



R.L. 145.082m
(Nominal Top of Extension)

R.L. 123.640m
(Nominal Top of Tower)

R.L. 71.335m

R.L. 66.000m
(Proposed RFS 828DA-6
Array Centreline)

R.L. 60.950m

R.L. 00.000m
(K Point)

**TOWER ELEVATION
(WEST FACE)**

(EXISTING ANTENNAS NOT SHOWN FOR CLARITY)

DETAIL 1
/SHEET 2

NOTE FOR MANUFACTURER & INSTALLER:
TRIAL ASSEMBLE PRIOR TO GALVANISING
AND DELIVERY TO SITE TO ENSURE CORRECT
FIT AND NUMBER OF PARTS

GENERAL NOTES:

1. ALL STEEL TO BE HOT DIP GALVANISED TO AS4680 (2008).
BOLTS GALVANISED TO AS1214 (1983).
2. ALL WELDING TO BE CATEGORY SP TO AS1554 (2014).
ALL WELDS TO BE 8mm CFW, U.N.O.
3. ALL HOLLOW SECTIONS TO AS1183 (2009).
4. ALL HOT ROLLED STEEL TO AS3678 (2011) & AS3679.1 (2010), (Grade 300).
5. ALL SPRING WASHERS TO AS1988 (1976).
6. HIGH STRENGTH BOLTS TO AS1252.1 (2016) & AS1252.2 (2016) - (Grade 8.8/S).
7. REMOVE ALL SWARP, BURRS & SHARP EDGES TO ALL FRESHLY CUT, WELDED
OR DRILLED STEEL ON SITE. APPLY TWO COATS OF ZINC RICH PAINT.
8. REFER TO MOP AND SOW FOR ADDITIONAL SITE-SPECIFIC NOTES
AND INSTRUCTIONS, AS APPLICABLE.
9. CONTACT STRUCTEL AND REFER REPORT No. 85881/Z31912/1
FOR FURTHER INFORMATION IF REQUIRED.

- HOLE SYMBOLS**
- 14
 - 18
 - 22
 - 26
 - 32
 - 33

Material
GRADE 300 UNLESS OTHERWISE STATED

Finish
HOT DIP GALVANISE TO A.S. 4680

All BOLTS TO A.S. 1111 (GRADE 4.8/S) U.N.O.

Welding
STRUCTURAL WELD (SP)
TO A.S. 1554 SEAL WELD ALL CONTACTING FACES

DRAWING PRACTICE TO A.S. 1100

TOLERANCES:
UNLESS OTHERWISE STATED

1. LINEAR & HOLES C/C ± 1
2. OVERALL LENGTH ± 1.5
3. HOLE DIAMETER $+0.5$
0
4. ANGULAR $\pm 30'$

STRUCTEL PTY. LTD.

ISSUE No. *14/3/17*

DESIGNED BY *DW/308*

APPROVED BY *[Signature]*

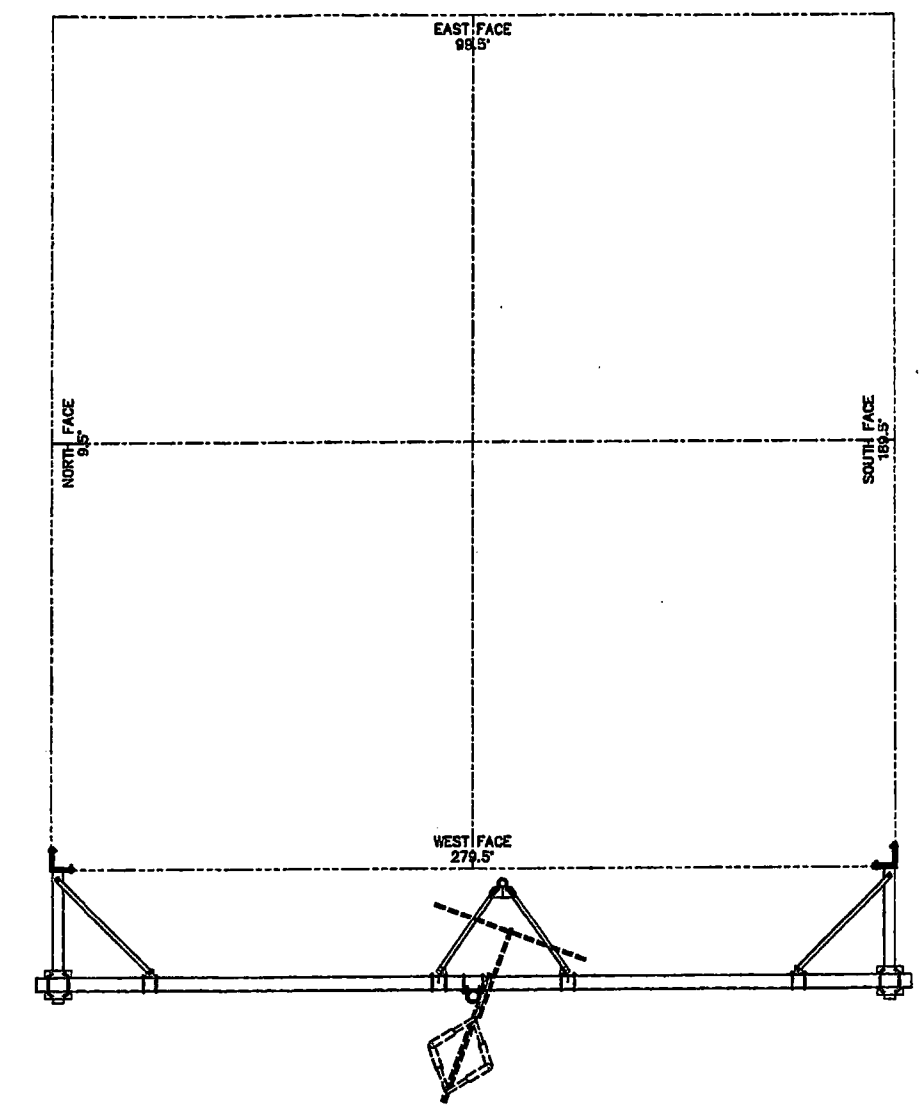
DATE *14/3/17*

JOB No.	DRAWN	CHKD	AMENDMENT	DESG.	APPR.	DATE	ISS.
Z31912	MV	BWC		BWC	HQ	03.03.17	1

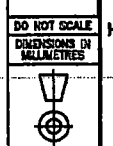
Structel

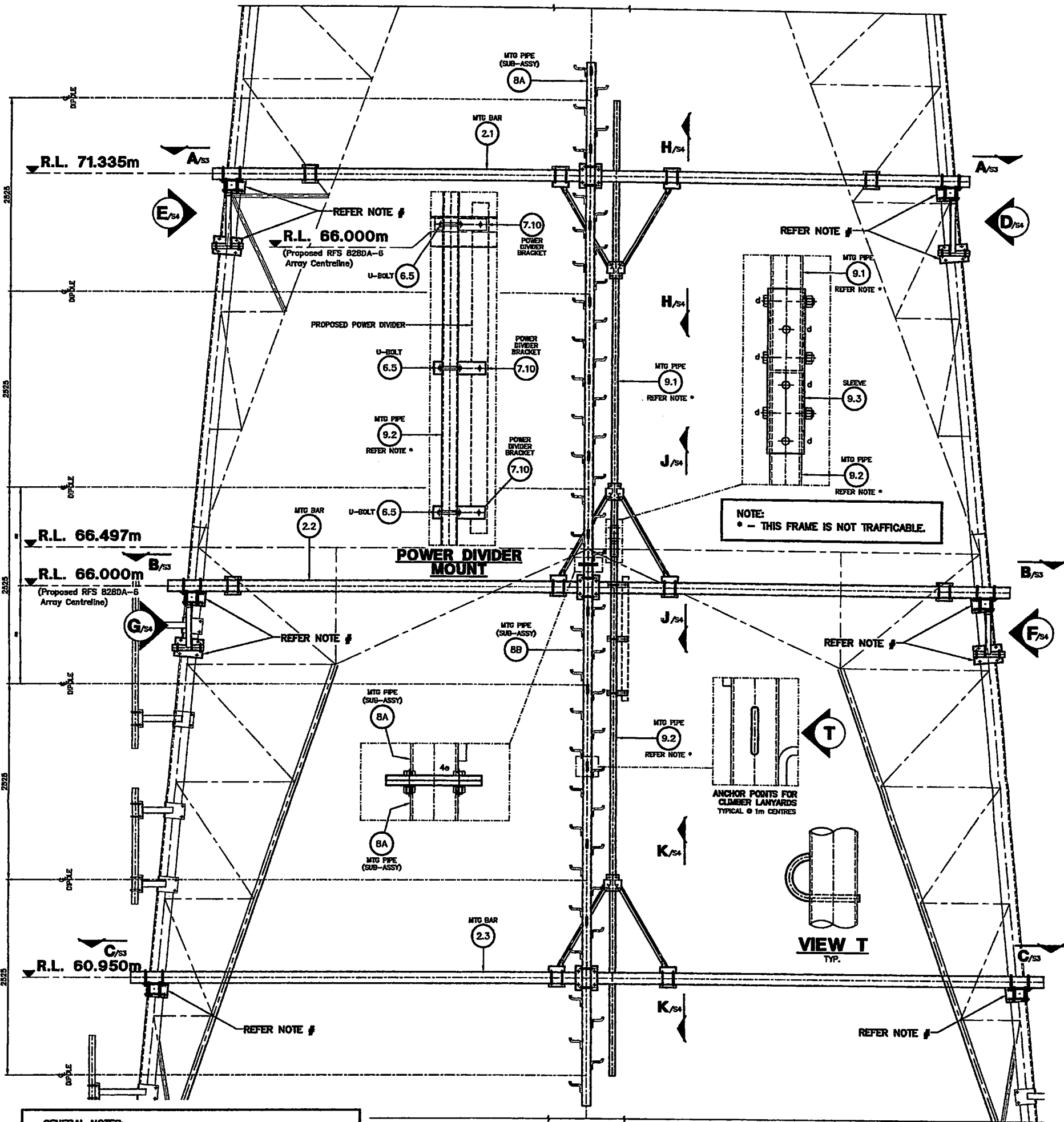
CHANNEL 7 BICKLEY (WA)
144.78m TV TOWER
RFS 828DA-6 ARRAY @ RL 66m
GENERAL ARRANGEMENT
STD-4812

SHEET
OF 1



PROPOSED RFS 828DA-6 ARRAY @ RL 66m





- GENERAL NOTES:**
1. ALL STEEL TO BE HOT DIP GALVANISED TO A4680 (2006). BOLTS GALVANISED TO A51214 (1983).
 2. ALL WELDING TO BE CATEGORY SP TO A51554 (2014). ALL WELDS TO BE 5mm CFW, U.N.O.
 3. ALL HOLLOW SECTIONS TO A5163 (2009).
 4. ALL HOT ROLLED STEEL TO A53678 (2011) & A53678.1 (2010), (Grade 300).
 5. ALL SPRING WASHERS TO A51808 (1976).
 6. HIGH STRENGTH BOLTS TO A51554.1 (2014) & A51554.2 (2016) - (Grade B.8/S).
 7. REMOVE ALL SHARP EDGES & SHARP POINTS TO ALL FRESHLY CUT, WELDED OR DRILLED STEEL ON SITE. APPLY TWO COATS OF ZINC RICH PAINT.
 8. REFER TO MOP AND SOW FOR ADDITIONAL SITE-SPECIFIC NOTES AND INSTRUCTIONS, AS APPLICABLE.
 9. CONTACT STRUCTEL AND REFER REPORT No. 85681/Z31912/1 FOR FURTHER INFORMATION IF REQUIRED.

DETAIL 2 / SHEET 1
PART TOWER ELEVATION
PROPOSED RFS ARRAY ON WEST FACE @ RL 66m

NOTE:
 # - ENSURE NO PAINT BEHIND ATTACHMENT POINTS OF ALL STEELWORK TO LEGS.

NOTE FOR MANUFACTURER & INSTALLER:
 TRIAL ASSEMBLY PRIOR TO GALVANISING AND DELIVERY TO SITE TO ENSURE CORRECT FIT AND NUMBER OF PARTS

PARTS LIST

PART No.	DESCRIPTION	No. OFF	PART No.	DESCRIPTION	No. OFF	PART No.	DESCRIPTION	No. OFF
a	M20 (x 180 Long) HEX HEAD BOLT, (Grade B.8/S) c/w NUT & SPRING WASHER	24	5D	SEE DETAIL - LEG BRACKET (SUB-ASSEMBLY)	1	6.8	SEE DETAIL - #20 V-BOLT (TO FIT 150 SHS)	18
			5E	SEE DETAIL - LEG BRACKET (SUB-ASSEMBLY)	1	6.9	SEE DETAIL - #20 V-BOLT (TO FIT 203 EA)	8
b	M20 (x 70 Long) HEX HEAD BOLT, (Grade B.8/S) c/w NUT & SPRING WASHER	24	5F	SEE DETAIL - LEG BRACKET (SUB-ASSEMBLY)	1			
			5.1	SEE DETAIL - INTERNAL PLATE	6	7.1	SEE DETAIL - BRACE	1
c	M16 (x 160 Long) HEX HEAD BOLT, (Grade B.8/S) c/w NUT & SPRING WASHER	4	5.2	SEE DETAIL - FIXING PLATE	6	7.2	SEE DETAIL - BRACE	1
			5.3	SEE DETAIL - FIXING PLATE	3	7.3	SEE DETAIL - BRACE	1
d	M16 (x 120 Long) HEX HEAD BOLT, (Grade B.8/S) c/w NUT & SPRING WASHER	6	5.4	SEE DETAIL - BRACE PLATE	4	7.4	SEE DETAIL - BRACE	1
			5.5	SEE DETAIL - BRACE PLATE	4	7.5	SEE DETAIL - BRACE	2
e	M16 (x 45 Long) HEX HEAD BOLT, (Grade B.8/S) c/w NUT & SPRING WASHER	68	5.6	SEE DETAIL - BACKING PLATE	2	7.6	SEE DETAIL - BRACE	2
			5.7	SEE DETAIL - FIXING PLATE	4	7.7	SEE DETAIL - BRACE	6
			5.8	SEE DETAIL - BRACE CONNECTION	4	7.8	SEE DETAIL - BRACE	3
2.1	150 x 5.0 SHS (x 9700 Long) MOUNTING BAR (Grade C350LD)	1				7.9	SEE DETAIL - BRACE	3
2.2	150 x 5.0 SHS (x 10600 Long) MOUNTING BAR (Grade C350LD)	1	6.1	SEE DETAIL - BRACE BRACKET	3	7.10	SEE DETAIL - POWER DIVIDER PLATE	3
2.3	150 x 5.0 SHS (x 11700 Long) MOUNTING BAR (Grade C350LD)	1	6.2	SEE DETAIL - BRACE BRACKET	3			
			6.3	SEE DETAIL - BRACE BRACKET	3	8A	SEE DETAIL - MOUNTING PIPE (SUB-ASSEMBLY)	1
5A	SEE DETAIL - LEG BRACKET (SUB-ASSEMBLY)	1	6.4	SEE DETAIL - BRACE BRACKET	3	8B	SEE DETAIL - MOUNTING PIPE (SUB-ASSEMBLY)	1
5B	SEE DETAIL - LEG BRACKET (SUB-ASSEMBLY)	1	6.5	SEE DETAIL - #16 U-BOLT (TO FIT #76.1 PIPE)	23			
5C	SEE DETAIL - LEG BRACKET (SUB-ASSEMBLY)	1	6.6	SEE DETAIL - #20 U-BOLT (TO FIT #114.3 PIPE)	6	9.1	SEE DETAIL - MOUNTING PIPE	1
			6.7	SEE DETAIL - #16 U-BOLT (TO FIT 150 SHS)	20	9.2	SEE DETAIL - MOUNTING PIPE	1
						9.3	SEE DETAIL - SLEEVE	1

© STRUCTEL PTY. LTD. A/CN 084 274 032.
 NO PART OF THIS WORK MAY BE PRODUCED OR COPIED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF STRUCTEL PTY. LTD. SUCH REPRODUCTION OR COPIING FOR ANY PURPOSES AS ARE AUTHORIZED BY STRUCTEL PTY. LTD. SHALL BE AT THE USER'S RISK.
 TELEPHONE No. (03) 9833 1300 FAX No. (03) 9834 9444

HOLE SIZES
 1. 14
 2. 16
 3. 18
 4. 20
 5. 22
 6. 24
 7. 26
 8. 28
 9. 30
 10. 32
 11. 36
 12. 40
 13. 44
 14. 48
 15. 52
 16. 56
 17. 60
 18. 64
 19. 68
 20. 72
 21. 76
 22. 80
 23. 84
 24. 88
 25. 92
 26. 96
 27. 100
 28. 104
 29. 108
 30. 112
 31. 116
 32. 120
 33. 124
 34. 128
 35. 132
 36. 136
 37. 140
 38. 144
 39. 148
 40. 152
 41. 156
 42. 160
 43. 164
 44. 168
 45. 172
 46. 176
 47. 180
 48. 184
 49. 188
 50. 192
 51. 196
 52. 200
 53. 204
 54. 208
 55. 212
 56. 216
 57. 220
 58. 224
 59. 228
 60. 232
 61. 236
 62. 240
 63. 244
 64. 248
 65. 252
 66. 256
 67. 260
 68. 264
 69. 268
 70. 272
 71. 276
 72. 280
 73. 284
 74. 288
 75. 292
 76. 296
 77. 300
 78. 304
 79. 308
 80. 312
 81. 316
 82. 320
 83. 324
 84. 328
 85. 332
 86. 336
 87. 340
 88. 344
 89. 348
 90. 352
 91. 356
 92. 360
 93. 364
 94. 368
 95. 372
 96. 376
 97. 380
 98. 384
 99. 388
 100. 392
 101. 396
 102. 400
 103. 404
 104. 408
 105. 412
 106. 416
 107. 420
 108. 424
 109. 428
 110. 432
 111. 436
 112. 440
 113. 444
 114. 448
 115. 452
 116. 456
 117. 460
 118. 464
 119. 468
 120. 472
 121. 476
 122. 480
 123. 484
 124. 488
 125. 492
 126. 496
 127. 500
 128. 504
 129. 508
 130. 512
 131. 516
 132. 520
 133. 524
 134. 528
 135. 532
 136. 536
 137. 540
 138. 544
 139. 548
 140. 552
 141. 556
 142. 560
 143. 564
 144. 568
 145. 572
 146. 576
 147. 580
 148. 584
 149. 588
 150. 592
 151. 596
 152. 600
 153. 604
 154. 608
 155. 612
 156. 616
 157. 620
 158. 624
 159. 628
 160. 632
 161. 636
 162. 640
 163. 644
 164. 648
 165. 652
 166. 656
 167. 660
 168. 664
 169. 668
 170. 672
 171. 676
 172. 680
 173. 684
 174. 688
 175. 692
 176. 696
 177. 700
 178. 704
 179. 708
 180. 712
 181. 716
 182. 720
 183. 724
 184. 728
 185. 732
 186. 736
 187. 740
 188. 744
 189. 748
 190. 752
 191. 756
 192. 760
 193. 764
 194. 768
 195. 772
 196. 776
 197. 780
 198. 784
 199. 788
 200. 792
 201. 796
 202. 800
 203. 804
 204. 808
 205. 812
 206. 816
 207. 820
 208. 824
 209. 828
 210. 832
 211. 836
 212. 840
 213. 844
 214. 848
 215. 852
 216. 856
 217. 860
 218. 864
 219. 868
 220. 872
 221. 876
 222. 880
 223. 884
 224. 888
 225. 892
 226. 896
 227. 900
 228. 904
 229. 908
 230. 912
 231. 916
 232. 920
 233. 924
 234. 928
 235. 932
 236. 936
 237. 940
 238. 944
 239. 948
 240. 952
 241. 956
 242. 960
 243. 964
 244. 968
 245. 972
 246. 976
 247. 980
 248. 984
 249. 988
 250. 992
 251. 996
 252. 1000

REVISIONS
 1. LAYOUT & DIMENSIONS
 2. OVERALL LENGTH
 3. HOLE DIMENSIONS
 4. ANCHOR & 30°

STRUCTEL PTY. LTD.
 144.78m TV TOWER
 RFS 828DA-6 ARRAY @ RL 66m
 GENERAL ARRANGEMENT & DETAIL 1
 STD-4812

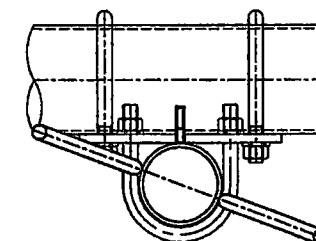
- GENERAL NOTES:**
1. ALL STEEL TO BE HOT DIP GALVANISED TO AS4680 (2006). BOLTS GALVANISED TO AS1214 (1983).
 2. ALL WELDING TO BE CATEGORY SP TO AS1554 (2014). ALL WELDS TO BE 8mm CFW, U.N.O.
 3. ALL HOLLOW SECTIONS TO AS1163 (2009).
 4. ALL HOT ROLLED STEEL TO AS3678 (2011) & AS3678.1 (2010), (Grade 300).
 5. ALL SPRING WASHERS TO AS1988 (1978).
 6. HIGH STRENGTH BOLTS TO AS1252.1 (2016) & AS1252.2 (2016) - (Grade 8.8/S).
 7. REMOVE ALL SWarf, BURRS & SHARP EDGES TO ALL FRESHLY CUT, WELDED OR DRILLED STEEL ON SITE. APPLY TWO COATS OF ZINC RICH PAINT.
 8. REFER TO MOP AND SOW FOR ADDITIONAL SITE-SPECIFIC NOTES AND INSTRUCTIONS, AS APPLICABLE.
 9. CONTACT STRUCTEL AND REFER REPORT No. 65681/231012/1 FOR FURTHER INFORMATION IF REQUIRED.

NOTE FOR MANUFACTURER & INSTALLER:
TRIAL ASSEMBLE PRIOR TO GALVANISING
AND DELIVERY TO SITE TO ENSURE CORRECT
FIT AND NUMBER OF PARTS

SECTION A - A
(AS DRAWN)

SECTION B - B
(AS DRAWN)

SECTION C - C
(AS DRAWN)



LADDER ALIGNMENT

DO NOT SCALE
DIMENSIONS IN
MILLIMETRES

© STRUCTEL PTY. LTD. ACN 064 274 835.
NO PART OF THIS WORK MAY BE PRODUCED OR COPIED IN
ANY FORM BY ANY MEANS WITHOUT THE PRIOR WRITTEN
PERMISSION OF STRUCTEL PTY. LTD.
THE WORK MAY ONLY BE USED FOR SUCH PURPOSES AS ARE
AUTHORISED BY STRUCTEL PTY. LTD.
TELEPHONE No. (03) 9833 1300 FAX No. (03) 9854 8448.

HOLE SYMBOLS
14
18
22
26
32
33

Materials:
GRADE 300 UNLESS OTHERWISE STATED
FINISH:
HOT DIP GALVANISE TO A.S. 4680
ALL BOLTS TO A.S. 1111 (GRADE 4.8/S) U.N.O.
Welding:
STRUCTURAL WELD (SP)
TO A.S. 1554 SEAL WELD ALL CONTACTING FACES
DRAWING PRACTICE TO A.S. 1100

TOLERANCES:
UNLESS OTHERWISE STATED
1. LINEAR & HOLES C/O ± 1
2. OVERALL LENGTH ± 1.5
3. HOLE DIAMETER ± 0.5
4. ANGULAR $\pm 30'$

STRUCTEL PTY. LTD.
ISSUE No. 231012
DESIGNED BY MV
APPROVED BY BWC
DATE 14/3/17

200 No. DRAWN QRD
231012 MV BWC
AMENDMENT
REV. APPD. DATE
BWC HQ 23.03.17 1

Structel
CHANNEL 7 BICKLEY (WA)
144.78m TV TOWER
RFS 828DA-6 ARRAY @ RL 68m
GENERAL ARRANGEMENT & SECTIONS
STD-4812
Sheet 3 of 11 (Rev)