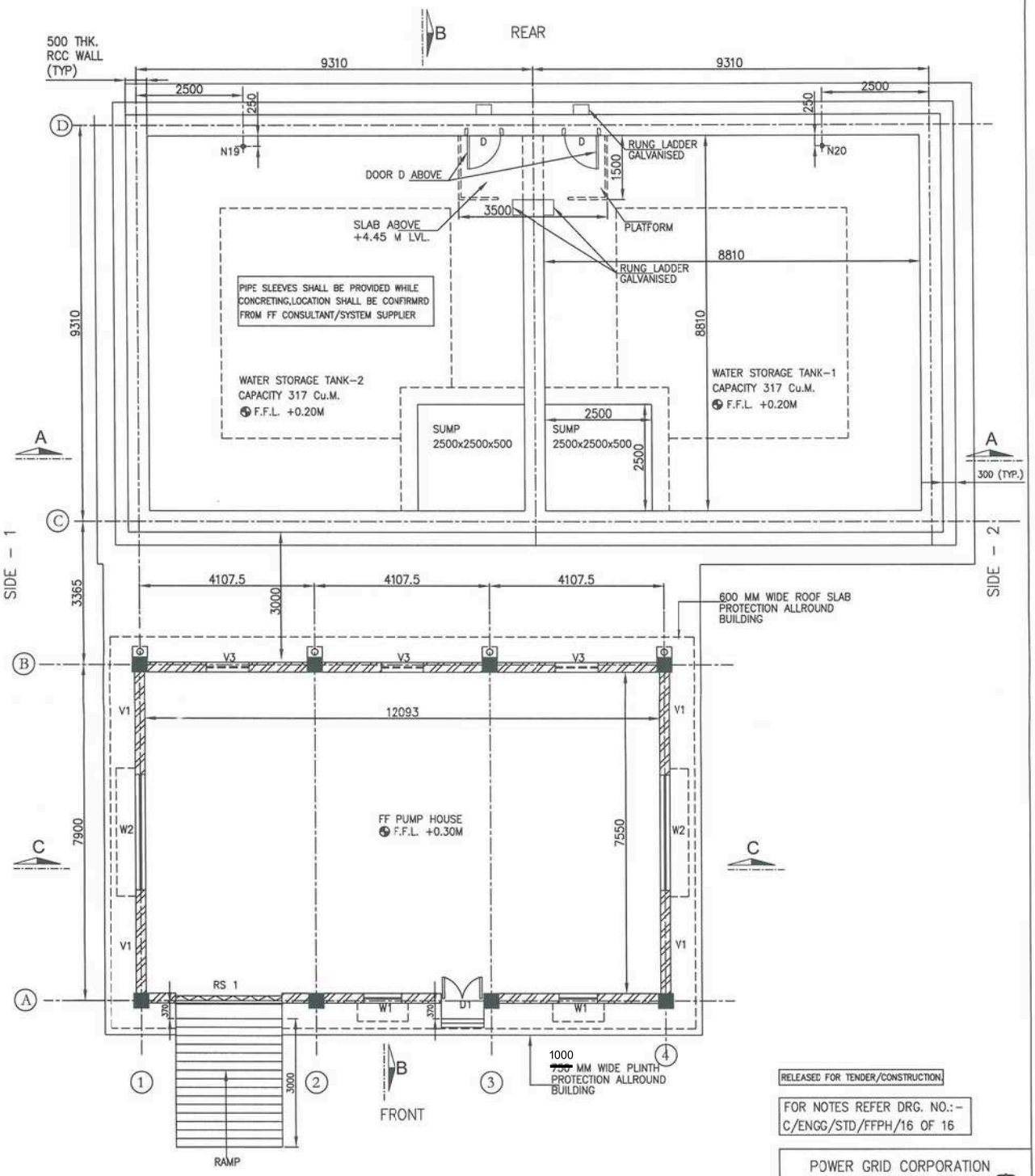


GROUND FLOOR PLAN FOR FFPH & WATER TANK

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:-
C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE:
STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

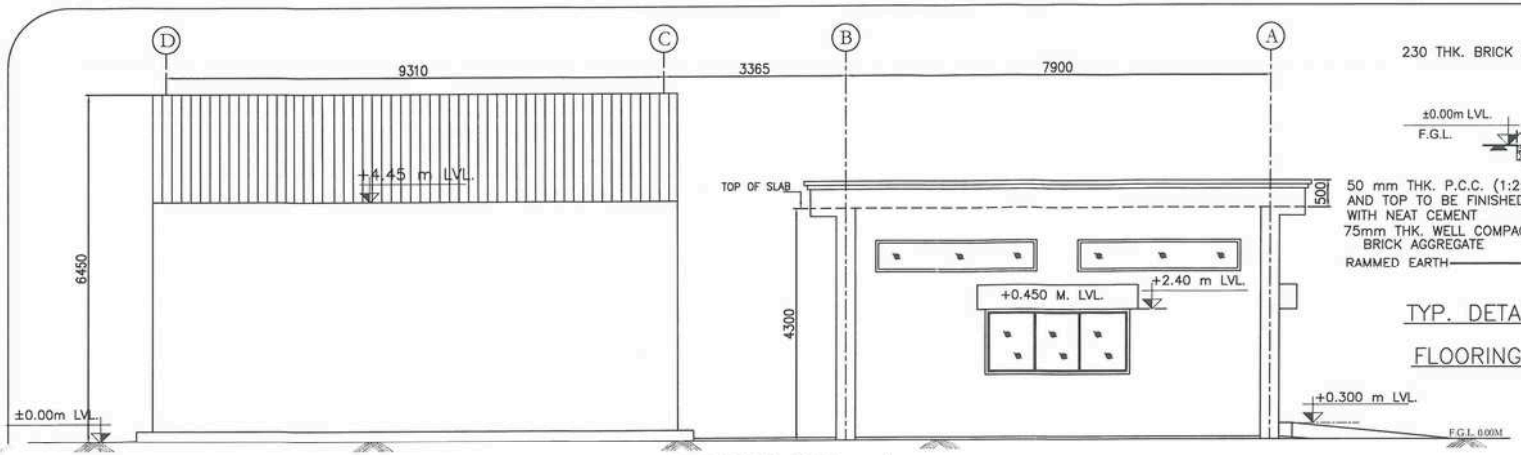
SUB TITLE:
GROUND FLOOR PLAN FOR FIRE FIGHTING PUMP HOUSE & WATER TANK

DRAWING NO:
C/ENGG/STD/FFPH/2016/1 OF 16

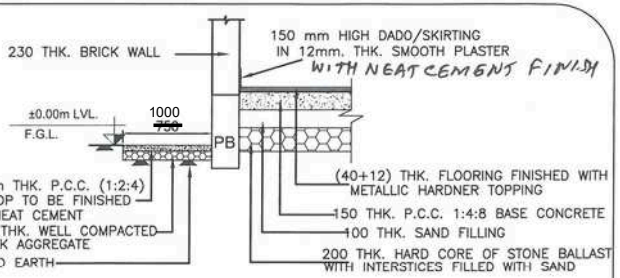
SCALE NTS | REV 0

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/ 03/2016,DTD. 20.12.2016

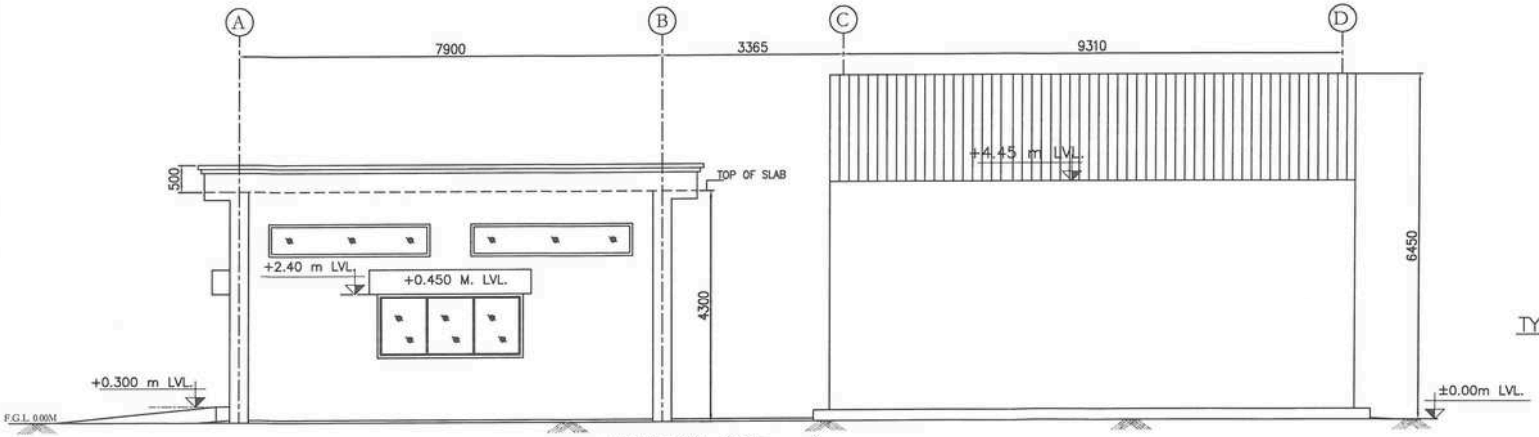
REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ADE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. AGM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17



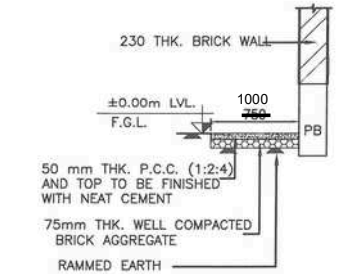
ELEVATION SIDE – 1



TYP. DETAILS FOR PLINTH PROTECTION AND
FLOORING DETAILS FOR FFPH BUILIDING



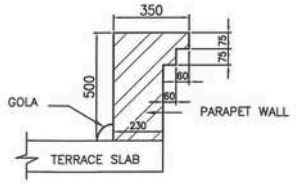
ELEVATION SIDE – 2



TYP. DETAILS FOR PLINTH PROTECTION

SCHEDULE OF OPENING:-

SR. NO.	OPENING MARK	SIZE WXD mm	CILL LVL. mts.	LINTEL LVL. mts.	NOS.	DESCRIPTION
01	ROLLING SHUTTER RS1	2500X3400	+0.300	+3.70	01	~~STANDERED STEEL ROLLING SHUTTER~~ Galvalume Rolling Shutter
02	DOOR D	900x1850 ~~1000X2100~~	~~+0.300~~ +4.45	~~+3.70~~ +6.3	01	~~M.S. DOOR FRAME WITH M.S. SHEET~~ DOUBLE SHUTTER uPVC DOOR
03	DOOR D1	1000x2100 ~~900X1850~~	+0.3 ~~+4.45~~	+2.4 ~~+6.3~~	02	~~Aluminium glazed With 5.5mm Thk Glass Separately under relevant BPS item along with hydralic floor spring & martic lock~~ uPVC DOOR with 5.5 mm thk glazing
04	WINDOW W1	900X1200	+1.20	+2.40	02	~~Sliding Glazed Windows With Aluminium Grill~~ Sliding uPVC window glazing
05	WINDOW W2	2700X1200	+1.20	+2.40	02	~~Sliding Glazed Windows With Aluminium Grill~~ Sliding uPVC window glazing
06	VENTILATOR V1	3010X600	AT BEAM	BOTTOM	04	as per manufacture speciation
07	VENTILATOR V3	1000X600	AT BEAM	BOTTOM	03	as per manufacture speciation



TYP. DETAILS OF CORBELLING FOR
PARAPET AT ROOF LEVEL

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE
NOTE REFERENCE NO. C/ENGG/STD.DRG.
/Civil Works/03/2016. DTD. 20.12.2016

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:-
C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION
OF INDIA LIMITED
(A Government of India Enterprise)

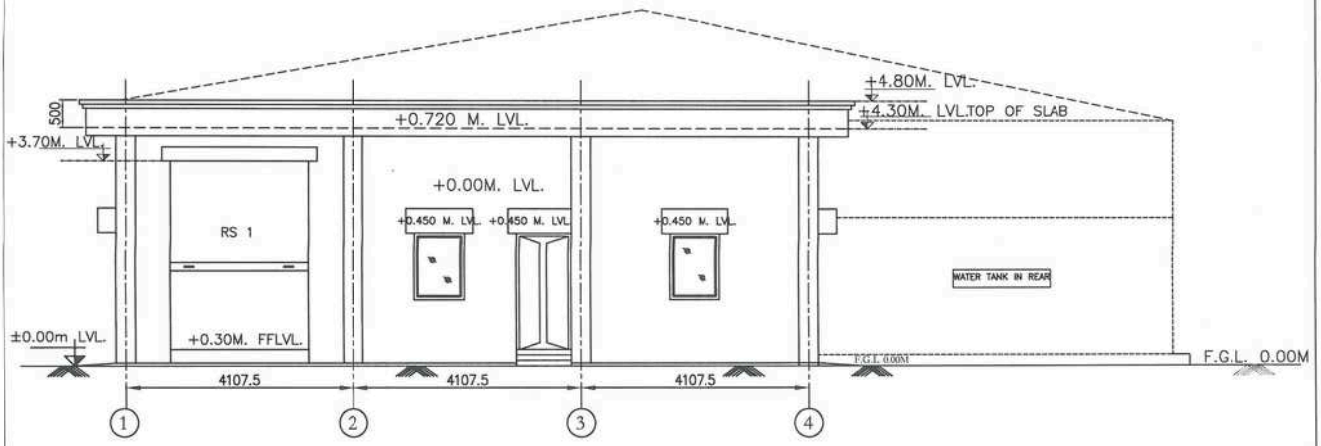
TITLE:
STANDARD FIRE FIGHTING
PUMP HOUSE & WATER TANK.

SUB TITLE:
ELEVATION FOR FIRE
FIGHTING PUMP HOUSE &
WATER TANK

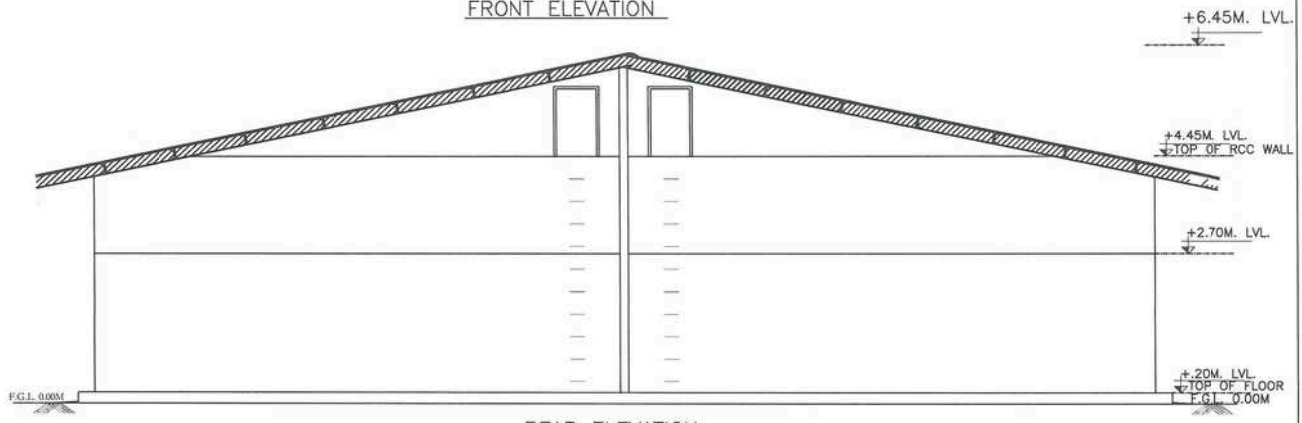
DRAWING NO:
C/ENGG/STD/FFPH/2016/2 OF 16

SCALE NTS | REV 0

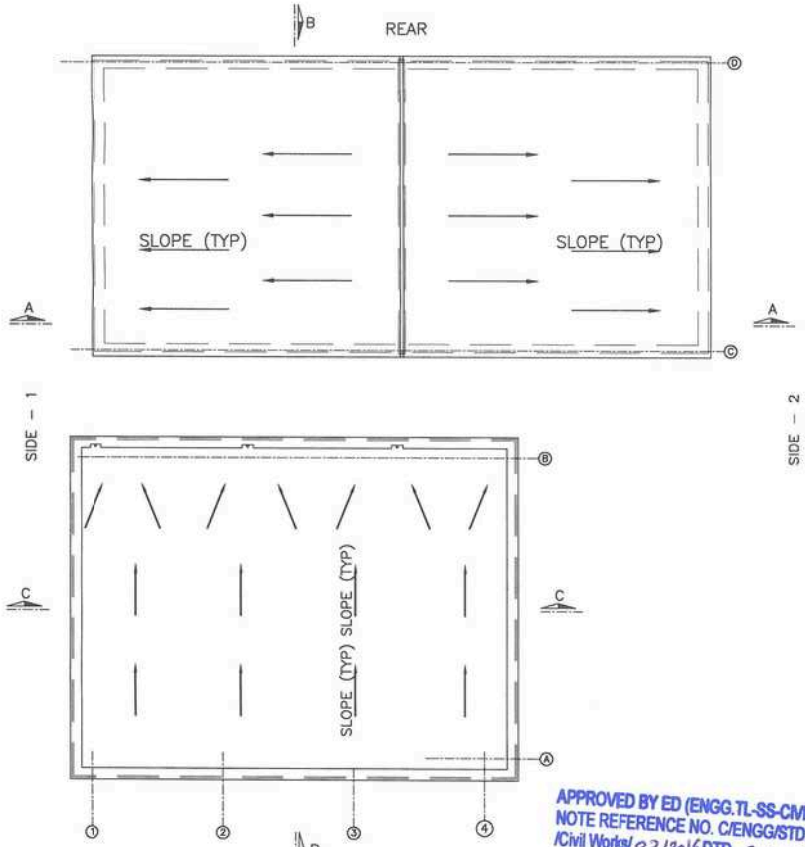
REV.	DESCRIPTION	PREP.	REVD.	REVD.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE
D.	REVISED AS MARKED									



FRONT ELEVATION



REAR ELEVATION



TERRACE LEVEL PLAN FOR FFWT

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/ 03/2016 DTD. 20.12.2016

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:- C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

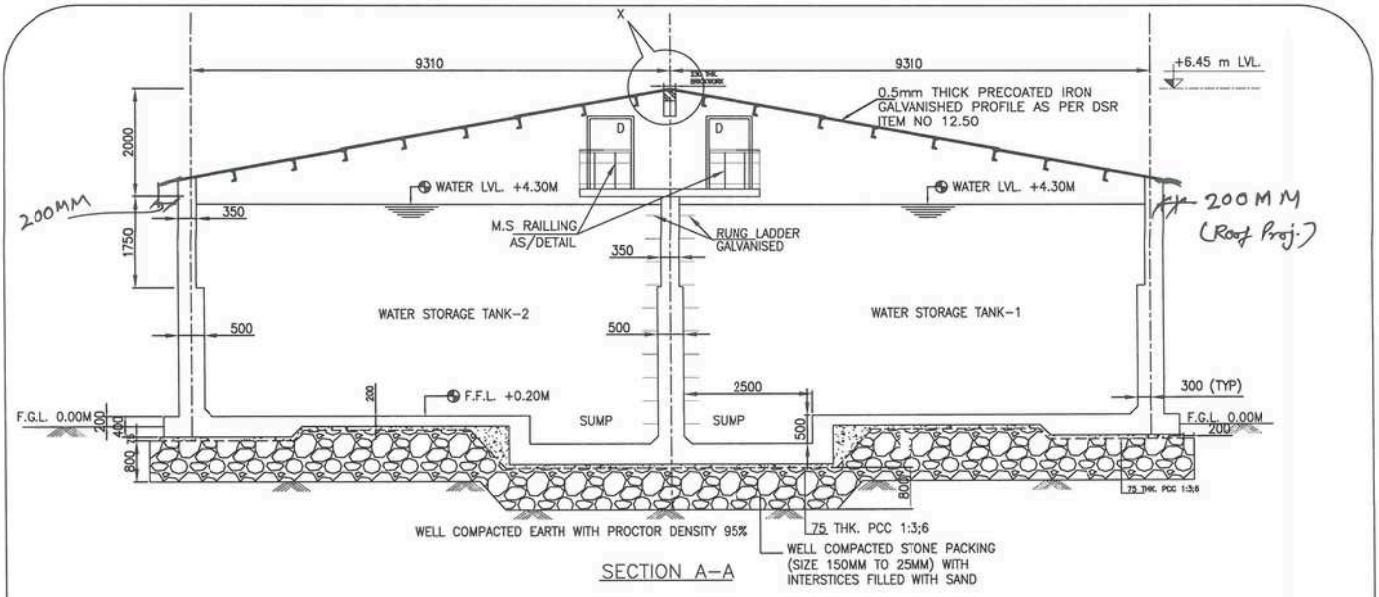
TITLE:
STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE: FRONT & REAR ELEVATION & TERRACE FLOOR PLAN FOR FIRE FIGHTING PUMP HOUSE& WATER TANK

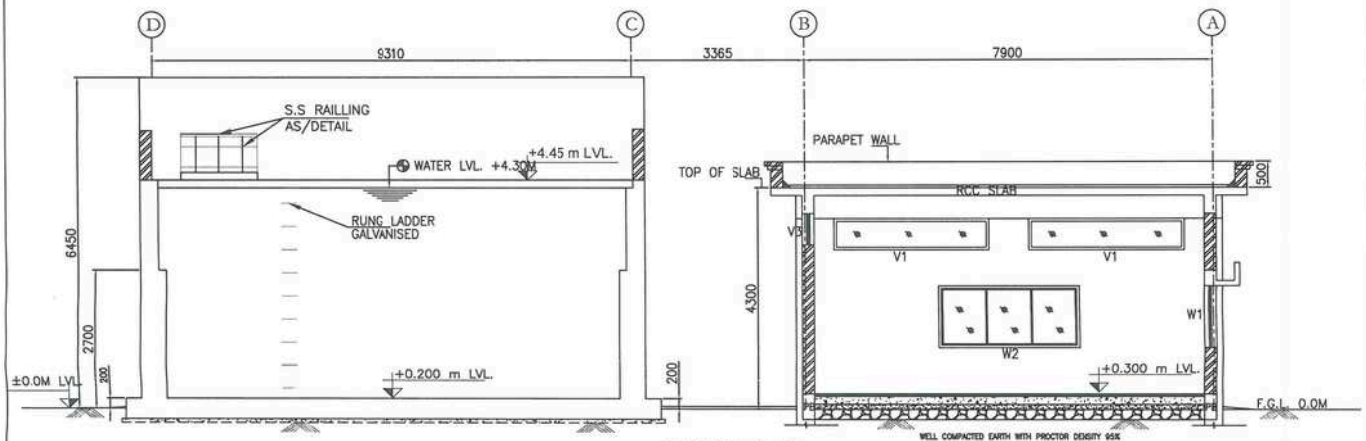
DRAWING NO:
C/ENGG/STD/FFPH/2016/3 OF 16

SCALE REV -

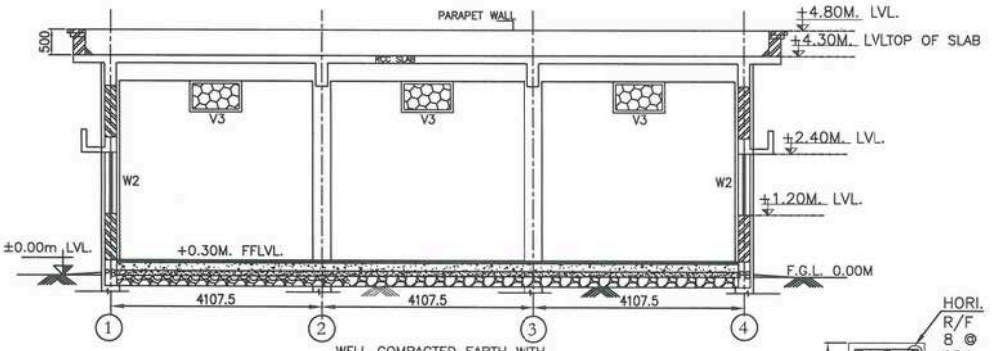
REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ACDE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. ADM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17



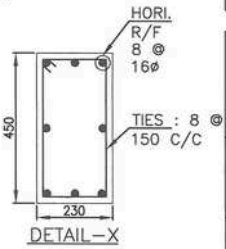
SECTION A–A



SECTION B–B



SECTION C–C



DETAIL–X

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/03/2016DTD. 20.12.2016

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:- C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

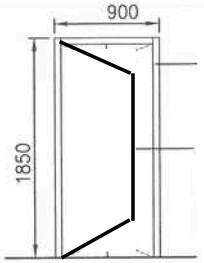
TITLE:
STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE:
SECTION FOR FIRE FIGHTING PUMP HOUSE & WATER TANK

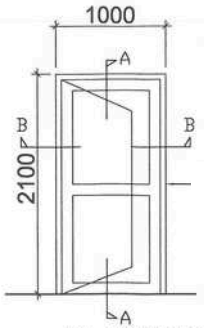
DRAWING NO:
C/ENGG/STD/FFPH/2016/4 OF 16

SCALE NTS | REV 0

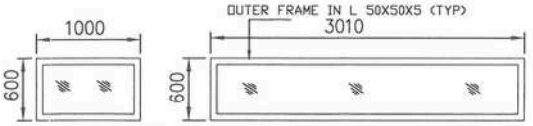
REV.	DESCRIPTION	PREP. JE(ENGG-CIVL)	REVD. ACDE(ENGG-CIVL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVL)	REVD. ASTT.GM (ENGG-CIVL)	REVD. AGM (ENGG-CIVL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVL)	DATE
0.	REVISED AS MARKED									10.1.17



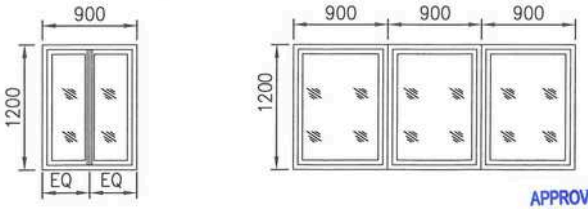
D–900X1850



D1–1000X2100



V3–1000X600 V1–3010X600



W1–900X1200
2 TRACK

W2 –2700x1200
3 TRACK

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:–
C/ENGG/STD/FFPH/16 OF 16

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/ 03/2016 DTD 20.12.2016

REV.	DESCRIPTION	PREP. JE(ENGG–CIVIL)	REVD. ACDE(ENGG–CIVIL)	REVD. (ENGG–ELECT.)	REVD. CDE (ENGG–CIVIL)	REVD. ASTT.GM (ENGG–CIVIL)	REVD. AGM (ENGG–CIVIL)	REVD. (ENGG–ELECT.)	APPD. GM (ENGG–CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17

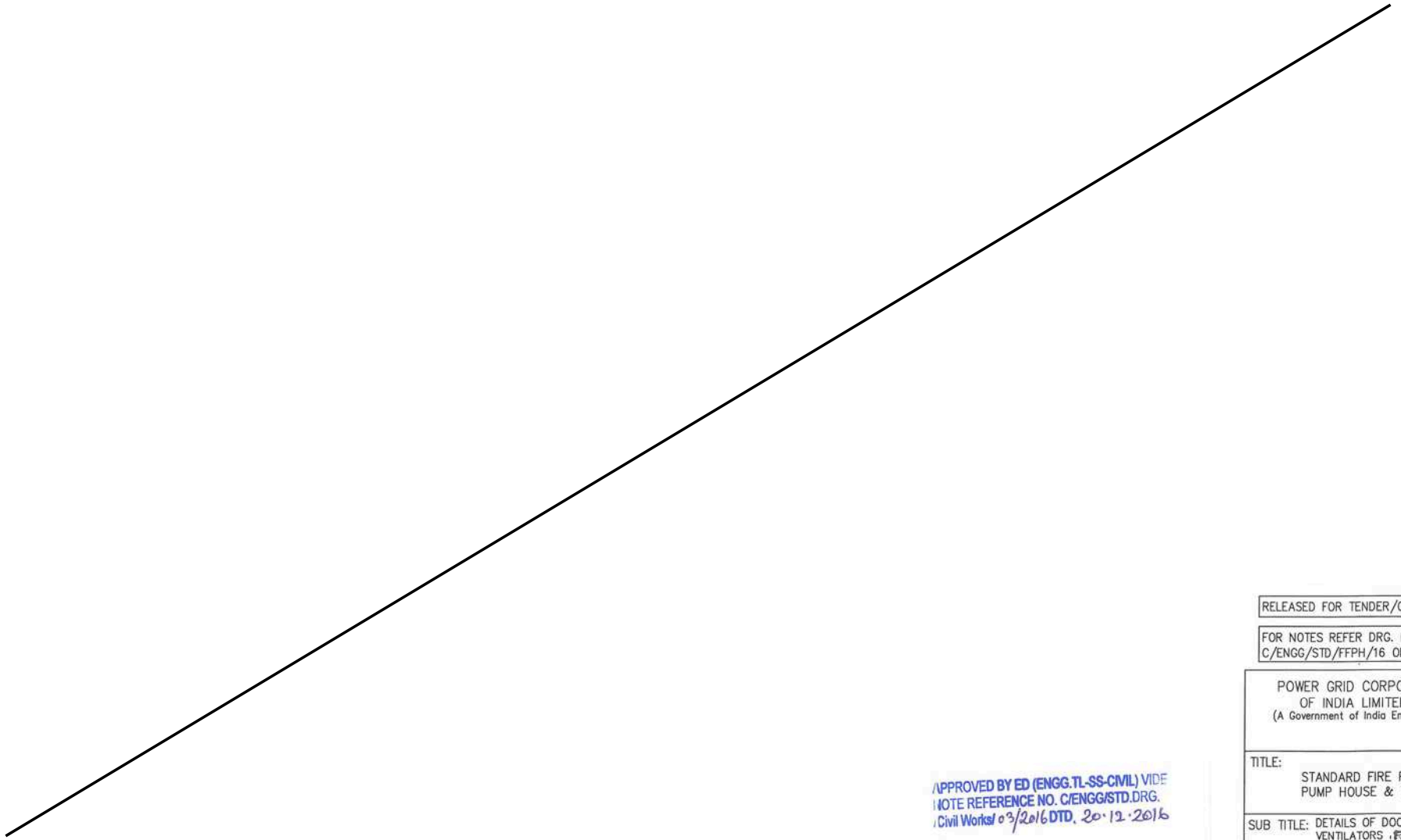
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE: DETAILS OF DOORS, WINDOWS & VENTILATORS FOR FIRE FIGHTING PUMP HOUSE & WATER TANK

DRAWING NO: C/ENGG/STD/FFPH/2016/5 OF 16

SCALE	REV
NTS	0



RELEASED FOR TENDER/CONSTRUCTION

FOR NOTES REFER DRG. NO.:-
C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION
OF INDIA LIMITED
(A Government of India Enterprise)

TITLE:
STANDARD FIRE FIGHTING
PUMP HOUSE & WATER TANK.

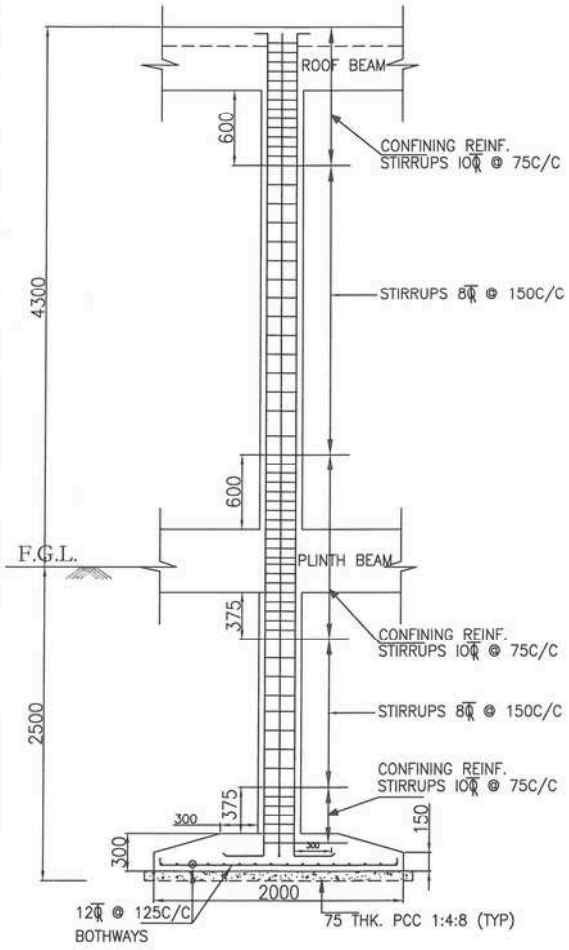
SUB TITLE: DETAILS OF DOORS, WINDOWS & VENTILATORS F. F. PUMP HOUSE & WATER TANK

DRAWING NO:
C/ENGG/STD/FFPH/2016/6 OF 16

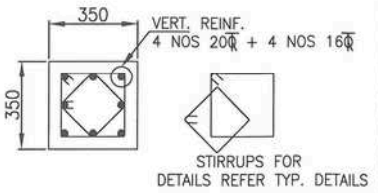
SCALE NTS | REV 0

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE
NOTE REFERENCE NO. C/ENGG/STD.DRG.
Civil Works/03/2016 DTD. 20.12.2016

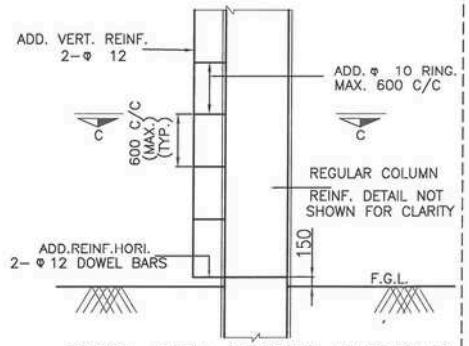
REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ACDE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. AGM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17



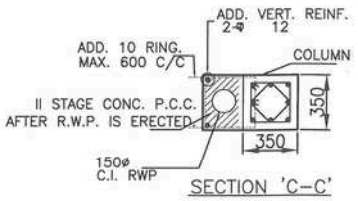
TYP. DETAILS FOR FOOTING F1 & F2
& COLUMN TYPE – C1 & C2



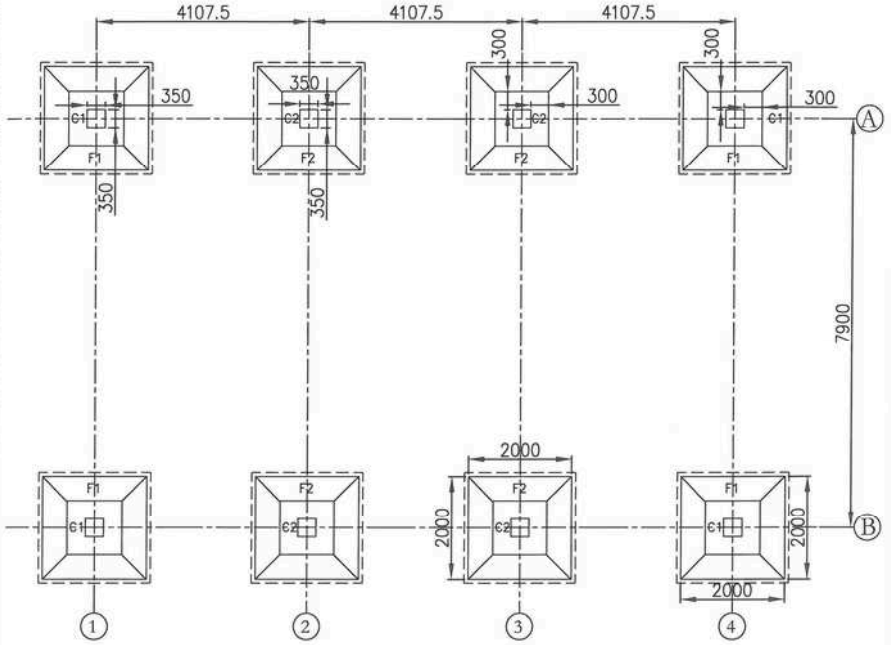
TYP. REINF. DETAILS FOR
COLUMN TYPE – C1 & C2



TYPICAL DETAIL OF DOWEL BARS R.W.P.
CONCEALMENT IN P.C.C.



SECTION 'C–C'



FOUNDATION LAYOUT FOR FFPH

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:–
C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION
OF INDIA LIMITED
(A Government of India Enterprise)

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE
NOTE REFERENCE NO. C/ENGG/STD.DRG.
/Civil Works/03/2016 DTD 20.12.2016

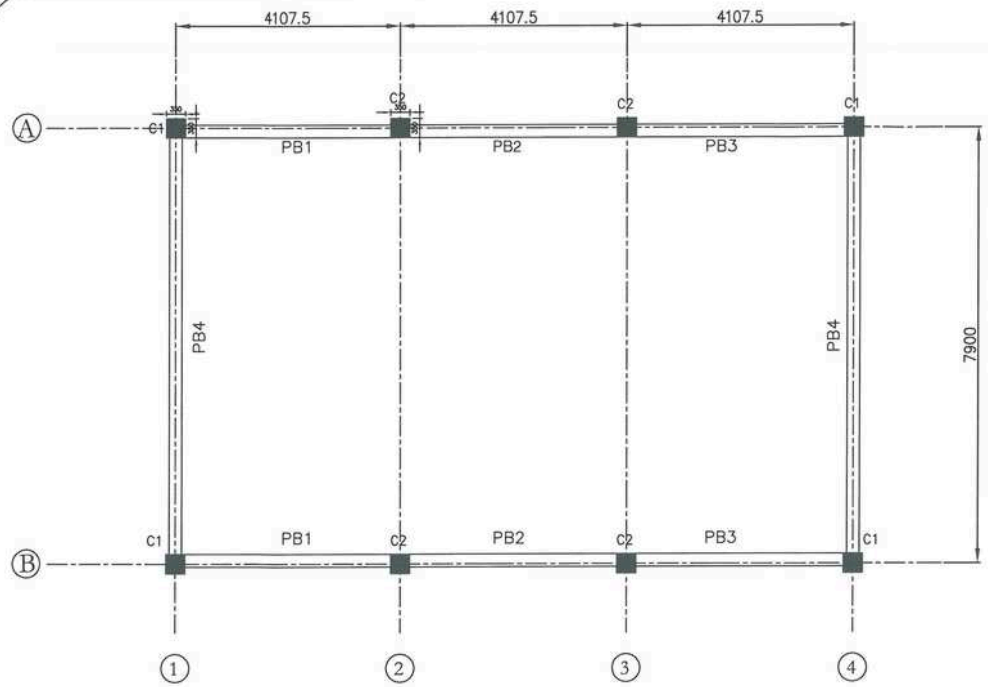
TITLE:
STANDARD FIRE FIGHTING
PUMP HOUSE & WATER TANK.

SUB TITLE:
FOUNDATION LAYOUT &
DETAILS FOR F.F.
PUMP HOUSE

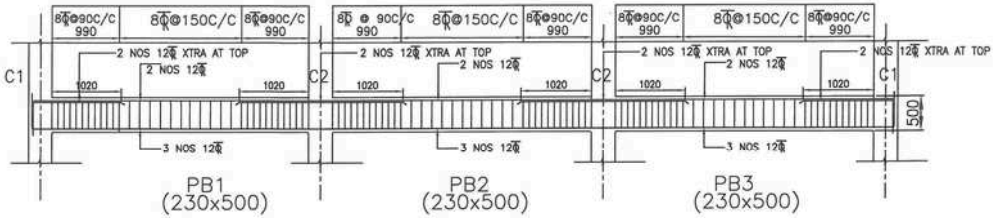
DRAWING NO:
C/ENGG/STD/FFPH/2016/7 OF 16

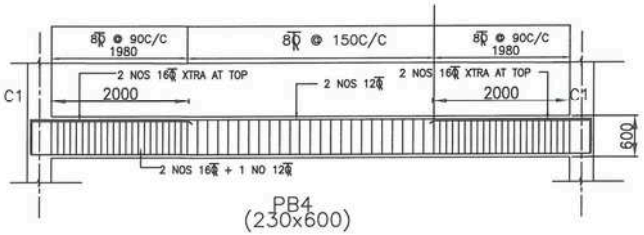
SCALE NTS | REV 0

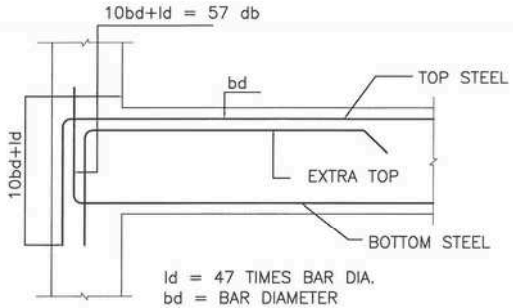
REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ACE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. AGM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17



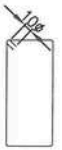
PLINTH LEVEL LAYOUT FOR FFPH



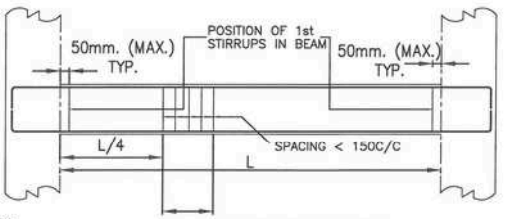




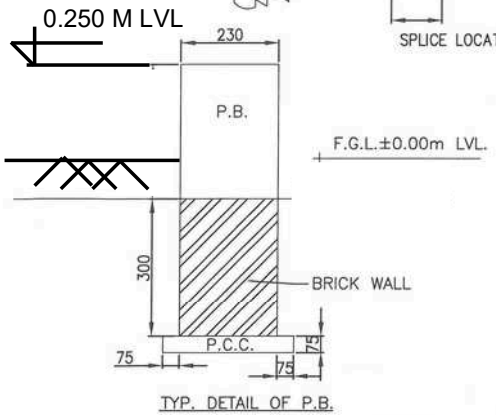
ANCHORAGE OF BEAM BARS IN AN EXTERNAL COLUMN (TYP.)



TYP. HOOK DETAILS OF STIRRUPS



SPLICE LOCATION IF REQUIRED



TYP. DETAIL OF P.B.

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:- C/ENGG/STD/FFPH/16 OF 16

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/03/2016 DTD. 20.12.2016

REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ACDE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. AGM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17

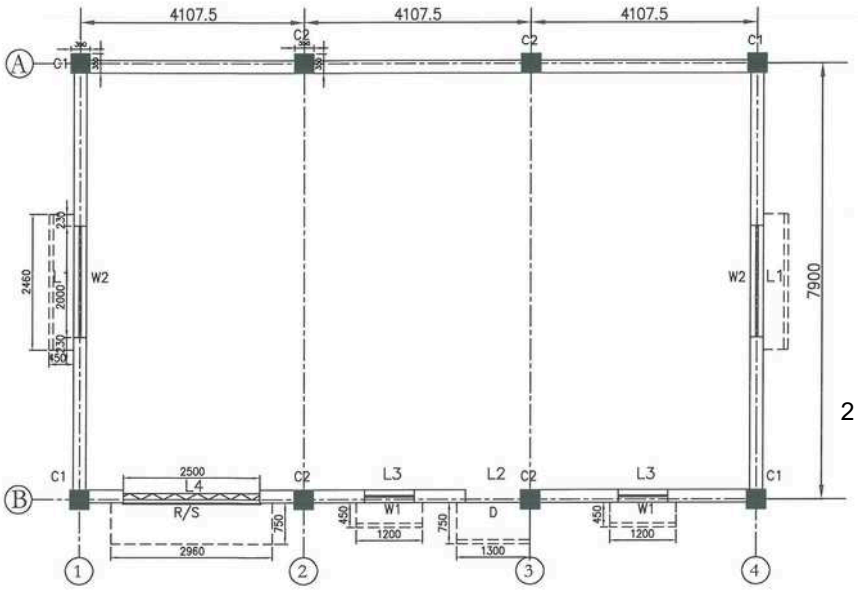
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE:
STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

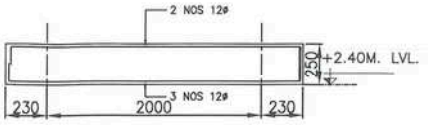
SUB TITLE:
PLINTH LEVEL LAYOUT & DETAILS OF PLINTH BEAM FOR FFPH

DRAWING NO:
C/ENGG/STD/FFPH/8 OF 16

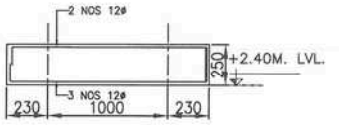
SCALE	REV
	0



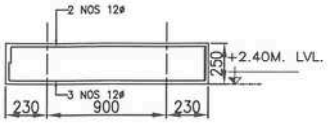
LINTEL LEVEL LAYOUT FOR FFPH



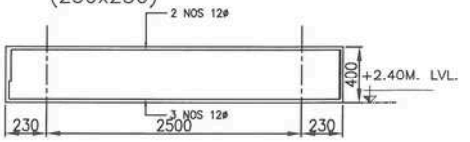
L1
(230x250)



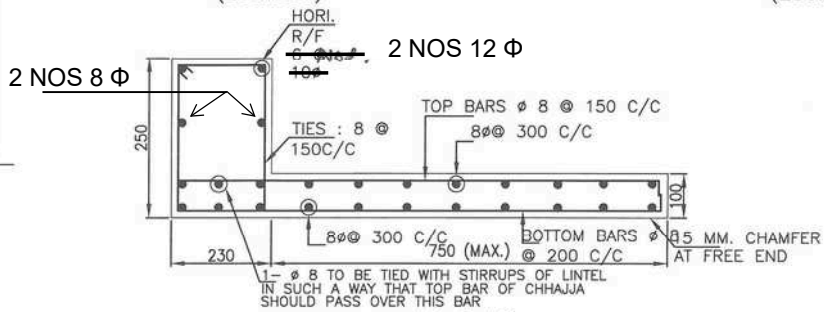
L2
(230x250)



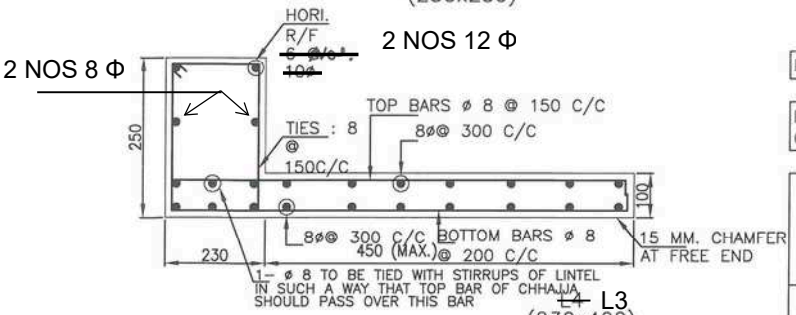
L3
(230x250)



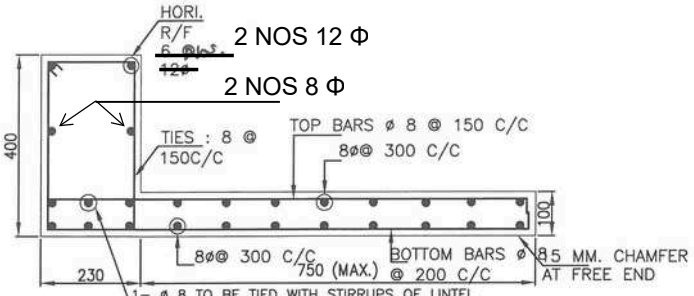
L4
(230x400)



L1 & L2
(230x250)



~~L4~~ L3
(230x~~400~~)
250



L4
(230x400)

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:-
C/ENGG/STD/FFPH/16 OF 16

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE
NOTE REFERENCE NO. C/ENGG/STD.DRG.
/Civil Works/03/2016 DTD. 20.12.2016

POWER GRID CORPORATION
OF INDIA LIMITED
(A Government of India Enterprise)

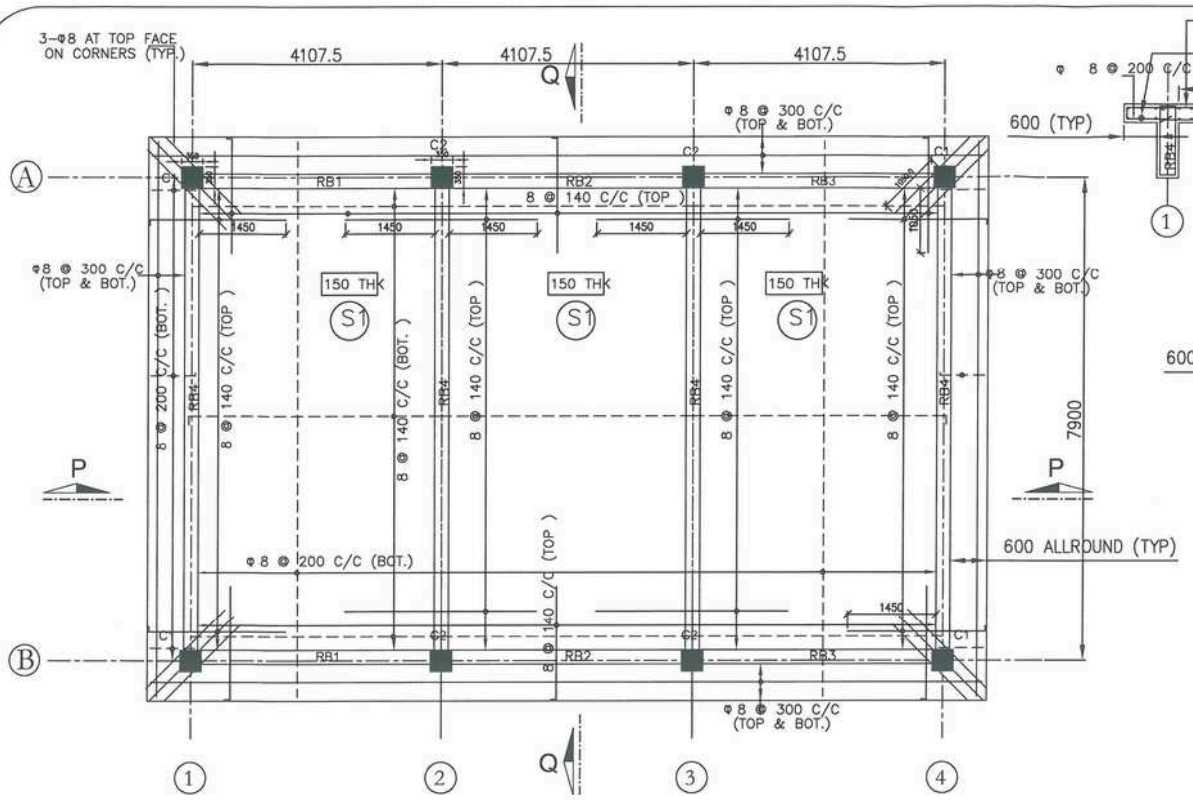
TITLE:
STANDARD FIRE FIGHTING
PUMP HOUSE & WATER TANK.

SUB TITLE:
LINTEL LEVEL LAYOUT &
DETAILS OF
LINTEL BEAM FOR FFPH

DRAWING NO:
C/ENGG/STD/FFPH/2016/9 OF 16

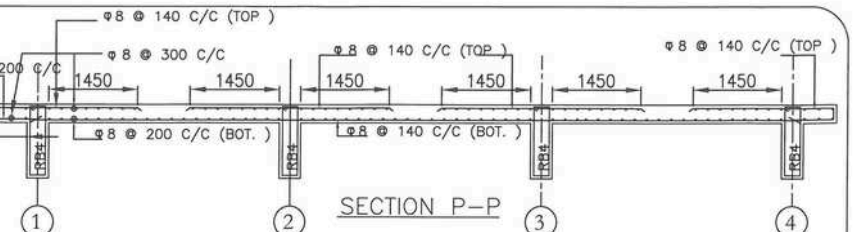
SCALE NTS | REV 0

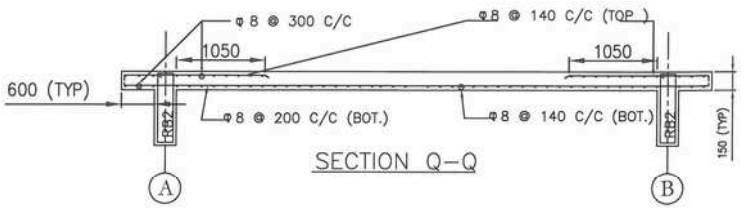
REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ACDE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. AGM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17

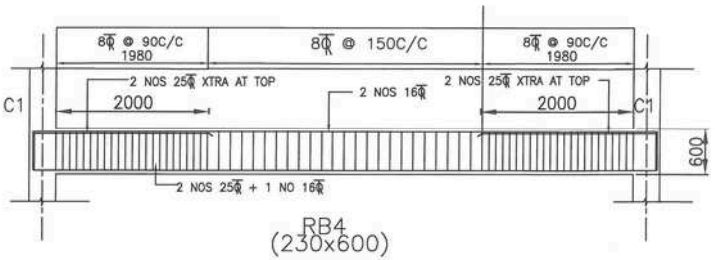


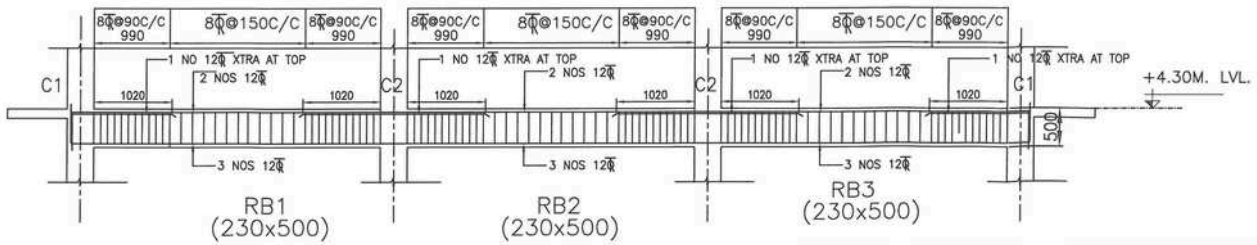
ROOF SLAB LEVEL LAYOUT FOR FFPH

NOTE: – DISTRIBUTION REINFORCEMENT WHER EVER NOT SHOWN SHALL BE TOR 8@300 C/C









APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/ 03/2016 DTD. 20.12.2016

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:- C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

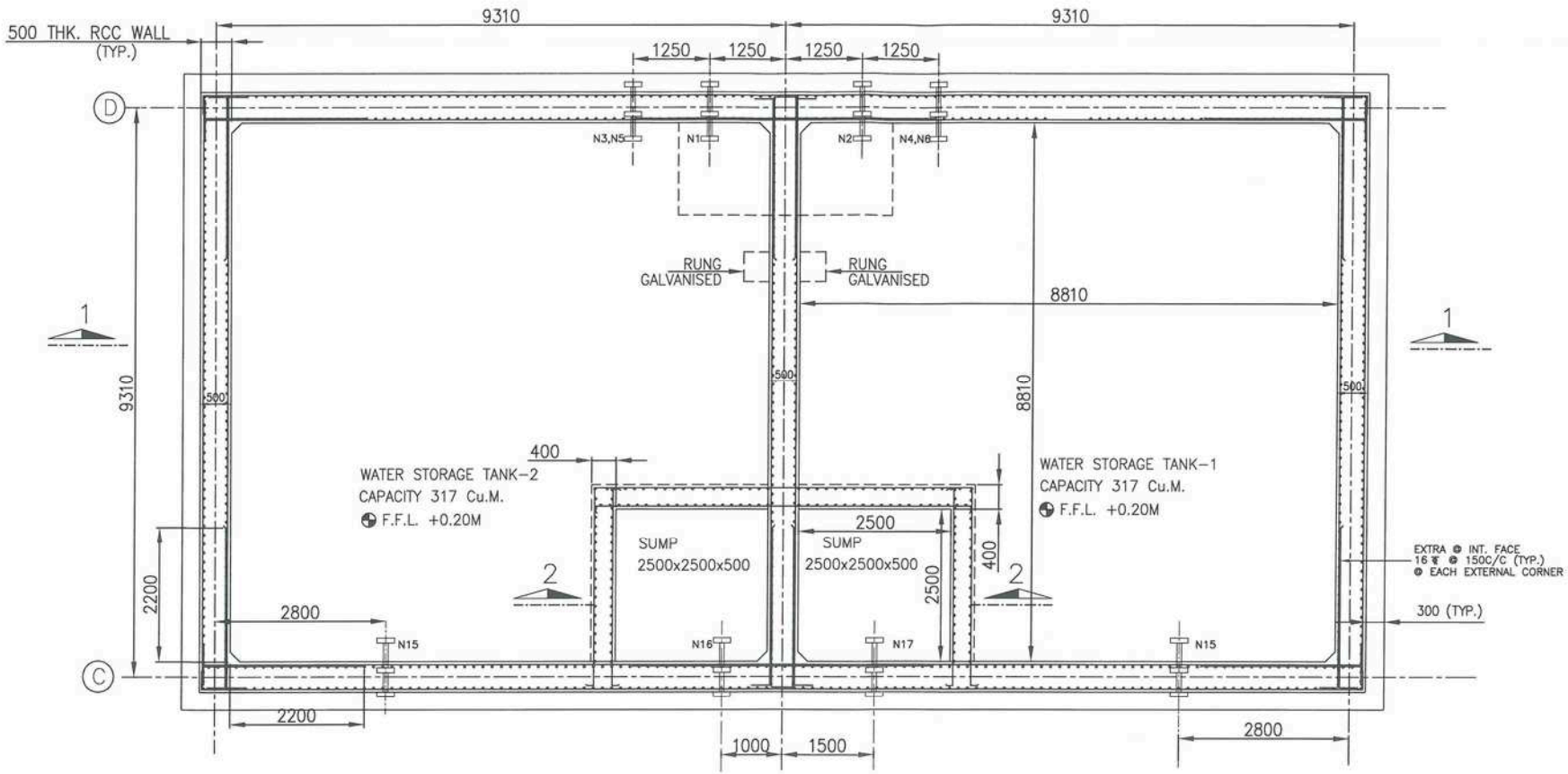
TITLE: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE: ROOF LEVEL LAYOUT & DETAILS OF BEAMS & SLAB FOR FFPH

DRAWING NO: C/ENGG/STD/FFPH/2016/10 OF 16

SCALE NTS | REV 0

REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ACDE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. AGM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									



ALL INSERTS, NOZZLES, PIPE SLEEVES SHALL BE PLACED IN POSITION AS PER F.F. REQUIREMENT BEFORE CONCRETING.

SR.NO.	NOZZEL NO.	SIZE	DISCRIPTION	BOTTOM OF PIPE ELEVATION LEVEL
1	N1, N2	100 NB	WATER INLET	EL. +4.30
2	N3, N4	50 NB	DRAIN	EL. +0.25
3	N5, N6	80 NB	OVER FLOW	EL. +4.30
4	N7, N8	80 NB	LVL. SWITCH	TOP
5	N9, N10	25 NB	LVL. INDICATOR	TOP
6	N11, N12	25 NB	LVL. INDICATOR	TOP
7	N13, N14	25 NB	LVL. INDICATOR	TOP
8	N15	100 NB	RECIRCULATION	EL. +4.45
9	N16	300 NB	PUMP SUCTION	EL. +0.919
10	N17	300 NB	PUMP SUCTION	EL. +0.919

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/03/2016 DTD. 20.12.2016

REV.	DESCRIPTION	PREP. JE(ENGG–CIVIL)	REVD. ACDE(ENGG–CIVIL)	REVD. (ENGG–ELECT.)	REVD. CDE (ENGG–CIVIL)	REVD. ASTT.GM (ENGG–CIVIL)	REVD. AGM (ENGG–CIVIL)	REVD. (ENGG–ELECT.)	APPD. GM (ENGG–CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:– C/ENGG/STD/FFPH/16 OF 16

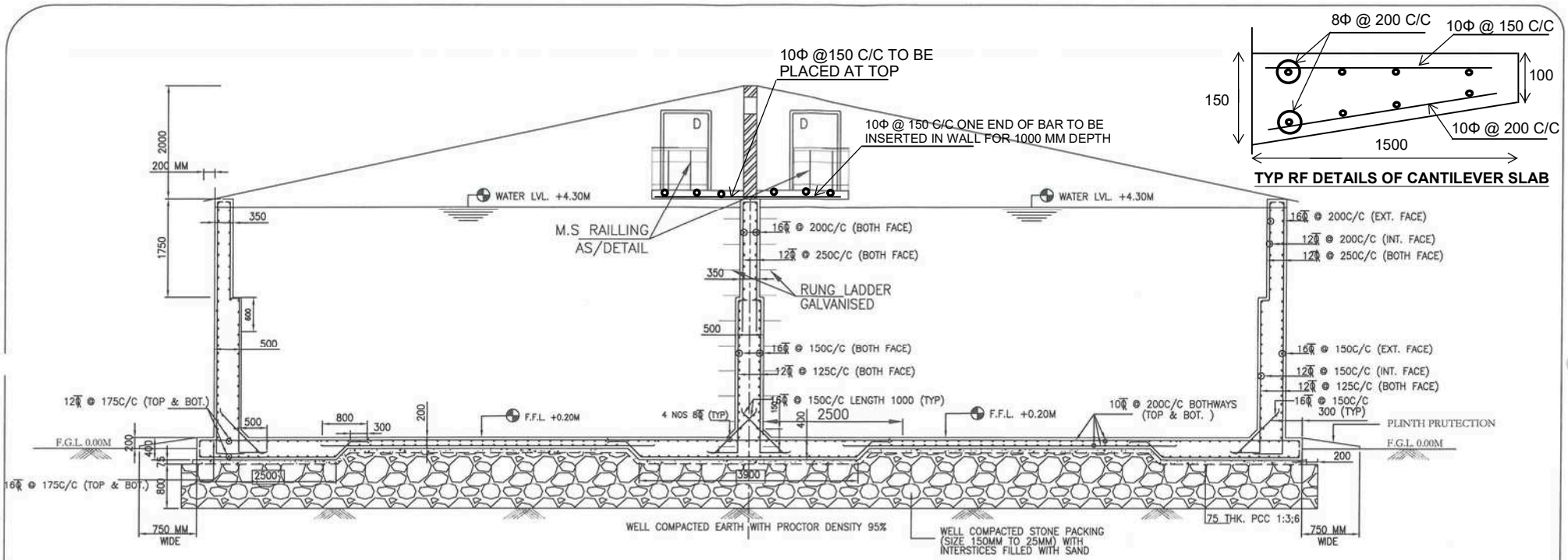
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE: RCC DETAILS OF GROUND WATER STORAGE TANK FOR F. F. PUMP HOUSE

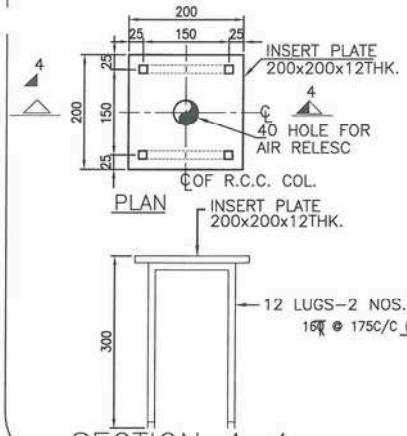
DRAWING NO: C/ENGG/STD/FFPH/2016/11 OF 16

SCALE NTS | REV 0

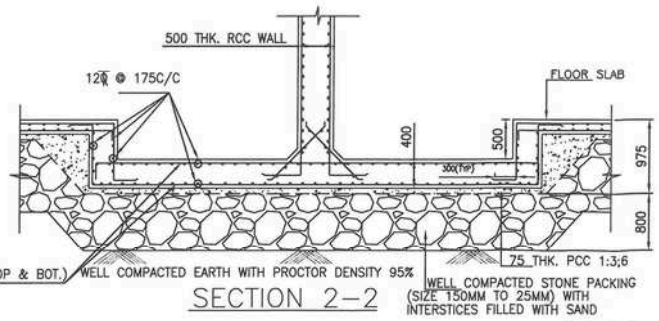


SECTION 1–1

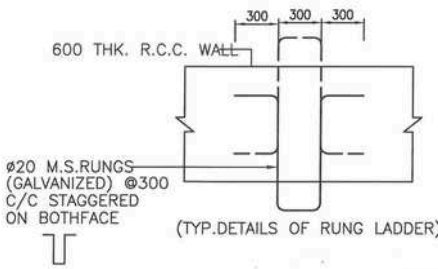
TYP RF DETAILS OF CANTILEVER SLAB



SECTION 4–4



SECTION 2–2



(TYP.DETAILS OF RUNG LADDER)

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/03/2016DTD 20.12.2016

NOTES:–

1. MODIFICATION AS PER TS–10 INCORPORATED, IF ANY.

REV.	DESCRIPTION	PREP.	REVD.	REVD.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE
0.	REVISED AS MARKED	JE(ENGG–CIVIL)	ACDE(ENGG–CIVIL)	(ENGG–ELECT.)	CDE (ENGG–CIVIL)	ASTT.GM (ENGG–CIVIL)	AGM (ENGG–CIVIL)	(ENGG–ELECT.)	GM (ENGG–CIVIL)	10/1/17

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:– C/ENGG/STD/FFPH/16 OF 16

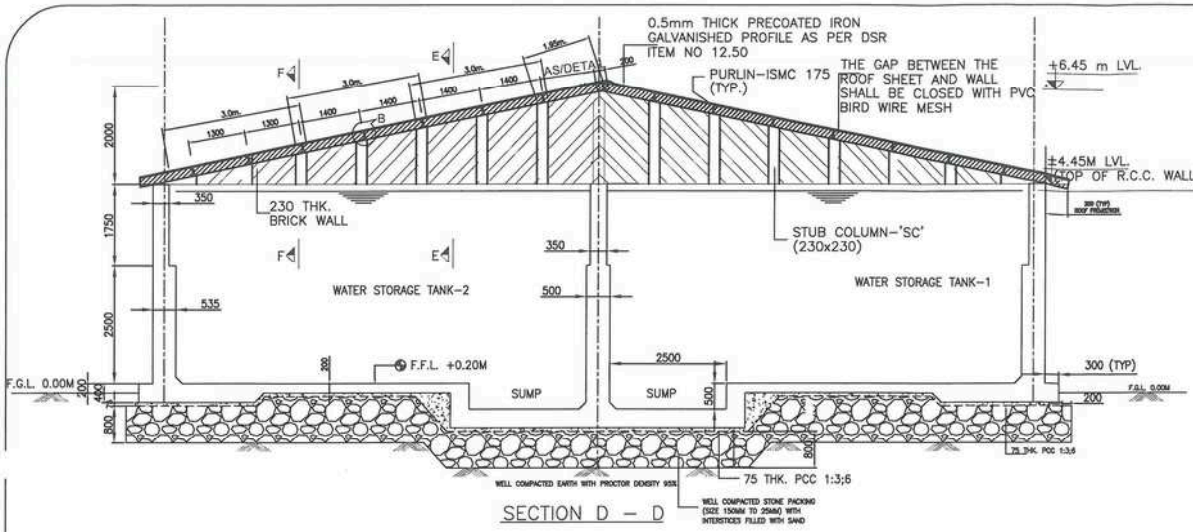
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

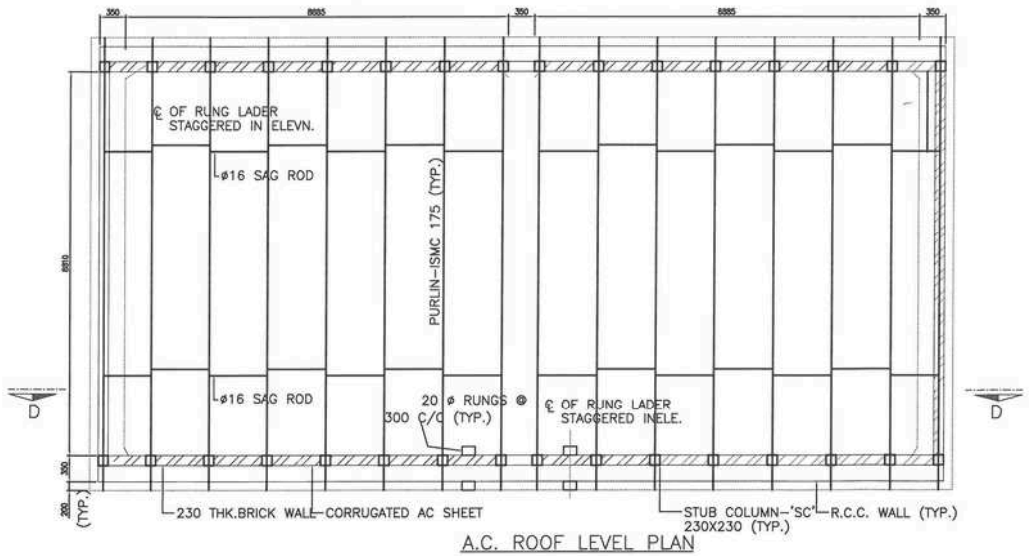
SUB TITLE: RCC DETAILS FOR FIRE FIGHTING PUMP HOUSE

DRAWING NO: C/ENGG/STD/FFPH/2016/12 OF 16

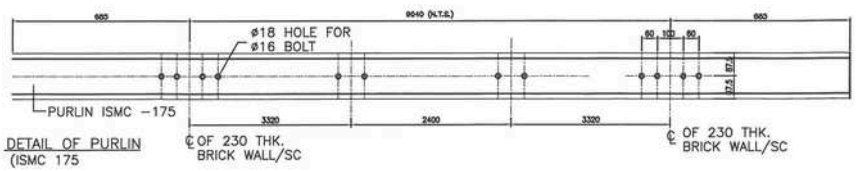
SCALE NTS | REV 0



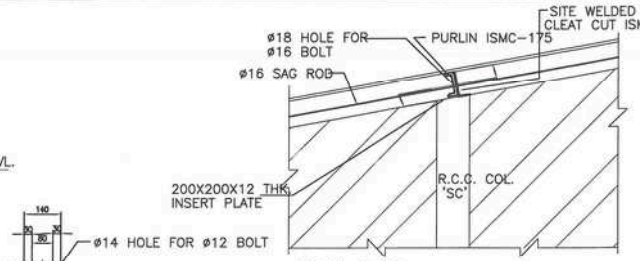
SECTION D – D



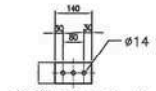
A.C. ROOF LEVEL PLAN



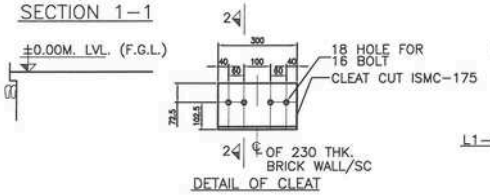
DETAIL OF PURLIN (ISMC 175



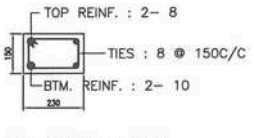
DETAIL AT 'B'



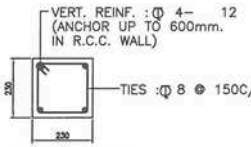
SECTION 1–1



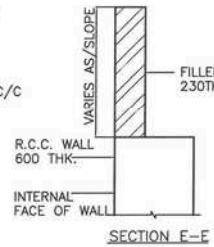
DETAIL OF CLEAT



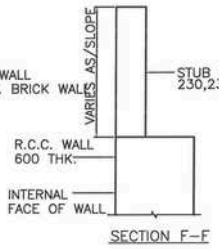
L1–230x150DEEPx1400LG.



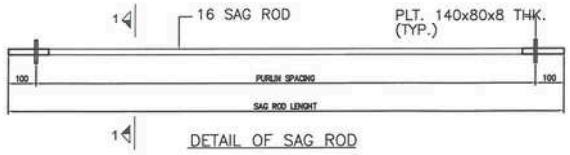
DETAIL OF 'SC'



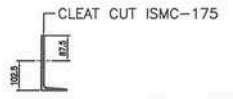
SECTION E–E



SECTION F–F



DETAIL OF SAG ROD



SECTION 2–2

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG /Civil Works/03/2016 DTD 20.12.2016

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:– C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)

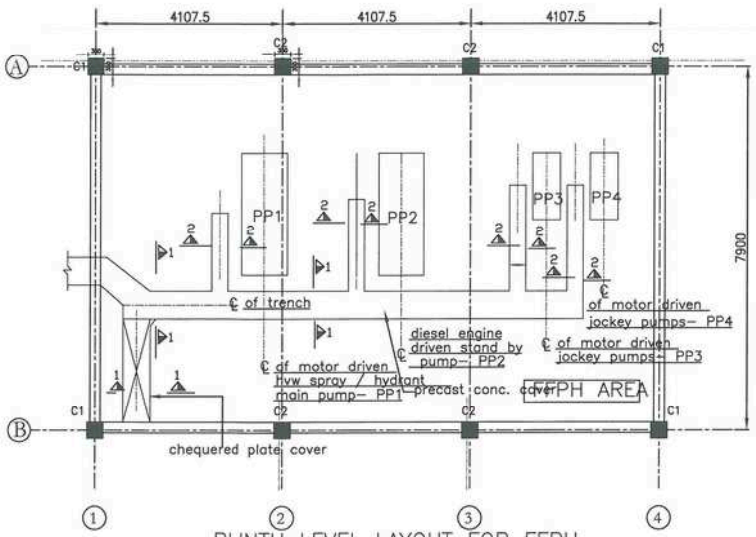
TITLE: ROOF LEVEL PLAN & DETAILS FOR FIRE WATER TANK

SUB TITLE: ROOF LEVEL PLAN & DETAILS FIREFIGHTING PUMP HOUSE

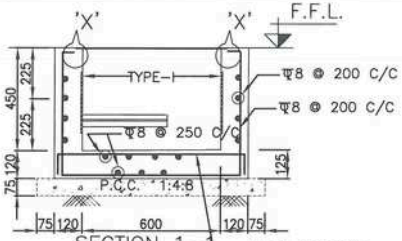
DRAWING NO: C/ENGG/STD/FFPH/2016/13 OF 16

SCALE NTS | REV 0

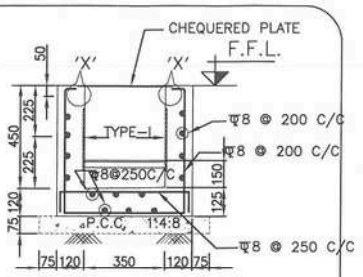
REV.	DESCRIPTION	PREP.	REVD.	REVD.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE
0.	REVISED AS MARKED									



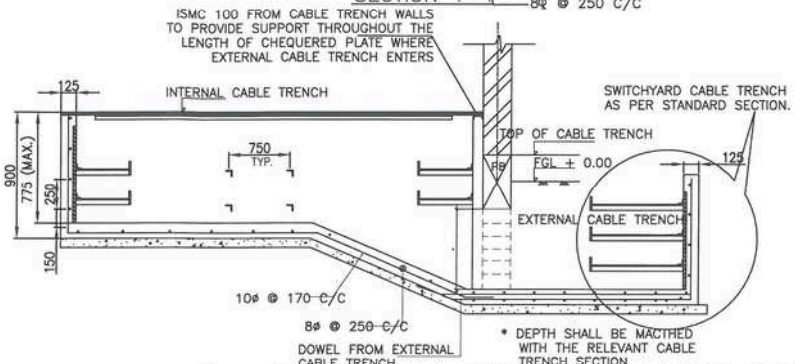
PLINTH LEVEL LAYOUT FOR FFPH



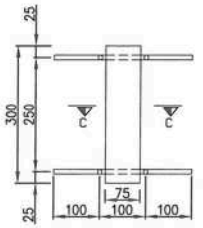
SECTION 1-1

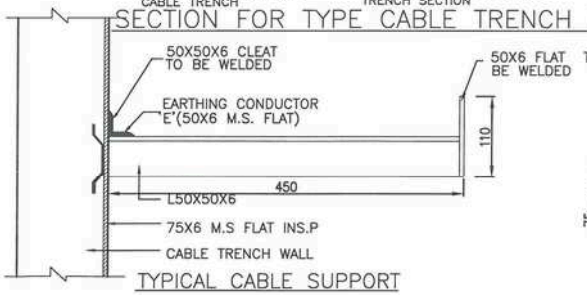


SECTION 2-2

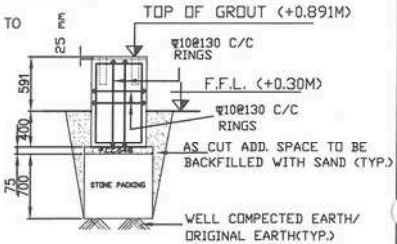


SECTION FOR TYPE CABLE TRENCH DETAIL

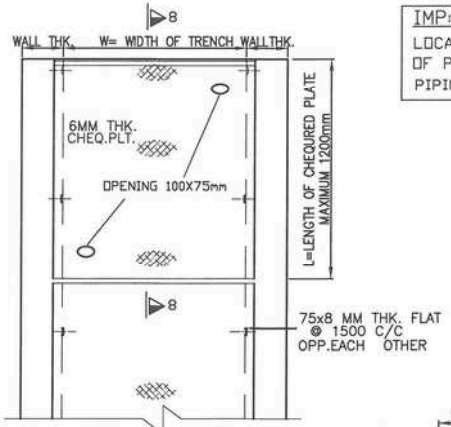




TYPICAL CABLE SUPPORT

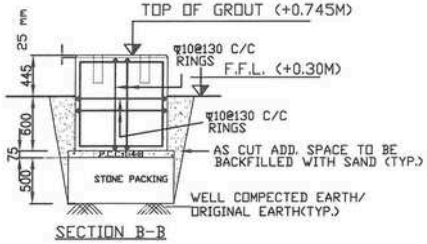


SECTION F-F



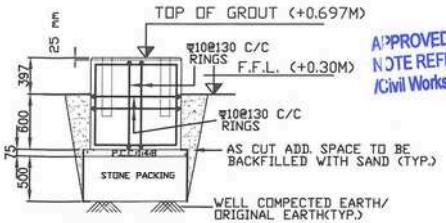
KEY PLAN FOR CHEQUERED PLATE PLACEMENT

IMP:-
LOCATION OF CABLE TRENCHES AND DIMENSIONS OF PUMP FOUNDATIONS SHALL BE AS PER DETAIL PIPING LAYOUT OF FIRE WATER PUMPING SYSTEM.



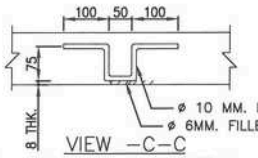
SECTION B-B

PROVIDE:-
ONE PAIR OF HOOKS FOR W =UP TO 350 mm.
TWO PAIR OF HOOKS WHEN WIDTH IS MORE THAN 350 mm.



SECTION D-D

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/03/2016 DTD. 20.12.2016



VIEW -C-C

TYP. INSERT FLAT SECTION FOR LUG

ALL TRENCHES WITHIN THE BUILDING SHALL HAVE LONGITUDINAL BED SLOPE 1 IN 1000 TOWARDS A CENTRAL SUMP THE SUMP SHALL BE CONNECTED BY A 100mm DIA PVC PIPE TO THE NEAREST DRAIN OUTSIDE THE BUILDING.

NO.	REVISED AS MARKED									
REV.	DESCRIPTION	PREP. JE(DIGD-CIVIL)	REVD. ACE(DIGD-CIVIL)	REVD. (DIGD-ELECT.)	REVD. CDE (DIGD-CIVIL)	REVD. ASTT.GM (DIGD-CIVIL)	REVD. AGM (DIGD-CIVIL)	REVD. (DIGD-ELECT.)	APPD. GM (DIGD-CIVIL)	DATE

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:- C/ENGG/STD/FFPH/16 OF 16

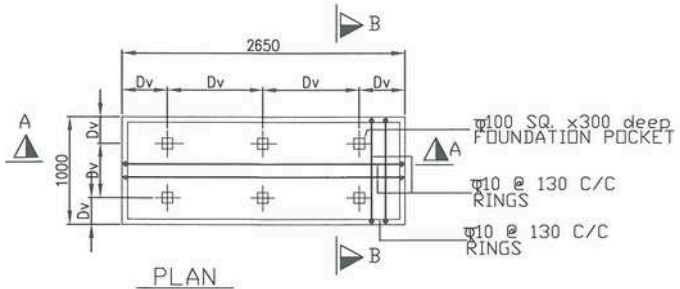
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE: DETAILS OF PUMP/MOTOR FOUNDATION AT PLINTH LEVEL FOR FFPH

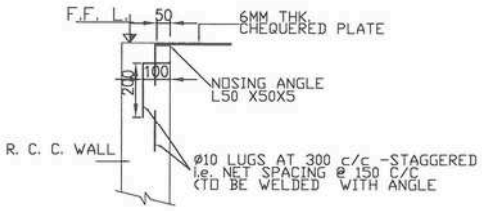
DRAWING NO: C/ENGG/STD/FFPH/2016/14 OF 16

SCALE NTS | REV 0



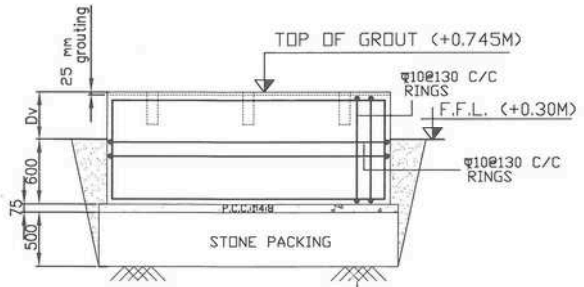
PLAN

PP1-MOTOR DRIVEN HVW SPRAY/ HYDRANTMAIN PUMP

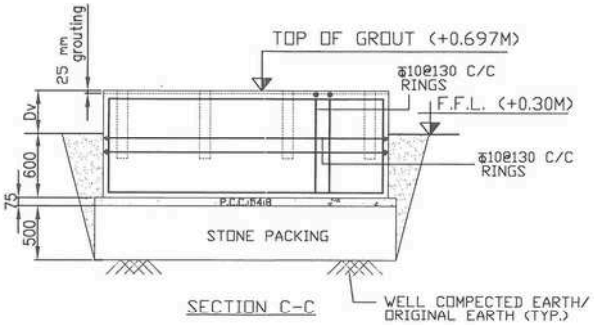


DETAIL AT 'X'

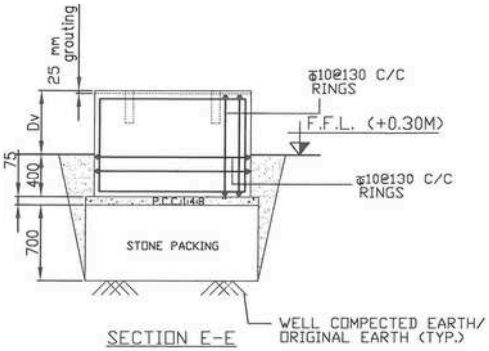
SCALE :-1:20



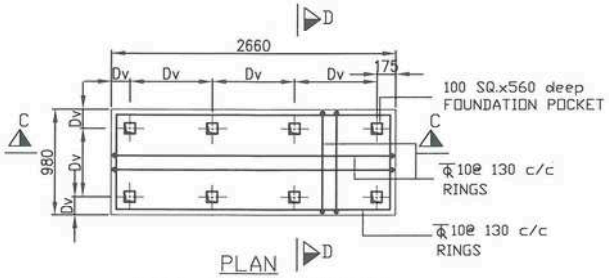
SECTION A-A



SECTION C-C

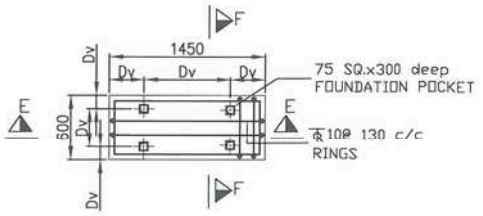


SECTION E-E



PLAN

PP2- DIESEL ENGINE DRIVEN STAND BY PUMP



PLAN

PP3 & PP4 MOTOR DRIVEN JOCKEY PUMPS

IMP:-
(Dv) - DIMENSION OF PUMP HOUSE FOUNDATION/POCKETS SHALL BE AS PER DETAILED PIPING LAYOUT OF FFPH.
Dv= DIMENSION VARIABLE

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/03/2016 DTD 20.12.2016

RELEASED FOR TENDER/CONSTRUCTION.

FOR NOTES REFER DRG. NO.:- C/ENGG/STD/FFPH/16 OF 16

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE: DETAILS OF PUMP/MOTOR FOUNDATION AT PLINTH LEVEL FOR FIRE FIGHTING PUMP HOUSE & WATER TANK

DRAWING NO: C/ENGG/STD/FFPH/2016/15 OF 16

REV.	DESCRIPTION	PREP.	REVD.	REVD.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE
0.	REVISED AS MARKED	JE(ENGG-CIVIL)	ADDE(ENGG-CIVIL)	(ENGG-ELECT.)	CDE (ENGG-CIVIL)	ASTT.GM (ENGG-CIVIL)	AGM (ENGG-CIVIL)	(ENGG-ELECT.)	GM (ENGG-CIVIL)	10/1/17

SCALE NTS | REV 0

GENRAL NOTES:-

(1) ALL DIMENSIONS ARE IN MM AND LEVEL IN METERS.
(2) DO NOT SCALE THE DRG. FOLLOW WRITTEN DIMENSIONS ONLY
(3) THE GRADE OF CONCRETE FOR ALL RCC WORK SHALL BE AS PER BPS.
(4) ALL LEAN CONCRETE SHALL BE 1:4.8 (1 CEMENT ,4 COARSE SAND
8 GRADED STONE AGGREGATE 40 MM NOMINAL SIZE)
(5) REINFORCEMENT USED SHALL BE TMT BARS OF GRADE Fe 500 CONFORMING TO IS 1786
(6) CLEAR COVER TO REINFORCEMENT SHALL BE AS UNDER

* BOTTOM AND SIDES OF FOUNDATIONS - 50 MM
* FOR COLUMNS - 40 MM
* FOR BEAMS - 25 MM
* FOR LINTELS, CHAJJAS & SLABS - 20 MM

7 PROVIDE CLEAR COVER TO REINFORCEMENT FOR WATER TANK AS GIVEN BELOW..
25 mm FOR FACE IN CONTACT WITH WATER
50 mm FOR FACE IN CONTACT WITH SOIL
8 ALL LAPS SHALL BE STAGGERED AND LAP LENGTH SHALL BE 50 TIMES THE BAR DIA.
9 CONSTRUCTION JOINT SHOWN MAY BE SHIFTED IN CONSULTATION WITH SITE INCHARGE TO SUIT CONCRETING PROGRAMME/FORM WORK.
10 WATER NOT TO BE FILLED IN TANK UNTILL TOP LIFT HAS BEEN CAST & CURED
11 INTEGRAL WATER PROOFING COMPOUND SHALL BE ADDED WHILE CONCRETING AS PER MANUFACTURER'S RECOMENDATIONS
12 ALL INSERTS, NOZZLES, PIPE SLEEVES ETC. SHOWN IN DRG. ARE INDICATIVE ONLY. THESE SHALL BE PLACED IN POSITION BEFORE CONCRETING ASPER FIREFIGHTING REQUIREMENTS.
13 DIMENSIONS OF EQUIPMENT FOUNDATIONS ARE INDICATIVE AND SHALL BE AS PER REQUIREMENTS OF MANUFACTURE.
14 PURLINS SHALL BE MANUFACTURED AFTER EXACT MEASUREMENT AT SITE.
15 COLOUR SCHEME MATCHING WITH CR BUILDNG SHALL BE DECIDED AT SITE
16 EXTERNAL WALLS SHALL BE FULL BRICK.
17 WATER PROOFING SHALL BE DONE AS PER SPECIFICATION
18 ALL EXTERNAL SURFACES SHALL HAVE 18 MM THK CEMENT PLASTER AS PER SPECIFICATION
19 ALL INTERNAL SURFACES SHALL HAVE 12 MM THK CEMENT PLASTER ON SMOOTH SURFACE OF BRICKWALL & 15mm THK. CEMENT PLASTER ON ROUGH SIDE OF BRICKWALL AS PER SPECIFICATION
20 CEILINGS SHALL HAVE 6MM THK CEMENT PLASTER AS PER SPECIFICATION.
21 OUTSIDE AND INSIDE SURFACES OF FIRE WATER TANK SHALL BE UNPLASTERED AND PROVIDED WITH A NEAT COAT OF WATER PROOFING (TWO OR MORE COAT) CEMENT PAINT.
22 FOUNDATION HAS BEEN DESIGNED FOR A BEARING CAPACITY OF 9.0 MT/SQM
23 P.V.C. WATER STOPPER SHALL BE PROVIDED AT ALL CONSTRUCTION JOINT OF WATER STORAGE TANKS
24 IF EXPANSIVE SOIL IS MET AT FOUNDING LEVEL, NECESSARY TREATMENT OF SOIL SHALL BE DONE AS PER RECOMMENDATIONS OF SOIL REPORT BEFORE PLACING THE FOUNDATION.
25 ALL STRUCTRURAL STEEL MEMBERS FOR ROOFING WORK SHALL BE PAINTED WITH SYNTHETIC ENAMEL PAINT OF APPROVED SHADE TWO OR MORE COST TO GIVE EVEN SHADE OVER STEEL PRIMER.

RELEASED FOR TENDER/CONSTRUCTION.

APPROVED BY ED (ENGG.TL-SS-CIVIL) VIDE NOTE REFERENCE NO. C/ENGG/STD.DRG. /Civil Works/ 03/2016DTD .20.12.2016

REV.	DESCRIPTION	PREP. JE(ENGG-CIVIL)	REVD. ACDE(ENGG-CIVIL)	REVD. (ENGG-ELECT.)	REVD. CDE (ENGG-CIVIL)	REVD. ASTT.GM (ENGG-CIVIL)	REVD. AGM (ENGG-CIVIL)	REVD. (ENGG-ELECT.)	APPD. GM (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED									10/1/17

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

TITLE: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

SUB TITLE: GENERAL NOTES FOR FIRE FIGHTING PUMP HOUSE & WATER TANK

DRAWING NO: C/ENGG/STD/FFPH/2016/16 OF 16

SCALE NTS | REV 0