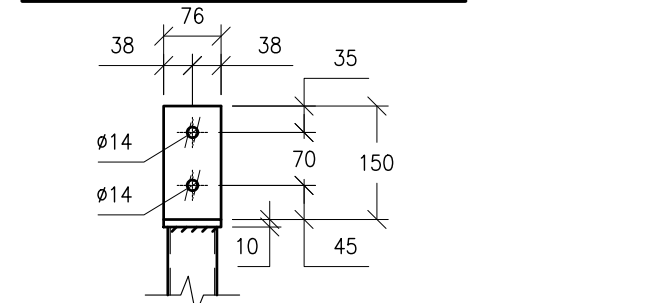
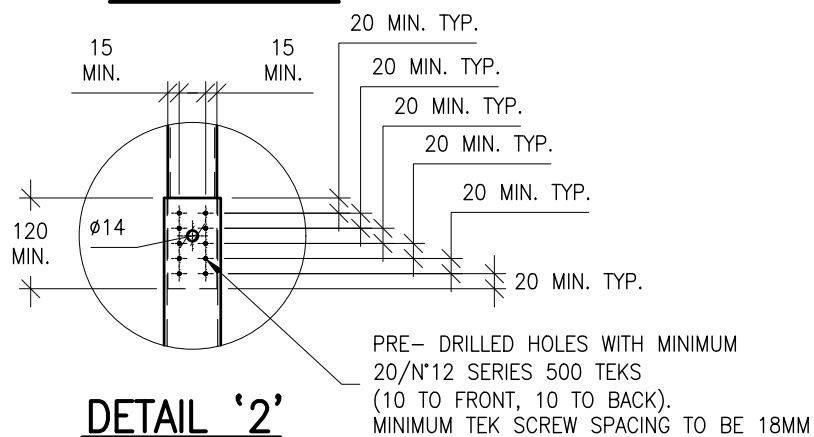


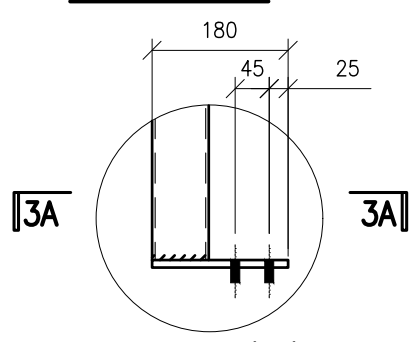
DETAIL '1' - LVL TOP



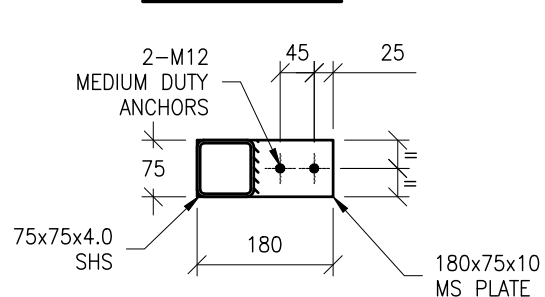
SECTION 1A



DETAIL '2'

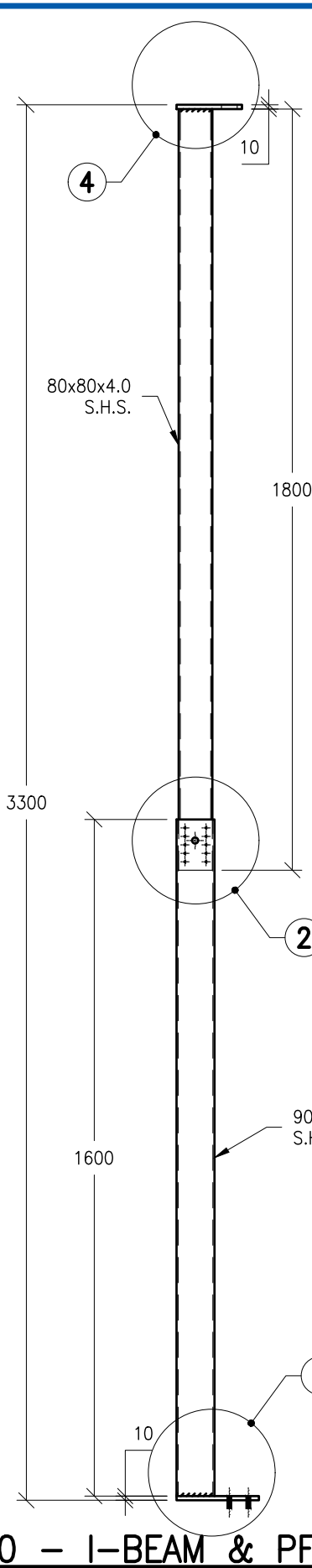


DETAIL '3'



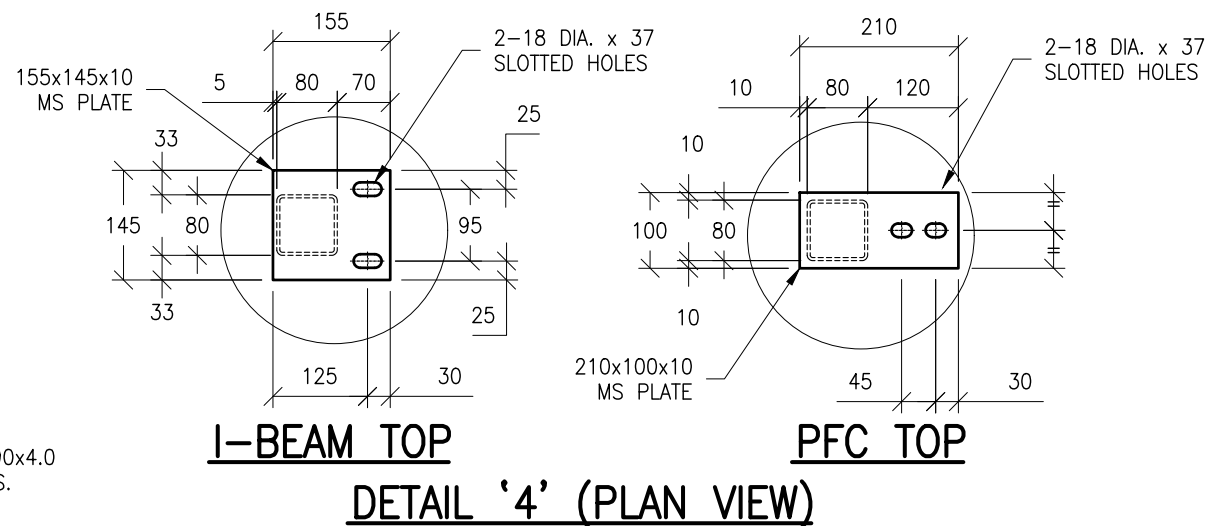
SECTION 3A

75x75 LVL TOP



GENERAL NOTES:

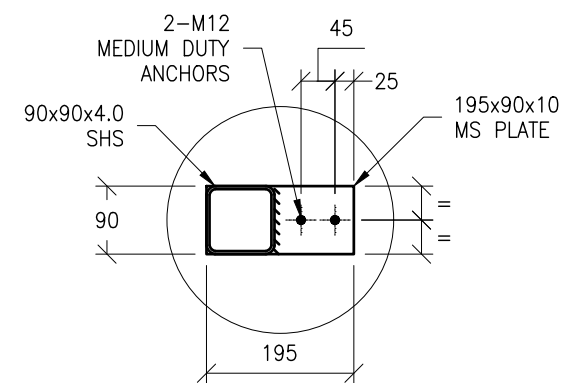
- G1. TEK SCREW CAPACITY BASED ON BUILDEX SERIES 500 12g TEK SCREW UNFACTORED MECHANICAL SHEAR CAPACITY OF 9kN/SCREW AS PER BUILDEX PRODUCT CATALOGUE AND SELECTION GUIDE - 2004.
- G2. THIS CONNECTION HAS A MAXIMUM ULTIMATE AXIAL CAPACITY OF 54kN (DOWNWARD LOADING). THIS EQUATES TO 2.7m HIGH BRICK VENEER WALLS AND 8.0 SQUARE METRES OF TIMBER FLOOR, CEILING, TILE ROOF OVER AND INTERNAL FRAMED WALLS FOR AN EXTERNAL COLUMN, OR 10.5 SQUARE METRES OF TIMBER FLOOR, CEILING, TILE ROOF OVER AND INTERNAL FRAMED WALLS FOR AN INTERNAL COLUMN. THIS CONNECTION CAPACITY MAY BE INCREASED BY ADDING MORE TEK SCREWS, REFER BACK TO THE ENGINEER FOR ADVICE IF REQUIRED.
- G3. THIS CONNECTION ALLOWS FOR A MAXIMUM ECCENTRICITY OF $d/6$, TO ALLOW FOR UNEVEN LOADING OF THE POST.
- G4. BEAR THE BEAM DIRECTLY ONTO THE COLUMN CAPPLATE BEFORE BOLTING TO MINIMISE ECCENTRIC LOADING THROUGH THE BOLTS.
- G5. COLUMN TO BE LATERALLY RESTRAINED BY CONNECTION TO THE ADJACENT WALL FRAMES.
- G6. THIS CONNECTION HAS A NOMINAL UPLIFT CAPACITY AND NOMINAL CAPACITY TO TRANSFER HORIZONTAL LOADS.
- G7. THE BEAM OVER MUST BE LOADED EVENLY, CONCENTRIC TO THE MIDDLE OF THE BEAM. THIS WILL ENSURE THAT THERE WILL BE NO TWISTING IN THE BEAM CAUSING UNEVEN LOADING OF THE COLUMN CAPPLATE. IF UNSURE, CONTACT THE ENGINEER PRIOR TO PROCEEDING.
- G8. THE COLUMN CAP PLATE CONNECTION IS CONSIDERED A FLEXIBLE CONNECTION.
- G9. ALL STEELWORK IS TO COMPLY WITH THE BCA, SPECIFICALLY, AS4100 AND AS1163.
- G10. ALL STEELWORK (INCLUDING FASTENERS) TO BE TREATED IN ACCORDANCE WITH CLAUSE 3.4.4.4 "CORROSION PROTECTION" OF THE BUILDING CODE OF AUSTRALIA.
- G11. ALL WELDING TO BE TO AS 1554 - PT 1 - WELDING OF STEEL STRUCTURES.
- G12. (a) PLATE STRENGTH - 250 MPa.
(b) WELD TYPE E41XX/W40X - 410 MPa.
- G13. ALL REFERENCED STANDARDS TO BE THE CURRENT VERSION AT TIME OF CONSTRUCTION.
- G14. ALL WORK TO CONFORM WITH THE PROVISIONS OF THE BUILDING CODE OF AUSTRALIA.
- G15. THE MAXIMUM HEIGHT OF THE POST AS SHOWN ON COLUMN DETAILS.
- G16. THE CAPACITY OF THE BOLTS HAVE NOT BEEN CONSIDERED WHEN DETERMINING THE CAPACITY OF THE CONNECTION.



I-BEAM TOP

PFC TOP

DETAIL '4' (PLAN VIEW)



90x90 - I-BEAM & PFC TOP DETAIL '5' (PLAN VIEW)

NOTE:
 • ALL WELDS TO BE 4mm CFW U.N.O.
 • ALL BOLTS TO BE SPANNER TIGHTENED

RESIDENTIAL ENGINEERING
 Structural Engineers • Surveying & Geotechnical
 NSW • WA • VIC
 P +61 2 9896 5494 Level 2, 73-75 Dunmore Street, WENTWORTHVILLE, NSW 2145 nsw@reseng.com.au
 P +61 2 4869 5003 3/256 Argyle Street, MOSS VALE, NSW 2577 www.residentialengineering.com.au
 RESIDENTIAL ENGINEERING PTY LTD ACN 612 898 429 ABN 24 612 898 429 TRADING AS RESIDENTIAL ENGINEERING

COPYRIGHT: THIS DRAWING REMAINS THE PROPERTY OF RESIDENTIAL ENGINEERING AND MAY NOT BE ALTERED IN ANY WAY WITHOUT RESIDENTIAL ENGINEERING WRITTEN CONSENT

APPROVED BY:

 M. AIEZZA
 B.E.(Civil), F.I.E.Aust., N.E.R., C.P.Eng.

CLIENT REF: -
 DATE: 31.08.20
 DRAWN: JR
 SCALE: 1:15

FOR: BUILDERS STEEL DIRECT
 SITE ADDRESS: ADJUSTABLE POSTS

DRAWN	DATE	AMENDMENT	REV

JOB No: CS2356
 SHEET No: 01 of 01