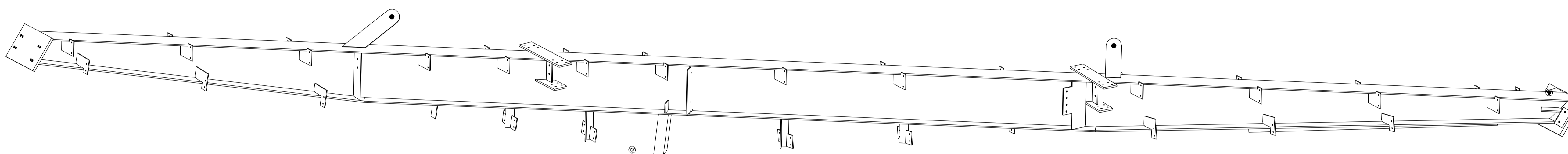
No.	DATE	DETAILS

Xtech Drafting Pty. Ltd.
 A.B.N. 30 105 598 885
 14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
 PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
STILCON HOLDINGS PTY. LTD.
 37 Link Crt. Brooklyn Vic. 3025 Ph: 93141611 Fax: 93151559

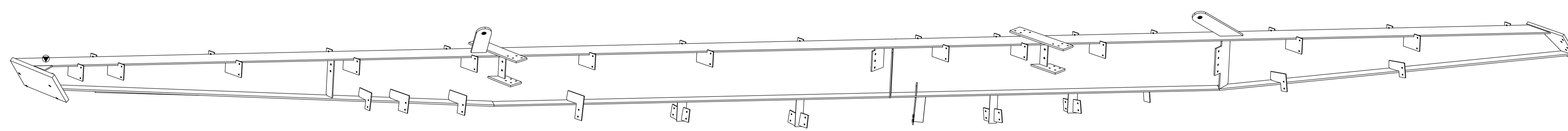
TOORONG VILLAGE - ZONE 3
 RETAIL, PODIUM & APARTMENTS

ERECTOR PLAN REFERENCE:		DRAWING No.	
DRAWN: AWM	CHECKED: AWM	1554- 1R56	
DATE: 03.08.2009	SCALE: 1/10	REV.	

ITEM	No.	SECTION	GRADE	LENGTH	AREA(m ²)	WEIGHT(kg)
bm7	1	UB530*82	300PLUS	15261	28.23	1257.9
bp4	1	PLT12*114	250	182	0.03	1.0
bp5	1	PLT40*400	350Z	552	0.52	69.4
bp6	1	FLT10*100	250	180	0.04	1.4
bp7	1	PLT16*209	250	3464	1.53	88.9
bp12	1	PLT12*90	250	245	0.05	1.8
bp13	1	PLT12*90	250	169	0.03	1.2
bp14	1	PLT16*209	250	4511	2.00	116.3
bp16	1	PLT12*173	250	230	0.09	3.7
bp18	1	FLT16*150	250	312	0.09	4.9
bp20	1	FLT16*150	250	322	0.09	4.9
bp21	1	FLT16*150	250	309	0.09	4.7
bp26	1	FLT16*150	250	648	0.22	12.2
bp28	1	FLT16*150	250	679	0.23	12.8
bp34	1	PLT12*260	250	500	0.23	10.2
bp35	1	PLT12*233	250	495	0.21	8.9
bp37	1	FLT16*150	250	281	0.09	4.6
bp39	1	FLT8*250	250	211	0.07	2.1
bp41	1	FLT10*90	250	241	0.05	1.7
bp43	1	FLT10*90	250	236	0.05	1.7
bp47	1	FLT8*130	250	89	0.03	0.7
bp48	1	FLT8*130	250	104	0.03	0.8
bp49	1	EA75*75*8	300PLUS	320	0.09	2.8
bp50	1	PLT8*107	250	135	0.03	0.8
bp51	1	FLT8*130	250	86	0.03	0.7
bp57	1	FLT8*75	250	158	0.03	0.7
bp59	1	FLT8*130	250	102	0.03	0.8
bp60	1	FLT8*130	250	109	0.03	0.8
bp61	1	EA75*75*8	300PLUS	330	0.10	2.9
bp70	2	FLT10*100	250	100	0.02	1.6
bp74	1	PLT8*180	250	244	0.07	2.0
bp75	1	FLT10*110	250	495	0.12	4.2
bp77	1	FLT8*200	250	221	0.07	2.0
bp80	1	FLT8*200	250	201	0.06	1.7
bp81	1	PLT8*180	250	203	0.06	1.6
bp82	1	FLT8*150	250	206	0.05	1.4
bp85	4	FLT10*90	250	237	0.05	6.7
bp86	1	FLT8*150	250	202	0.06	1.6
bp87	1	PLT10*183	250	498	0.19	6.9
bp88	1	PLT8*180	250	200	0.06	1.6
bp89	1	FLT8*150	250	203	0.05	1.4
bp90	1	PLT10*183	250	498	0.19	6.9
bp91	1	PLT8*180	250	201	0.05	1.5
bp92	1	PLT8*180	250	201	0.06	1.7
bp100	11	PLT8*160	250	205	0.06	20.1
bp101	12	PLT8*160	250	200	0.06	21.4
bp120	1	FLT8*130	250	104	0.03	0.8
bp133	1	FLT8*130	250	100	0.03	0.8
bp148	1	FLT8*200	250	160	0.06	1.8
bp150	1	FLT10*90	250	395	0.08	2.8
bp175	1	EA100*100*10	300PLUS	502	0.20	7.1
bp182	1	PLT25*370	350Z	459	0.38	33.3
bp188	1	PLT3*50	250	2432	0.26	2.9
bp192	1	PLT8*160	250	200	0.06	1.8
bp205	1	PLT8*180	250	184	0.05	1.4
bp220	1	FLT20*150	250	392	0.13	8.8
bp221	1	FLT20*150	250	635	0.19	12.5
TOTAL					37.07	1779.3



ISOMETRIC VIEW



ISOMETRIC VIEW

1 BEAM (S) REQUIRED MK 2CB7

GENERAL NOTES

1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THIS N S F S
7. ALL HOLES Ø22 U.N.O.

PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB7-1 -2 -3 -4 -5 -6

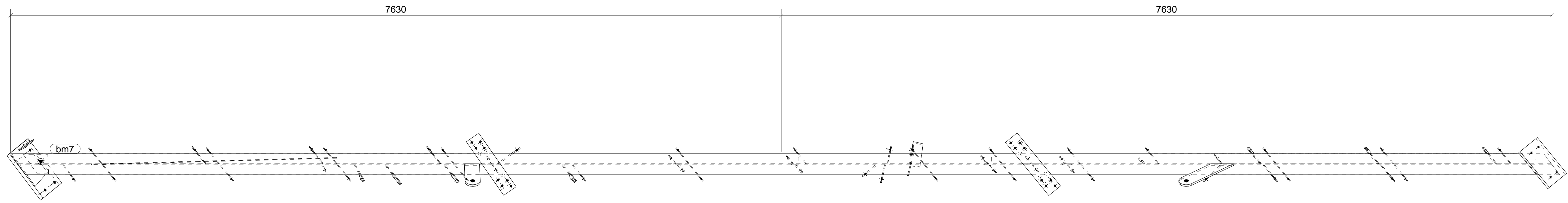
No	REV.	DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11

Xtech Drafting Pty. L td.
A.B.N. 69 079 793 122
14 / 37 - 39 ALBERT RD. MELBOURNE. VIC. AUSTRALIA. 3004
PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698

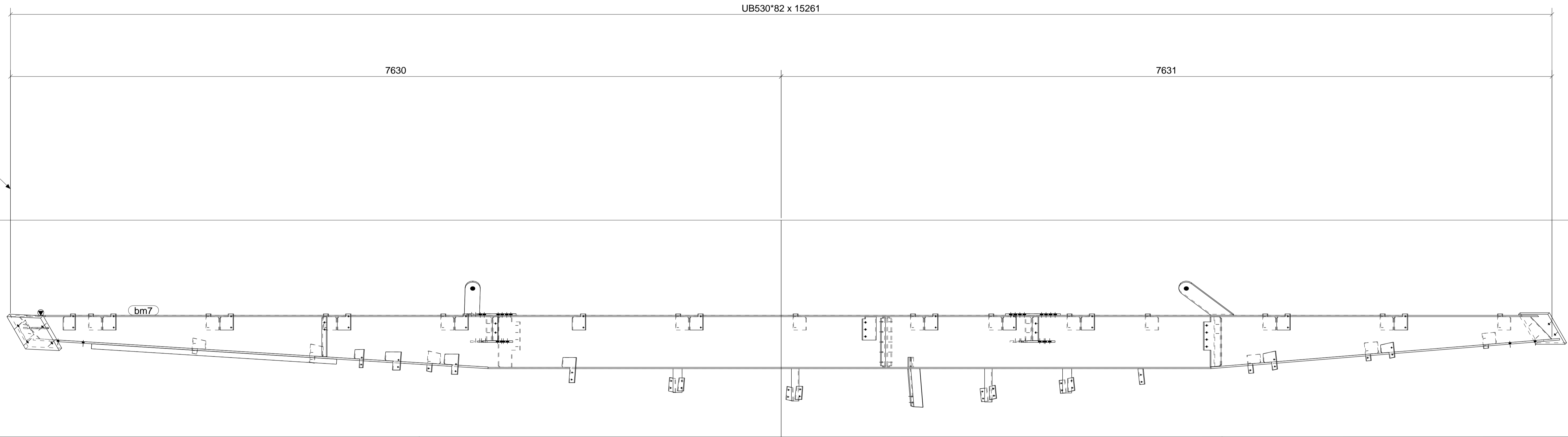
JOHN HOLLAND PTY. LTD.
415 Johnston St. Abbotsford. 3067

**SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM**

DESIGN ENGINEER:		DRAWN: AM	CHECKED: XTD	DRAWING No.	REV.
		DATE: 02.12.11	SCALE: 1:22.5	SMG-2CB7-1	A



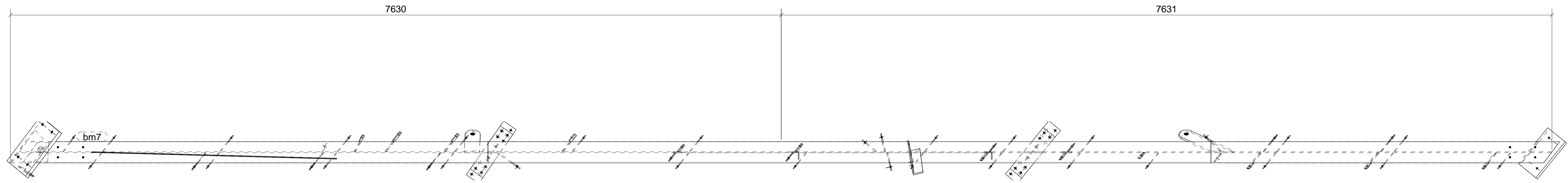
TOP VIEW



DIMENSION START POINT

REFER TO DRG SMG-2CB7-3 FOR DETAILED BEAM SECTION

REFER TO DRG SMG-2CB7-5 FOR DETAILED BEAM SECTION



BOTTOM VIEW

GENERAL NOTES

1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THIS N.S. F.S.
7. ALL HOLES Ø22 U.N.O.

PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB7-1 -2 -3 -4 -5 -6

Xtech Drafting Pty. L td.

A.B.N. 69 079 793 122
14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698

JOHN HOLLAND PTY. LTD.

415 Johnston St. Abbotsford. 3067

SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM

No	REV.	DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11

DESIGN ENGINEER:

DRAWN: AM

CHECKED: XTD

DRAWING No.

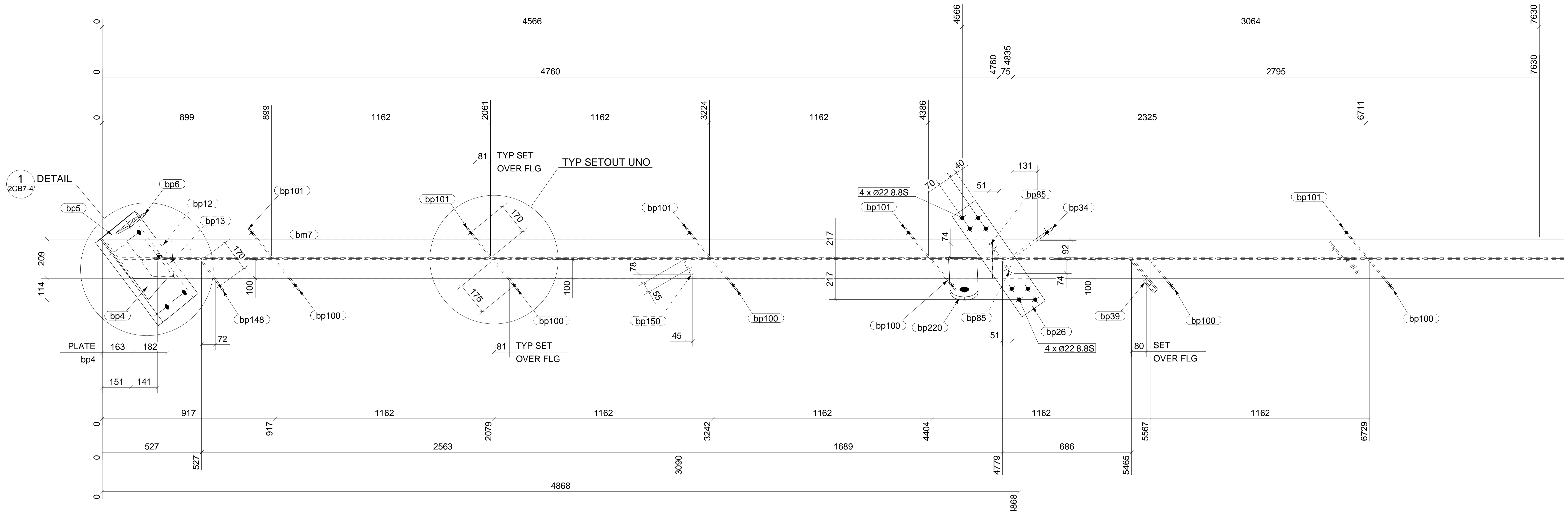
REV.

DATE: 02.12.11

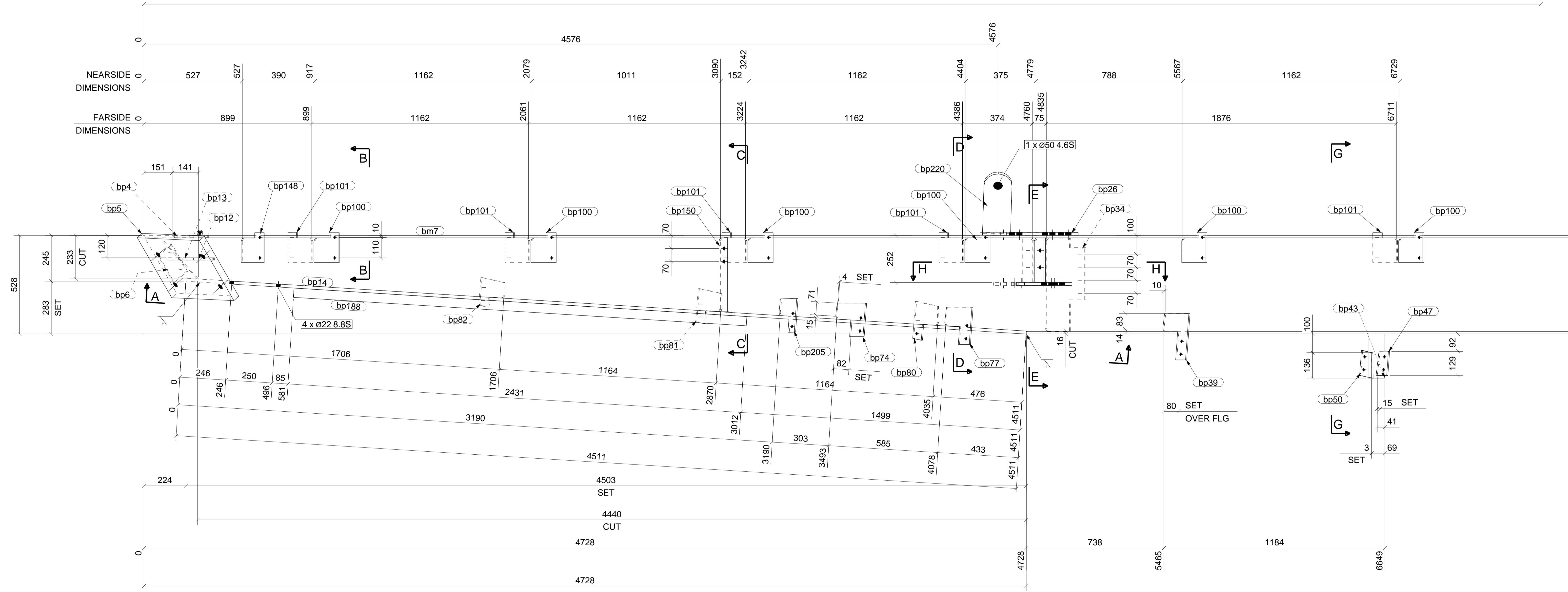
SCALE: 1:20

SMG-2CB7 -2

A



(530UB*92 x 15261) OVERALL LENGTH



NOTE:
REFER TO DRG SMG-2CB7-4
FOR SECTIONS AND DETAILS

GENERAL NOTES

1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THIS WAY: N.S. F.S.
7. ALL HOLES Ø22 U.N.O.

PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB7-1 -2 -3 -4 -5 -6

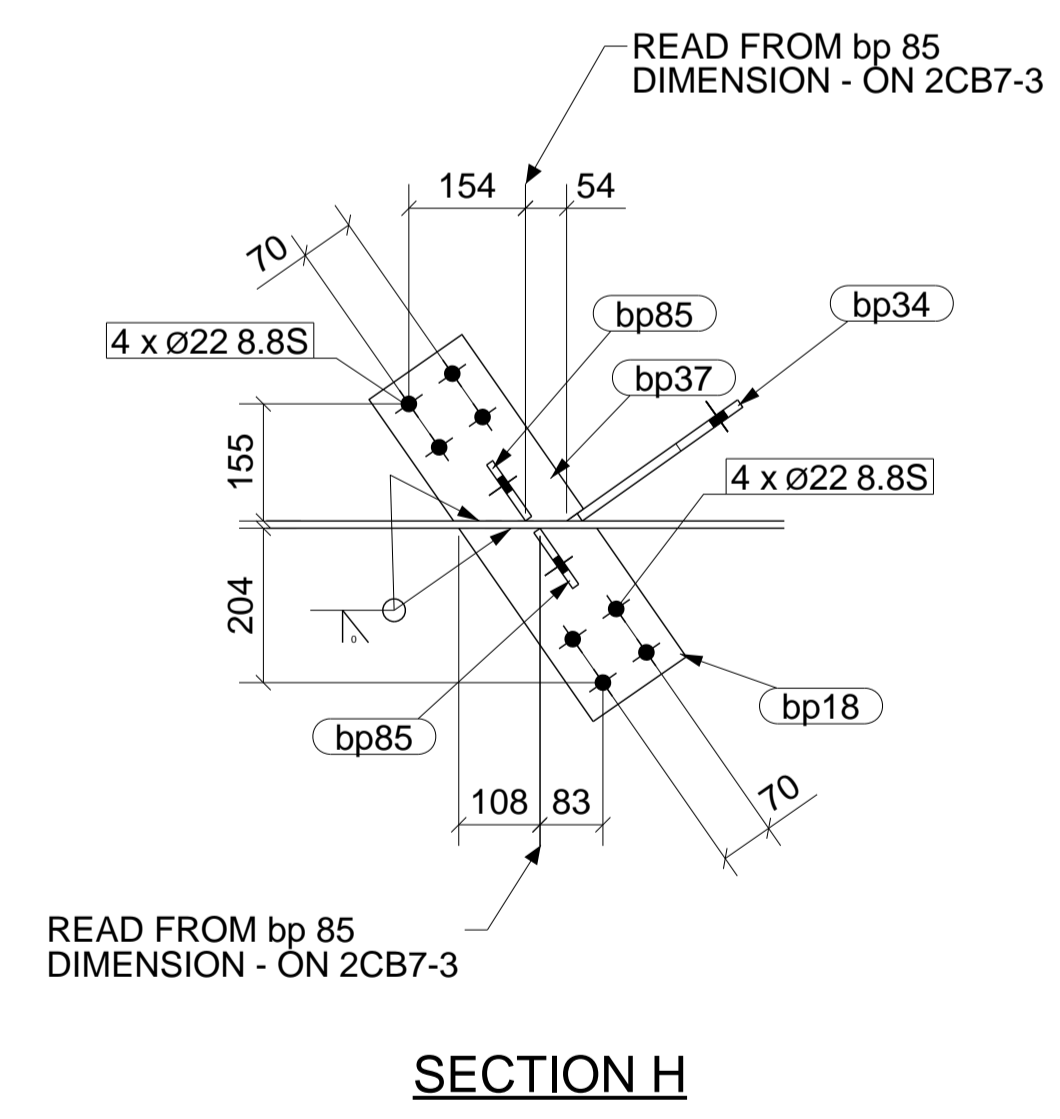
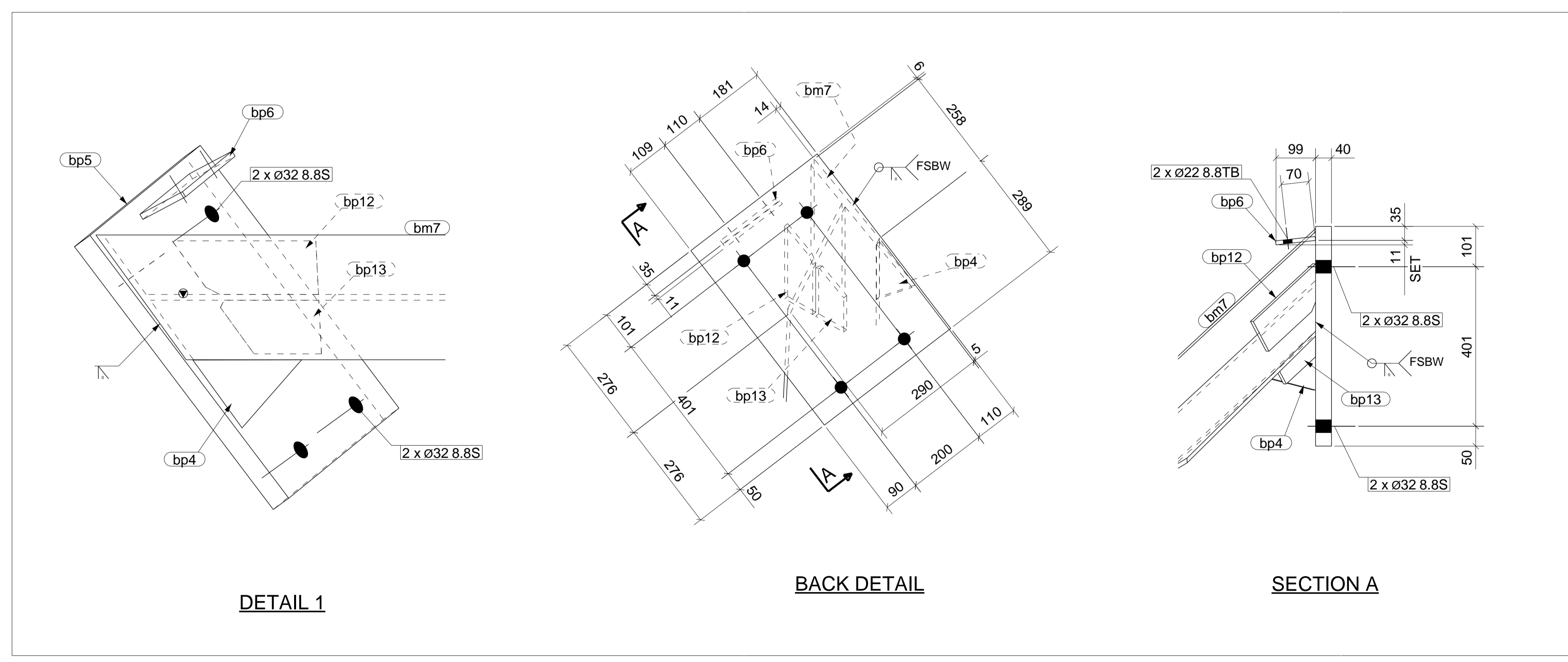
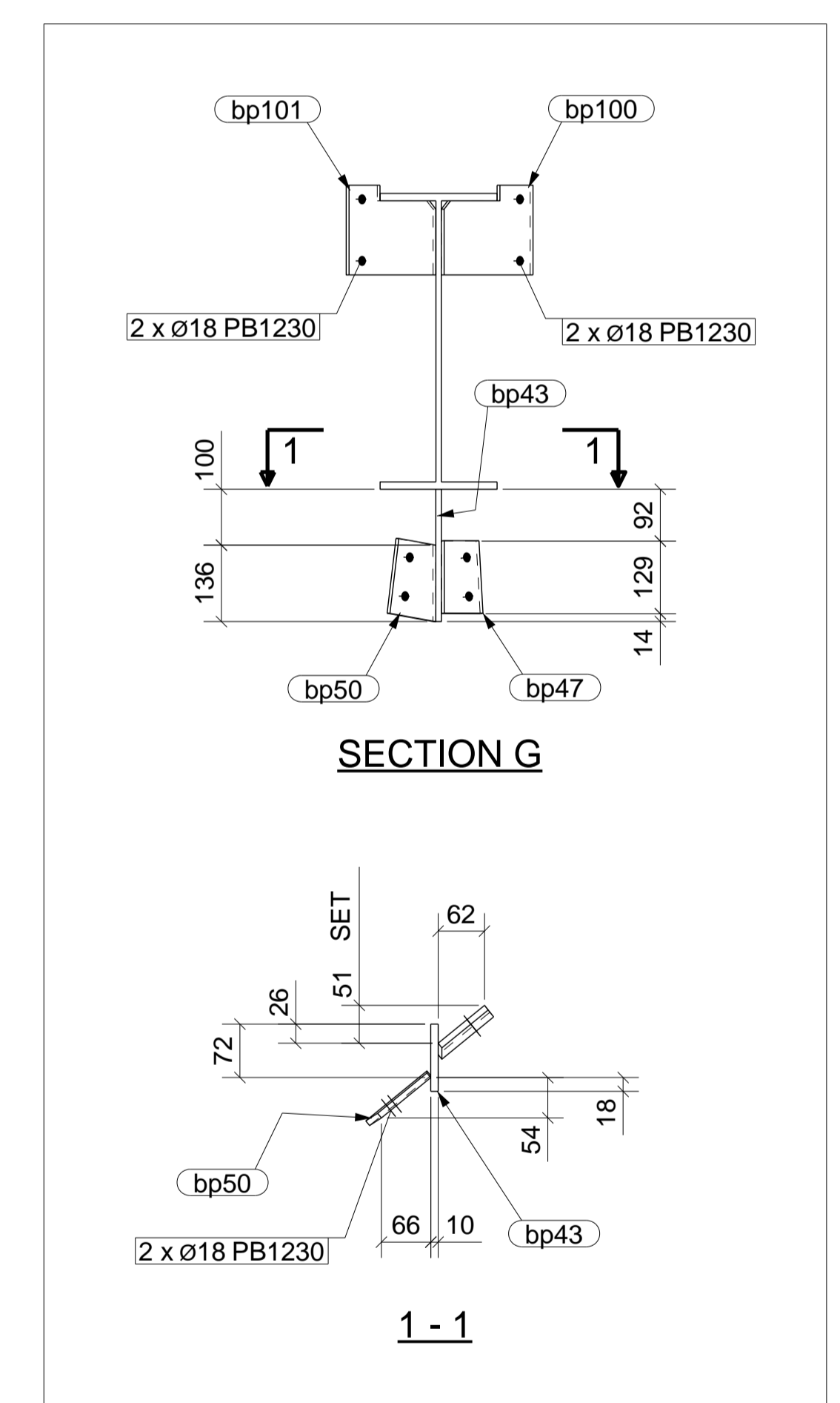
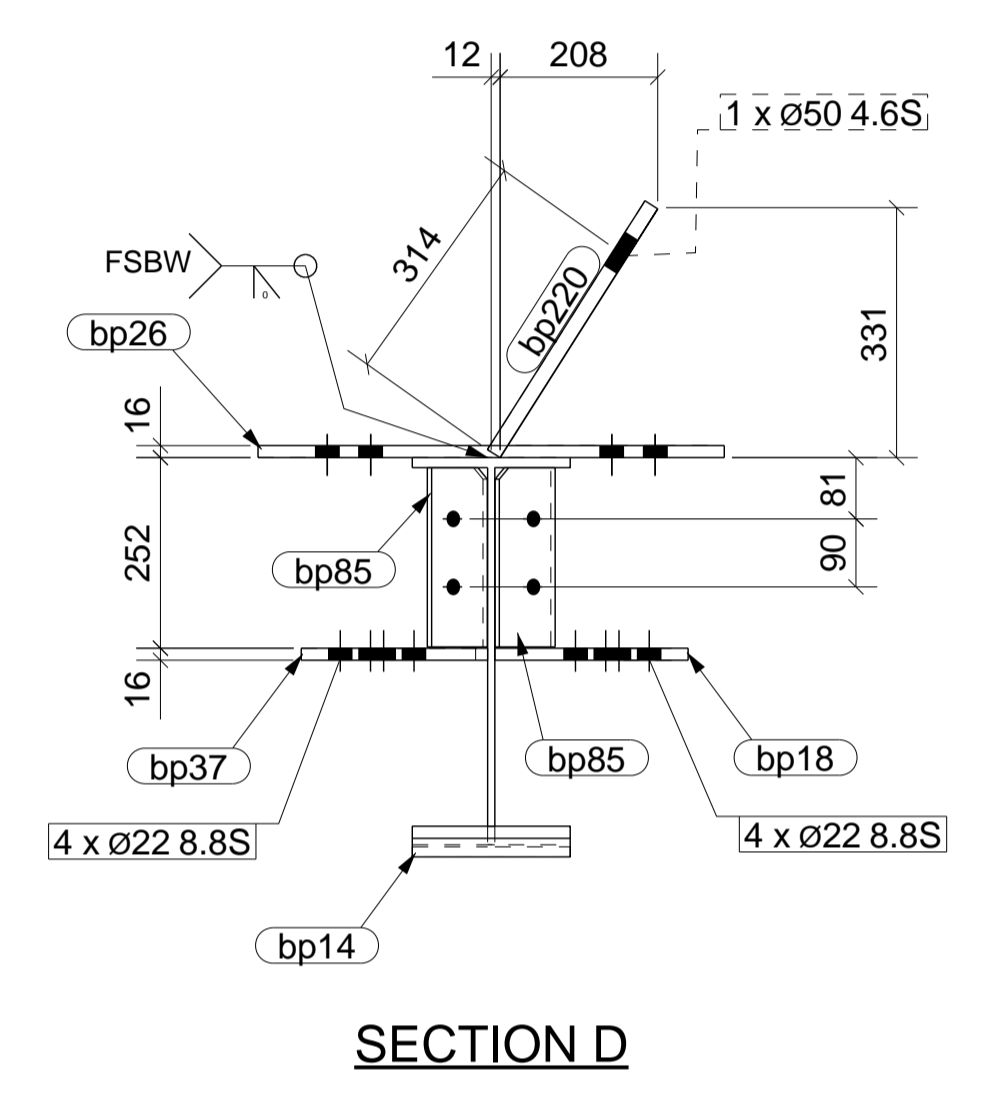
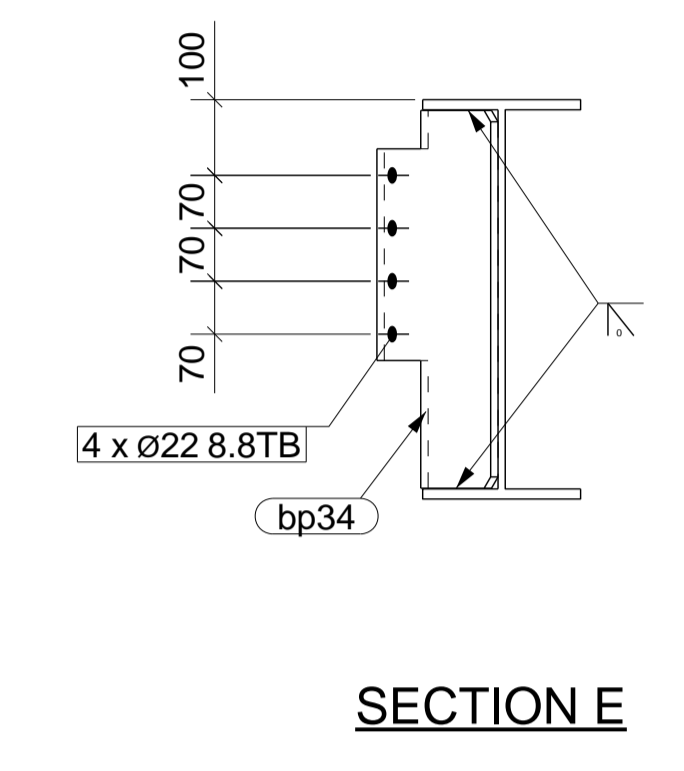
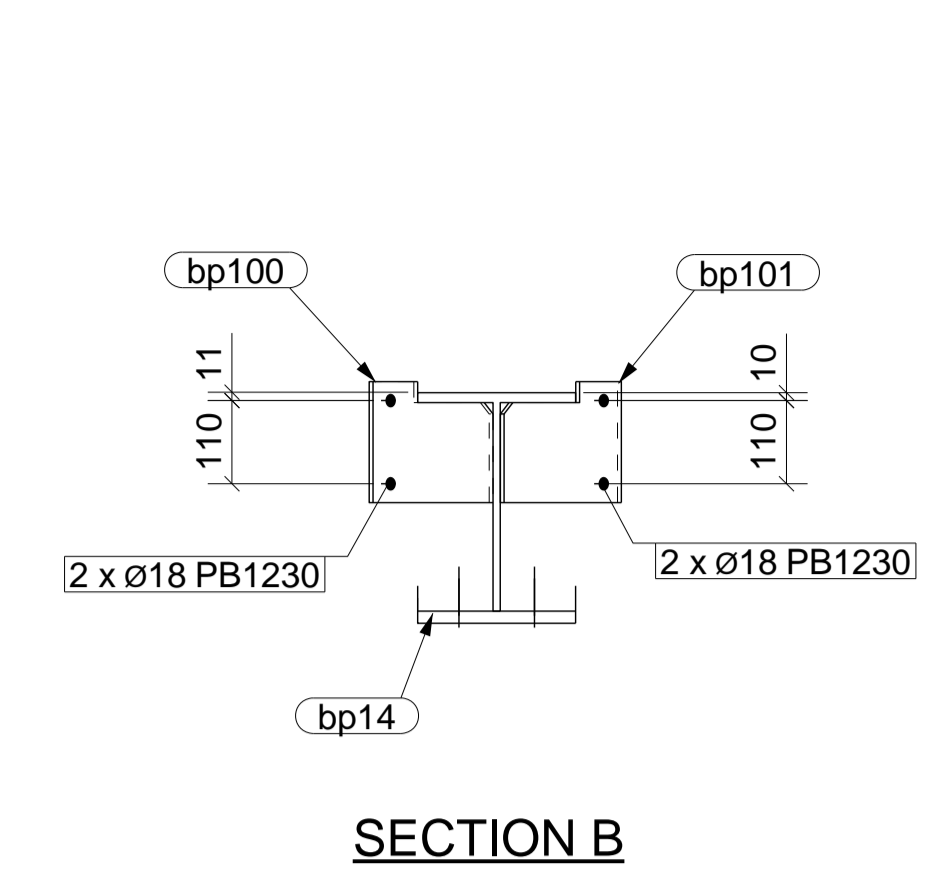
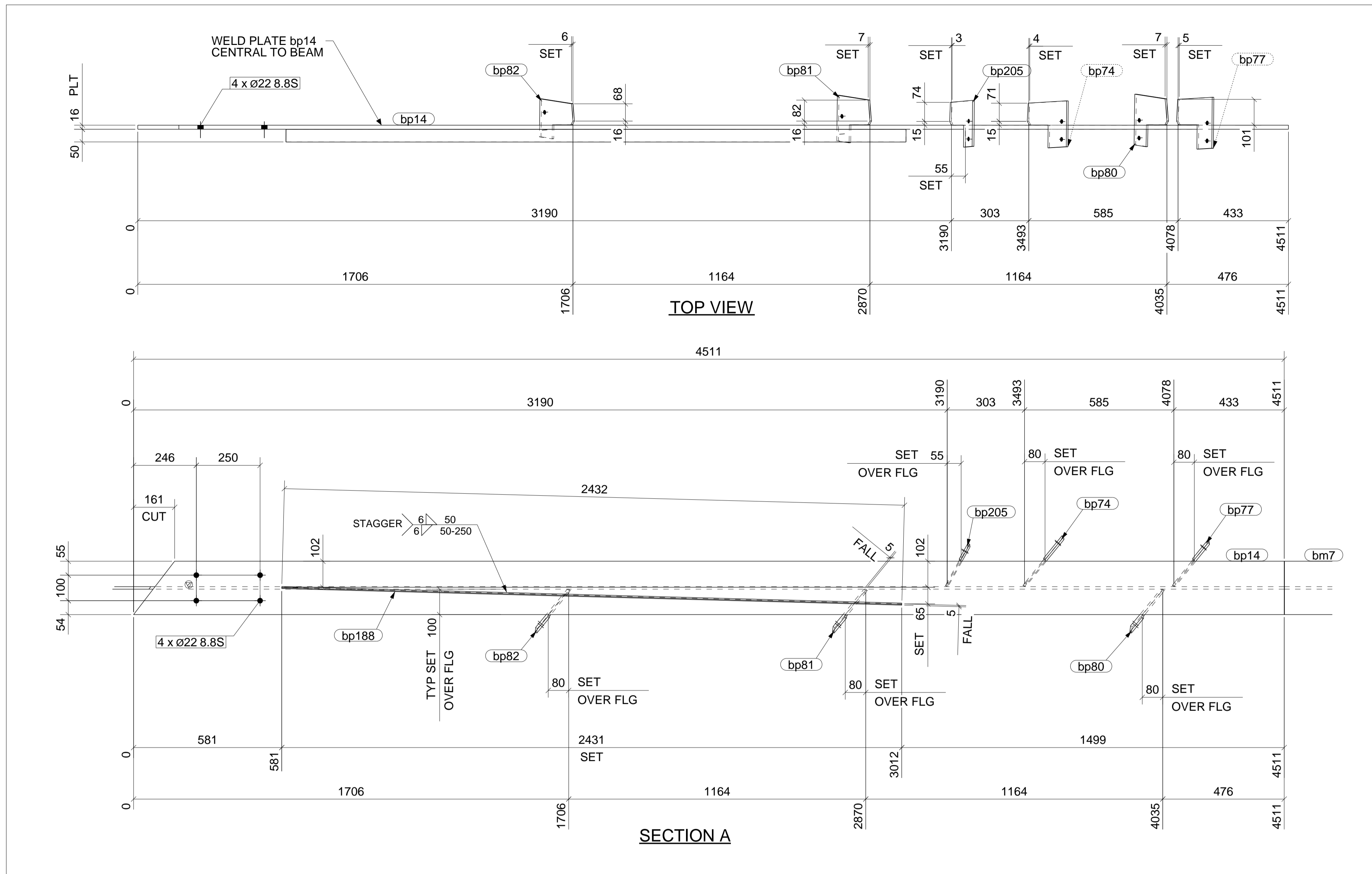
No	REV	DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11

Xtech Drafting Pty. L td.
A.B.N. 69 079 793 122
14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
JOHN HOLLAND PTY. LTD.
415 Johnson St. Abbotsford. 3067

SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM

DRAWN:	CHECKED:	DRAWING No.	REV.
AM	XTD	SMG-2CB7-3	A
DATE:	SCALE:		
02.12.11	1:10		

READ IN CONJUNCTION WITH DRG NO. SMG-2CB7-5



NOTE:
READ IN CONJUNCTION WITH
DRG NO: 2CB7-3

GENERAL NOTES

1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THIS N.S. F.S.
7. ALL HOLES Ø22 U.N.O.

PAINT : 0
PRECAMBER :

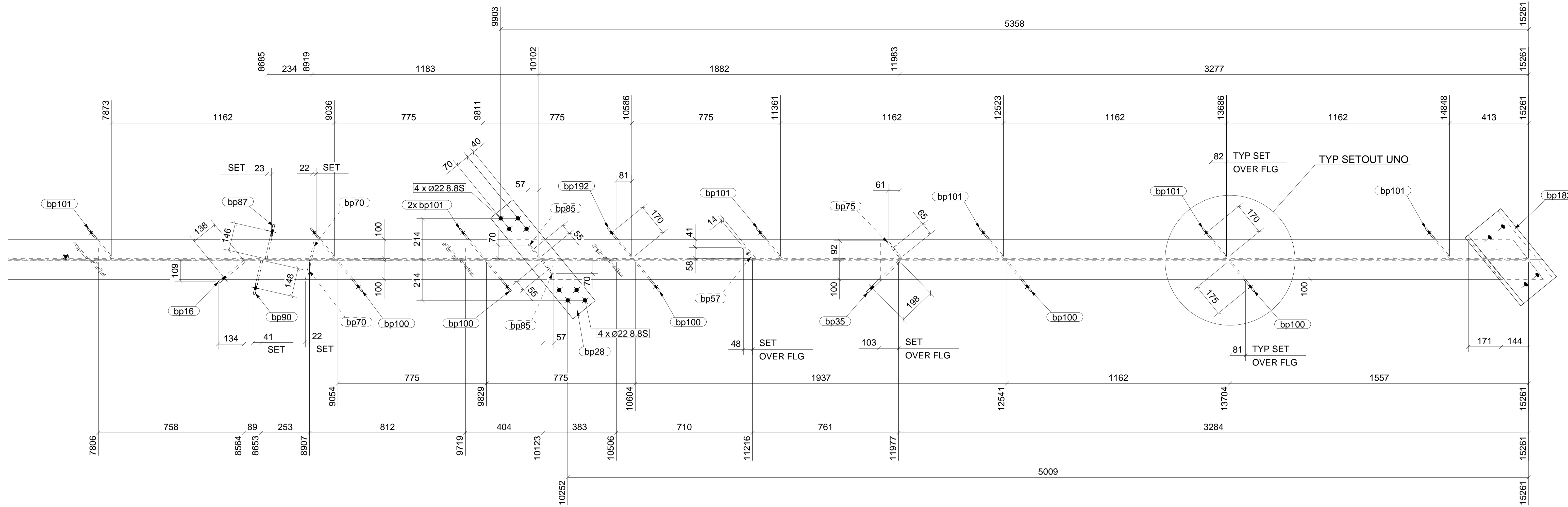
ERECTION PLAN REFERENCE:
2CB7-1 -2 -3 -4 -5 -6

No	REV	DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11

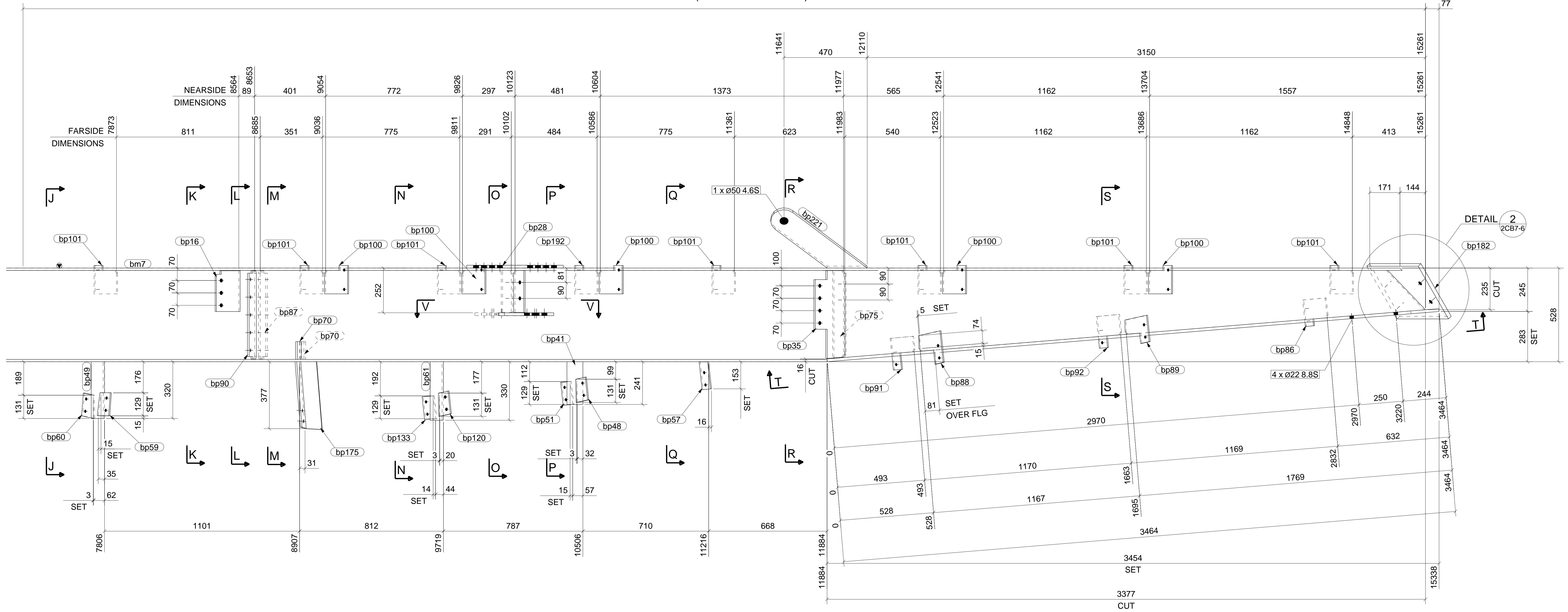
Xtech Drafting Pty. Ltd.
A.B.N. 69 079 793 122
14 / 37 - 39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
JOHN HOLLAND PTY. LTD.
415 Johnston St. Abbotsford. 3067

**SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM**

DRAWN:	CHECKED:	DESIGN ENGINEER:	DRAWING No.	REV.
AM	XTD		SMG-2CB7-4	A
DATE: 02.12.11	SCALE: 1:5			



(530UB*92 x 15261) OVERALL LENGTH



READ IN CONJUNCTION WITH DRG SMG-2CB7-3

NOTE:
REFER TO DRG SMG-2CB7-6
FOR SECTIONS AND DETAILS

GENERAL NOTES

1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
5. THIRD ANGLE PROJECTION UNLESS NOTED.
6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THIS WAY: F.S
7. ALL HOLES Ø22 U.N.O.

PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB7-1 -2 -3 -4 -5 -6

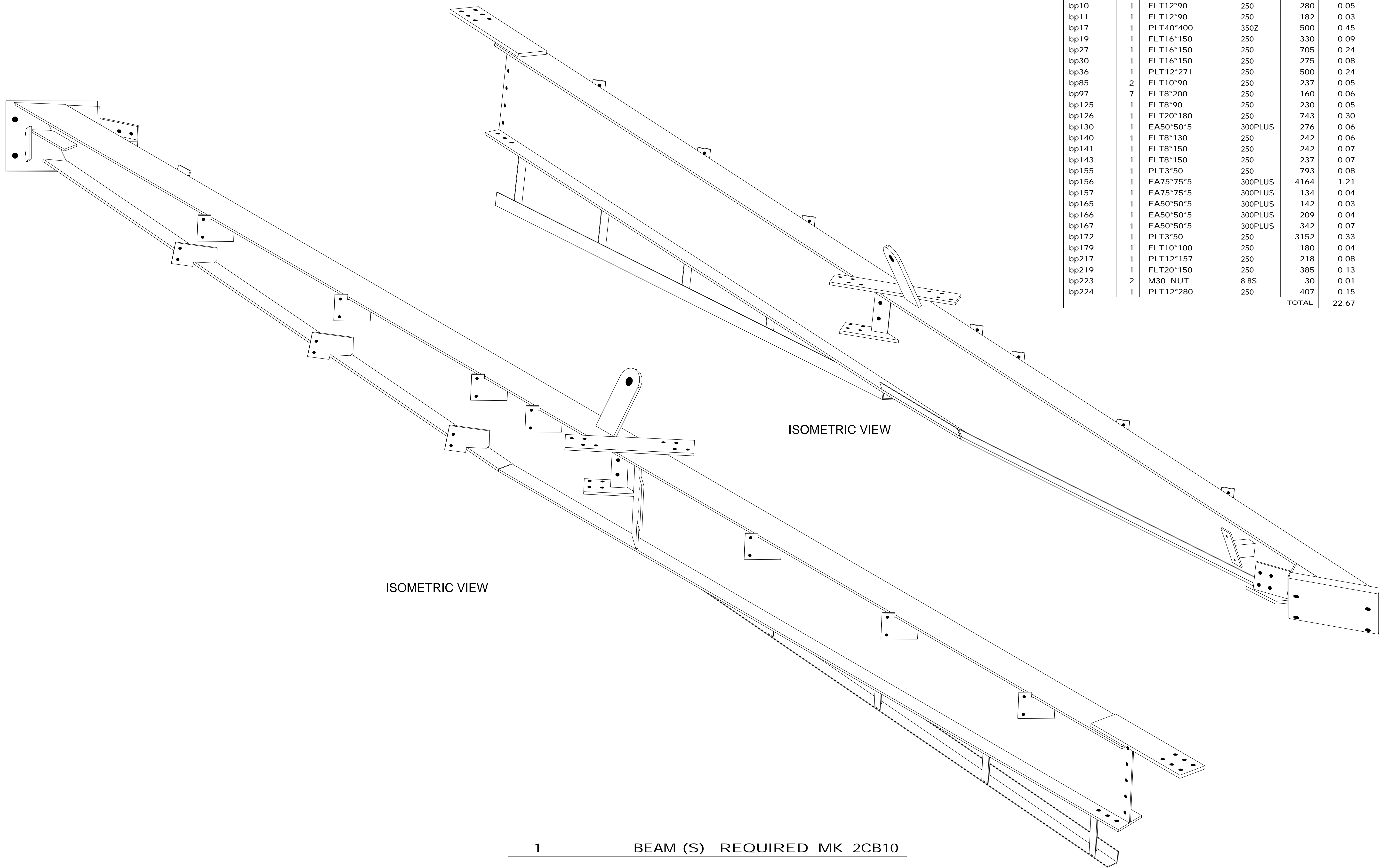
No	REV	DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11

Xtech Drafting Pty. L td.
A.B.N. 69 079 793 122
14 / 37 - 39 ALBERT RD, MELBOURNE, VIC. AUSTRALIA, 3004
PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698
JOHN HOLLAND PTY. LTD.
415 Johnson St. Abbotsford. 3067

**SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM**

DESIGN ENGINEER:		DRAWN: AM	CHECKED: XTD	DRAWING No.	REV.
		DATE: 02.12.11	SCALE: 1:10	SMG-2CB7-5	A

MATERIAL LIST FOR ONE ASSEMBLY MK'D					2CB10		1 Ass. Req'd.
ITEM	No.	SECTION	GRADE	LENGTH	AREA(m ²)	WEIGHT(kg)	
bm15	1	UB530*82	300PLUS	9237	17.09	761.3	
bp2	1	PLT16*230	250	3825	1.41	80.7	
bp8	1	PLT12*127	250	263	0.04	1.6	
bp9	1	PLT8*85	250	211	0.02	0.6	
bp10	1	FLT12*90	250	280	0.05	2.0	
bp11	1	FLT12*90	250	182	0.03	1.3	
bp17	1	PLT40*400	350Z	500	0.45	60.2	
bp19	1	FLT16*150	250	330	0.09	4.9	
bp27	1	FLT16*150	250	705	0.24	13.3	
bp30	1	FLT16*150	250	275	0.08	4.3	
bp36	1	PLT12*271	250	500	0.24	10.4	
bp85	2	FLT10*90	250	237	0.05	3.3	
bp97	7	FLT8*200	250	160	0.06	12.4	
bp125	1	FLT8*90	250	230	0.05	1.3	
bp126	1	FLT20*180	250	743	0.30	21.0	
bp130	1	EA50*50*5	300PLUS	276	0.06	1.0	
bp140	1	FLT8*130	250	242	0.06	1.7	
bp141	1	FLT8*150	250	242	0.07	2.0	
bp143	1	FLT8*150	250	237	0.07	1.9	
bp155	1	PLT3*50	250	793	0.08	0.9	
bp156	1	EA75*75*5	300PLUS	4164	1.21	22.0	
bp157	1	EA75*75*5	300PLUS	134	0.04	0.7	
bp165	1	EA50*50*5	300PLUS	142	0.03	0.5	
bp166	1	EA50*50*5	300PLUS	209	0.04	0.7	
bp167	1	EA50*50*5	300PLUS	342	0.07	1.2	
bp172	1	PLT3*50	250	3152	0.33	3.7	
bp179	1	FLT10*100	250	180	0.04	1.4	
bp217	1	PLT12*157	250	218	0.08	3.2	
bp219	1	FLT20*150	250	385	0.13	8.6	
bp223	2	M30_NUT	8.8S	30	0.01	1.0	
bp224	1	PLT12*280	250	407	0.15	6.2	
TOTAL					22.67	1035.3	



GENERAL NOTES
 1. WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
 2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
 5. THIRD ANGLE PROJECTION UNLESS NOTED.
 6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS N S F S
 7. ALL HOLES Ø22 U.N.O.

PAINT : 0
 PRECAMBER :

ERECTION PLAN REFERENCE:
 2CB10-1 -2 -3

1	A	ISSUED FOR APPROVAL	02.12.11
No	REV.	DESCRIPTION	DATE

Xtech Drafting Pty. L td.
 A.B.N. 69 079 793 122
 14/37 - 39 ALBERT RD. MELBOURNE. VIC. AUSTRALIA. 3004
 PH. +61 3 9866 1015 FAX. +61 3 9866 1016 MOB. 0411 566 698

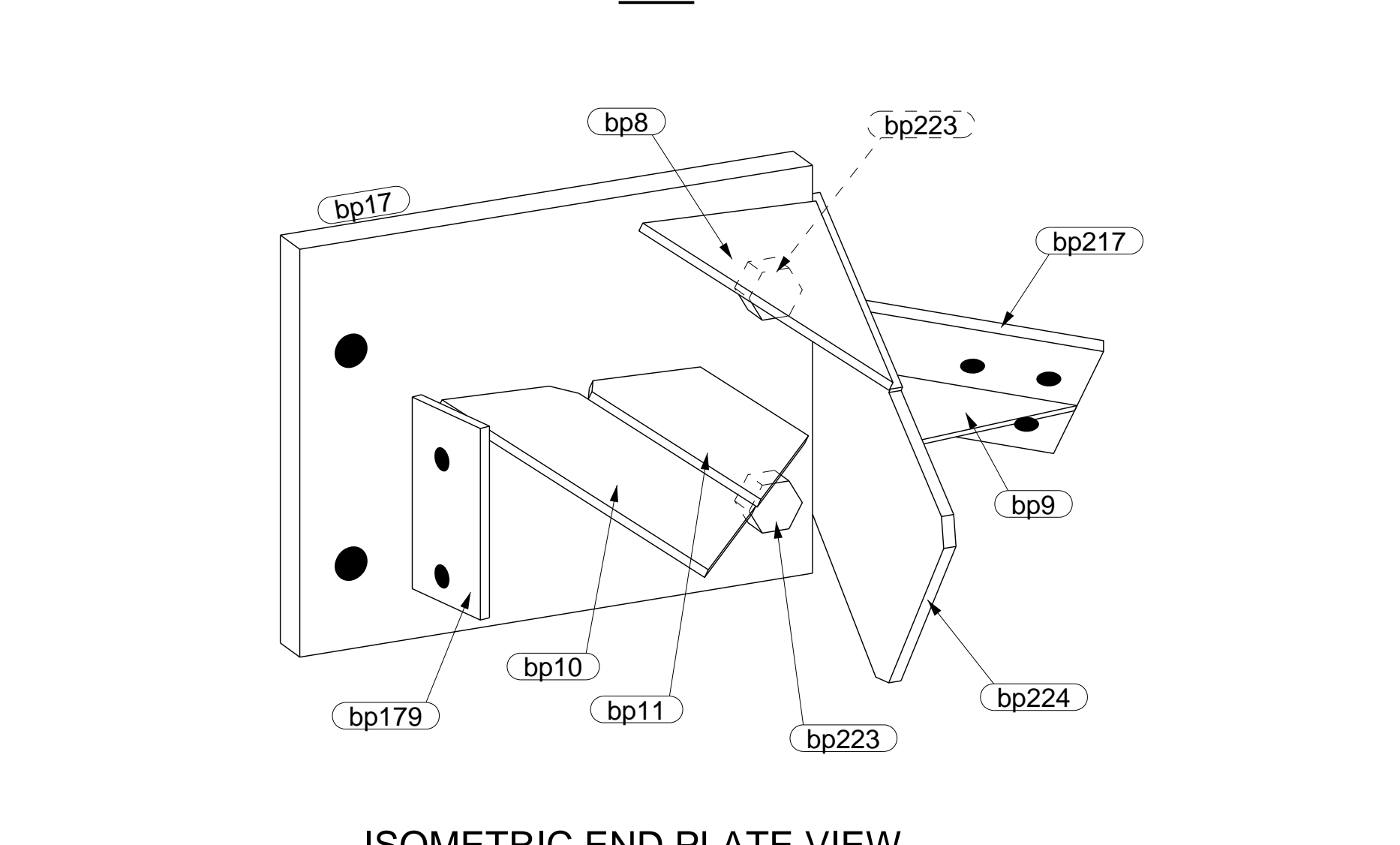
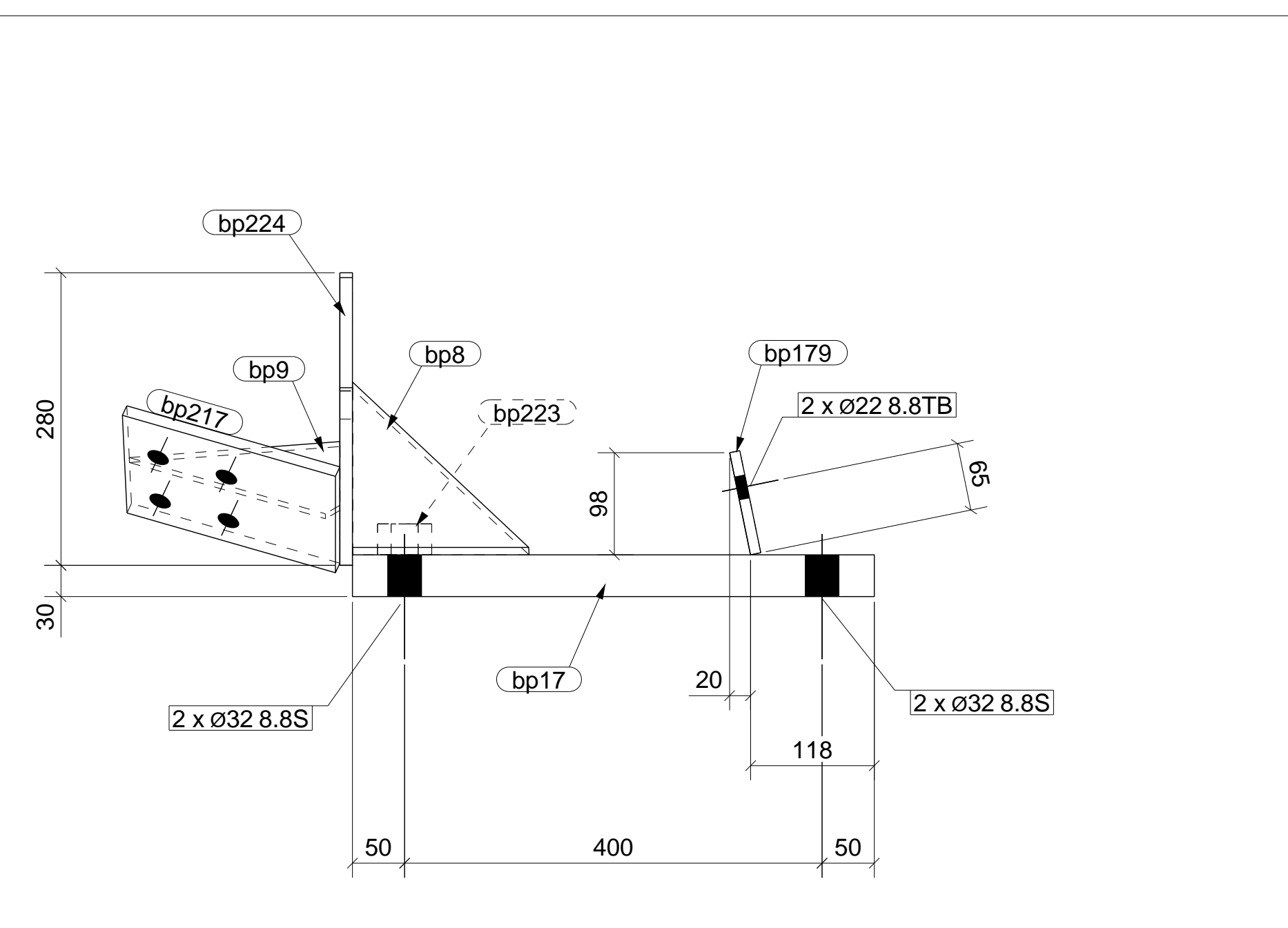
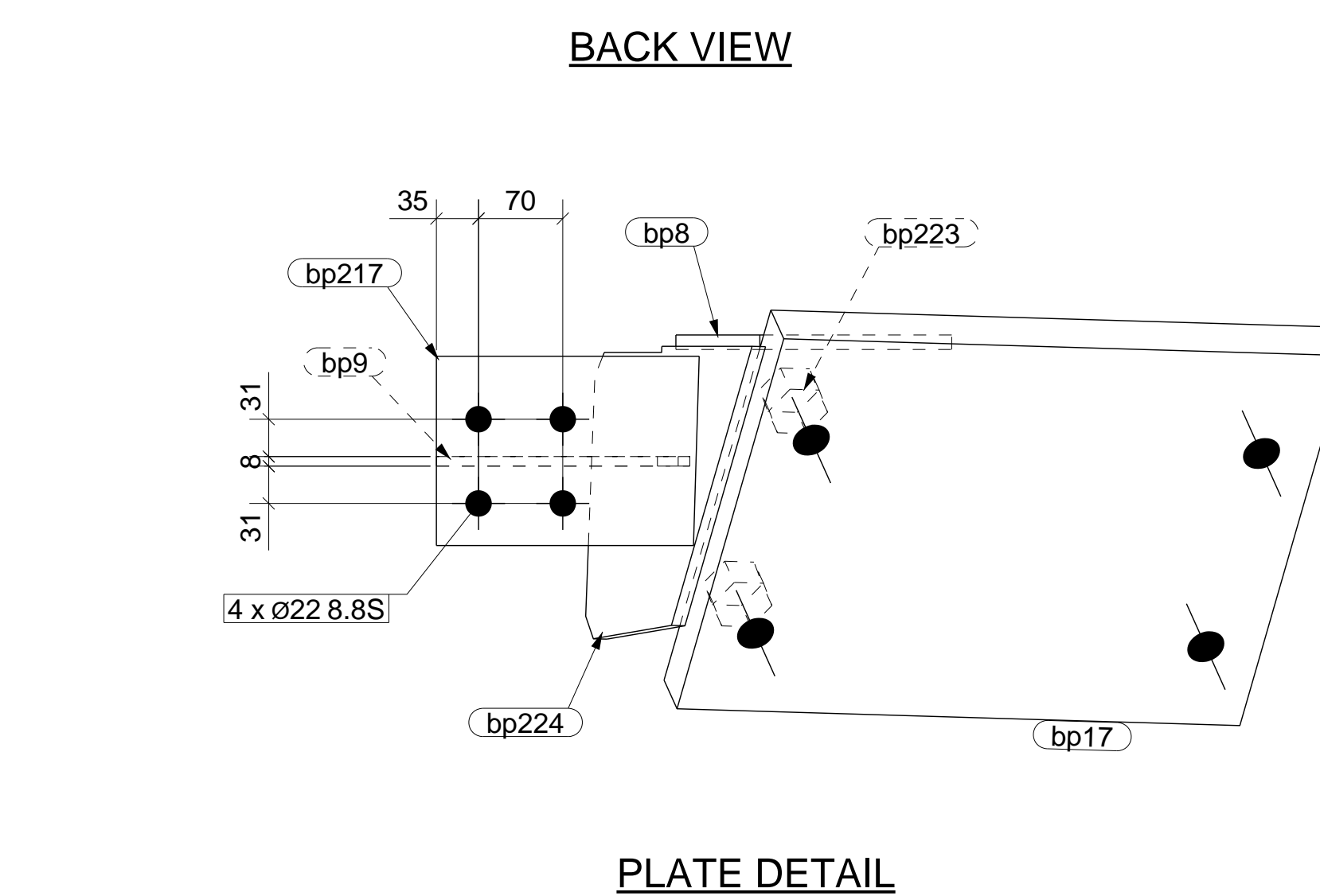
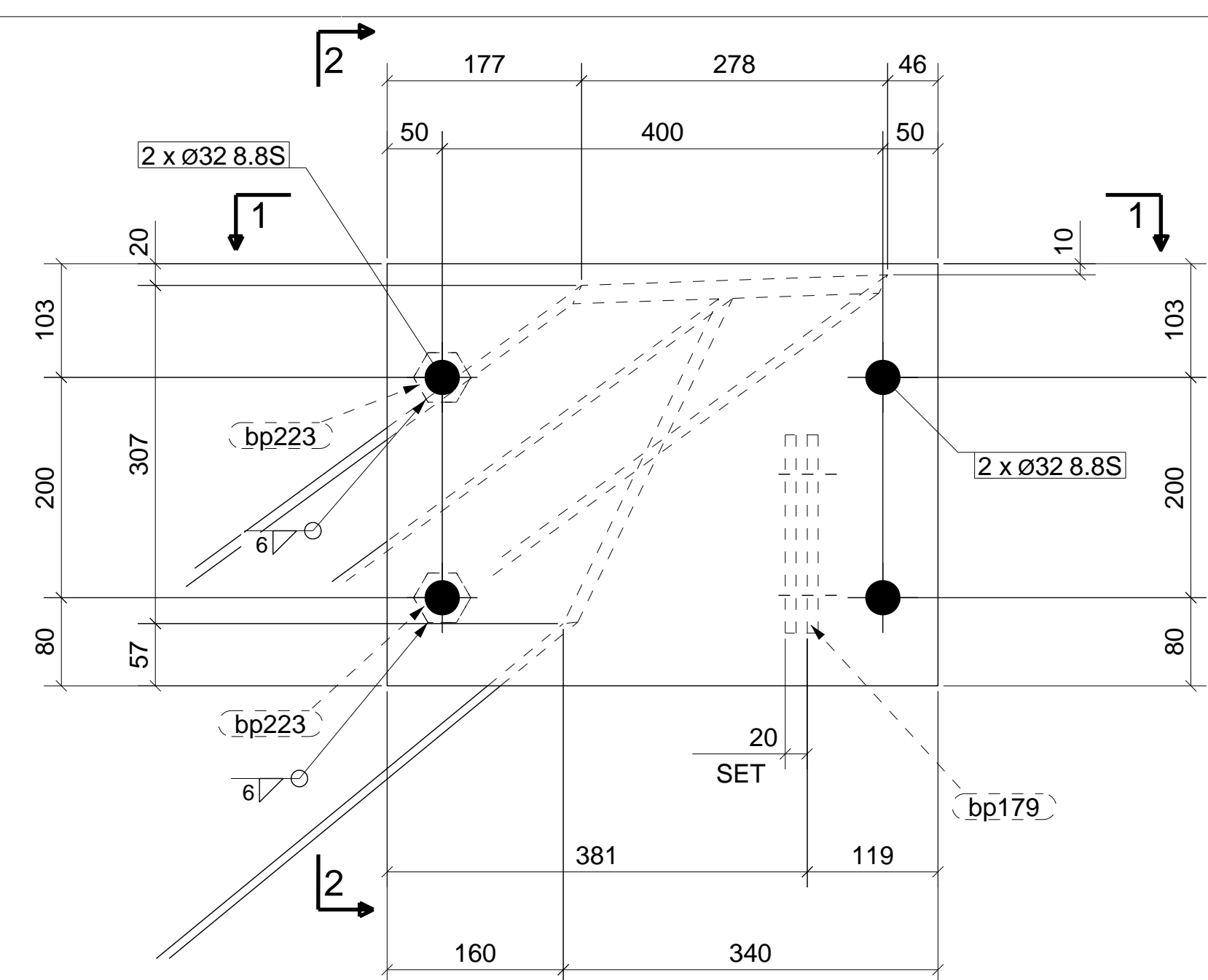
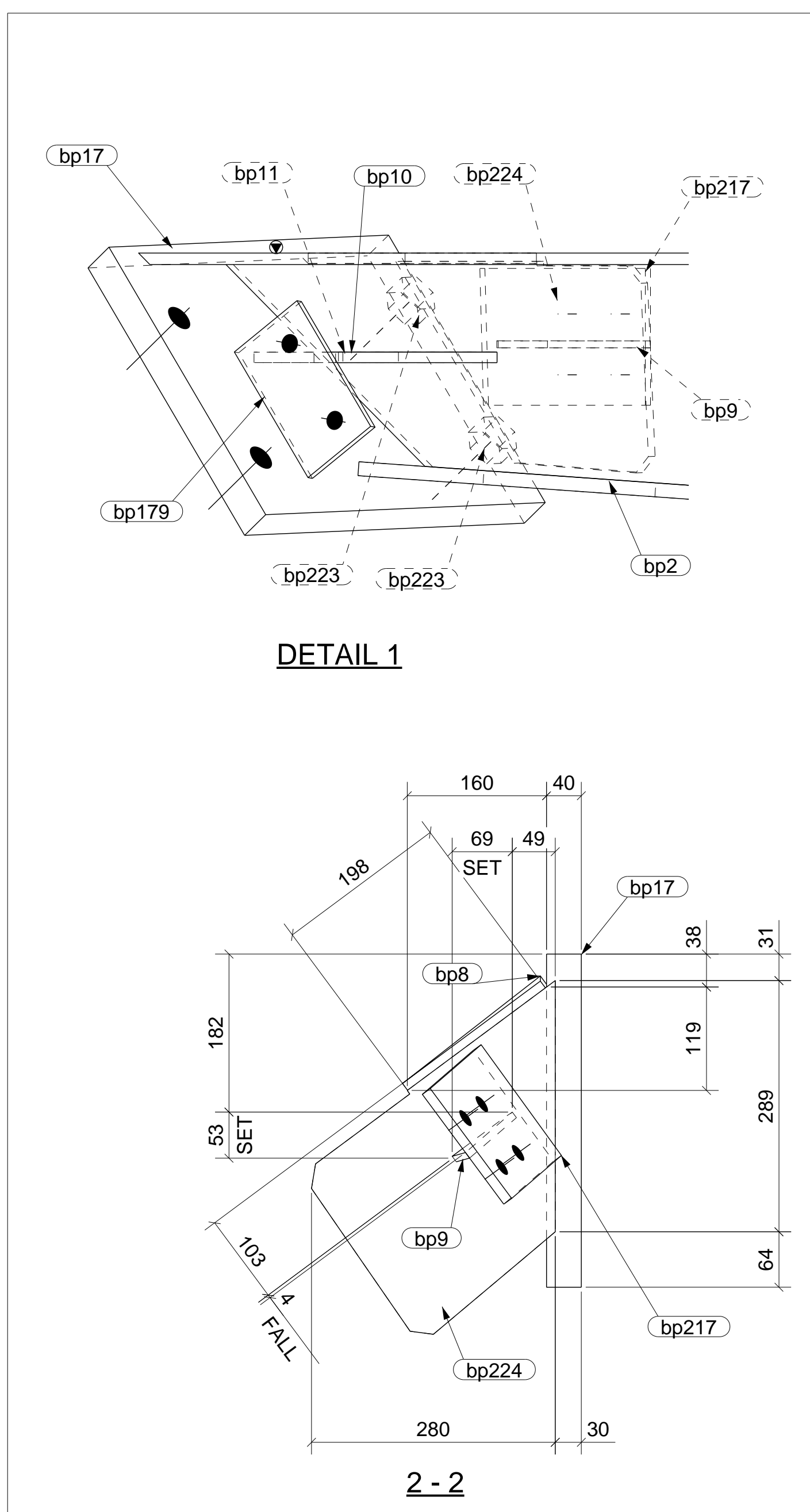
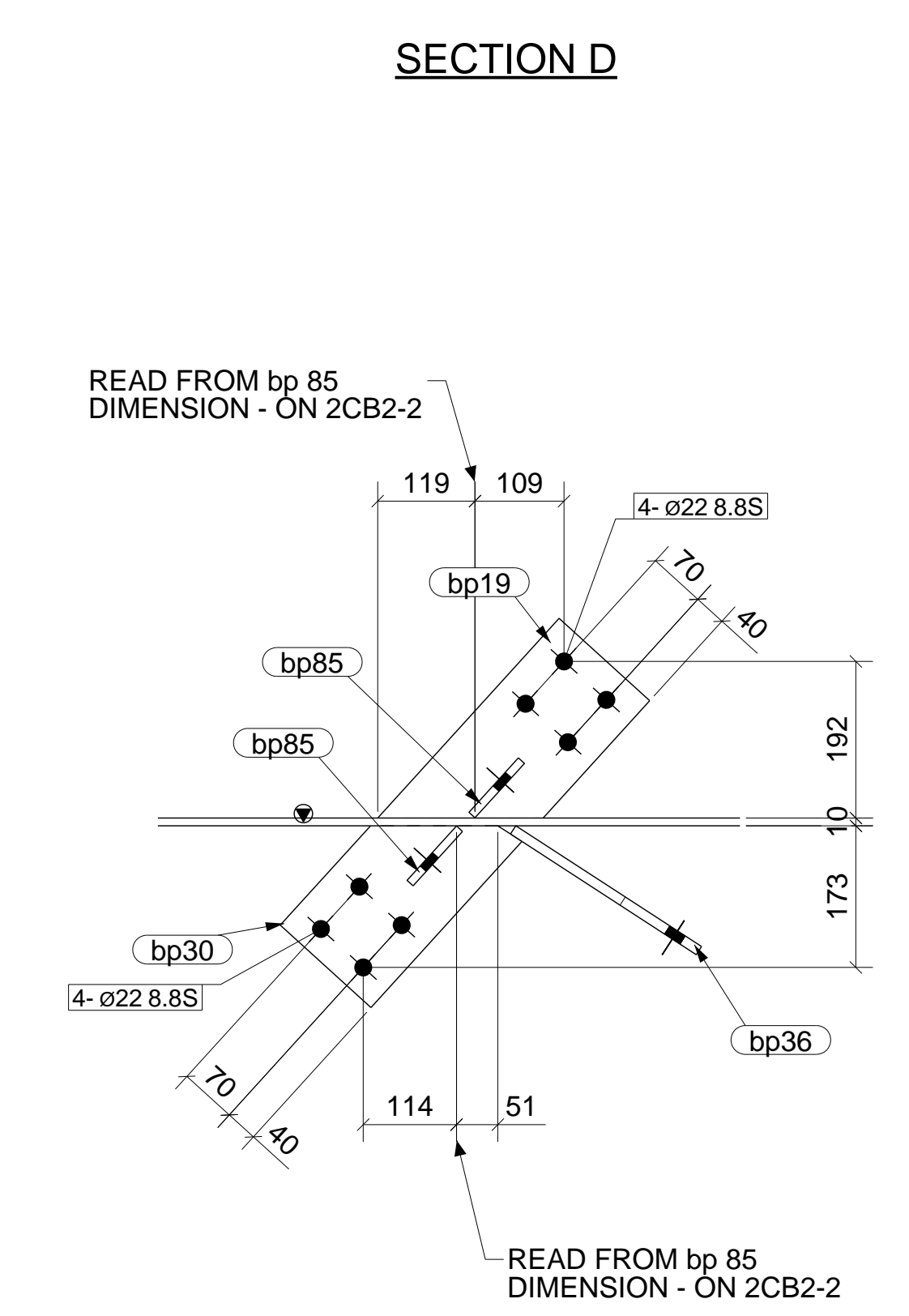
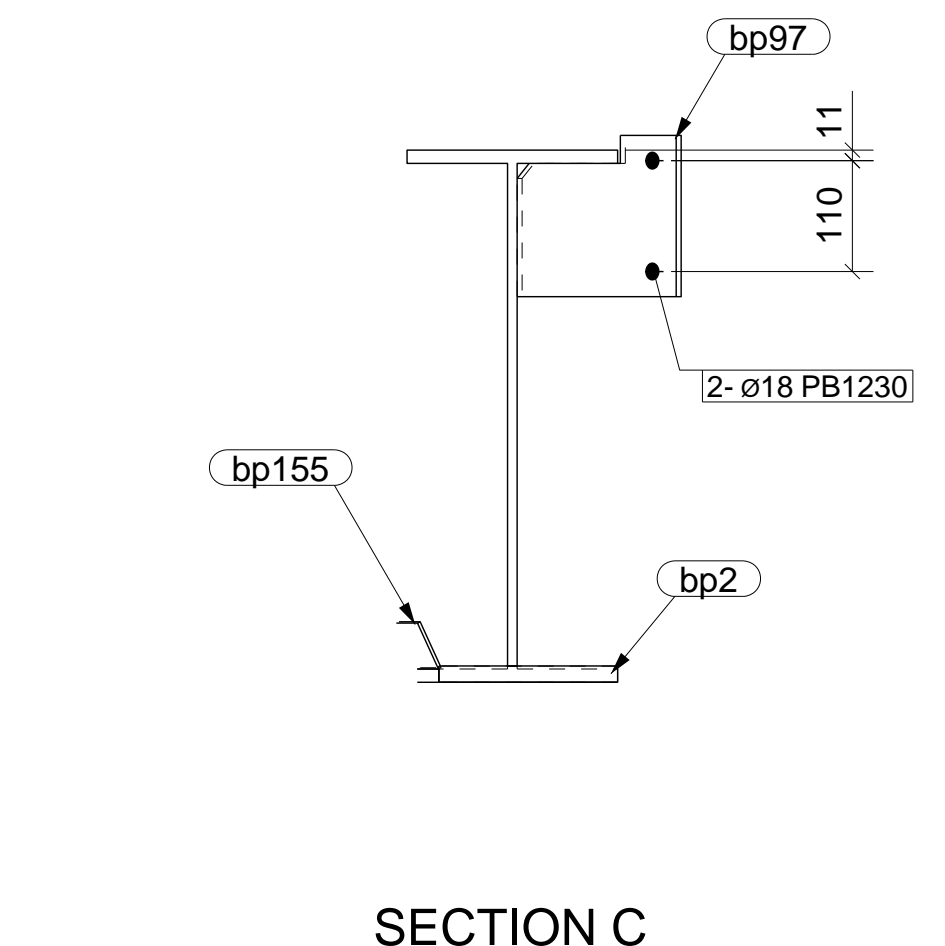
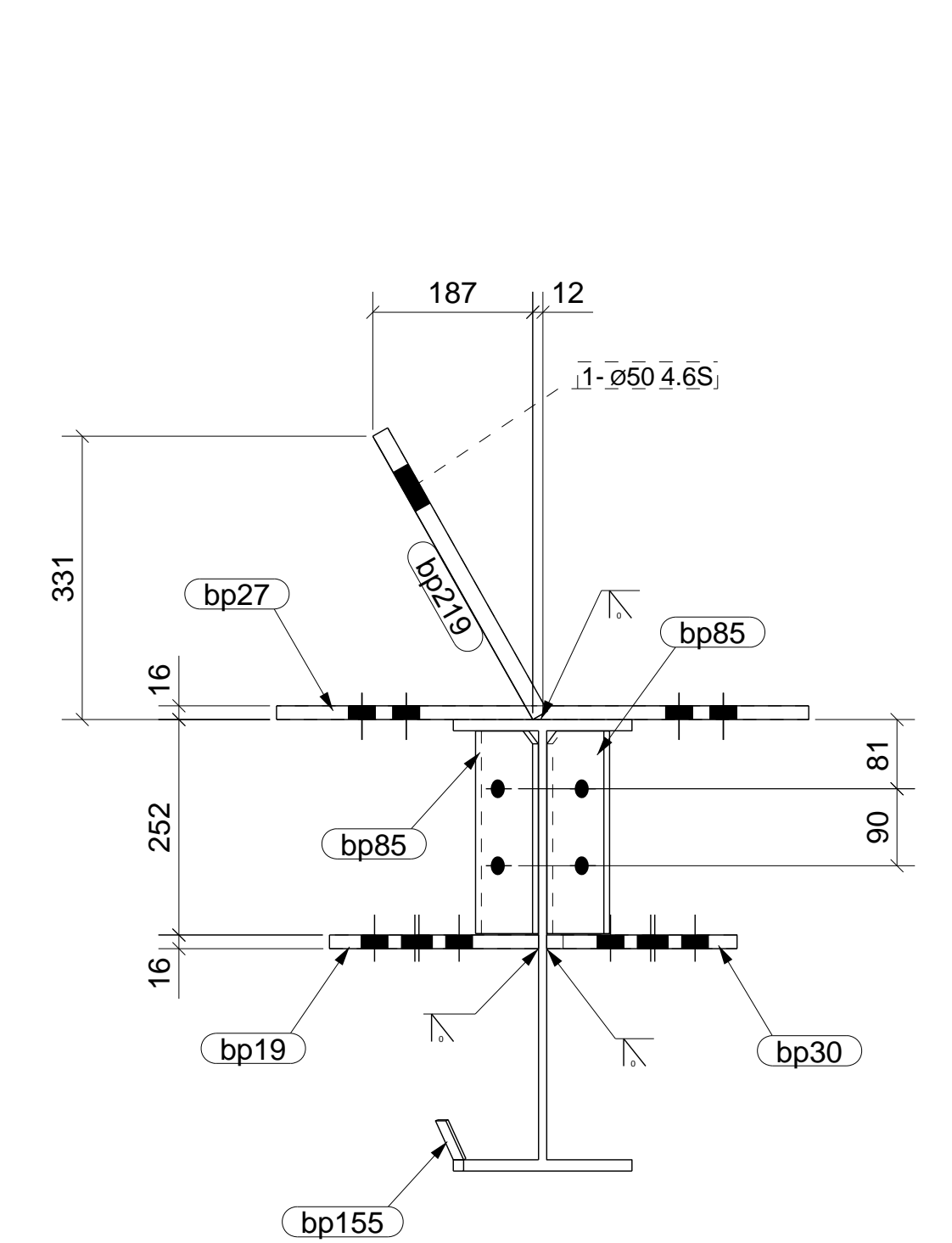
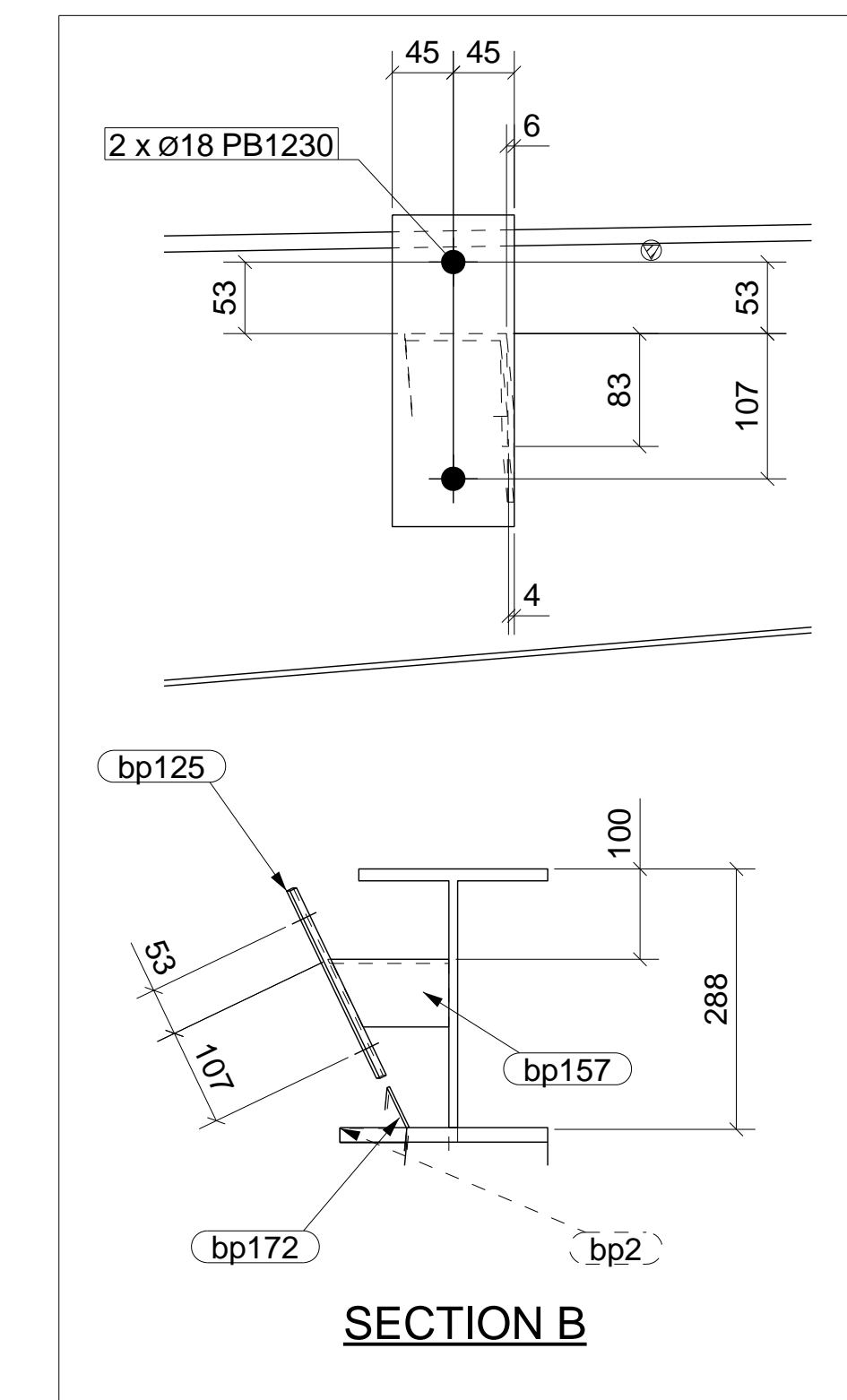
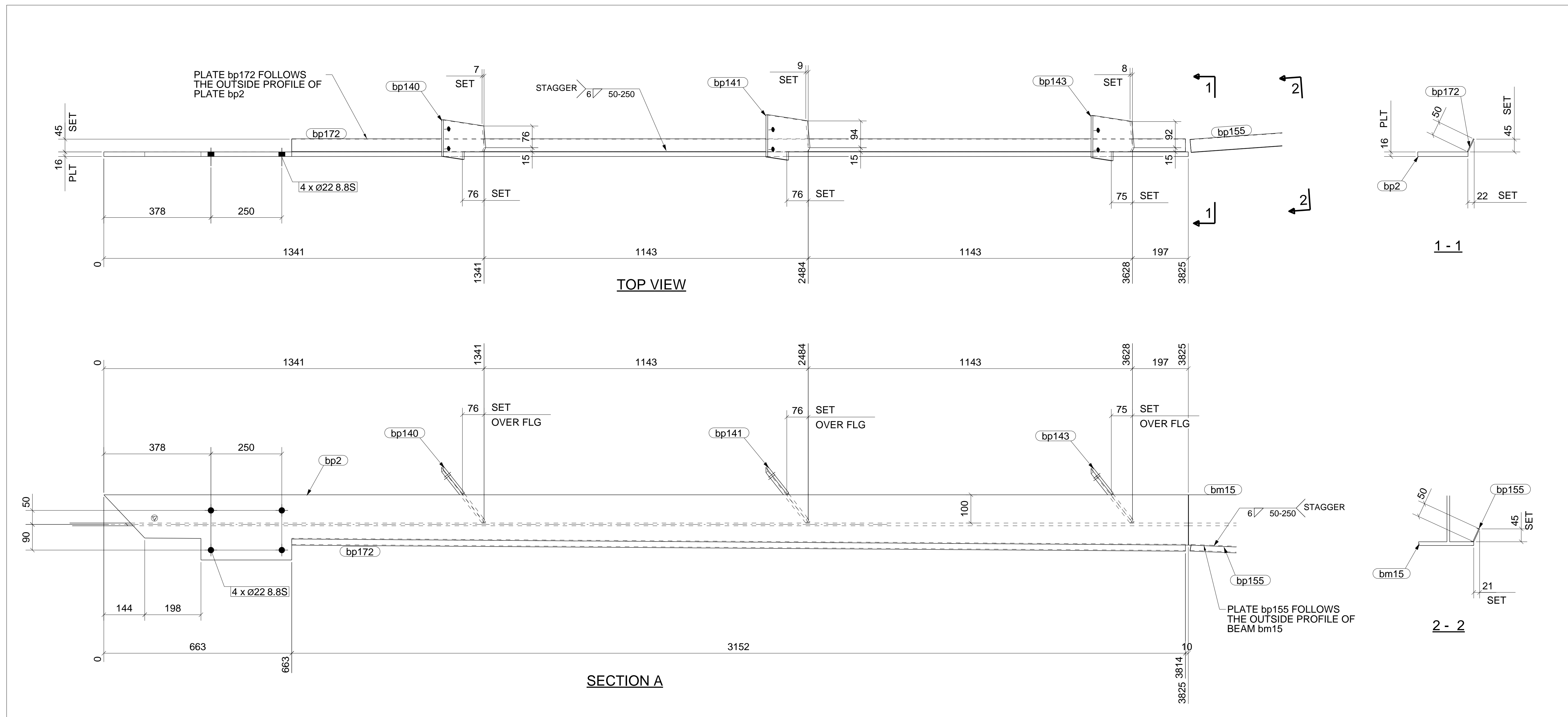
JOHN HOLLAND PTY. LTD.
 415 Johnston St. Abbotsford. 3067

DESIGN ENGINEER:

SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM

DRAWN: AM
 CHECKED: XTD
 DATE: 02.12.11
 SCALE: 1:10

DRAWING No. **SMG-2CB10-1**
 REV. **A**



NOTE:
READ IN CONJUNCTION WITH
DRG NO 2CB10-2 FOR BEAM DETAIL

- GENERAL NOTES**
1. WELDS & CONT. FILLET (CAT. SP) UNLESS NOTED.
 2. ALL BOLT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 4. NO PAINT IN WAY OF FF BOLT CONNECTIONS.
 5. THIRD ANGLE PROJECTION UNLESS NOTED.
 6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS: N.S. F.S.
 7. ALL HOLES Ø2 UN.D.

PAINT : 0
PRECAMBER :

ERECTION PLAN REFERENCE:
2CB10-1 -2 -3

Xtech Drafting Pty. L td.
14/37 -39 ALBERT RD. MELBOURNE, VIC. AUSTRALIA. 3004
PH: +61 3 9866 1015. FAX: +61 3 9866 1016. MOB: 0411 566 698
JOHN HOLLAND PTY. LTD.
415 Johnston St. Abbotsford. 3067

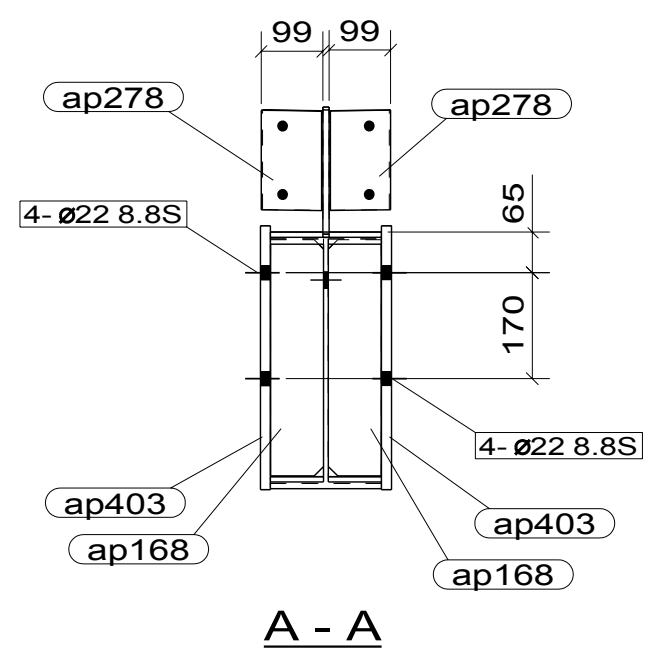
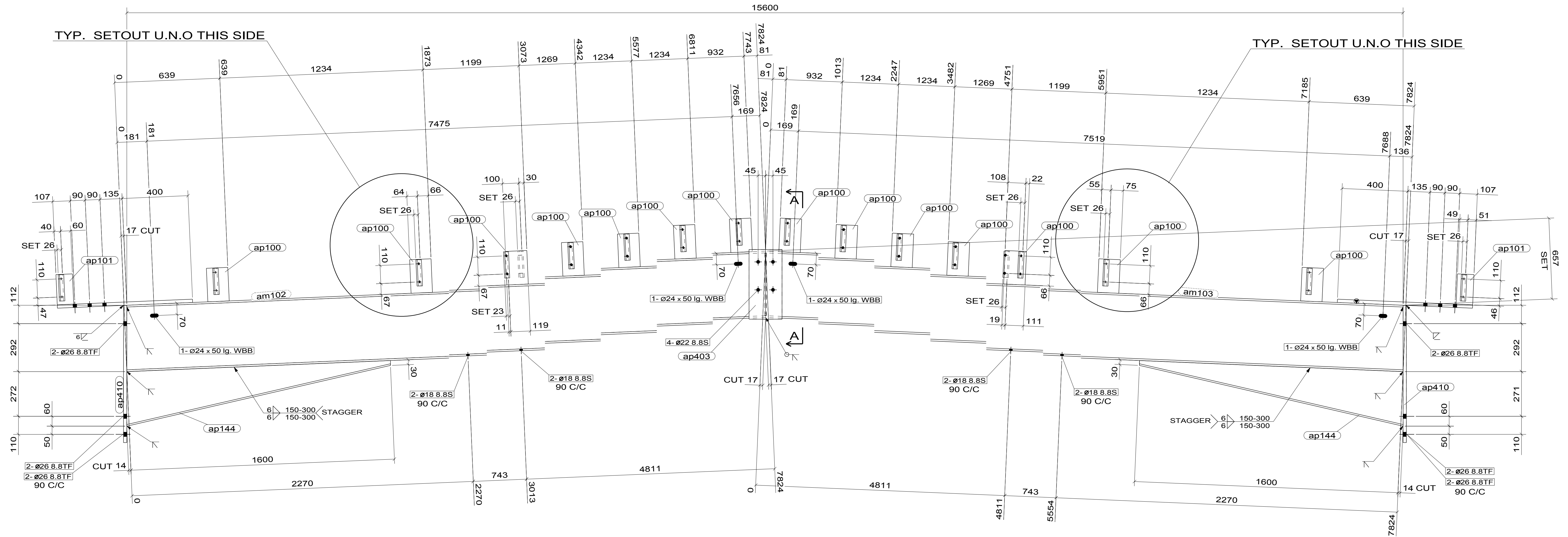
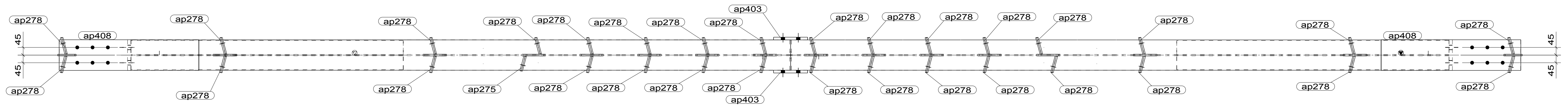
**SOUTH MORANG RAIL EXTENTION
SOUTH MORANG STATION
SOUTH MORANG LINK CANOPY
BEAM**

No.	REV.	ISSUED FOR APPROVAL DESCRIPTION	DATE
1	A	ISSUED FOR APPROVAL	02.12.11

DESIGN ENGINEER:

DRAWN	CHECKED	SCALE	DRAWING No.	REV.
AM	XTD	1:5	SMG-2CB10-3	A

MATERIAL LIST FOR ONE ASSEMBLY MK				1R9	1	Ass. Req'd.
ITEM	No.Off	SECTION	LENGTH	GRADE	WEIGHT(kg)	AREA(m ²)
am102	1	UB410*54	7824	300PLUS	423.2	11.6
am103	1	UB410*54	7824	300PLUS	423.2	11.6
ap100	14	FLT10*130	204	250	2.1	0.1
ap101	2	FLT10*100	184	250	1.4	0.0
ap144	2	UB360*45	1724	250	77.4	2.3
ap168	2	PLT10*85	379	250	2.5	0.1
ap275	1	FLT8*90	160	250	0.9	0.0
ap278	31	FLT8*100	160	250	1.0	0.0
ap403	2	FLT16*200	423	250	10.6	0.2
ap408	2	FLT20*180	821	250	23.2	0.3
ap410	2	FLT20*180	834	250	23.6	0.3
TOTAL					1185.1	31.8



1 RAFTER (S) REQUIRED MK 1R9

GENERAL NOTES
 1. WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
 2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
 5. THIRD ANGLE PROJECTION UNLESS NOTED.
 6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS ∇ N S F S

PAINT : G.O.Z.P.
 PRECAMBER : 25mm

No.	DATE	ISSUED FOR APPROVAL	DETAILS	REVISIONS
A	27.02.04	ISSUED FOR APPROVAL		

Ktech Drafting Pty. Ltd.
 A.B.N. 30 105 598 885
 171 DOW ST, PORT MELBOURNE, VICTORIA, AUST. 3207
 PH (03) 9636 3616 MOBILE 0411 566 698
STILCON HOLDINGS PTY. LTD.
 37 LINK COURT BROOKLYN 3025 PH.9314 1611 FAX. 9315 1559

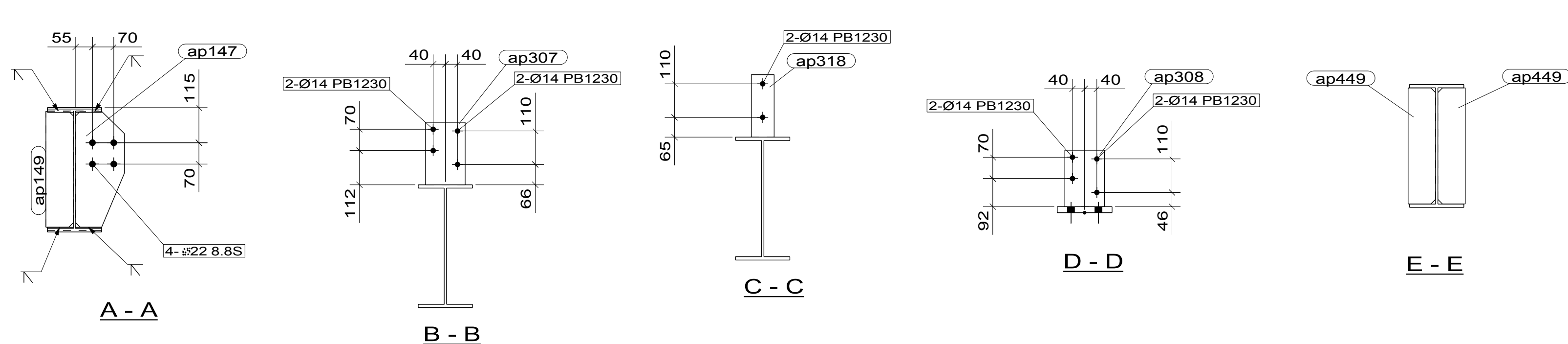
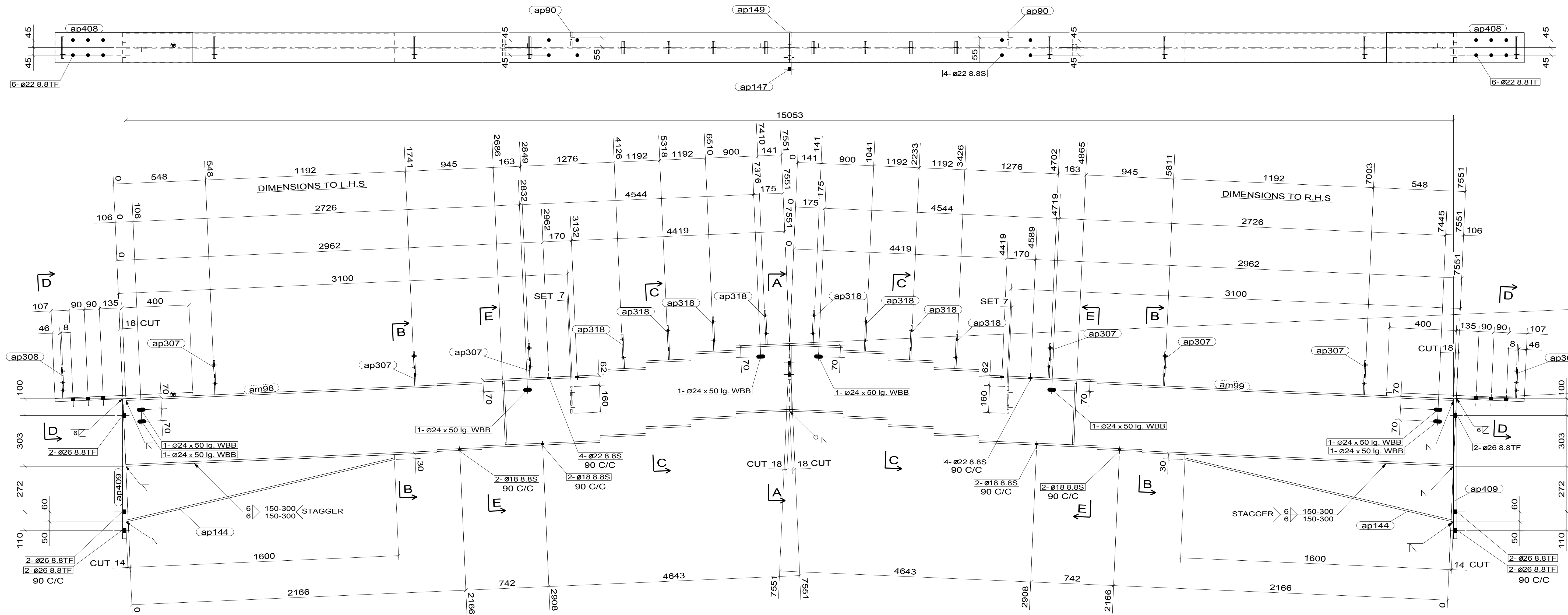
CONSTRUCTION ENGINEERING PTY. LTD.
 WELLINGTON VILLAGE SHOPPING CENTRE

RAFTER

DRAWN: AM	CHECKED: AM	DRAWING No.	REV.
DATE: 18.02.2004	SCALE: 1/10	4107- 1R9	A

ERECTION PLAN REFERENCE:
 4107-MP-02

MATERIAL LIST FOR ONE ASSEMBLY MK				1R6	1	Ass. Req'd.
ITEM	No.Off	SECTION	LENGTH	GRADE	WEIGHT(kg)	AREA(m ²)
am98	1	UB410*54	7551	300PLUS	408.4	11.2
am99	1	UB410*54	7551	300PLUS	408.4	11.2
ap90	2	FLT10*90	160	250	1.1	0.0
ap144	2	UB360*45	1724	250	77.4	2.3
ap147	1	PLT20*160	380	250	8.0	0.1
ap149	1	PLT20*90	380	250	5.3	0.1
ap307	6	FLT8*130	205	250	1.7	0.1
ap308	2	FLT8*130	185	250	1.5	0.1
ap318	8	FLT8*75	205	250	1.0	0.0
ap408	2	FLT20*180	822	250	23.2	0.3
ap409	2	FLT20*180	834	250	23.6	0.3
ap449	4	FLT10*90	380	250	2.7	0.1
TOTAL					1112.4	29.7



1 RAFTER (S) REQUIRED MK 1R6

GENERAL NOTES
 1. WELDS 6 CONT. FILLET (CAT. SP) UNLESS NOTED.
 2. ALL BUTT WELDS TO BE FULL PENETRATION (CAT. SP) UNLESS NOTED.
 3. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 4. NO PAINT IN WAY OF TF BOLT CONNECTIONS.
 5. THIRD ANGLE PROJECTION UNLESS NOTED.
 6. ASSEMBLY MARK TO BE STAMPED ON TOP FACE WHERE INDICATED THUS N S F S

PAINT : G.O.Z.P.
 PRECAMBER : 25mm

No.	DATE	ISSUED FOR APPROVAL	DETAILS	REVISIONS
A	27.02.04	ISSUED FOR APPROVAL		

Ktech Drafting Pty. Ltd.
 A.B.N. 30 105 598 885
 171 DOW ST, PORT MELBOURNE, VICTORIA, AUST. 3207
 PH (03) 9636 3616 MOBILE 0411 566 698
STILCON HOLDINGS PTY. LTD.
 37 LINK COURT BROOKLYN 3025 PH.9314 1611 FAX. 9315 1559

CONSTRUCTION ENGINEERING PTY. LTD.
 WELLINGTON VILLAGE SHOPPING CENTRE

DRAWING No.		REV.
4107- 1R6		A

ERECTOR PLAN REFERENCE: 4107-MP-02

DRAWN: AM CHECKED: AM DATE: 18.02.2004 SCALE: 1/10