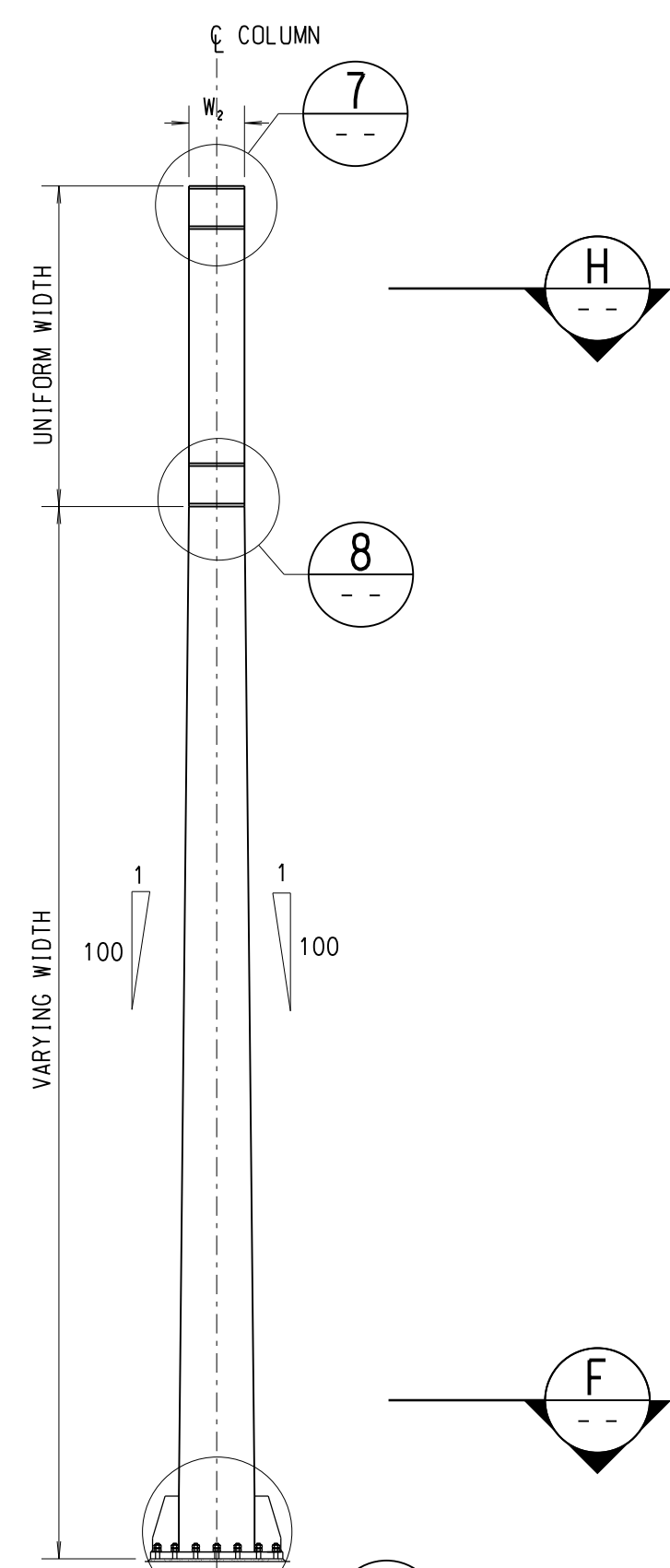
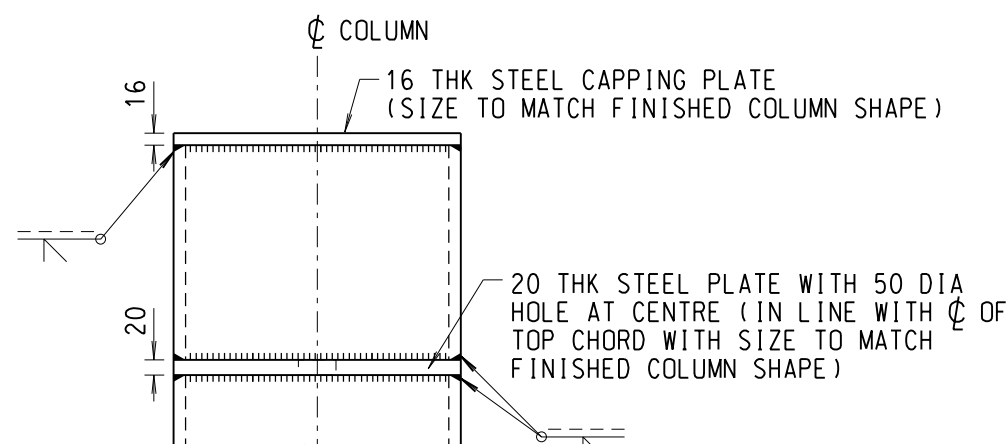


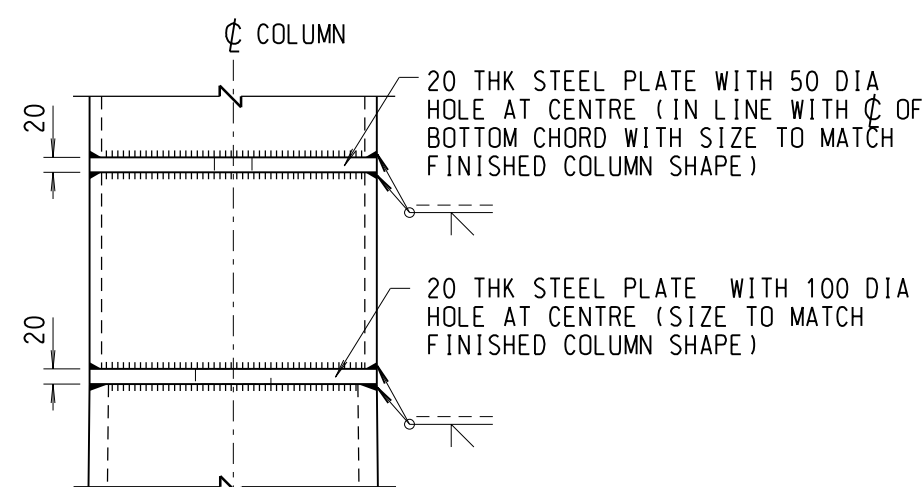
ELEVATION OF GANTRY COLUMN
SCALE 1:50



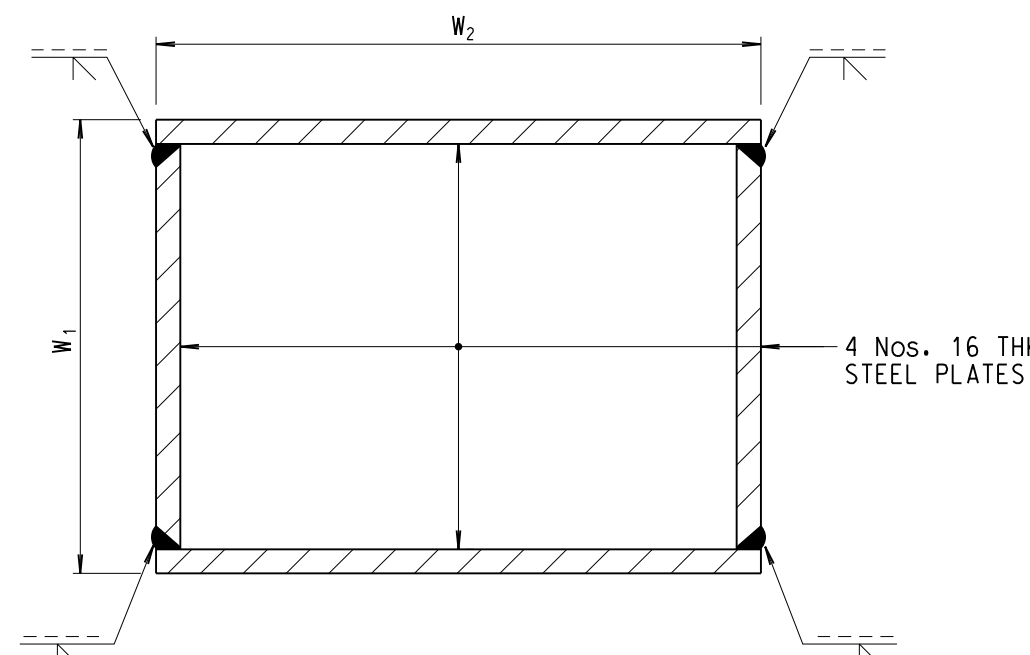
ELEVATION
SCALE 1:50



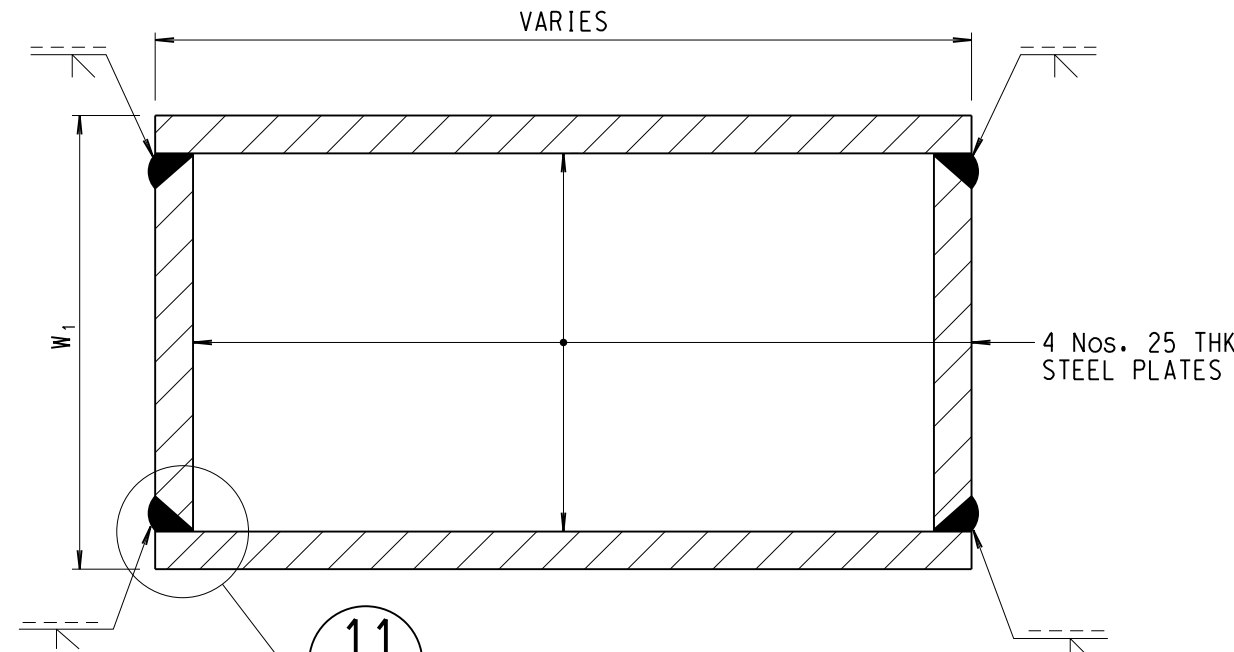
DETAIL 7
SCALE 1:10



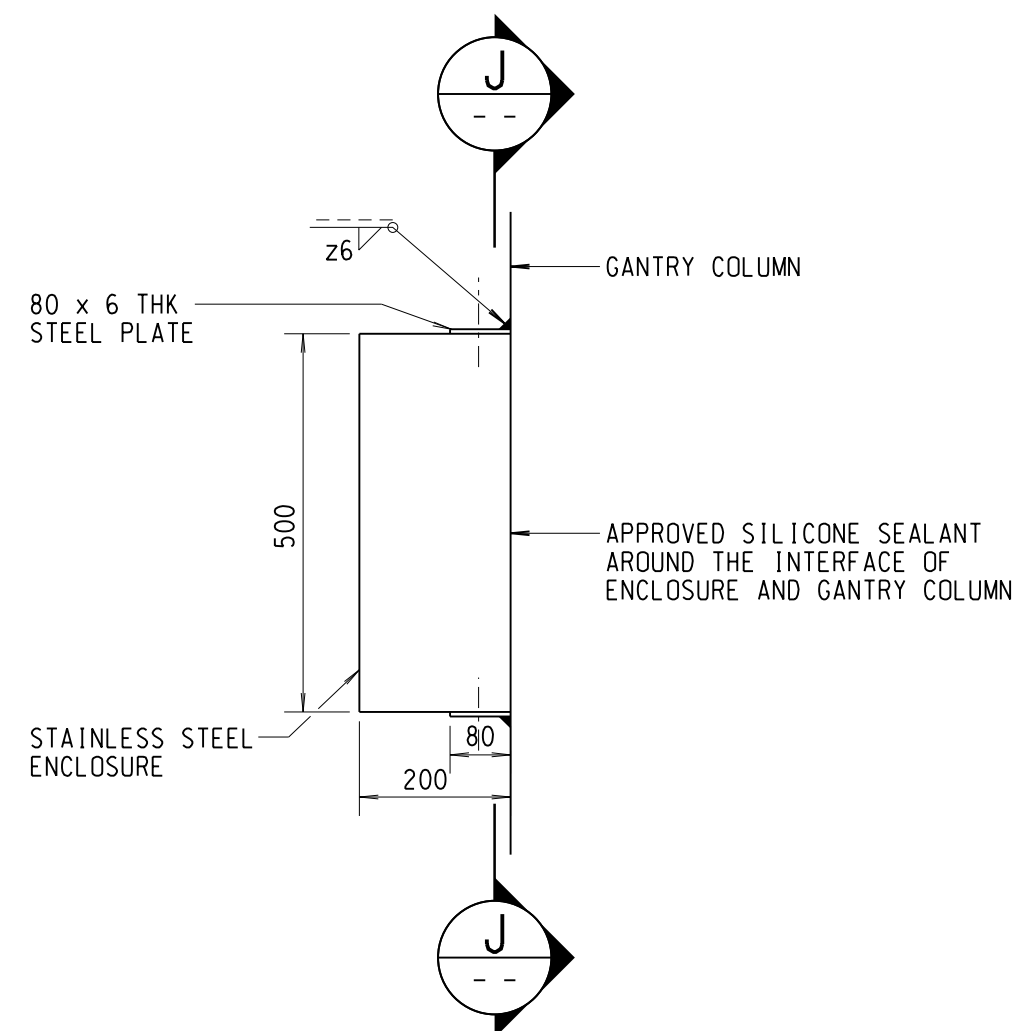
DETAIL 8
SCALE 1:10



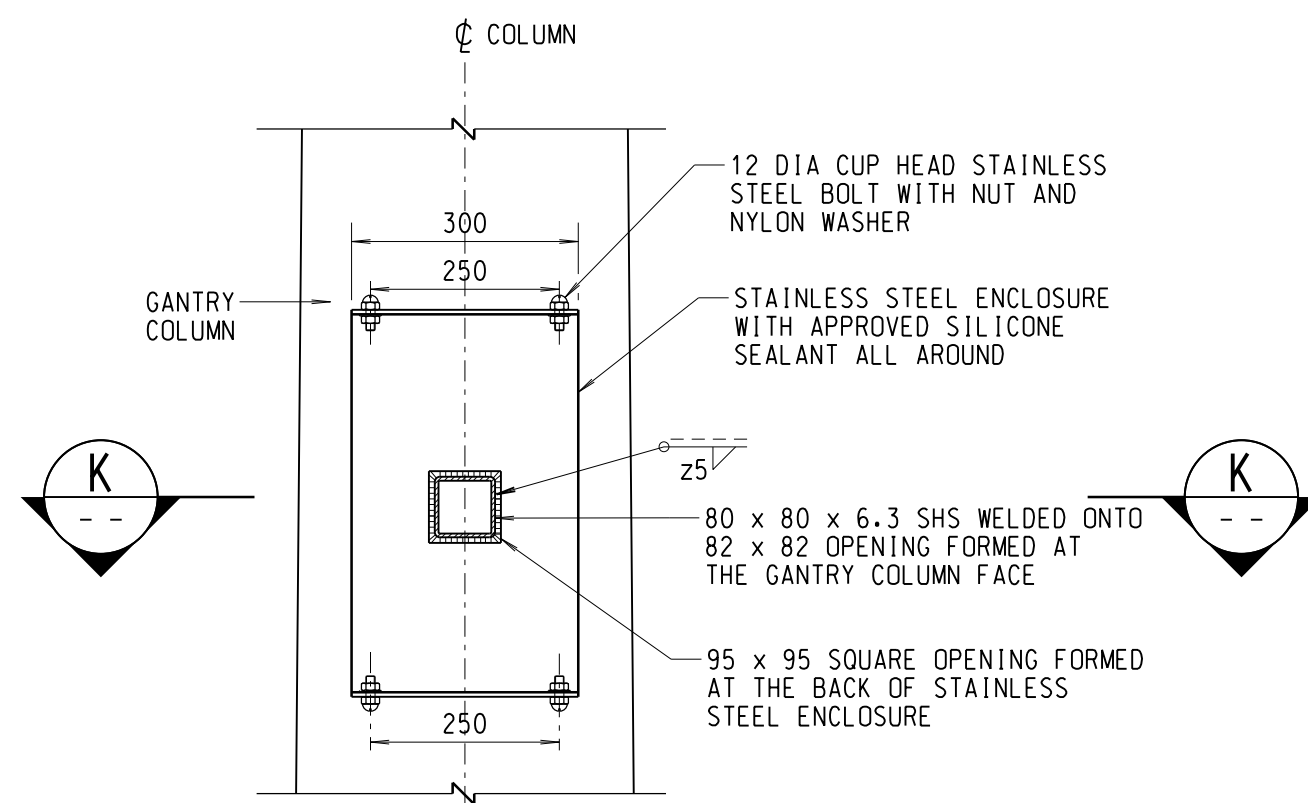
SECTION H
SCALE 1:5



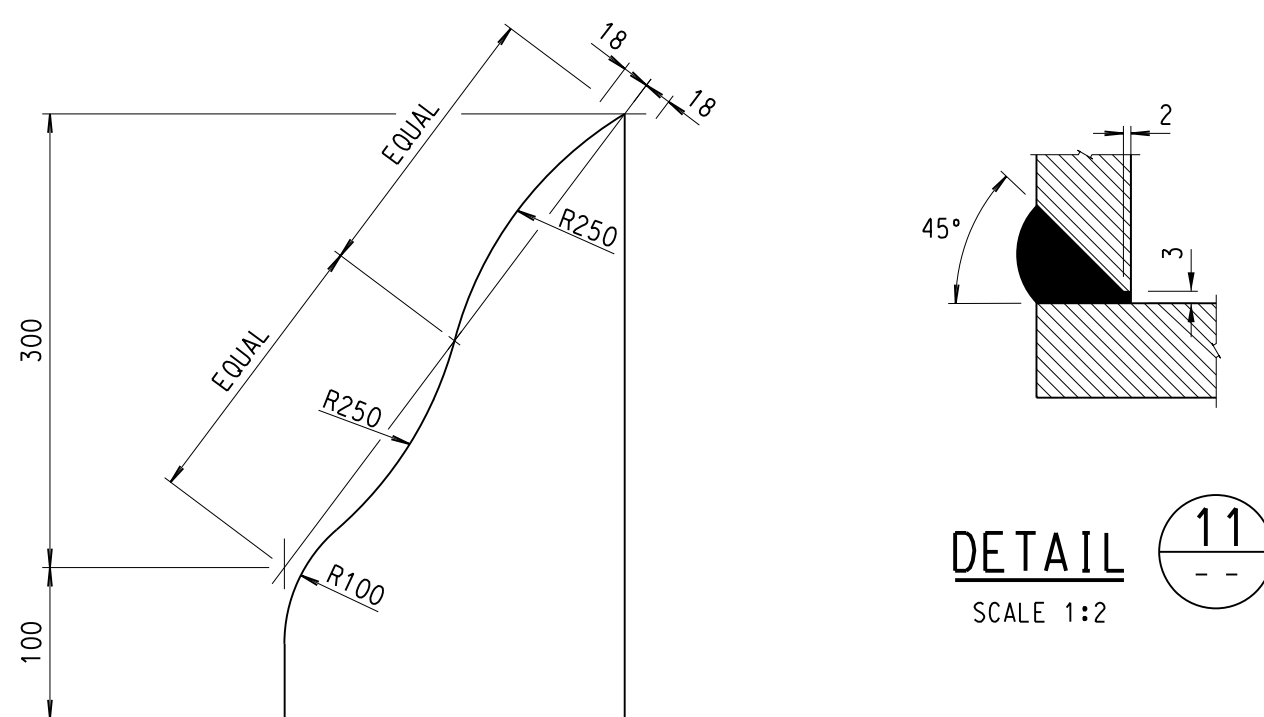
SECTION F
SCALE 1:5



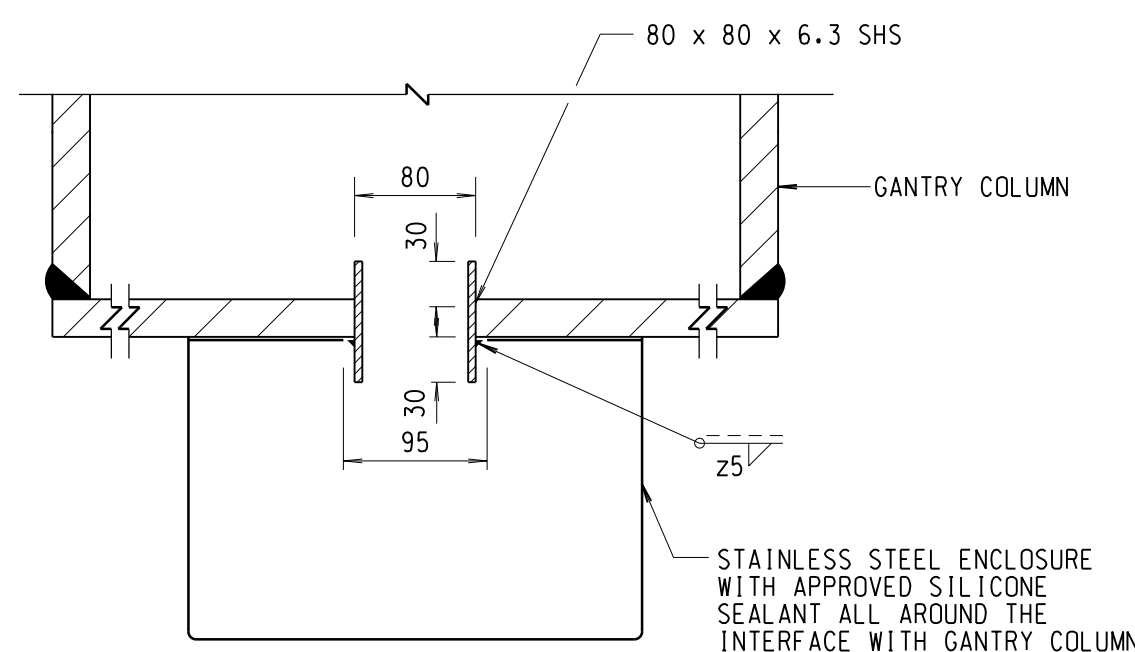
DETAIL 10
SCALE 1:10



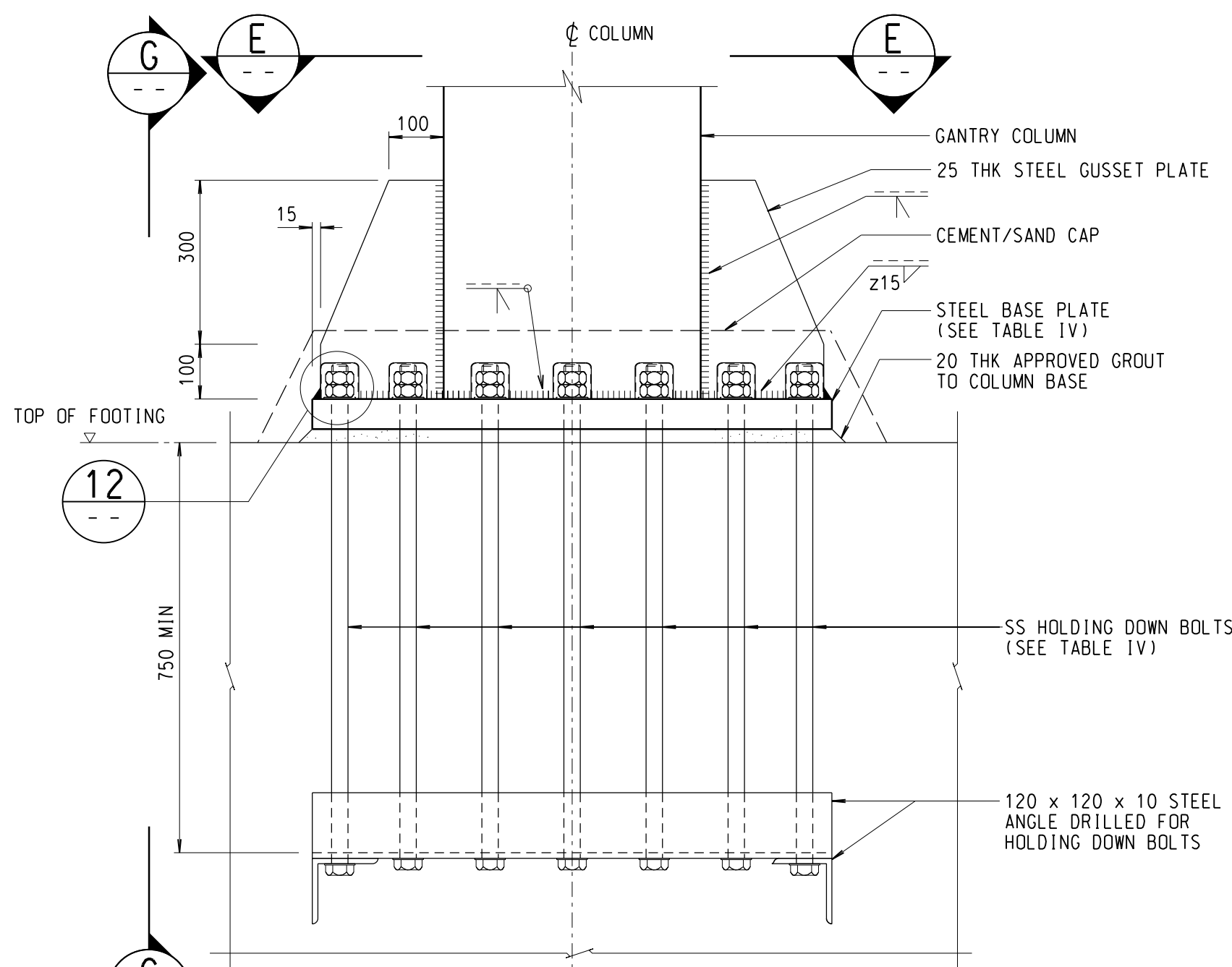
SECTION J
SCALE 1:10



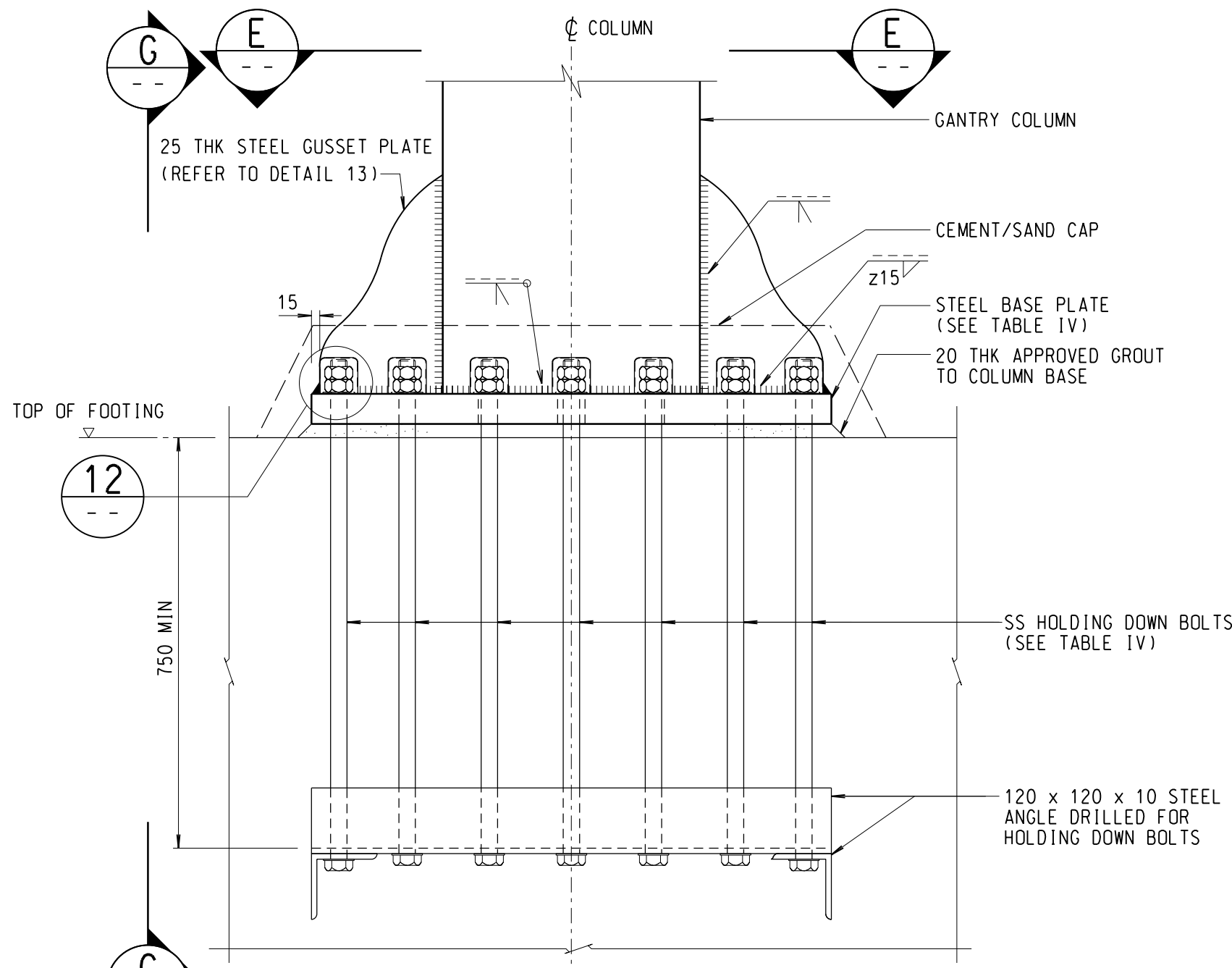
DETAIL 11
SCALE 1:2



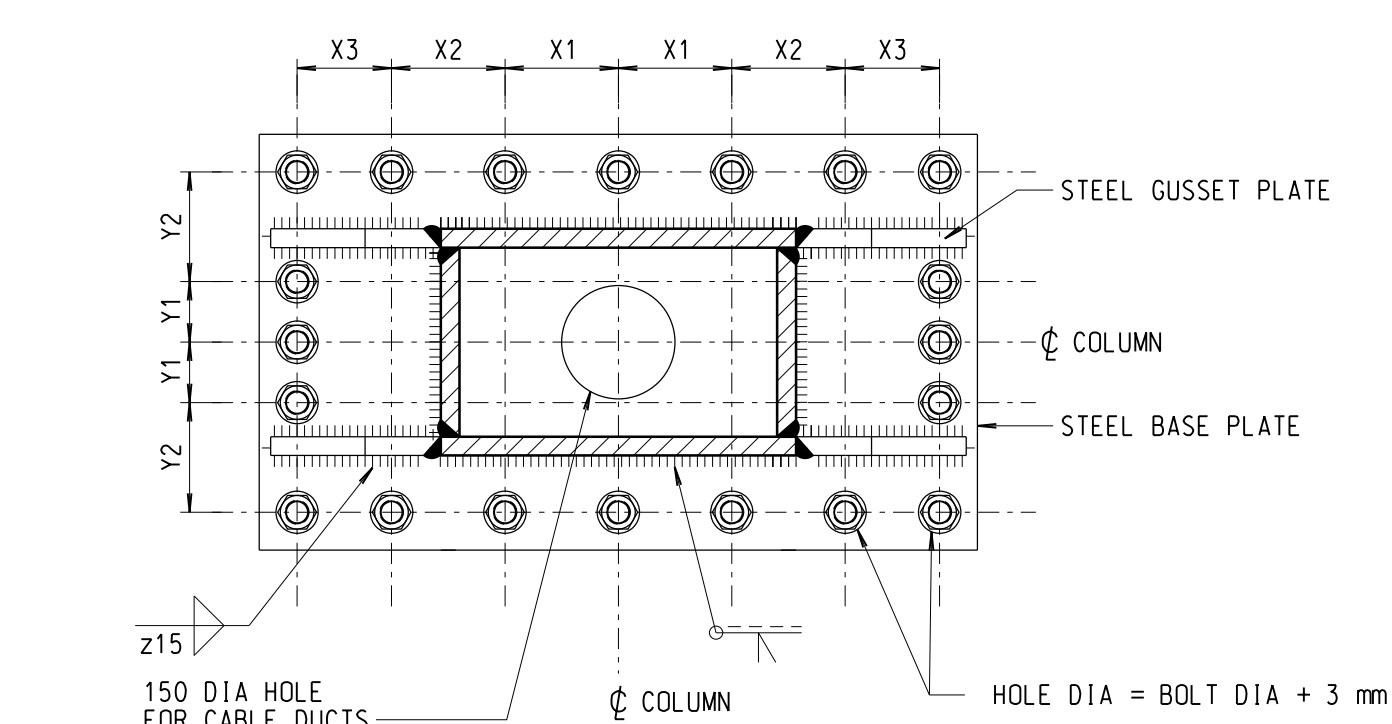
SECTION K
SCALE 1:5



DETAIL 9
TYPICAL CONNECTION OF GANTRY COLUMN TO FOUNDATION
(GUSSET PLATE BURIED)
SCALE 1:10

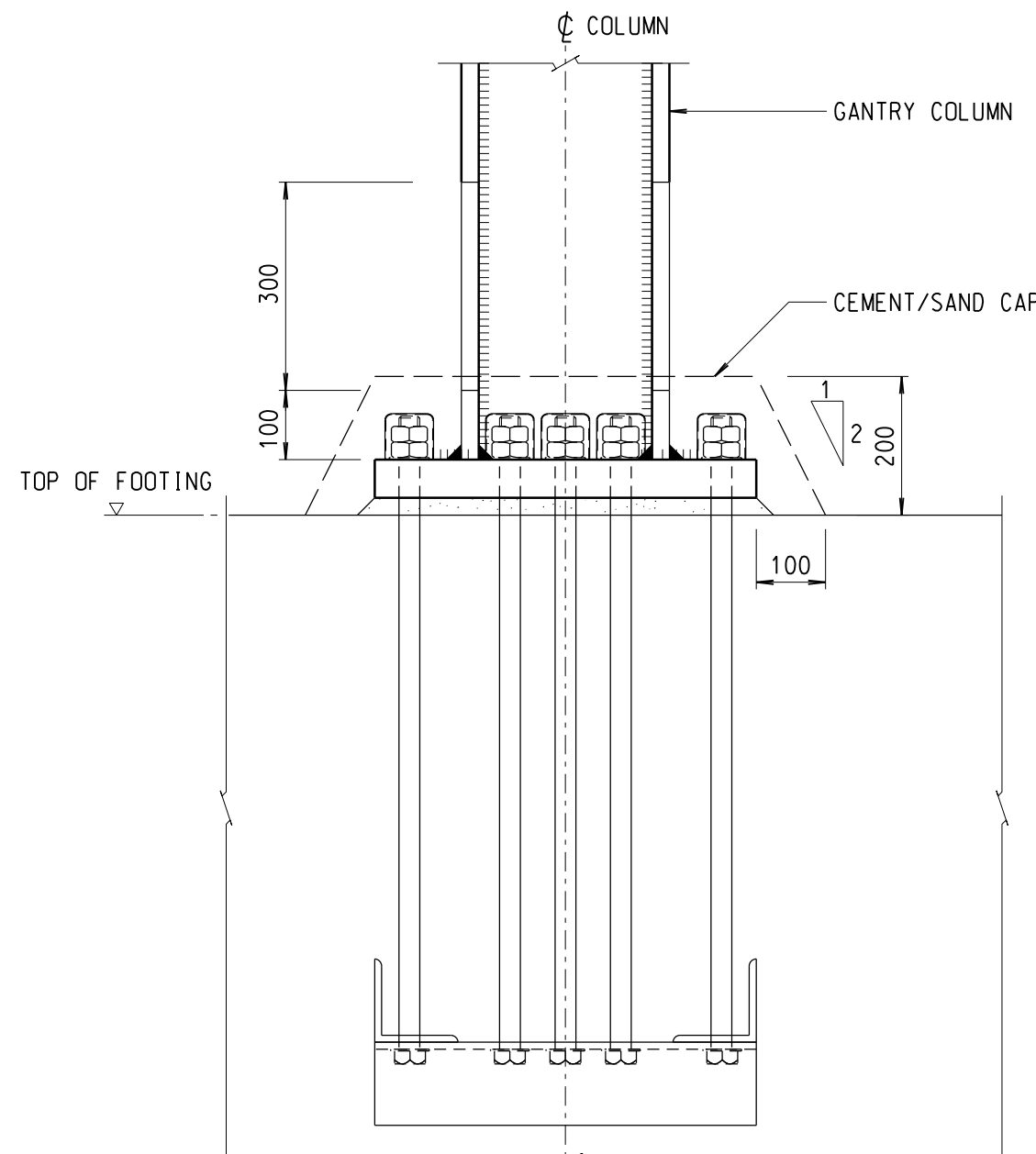


DETAIL 9
TYPICAL CONNECTION OF GANTRY COLUMN TO FOUNDATION
(GUSSET PLATE EXPOSED)
SCALE 1:10

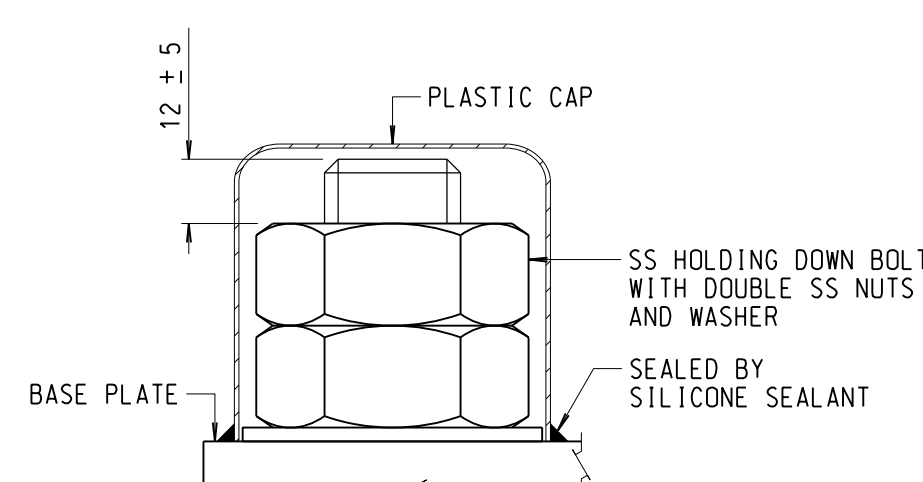


SECTION E
SCALE 1:10

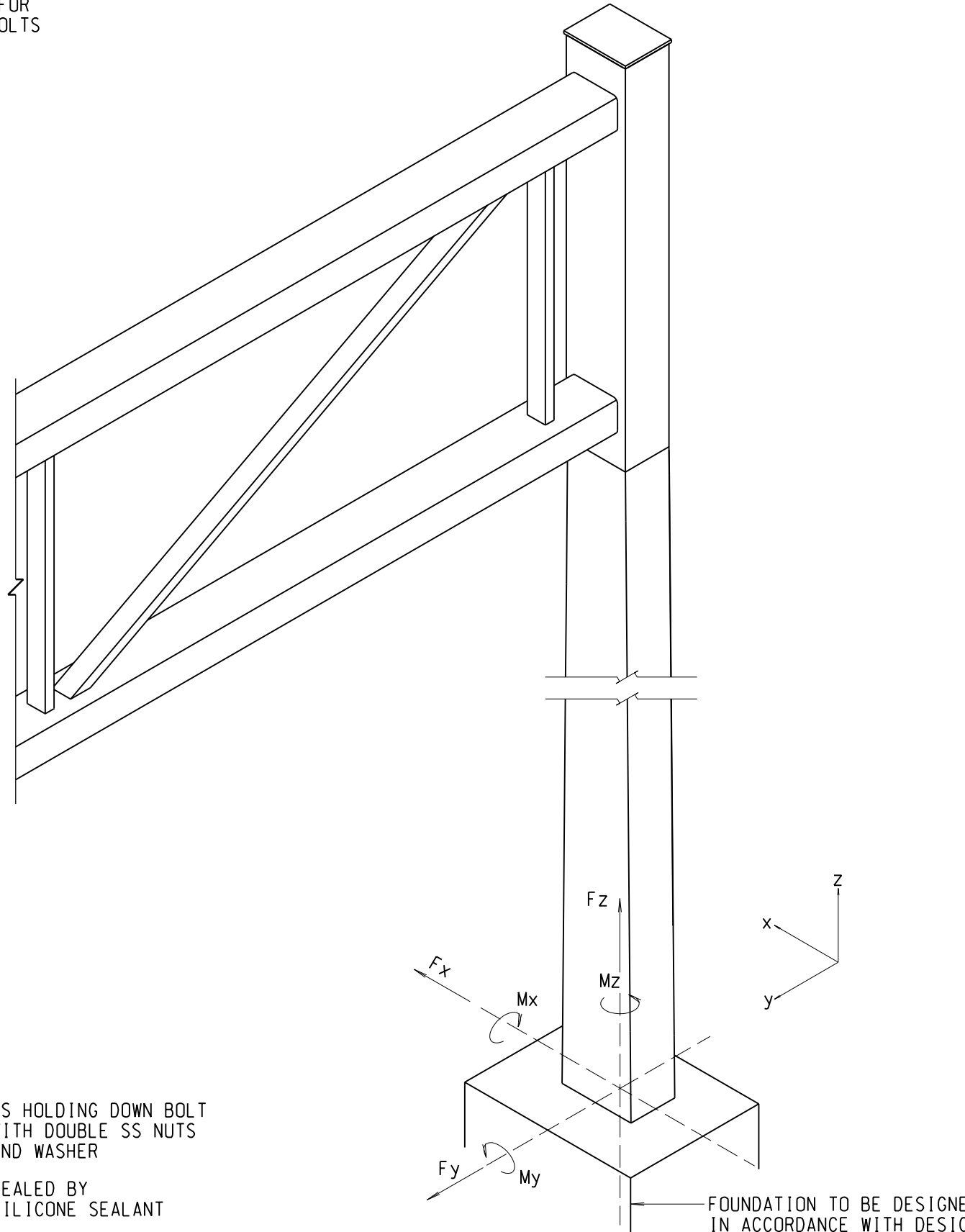
(CEMENT/SAND CAP AND PLASTIC CAP NOT SHOWN FOR CLARITY)



ELEVATION G
SCALE 1:10



DETAIL 12
SCALE 1:2



ISOMETRIC VIEW
DIAGRAMMATIC

TABLE IV - GANTRY COLUMN AND ANCHORAGE DETAILS

GANTRY TYPE	GANTRY COLUMN		BASE PLATE (mm)	HOLDING DOWN BOLTS						
	W ₁ (mm)	W ₂ (mm)		DIA	No.	X1 (mm)	X2 (mm)	X3 (mm)	Y1 (mm)	Y2 (mm)
A	300	350	900 x 500 x 40 THK	M30	20	130	150	120	80	120
B	300	400	950 x 550 x 45 THK	M30	20	150	150	125	80	145
C	350	450	1000 x 600 x 45 THK	M36	20	150	150	150	95	155
D	400	450	1000 x 650 x 50 THK	M36	20	150	150	150	115	160

TABLE V - UNFACTORED DESIGN ACTIONS AT BASE OF GANTRY COLUMNS

GANTRY TYPE	FORCE (kN)			MOMENT (kNm)		
	F _x	F _y	F _z	M _x	M _y	M _z
A	300	140	80	290	870	90
B	300	140	100	310	890	120
C	300	140	120	330	960	150
D	300	140	140	450	1220	250

TABLE VI - FACTORED DESIGN ACTIONS AT BASE OF GANTRY COLUMNS

GANTRY TYPE	FORCE (kN)			MOMENT (kNm)		
	F _x	F _y	F _z	M _x	M _y	M _z
A	490	220	110	470	1430	130
B	500	220	140	480	1440	190
C	500	220	160	500	1480	230
D	500	220	190	690	1890	380

- NOTES FOR TABLE V AND TABLE VI:
- A WIND PRESSURE OF 2.8 kN/m² HAS BEEN ADOPTED IN THE DESIGN.
 - DEFINITION OF FORCES AND MOMENTS SEE ISOMETRIC VIEW.
 - DESIGN OF REINFORCED CONCRETE SHALL COMPLY WITH THE STRUCTURES DESIGN MANUAL FOR HIGHWAYS AND RAILWAYS (2013).

NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. SSD151(1).

A	08/17	COLUMN BASE CONNECTION DETAILS REVISED: TABLE IV AND TABLE V REVISED: TABLE VI ADDED	SIGNED C.P. WONG, E/P2-3 SIGNED P.T. LEUNG, SE/P2
no.	date	description	initial
REVISION			
designed	K.K. LEE	SIGNED	NOV 01
drawn	T.M. LEE	SIGNED	NOV 01
senior technical officer	P.S. CHAN	SIGNED	SEP 02
project engineer	K.K. LEE	SIGNED	SEP 02
senior engineer	W.C. CHAN	SIGNED	SEP 02
approved	SIGNED R.K.W. WONG Chief Highway Engineer		SEP 2002 date

contract no.
file no.
project no.
contract

drawing title

SIGN GANTRY

SHEET 3 OF 4

drawing no. SSD151(3)-A
scale AS SHOWN

office BRIDGES AND STRUCTURES DIVISION
HIGHWAYS DEPARTMENT
HONG KONG
結 構 橋 樑 部 及 政 署

Scale 1 : 1 0 10 20 30 40 50 60 70 80 90 100mm

B1 SIZE 1000 X 707mm