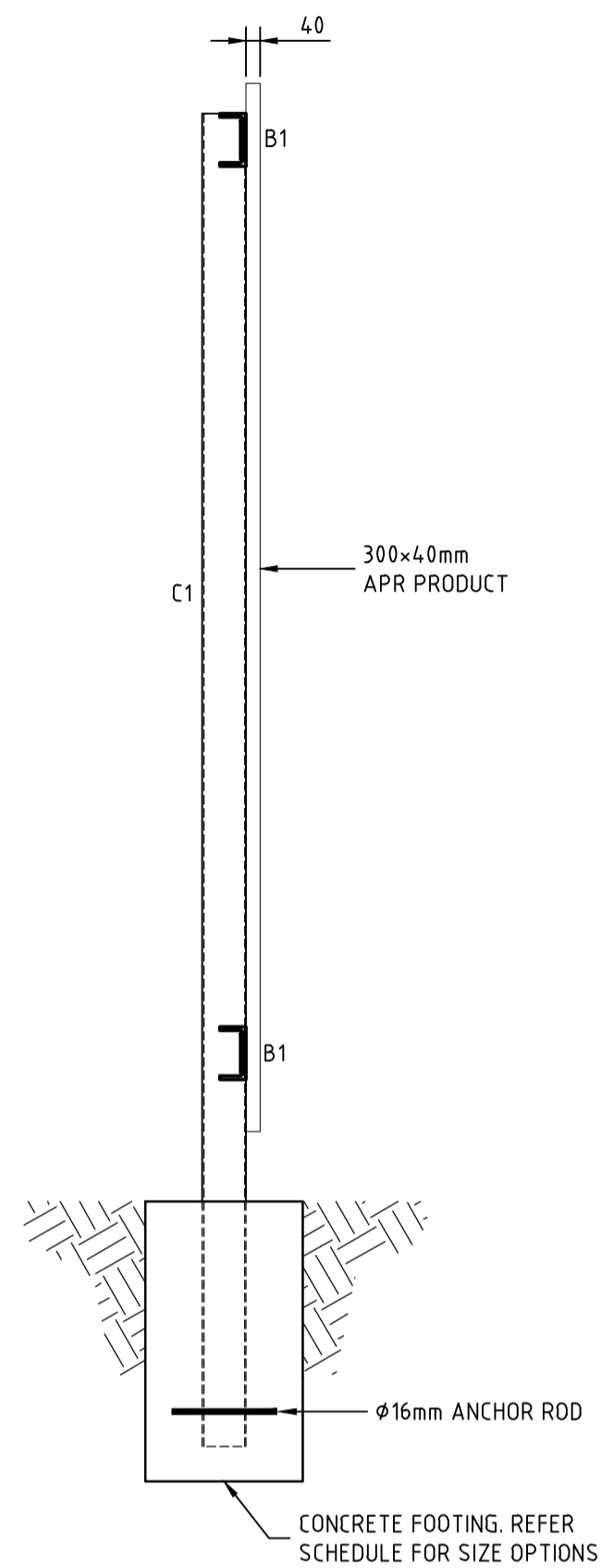
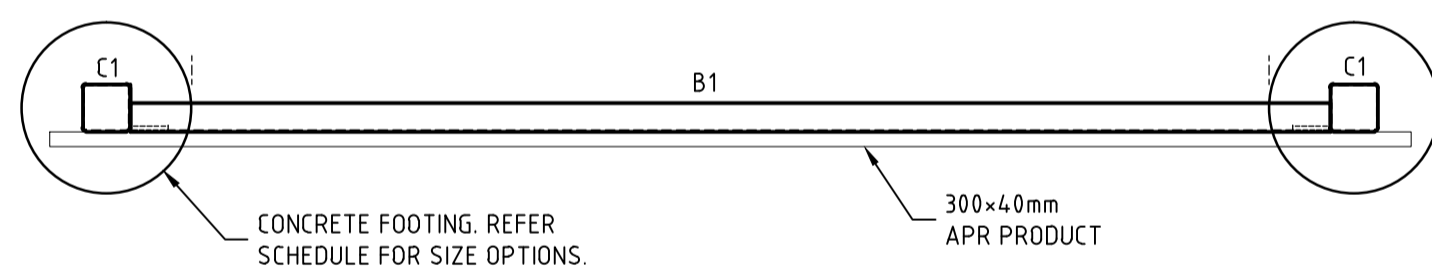


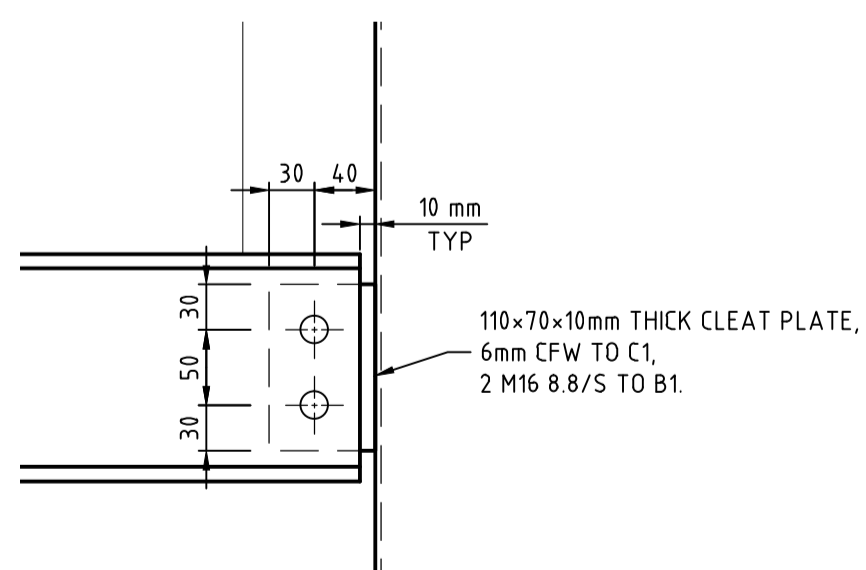
**FRONT ELEVATION**  
SCALE 1:50



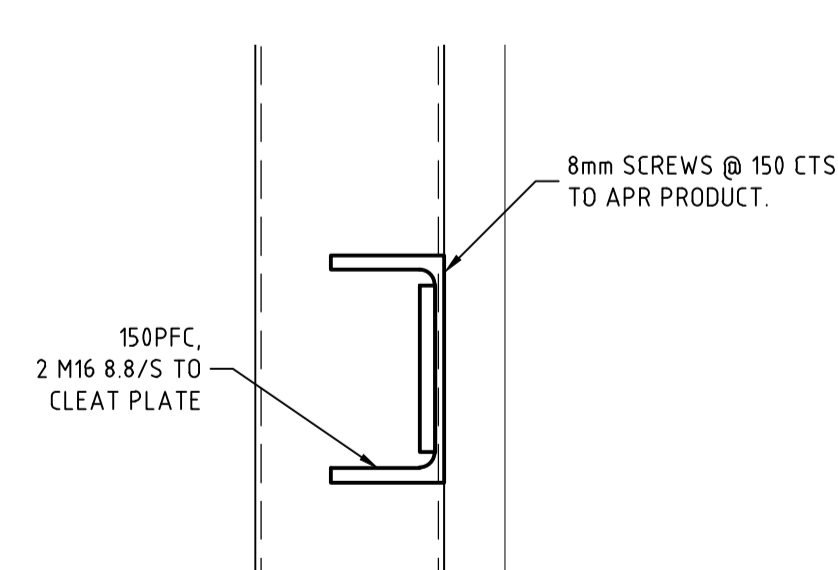
**SECTION A-A**  
SCALE 1:50



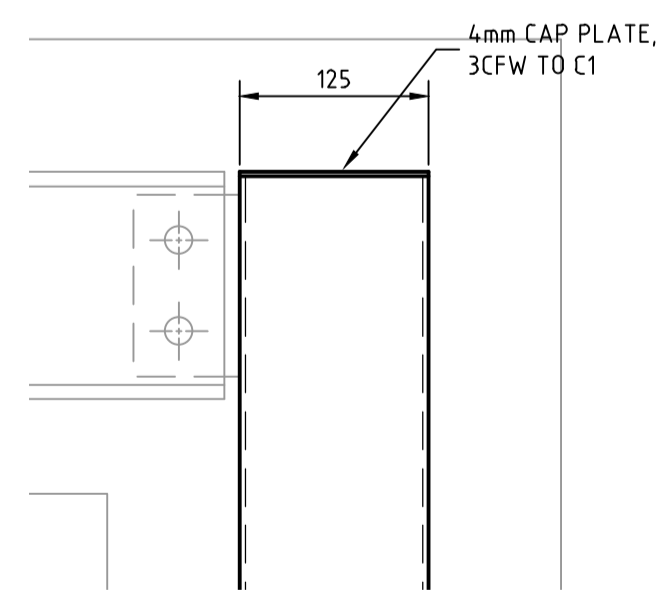
**SECTION B-B**  
SCALE 1:50



**TYPICAL CONNECTION DETAIL 1**  
SCALE 1:50



**TYPICAL CONNECTION DETAIL 2**  
SCALE 1:50



**TYPICAL CAP PLATE DETAIL**  
SCALE 1:50

MEMBER SCHEDULE	
MEMBER	SIZE
B1	150 PFC
C1	125x4.0 SHS

FOOTING SCHEDULE		
WIND CATEGORY	DIAMETER 'W'	DEPTH 'D'
CATEGORY 1 (FOR USE IN COASTAL AREAS)	Ø300	1.0
	Ø450	0.8
	Ø600	0.7
CATEGORY 2.5 (FOR USE IN INLAND AREAS)	Ø300	0.65
	Ø450	0.5
	Ø600	0.45

**NOTES**

**GENERAL NOTES:**

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE REFERRED TO THE QUALITY MANAGER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION ARE COMMENCED.
- THE ENGINEER'S DRAWINGS SHALL NOT BE SCALED.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART IS OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT SAA CODES INCLUDING ALL AMENDMENTS AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- THE DESIGN WIND CRITERIA TO AS 1170.2-2002 IS AS FOLLOWS:
 

REGION	A
BASIC WIND SPEED	V100 40.6m/s
WIND CATEGORY	1.0 35.7m/s
TOPOGRAPHIC MULTIPLIER	Mt = 1.0
SHIELDING MULTIPLIER	Ms = 1.0
- DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS SHOWN OTHERWISE.
- SITE SURVEYING AND SETTING OUT SHALL BE CARRIED OUT BY A REGISTERED SURVEYOR.
- THESE DRAWINGS DO NOT DETAIL TEMPORARY WORKS. TEMPORARY WORKS ARE TO BE DESIGNED BY THE CONTRACTOR.
- THESE NOTES SHALL BE SUPPLIED TO ALL SUB-CONTRACTORS.
- MINIMUM ALLOWABLE BEARING CAPACITY REQUIRED FOR FOOTINGS IS 50KPa

**STEEL:**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100.
- EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, STEEL MATERIALS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2 OF AS 4100 AND CLAUSE 1.5 OF AS 4600 AS FOLLOWS:
  - GRADE 300 FOR HOT-ROLLED STEEL MEMBERS (UB, UC, TFB, PFC, EA, UA) TO AS 3679.1
  - GRADE C350 FOR HOLLOW SECTIONS TO AS 1163
  - GRADE 450 PURLINS AND GIRTS TO AS 1397
  - GRADE 250 FOR ALL CONNECTING PLATES TO AS 3678
- BOLTS NOT DESIGNATED SHALL BE GRADE 8.8/S BOLTS TO AS 1252 TIGHTENED TO A SNUG TIGHT FIT. BOLTS DESIGNATED 4.6/S SHALL BE COMMERCIAL GRADE STEEL BOLTS TO AS 1111 AND AS 1112 TIGHTENED TO A SNUG FIT. WASHERS SHALL BE INSTALLED UNDER BOLT HEADS AND NUTS.
- ALL BOLTS, WASHERS AND NUTS SHALL BE SUPPLIED HOT-DIPPED GALVANISED TO AS 1214. INTERNAL THREADS SHALL BE TAPPED AFTER GALVANIZING AND OILED FOR CORROSION PROTECTION. GALVANISED BOLTS SHALL NOT BE RE-CUT.
- HOLDING DOWN BOLTS SHALL BE RIGIDLY TIED TOGETHER PRIOR TO INSTALLATION (EG TACK WELD 12mm DIAMETER REINFORCING BAR TO FORM A RIGID CAGE) TO ENSURE CORRECT BOLT LOCATIONS AND SET OUT USING A 3mm STEEL TEMPLATE SUPPLIED BY THE FABRICATOR.
- BOLT HOLE SIZE SHALL BE AS FOLLOWS:
  - BOLT DIAMETER PLUS 2mm FOR STEEL TO STEEL CONNECTIONS.
  - BOLT DIAMETER PLUS 4mm FOR STEEL TO CONCRETE CONNECTIONS.
  - BOLT DIAMETER PLUS 6mm FOR HOLDING DOWN BOLTS.
- WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554.
- EXCEPT WHERE OTHERWISE SHOWN WELDS TO BE 6mm CONTINUOUS FILLET AND SHALL BE STRUCTURAL PURPOSE (SP) WELDS. WELD ELECTRODES SHALL BE CLASS E48XX UNLESS SHOWN OTHERWISE. BUTT WELD SHALL BE FULL STRENGTH COMPLETE PENETRATION BUTT WELD, DENOTED F.S.B.W ON DRAWINGS. EXTENT OF WELD INSPECTION TO BE AS PER THE PROJECT SPECIFICATION.
- UNLESS SHOWN OTHERWISE MINIMUM BOLTED STRUCTURAL CONNECTION SHALL BE 10mm PLATE WITH 2M20 8.8/S BOLTS.
- UNLESS SHOWN OTHERWISE STRUCTURAL MEMBERS SHALL BE CONCENTRIC AT CONNECTIONS (GRAVITY OR GAUGE LINES TO INTERSECT).
- THE ENDS OF ALL TUBULAR MEMBERS ARE TO BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS FILLET WELD UNLESS OTHERWISE SHOWN.
- BASE PLATES SHALL BE GROUTED USING APPROVED HIGH STRENGTH NON SHRINK GROUTS BEFORE COLUMNS ARE LOADED.
- DRILLED IN ANCHOR BOLTS & RODS NOTED AS 'CHEM, CHEMSET OR EPOXYED' TO BE INSTALLED TO MANUFACTURERS SPECIFICATION ('CHEM-SET OR 'EPOXY-SET' BY RAMSET, 'POWER-FAST PRO EPOXY' BY POWERS OR APPROVED EQUAL).
- THE STRUCTURAL STEELWORK SHALL BE MADE SAFE DURING ERECTION AGAINST WIND AND ALL ERECTION STRESSES AND LOADING CONDITIONS INCLUDING THOSE DUE TO ERECTION EQUIPMENT.
- ALL STEEL WORK SHALL BE HOT DIPPED GALVANISED HDG500 TO AS4680 THEN PAINTED. PAINT COLOUR TO BE APPROVED PRIOR TO APPLICATION.
- DAMAGE TO GALVANISED COATING OR PAINT SHALL BE CARRIED OUT BY POWER TOOL CLEANING TO AS 1627.2, OR IF INACCESSIBLE, BY HAND TOOL CLEANING TO AS 1627.7, FOLLOWED BY SOLVENT CLEANING/DEGREASING TO AS 1627.1 AND THE APPLICATION OF TWO COATS OF AN INORGANIC ZINC-RICH PRIMER EACH 75 MICRONS DRY FILM THICKNESS OVERLAPPING SOUND METALLIC ZINC.

**CONCRETE:**

- SURFACE TREATMENT OF EXPOSED CONCRETE SHALL BE WOOD TROWEL FLOAT UNLESS NOTED OTHERWISE.
- ALL EXPOSED CONCRETE CORNERS TO HAVE 25mm CHAMFER.
- CONCRETE GRADE TO BE 25MPa AND SHALL BE SUPPLIED, PLACED AND TESTED TO AS 3600 (IN SITU).
- REINFORCEMENT BARS TO BE SUPPLIED, PLACED, FIXED AND SUPPORTED IN ACCORDANCE WITH AS 3600 - CONCRETE STRUCTURES.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600-2009.
- CLEAR CONCRETE COVER TO REINFORCEMENT FOR IN-SITU CONCRETE ELEMENTS SHALL BE 60mm UNLESS NOTED OTHERWISE.
- CONCRETE MIX DESIGN SHALL BE PROVIDED TO THE QUALITY MANAGER FOR APPROVAL.
- NO CONCRETE ADMIXTURE OR ADDITIVES SHALL BE USED WITHOUT WRITTEN APPROVAL FROM THE QUALITY MANAGER. AIR ENTRAINMENT IS NOT PERMITTED.
- FOOTING SHALL HAVE A CONCRETE GRADE OF N25.
- WATER WITH MORE THAN 0.03% CHLORIDE OR CHLORINE CONTENT SHALL NOT BE USED.
- ALL CONCRETE TO BE READY MIXED SUPPLIED IN ACCORDANCE WITH AS 1379 BY THE BATCH PRODUCTION PROCESS. READY MIXED CONCRETE SHALL BE DELIVERED IN AGITATING TRUCKS.
- FORMWORK AND FALSEWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3610.
- FORMS SHALL NOT BE STRIPPED OR ANY FORMWORK SUPPORTS REMOVED UNTIL THE CONCRETE HAS ACQUIRED SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT AND ANY SUPERIMPOSED LOADS WITHOUT DETRIMENT TO ITS INTENDED USE.
- UNDER NO CIRCUMSTANCES SHALL FORMWORK OR PROJECTING REINFORCEMENT BE SHAKEN, DISPLACED OR DISTURBED MORE THAN TWENTY MINUTES AFTER PLACING THE CONCRETE.
- CONCRETE SHALL BE CONTINUOUSLY CURED FOR AT LEAST 7 DAYS.
- THE CONCRETE SURFACE SHALL BE MAINTAINED AT A TEMPERATURE NOT LESS THAN 5° THROUGHOUT THE CURING PERIOD.

**WOOD/PLASTIC COMPOSITE:**

- ALL PRODUCTS AND FITTINGS TO BE IN ADVANCED PLASTIC RECYCLING SPECIFICATIONS.

REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.	DWGCHK.	VERIFIED	APPROVED
3	FOR COUNCIL APPROVAL	26.11.15	P.C.	P.Sm.			
2	REMOVED CHECKERPLATE PLATFORM, MINOR EDITS	22.05.15	P.C.	P.Sm.			
1	ISSUED FOR COMMENT	19.05.15	P.C.	P.Sm.			

NOTES:

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING



- ▣ CIVIL INFRASTRUCTURE
- ▣ STRUCTURAL
- ▣ ENVIRONMENTAL
- ▣ WATER RESOURCES
- ▣ STORMWATER MANAGEMENT
- ▣ ROAD SAFETY & TRAFFIC
- ▣ BUILDING SURVEYING
- ▣ SPATIAL INFORMATION
- ▣ ELECTRICAL, MECHANICAL AND AUTOMOTIVE

SHEET SIZE	A1	ADVANCED PLASTIC RECYCLING		
SCALE:	AS SHOWN	APR SIGN FOOTING DESIGN		
ORIGINAL SURVEY BY		GENERAL CONSTRUCTION VIEWS		
SURVEY DATE:		FILENAME:	JOB NUMBER	SHEET NUMBER
COORDS & DATUM	20150432_STRUCTURAL.DWG	2015.0432	01	3
COORDINATES TO MGA 54 ALL LEVELS TO A.H.D.				