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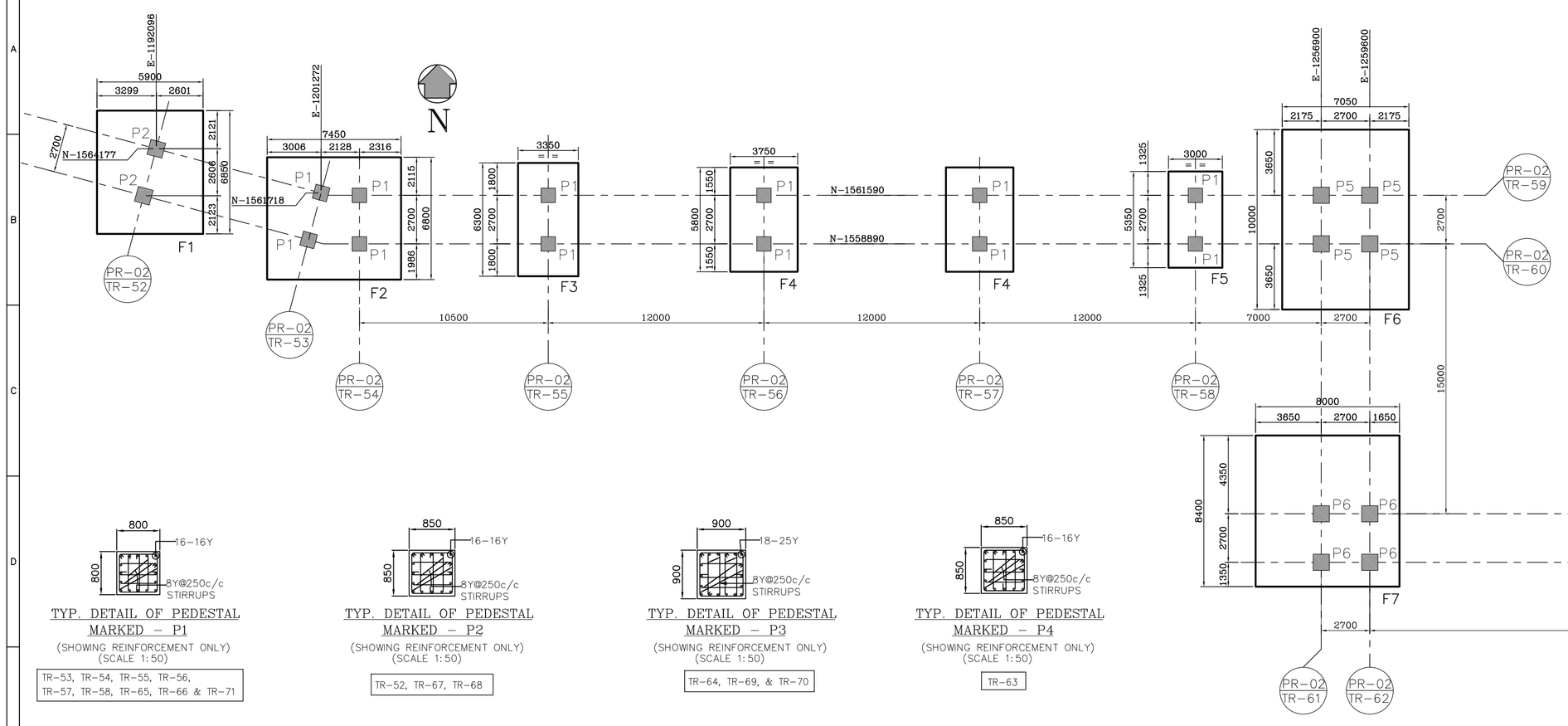
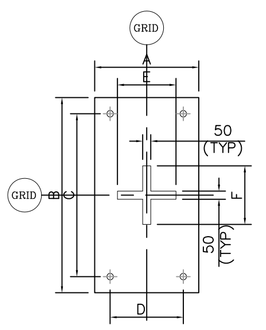
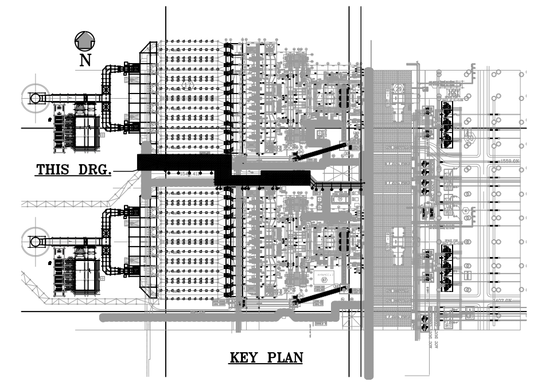


PLAN AT EL(+)8.50M. (T.O.S.)



DETAILS OF SHEAR KEY POCKET
(SHEAR KEY TYPE-I)
(REFER TABLE-B)



TYP. DETAIL OF PEDESTAL MARKED – P1
(SHOWING REINFORCEMENT ONLY)
(SCALE 1:50)

TR-53, TR-54, TR-55, TR-56, TR-57, TR-58, TR-65, TR-66 & TR-71

TYP. DETAIL OF PEDESTAL MARKED – P2
(SHOWING REINFORCEMENT ONLY)
(SCALE 1:50)

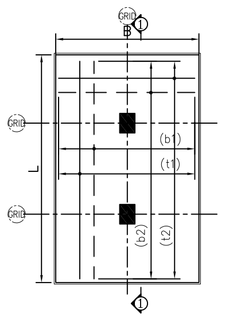
TR-52, TR-67, TR-68

TYP. DETAIL OF PEDESTAL MARKED – P3
(SHOWING REINFORCEMENT ONLY)
(SCALE 1:50)

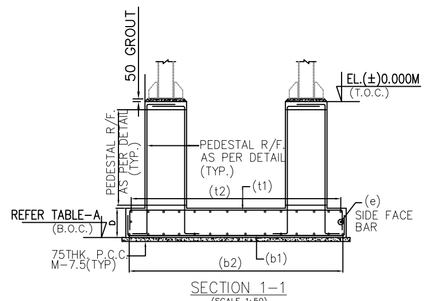
TR-64, TR-69, & TR-70

TYP. DETAIL OF PEDESTAL MARKED – P4
(SHOWING REINFORCEMENT ONLY)
(SCALE 1:50)

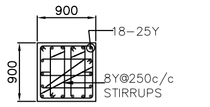
TR-63



TYP. DETAILS OF COMBINED FOOTING

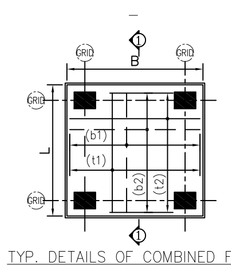


SECTION 1–1
(SCALE 1:50)

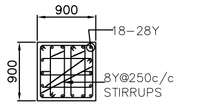


TYP. DETAIL OF PEDESTAL MARKED – P5
(SHOWING REINFORCEMENT ONLY)
(SCALE 1:50)

TR-59, & TR-60



TYP. DETAILS OF COMBINED FOOTING



TYP. DETAIL OF PEDESTAL MARKED – P6
(SHOWING REINFORCEMENT ONLY)
(SCALE 1:50)

TR-61, & TR-62

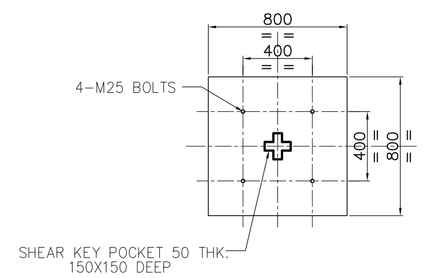
TABLE-A

SCHEDULE OF FOOTING REINFORCEMENT

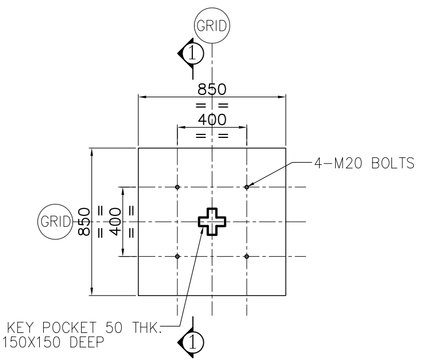
SR. NO.	FOOTING MKD.	FOOTING SIZE L E-W	FOOTING SIZE B N-S	Depth	Along L (E-W) BAR MARKED ' b1' (BOTTOM)	Along L (E-W) BAR MARKED ' t1' (TOP)	Along B (N-S) BAR MARKED ' b2' (BOTTOM)	Along B (N-S) BAR MARKED ' t2' (TOP)	SITE FACE R/F BAR MKD. 'e'	BOTTOM OF CONCRETE
1	F1	5900	6850	350	12 Y 200	10 Y 250	12 Y 200	10 Y 250	-	EL(-)3.500 M.
2	F2	7450	6850	400	12 Y 175	12 Y 175	12 Y 175	12 Y 175	-	EL(-)3.500 M.
3	F3	3350	6300	400	12 Y 175	12 Y 275	12 Y 175	12 Y 275	-	EL(-)3.500 M.
4	F4	3750	5800	350	12 Y 200	10 Y 250	12 Y 200	10 Y 250	-	EL(-)3.500 M.
5	F5	3000	5350	350	12 Y 200	10 Y 250	12 Y 200	10 Y 250	-	EL(-)3.500 M.
6	F6	7050	10000	650	16 Y 150	16 Y 150	16 Y 150	16 Y 150	-	EL(-)3.500 M.
7	F7	8000	8400	650	16 Y 150	16 Y 150	16 Y 150	16 Y 150	-	EL(-)3.500 M.
8	F8	3300	6850	550	16 Y 200	12 Y 200	16 Y 200	12 Y 200	-	EL(-)3.500 M.
9	F9	7300	7300	400	12 Y 175	12 Y 175	12 Y 175	12 Y 175	-	EL(-)3.500 M.
10	F10	3350	5700	350	12 Y 200	12 Y 250	12 Y 200	12 Y 250	-	EL(-)3.500 M.
11	F11	7500	9050	500	16 Y 225	16 Y 225	16 Y 225	16 Y 225	-	EL(-)3.500 M.

TABLE-B

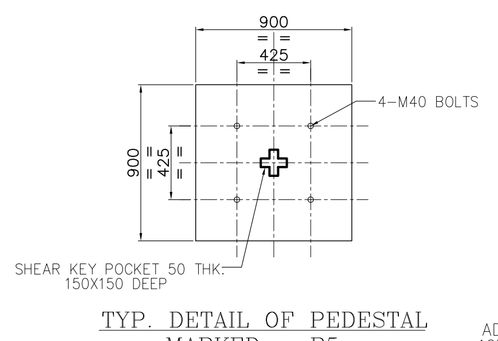
Column / Pedestal Mkd.	Size of pedestal (mm) Width (B) (N-S)	Size of pedestal (mm) Length (A) (E-W)	Foundation Bolt Details No. of Bolts (N)	Foundation Bolt Details Dia. of Bolts (Φ)	Shear Key Pocket Details C mm	Shear Key Pocket Details D mm	Shear Key Pocket Details E	Shear Key Pocket Details F	Shear Key Pocket Details d	Shear Key Pocket Details Type	Top Of Pedestal (T.O.C.)
P1	800	800	4	25	400	400.0	150	150	150	+ Type	EL 0.00
P2	850	850	4	32	400	400.0	150	150	150	+ Type	EL 0.00
P3	900	900	4	36	420	420.0	150	150	150	+ Type	EL 0.00
P4	850	850	4	20	400	400.0	150	150	150	+ Type	EL 0.00
P5	900	900	4	40	425	425.0	150	150	150	+ Type	EL 0.00
P6	900	900	4	52	470	470.0	150	150	150	+ Type	EL 0.00



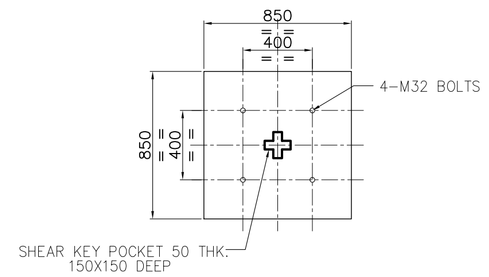
TYP. DETAIL OF PEDESTAL MARKED – P1
(SCALE 1:25)



TYP. DETAIL OF PEDESTAL MARKED – P4
(SCALE 1:25)



TYP. DETAIL OF PEDESTAL MARKED – P5
(SCALE 1:25)



TYP. DETAIL OF PEDESTAL MARKED – P2
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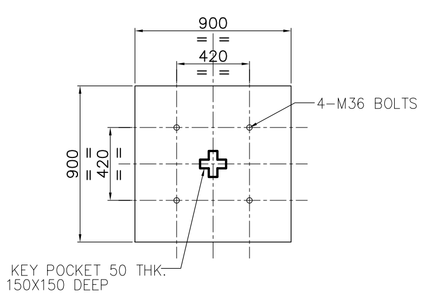
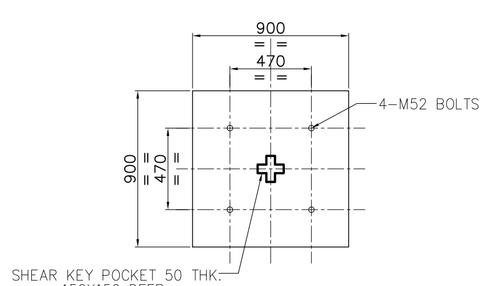
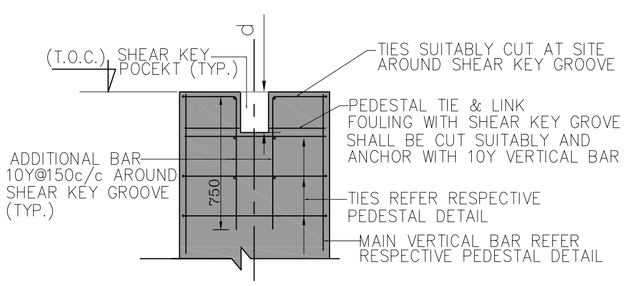


TYP. DETAIL OF PEDESTAL MARKED – P3
(SCALE 1:25)



TYP. DETAIL OF PEDESTAL MARKED – P6
(SCALE 1:25)



(I–TYPE SHEAR KEY)
DETAIL SHOWING REINF. DET. AROUND SHEAR KEY
(SCALE 1:25)

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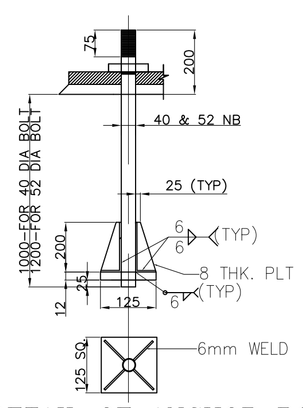
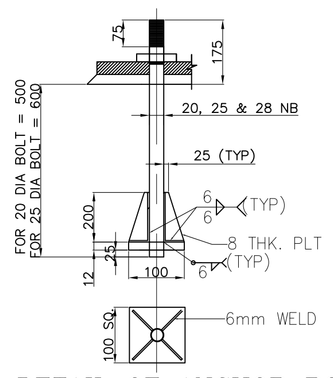
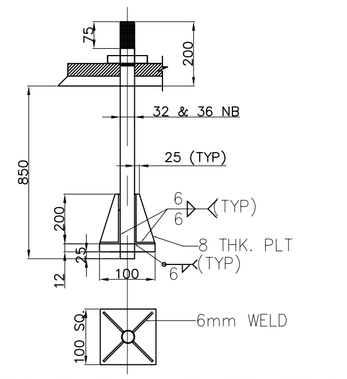


TYP DETAIL OF ANCHOR BOLT FOR 40 & 52 DIA NB



TYP DETAIL OF ANCHOR BOLT FOR 20 & 28 DIA NB



TYP DETAIL OF ANCHOR BOLT FOR 32 & 36 DIA NB

NOTES:–

1. ALL DIMENSIONS ARE IN MILLIMETERS, CO-ORDINATES & LEVELS IN METERS.
2. ALL ELEVATIONS ARE REFERRED TO FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AT EL(±)0.00 WHICH CORRESPONDS TO RL (+)375.50M. ABOVE MSL.
3. ALL STRUCTURAL CONCRETE SHALL BE OF GRADE M–25 UNLESS OTHERWISE NOTED.
4. ALL REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS Fe500D/Fe500 CONFIRMING TO IS:1786 (LATEST).
5. NET SAFE BEARING CAPACITY IS CONSIDERED AS 30 T/SQM AT EL(–)3.50M LEVEL.
6. FOR CLEAR COVER TO OUTERMOST REINFORCEMENT (INCLUDING TIES) REFER STANDARD DRG NO. 9585–001–315–PVC–C–0451B.
7. BACK FILLING SHALL HAVE TO BE DONE ENSURING PROPER COMPACTION AND AS PER SPECIFICATION USING EARTH SOIL. BACK FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300 MM. AND EACH LAYER TO BE COMPACTED SO AS TO ACHIEVE ATLEAST 90% COMPACTION AS PER STANDARD PROCTOR DENSITY TEST.
8. BOTTOM 300MM EXCAVATION TO BE DONE CAREFULLY TO AVOID OVER EXCAVATION AND PCC TO BE DONE IMMEDIATELY AFTER EXCAVATION AND COMPACTION.
9. QUANTITIES INDICATED IN BILL OF MATERIALS ARE APPROXIMATE AND DO NOT INCLUDE FOR SPLICING & WASTAGES.
10. FOR ALL OTHER NOTES GRADE OF STEEL REFER DRG. NO. 9585–001–315–PVC–C–0089A

ENGINEERING REFERENCE DRAWING:

1. PE–DG–434–100–M001 – PLOT PLAN(R4) (9585–001–999–POC–F–001)
2. PE–DG–434–100–M053–R2 – YARD PIPING & TRESTLE LAYOUT 2 (PR–02 – AREA NEAR BOILER, ESP UNIT–2, GYPSUM AND LIMESTONE BUILDING.)

CONSTRUCTION REFERENCE DRAWING:

1. PE–DG–434–675–C014 R0 – PIPE RACK PR–2/ BOP AREA – STRUCTURAL LAYOUT & DETAILS (9585–001–315–PVC–C–1463)
2. PE–DG–434–675–C015 R0 – PIPE RACK PR–2/ BOP AREA – STRUCTURAL ELEVATION & DETAILS (9585–001–315–PVC–C–1464)

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BILL OF MATERIAL:–

SL.NO.	ITEM	UNIT	WT. (MT)
1	RCC (M25)	Cu.M	325
2	PCC	Cu.M	28
3	REINFORCEMENT		
	8MM TMT	MT	2.08
	10MM TMT	MT	0.84
	12MM TMT	MT	5.70
	16MM TMT	MT	12.36
	25MM TMT	MT	2.71
	28MM TMT	MT	1.78
	TOTAL		25.45 T

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CUSTOMER	PATRATU VIDYUT UTPADAN NIGAM LIMITED (A SUBSIDIARY OF NTPC LTD)

3x800MW PATRATU SUPER THERMAL POWER PROJECT

JOB NO. 434
STATUS CONTRACT
PRINT SCALE IN METRE 0 2 4 6 8 10 20 30 40 50

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	DESN	SWAYAM	–sd–	02.03.2020
	CHD	ABHAY KUMAR	–sd–	02.03.2020
	APPD	S. PANDIT	–sd–	02.03.2020

TITLE

PIPE RACK PR–2/ BOP AREA – GA & RC DETAILS

MPL	ELEC	C&I	MSE	MAX	DEPT. SIGN DATE	SCALE 1:25	DRAWING NO. **PE–DG–434–675–C013**
							SHEET 1 OF 1 REV. 0

SIZE–A0

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