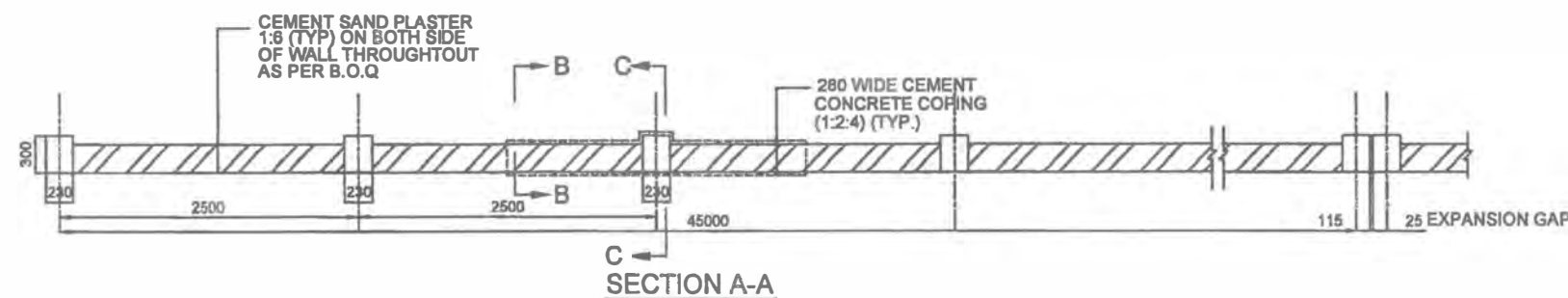
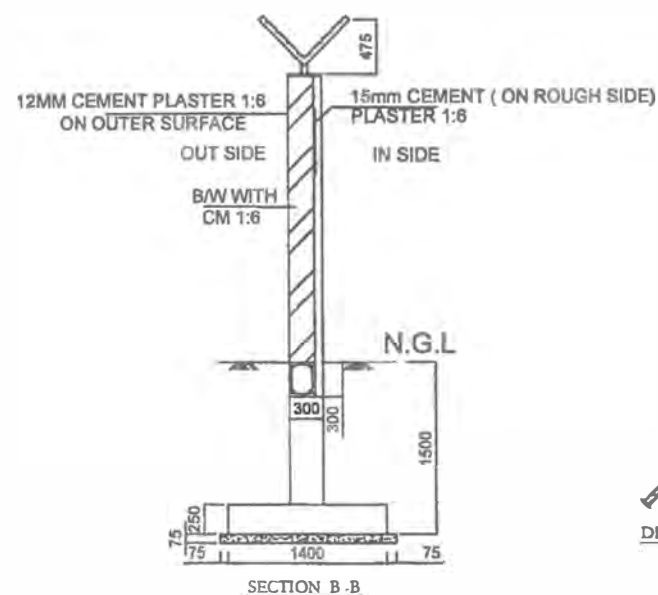


TYPICAL WALL ELEVATION



SECTION A-A



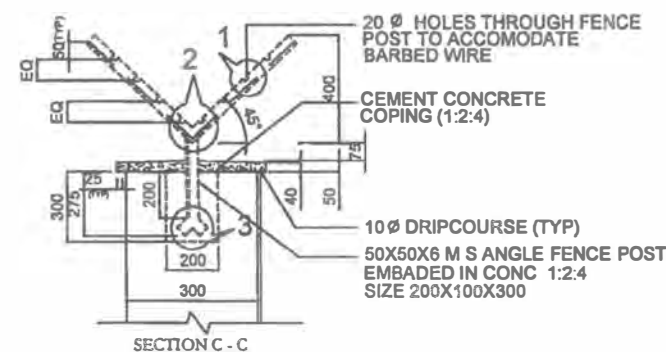
SECTION B-B



DETAIL - 1



DETAIL - 2



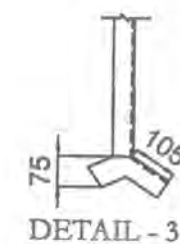
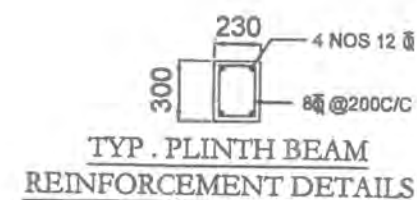
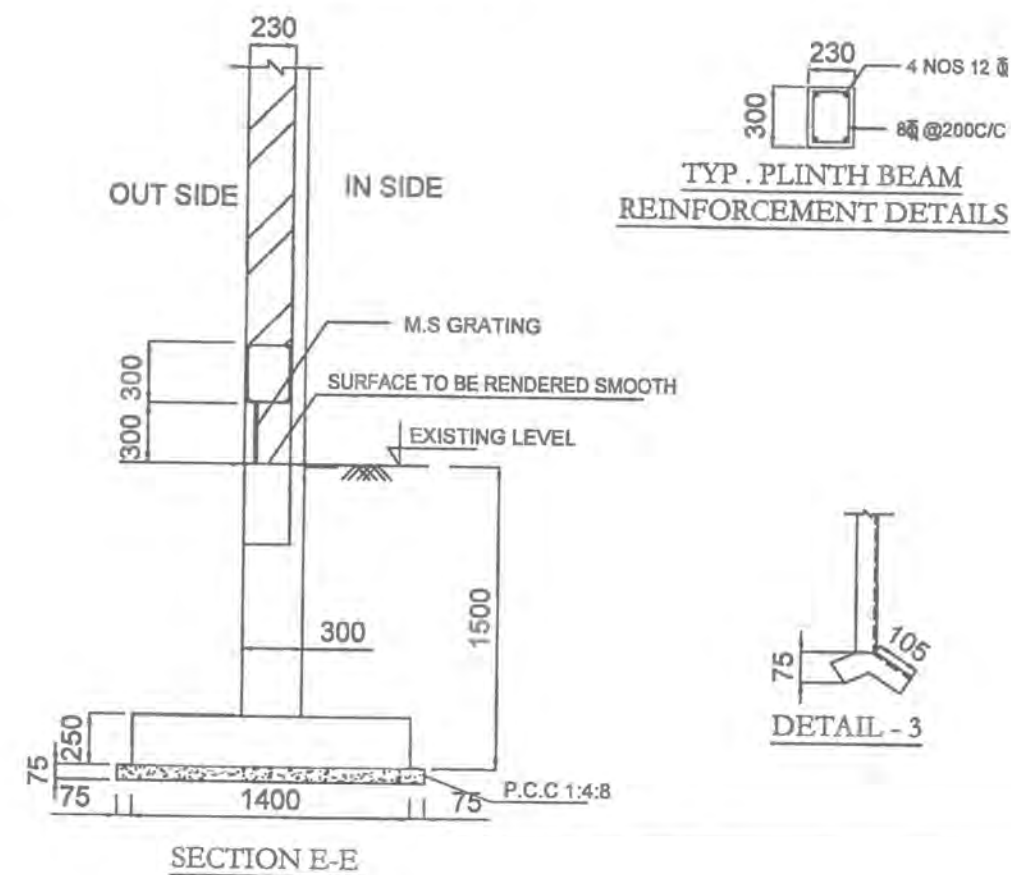
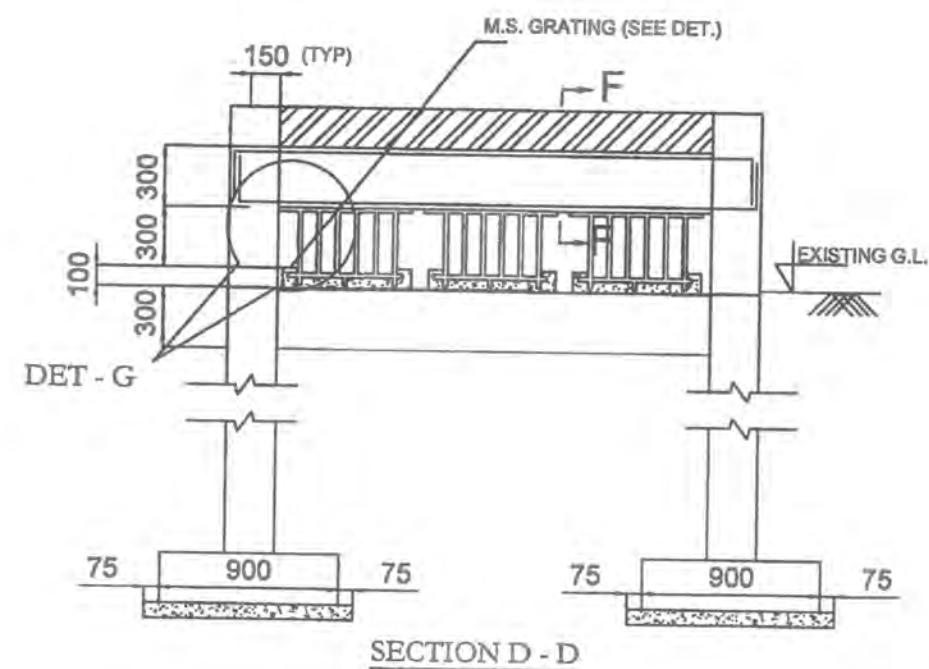
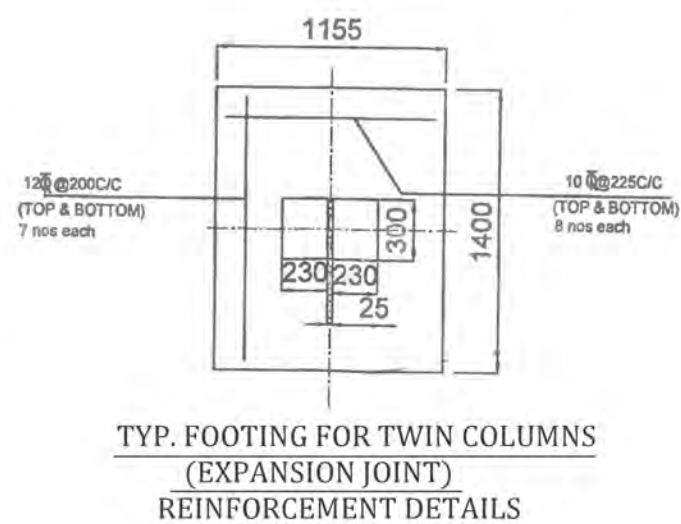
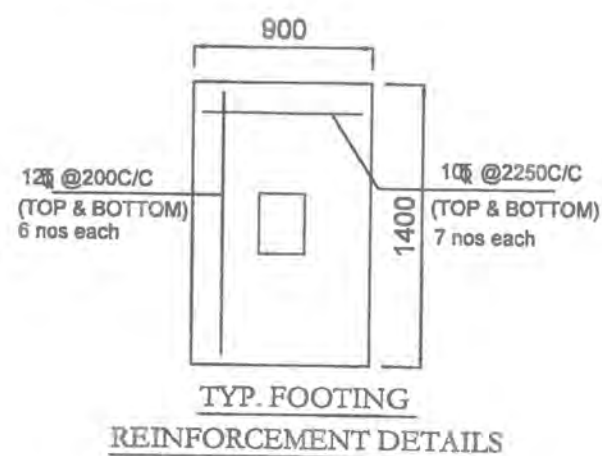
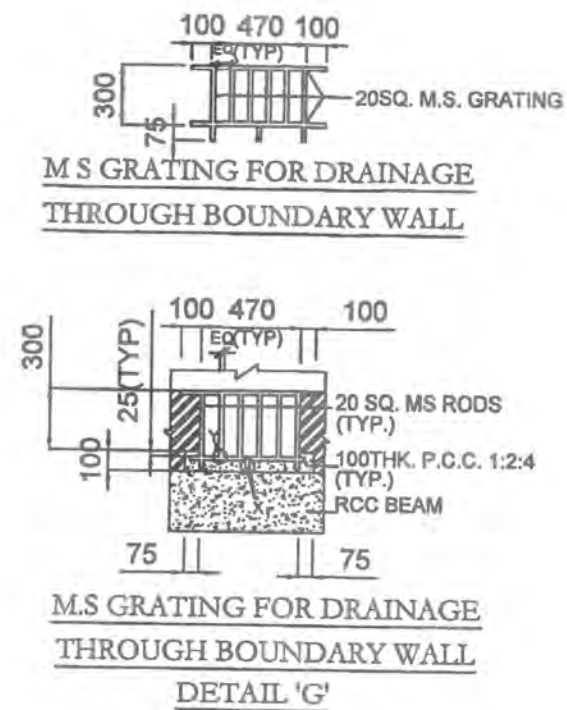
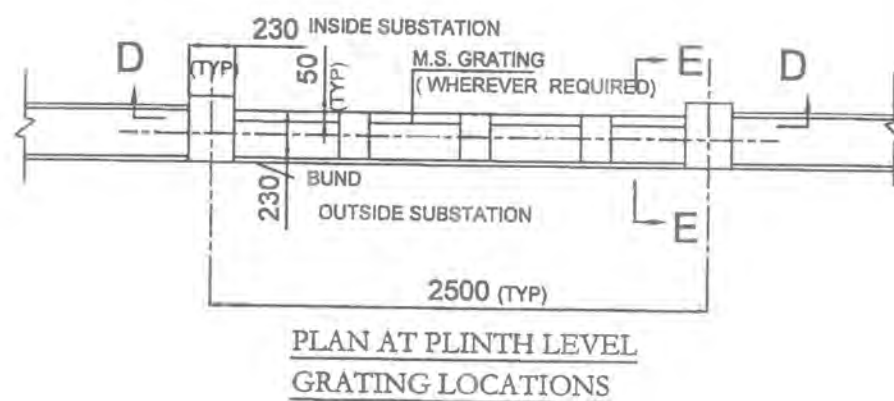
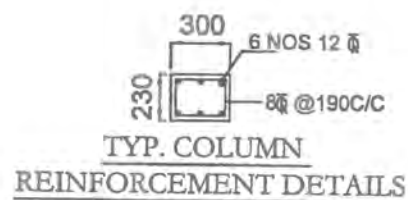
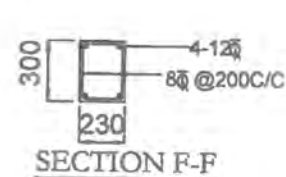
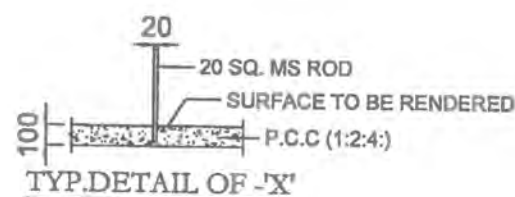
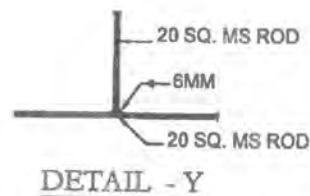
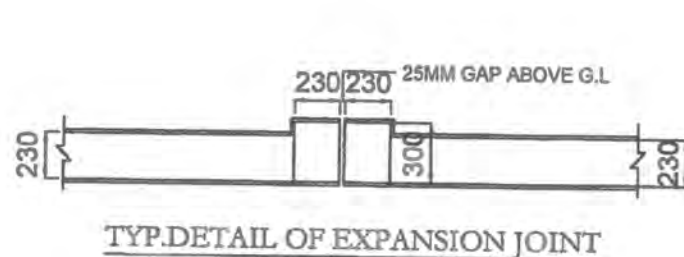
SECTION C-C

# NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. LOCATION OF BOUNDARY WALL SHALL BE AS PER GA/ DRG. LATEST APPROVED.
3. PROVIDE BRICK WORK IN ENGLISH BOND IN 1:6 CEMENT MORTAR (1CEMENT : 6 COARSE SAND).
4. CONC GROUTING FOR ANGLE POST AT TOP OF BOUNDARY WALL SHALL BE IN 1:2:4 (1CEMENT:2COARSE SAND:4 STONEAGGREGATE ).
5. BARBED WIRE SHALL BE GALVANISED STEEL BARBED WIRE AND SHALL BE IN AS A-4 IS:278 CONFORMING TO IS:278.
6. a). BRICK TO BE DONE WITH BRICK OF FIRST CLASS DESIGNATION-75  
b). PLASTER WORK SHALL BE IN CEMENT MORTAR 1:6 (1CEMENT:6 FINE SAND) THICKNESS OF PLASTER SHALL BE AS PER B.O.Q.
7. THE LAST 300mm EXCAVATION IN SOIL IS TO BE DONE JUST PRIOR TO THE PLACING OF FOUNDATION P.C.C.
8. P.C.C. OF 1:4:8 GRADE SHALL BE WITH 40mm NOMINAL SIZE AGGREGATE.
9. EXPANSION JOINTS ARE TO BE PROVIDED IN BOUNDARY WALL AT  
a). MAXIMUM OF 45.0 M.
10. ALL EXPOSED PLASTER SURFACES ARE TO BE PAINTED WITH WATER PROOFING CEMENT PAINT AS PER B O Q.
11. STRUCTURAL STEEL FOR ANGLE POSTS SHALL CONFORM TO IS:2062, ANGLE POST SHALL BE PAINTED WITH TWO OR MORE COATS OF ENAMEL PAINTS OF APPROVED BRAND AND MANUFACTURE OVER A PRIMING COAT OF APPROVED STEEL PRIMER.
12. THE RISE/FALL IN BOUNDARY WALL FOUNDATION SHALL BE PROVIDED WHEREVER THE DIFFERENCE IN GROUND LEVEL IS MORE THAN 500mm.
13. NO FOUNDATION SHALL REST ON THE FILLED UP SOIL, IF ANY, THE FOUNDATION SHALL BE MINIMUM 500mm, BELOW VERGIN SOIL.
14. THE HEIGHT OF BOUNDARY WALL EXCLUDING FENCE A TOP SHALL NOT BE MORE THAN 2500mm, ABOVE GROUND LEVEL OR FORMATION LEVEL.
15. NO. OF M.S. GRATING AND THEIR LOCATION TO BE INSTALLED IN BOUNDARY WALL ALONG WITH THE LEVELS SHALL BE DECIDED BY THE SITE AS/ THE SITE CONDITION KEEPING IN VIEW THE MAX. POSSIBLE CATCHMENT AREA FOR EACH GRATING.
16. ALL M.S SECTION USED FOR GRATING SHALL BE PAINTED WITH TWO OR MORE COATS OF BLACK ANTICORROSIVE BITUMASTIC PAINT OF APPROVED BRAND AND MANUFACTURE OVER A PRIMING COAT OF APPROVED STEEL PRIMER.
17. CONC. FOR R.C.C WORK SHALL BE OF GRADE 1:1.5:3 (1 CEMENT: 1.5 COARSE SAND : 3 GRADED STONE AGGREGATE, 20mm NOMINAL SIZE).
18. REINF. BARS SHALL BE H.Y.S.D. BARS OR TMT BARS CONFORMING TO IS:1786 LATEST REVISION.
19. STRUCTURE STEEL USED FOR GRATING SHALL CONFORM TO IS:2062 LATEST EDITION.
20. LAP/ANCHORAGE SHALL BE 50 X DIA OF BAR
21. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS  
a) FOOTING - 50MM (b) SLAB - 20MM (c) COLOUMN - 40MM,  
d) BEAMS - 25MM
22. TOP OF PLINTH BEAM SHALL BE REDUCED BY 100mm WHEREVER MS GRATING IS TO BE PROVIDED
23. INCASE BLACK COTTON SOIL IS ENCOUNTERED SUITABLE TREATMENT IN FOUNDATION SHALL BE PROVIDED.
24. BACKFILL SOIL SHALL BE WELL COMPACTED TO AVOID THE SETTLEMENT OF EARTH.
25. THE SURPLUS EARTH GENERATED FROM FOUNDATION SHALL BE DISPOSED ALONG THE BOUNDARY WALL AND THE SAME SHALL BE ROUGHLY GRADED

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : STANDARD BOUNDARY WALL ( Sh 1-7 )



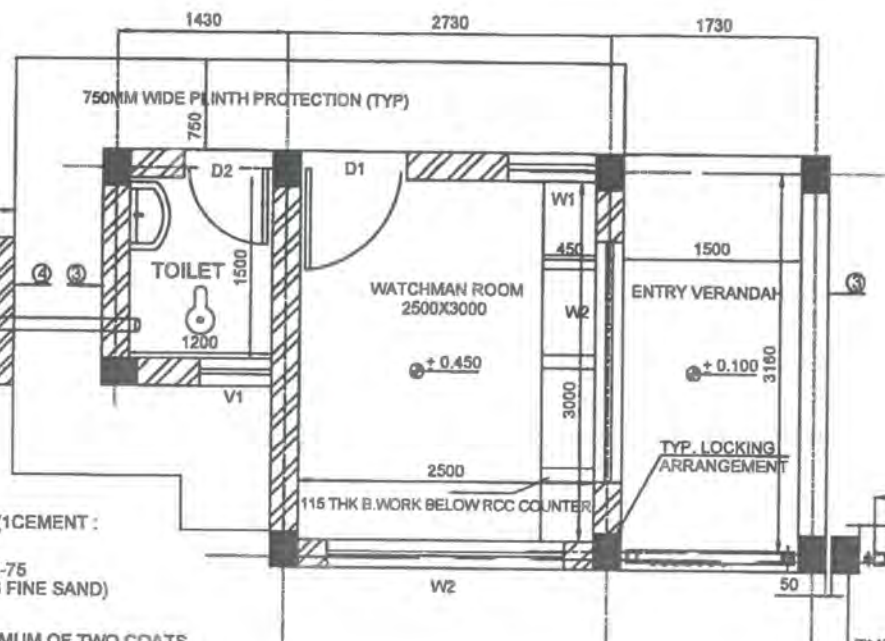
INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : STANDARD BOUNDARY WALL ( Sh 2-7 )





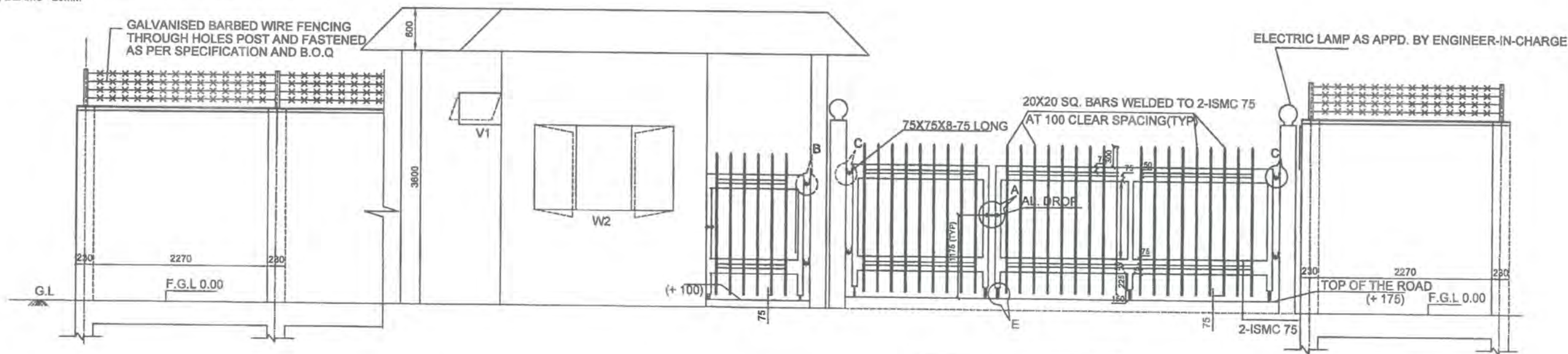
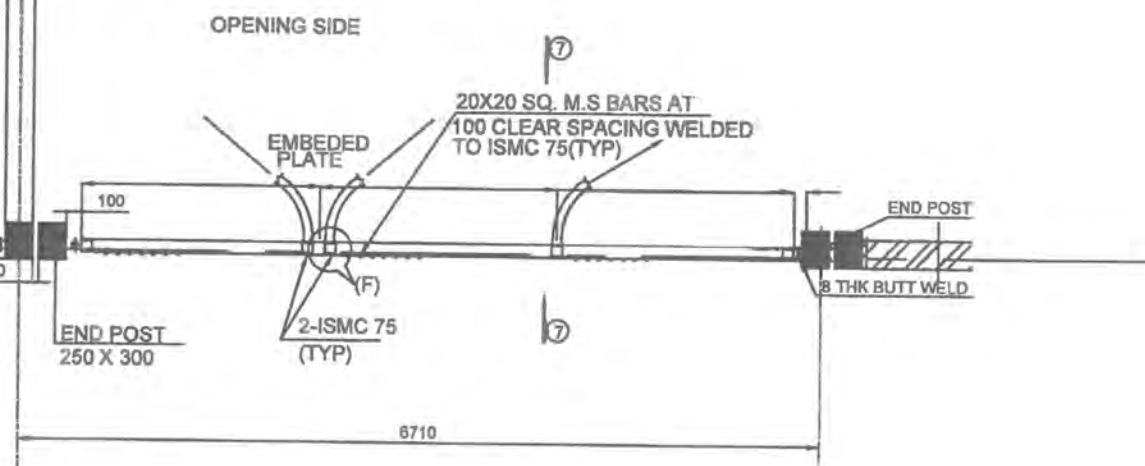
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. PROVIDE BRICK WORK IN ENGLISH BOND IN 1:8 CEMENT MORTAR (1CEMENT : 6 COARSE SAND).
3. a). BRICK TO BE DONE WITH BRICK OF FIRST CLASS DESIGNATION-75  
b). PLASTER WORK SHALL BE IN CEMENT MORTAR 1:8 (1CEMENT:6 FINE SAND) THICKNESS OF PLASTER SHALL BE AS PER B.O.Q.
4. ALL EXPOSED PLASTER SURFACES ARE TO BE PAINTED WITH MINIMUM OF TWO COATS OF COLOUR WASH OVER A BASE COAT OF WHITE WASH WITH LIME.
5. ALL STRUCTURAL STEEL SHALL CONFORM TO IS:2082, AND SHALL BE PAINTED WITH TWO OR MORE COATS OF ENAMEL PAINTS OF APPROVED BRAND AND MANUFACTURE OVER A PRIMING COAT OF APPROVED STEEL PRIMER.
6. CONC. FOR R.C.C WORK SHALL BE OF GRADE 1:1.5:3 (1 CEMENT: 1.5 COARSE SAND : 3 GRADED STONE AGGREGATE, 20mm NOMINAL SIZE).
7. REINF. BARS SHALL BE H.Y.S.D. BARS CONFORMING TO IS:1786 LATEST REVISION.
8. STRUCTURE STEEL USED FOR GRATING SHALL CONFORM TO IS:2062 LATEST EDITION.
9. LAP/ANCHORAGE SHALL BE 50 X DIA OF BAR
10. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS
  - a) FOOTING - 50MM (b) SLAB - 20MM (c) COLOUMN - 40MM,
  - d) BEAMS - 25MM



### PLAN OF SECURITY ROOM & GATE

### DOOR WINDOW SCHEDULE

TYPE	SIZE	SILL LEVEL	LINTEL LEVEL	TOTAL NOS
D1	900X2100	+0.450	+2.55	1
D2	760X2100	+0.450	+2.55	1
W1	900X1200	+1.350	+2.55	1
W2	2000X1200	+1.350	+2.55	2
V1	600X450	+2.100	+2.55	1

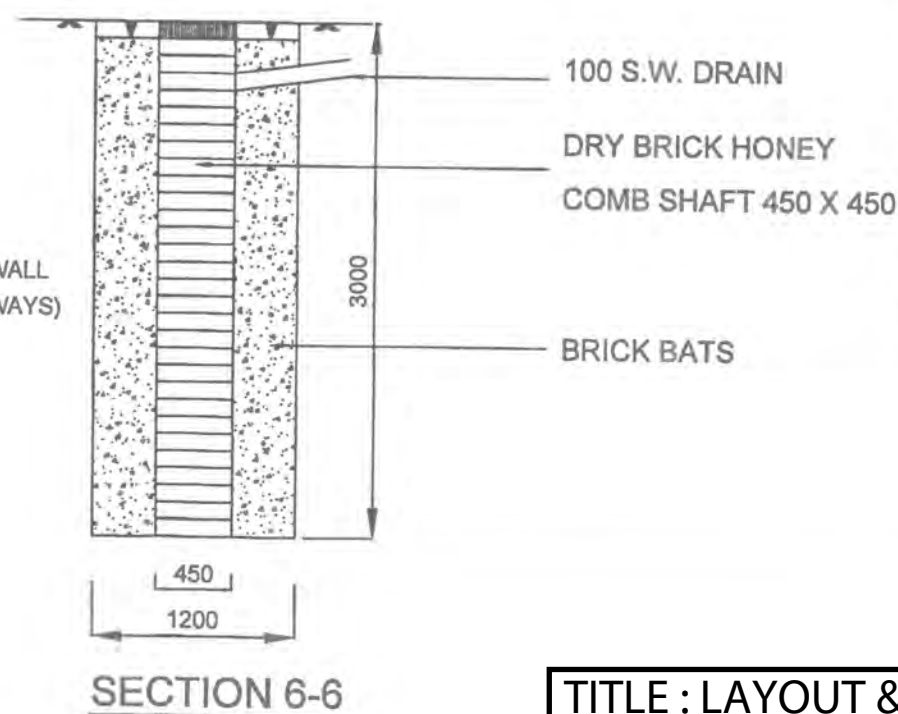
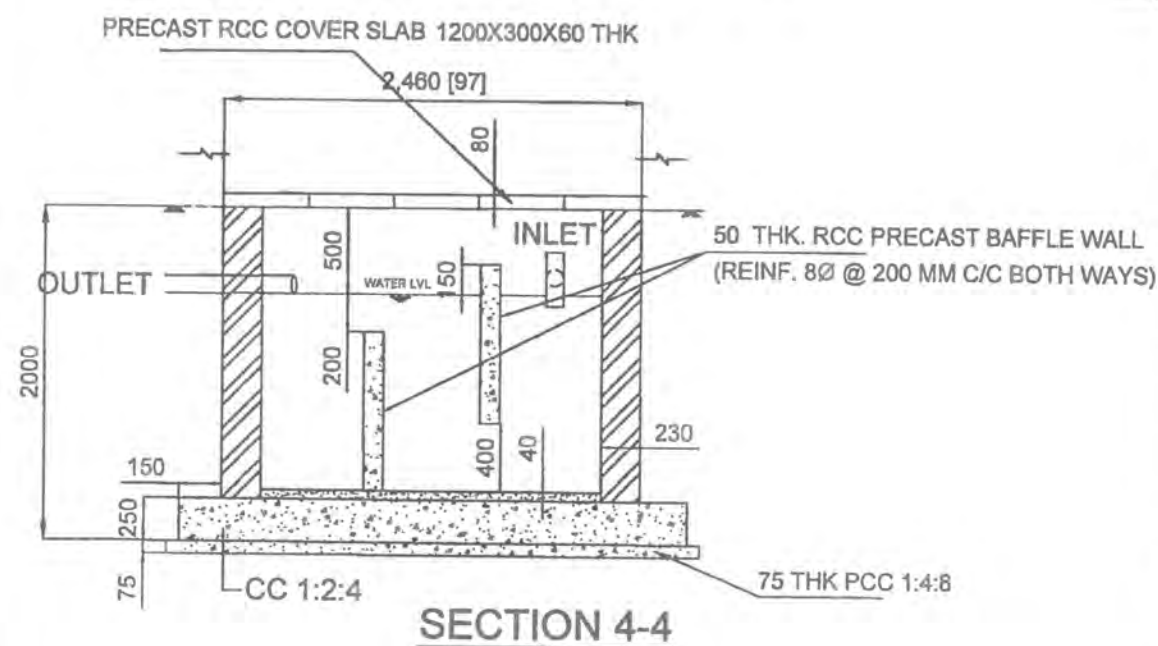
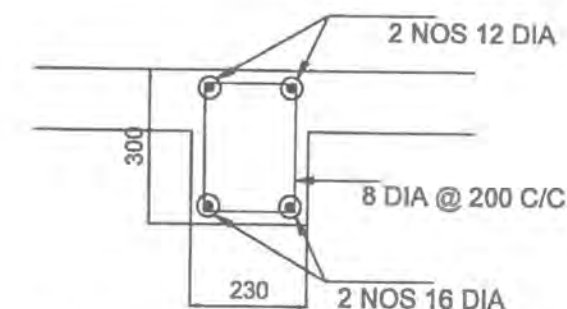
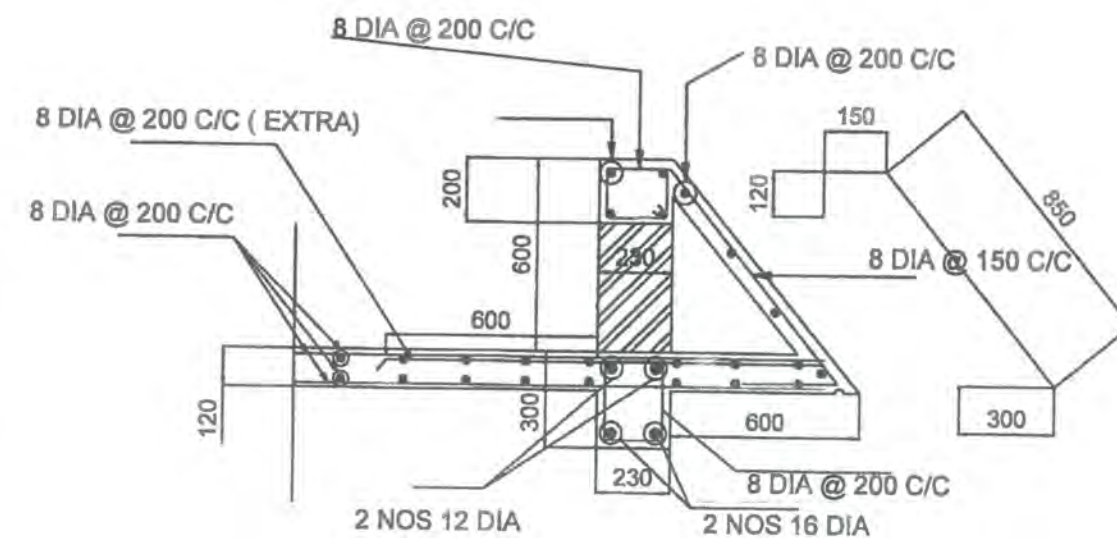
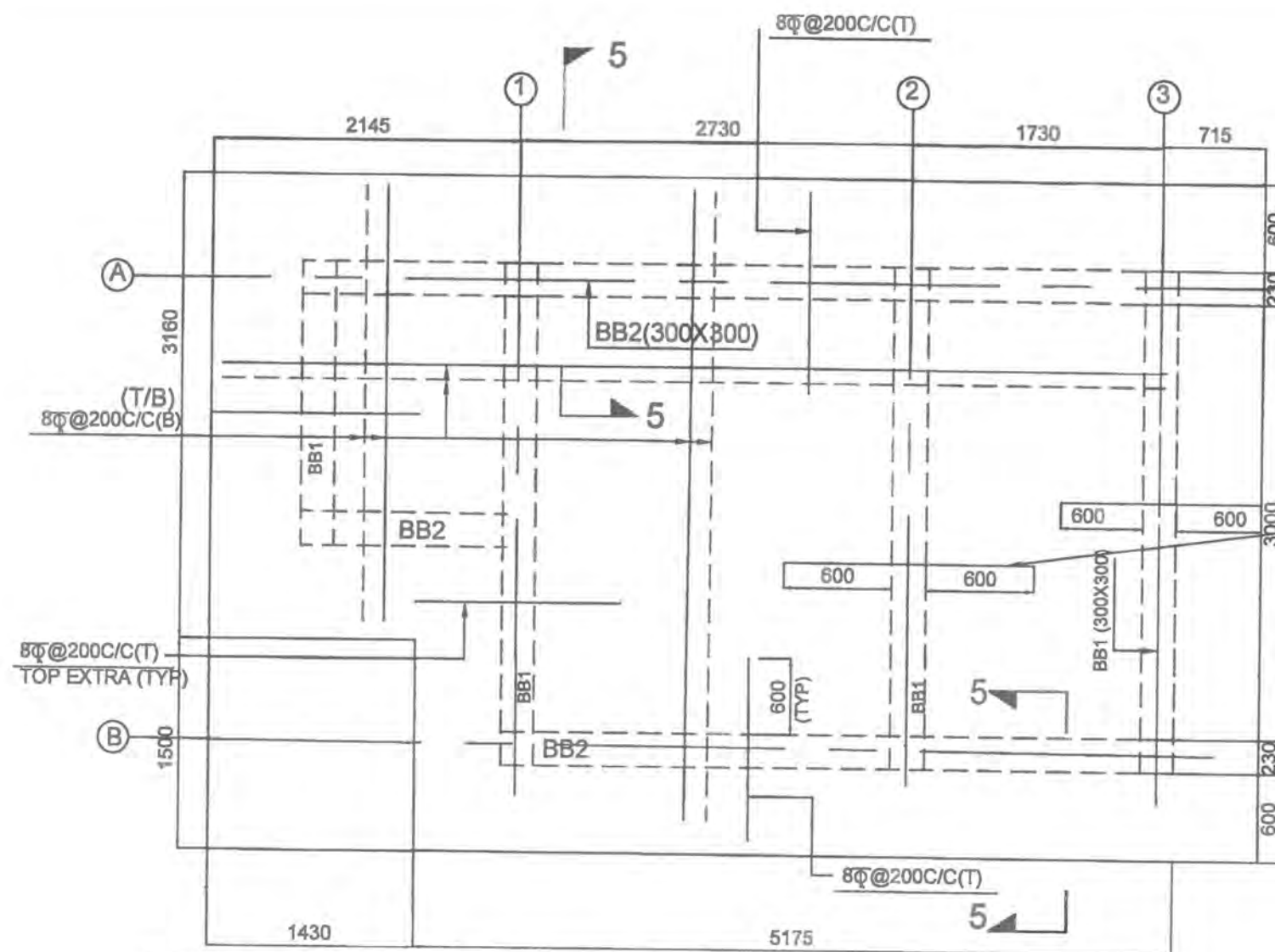


FRONT ELEVATION OF SECURITY ROOM & GATE

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

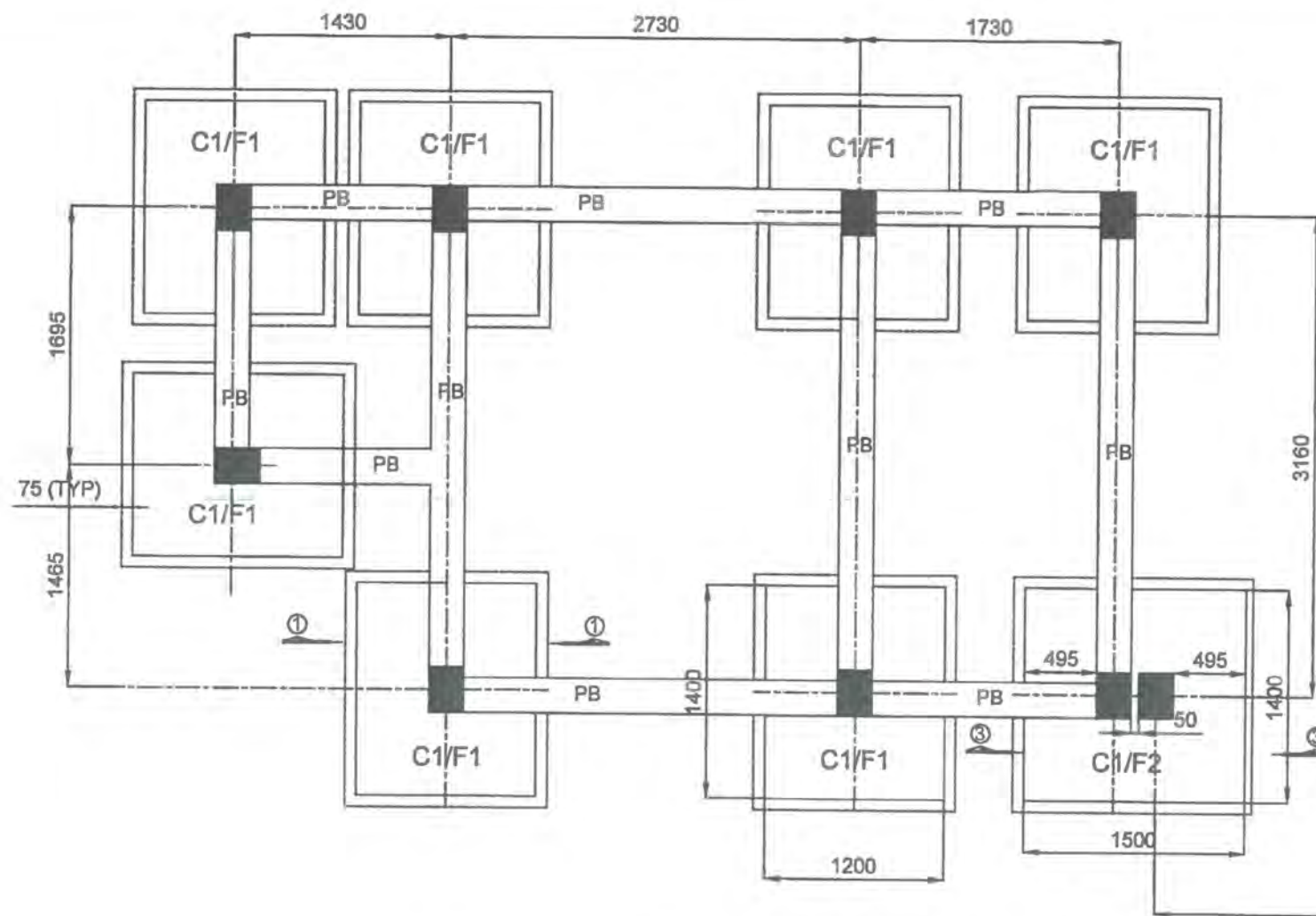
**TITLE : LAYOUT & PLAN SECURITY ROOM & GATE ( Sh 3-7)**





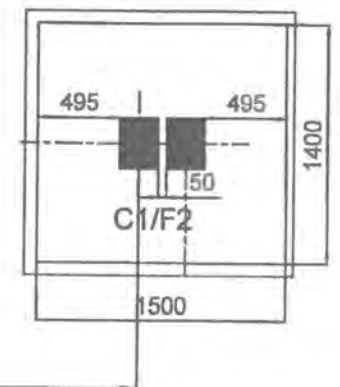
- NOTES:**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
  2. CONC. FOR R.C.C WORK SHALL BE OF GRADE 1:1.5:3  
(1 CEMENT: 1.5 COARSE SAND: 3 GRADED STONE AGGREGATE)
  3. REINF. BARS SHALL BE H.Y.S.D. BARS CONFORMING TO IS:1786  
LATEST REVISION.
  4. LAP/ANCHORAGE SHALL BE 50 X DIA OF BAR
  5. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS
    - a) FOOTING - 50MM (b) SLAB - 20MM (c) COLUMN - 40MM,
    - d) BEAMS - 25MM
  6. PROVIDE 230 THK BRICK WORK IN ENGLISH BOND IN 1:6 CEMENT MORTAR (1CEMENT  
6 COARSE SAND). & 115 THK BRICKWORK IN 1:4 CEMENT MORTAR
  7. a). BRICK TO BE DONE WITH BRICK OF FIRST CLASS DESIGNATION-75  
b). PLASTER WORK SHALL BE IN CEMENT MORTAR 1:6 (1CEMENT:6 FINE SAND)  
THICKNESS OF PLASTER SHALL BE 12MM ON SMOOTH SIDE &  
15 MM ON ROUGH SIDE.

**TITLE : LAYOUT & PLAN SECURITY ROOM & GATE ( Sh 4-7 )**

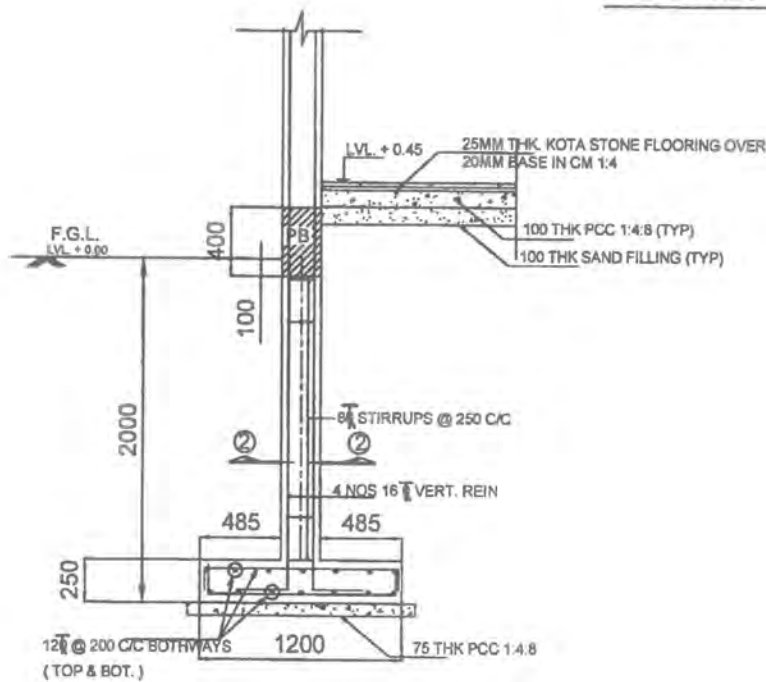


#### NOTES:

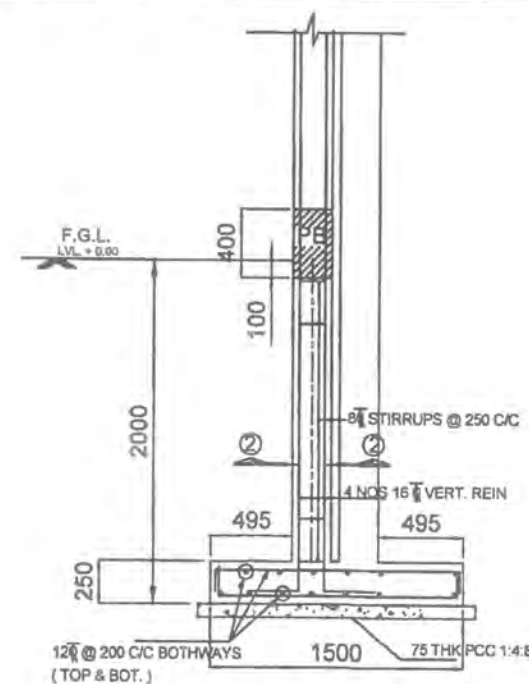
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. LOCATION OF SECURITY ROOM SHALL BE AS PER GA/ DRG. LATEST APPROVED.
3. THE LAST 300mm EXCAVATION IN SOIL IS TO BE DONE JUST PRIOR TO THE PLACING OF FOUNDATION P.C.C.
4. P.C.C. OF 1:4:8 GRADE SHALL BE WITH 40mm NOMINAL SIZE AGGREGATE.
5. CONC. FOR R.C.C WORK SHALL BE OF GRADE 1:1.5:3 (1 CEMENT: 1.5 COARSE SAND : 3 GRADED STONE AGGREGATE, 20mm NOMINAL SIZE).
6. REINF. BARS SHALL BE H.Y.S.D. BARS CONFORMING TO IS:1786 LATEST REVISION.
7. LAP/ANCHORAGE SHALL BE 50 X DIA OF BAR
8. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS
  - a) FOOTING - 50MM (b) SLAB - 20MM (c) COLOUMN - 40MM,
  - d) BEAMS - 25MM



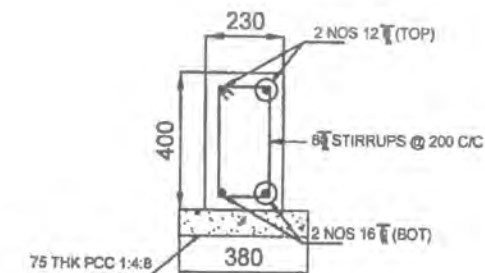
### FOUNDATION LAYOUT OF SECURITY ROOM & GATE



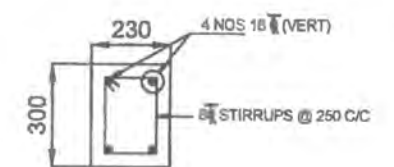
SECTION 1-1



SECTION 3-3



DETAIL OF PB (TYP)

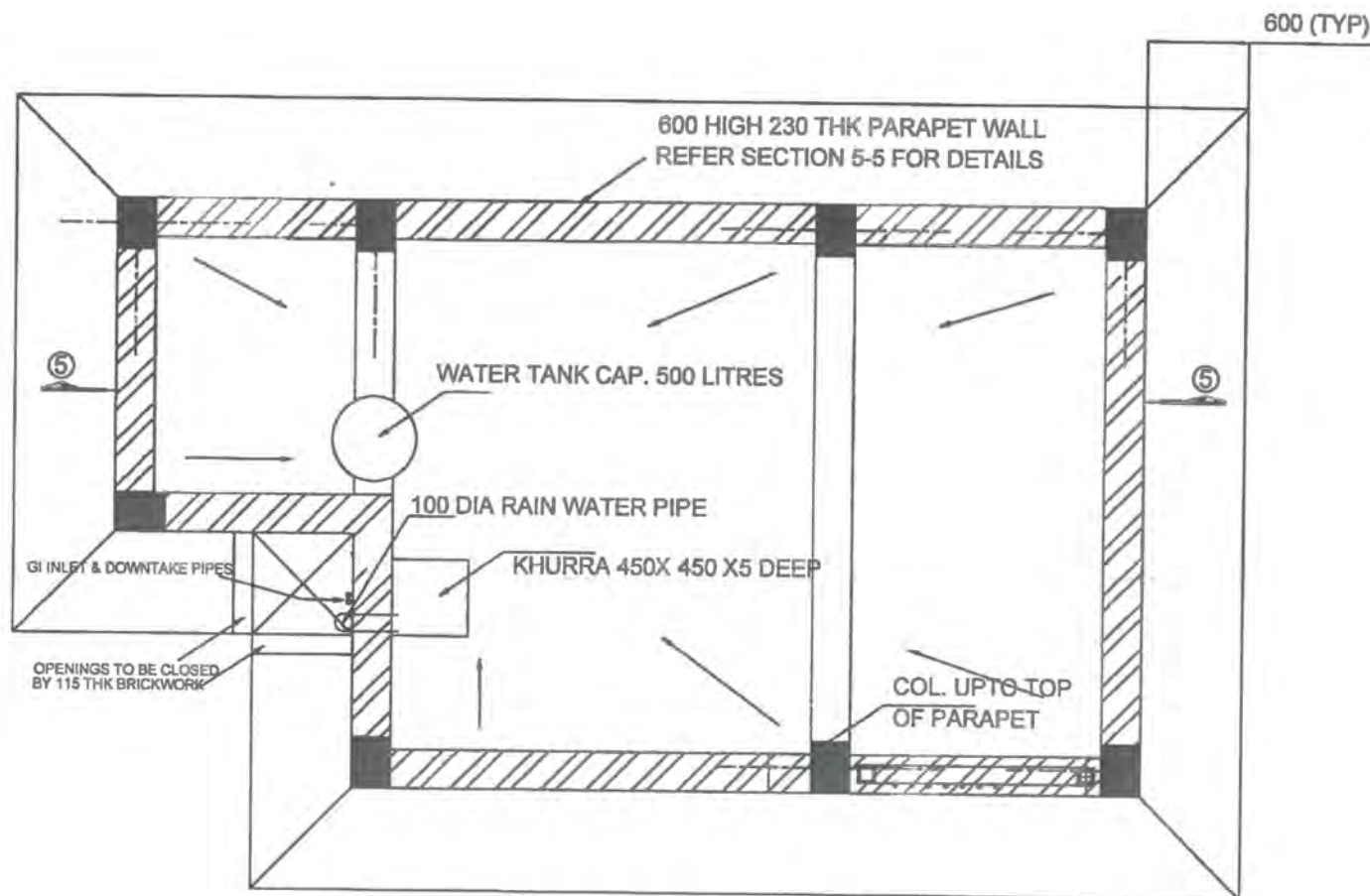


SECTION 2-2

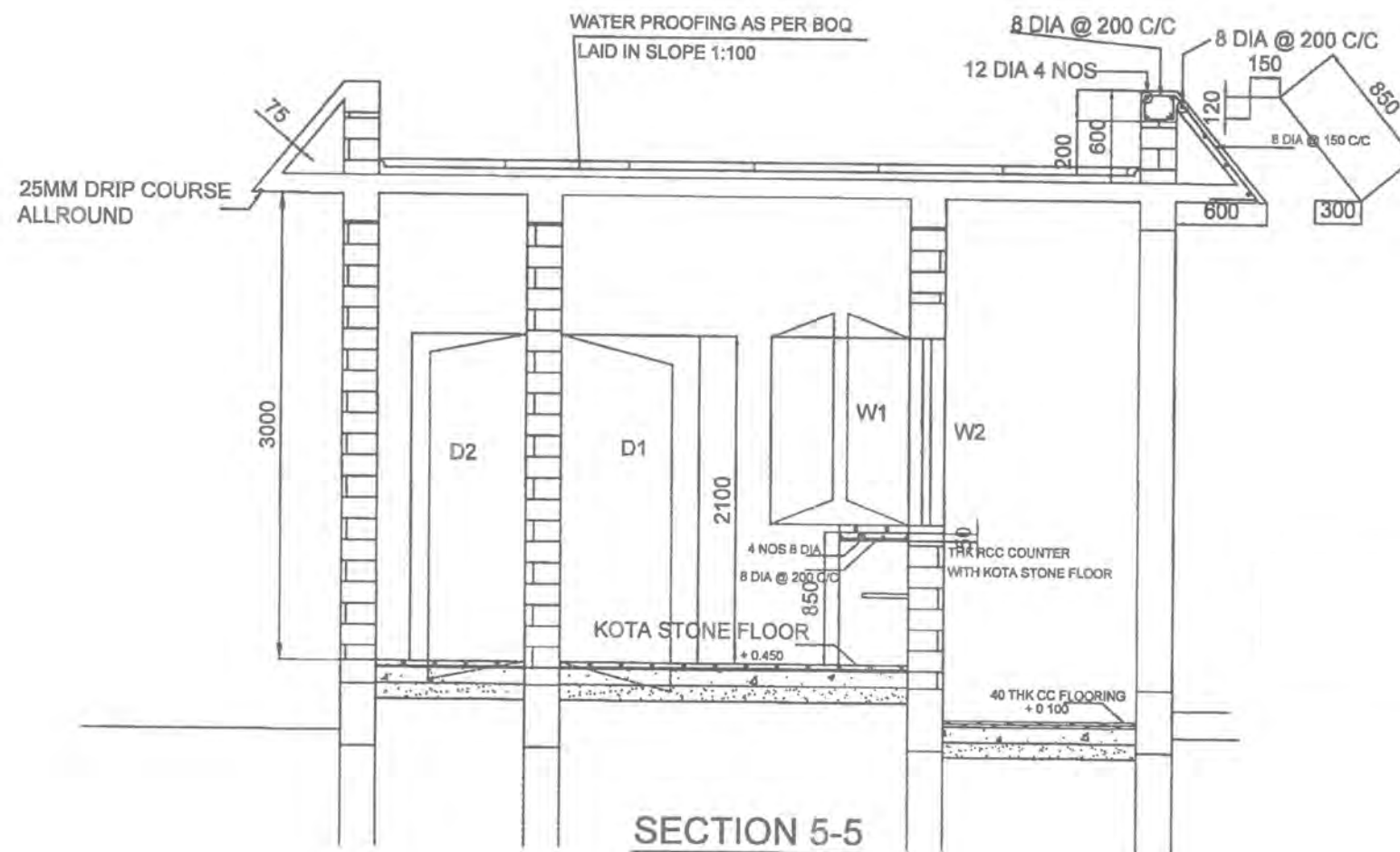
INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : SECURITY ROOM & GATE DETAILS ( Sh 5-7 )



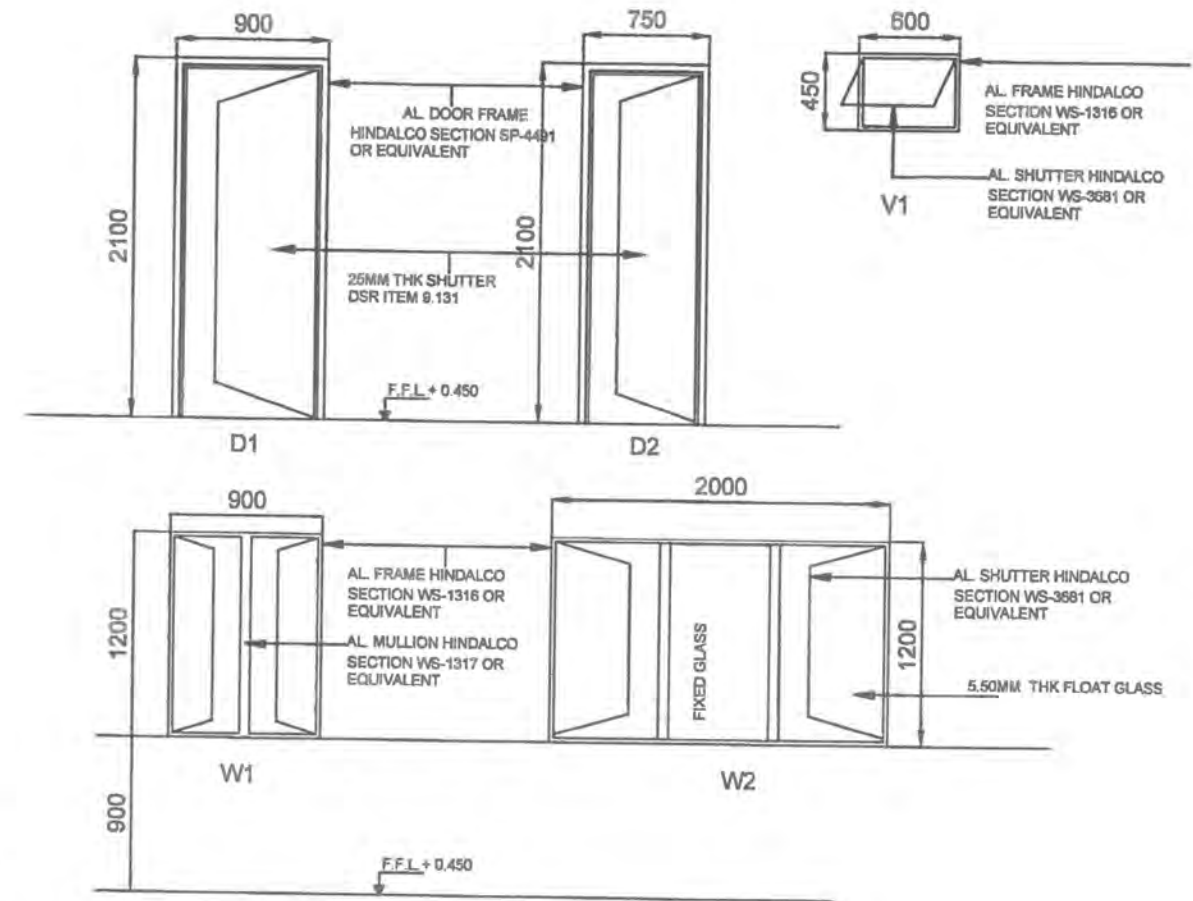


**ROOF PLAN**



**SECTION 5-5**

## DETAILS OF AL. DOORS, WINDOWS & VENTILATORS

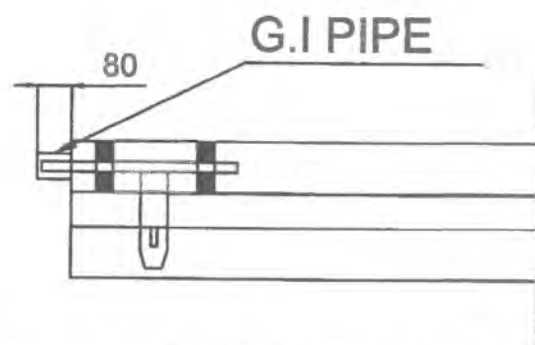


### NOTES:

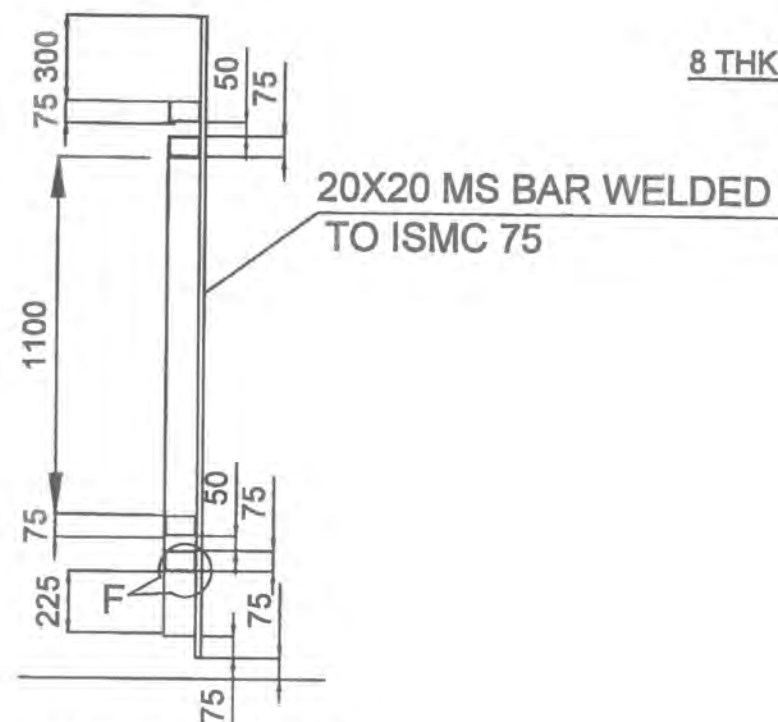
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. PROVIDE 230 THK BRICK WORK IN ENGLISH BOND IN 1:6 CEMENT MORTAR (1CEMENT : 6 COARSE SAND). & 115 THK BRICKWORK IN 1:4 CEMENT MORTAR
3. a). BRICK TO BE DONE WITH BRICK OF FIRST CLASS DESIGNATION-75  
b). PLASTER WORK SHALL BE IN CEMENT MORTAR 1:6 (1CEMENT:6 FINE SAND)  
THICKNESS OF PLASTER SHALL BE 12 MM ON SMOOTH SIDE & 15 MM ON ROUGH SIDE.
4. ALL EXPOSED PLASTER SURFACES ARE TO BE PAINTED WITH MINIMUM OF TWO COATS OF COLOUR WASH OVER A BASE COAT OF WHITE WASH WITH LIME.

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

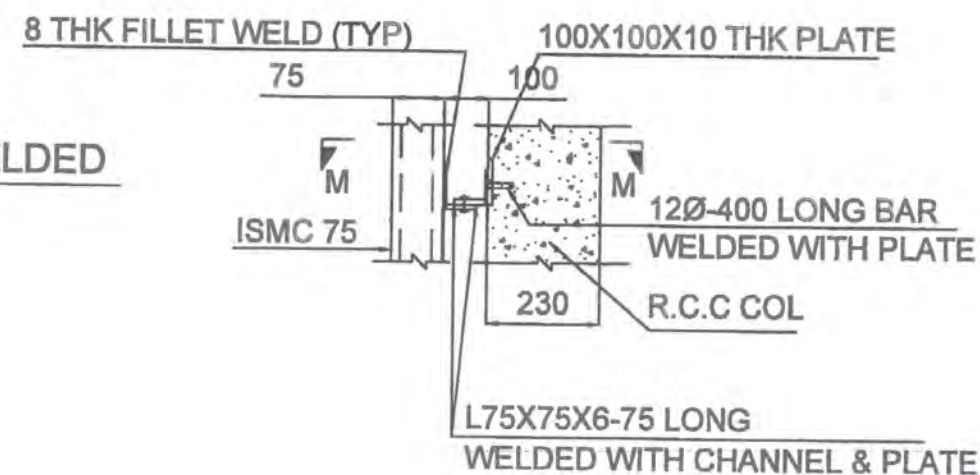
**TITLE : SECURITY ROOM & GATE DETAILS ( Sh 6-7 )**



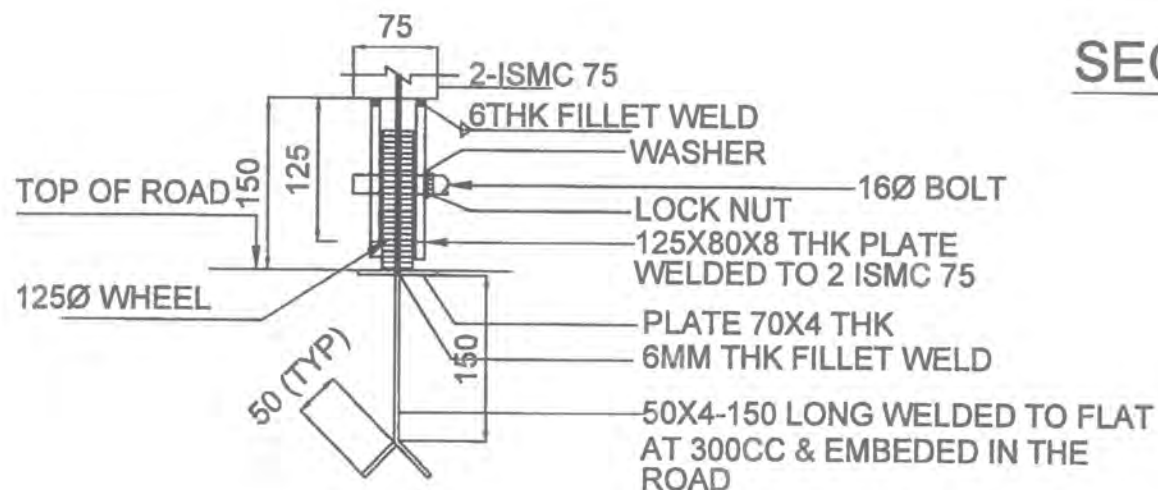
**TYPICAL LOCKING ARRANGEMENT  
DETAIL-A**



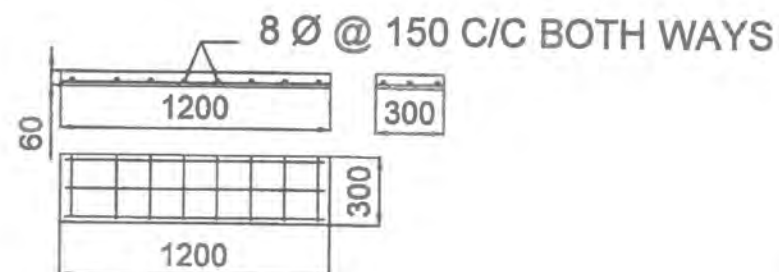
**SECTION 7-7**



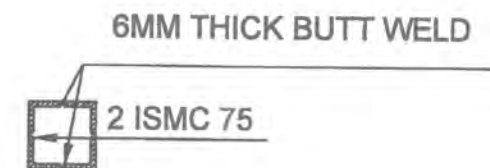
**DETAIL-B & C**



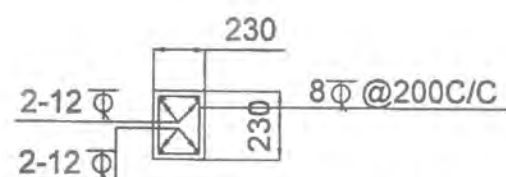
**DETAIL-E**



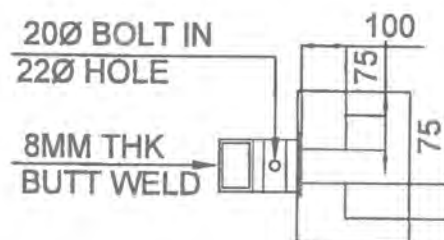
**PRECAST COVER SLAB**



**DETAIL-F**



**CROSS SEC. OF LINTEL**



**SECTION M-M**

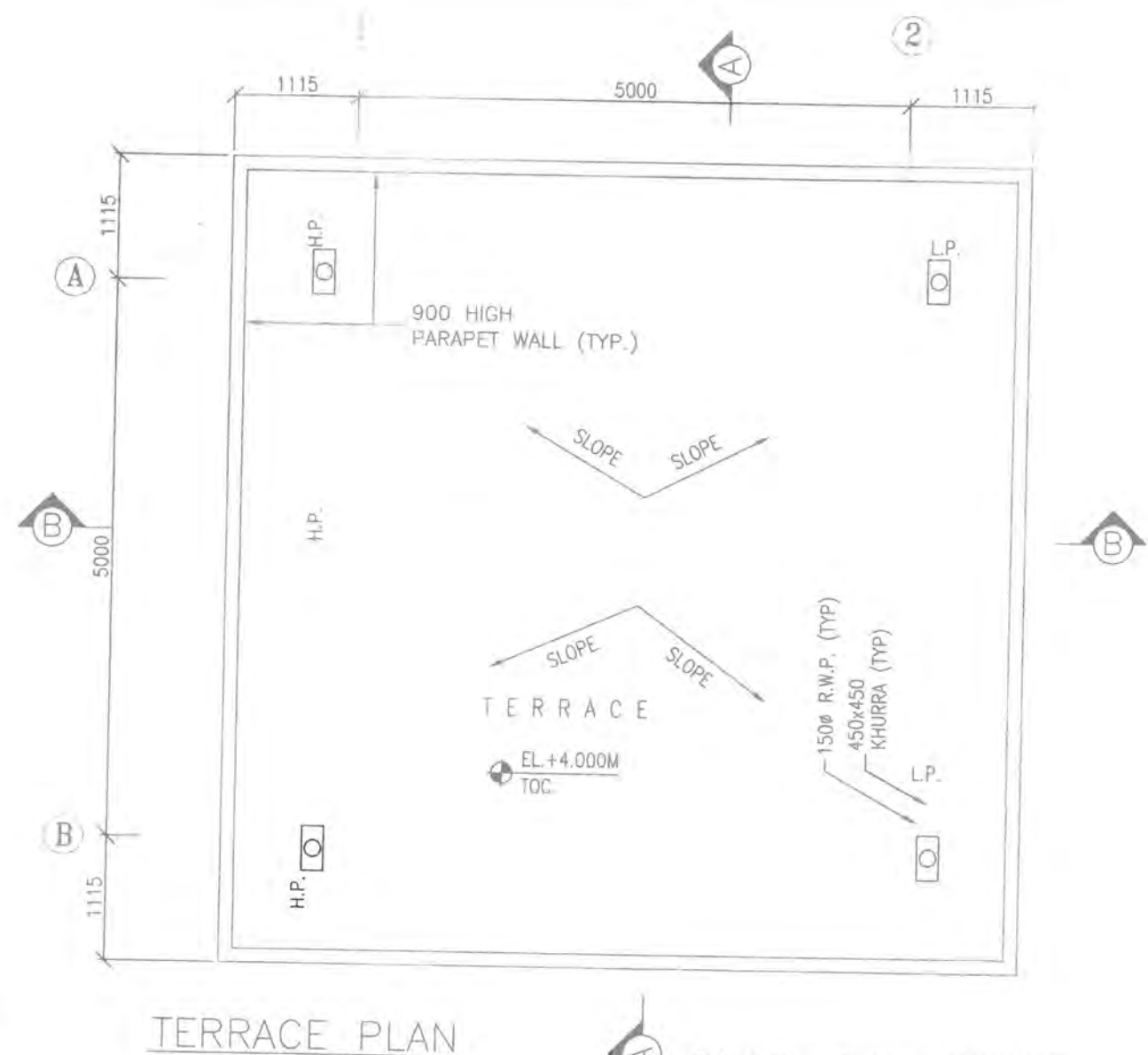
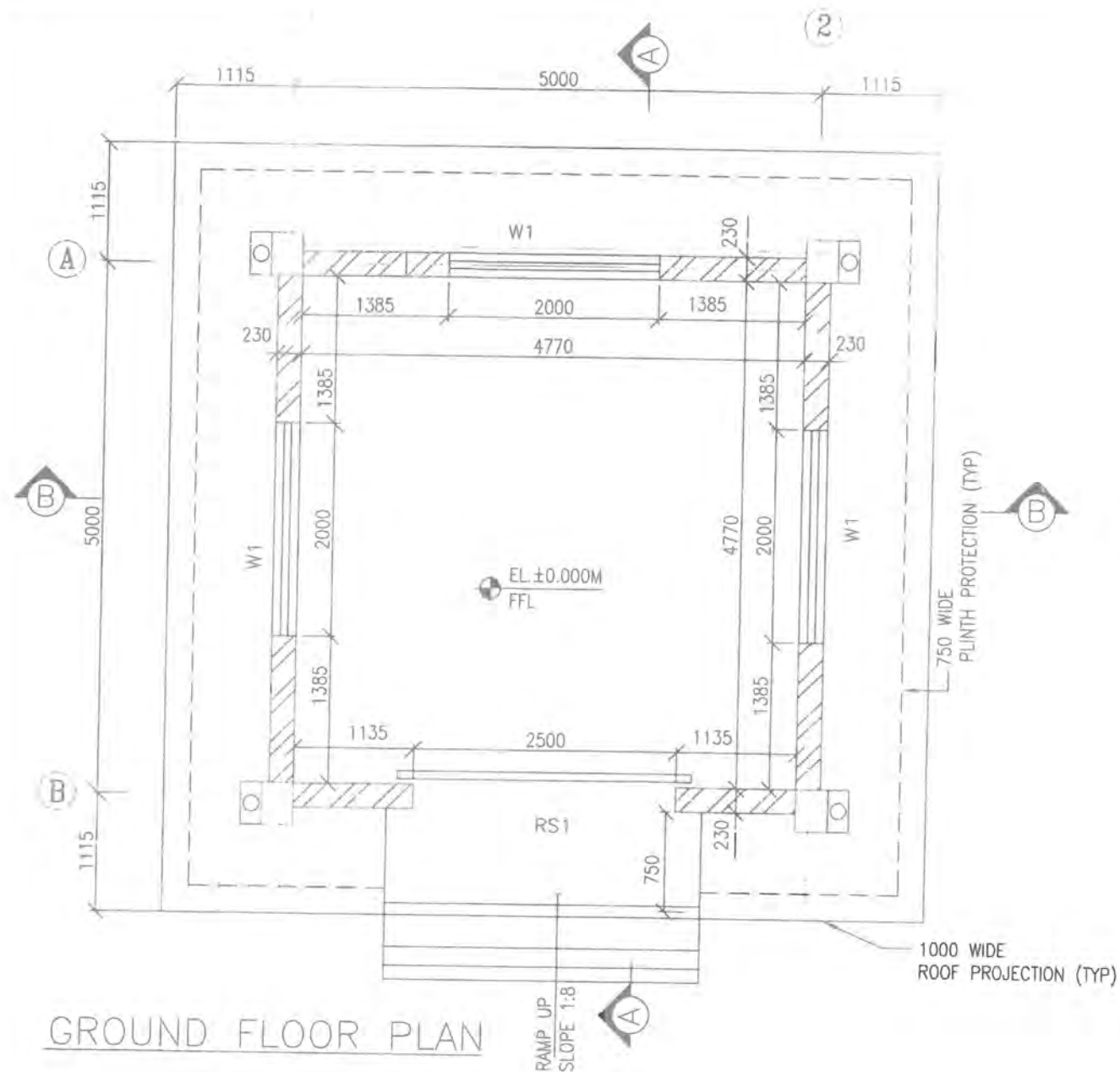
**NOTES:**

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. STRUCTURAL STEEL USED SHALL CONFORM TO IS:2062, AND SHALL BE PAINTED WITH TWO OR MORE COATS OF ENAMEL PAINT OF APPROVED BRAND OVER A PRIMING COAT OF APPD. PRIMER

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

**TITLE : SECURITY ROOM & GATE DETAILS ( Sh 7-7 )**





Note:-

- 1) All Dimensions are in MM and Level in Meters.
- 2) For other details please refer drawing no. C/Engg/STD/SIN/FFP/11/2, Sheet 4 of 4.

#### SCHEDULE OF FINISHES

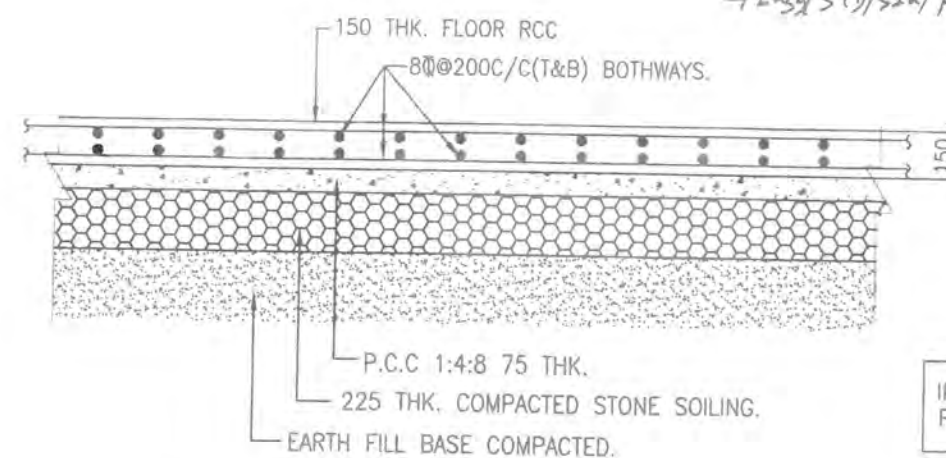
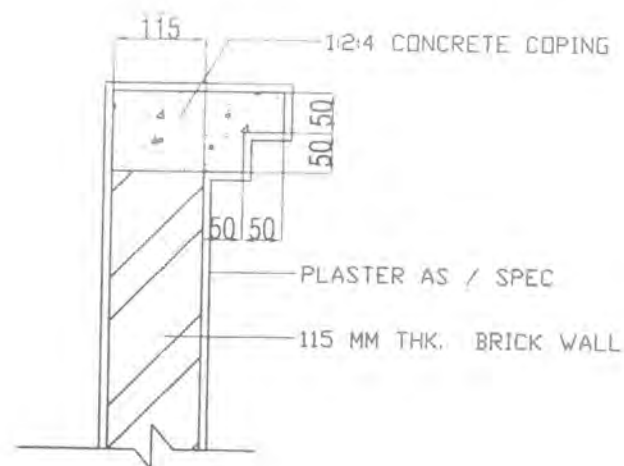
##### 1.0 BRICK WORK:

- 1.1 230mm THK. BRICK MASONRY IN C.M. (1:6)

##### 2.0 FLOORING:

- 3.1 HARDCRETE FLOORING
- 3.2 SKIRTING:  
150 HIGH SKIRTING MATCHING WITH THE FLOOR SHALL BE PROVIDED.

- 3.0 PLASTERING & FINISHING DETAILS SHALL BE AS PER SPECIFICATION

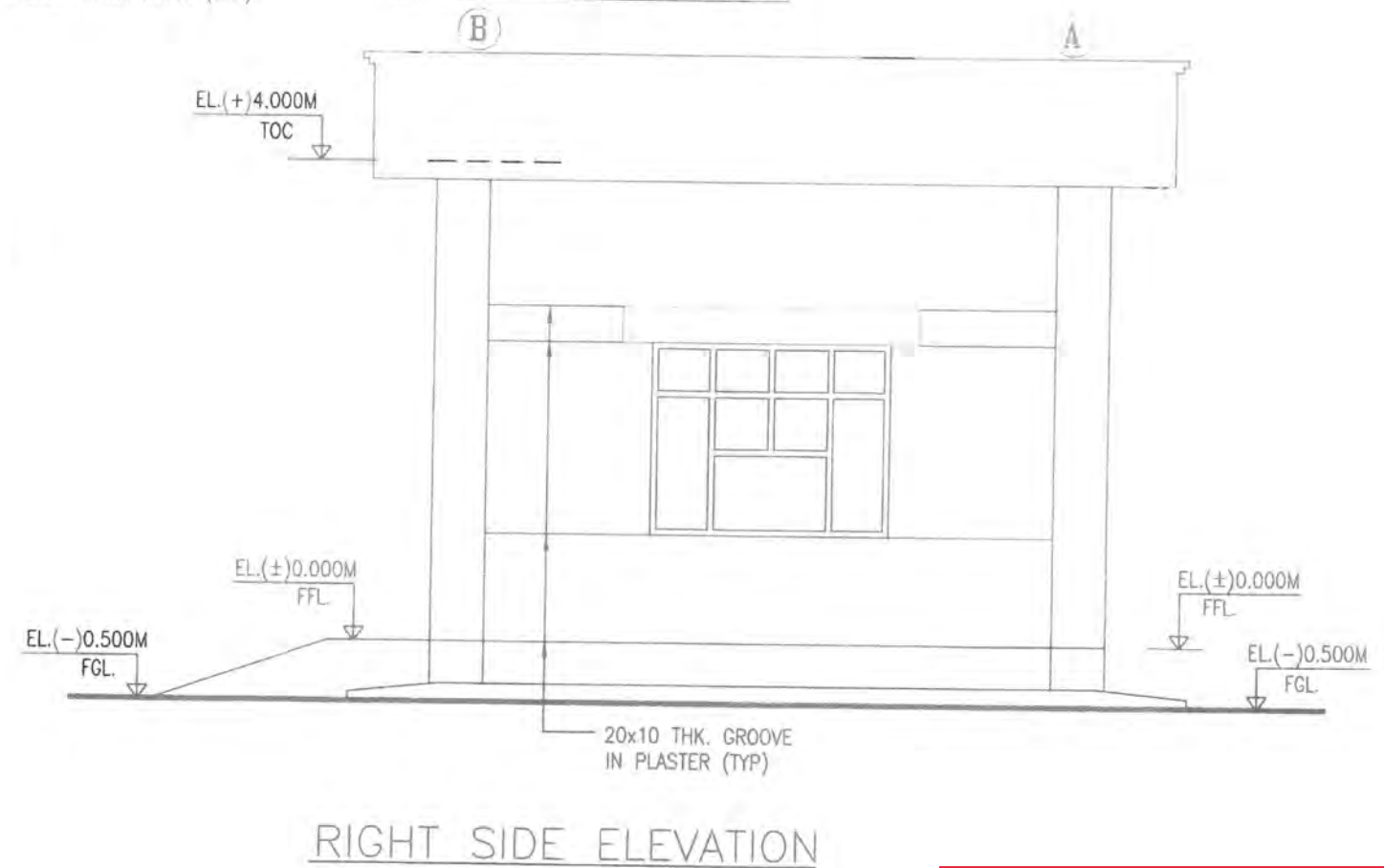
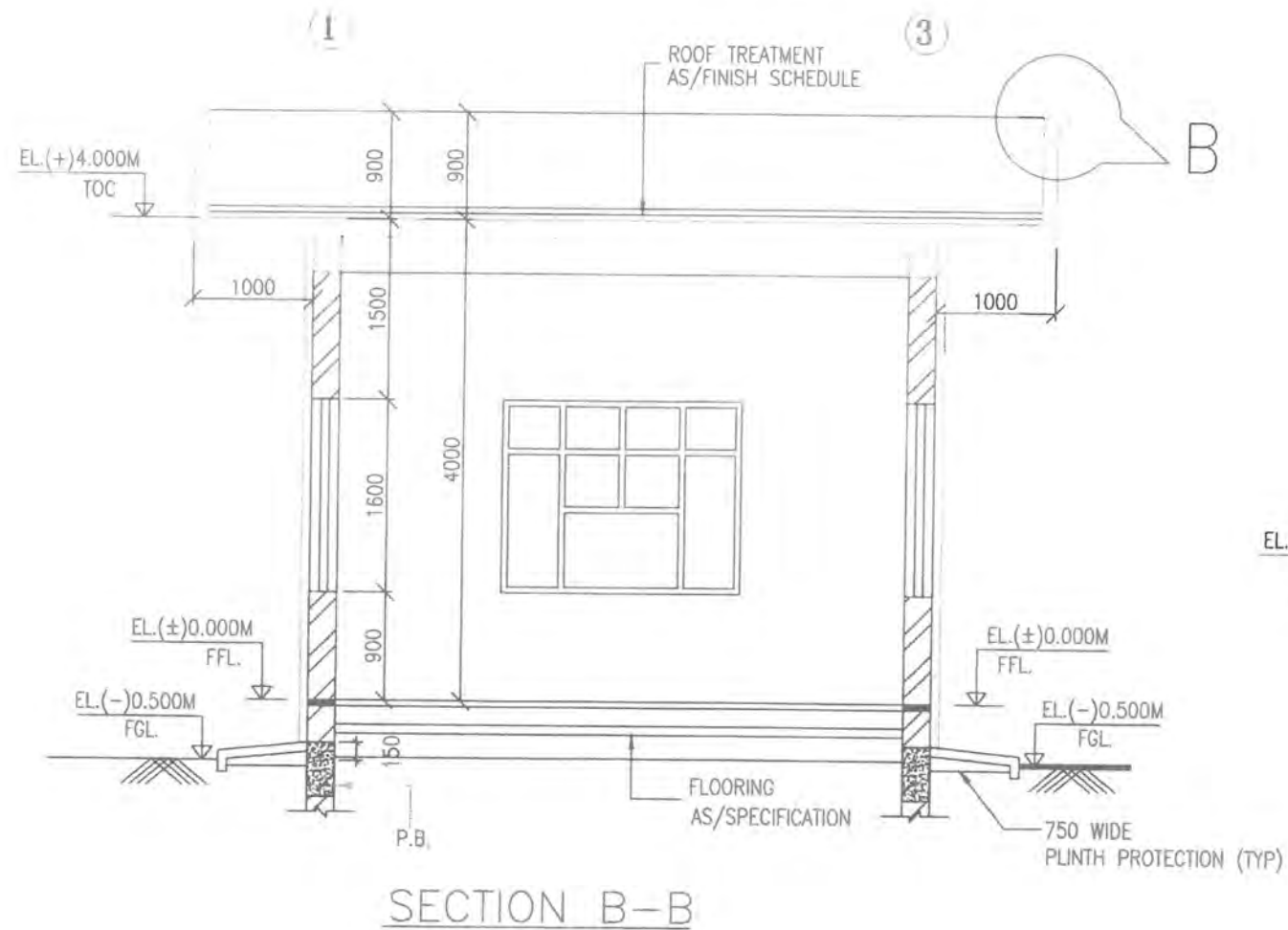
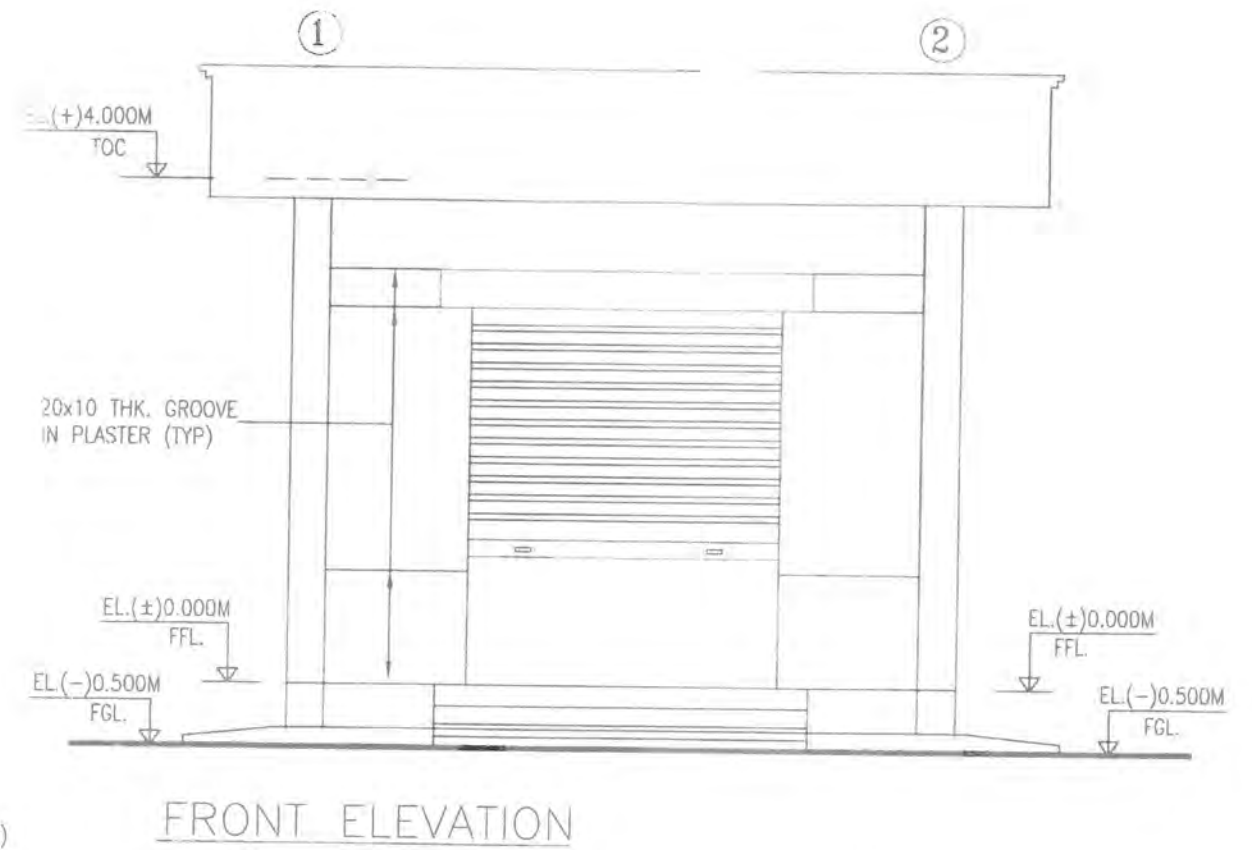
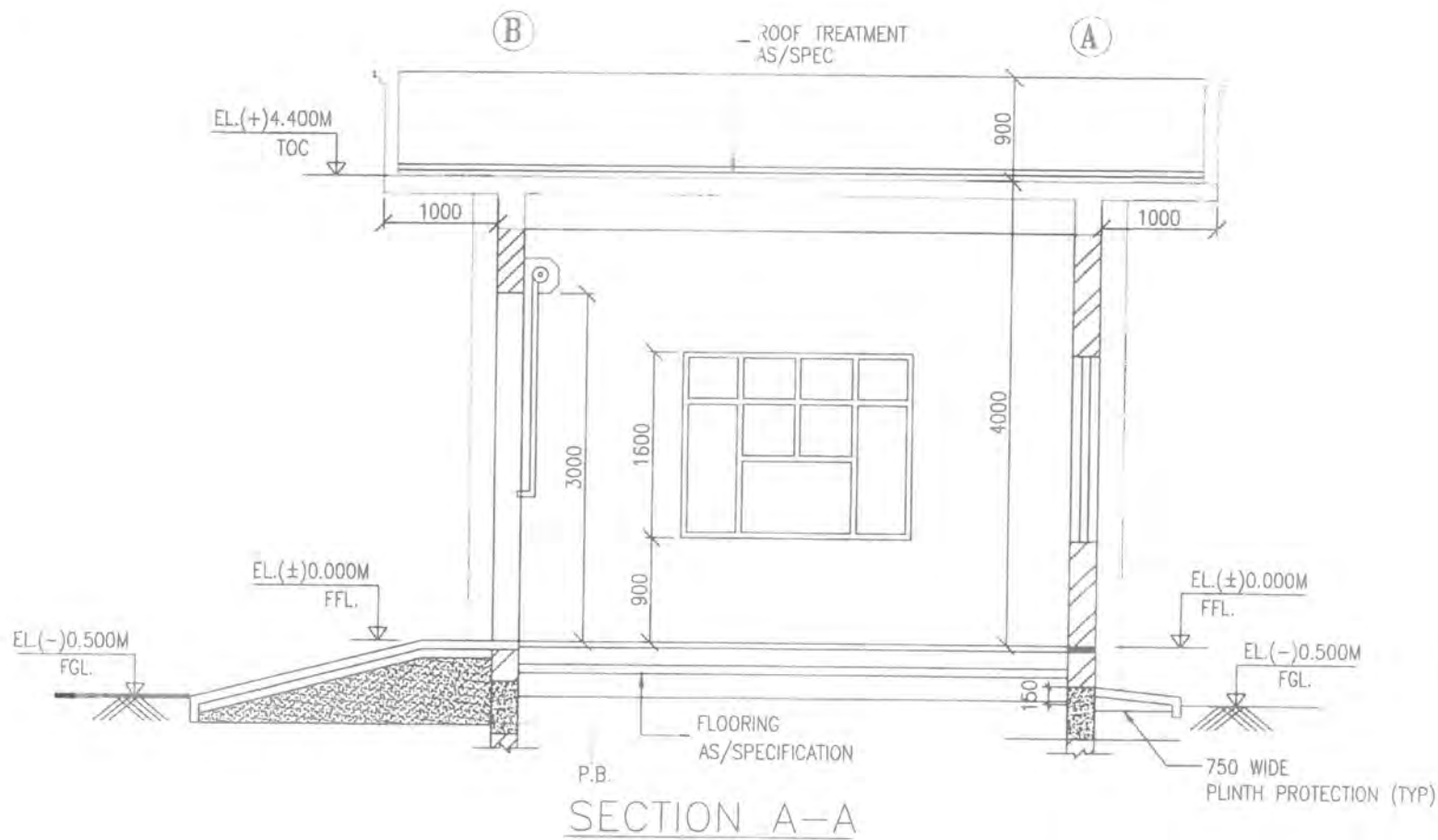


INTERNAL FLOORING SHALL BE AS PER FF EQUIPMENT LAYOUT

INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

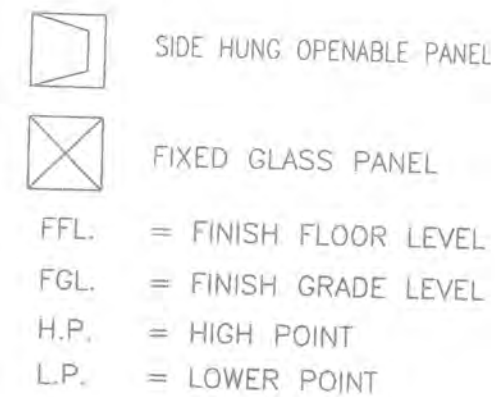
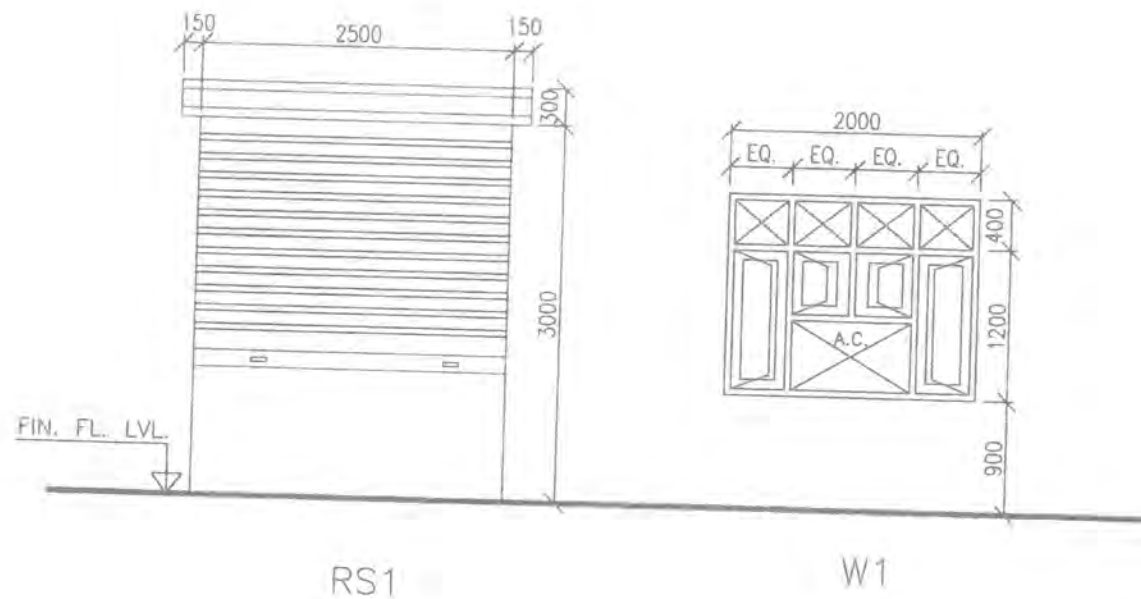
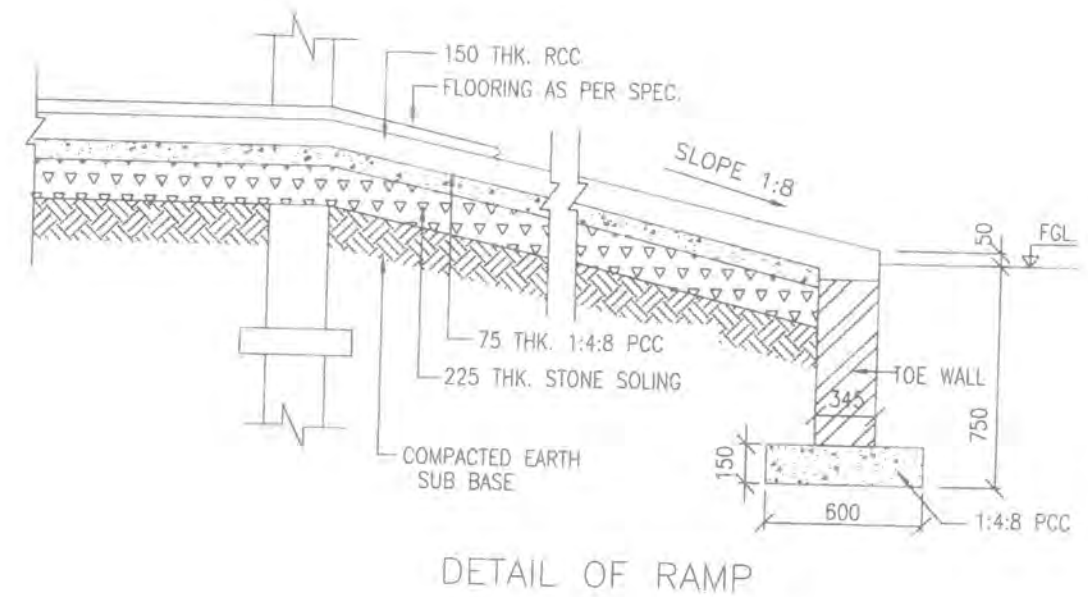
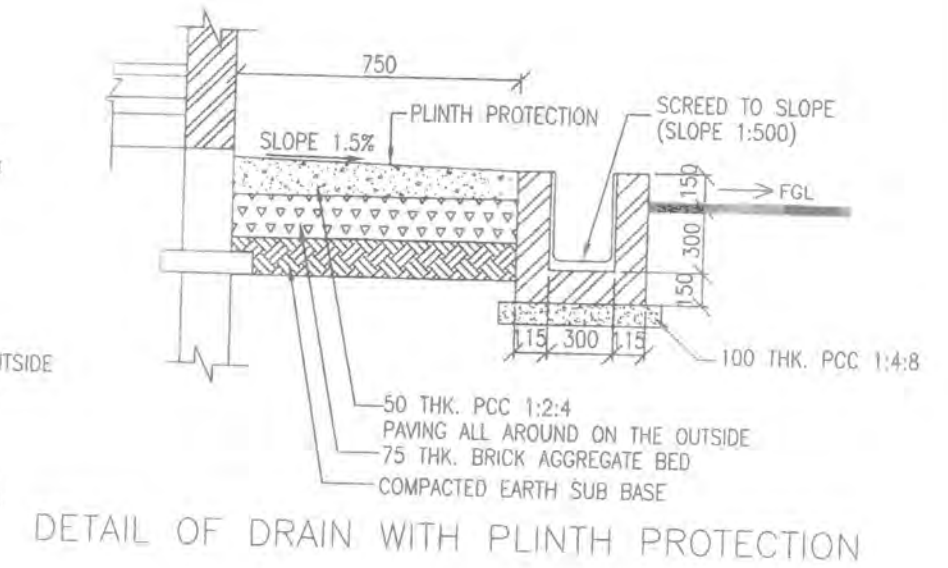
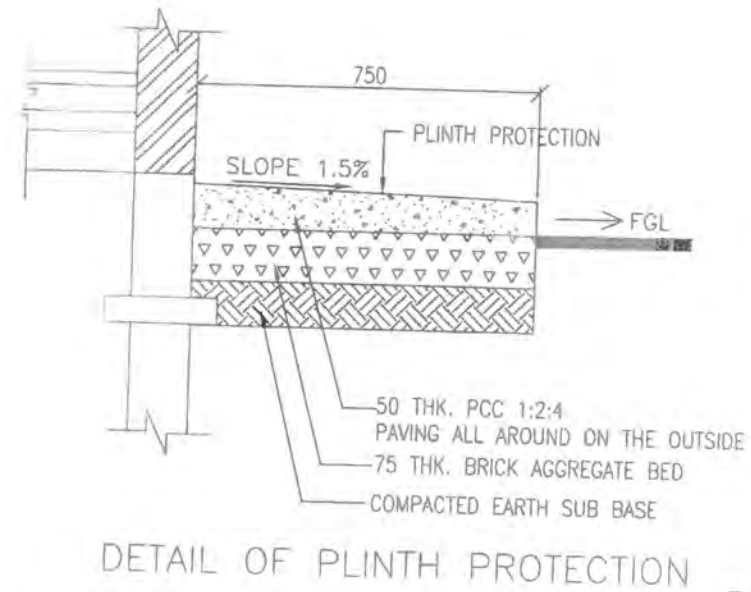
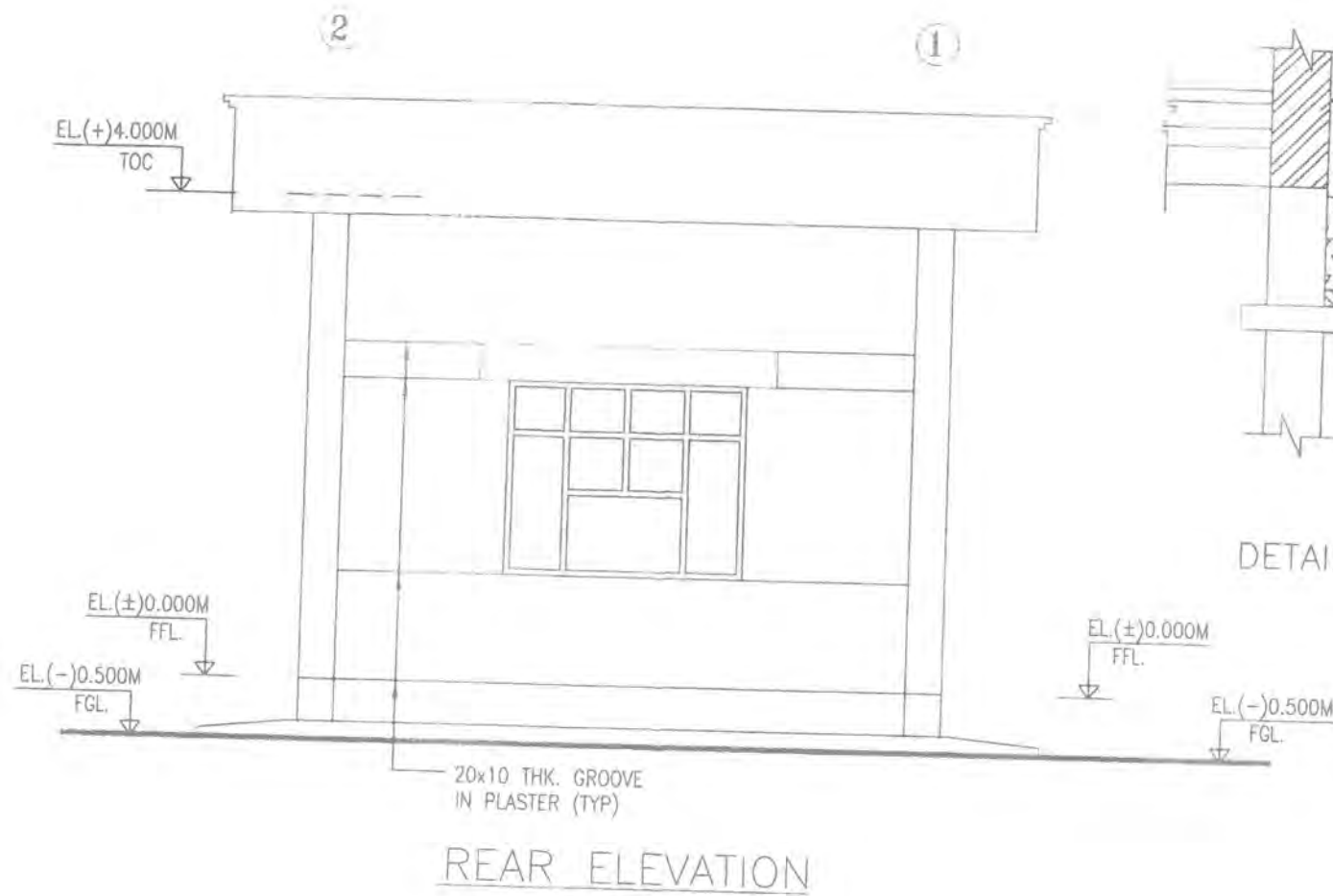
TITLE : FIRE CONTROL HOUSE ARCH, PLANS, ELEVATIONS, SECTIONS AND DETAILS ( Sh 1-3 )





INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : FIRE CONTROL HOUSE ARCH, PLANS,  
ELEVATIONS, SECTIONS AND DETAILS ( Sh 2-3 )



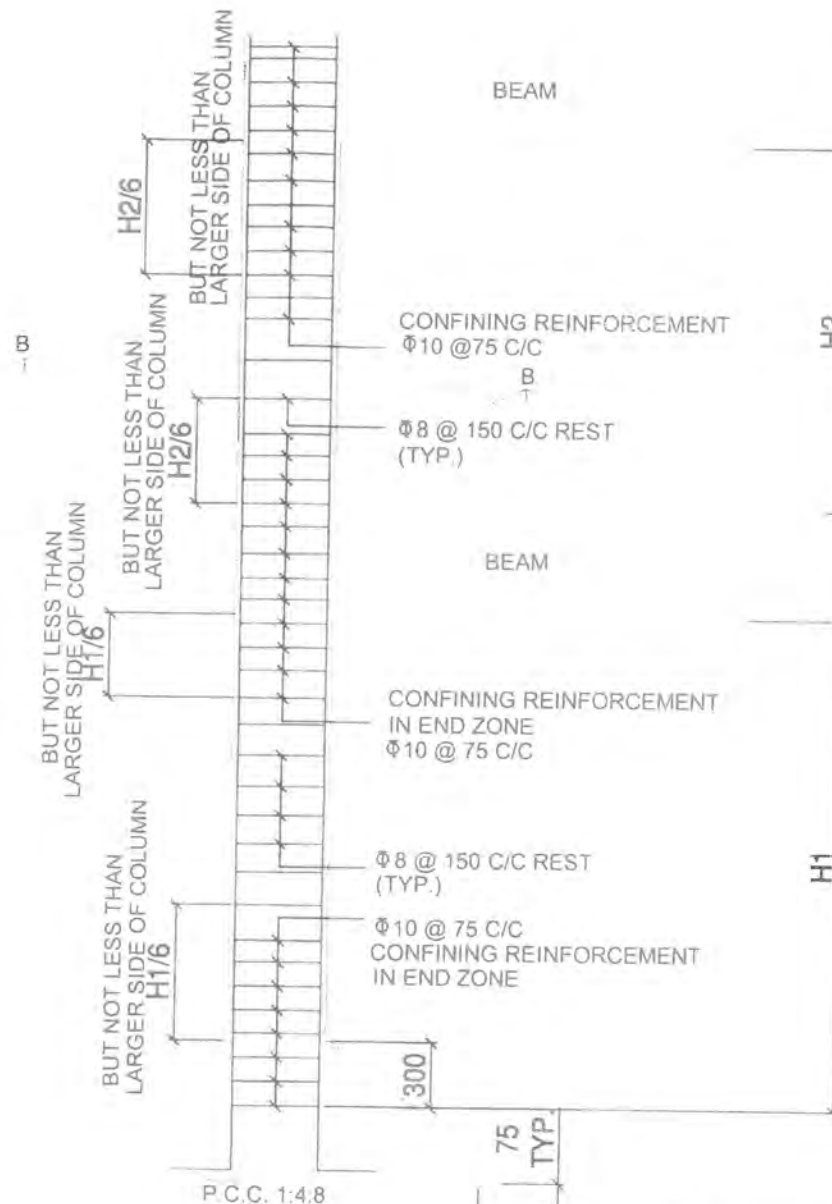
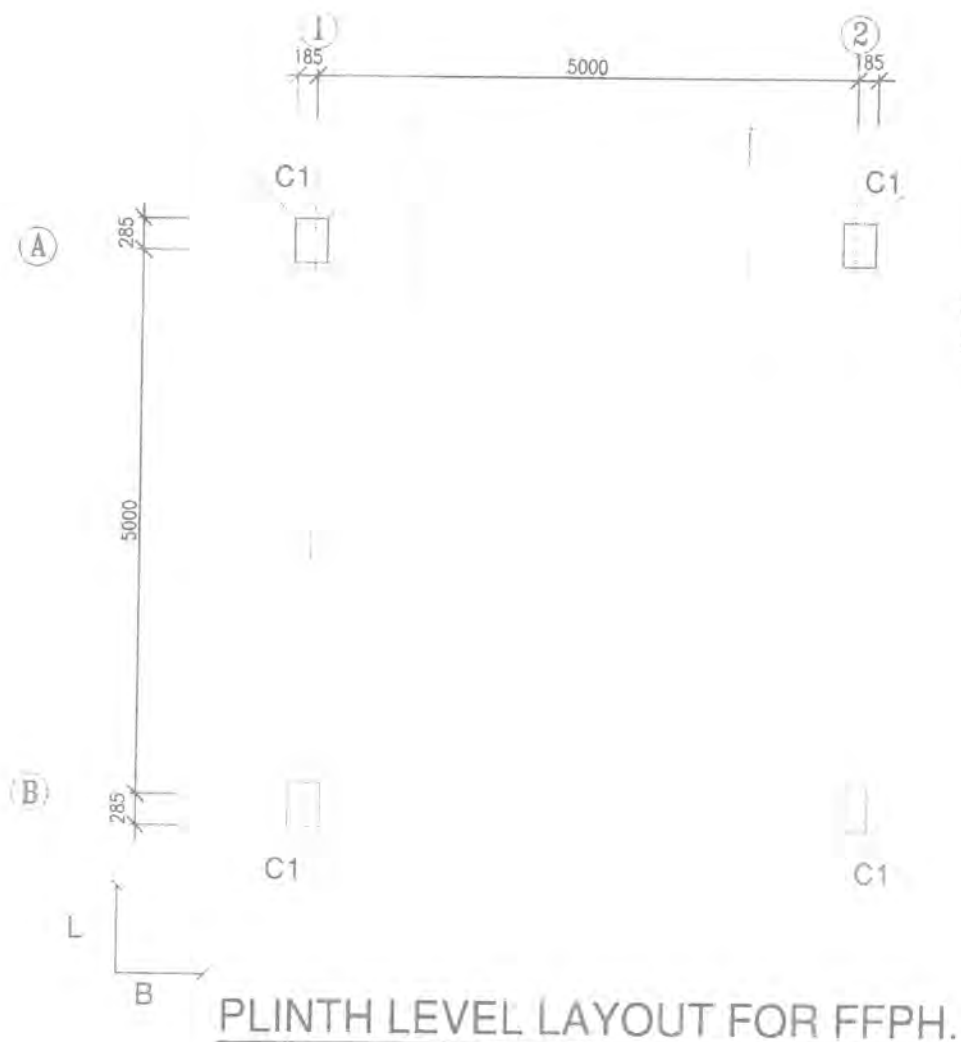
**Note:-**  
 1) All Dimensions are in MM and Level in Meters.  
 2) For other details please refer drw. no. C/Engg/STD/SIK/FFPH/2, sheet 4 of 4.

SCHEDULE OF DOORS & WINDOWS						
TYPE	OPENING SIZE	FRAME SIZE	CILL LEVEL	LINTEL LEVEL	NOS.	DESCRIPTION
RS1	2500 X 3000	2500 X 3000	-	3000	1	GALVALUME ROLLING SHUTTER
W1	2000 X 1600	1980 X 1580	900	2500	3	STANDARD STEEL WINDOW PARTLY FIXED & PARTLY OPENABLE

INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

**TITLE : FIRE CONTROL HOUSE ARCH, PLANS, ELEVATIONS, SECTIONS AND DETAILS ( Sh 3-3 )**





COLUMN SCHEDULE :-

COLUMN MARKS		C1,
COLUMN SIZE : L X B		400 X 300
VERTICAL REINF		8 - 20 $\Phi$
TIES		REFER DETAILS
COLUMN SIZE : L X B		400 X 300
VERTICAL REINF		8 - 20 $\Phi$
TIES		REFER DETAILS

COLUMN SECTION

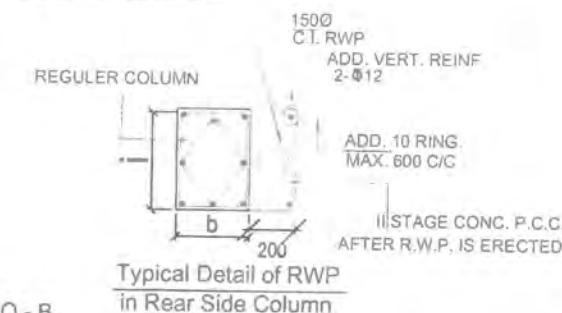
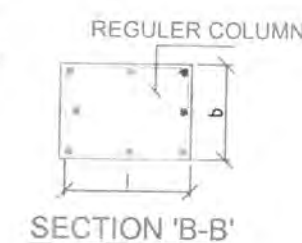
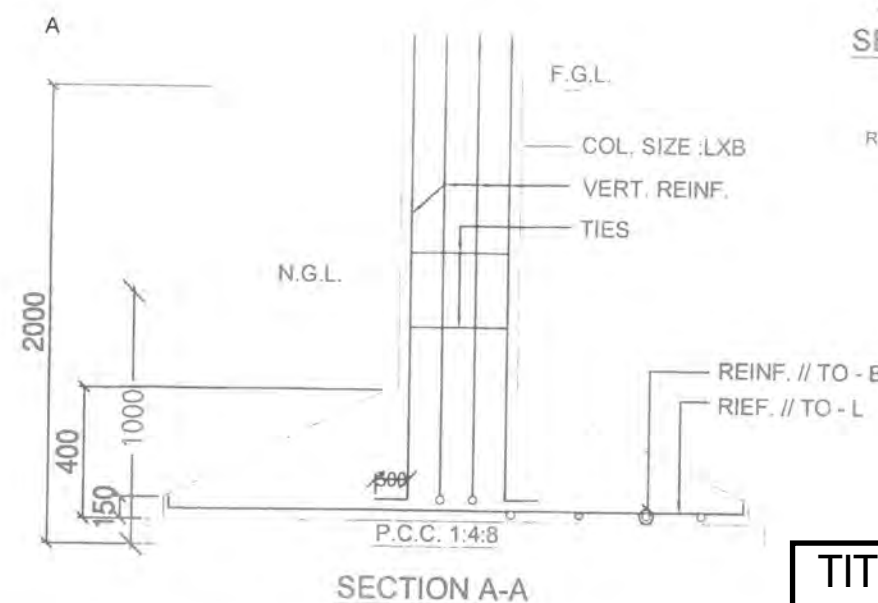
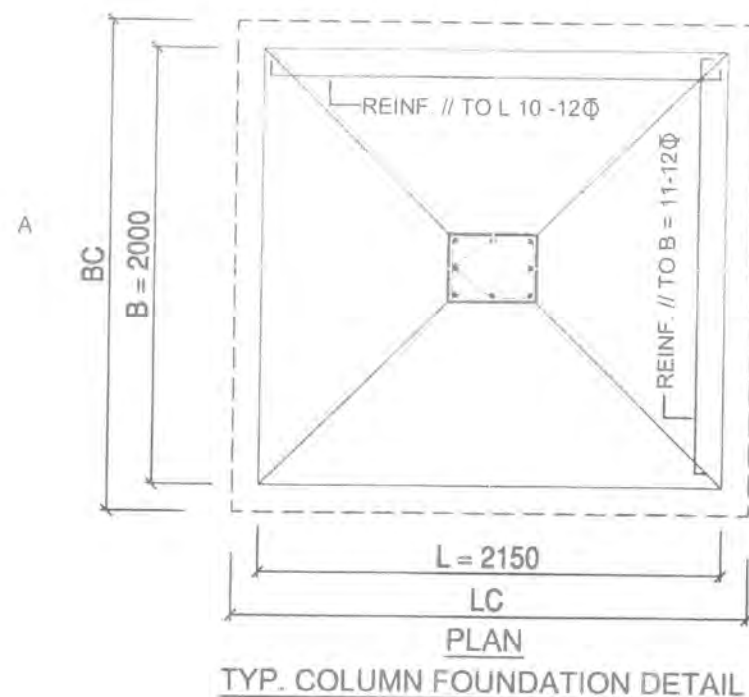


FOUNDATION SCHEDULE :-

COLUMN MARKS		C1,
SIZE : L X B		2150 X 2000
DEPTH : D/D'		400 / 150
REINF. // TO L AT BOT.		10 - $\Phi$ 12
REINF. // TO B AT BOT.		11 - $\Phi$ 12

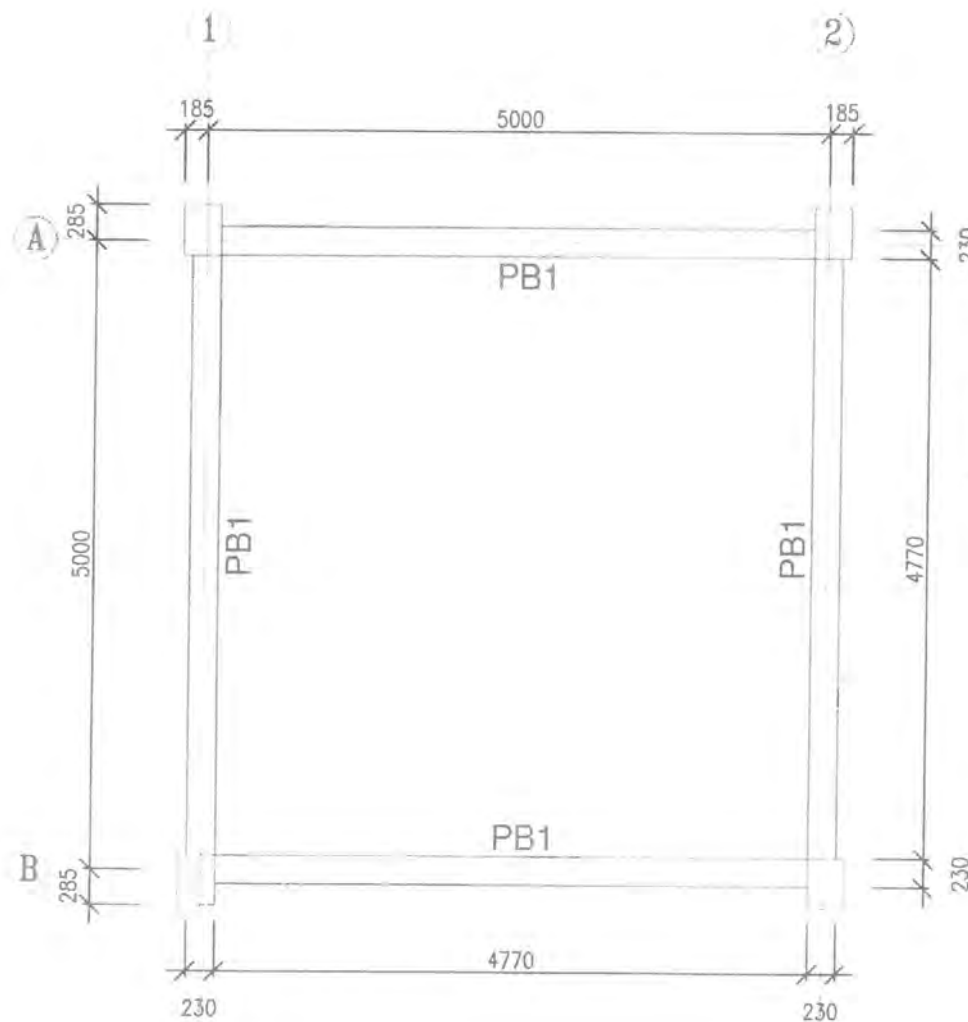
Note:-

- 1) All Dimensions are in MM and Level in Meters.
- 2) IF  $FGL < NGL$ , i.e Cutting area, Foundation depth shall be 2m from FGL.
- 3) IF  $FGL > NGL$ , i.e Filling area, Foundation should be rest minimum 1m below NGL.

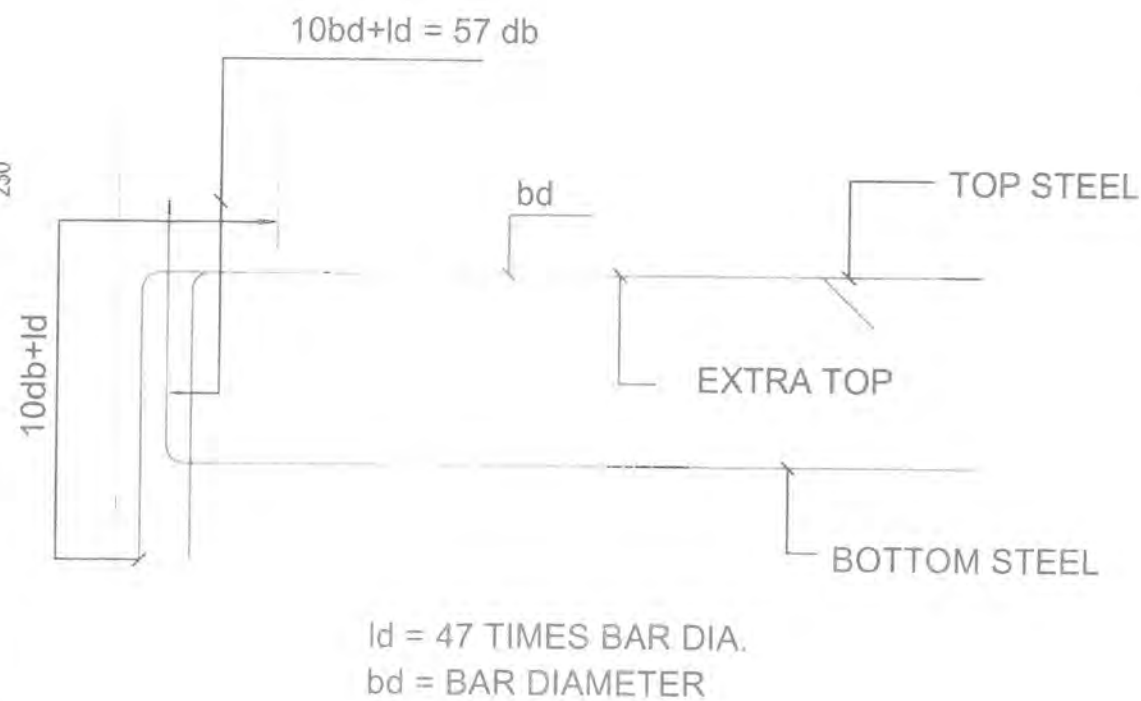


INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

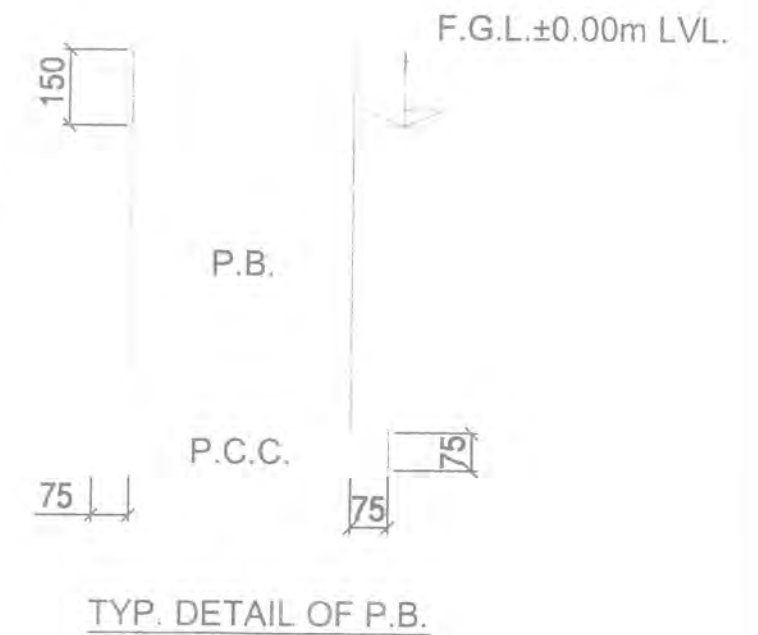
TITLE : FIRE CONTROL HOUSE FOUNDATION DETAILS ( Sh 1-4 )



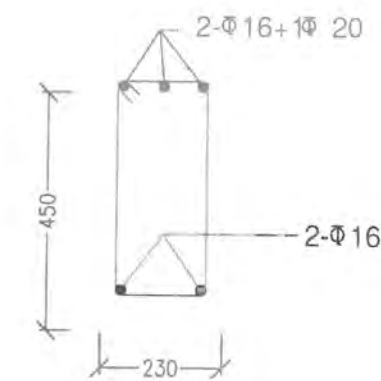
PLINTH LEVEL LAYOUT FOR FFPH.



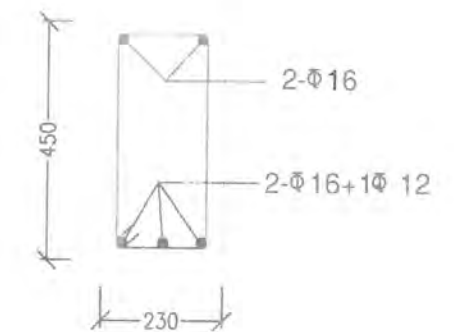
ANCHORAGE OF BEAM BARS IN AN EXTERNAL COLUMN (TYP.)



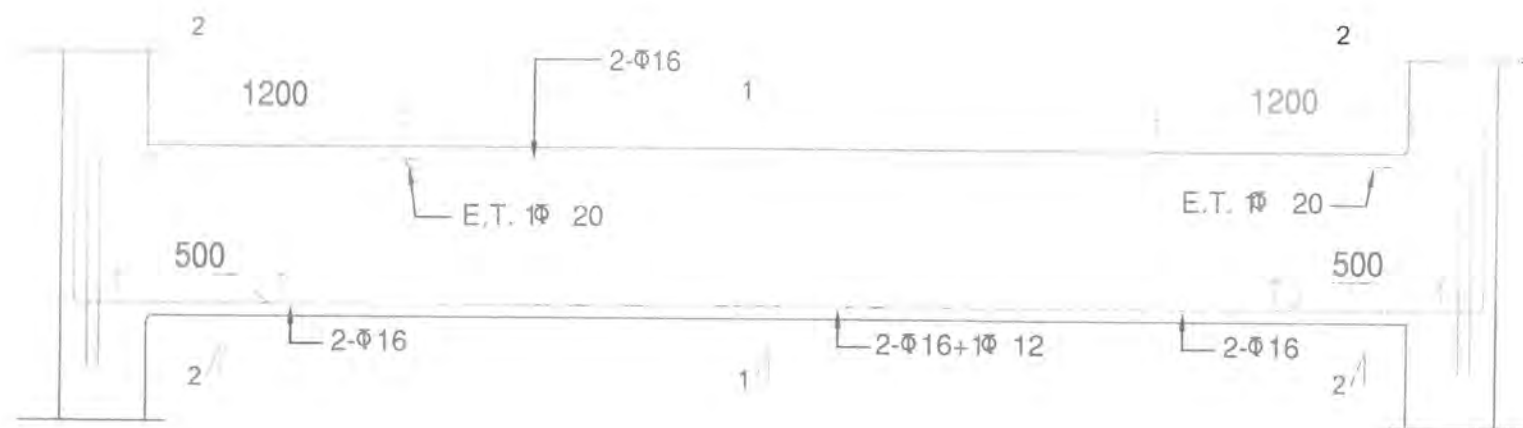
TYP. DETAIL OF P.B.



SECTION 2-2



SECTION 1-1



STIRRUPS	DIA.	Φ 8	Φ 8	Φ 8
C/C		90	180	90

PB 1 ( 230x450 DEEP)

Ø DIA OF STIRRUPS  
TYP. HOOK DETAILS  
OF STIRRUPS

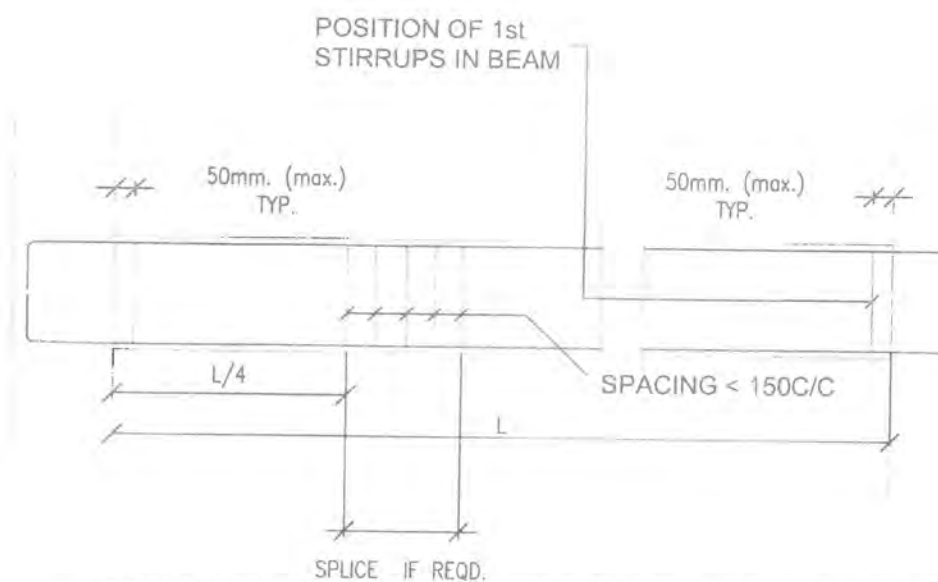
Note:-

- 1) All Dimensions are in MM and Level in Meters.
- 2) For Other Details Please Refer Drg. Sheet 4-4

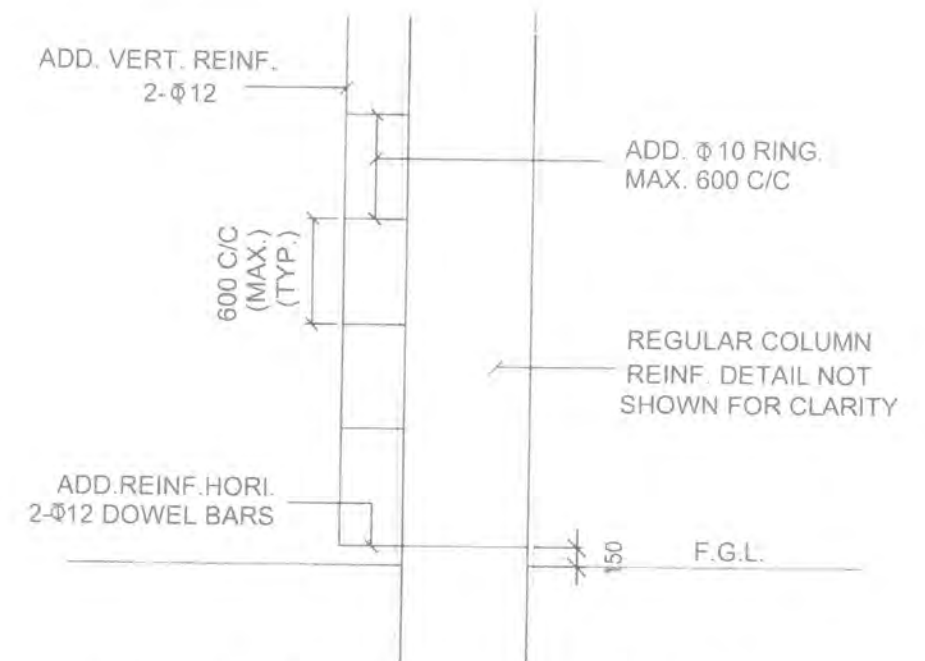
INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : FIRE CONTROL HOUSE FOUNDATION DETAILS ( Sh 2-4 )

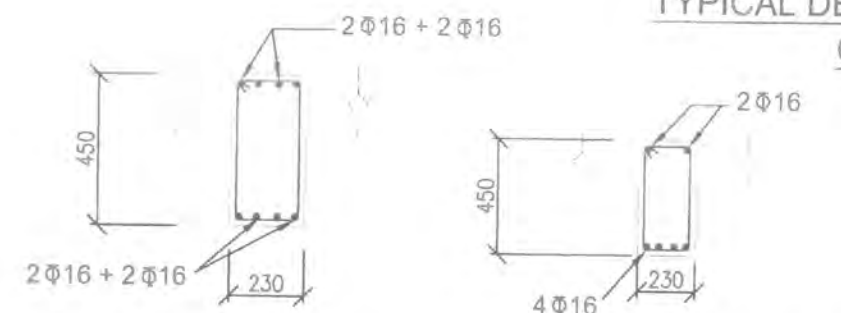




Ø DIA OF STIRRUPS  
TYP. HOOK DETAILS  
OF STIRRUPS



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



SECTION '1-1'    SECTION '2-2'

Note:-  
1) All Dimensions are in MM and Level in Meters.

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

B1 - 230X450 DEEP

TITLE : FIRE CONTROL HOUSE FOUNDATION DETAILS ( Sh 3-4 )

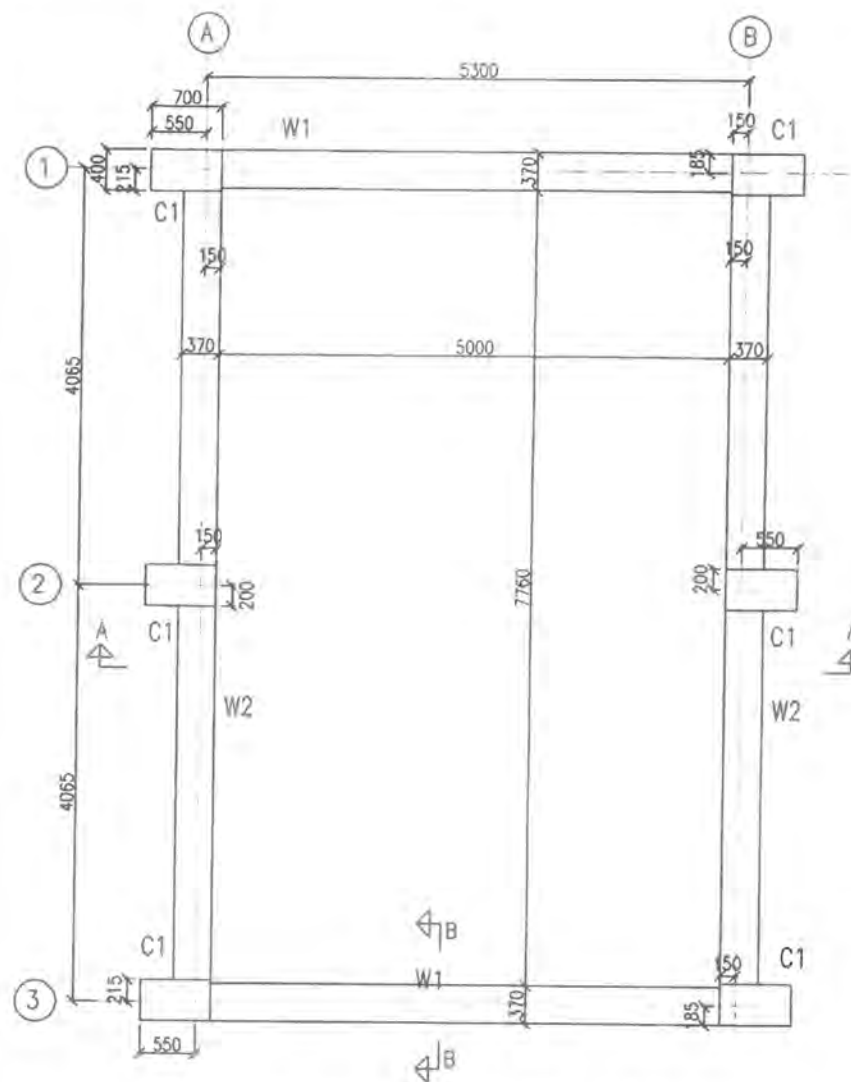
## GENERAL NOTES:-

- (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 BBS
- (4) ALL LEAN CONCRETE SHALL BE 1:4.8 (1 CEMENT ,4 COARSE SAND 8 GRADED STONE AGGREGATE 40 MM NOMINAL SIZE),A SLIDING LAYER OF BITUMEN PAPER OR CRAFT PAPER SHALL BE PROVIDED BETWEEN BASE SLAB
- (5) REINFORCEMENT USED SHALL BE CTD BARS OF GRADE Fe 500 CONFORMING TO IS 1786 OR THERMO MECHANICALLY TREATED BARS OF EQUAL GRADE
- (6) CLEAR COVER TO REINFORCEMENT SHALL BE AS UNDER
  - \* BOTTOM AND SIDES OF FOUNDATION - 50 MM
  - \* FOR COLUMN - 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 BE IN CONSULTATION WITH SITE INCHARGE TO SUIT CONCRETING PROGRAMME/FORM WORK.
- 10 WATER NOT TO BE FILLED IN TANK UNTIL TOP LIFT HAS BEEN CAST & CURED
- 11 INTEGRAL WATER PROOFING COMPOUND SHALL BE ADDED WHILE CONCRETING AS PER Manufacturer's RECOMMENDATIONS
- 12 ALL INSERTS, NOZZLES, PIPE SLEEVES ETC. SHALL BE PLACED IN POSITION BEFORE CONCRETING AS PER FIRE FIGHTING REQUIREMENTS.
- 13 DIMENSIONS OF EQUIPMENT FOUNDATIONS SHALL BE AS PER F.F.SYSTEM REQUIREMENTS.
- 14 PURLINS SHALL BE MANUFACTURED AFTER EXACT MEASUREMENT AT SITE.
- 15 COLOUR SCHEME MATCHING WITH CR BUILDING SHALL BE DECIDED AT SITE
- 16 ALL EXTERNAL WALLS ARE 230 THICK
- 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 BRICK WALL & 15mm THK, CEMENT PLASTER ON ROUGH SIDE OF BRICK WALL 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 CEMENT WASH
- 22 FOUNDATION HAS BEEN DESIGNED FOR A BEARING CAPACITY OF 9.0 MT/SQM
- 23 LEVELS OF PLINTH BEAM SHALL BE VERIFIED AS PER CABLE ENTRY DETAILS.

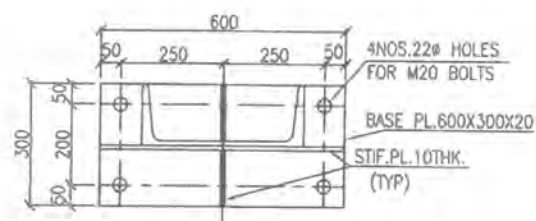
INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

**TITLE : FIRE CONTROL HOUSE FOUNDATION DETAILS ( Sh 4-4 )**

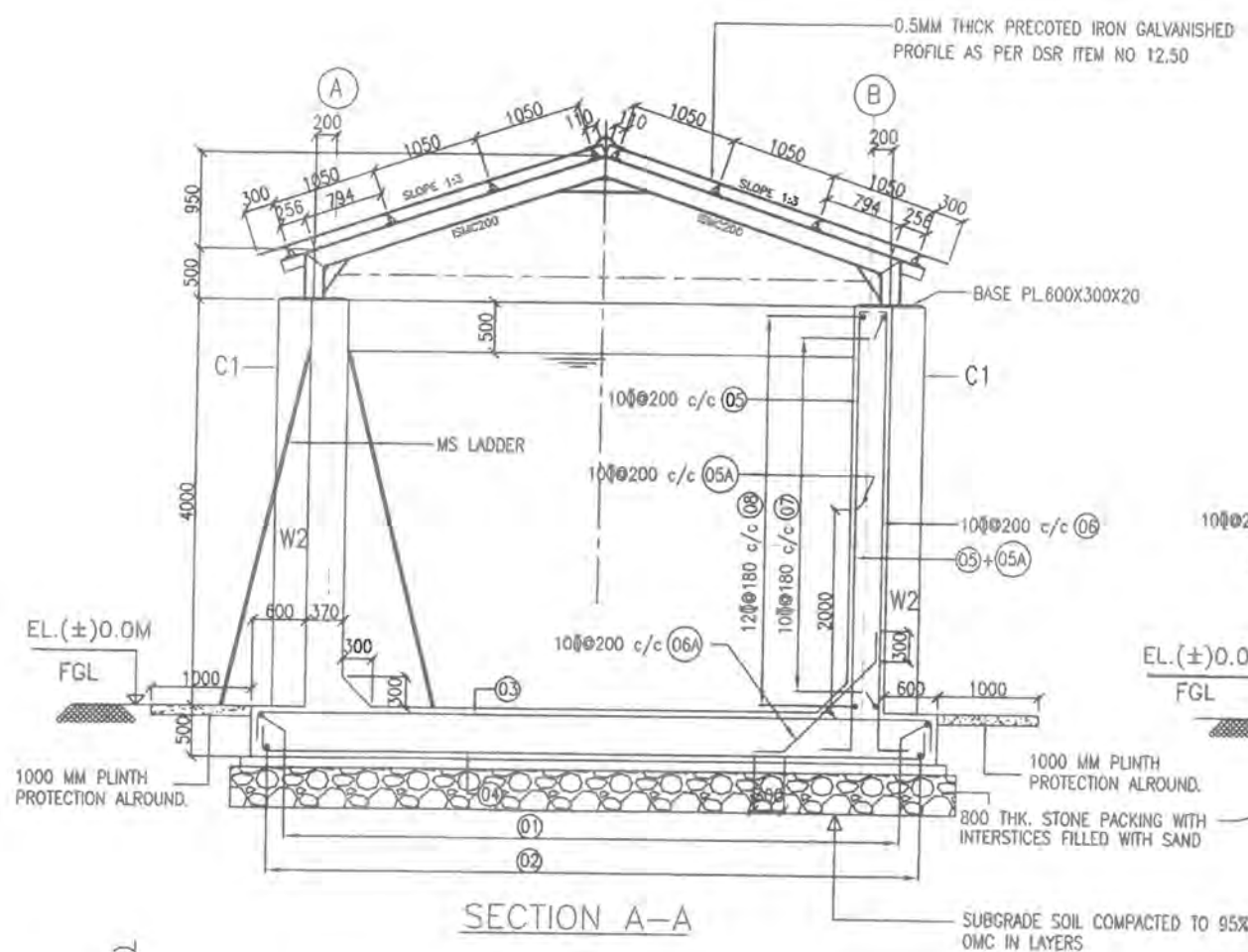




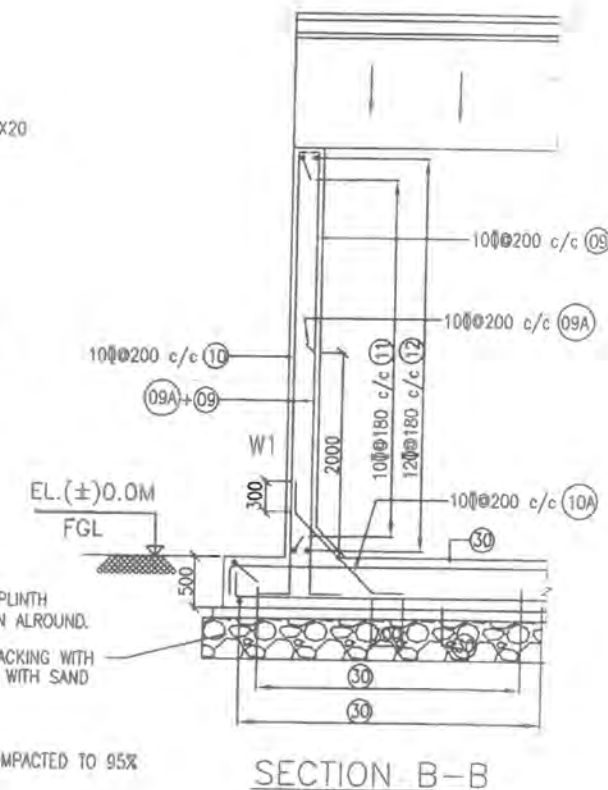
PLAN AT TOP OF TANK



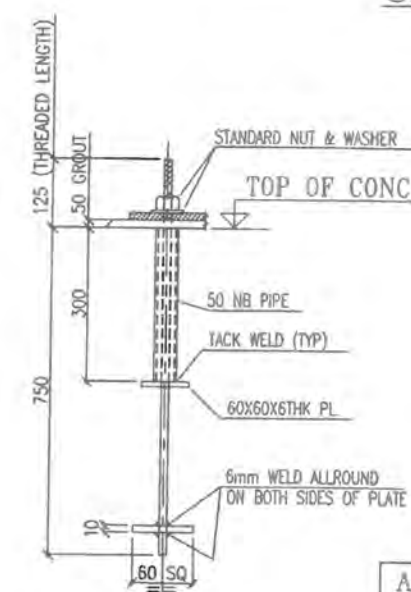
DETAIL OF BASE PLATE



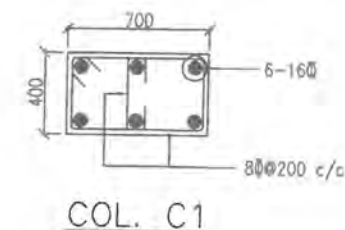
SECTION A-A



SECTION B-B



TYP. DET. OF M20 BOLTS

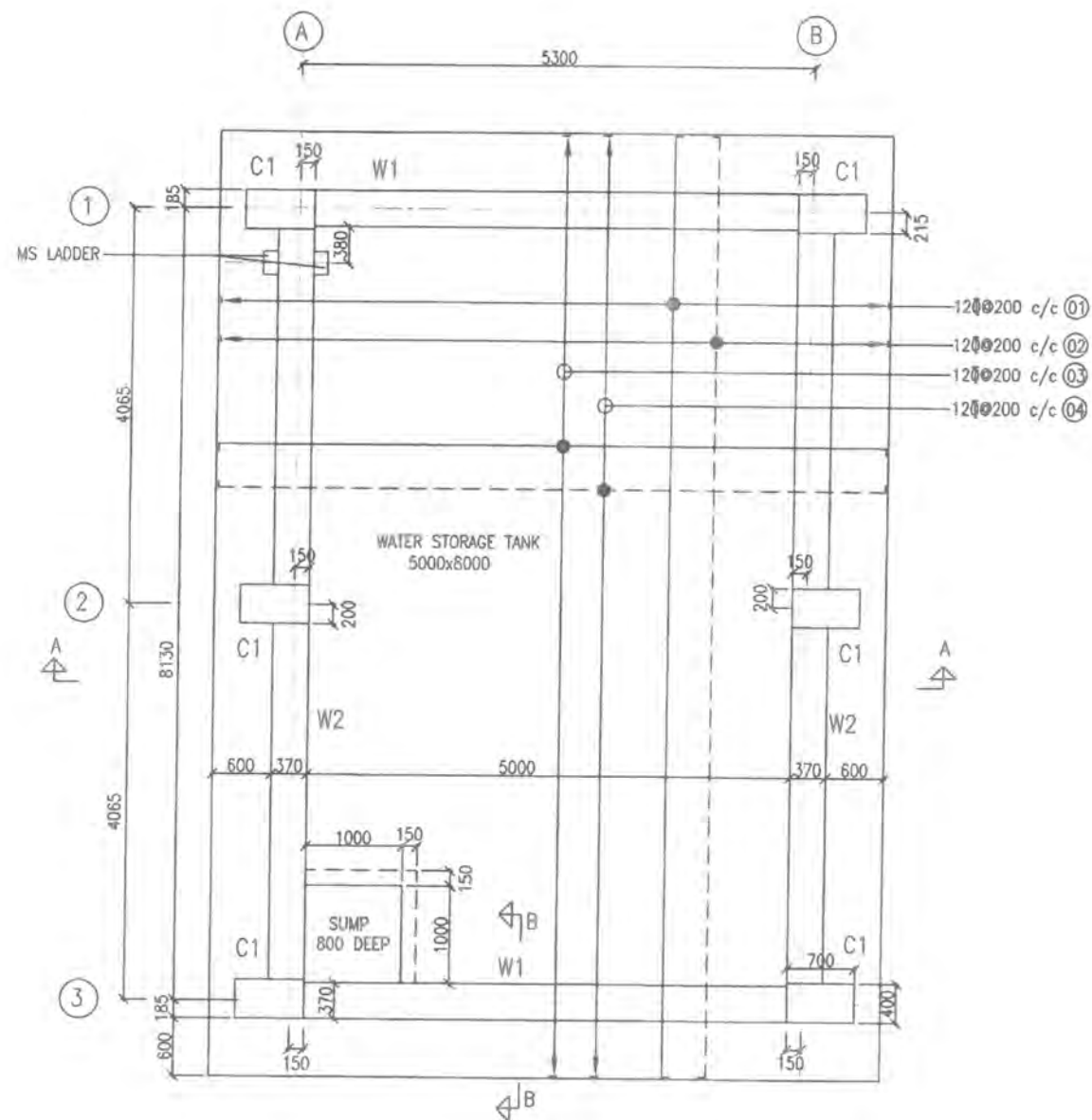


COL. C1

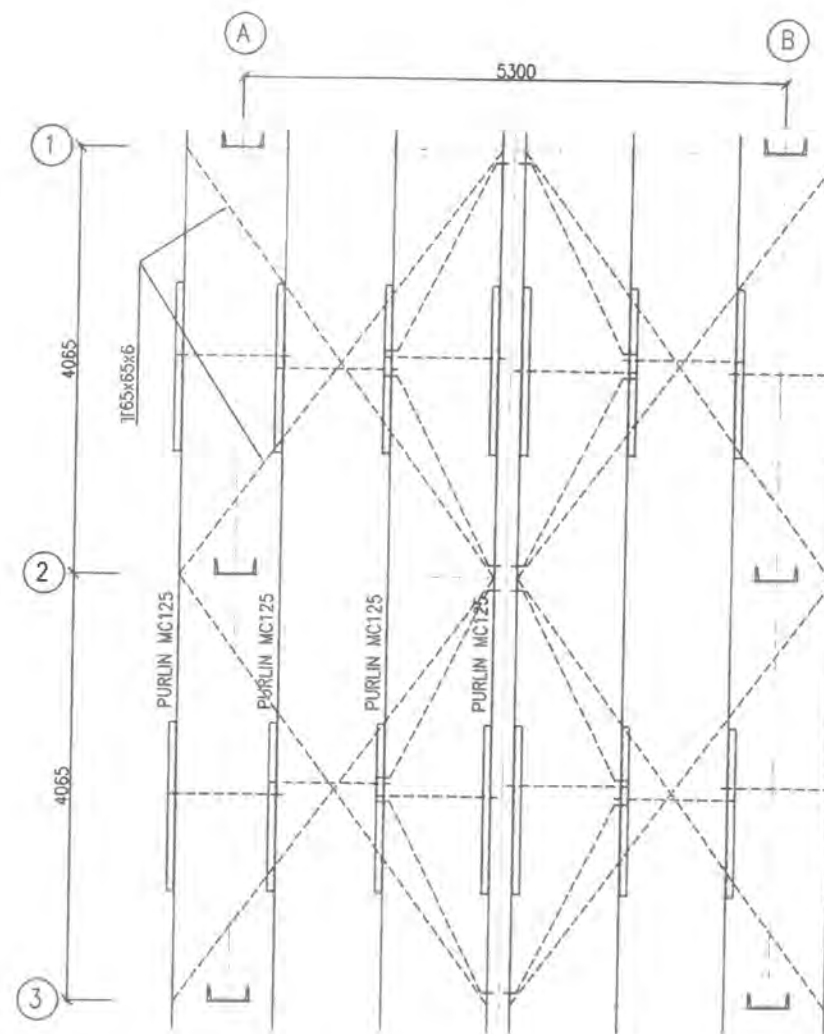
ALL THE INSERT NOZZLES, FIRE SLEEVES ETC. SHALL BE AS PER APPROVED DESIGN OF FIRE FIGHTING SYSTEM.

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : FIRE CONTROL HOUSE WATER TANK DETAILS ( Sh 1-2 )



G.A. & REINF. DETAIL AT BOTTOM OF TANK



PLAN AT RAFTER LEVEL

#### NOTES:-

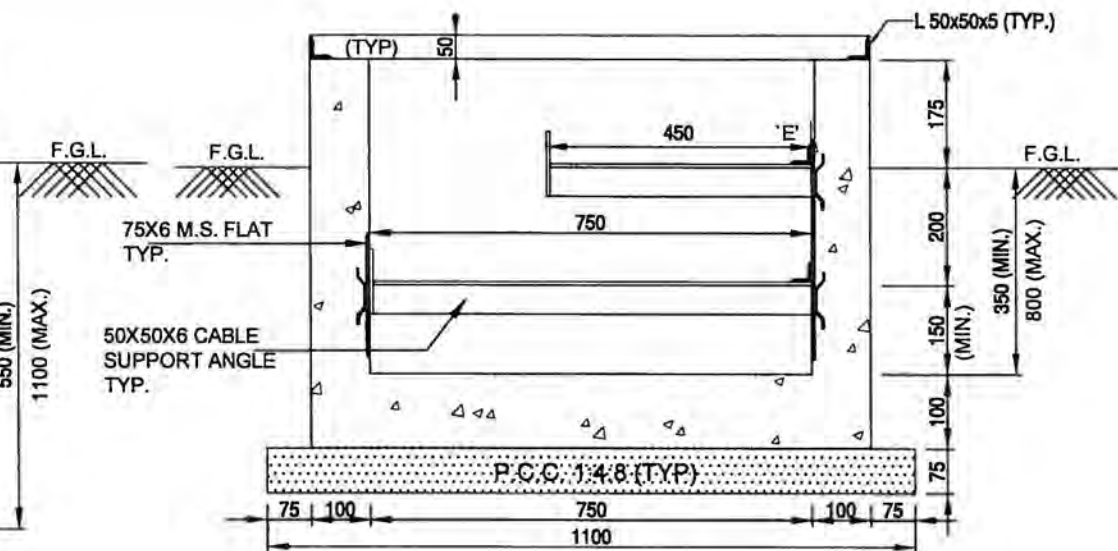
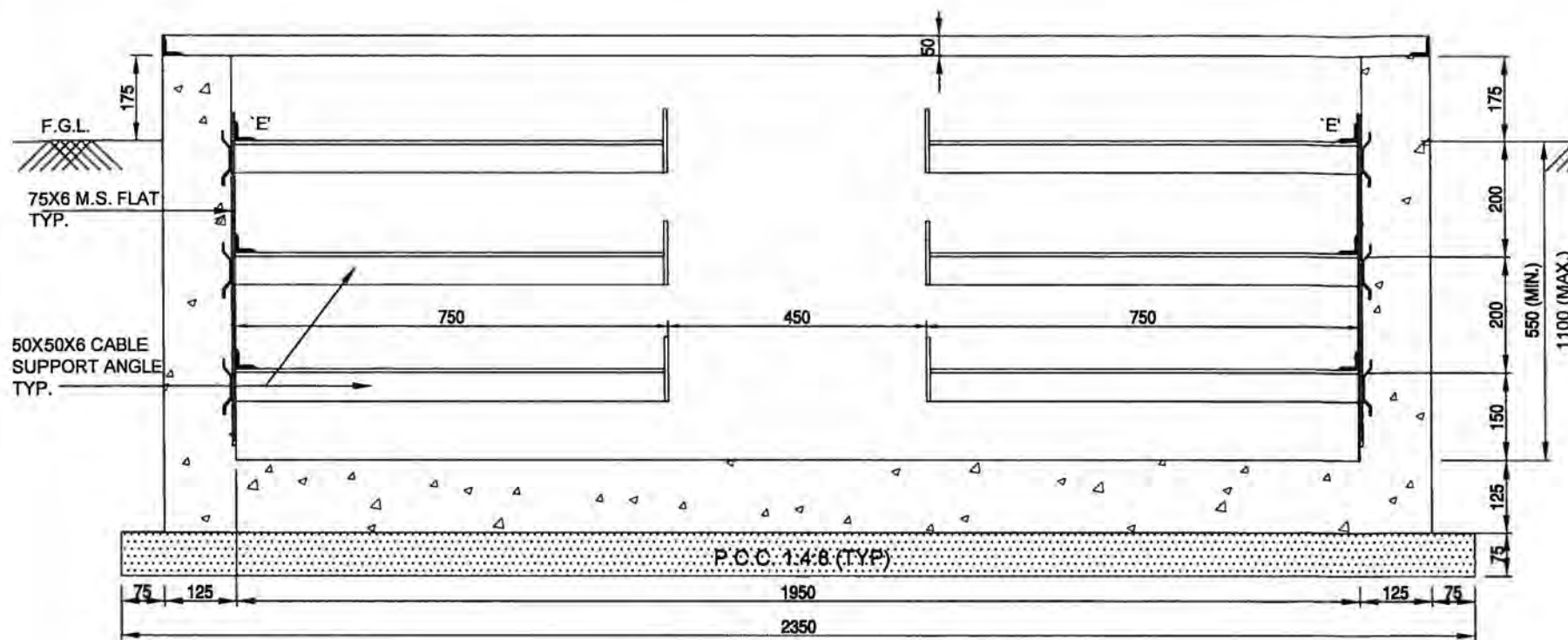
1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METRES.
2. FIGURED DIMENSIONS ONLY SHALL BE FOLLOWED.
3. THIS DWG. IS TO BE READ IN CONJUNCTION WITH DWG. NO. C/ENGG/132 /STD/FFPH/003 SHEET 01
4. ALL R.C.C. SHALL BE USE MIX M-25 U.N.O. 5. ALL REINFORCEMENT SHALL BE IN FORM OF H.Y.S.D. STEEL BARS/TMT OF GRADE Fe 415 CONFORMING TO IS:1786-1985.
6. CLEAR COVER TO REINF. INCLUDING LINKS FOR R.C.C MEMBERS SHALL BE AS UNDER:-  
FOOTING =50mm COLUMN =50mm  
WALL =40mm
7. STANDARD 'L' HOOKS SHALL BE PROVIDED AT THE ENDS OF ALL BARS.
8. LAP LENGTH/DEVELOPMENT LENGTH FOR MAIN REINFORCEMENT BARS AS PER IS: 456-2000 SHALL BE 50xDIA OF BAR
9. LAPS SHALL BE STAGGERED AND AVOIDED AT THE SECTIONS OF MAX. BENDING MOMENT
10. ANY LOOSE POCKET PATCH BELOW FDN. SHALL BE CLEARED AND FILLED WITH P.C.C. 1:4:8
11. BOTTOM BAR INDICATES:
12. TOP BAR INDICATES:
13. ANTICORROSSIVE PANTING SHALL BE GIVEN TO ALL STEEL MEMBERS.

ALL THE INSERT NOZZLES, FIRE SLEEVES ETC. SHALL BE AS PER APPROVED DESIGN OF FIRE FIGHTING SYSTEM.

INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

TITLE : FIRE CONTROL HOUSE WATER TANK DETAILS ( Sh 2-2 )

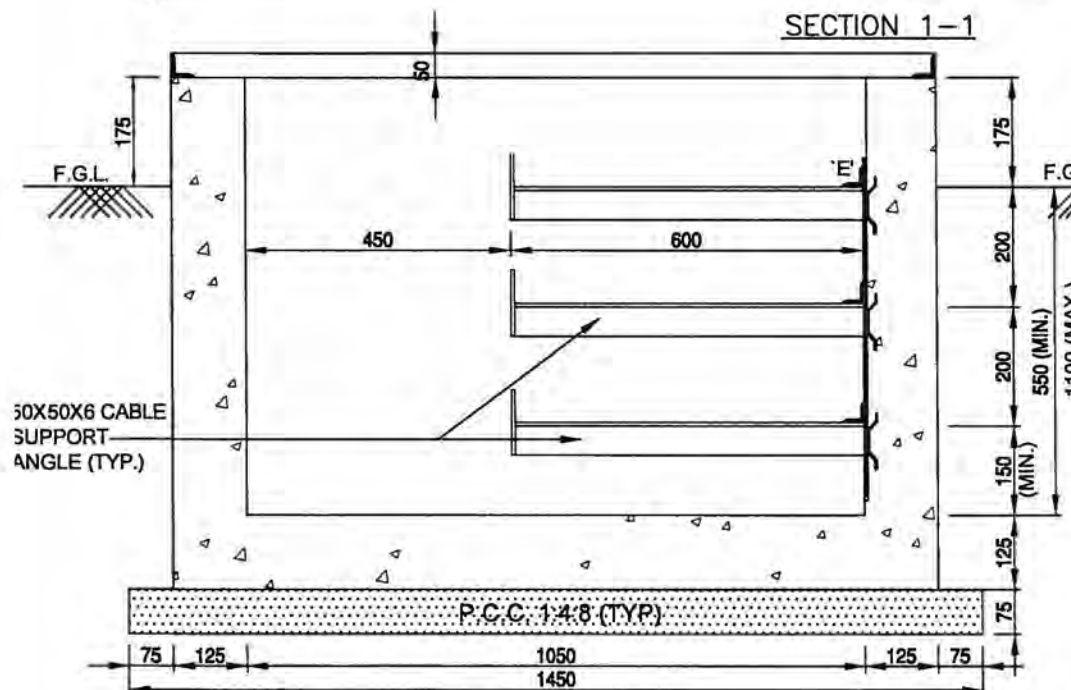




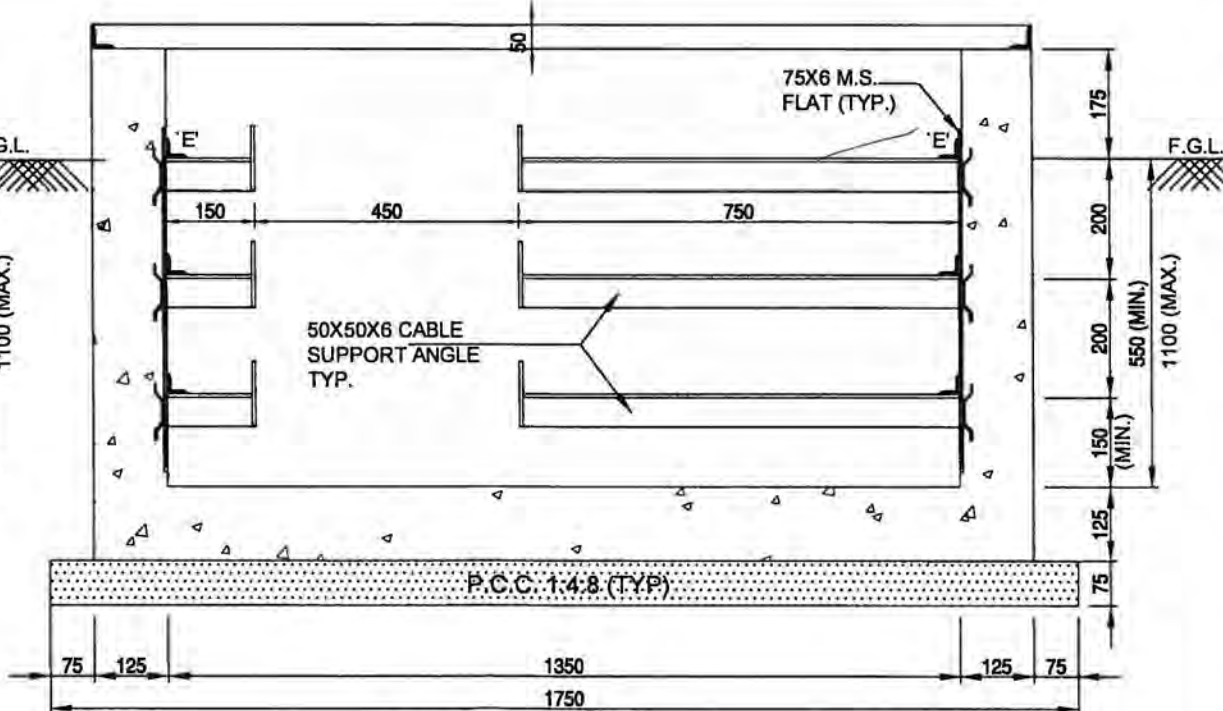
### SECTION 3-3

#### GENERAL NOTES:

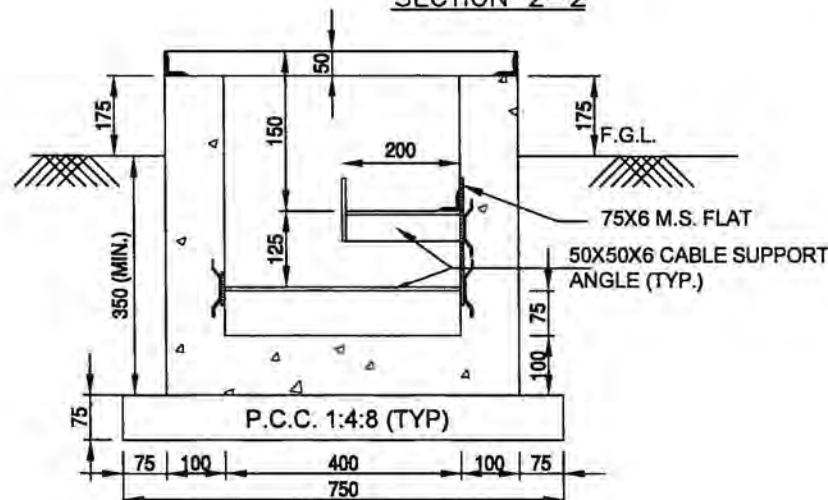
1. ALL DIMENSIONS ARE IN MM. UNLESS NOTED OTHERWISE.
2. DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. LAP LENGTH SHALL BE 47 TIMES DIA. OF BAR.
4. PROVIDE CLEAR COVER TO REINFORCEMENT AS UNDER.
  - a) 25MM FOR INNER SIDE OF CABLE TRENCH.
  - b) 50MM FOR OUTER SIDE AND BOTTOM OF CABLE TRENCH
5. ALL R.C.C. SHALL BE AS PER BPS ITEMS UNLESS NOTED OTHERWISE.
6. LIFTING HOOK SHALL BE PROVIDED IN EVERY TENTH COVER SLAB.
7. NECESSARY OPENINGS SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO TAKE OUT CABLES.
8. FOR ACTUAL DEPTH OF TRENCHES REFER APPROVED CABLE TRENCH LAYOUT
9. F.G.L. DENOTES FINISHED GROUND LEVEL.
10. ALL CABLE TRENCHES SHALL HAVE A SLOPE OF 1:1000 IN THE DIRECTION OF MAIN RUN AWAY FROM THE BUILDING.
11. EARTHING CONDUCTOR 'E' 50x6 M.S. FLAT SHALL BE WELDED TO THE CABLE SUPPORTING STRUCTURE BEFORE INSTALLATION OF CABLE. EARTHING CONDUCTOR 'E' SHALL BE PROVIDED ON THE TOP TIER OF EACH CABLE TRENCH SECTION.
12. ALL STEEL STRUCTURES PLATES SHALL BE PAINTED WITH ANTI-CORROSIVE PAINT TO AN EVEN SHADE TWO OR MORE COATS OVER A COAT OF SUITABLE STEEL PRIMER BEFORE INSTALLATION OF CABLES AND EARTHING CONDUCTOR SHALL BE PAINTED RED.
13. CONSTRUCTION JOINT SHALL BE PROVIDED AT 30M OR AS PER SITE REQUIREMENT BUT NOT EXCEEDING 30M.
14. ALL SUPPORT ANGLES SHALL BE 50x50x6
15. ANCHORING FLAT ( 75x6 ) SHALL BE PROVIDED AT EACH SUPPORT ANGLE POINT.
16. INCASE EXPANSIVE SOIL IS ENCOUNTERED AT FOUNDING LEVEL, IT SHALL BE REMOVED TO A MINIMUM DEPTH OF 300 MM AND SHALL BE REPLACED BY WELL COMPACTED LOCALLY AVAILABLE C.N.S. MATERIAL OR LOCAL SAND.
17. ALL REINFORCEMENT STEEL BARS SHALL BE TMT OR HYSD BARS CONFORM TO IS:1786-1985 OF GRADE Fe500



### SECTION 2-2



### SECTION 2A-2A

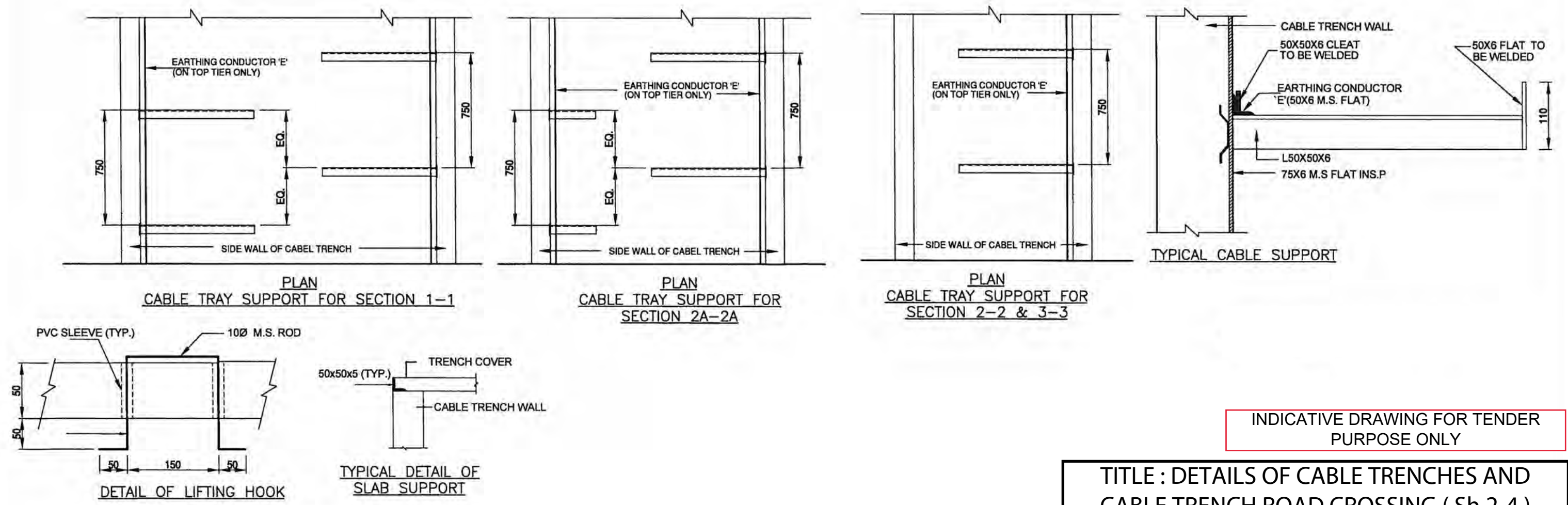
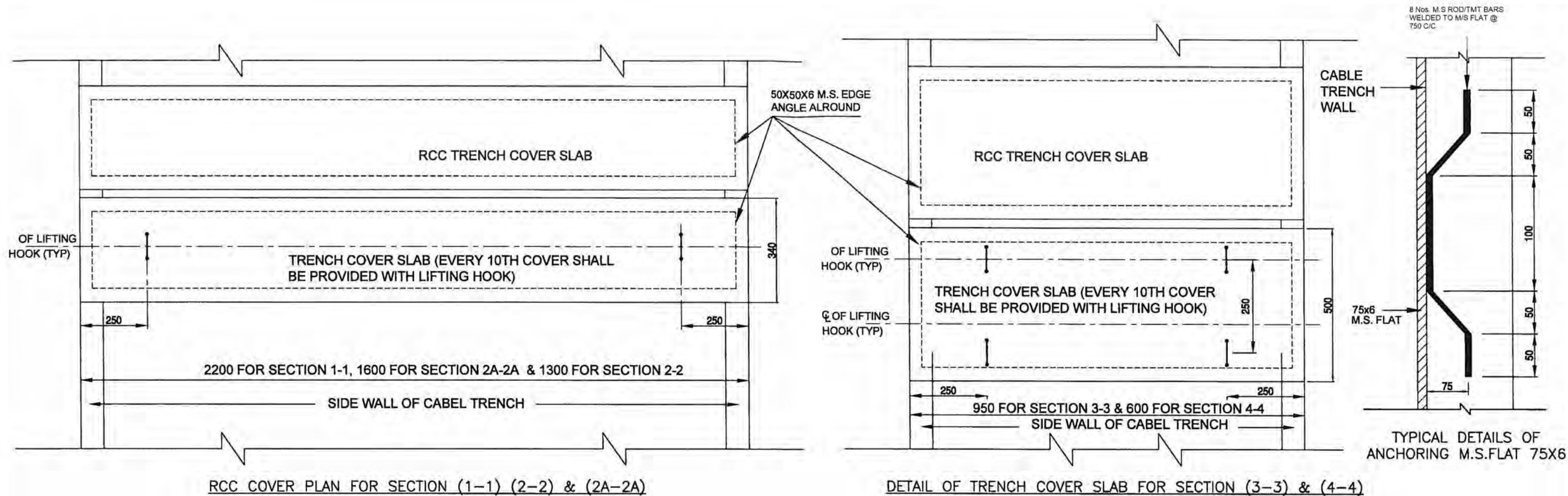


### SECTION 4-4

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : DETAILS OF CABLE TRENCHES AND CABLE TRENCH  
ROAD CROSSING ( Sh 1-4 )

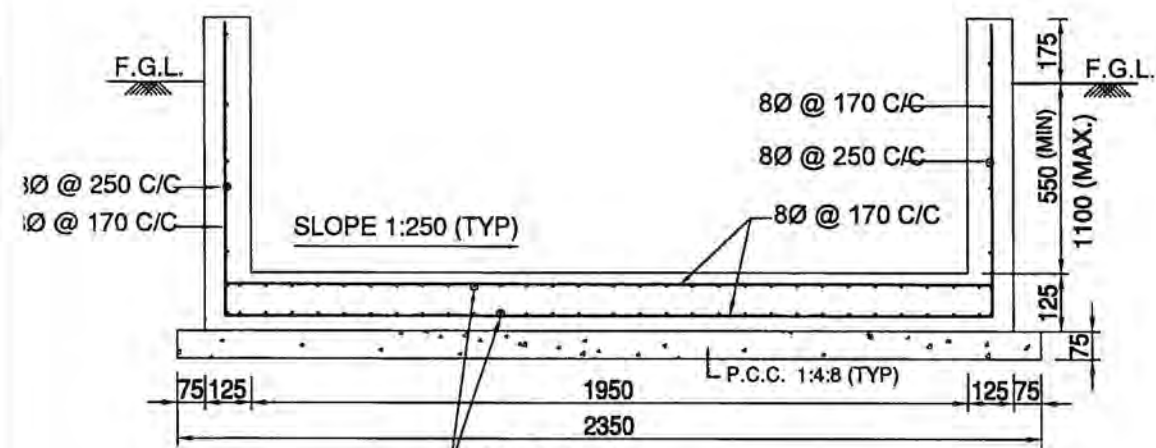




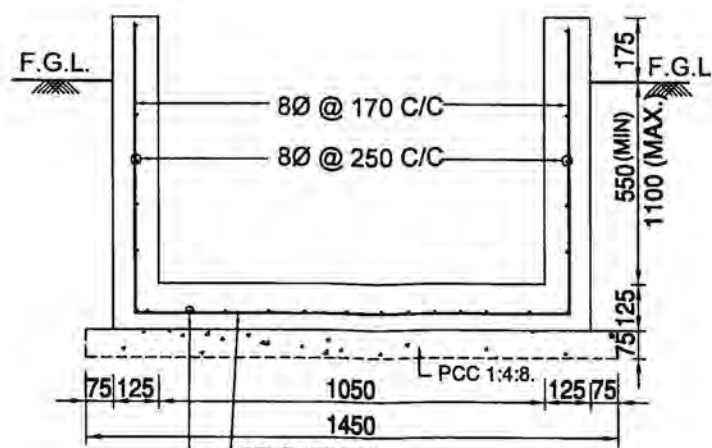
INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

TITLE : DETAILS OF CABLE TRENCHES AND CABLE TRENCH ROAD CROSSING ( Sh 2-4 )

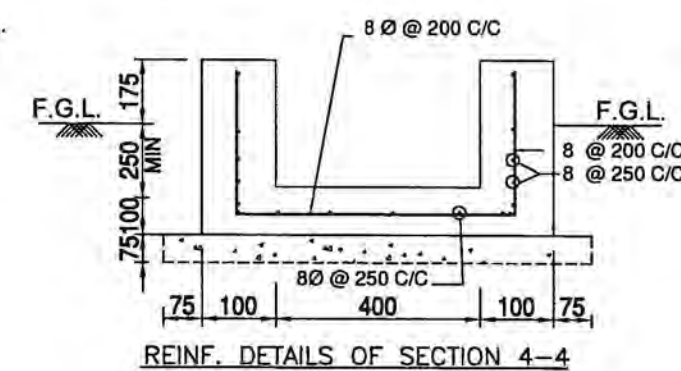




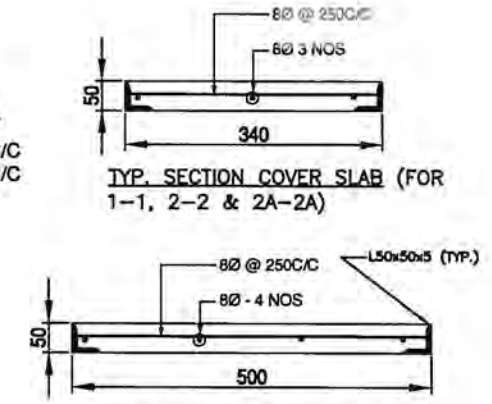
REINF. DETAILS OF SECTION 1-1



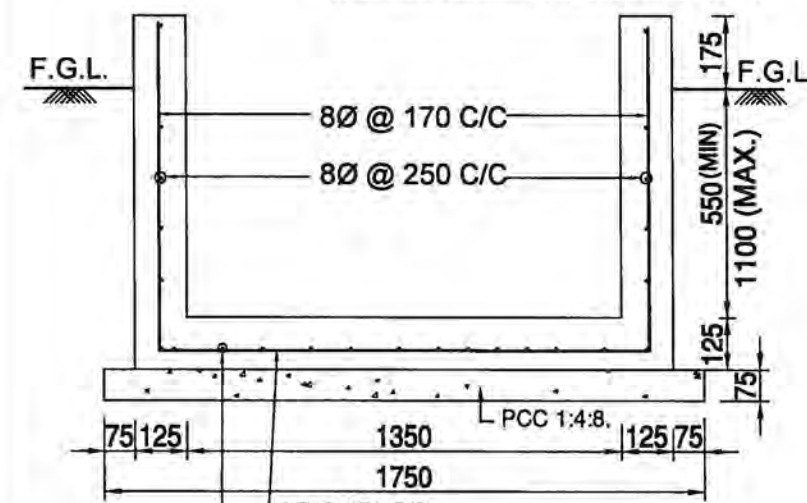
REINF. DETAILS OF SECTION 2-2



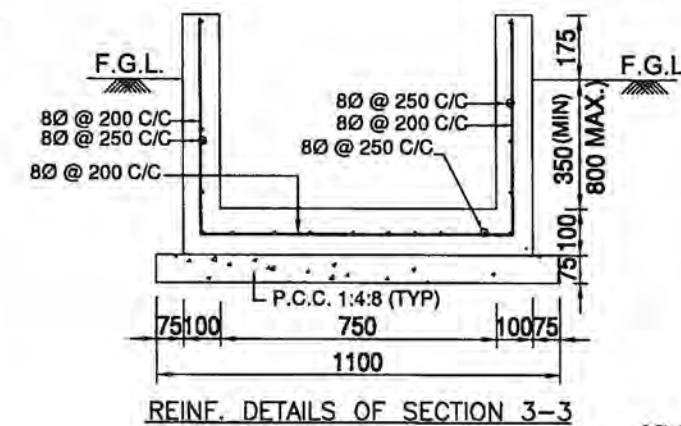
REINF. DETAILS OF SECTION 4-4



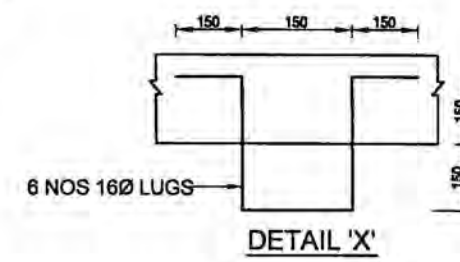
TYP. SECTION COVER SLAB (FOR 3-3, 4-4)



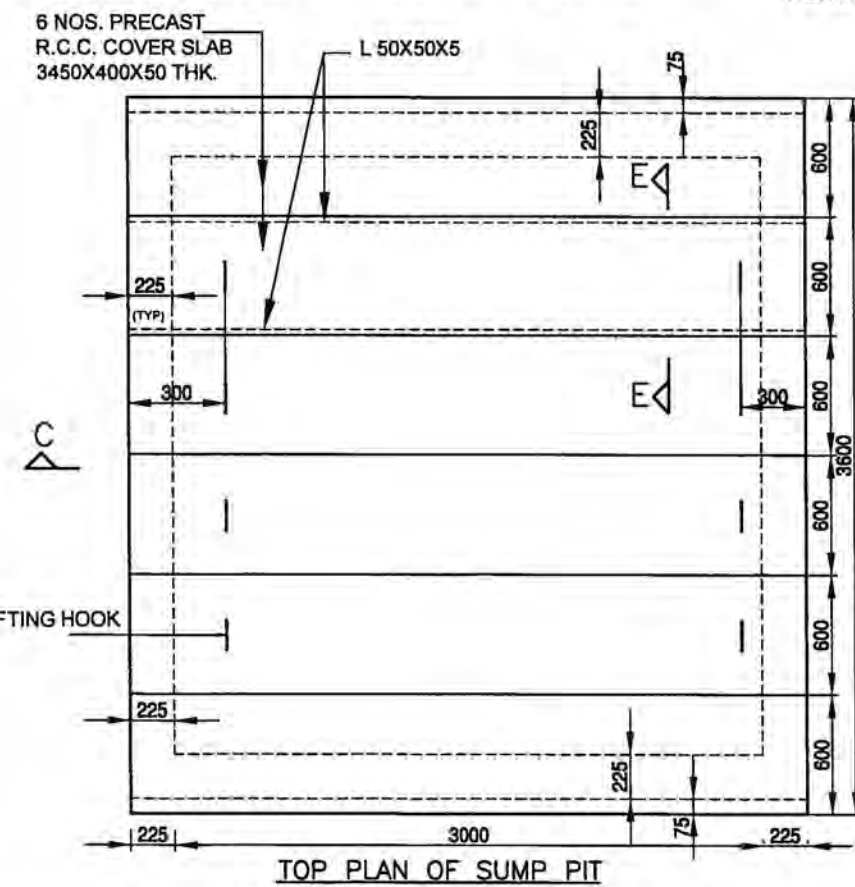
REINF. DETAILS OF SECTION 2A-2A



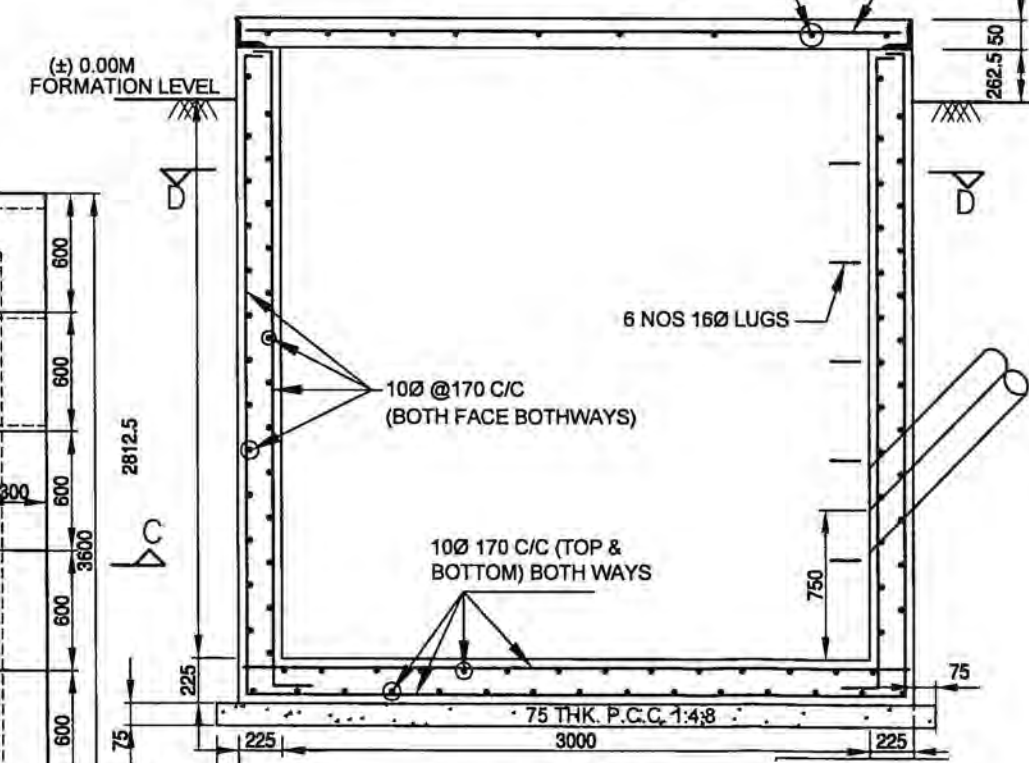
REINF. DETAILS OF SECTION 3-3



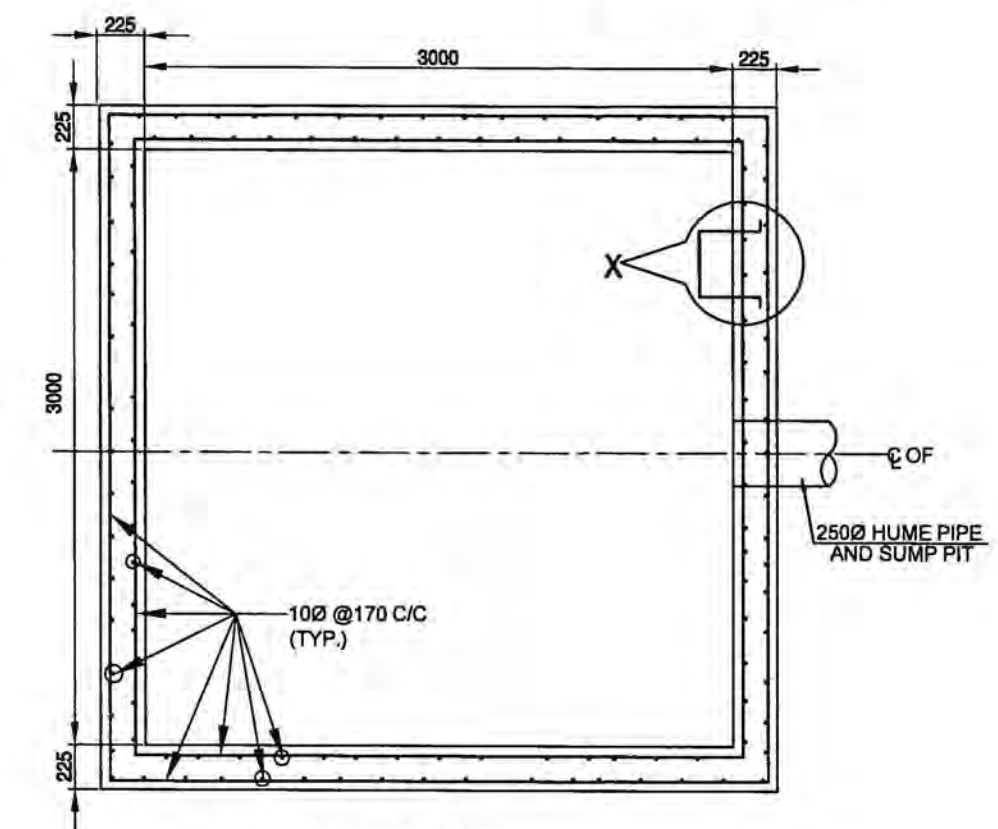
DETAIL 'X'



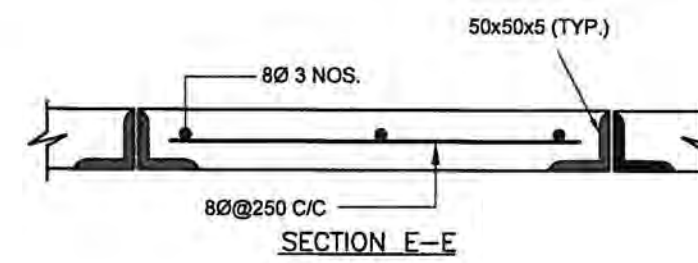
TOP PLAN OF SUMP PIT



SECTION C-C



SECTION D-D

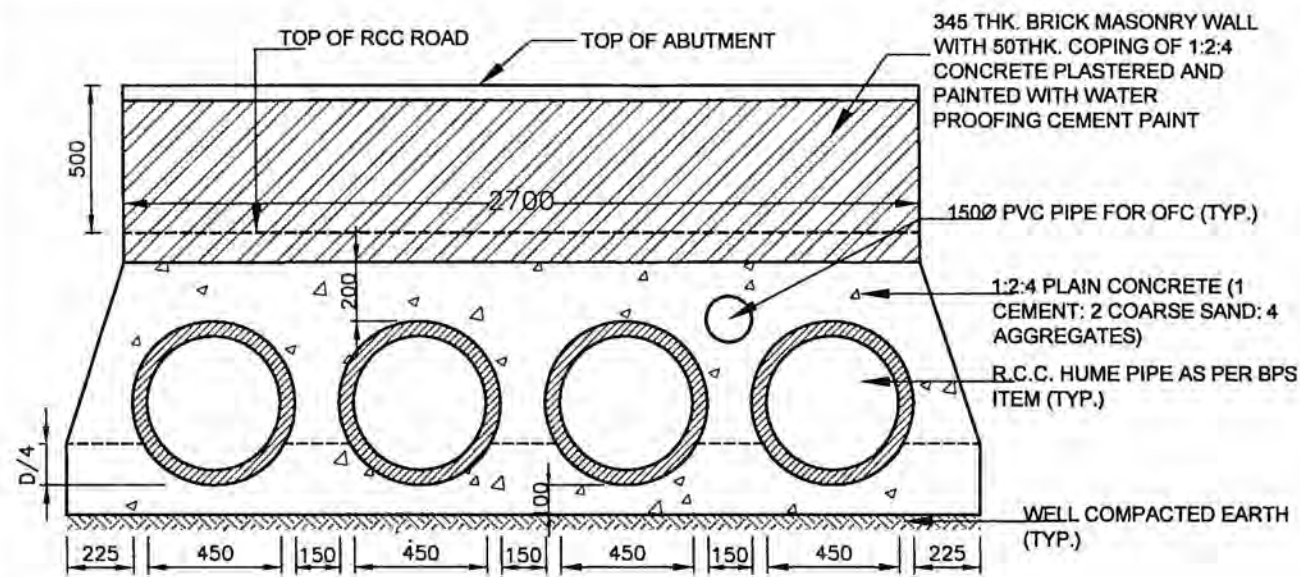


SECTION E-E

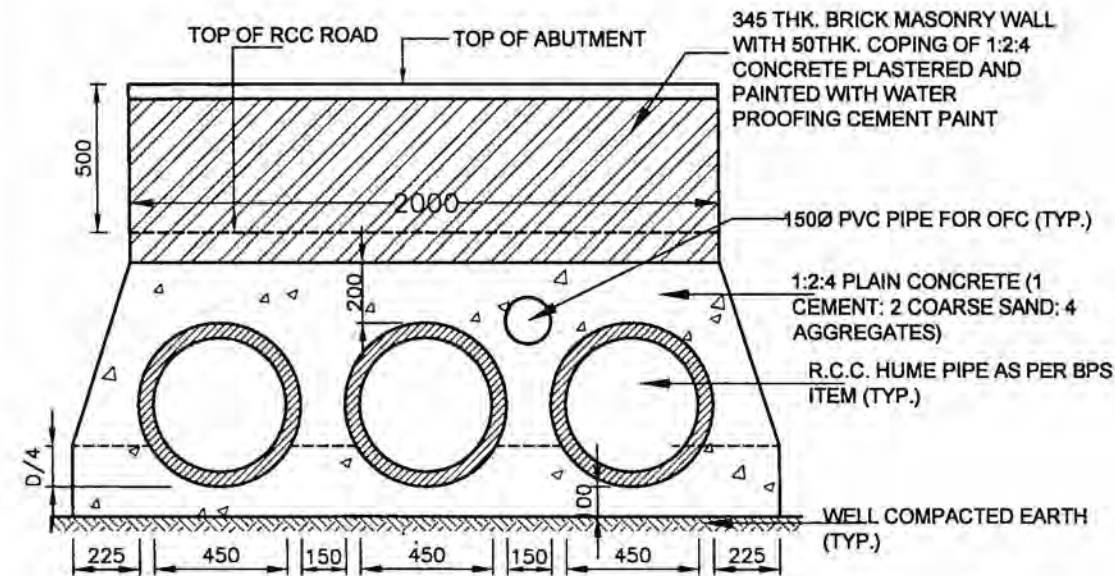
INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

TITLE : DETAILS OF CABLE TRENCHES AND CABLE TRENCH ROAD CROSSING ( Sh 3-4 )

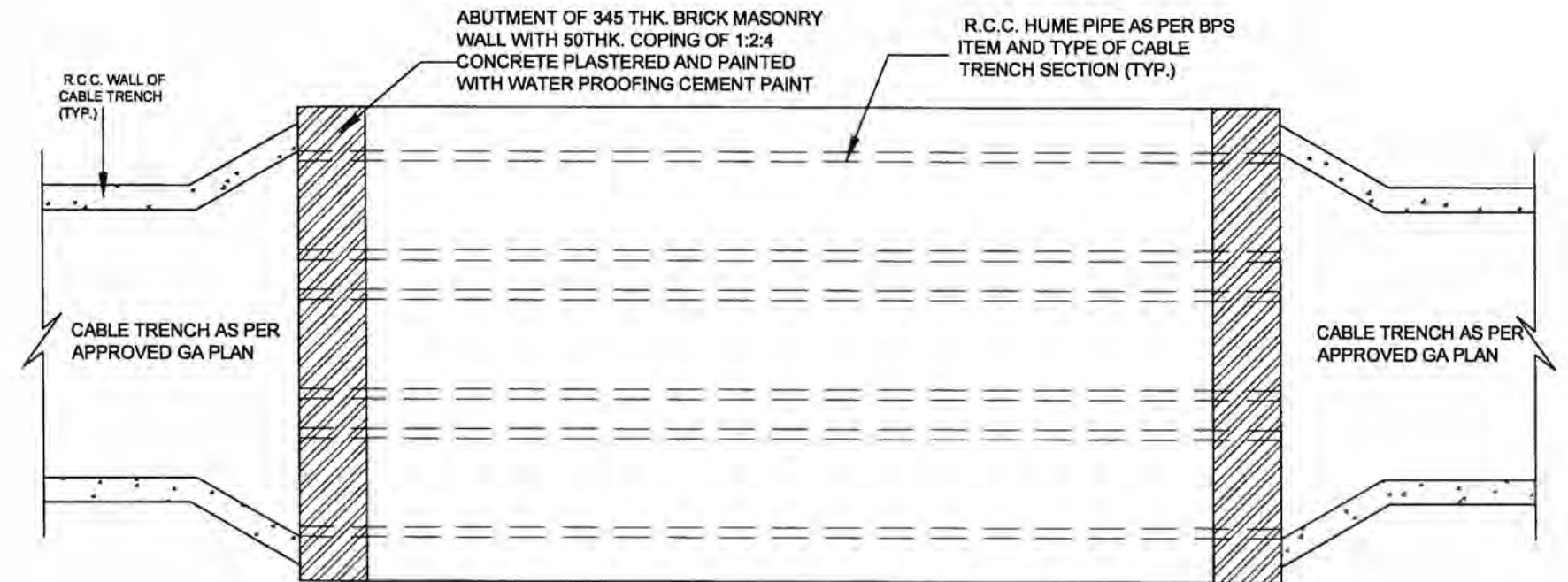




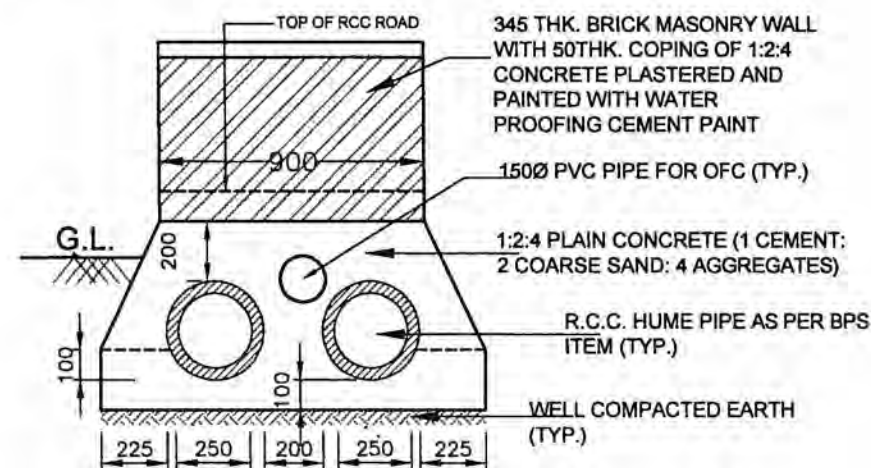
ROAD CROSSING SECTION FOR CABLE TRENCH FOR "SEC-1-1 & 2A-2A"



ROAD CROSSING SECTION FOR CABLE TRENCH "SEC.-2-2"



TYPICAL PLAN OF CABLE TRENCH WITH ROAD CROSSING



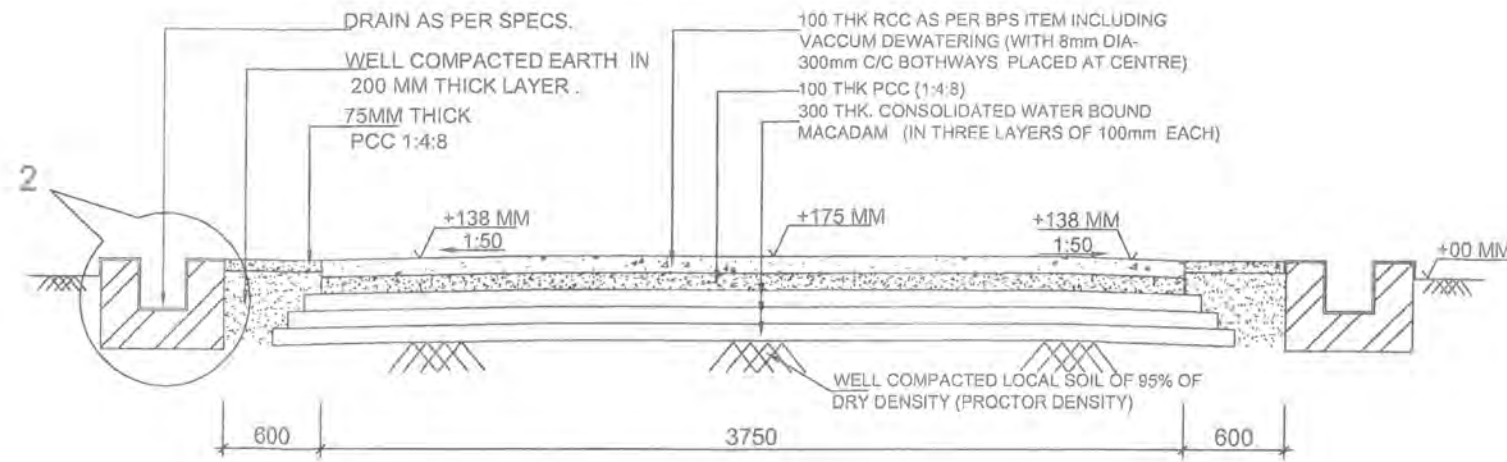
ROAD CROSSING SECTION FOR CABLE TRENCH "SEC.-3-3"

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : DETAILS OF CABLE TRENCHES AND  
CABLE TRENCH ROAD CROSSING ( Sh 4-4 )



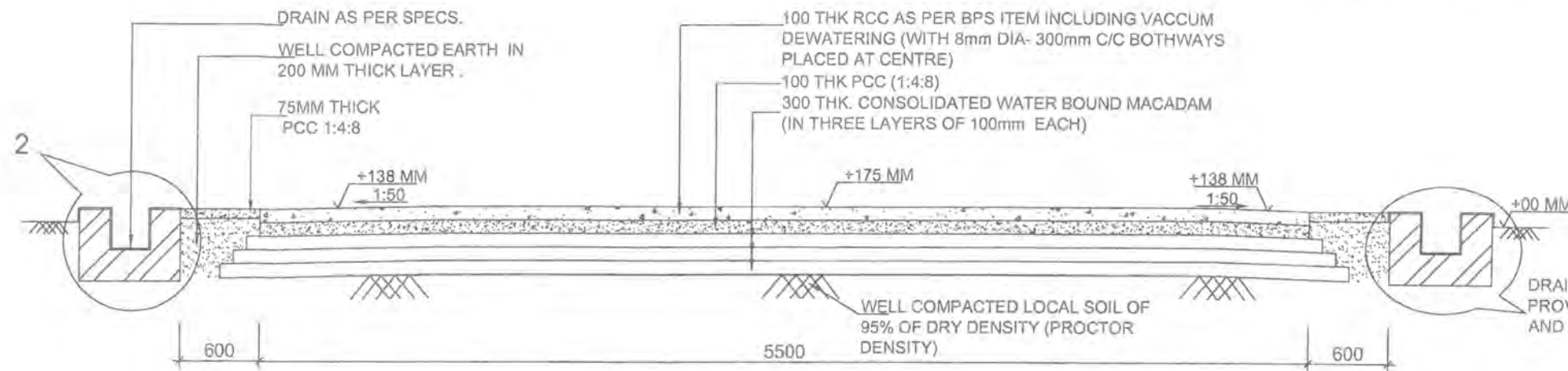
## DETAIL OF CONCRETE ROAD (RIGID PAVEMENT)



TYP. CROSS SECTION OF 3.75 M WIDE ROAD

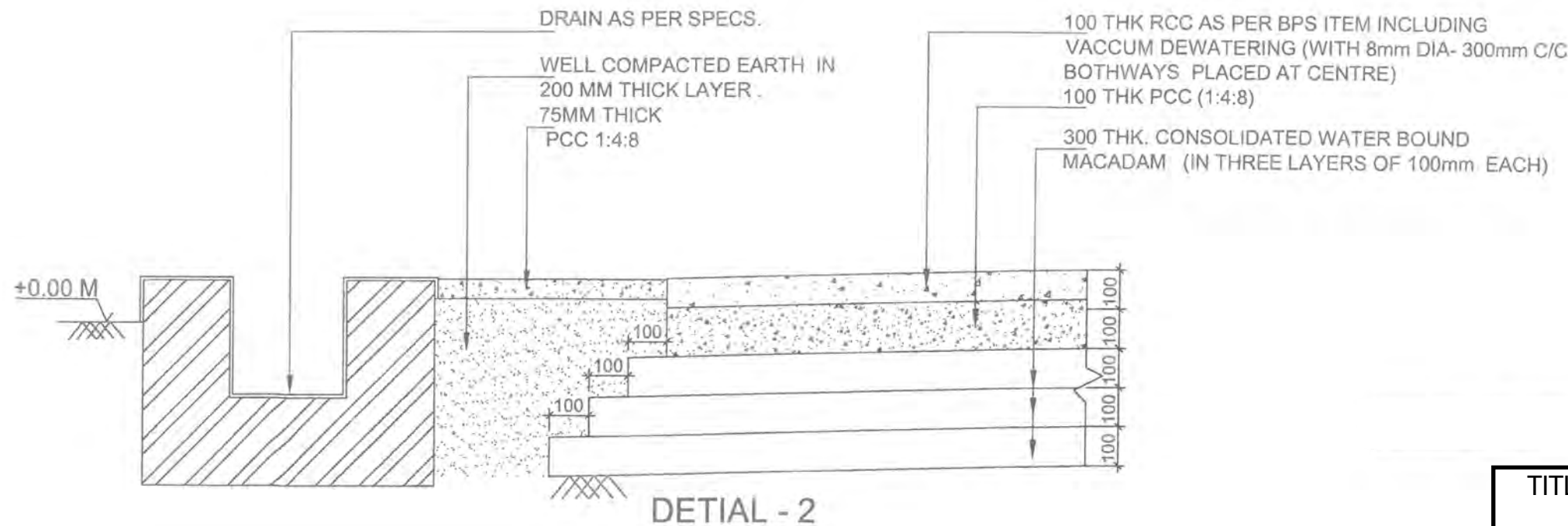
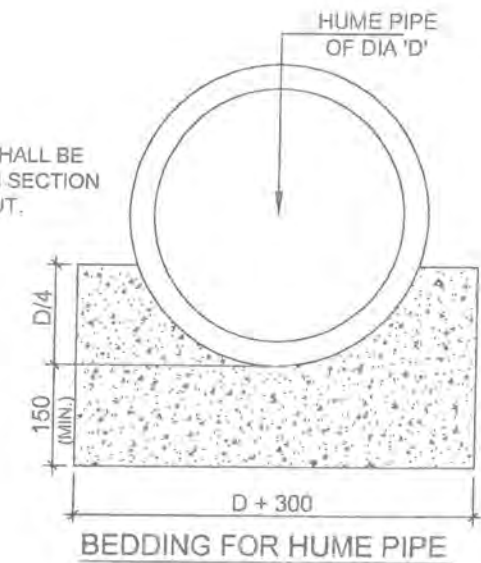
### NOTES:

1. ALL DIMENSION ARE IN MM UNLESS NOTED OTHERWISE.
2. CAMBER OF 1:50 SHALL BE PROVIDED
3. EXPANSION JOINT (12 MM THICK) SHALL BE PROVIDED AT EVERY 8.0 M. EXPANSION JOINT SHALL ALSO BE PROVIDED AT CENTRE.
4. POLYTHENE SHEET OF 125 MICRONS SHALL BE PLACED BETWEEN THE PCC AND RCC SLAB. (TOP SLAB)
5. 100MM DIA. RCC HUME PIPE SHALL BE PLACED ACROSS THE ROAD AT EVERY 100M INTERVAL ALONG THE ROAD.
6. THE KERBS ON BOTH SIDE OF THE ROAD SHALL BE PAINTED YELLOW AND BLACK ALTERNATIVELY
7. FINISHED TOP OF ROAD CREST SHALL BE 175 MM (MIN.) ABOVE F.G.L. HOWEVER, IN CASE APPROACH ROAD IS BEING CONSTRUCTED IN UNLEVELLED AREA THEN CREST LEVEL OF ROAD SHALL BE MINIMUM 300 MM ABOVE H.F.L.
8. IF EXPANSIVE SOIL IS ENCOUNTERED AT FOUNDING LVL. IT SHALL BE REMOVED TO A MIN. DEPTH OF 300 MM AND SHALL BE REPLACED WELL COMPACTED (IN 02 EQ LAYERS) C.N.S. MATERIAL
9. SUFFICIENT SPACE BETWEEN KERB STONES @ 5M C/C SHALL BE PROVIDED TO DRAIN OUT WATER



TYP. CROSS SECTION OF 5.5 M WIDE ROAD

DRAIN ARE INDICATIVE AND SHALL BE PROVIDED AS PER STD DRAIN SECTION AND APPROVED DRAIN LAYOUT.

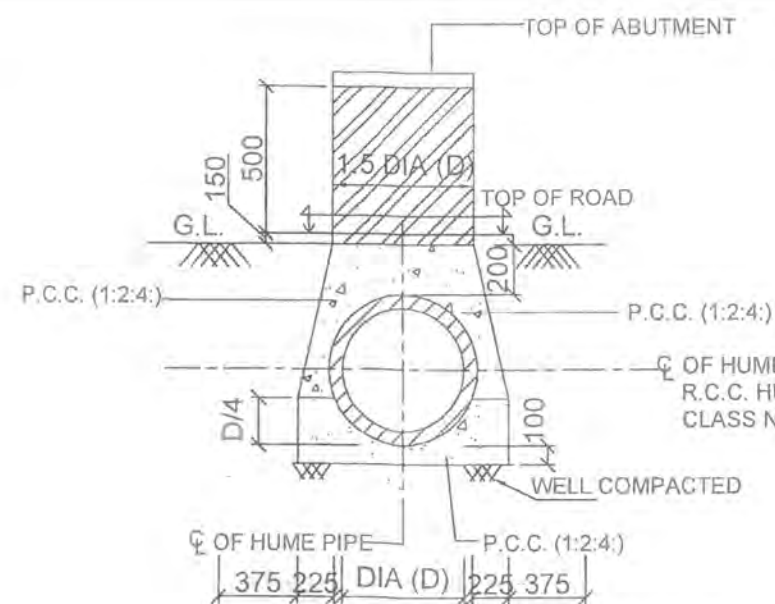


DETIAL - 2

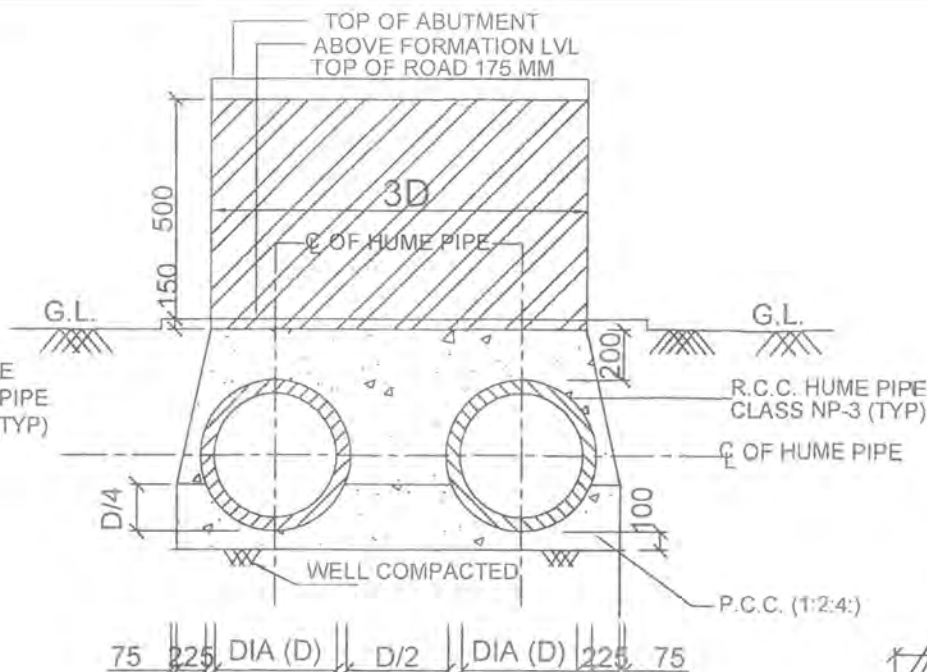
INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

TITLE : DETAIL OF CONCRETE ROAD WITH PCC SHOULDER (RIGID PAVEMENT)

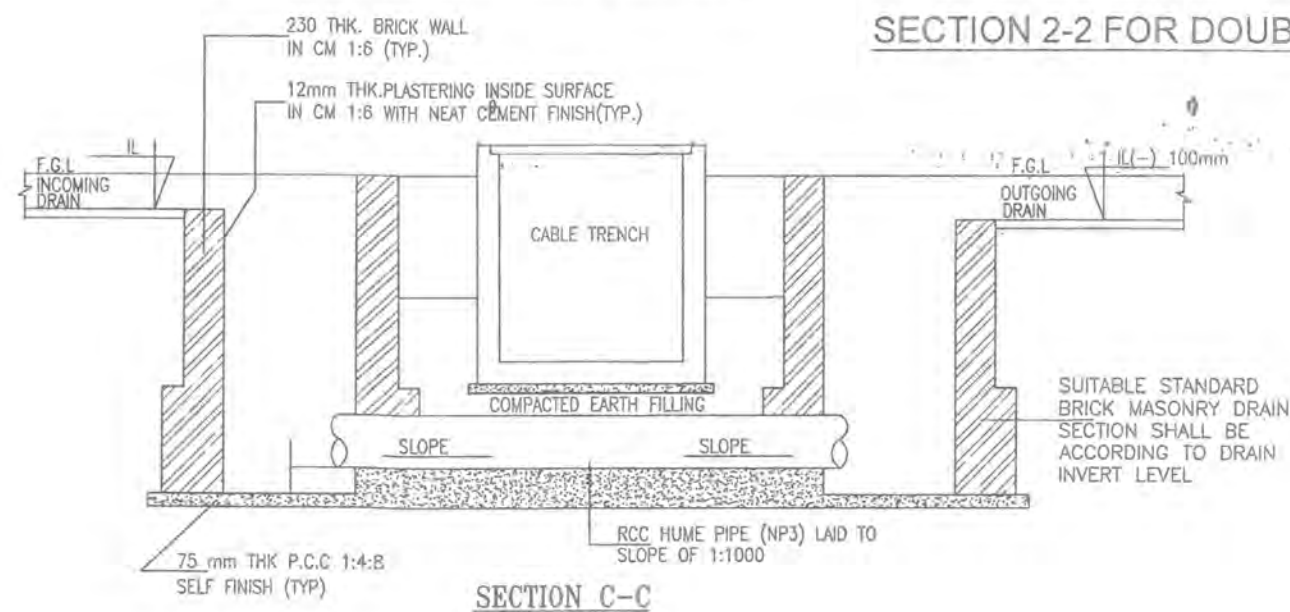




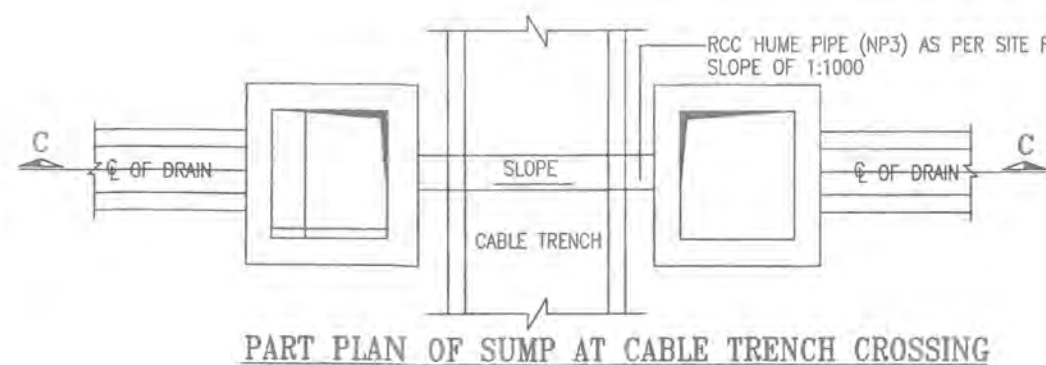
SECTION 1-1 FOR SINGLE PIPE



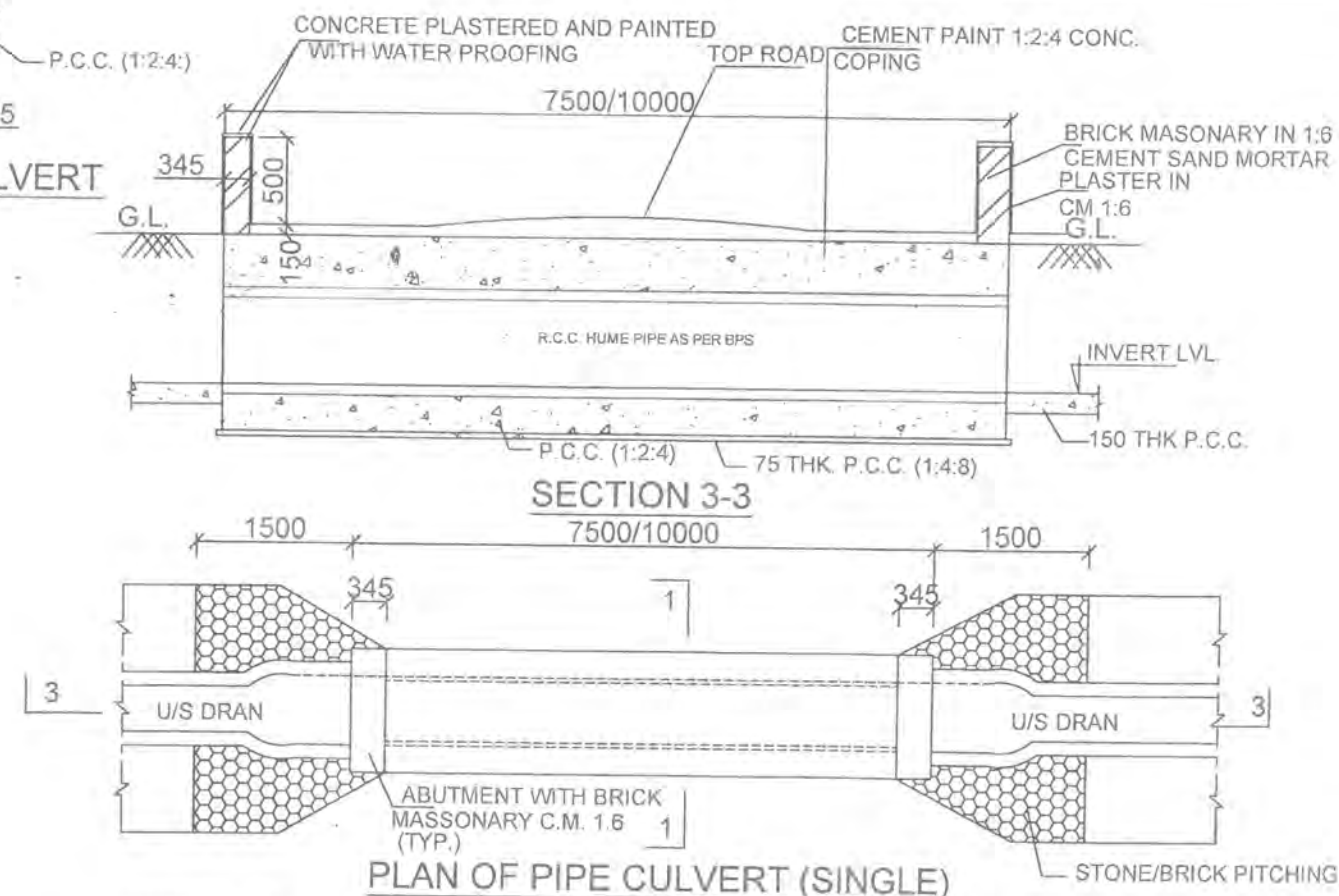
SECTION 2-2 FOR DOUBLE PIPE CULVERT



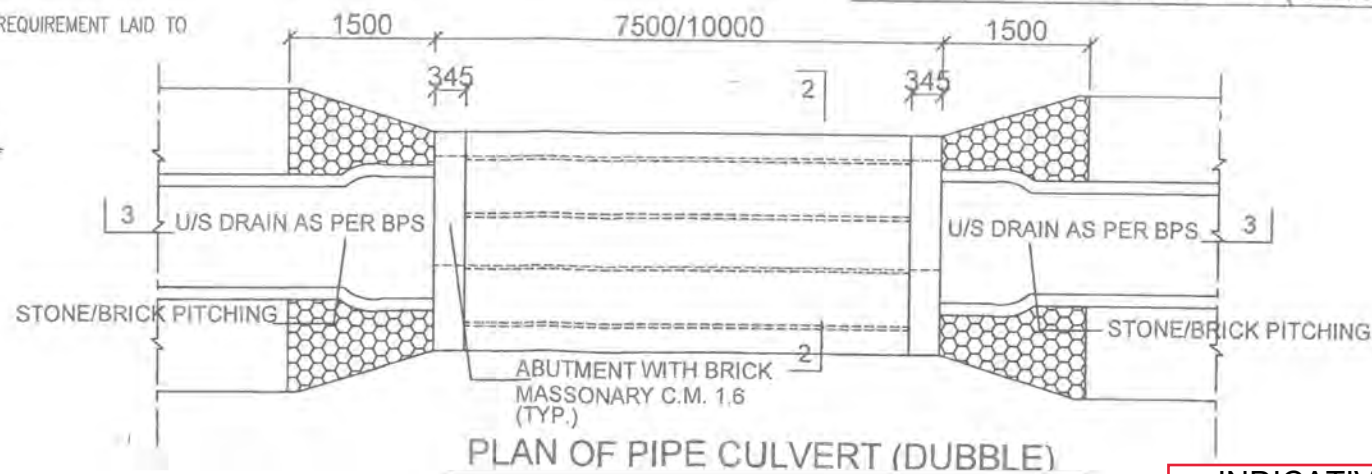
SECTION C-C



PART PLAN OF SUMP AT CABLE TRENCH CROSSING



PLAN OF PIPE CULVERT (SINGLE)



PLAN OF PIPE CULVERT (DOUBLE)

### NOTES:-

1. ALL DIMENSIONS ARE IN MM.
2. DO NOT SCALE THE DRG.
3. RCC HUME PIPE SHALL BE OF GRADE NP3.
4. CLASS 75 BRICKS SHALL BE USED.
5. CONCRETE MIX USE FOR COVERING RCC PIPE SHALL BE 1:2:4(1 CEMENT: 2 COURSE SAND: 4 STONE AGGREGATE OF 20 MM NOMINAL SIZE)
6. LEAN CONCRETE SHALL BE 1:4:8 (1 CEMENT: 4 COURSE SAND: 8 STONE AGGREGATE OF 40 MM NOMINAL SIZE)
7. BRICK MASSONARY SHALL BE DONE USING CEMENT MORTAR (1CEMENT: 6 COURSE SAND)

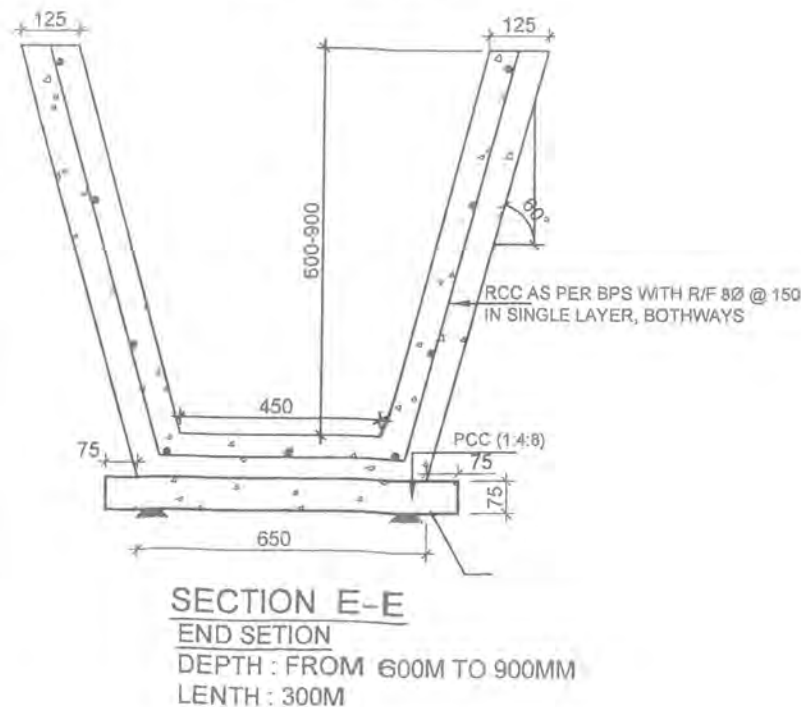
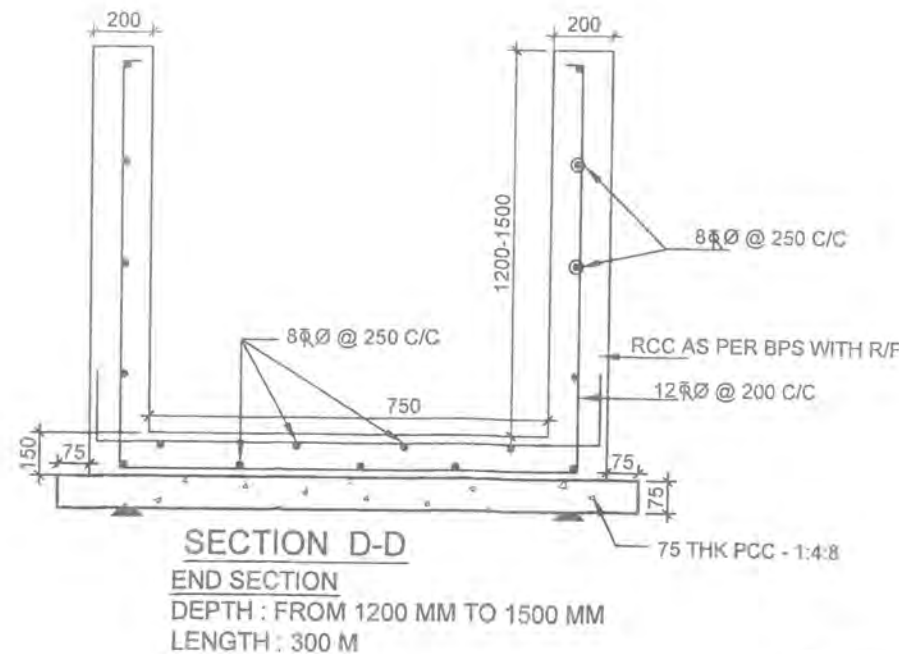
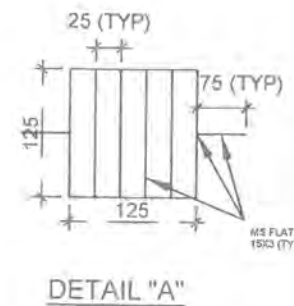
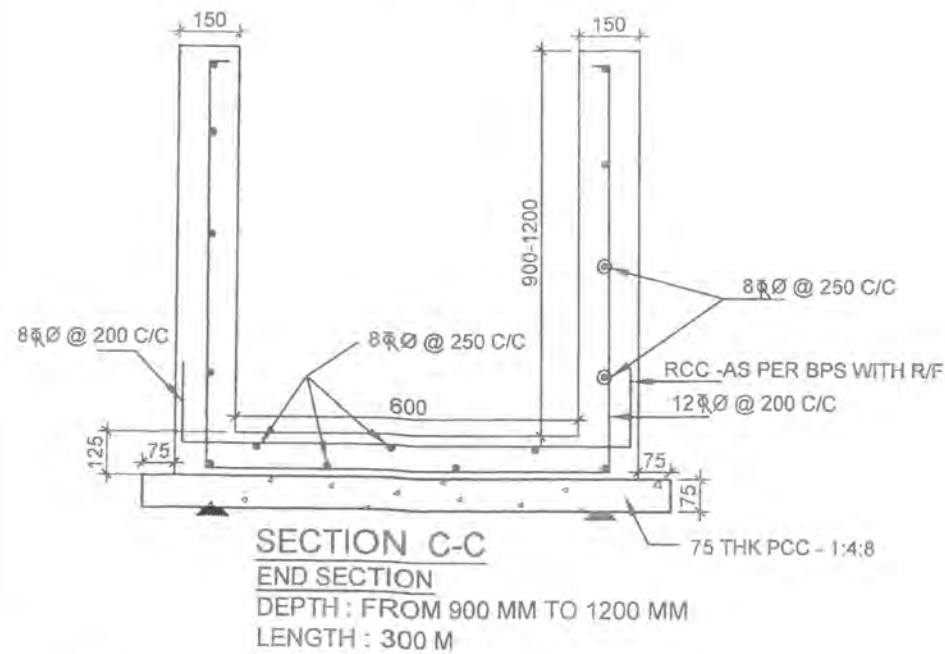
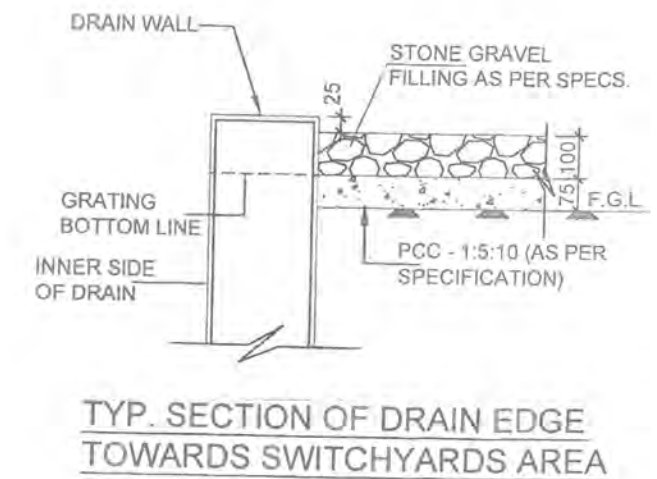
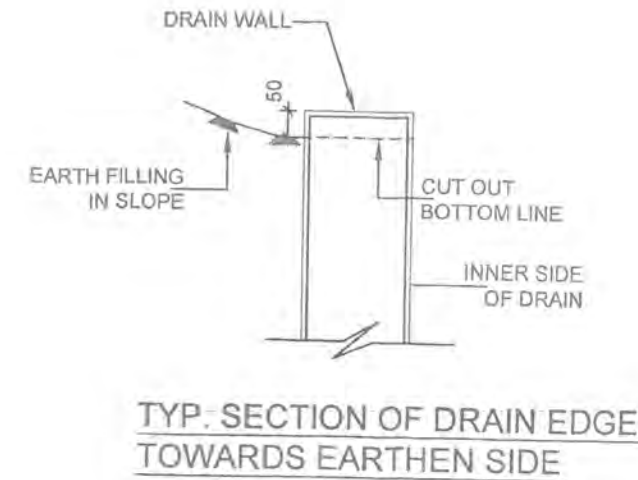
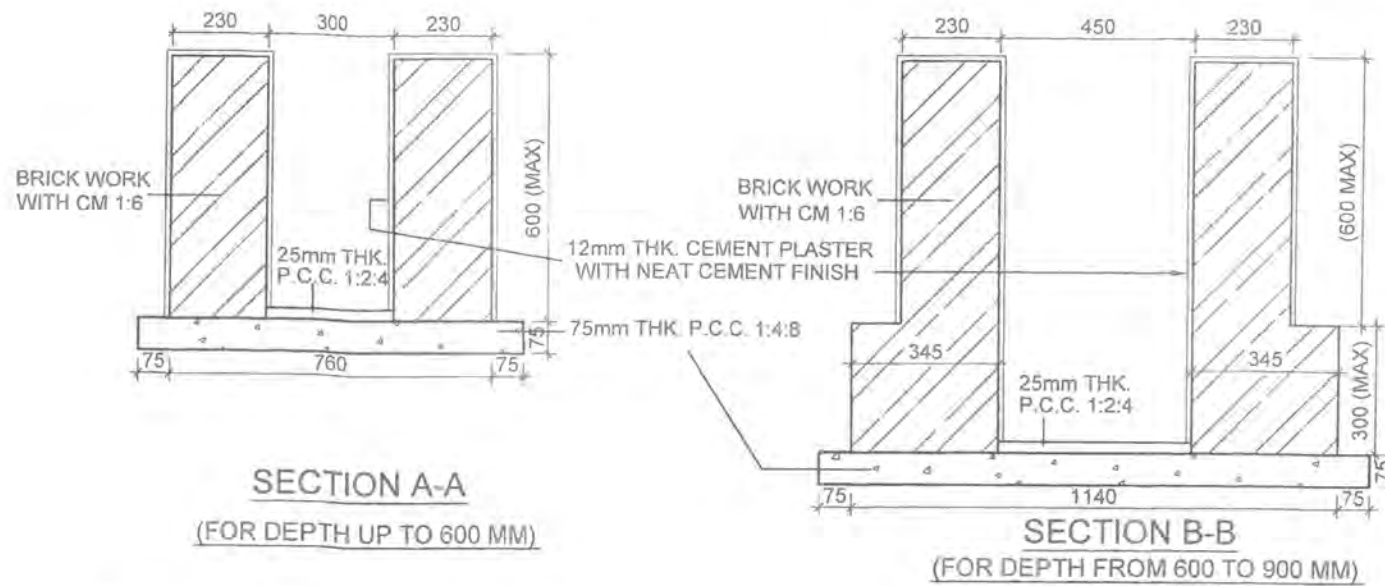
### IMP:

1. SUITABLE SECTION SHALL BE ADOPTED AS PER SITE CONDITIONS

INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

TITLE : DETAIL OF ROAD CULVERTS



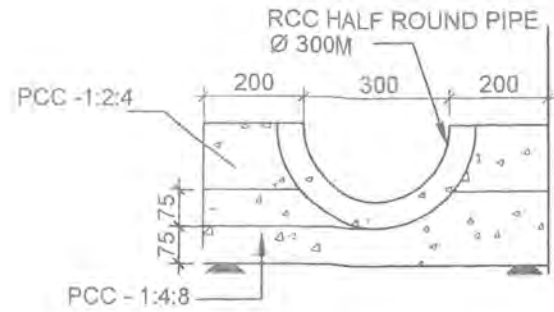


### NOTES:-

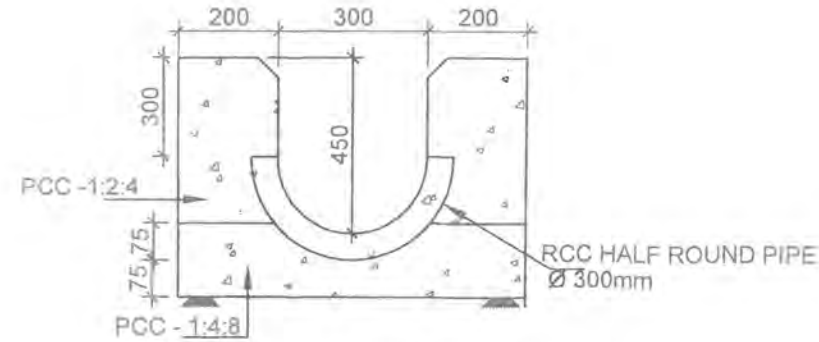
1. ALL DIMENSIONS ARE IN MM. & ELEVATIONS ARE IN METRE UNLESS NOTED OTHERWISE.
2. ALL DRAINS SHALL BE GIVEN A MINIMUM SLOPE OF 1:1000 IN THE LONGITUDINAL DIRECTION
3. ALL REINFORCEMENT SHALL BE AS PER BPS.
4. MINIMUM DEPTH OF DRAIN SHALL BE 300MM BELOW FGL.
5. WHERE EVER TWO SECTIONS ARE MEETING A TRANSITION ZONE SHALL BE CONSTRUCTED HAVING LENGTH 1000mm.
6. 75X75mm WEEP HOLE SHALL BE PROVIDED AT SPACING OF 1500mm HORIZONTALY & 300mm VERTICALLY IN STAGGERED MANNER. HOWEVER 75MMDIA PVC PIPE WEEP HOLE SHALL BE PROVIDED IN CASE OF RCC DRAIN.
7. DEPTH OFF DRAIN IS TAKEN AS HEIGHT FROM TOP OF DRAIN TO INVERT OF DRAIN
8. LAYOUT OF DRAIN WILL BE ISSUED DURING DETAILED ENGINEERING.
9. IF EXPANSIVE SOIL IS ENCOUNTERED AT FOUNDING LVL. IT SHALL BE REMOVED TO AMIN. DEPTH OF 300 MM. AND SHALL BE REPLACED BY WELL COMPACED (IN 03 EQ. LAYERS) LOCALLY AVAILABLE C.N.S. MATERIAL /SAND.
10. WHEREEVER DRAINS ARE COMING IN THE SIDE OF SWITCHYARD / TOWNSHIP ROAD, PROPER COMPACTION BETWEEN EDGE OF ROAD AND DRAIN SHOULD BE ENSURED
11. 20MM WIDE EXPANSION JOINT SHALL BE PROVIDED IN RCC DRAIN @ 45M C/C. THE JOINT SHALL BE FILLED WITH 1:4 CEMENT SAND MORTAR.

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : DETAILS OF DRAIN (Sh 2-2)

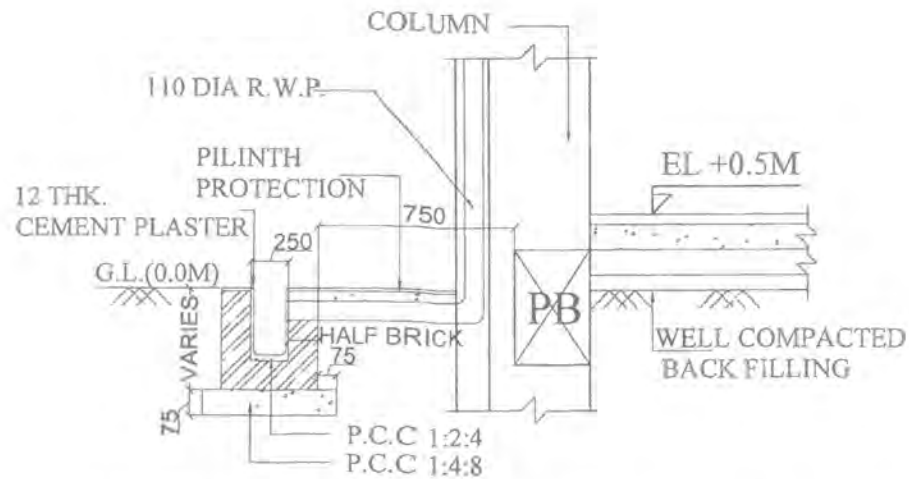
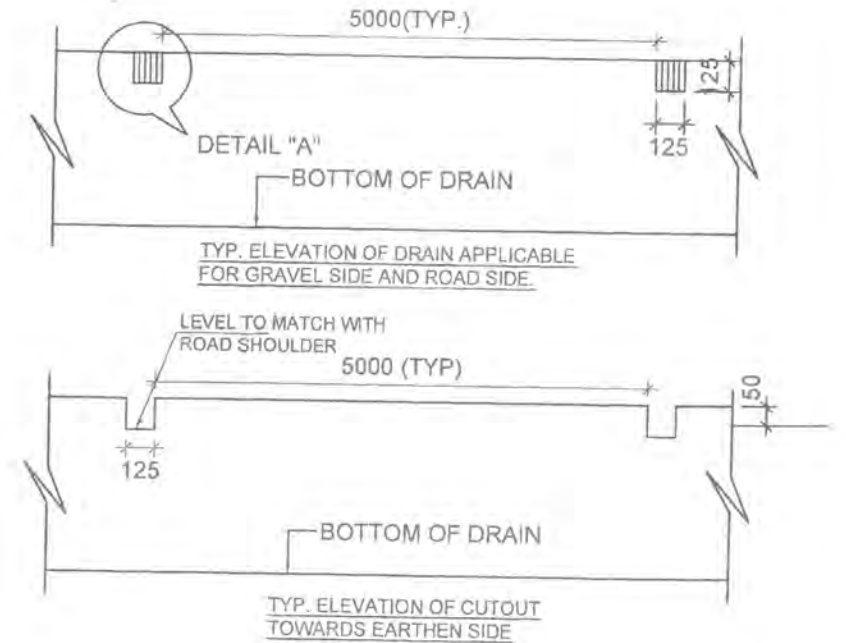
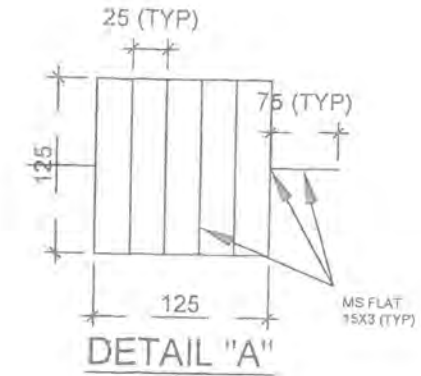


(TO BE USED AT BEGINING 150MM DEPTH)

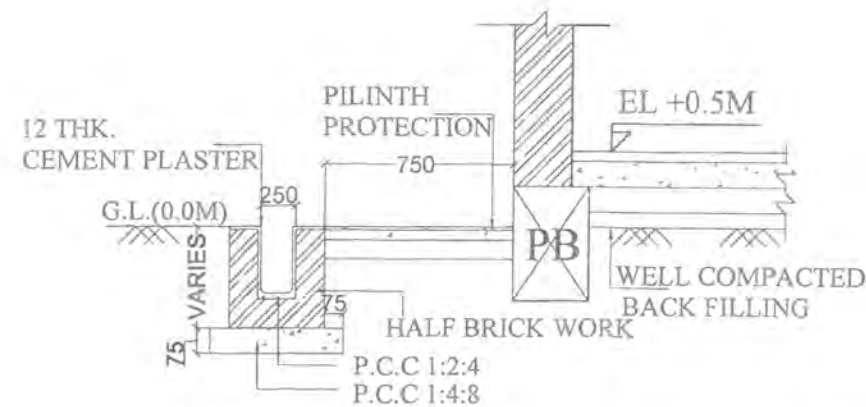


(TO BE USED 150 TO 450 MM DEPTH)

## SECTION F-F



**PLINTH PROTECTION DRAIN WITH RAIN WATER PIPE**  
APPLICABLE FOR ALL BUILDING (REFER TS MEASUREMENT CLAUSE)

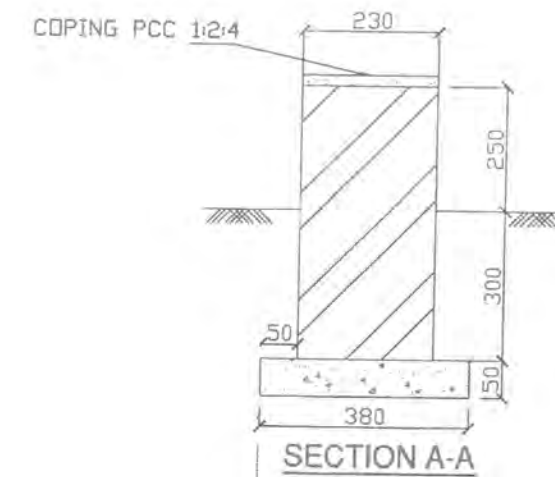
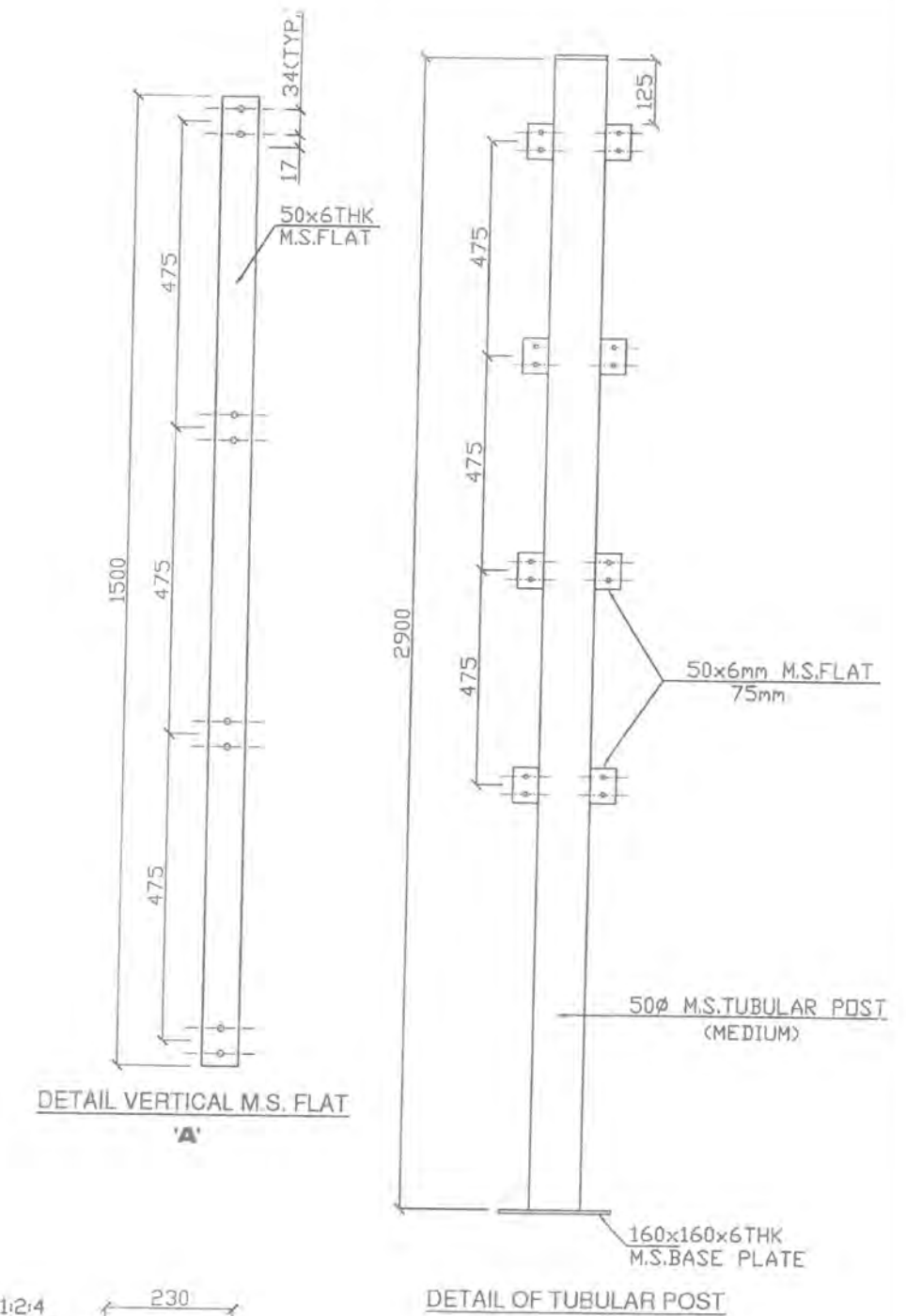
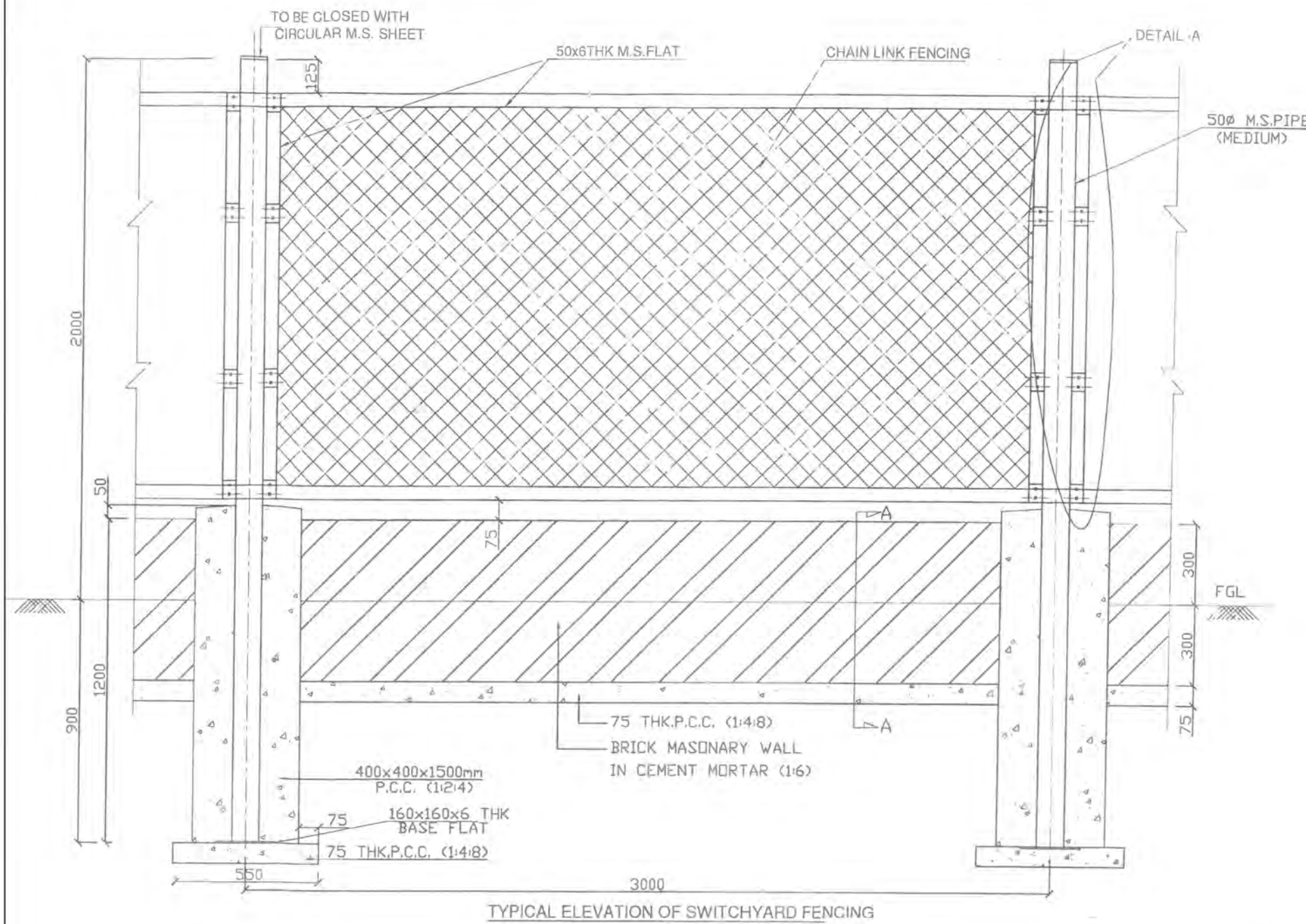


**PLINTH PROTECTION DRAIN (GENERAL)**  
APPLICABLE FOR ALL BUILDING (REFER TS MEASUREMENT CLAUSE)

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : DETAILS OF DRAIN (Sh 2-2)





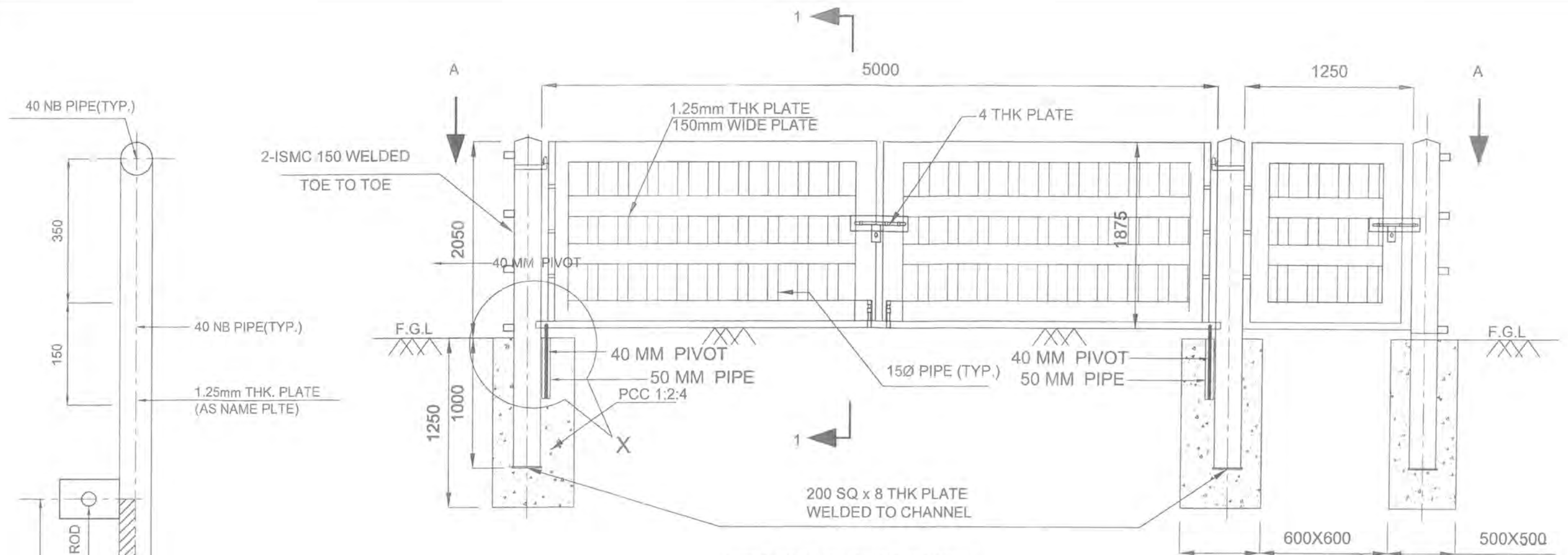
#### NOTES:

1.  $\pm 0.00$  SHALL DENOTE SWITCHYARD FINISHED GROUND LEVEL
2. CHAIN LINK FENCING SHALL HAVE 3.15 mm DIAMETER WIRE AS PER IS 2721 WITH 75x75 mm MESH SIZE AND GALVANISED.
3. TUBULAR POST SHALL BE PLACED @ 3.0m CENTRE TO CENTRE.
4. CORNER TUBULAR POST SHALL BE PROVIDED CLEATS IN FOUR SIDES SUITING TO REQUIREMENT.
5. TUBES/PIPES OF POST SHALL BE GALVANIZED
6. CONCRETE FOR P.C.C. SHALL CONFORM TO CPWD SPECIFICATION.
7. CONCRETE PEDESTAL SHALL BE CAST IN VIRGIN SOIL/WELL COMPACTED EARTH.
8. EXPOSED SURFACE OF BRICK MASONARY/CONCRETE PEDESTAL SHALL BE PLASTERED WITH 12MM THICK CEMENT PLASTER 1:6 AND PAINTED WITH CEMENT PAINT OF REQUIRED SHADE.

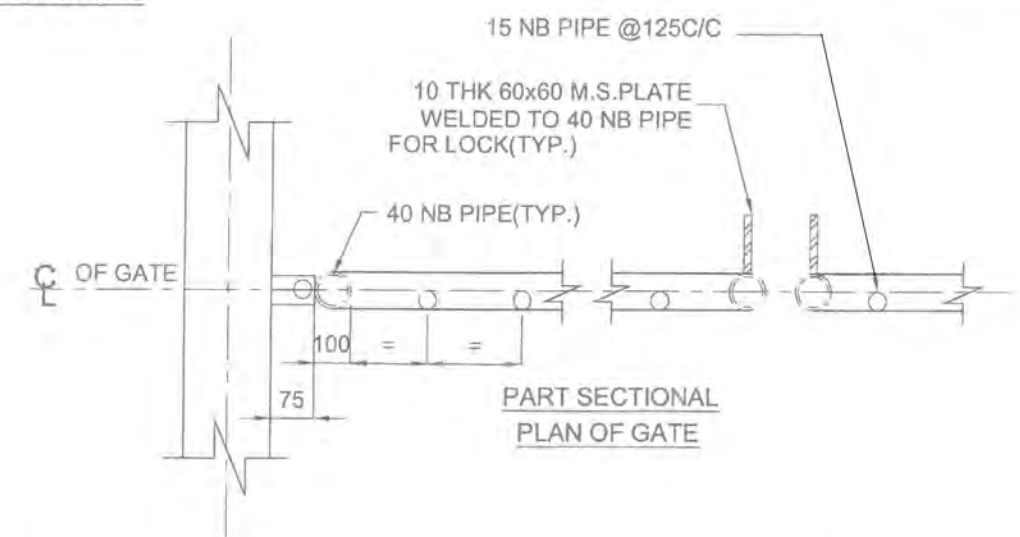
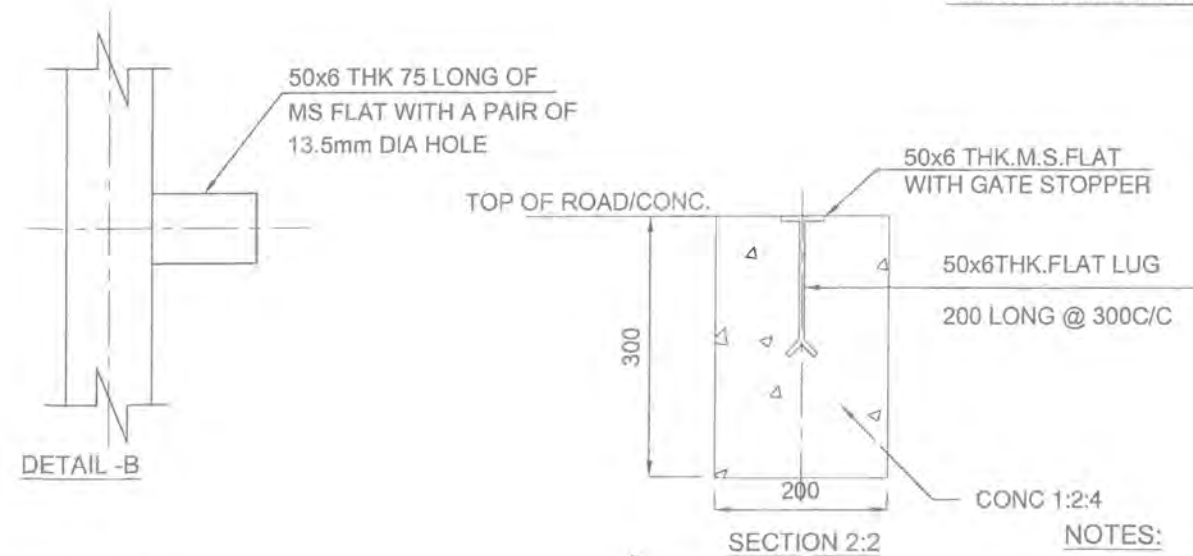
INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : STANDARD DETAILS FOR SWITCHYARD  
CHAIN LINK FENCING





SWITCHYARD FENCING GATE DETAIL



NOTES:

1. ALL DIMENSIONS ARE IN MM & ELEVATION ARE IN METER UNLESS NOTED OTHERWISE
2. ALL LEAN CONC. SHALL BE PCC (1:4:8) UNLESS NOTED OTHERWISE.
3. UNLESS NOTED OTHERWISE LAP/ANCHOR LENGTH SHALL BE 50 TIMES THE DIA OF BARS
4. ALL STRUCTURAL STEEL CONFORM TO IS:2062 & SHALL PAINTED WITH A COAT OF APPROVED STEEL PRIMER & TWO COATS OF SYNTHETIC ENAMEL. PAINT UNLESS NOTED OTHERWISE.
5. DROP BOLTS SHOULD BE PROVIDED ON THE FAR SIDE ONLY.
6. ALL WELDS ARE 6MM THK. FILLET WELDS UNLESS NOTED OTHERWISE.
7. GATE & M.S. HOOKS TO BE PAINTED WITH ONE COAT APPROVED STEEL PRIMER BEFORE ERECTION & TWO COATS OF SYNTHETIC PAINT AFTER ERECTION.
8. STRUCTURAL PIPES SHALL BE MEDIUM TYPE CONFORMING TO IS 1161/806

INDICATIVE DRAWING FOR TENDER  
PURPOSE ONLY

TITLE : DETAILS OF SWITCHYARD GATE