

CORRIGENDUM -1 TO TENDER SPECIFICATION BHEL PSSR SCT 1590 - DT:10/07/2015

Some of the bidders sought clarifications vide letters in regard to TENDER SPECIFICATION BHEL PSSR SCT 1590 - Civil, Structural and Architectural works of Twin Flue RCC Chimney for 1 x 150TPH RESID Upgradation Project at CPCL, Manali, Chennai and BHEL's clarifications are furnished below for information.

Sl. No.	Reference	Clarification/Query	BHEL REPLY
1	BOQ item Sl. No. 5.1	Please confirm that Reinforcement Steel shall be supplied by BHEL free of cost & also confirm the place of issue of same.	Scope of supply is clearly mentioned in TCC and price bid. Bidder to quote accordingly.
2	BOQ item Sl. No. 6.1 & 6.2	Please confirm that Structural Steel shall be supplied by BHEL free of cost & also confirm the place of issue of same.	Scope of supply is clearly mentioned in TCC and price bid. Bidder to quote accordingly.
3	BOQ item Sl. No. 10.5	Please provide details of manholes.	Details will be provided during the detail engineering stage.
4	BOQ item Sl. No. 10.6	Please provide details of roof access cover.	Typical detail of roof access cover is attached for tendering purpose.
5	BOQ item Sl. No. 10.16	Please provide the weight of one number S.S. insert / plug.	The actual weight will be available after detail engineering.
6	BOQ item Sl. No. 12.1	Rate to be quoted by the Contractor shall be for mobilizing 1 No hydraulic rotary piling rigs along with accessories	Yes.
7	BOQ item Sl. No. 12.7	The item description is missing. Please confirm	Please quote for the items provided in BOQ.
8	Construction Drawings	Please provide the elevation drawings of RCC Chimney.	Tender Drawing attached
9	RCC Chimney	Please confirm the height of RCC Chimney.	Tender Drawing attached
10	Barricading	Please incorporate necessary items for temporary barricading work, since it is understood that the proposed site is adjacent to operating plants of Refinery.	Baricading work in in the scope of BHEL
11	Structural steel materials	Since the Structural steel materials will be issued by BHEL on free of cost to contractor on weight basis and the measurement may be certified on linear measurement basis, we would request you to consider the rolling margin i.e. 5% (approximately) during material reconciliation.	Tender condition prevails.
12	TCC Cl. No. 1.2.1.2, Page No. 33	It is understood that the maintenance for specified period of the RCC Chimney structure and foundation mentioned is only during Defect Liability Period of Twelve months for rectification of any construction defects and not the routine maintenance during operation.	TCC is clear.
13	TCC Cl. No. 1.2.1.2, d) Page No. 33 & Sl. No. 2 of preamble to the price bid	It is understood that all Construction drawings shall be issued by BHEL at site.	Construction drawing shall be issued by BHEL. Detail drawing preparation if mentioned in the BOQ item is in the scope of the bidder.

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14	Due date of Tender submission	The proposed work involves various vendor based items such as Slipform work, Mineral wool insulation, Fusion bonded epoxy coating, RCC piling, etc for construction of RCC chimney and associated Electrical, Lightning Protection works with involvement of substantial value. Hence, to prepare & submit competitive bid based on correct inputs from various vendors adequate time shall be required. Hence, we hereby request you to kindly arrange to extend the due date of tender submission up to 25.07.2015.	No further time extension.

Note:-

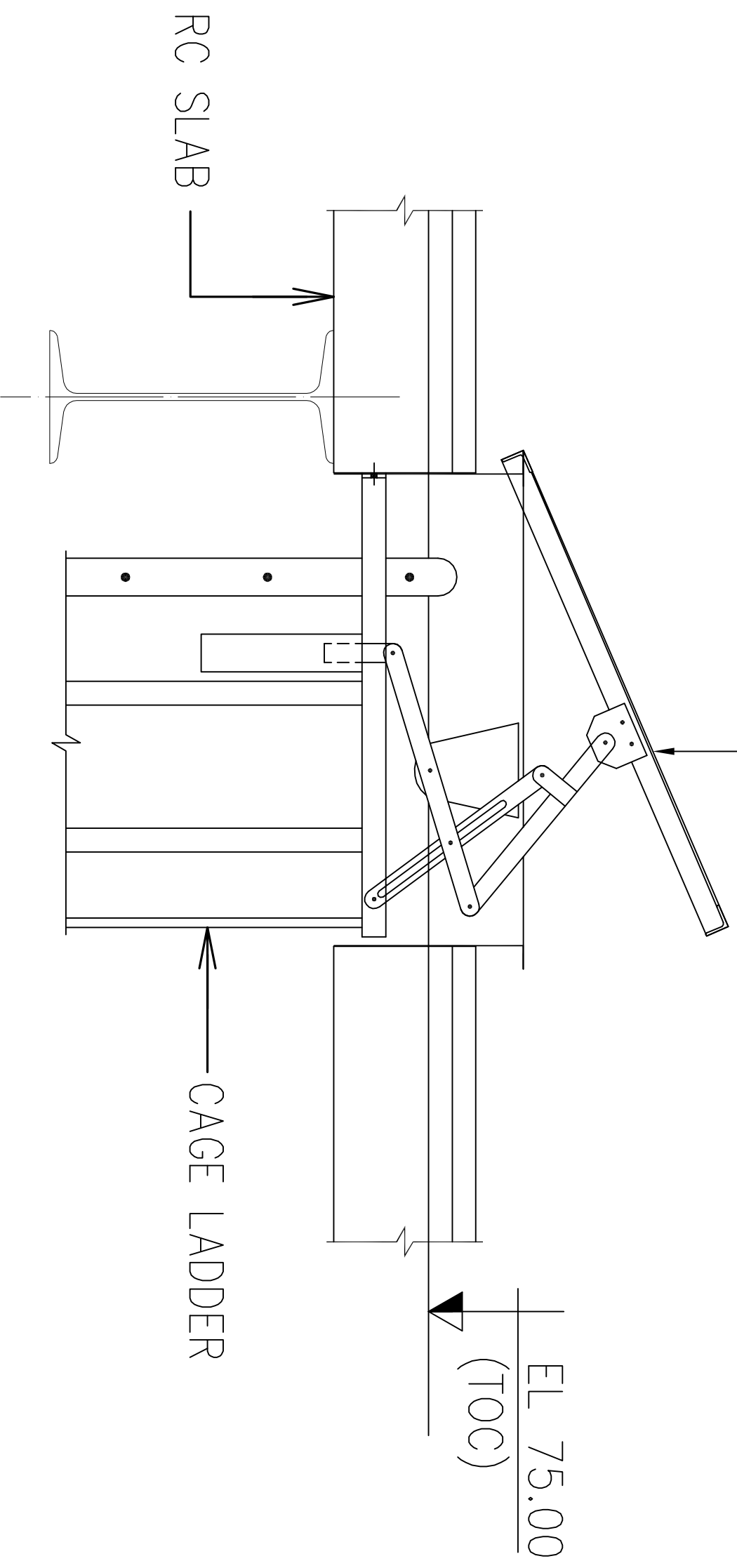
All other Terms & Conditions remain unchanged.

GM / HR & SCT

Encl:-

1. Roof access cover for tender purpose only - 01 Pages
2. Preliminary Chimney GA drawing for Tender Purpose Only - 01 Pages

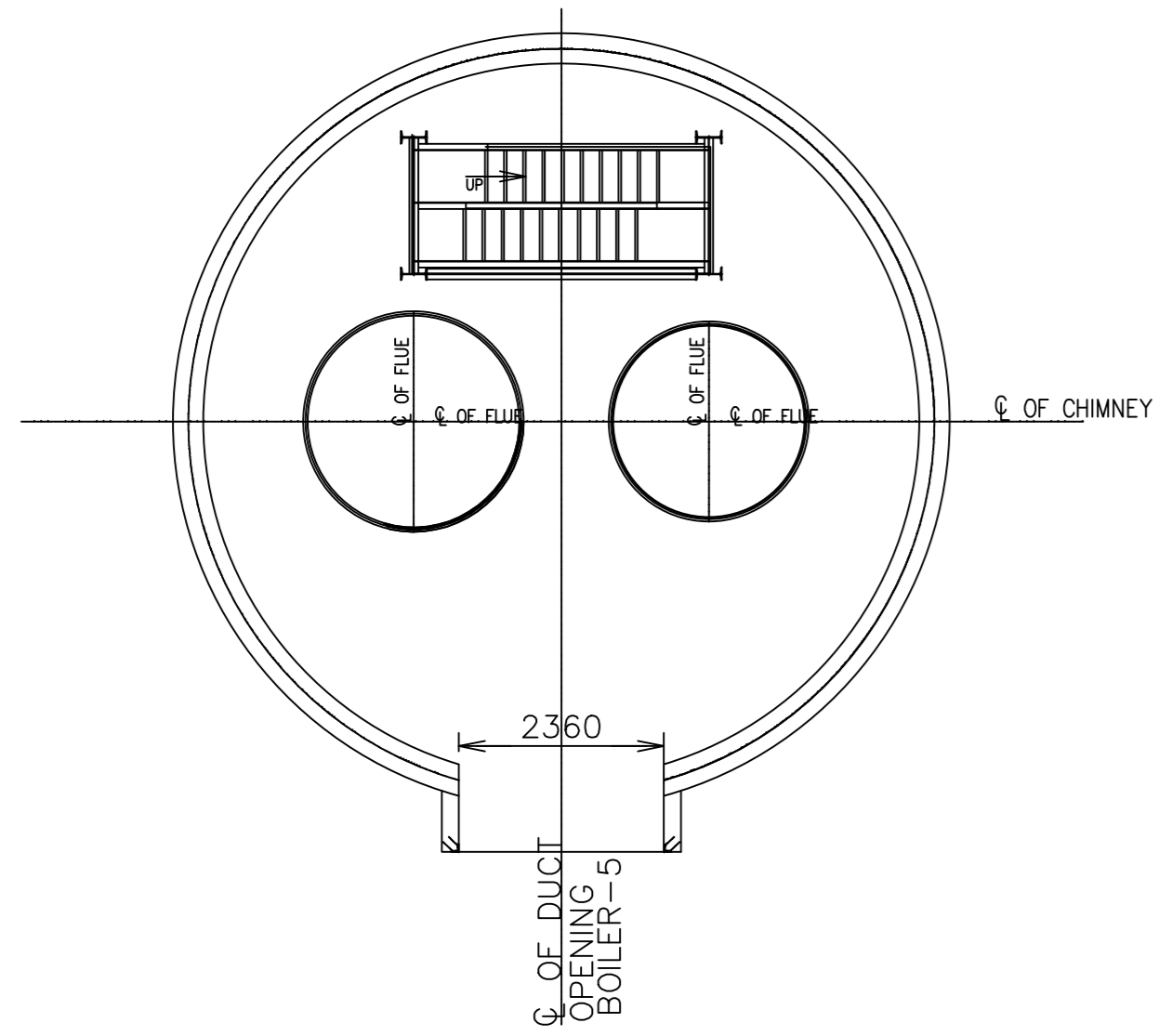
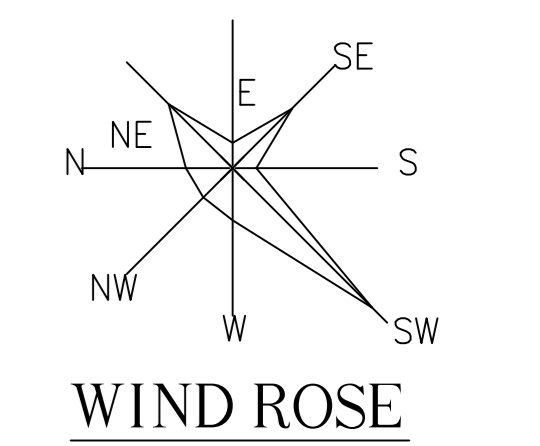
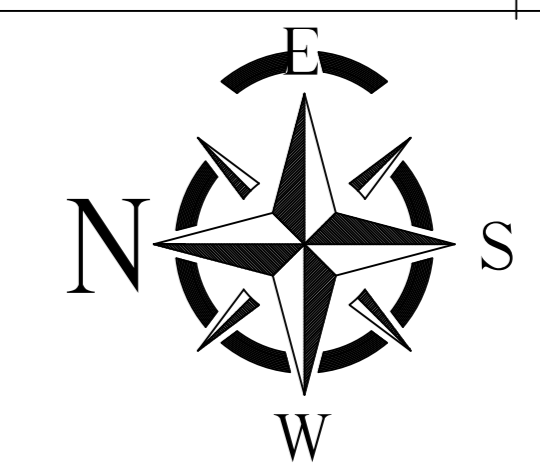
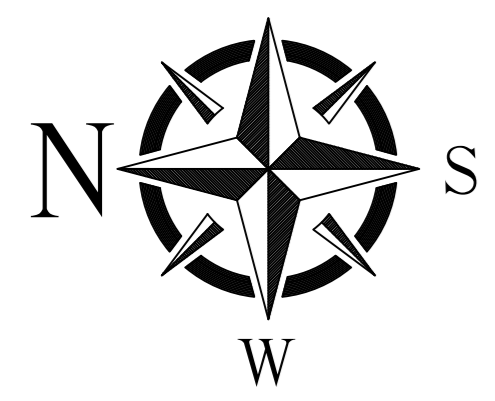
ACCESS COVER AND FRAME TO
1000x750 CLEAR OPENING IN SLAB
FABRICATED FROM 6 MM THK
SST CONFIRMING TO TYPE 316L
LOCKING LEVER AND COUNTER
BALANCE MECHANISM ON BOTH SIDES



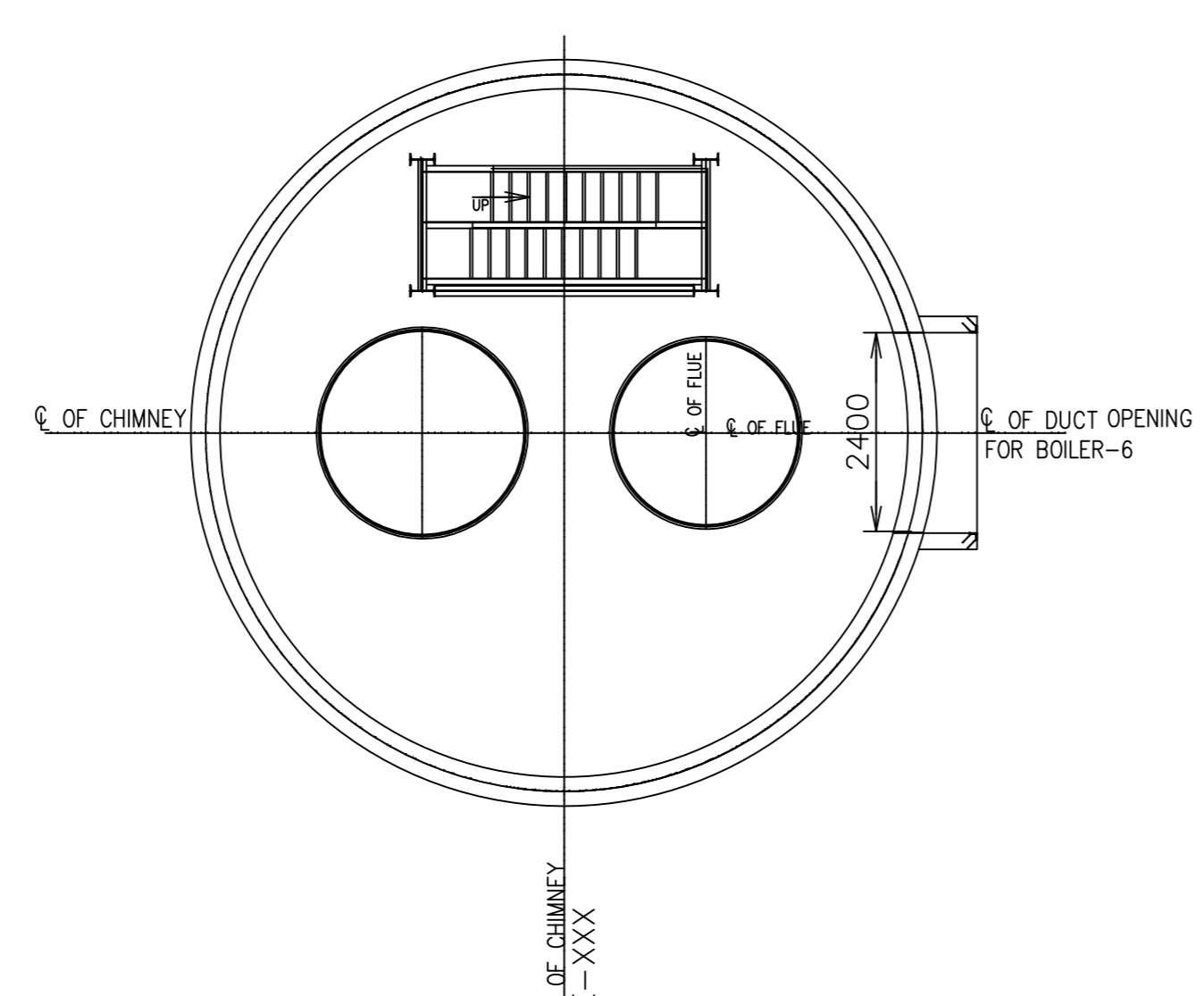
TENTATIVE DETAIL OF ROOF ACCESS COVER

(FOR TENDER PURPOSE ONLY)

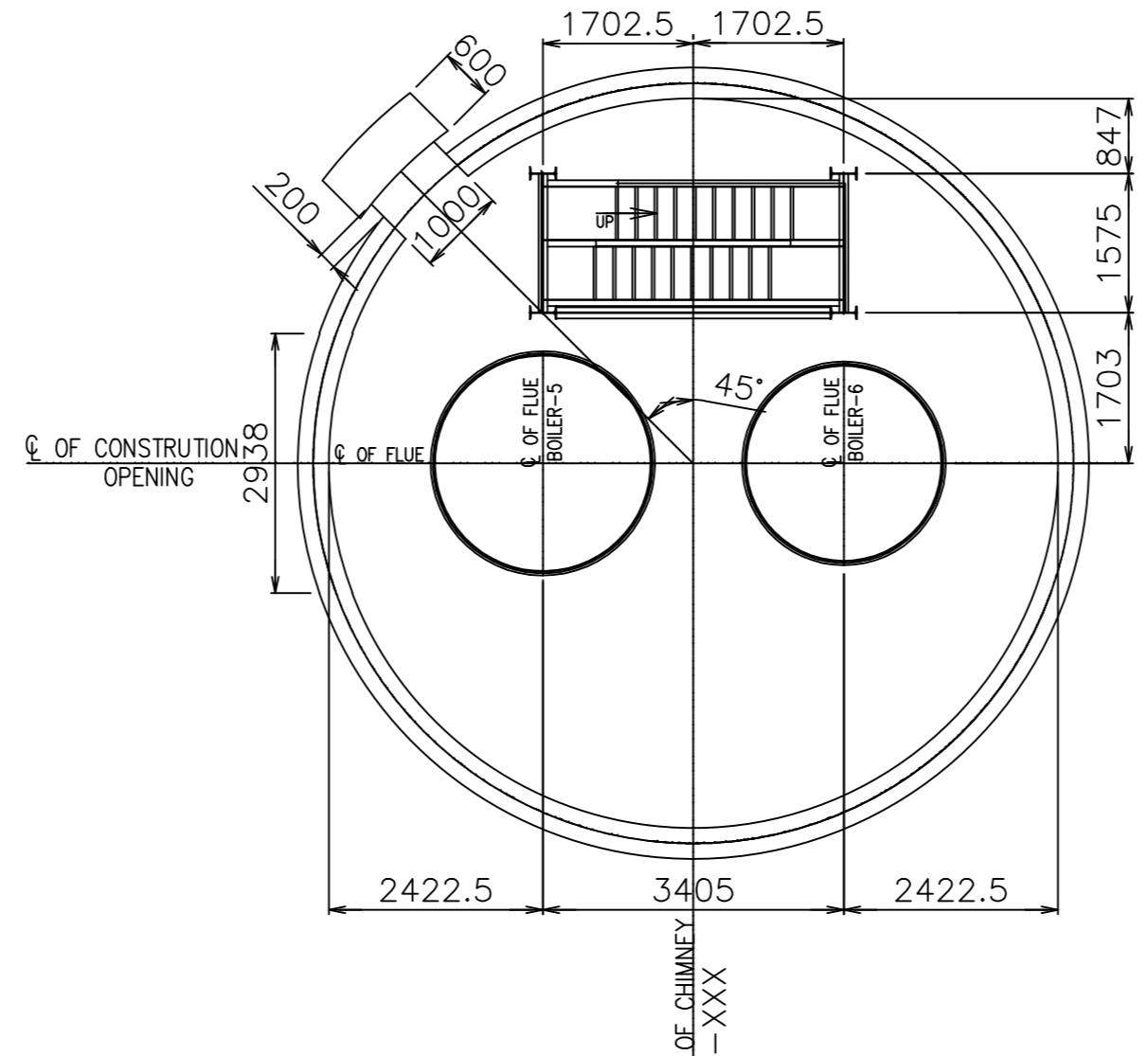
DO NOT SCALE



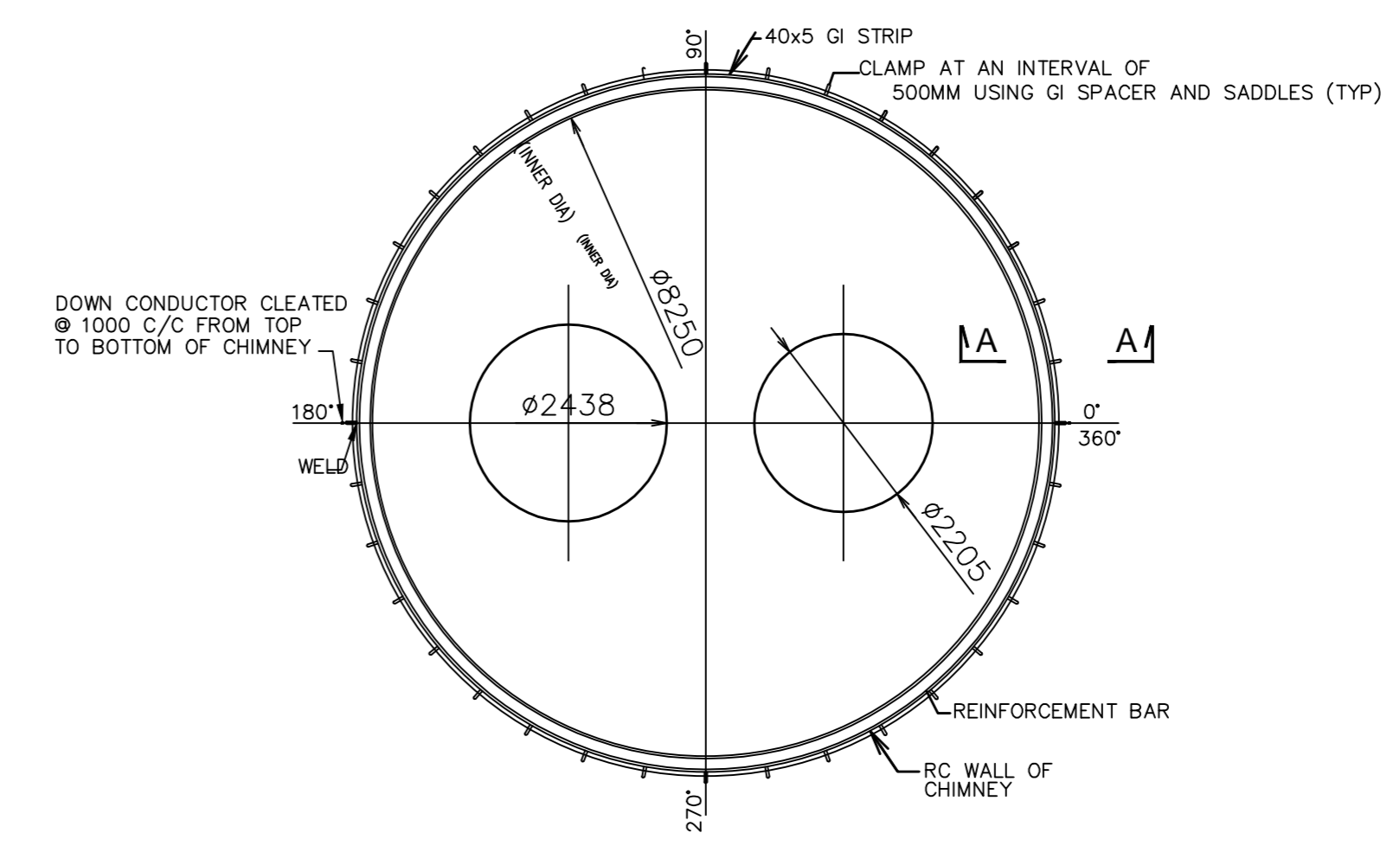
PLAN AT EL(+118.315)
(C/O OF OPENING FOR BOILER 5)



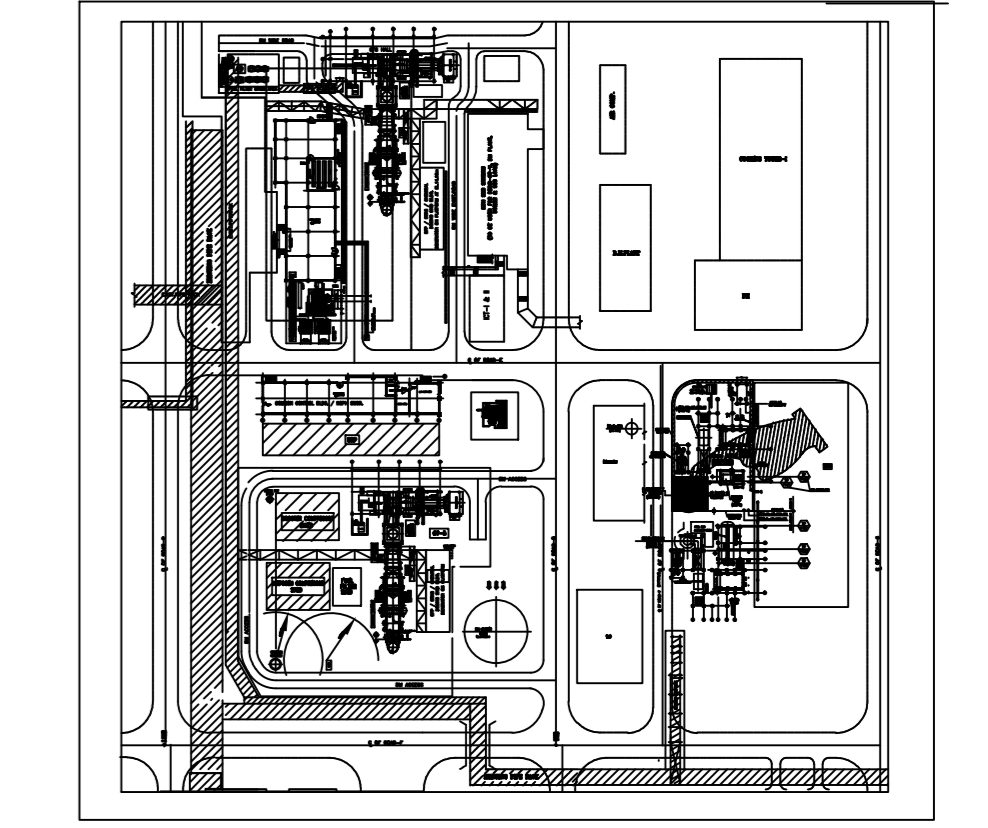
PLAN AT EL(+111.100)
(C/O OF OPENING FOR BOILER 6)



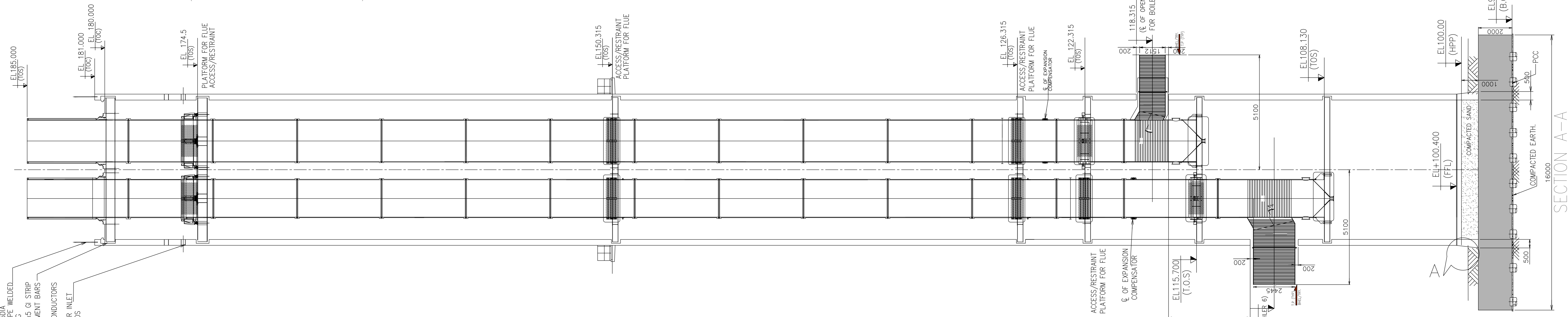
PLAN AT EL(+100.400 (FFL))



TYP DETAIL OF LIGHTNING PROTECTION
{AT EL(+181.000 & EL(+150.315)}

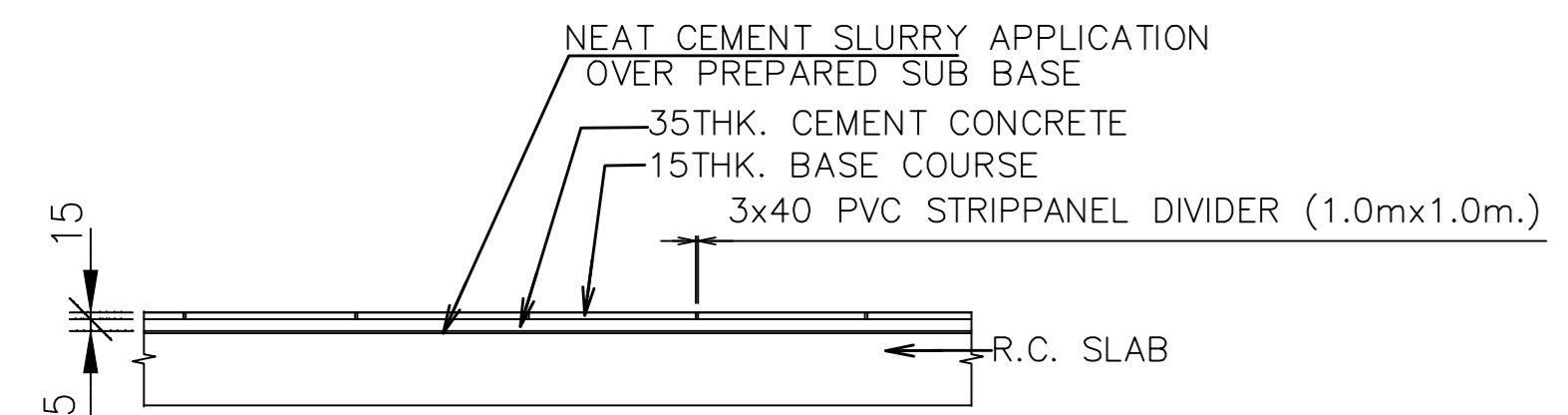


KEY PLAN

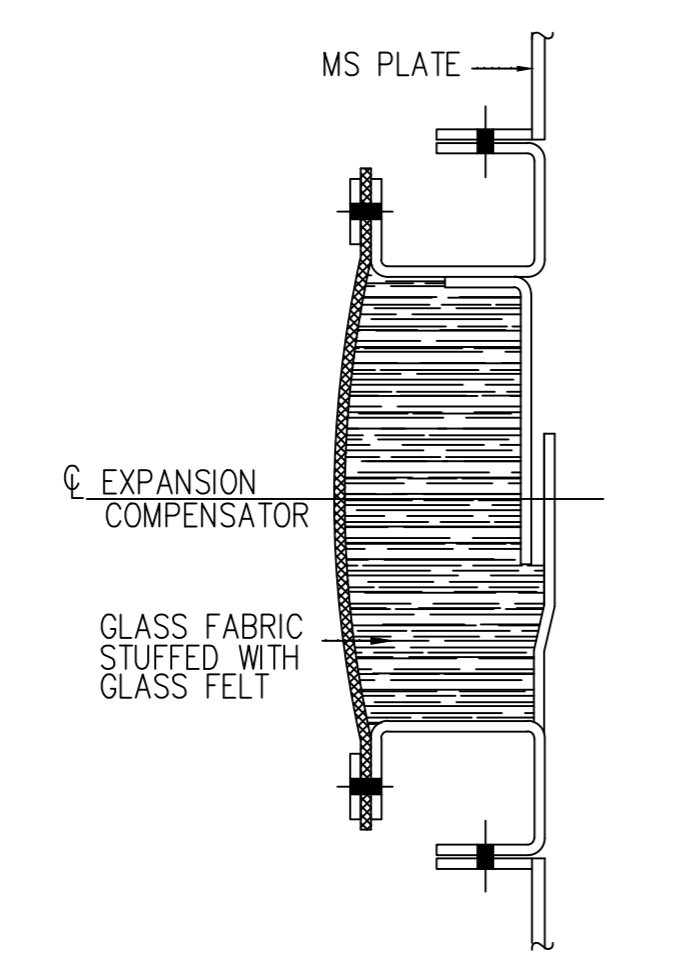


SECTION A-A

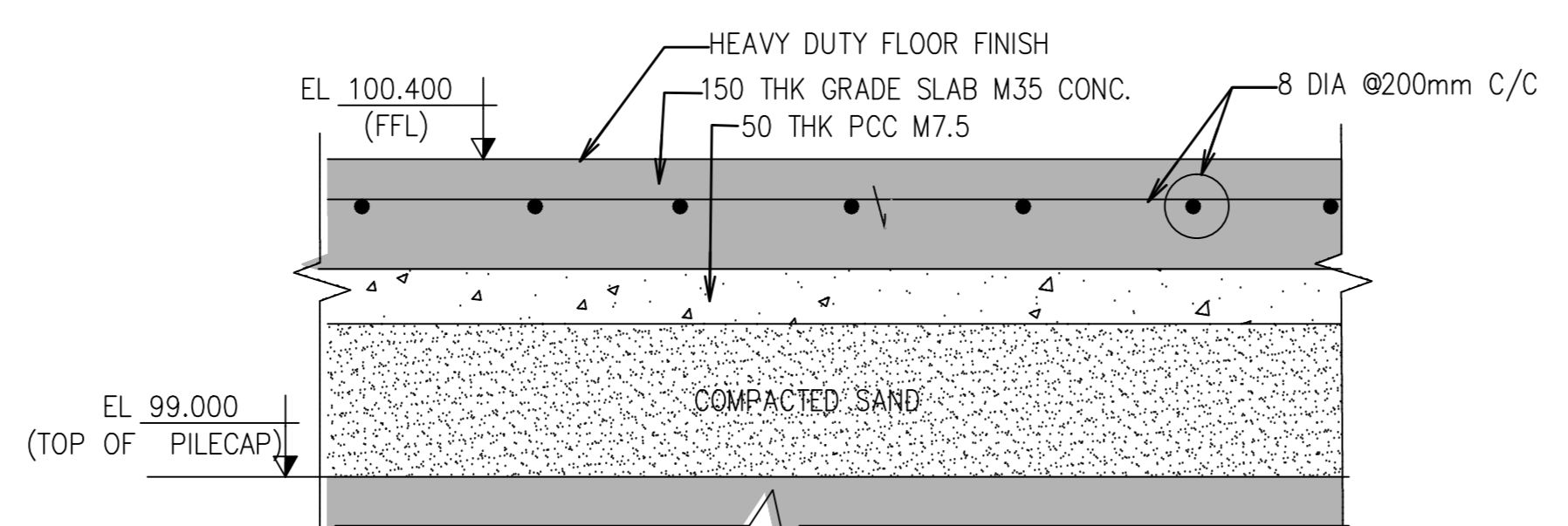
AIR TERMINAL 25DIA 1800 LONG GI PIPE WELDED TO HODDING RING 40x5 GI STRIP AND REINFORCEMENT BARS WELDED TO DOWN CONDUCTORS 30 NOS 300 DIA AIR INLET IN 2 LEVELS (15 NOS IN EACH LEVEL)



TYPICAL DETAILS OF HEAVY DUTY FLOOR FINISH

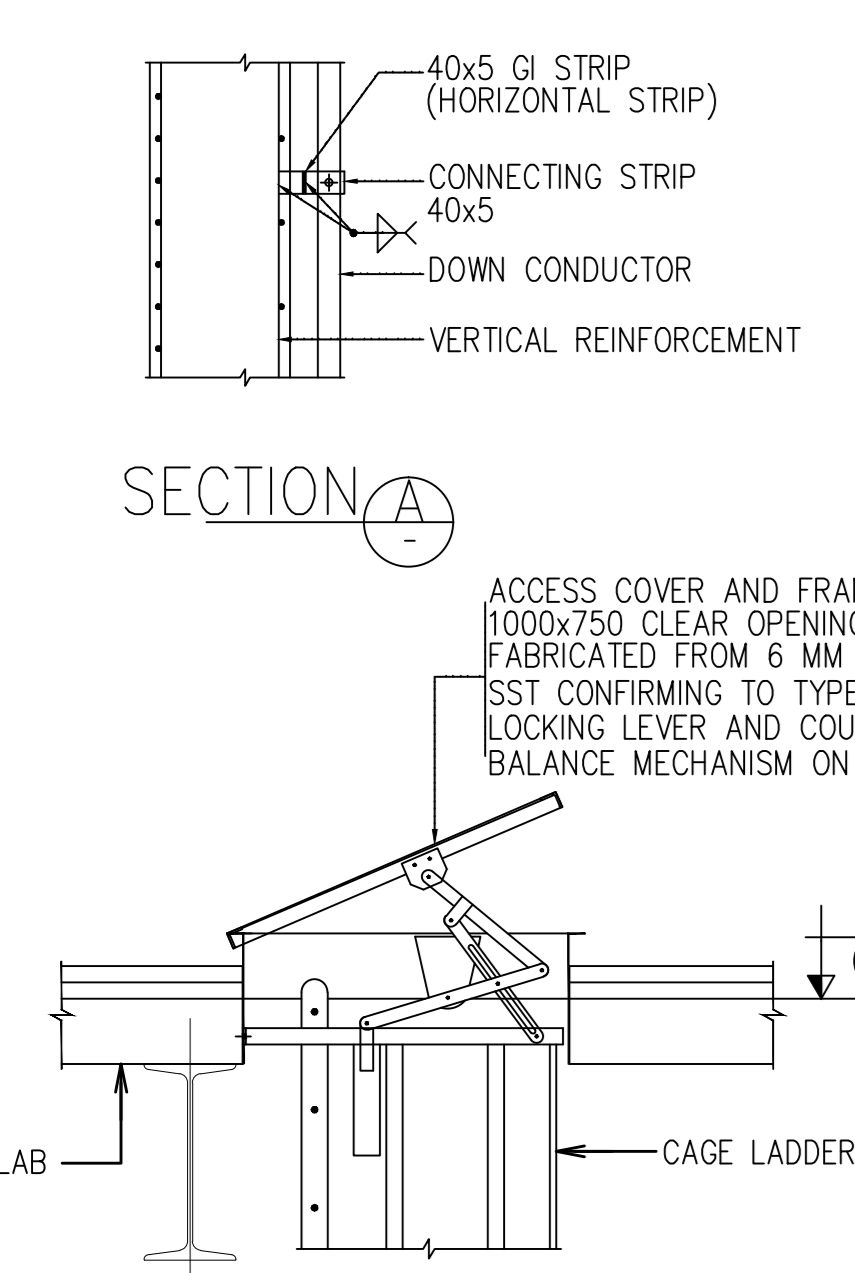


TYP DETAIL AT EXPANSION COMPENSATOR LEVEL

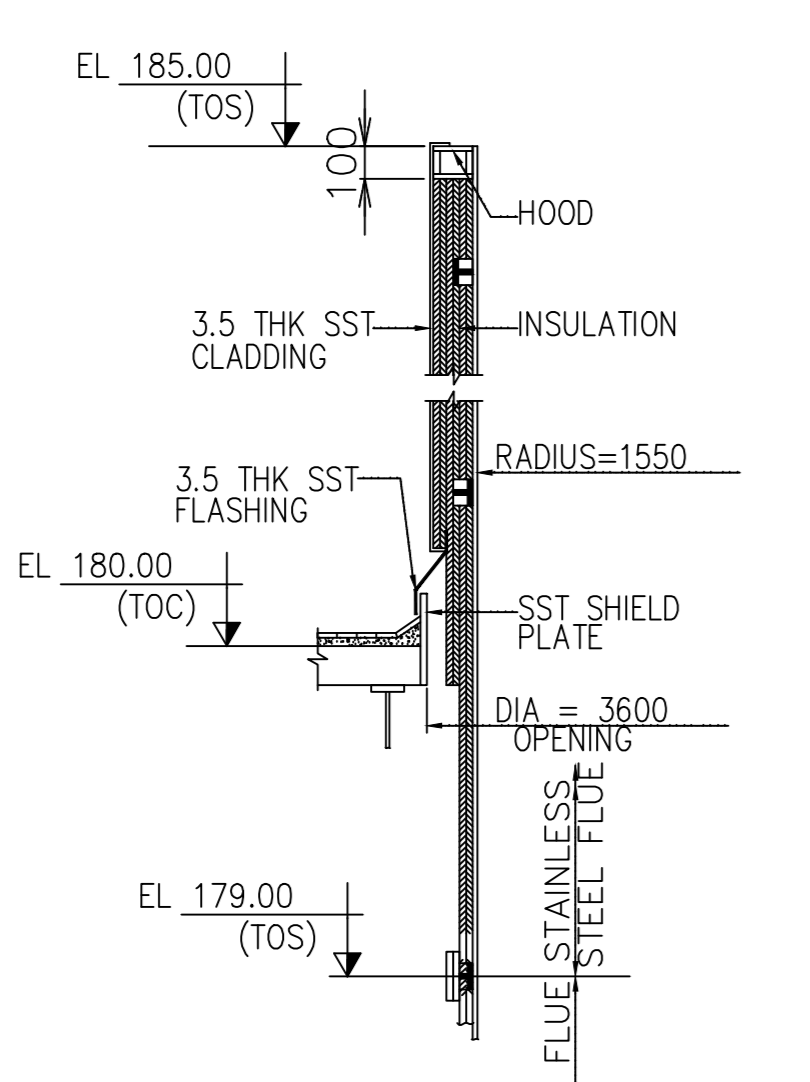


DETAIL A

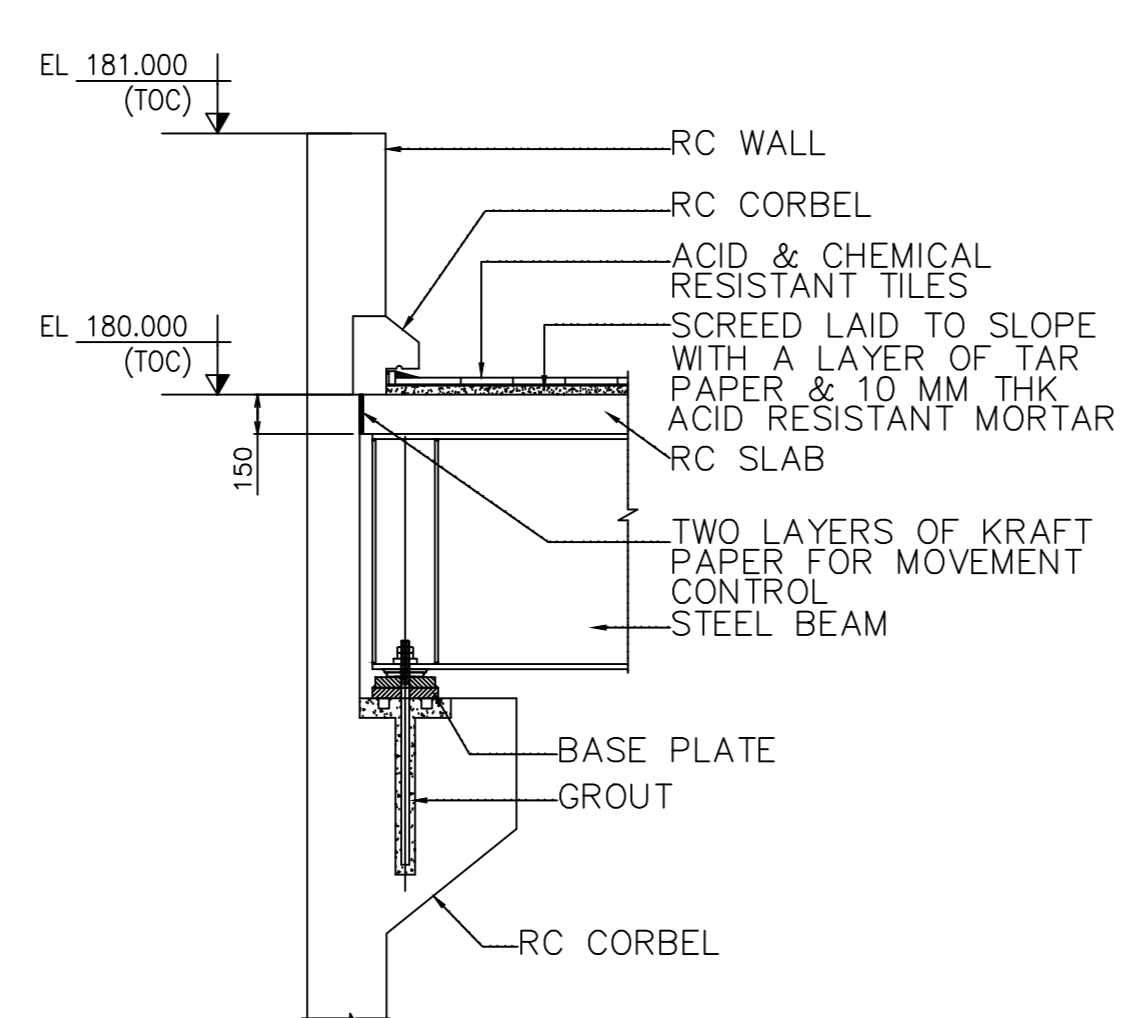
(FOR TENDER PURPOSE ONLY)



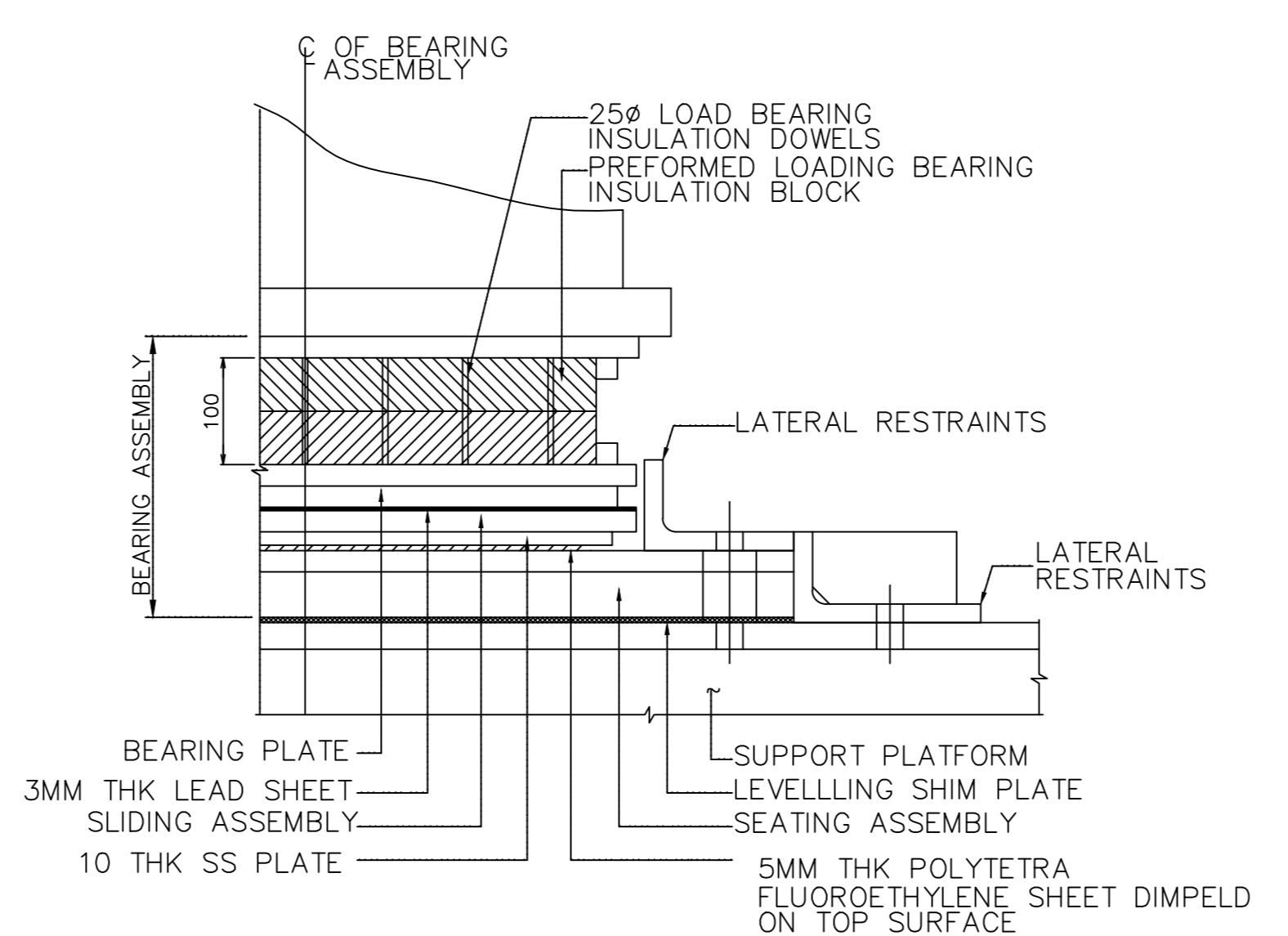
ROOF COVER DETAIL



DETAIL OF FLUE CAN ABOVE ABOVE EL+179.000



TYP DETAIL OF CHIMNEY ROOF SLAB



BEARING ASSEMBLY DETAIL

- GENERAL NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES, UNO.
 - EL(+100.400 REFERS TO FINISHED FLOOR LEVEL WHICH CORRESPONDS TO MSL 3.9M AT SITE EL(+100.000 REFERS TO HPP WHICH CORRESPONDS TO MSL.3.5M AT SITE. EL(+99.600 REFERS TO FGL WHICH CORRESPONDS TO MSL.3.1M AT SITE.
 - ALL R.C.C WORK SHALL BE OF M-35 GRADE (DESIGN MIX) AS PER IS-456, UNO. REINFORCEMENT GRADE Fe 500.
 - CLEAR COVER TO THE MAIN REINFORCEMENT-50mm
 - ALL REINFORCEMENT MARKED "R" SHALL CONFORM TO IS:1786 AND Ø SHALL CONFORM TO IS 432 (PART -I)
 - FOR GENERAL NOTES ON R.C.C WORK REFER DRG. NO: 1-38142-13112.
 - BENDING & FIXING OF REINFORCEMENT SHALL BE AS PER IS 2502.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH TERMS AND CONDITIONS OF THE CONTRACT AND SPECIFICATIONS
 - NO DIMENSIONS FROM THIS DRAWING ARE TO BE SCALED OFF AND ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
 - CHECK ALL DIMENSIONS, CO-ORDINATES & ELEVATIONS IMMEDIATELY, REPORT ANY DISCREPANCIES, CONFLICTS OR ERROR FOR CLARIFICATION PRIOR TO COMMENCING WORK.
 - ACCESS DOOR AND ALL EXPOSED STRUCTURAL STEEL SHALL BE PAINTED AS PER SPECIFICATION
 - OUTER & INNER SURFACE OF CONCRETE SHELL SHALL BE PAINTED AS PER JACOB SPECIFICATION.
 - AVIATION OBSERVATION LIGHTING SHALL BE PROVIDED AS MARKED AS PER SPECIFICATION.
 - THE GALVANISING PROCESS OF ALL STRUCTURAL STEEL PART SHALL BE AS PER SPECIFICATION
 - ELECTRICAL EP FOR EARTHING AND AVIATION LIGHTING SHALL BE FIXED USING ANCHOR FASTENER

DRAWING NO.	TITLE	REMARKS
0-00-512-93635	GENERAL ARRANGEMENT OF BOILER SECTION & ELEVATION.	R01
PECC-00418	CHIMNEY SIZING CALCULATION	R01
0-00-512-93642	BOILER GROUND FLOOR PLAN.	R00
1-38142-13114	GENERAL NOTES FOR ARCHITECTURAL WORKS	R00
1-38142-13113	GENERAL NOTES FOR STRUCTURAL STEEL WORKS	R00
1-38142-13112	GENERAL NOTES FOR CONCRETE WORKS	R00
0-381-01-01577	UB-6 AREA LAYOUT	R02

REV NO	DESCRIPTION	DRN	CHKD.	APPD.	DATE
01	REVISED AS PER CUSTOMER COMMENTS. MARKED Δ	KAINKUN	EC	EC	16.06.15
00	SUBMITTED FOR APPROVAL	KAINKUN	EC	EC	08.05.15

REVISIONS					
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OWNER
CPCL चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड
 (भारतपुर्व : मद्रास रिफाइनरीज लिमिटेड)
Chennai Petroleum Corporation Limited
 (Formerly : Madras Refineries Limited)

PROJECT MANAGEMENT CONSULTANT :
JACOBS JACOBS ENGINEERING INDIA PVT. LTD.
 H-8C HOUSE, PLOT No. 12, SECTOR 11, CENTRAL BUSINESS DISTRICT, BELAPUR, NAVI MUMBAI J. 400 614. TEL. (91-22) 67562000 FAX (91-22) 27573049

LSTK CONTRACTOR :
BHEL BHARAT HEAVY ELECTRICALS LTD.
 HYDERABAD-502032

DATE	SCALE	TITLE :
08.05.15	N.T.S	RCC MULTIFLUE CHIMNEY
	PESD/450	GA & DETAIL (PRELIMINARY)

DRN.BY :	PROJ. :	DWG. NO.	SHT.NO.
KAINKUN	CPCL-RESID	1-38142-13126	01

CHK.BY :	PVD NO. :	REV.NO.
EC	NA	01

APP.BY :	CAD NO. :
PM	N.A