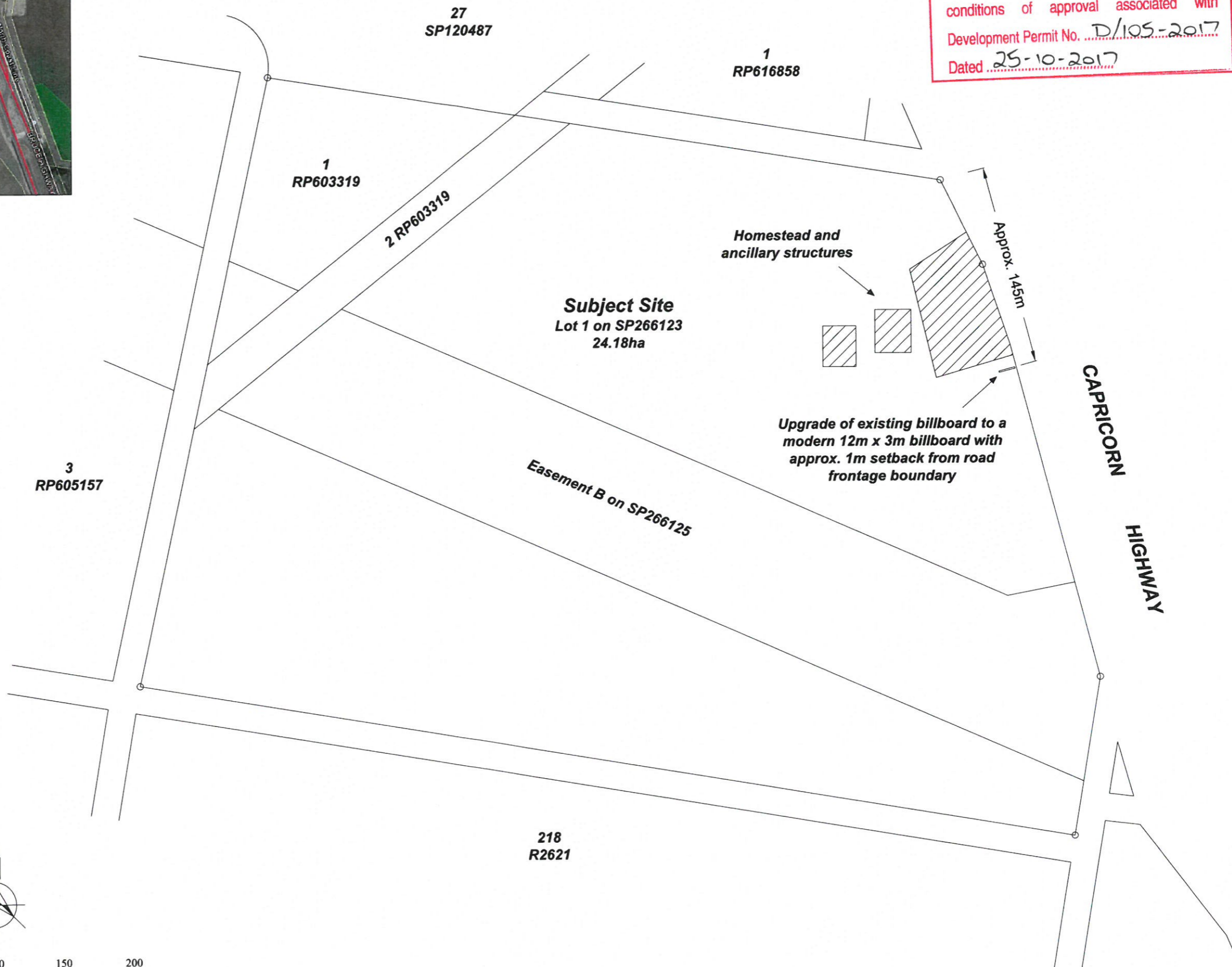



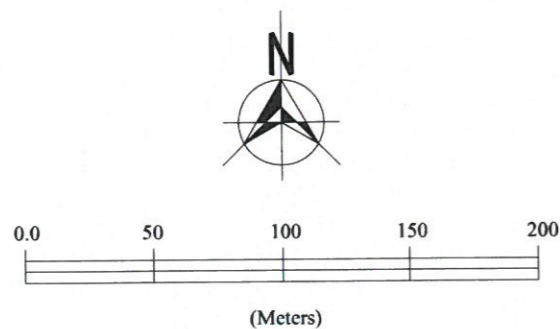


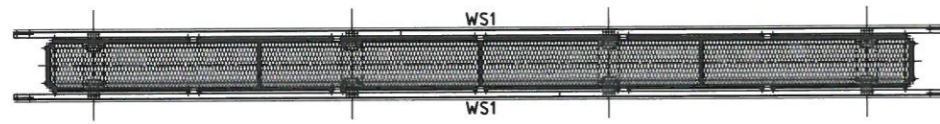
Aerial Photo  
Not to scale

ROCKHAMPTON REGIONAL COUNCIL  
These plans are approved subject to the current  
conditions of approval associated with  
Development Permit No. D/105-2017  
Dated 25-10-2017

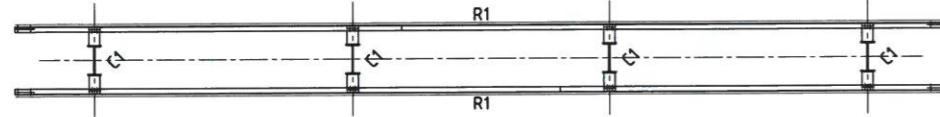


REV	DESCRIPTION	BY	DATE
A	DA ISSUE	BNC	28.09.17
ORIGINAL SHEET SIZE: A3 - 297mm x 420 mm			
DRAWING STATUS:			
DA ISSUE			
CONSULTANTS:			
			
BNC PLANNING PTY LTD 19 INGHAM ROAD, WEST END QLD 4812 PO BOX 5493, TOWNSVILLE QLD 4810 PH: 4724 4551 M: 083739612 E: ENQUIRE@BNCPLANNING.COM.AU WEB: BNCPLANNING.COM.AU			
COPYRIGHT - REPRODUCTION OF THESE DRAWINGS IN WHOLE OR PART IS STRICTLY FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF PAYNTER DIXON QLD. USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE. ALL DIMENSIONS TO BE CONFIRMED ON SITE.			
CLIENT: PARADISE OUTDOOR ADVERTISING			
PROJECT: CAPRICORN HIGHWAY SUPERSITE BILLBOARD			
TITLE: SITE PLAN			
Date: 28 September 2017	Drawn: BNC		
Scale (A3): As shown	Checked:		
Job No.: ROAD210817	Approved:		
BNC Ref. No.: RRC-001	Drawing No.: S01-01	Revision: A	

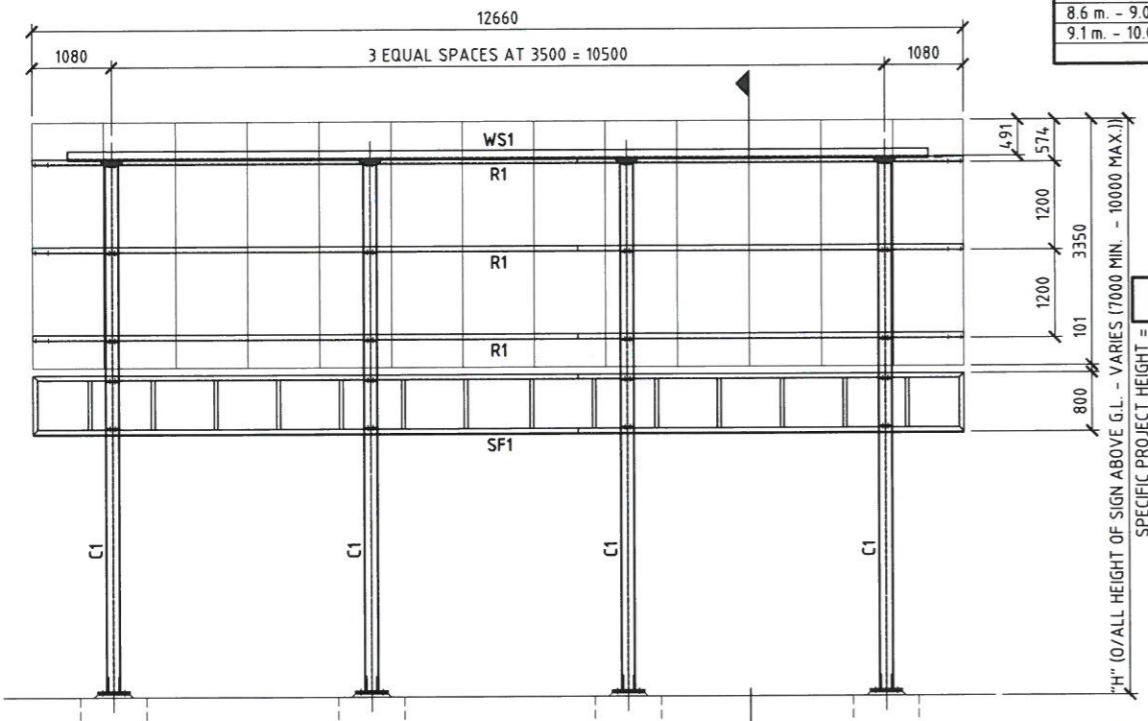




WALKWAY STRUCTURAL FRAMING PLAN  
SCALE 150 @ A1



STRUCTURAL FRAMING PLAN  
SCALE 150 @ A1



STRUCTURAL FRAMING ELEVATION  
SCALE 150 @ A1

#### LEGEND

- DENOTES EXPANDED METAL FLOORING. "GRIDMESH" GR50080 / WK4514 (BLACK FINISH). SUPPLIED IN SHEETS OF 3000 SWM x 600 LWM. WELD EVERY FOURTH STRAND TO EACH SUPPORT.
- DENOTES ADJUSTABLE GUARDRAILING. (900 HIGH IN RAISED POSITION)  
40 N.B. (48.3 O.D. x 3.2) MED. GAUGE STANCHIONS / POSTS AT 1800 CTS MAX.  
25 N.B. (33.7 O.D. x 3.2) MED. GAUGE HANDRAIL.  
25 N.B. (33.7 O.D. x 3.2) MED. GAUGE KNEERAIL.

#### MEMBER SCHEDULE

MARK	SIZE	DESCRIPTION
C1	(REFER TO COLUMN & BASE PLATE SCHEDULE)	COLUMN
R1	75 x 75 x 6 EA	RAIL
SF1	65 x 65 x 5 EA TOP & BOT. WITH 50 x 50 x 3 EA VERTICALS AT 850 CTS MAX.	SKIRT FRAME (FULLY WELDED)
WS1	125 x 75 x 6 UA (LONG LEG VERTICAL)	WALKWAY STRINGER

#### COLUMN & BASE PLATE SCHEDULE

"H" O/ALL HEIGHT	"C1" COLUMN SIZE	BASE PLATE THICKNESS	H.D. BOLT REQUIREMENTS	BASE PLATE HOLE Ø
7.0 m. - 7.5 m.	360 UB 50.7	32 PL. (WITH GUSSETS)	6/M30 4.6/S	36
7.6 m. - 8.5 m.	410 UB 53.7	32 PL. (WITH GUSSETS)	6/M36 4.6/S	42
8.6 m. - 9.0 m.	410 UB 59.7	32 PL. (WITH GUSSETS)	6/M36 4.6/S	42
9.1 m. - 10.0 m.	460 UB 67.1	32 PL. (WITH GUSSETS)	6/M36 4.6/S	42

#### ROCKHAMPTON REGIONAL COUNCIL

These plans are approved subject to the current conditions of approval associated with Development Permit No. D/105-2017  
Dated 25-10-2017

#### GENERAL NOTES

- G1. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A. CODES (INCLUDING ALL AMENDMENTS) AND THE STATUTORY AUTHORITIES' REQUIREMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- G2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METRES.

#### FOOTING NOTES

- F1. AN ALLOWABLE BEARING PRESSURE OF 100 kPa HAS BEEN ASSUMED IN THE DESIGN OF FOOTINGS.
- F2. ALL FOOTING EXCAVATIONS SHALL BE CLEANED OF LOOSE MATERIAL AND WATER.
- F3. BORED PIERS SHALL BE CAST THE SAME DAY THAT BORING TAKES PLACE.
- F4. COLUMNS SHALL BE CONCENTRIC WITH SUPPORTING FOOTINGS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

#### CONCRETE NOTES

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
- C2. CONCRETE STRENGTH GRADE FOR PARTICULAR ELEMENTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- | ELEMENT  | CONCRETE STRENGTH GRADE |
|--|-------------------------|
| BORED PIERS & FOOTINGS (TO ALL QR RAIL CORRIDOR LOCATIONS) | N40                     |
| BORED PIERS & FOOTINGS (TO ALL OTHER LOCATIONS u.n.o.)     | N32                     |
- C3. MAX. AGGREGATE SIZE = 20mm  
SLUMP = 80mm +/- 15mm (AT POINT OF DISCHARGE)
- C4. THE CONTRACTOR IS TO NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF ANY ADMIXTURES TO BE USED IN THE CONCRETE MIX. NO ADMIXTURES SHALL BE USED WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER. CALCIUM CHLORIDE WILL NOT BE PERMITTED AND SHALL NOT BE USED IN ANY CIRCUMSTANCE.
- C5. MINIMUM COVER TO ALL REINFORCEMENT UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:

ELEMENT	FORMED NOT EXPOSED TO WEATHER	FORMED EXPOSED TO GROUND, WATER OR WEATHER	NOT FORMED CAST AGAINST GROUND ETC.
FOOTINGS	--	75	75

#### REINFORCEMENT SYMBOLS:-

- R- STRUCTURAL GRADE PLAIN ROUND BAR GRADE 250R TO AS1302.
- N - DEFORMED BAR GRADE D500 TO AS/NZS4671.
- THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMETER IN MILLIMETRES.
- C7. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- C8. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN.
- C9. REINFORCEMENT SHALL BE BENT COLD IN ACCORDANCE WITH AS3600 EXCEPT WHERE APPROVED BY THE STRUCTURAL ENGINEER. NO REBENDING SHALL BE PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

#### STRUCTURAL STEELWORK NOTES

- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100.
- S2. ALL WELDS 6mm C.F.W. ALL ROUND, UNLESS NOTED OTHERWISE.
- S3. WELDING SHALL BE PERFORMED BY A QUALIFIED WELDER IN ACCORDANCE WITH AS 1554 PART 1.
- S4. S.P. (SPECIAL PURPOSE) CATEGORY WELDS SHALL BE USED FOR WELDING OF ALL STRUCTURAL STEELWORK.
- S5. ALL BOLTS TO BE M20 UNLESS NOTED OTHERWISE. ALL BOLTS TO BE GRADE 8.8/S UNLESS NOTED OTHERWISE.
- S6. BOLT TYPES (AND DESIGNATIONS, WHERE USED) SHALL BE AS FOLLOWS:
- 4.6/S - COMMERCIAL GRADE BOLTS TO AS 1111 AND AS 1112, SNUG TIGHTENED.
- 8.8/S - HIGH STRENGTH STRUCTURAL BOLTS, NUTS AND HARDENED WASHERS TO AS 1252, SNUG TIGHTENED ONLY.
- S7. ALL BOLTS, NUTS AND WASHERS INCLUDING H.D. BOLTS / REO ARE TO BE HOT DIP GALVANISED. ALL GALVANISED COMPONENTS TO BE CAST INTO CONCRETE MUST BE PASSIVATED.
- S8. ALL STEELWORK SHALL BE ABRASIVE BLAST CLEANED TO CLASS 2.5 OR BETTER, AND HOT DIP GALVANISED.
- S9. THE ENDS OF ALL TUBULAR MEMBERS ARE TO BE SEALED WITH 6mm THICK PLATES AND CONTINUOUS SEAL WELDS, UNLESS DETAILLED OTHERWISE.
- S10. ALL HOLES IN PLATES AND STEEL MEMBERS SHALL BE DRILLED.

#### ABBREVIATIONS

RL	REDUCED LEVEL
U/S	UNDERSIDE
U.N.O.	UNLESS NOTED OTHERWISE
H.D. BOLT	HOLDING DOWN BOLT
C.F.W.	CONTINUOUS FILLET WELD
C.P.B.W.	COMPLETE PENETRATION (FULL STRENGTH) BUTT WELD OR F.S.B.W.
E.W.	EACH WAY
E.F.	EACH FACE
MAX.	MAXIMUM
MIN.	MINIMUM
TOP	TOP FACE
BOT.	BOTTOM FACE
CTS	CENTRES (SPACING)
TYP.	TYPICAL

#### DESIGN PARAMETERS

##### WIND LOADING

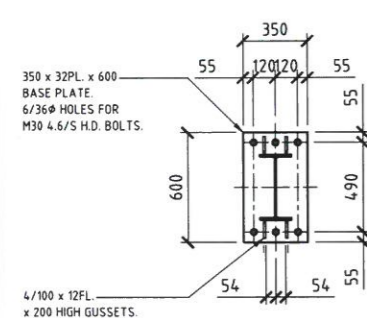
WIND LOADING HAS BEEN DETERMINED IN ACCORDANCE WITH AS 1170 PART 2 WIND FORCES.

REGION C - BASIC REGIONAL WIND VELOCITY ( $V_{90}$ ) = 70 m/s.

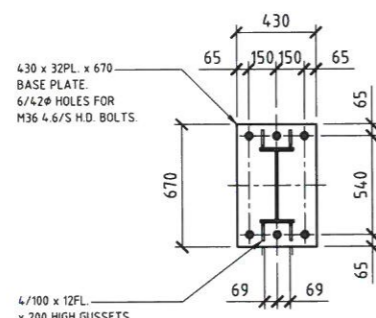
TERRAIN CATEGORY 2,  $M_s = 1.0$ ,  $M_f = 1.0$ ,  $M_d = 0.95$

OVERALL HEIGHT OF SIGN "H"	$V_{90}$	$C_p, n$
7.0 m.	61.6 m/s.	1.38
8.0 m.	63.5 m/s.	1.41
8.50 m.	63.8 m/s.	1.42
9.0 m.	64.1 m/s.	1.43
10.0 m.	64.8 m/s.	1.45

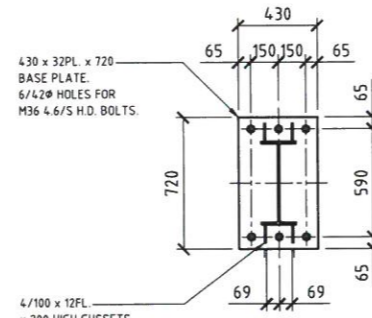
WIND SPEED VALUES ( $V_{90}$ ) ARE BASED ON AN ANNUAL PROBABILITY EXCEEDANCE OF 1 IN 500, WHICH EXCEEDS THE QR REQUIREMENT FOR THE DESIGN TO BE BASED ON AN AVERAGE RECURRENCE INTERVAL (ARI) OF 100 YEARS.



360 UB BASE PLATE DETAIL



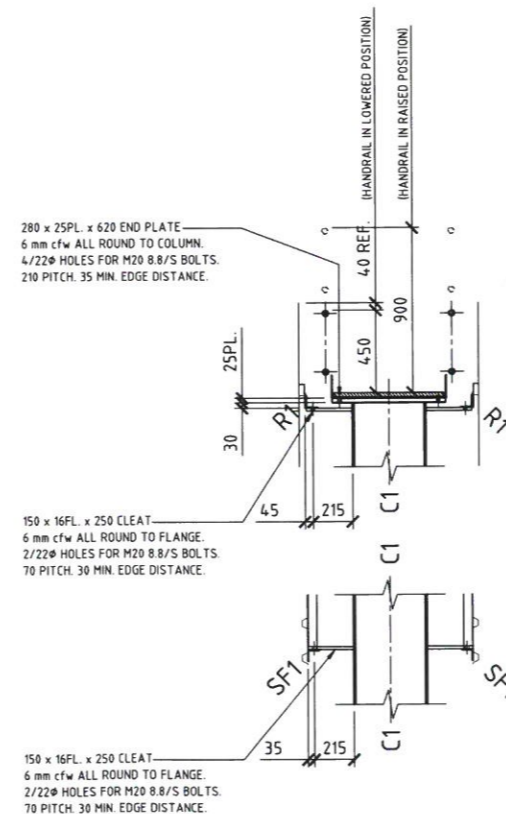
410 UB BASE PLATE DETAIL



460 UB BASE PLATE DETAIL

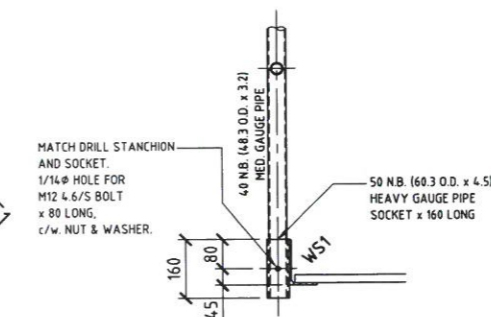
#### TYPICAL BASE PLATE DETAILS

C.P.B.W. COLUMN FLANGES TO BASE PLATE, AND 6mm cfw TO BOTH SIDES OF COLUMN WEB & GUSSETS. TYPICAL.  
SCALE 120 @ A1



STRUCTURAL FRAMING CONNECTION DETAILS

SCALE 120 @ A1



GUARDRAIL STANCHION CONNECTION DETAIL

SCALE 1:10 @ A1

SITE No:- .....  
LOCATION:- .....  
.....

				DARREN LEWIS DESIGNS A.B.N. 42 571 276 678 4 Merlot Mews, Condon, QLD, 4815. Phone. (07) 4723 2941 Fax (07) 4723 2941 Email darren_lewis_designs@yahoo.com.au		CLIENT PARADISE OUTDOOR ADVERTISING		DRAWN D. LEWIS DATE NOV. '09 DESIGNED S. MCKENZIE DATE NOV. '09 CHECKED DATE APPROVED DATE		TITLE STANDARD STRUCTURAL ENGINEERING DRAWINGS STRUCTURAL FRAMING ARRANGEMENT, DETAILS, SCHEDULES, AND NOTES		JOB No POA-STD08	
1 13/12/10 NOTES REVISED TO SUIT QR REQUIREMENTS D.L.				DO NOT SCALE DIMENSIONS IN MILLIMETRES		PROJECT STANDARD 4-POST SUPER SITE DOUBLE-SIDED SIGN		SCALE AS SHOWN				DRAWING No POA-STD08-S01	
0 21/11/09 APPROVED FOR CONSTRUCTION D.L.				DRAFTING STANDARD AS 1100									
REV.	DATE	DESCRIPTION	INITIAL	REFERENCE DRAWING No	REFERENCE DRAWING TITLE								

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