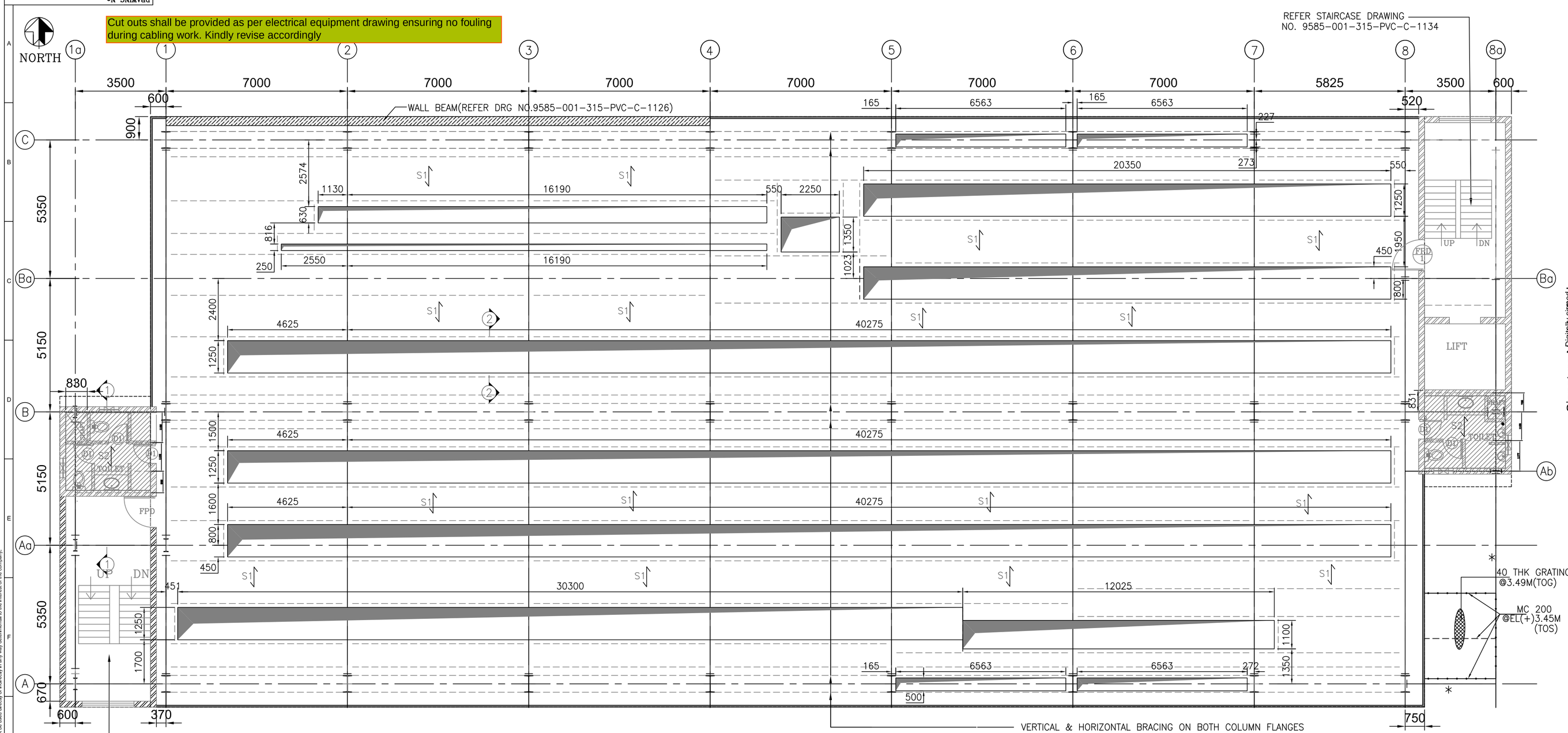
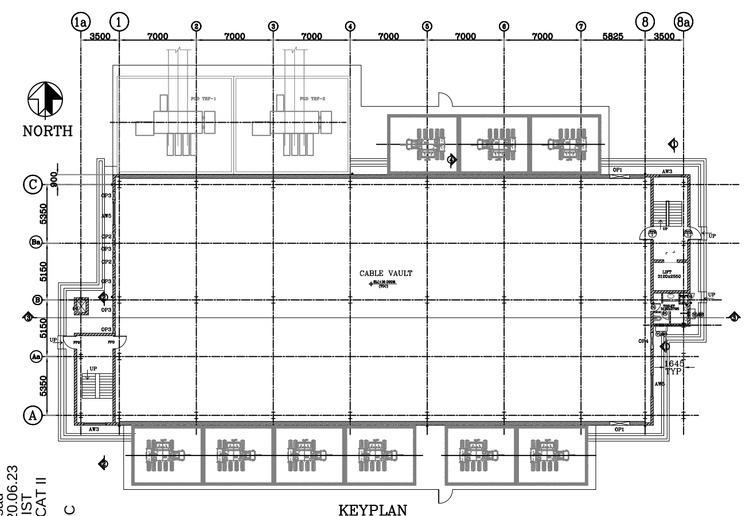
Cut outs shall be provided as per electrical equipment drawing ensuring no fouling during cabling work. Kindly revise accordingly




PLAN AT EL(+)3.450M. (T.O.C.)
UNIT–1 & 3




indicate all electrical drawing as reference drawing

Signature Not Verified
Digitally signed by PRASHANT
Date: 2020.06.23 15:45:35 IST
Reason: CAT II
Location: NTPCEOC

NOTE:–

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, TECHNICAL SPECIFICATIONS AND SCHEDULE OF ITEMS.
2. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
3. ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AS EL. 0.00 M WHICH CORRESPONDS TO RL.(+) 375.50 M.
4. FOR OTHER NOTES AND STD. DETAILS REF. DRG. PE–DG–434–600–C001 (NTPC DRG NO. 4410–001–315–PGC–C–0451).
5. REINFORCEMENT USED AT SITE SHALL BE GRADE FE–500/FE500D CONFORMING TO IS:1786
6. COVER TO MAIN REINF. SHALL BE AS FOLLOWS:–

| ITEM | TOP | BOTTOM | SIDE |
|---|---|---|---|
| A) SLABS | 20 | 20 | 30 |

7. ALL HOOKS, BENDS AND LAPS OF REINFORCEMENT BARS SHALL CONFORM TO IS: 2502 – (LATEST REVISION) UNLESS OTHERWISE NOTED.
8. REINFORCEMENTS MAY SUITABLY BE ADJUSTED AT SITE, IF REQUIRED, TO CLEAR POCKETS, ANCHOR BOLTS ETC.
9. DESIGN OF METAL DECK TO BE SUBMITTED BY SUPPLIER FOR LOADS SPECIFIED IN THE DRAWING. DESIGN SHALL BE APPROVED BY BHEL / NTPC BEFORE LAYING AT SITE.
10. GRADE OF CONCRETE SHALL BE M25.
11. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL NOTES FOR STRUCTURAL STEEL WORKS PE–DG–434–600–C004 (9585–001–315–PVC–C–0089A).

ENGINEERING REFERENCE DRAWINGS :–

1. PE–DG–434–619–C007–ESP CONTROL BUILDING––GA & RC DETAIL OF FOUNDATION,PEDESTAL & PLINTH BEAM(UNIT–1 & 3) (9585–001–315–PVC–C–1121)
2. PE–DG–434–619–C008–ESP CONTROL BLDG–UNIT 1 & 3–LAYOUT AND DETAILS OF BASE PLATE. (9585–001–315–PVC–C–1122)
3. PE–DG–434–619–C009–ESP CONTROL BLDG. 1 & 3–STRUCTURAL FRAMING UNIT–1&3 (9585–001–315–PVC–C–1123)
4. PE–DG–434–619–C012–ESP CONTROL BLDG. 1 & 3–FIRST FLOOR FRAMING DETAILS UNIT–1,2&3 (9585–001–315–PVC–C–1130A)

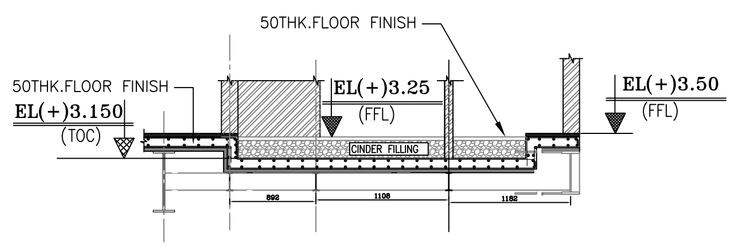
ARCHITECTURAL DRAWING

1. PE–DG–434–619–C001–ESP CONTROL BUILDING–UNIT 1,2& 3–ARCHITECTURAL PLANS (9585–001–315–PVC–C–1137)
2. PE–DG–434–619–C002–ESP CONTROL BUILDING–UNIT 1,2& 3–ARCHITECTURAL PLANS (9585–001–315–PVC–C–1138)
3. PE–DG–434–619–C003–ESP CONTROL BUILDING–UNIT 1,2& 3–ARCHITECTURAL ELEVATIONS (9585–001–315–PVC–C–1139)
4. PE–DG–434–619–C003–ESP CONTROL BUILDING–UNIT 1,2& 3–ARCHITECTURAL ELEVATIONS (9585–001–315–PVC–C–1139)

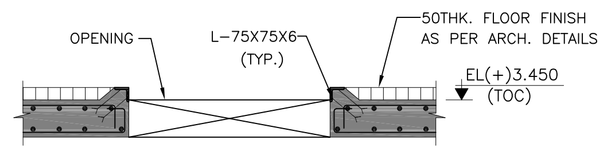
LEGEND:
1. TOS = TOP OF STEEL
2. BOS = BOTTOM OF STEEL
3. TYP. = TYPICAL
4. UNO = UNLESS NOTED OTHERWISE
5. B/S = BOTH SIDE
6. THK. = THICK
7. PLT. = PLATE

BILL OF QUANTITIES
FOR UNIT–1&3 EACH(APPROX.)

| SL.NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|
| 1 | RCC (M25) | Cu.M | 166.00 |
| | | | |
| 2 | REINFORCEMENT | | |
| | 8Y | MT | 11.5 |




SECTION 1–1



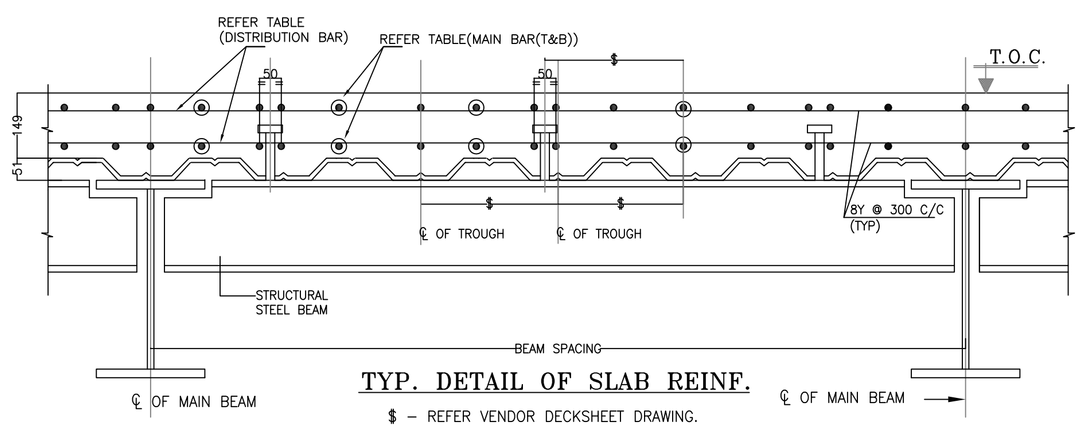

TYP.DETAIL OF OPENING
(FOR DETAIL OF EDGE PROTECTION AROUND OPENING REF. DWG. NO.#–600–C001, DETAIL S IN D–08)

SECTION 2–2

TABLE–A

GRADE OF CONC. M25 & REINFT–Fe 500

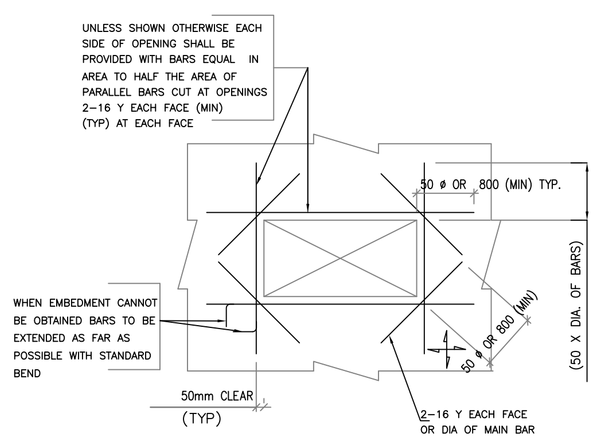
| SL.NO | PANEL MKD. | SPANING DIRECTION OF PANEL MKD. | R/F IN SHORTER DIR(T&B). | R/F IN LONGER DIR. | SLAB MKD AS |
|---|---|---|---|---|---|
| 1 | S1 | A — B | 8 Y 150 | 8 Y 300 | UNLESS OTHER–WISE NOTED. |
| 2 | S2 | TOILET AREA | 8 Y 300 | 8 Y 300 | |




TYP. DETAIL OF SLAB REINF.

$ – REFER VENDOR DECKSHEET DRAWING.

UNFACTORED LOAD ON METAL DECK SHEET DURING CONSTRUCTION TO BE CONSIDERED FOR DESIGN=550KG/SQ.MTR (DEAD LOAD + CONSTRUCTION LOAD)




TYP. DETAIL OF REINFORCEMENT AROUND OPENINGS FOR SQUARE & RECTANGULAR OPNG.
(200x200 MIN. AND 1000x1500 MAX.)

| BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL) | |
|---|---|
| THIS DRAWING MARKED (✓) IS RELEASED FOR | |
| ☐ COMMENTS/APPROVAL | ☐ FABRICATION |
| ☐ PLANNING | ☐ INFORMATION |
| ☑ CONSTRUCTION | |
| STAMP ALL PREVIOUS REVISION AS SUPERSEDED | |
| ISSUED BY | |
| NAME | ABHAY KUMAR |
| SIGNATURE | Fw |
| DATE | 23/07/2020 |

| BHEL–PROJECT ENGINEERING MANAGEMENT(CIVIL) | |
|---|---|
| THIS DRAWING MARKED(✓) IS RELEASED FOR | |
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| ☐ PLANNING/INFORMATION | |
| ☐ CONSTRUCTION | |
| STAMP ALL PREVIOUS REVISION AS SUPERSEDED | |
| ISSUED BY | |
| NAME | ABHAY KUMAR |
| SIGNATURE | –Sd– |
| DATE | 04/06/2020 |

NTPC DWG. NO. 9585–001–315–PVC–C–1130B SHT–1

CUSTOMER
एन टी पी सी NTPC
NTPC LIMITED

3X800MW PATRATU SUPER THERMAL POWER PROJECT

| REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

JOB NO. 434
STATUS
DISTRIBUTION

BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA

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| DEPT CODE | | NAME | SIGN | DATE |
|---|---|---|---|---|
| C | DRN | ST | –SD– | 04.06.2020 |
| | DSGN | ANSHU | –SD– | 04.06.2020 |
| | CHD | ABHAY | –SD– | 04.06.2020 |
| | APPD | SP | –SD– | 04.06.2020 |

TITLE
ESP CONTROL BUILDING
G.A & R.C. DETAILS OF FIRST FLOOR SLAB – UNIT – 1 & 3

DEPT. SIGN | SCALE 1:100 | DRAWING NO. PE–DG–434–619–C015 | SHEET 1 OF 2 | REV. R0

SIZE–A0

COMPUTER FILE NAME:

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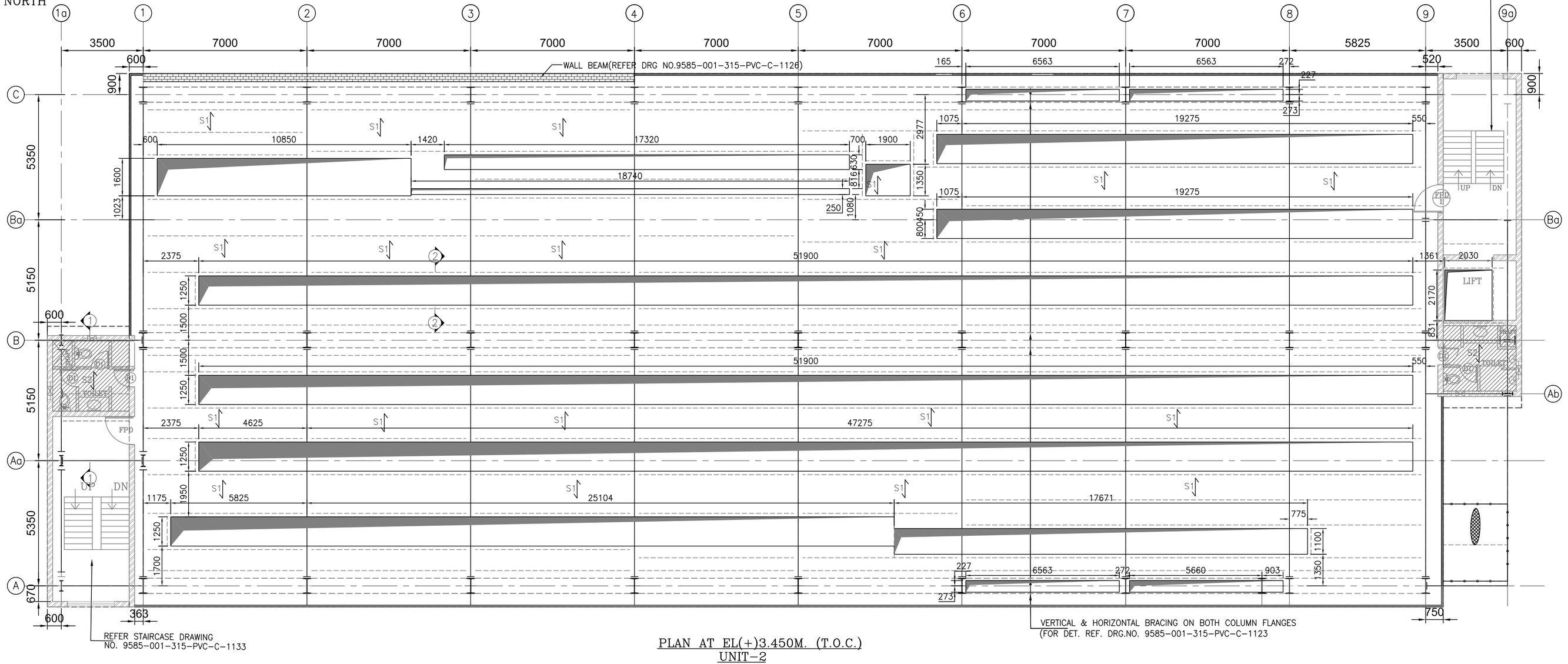
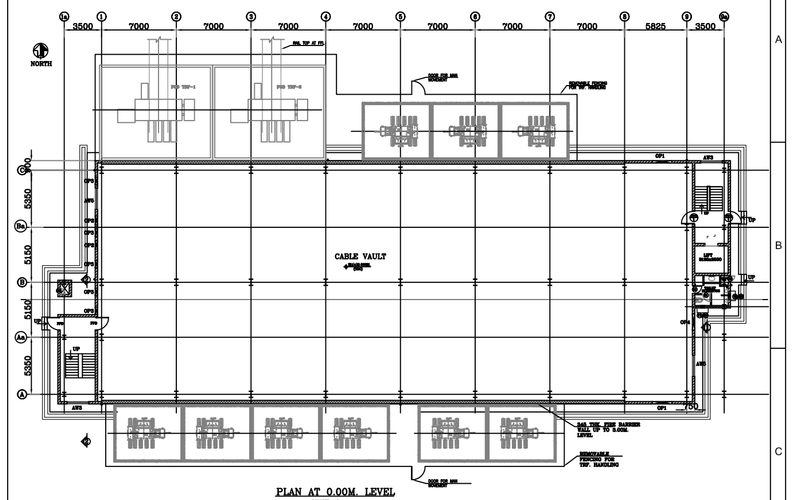
NORTH




PLAN AT EL(+)3.450M. (T.O.C.)
UNIT-2




## NOTE:-

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, TECHNICAL SPECIFICATIONS AND SCHEDULE OF ITEMS.
2. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
3. ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AS EL. 0.00 M WHICH CORRESPONDS TO RL.(+) 375.50 M.
4. FOR OTHER NOTES AND STD. DETAILS REF. DRG. PE-DG-434-600-C001 (NTPC DRG NO. 4410-001-315-PGC-C-0451).
5. REINFORCEMENT USED AT SITE SHALL BE GRADE FE-500/FE500D CONFORMING TO IS:1786
6. COVER TO MAIN REINF. SHALL BE AS FOLLOWS:-

| ITEM | TOP | BOTTOM | SIDE |
|---|---|---|---|
| A) SLABS | 20 | 20 | 30 |

7. ALL HOOKS, BENDS AND LAPS OF REINFORCEMENT BARS SHALL CONFORM TO IS: 2502 – (LATEST REVISION) UNLESS OTHERWISE NOTED.
8. REINFORCEMENTS MAY SUITABLY BE ADJUSTED AT SITE, IF REQUIRED, TO CLEAR POCKETS, ANCHOR BOLTS ETC.
9. DESIGN OF METAL DECK TO BE SUBMITTED BY SUPPLIER FOR LOADS SPECIFIED IN THE DRAWING. DESIGN SHALL BE APPROVED BY BHEL / NTPC BEFORE LAYING AT SITE.
10. GRADE OF CONCRETE SHALL BE M25.
11. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL NOTES FOR STRUCTURAL STEEL WORKS PE-DG-434-600-C004 (9585-001-315-PVC-C-0089A).

## ENGINEERING REFERENCE DRAWINGS :-

1. PE-DG-434-619-C007-ESP CONTROL BUILDING--GA & RC DETAIL OF FOUNDATION,PEDESTAL & PLINTH BEAM(UNIT-1 & 3) (9585-001-315-PVC-C-1121)
2. PE-DG-434-619-C008-ESP CONTROL BLDG-UNIT 1 & 3-LAYOUT AND DETAILS OF BASE PLATE. (9585-001-315-PVC-C-1122)
3. PE-DG-434-619-C009-ESP CONTROL BLDG. 1 & 3-STRUCTURAL FRAMING UNIT-1&3 (9585-001-315-PVC-C-1123)
4. PE-DG-434-619-C012-ESP CONTROL BLDG. 1 & 3-FIRST FLOOR FRAMING DETAILS UNIT-1,2&3 (9585-001-315-PVC-C-1130A-SH-2)

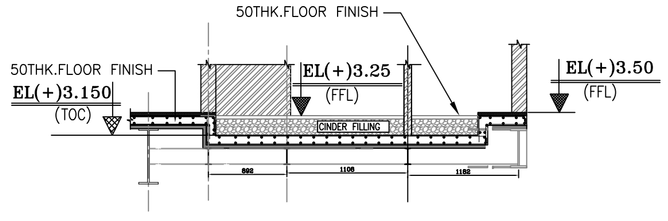
## ARCHITECTURAL DRAWING

1. PE-DG-434-619-C001-ESP CONTROL BUILDING-UNIT 1,2& 3-ARCHITECTURAL PLANS (9585-001-315-PVC-C-1137)
2. PE-DG-434-619-C002-ESP CONTROL BUILDING-UNIT 1,2& 3-ARCHITECTURAL PLANS (9585-001-315-PVC-C-1138)
3. PE-DG-434-619-C003-ESP CONTROL BUILDING-UNIT 1,2& 3-ARCHITECTURAL ELEVATIONS (9585-001-315-PVC-C-1139)
4. PE-DG-434-619-C003-ESP CONTROL BUILDING-UNIT 1,2& 3-ARCHITECTURAL ELEVATIONS (9585-001-315-PVC-C-1139)

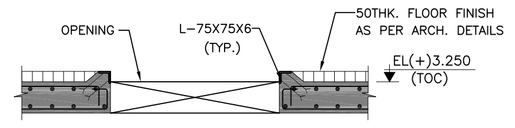
LEGEND:
1. TOS = TOP OF STEEL
2. BOS = BOTTOM OF STEEL
3. TYP. = TYPICAL
4. UNO = UNLESS NOTED OTHERWISE
5. B/S = BOTH SIDE
6. THK. = THICK
7. PLT. = PLATE

## BILL OF QUANTITIES FOR UNIT-2(APPROX.)

| SL.NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|
| 1 | RCC (M25) | Cu.M | 180.00 |
| | | | |
| 2 | REINFORCEMENT | | |
| | 8Y | MT | 12.5 |




SECTION 1-1

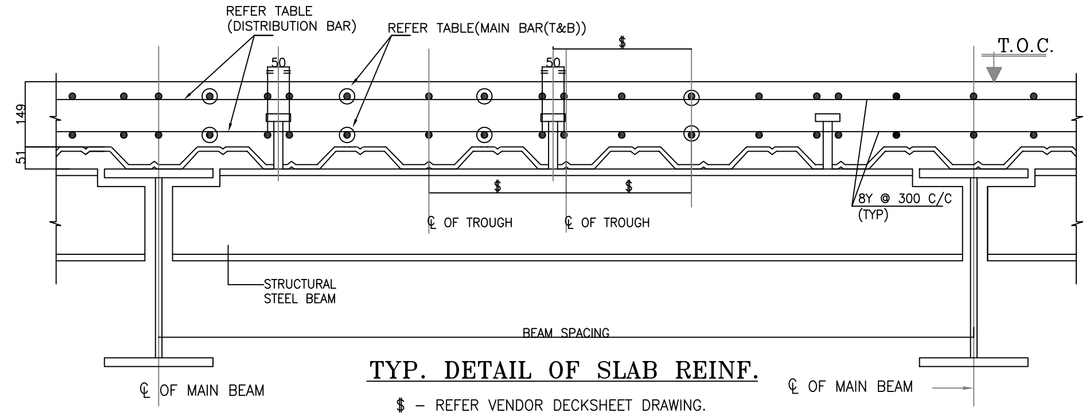



TYP.DETAIL OF OPENING
(FOR DETAIL OF EDGE PROTECTION AROUND OPENING REF. DWG. NO.#-600-C001, DETAIL S IN D-08)

SECTION 1-1

TABLE-A

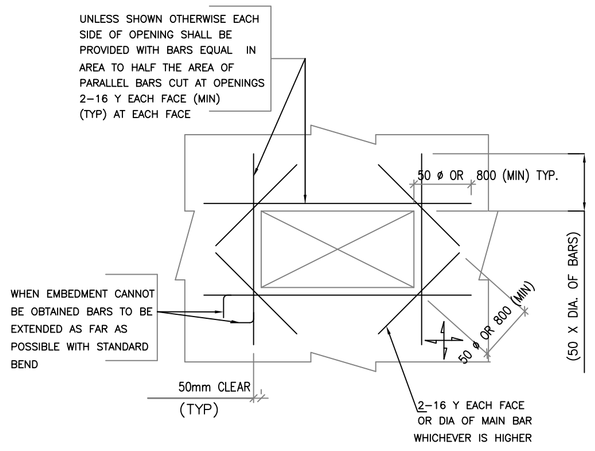
| GRADE OF CONC. M25 & REINFT-Fe 500 | | | | | |
|---|---|---|---|---|---|
| SL.NO | PANEL MKD. | SPANING DIRECTION OF PANEL MKD. | R/F IN SHORTER DIR(T&B). | R/F IN LONGER DIR. | SLAB MKD AS |
| 1 | S1 | A — B | 8 Y 150 | 8 Y 300 | UNLESS OTHER-WISE NOTED. |
| 2 | S2 | TOILET AREA | 8 Y 300 | 8 Y 300 | |




TYP. DETAIL OF SLAB REINF.

$ – REFER VENDOR DECKSHEET DRAWING.

UNFACTORED LOAD ON METAL DECK SHEET DURING CONSTRUCTION TO BE CONSIDERED FOR DESIGN=550KG/SQ.MTR (DEAD LOAD + CONSTRUCTION LOAD)




TYP. DETAIL OF REINFORCEMENT AROUND OPENINGS FOR SQUARE & RECTANGULAR OPNG.
(200x200 MIN. AND 1000x1500 MAX.)

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)
THIS DRAWING MARKED (✓) IS RELEASED FOR
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☐ PLANNING ☐ INFORMATION
☑ CONSTRUCTION
STAMP ALL PREVIOUS REVISION AS SUPERSEDED
ISSUED BY

| | |
|---|---|
| NAME | ABHAY KUMAR |
| SIGNATURE | For |
| DATE | 23/07/2020 |

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)
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ISSUED BY

| | |
|---|---|
| NAME | ABHAY KUMAR |
| SIGNATURE | -Sd- |
| DATE | 04.06.2020 |

NTPC DWG. NO. 9585-001-315-PVC-C-1130B SHT-2

CUSTOMER
NTPC LIMITED

3X800MW PATRATU SUPER THERMAL POWER PROJECT

JOB NO. 434
STATUS
DISTRIBUTION

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POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
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|---|---|---|---|---|
| C | | | | |

| DEPT CODE | NAME | SIGN | DATE |
|---|---|---|---|
| DRN | HANTA | -SD- | 04.06.2020 |
| DSGN | ANSHU | -SD- | 04.06.2020 |
| CHD | ABHAY | -SD- | 04.06.2020 |
| APPD | SP | -SD- | 04.06.2020 |

TITLE: ESP CONTROL BUILDING
FIRST FLOOR FRAMING DETAILS UNIT-2

DEPT. SCALE 1:100
SIGN

DRAWING NO. PE-DG-434-619-C015
SHEET 2 OF 2 REV. R0

SIZE-A0

COMPUTER FILE NAME: