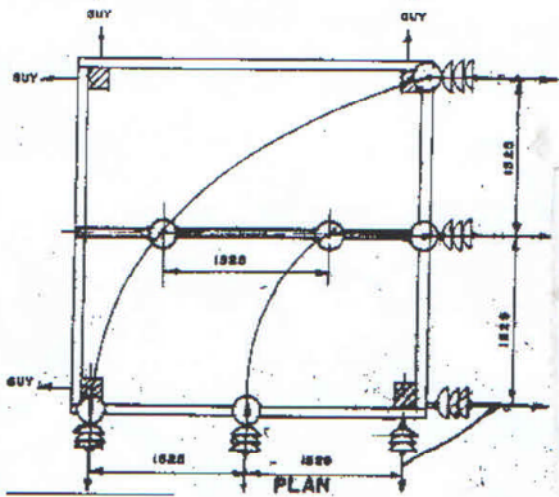


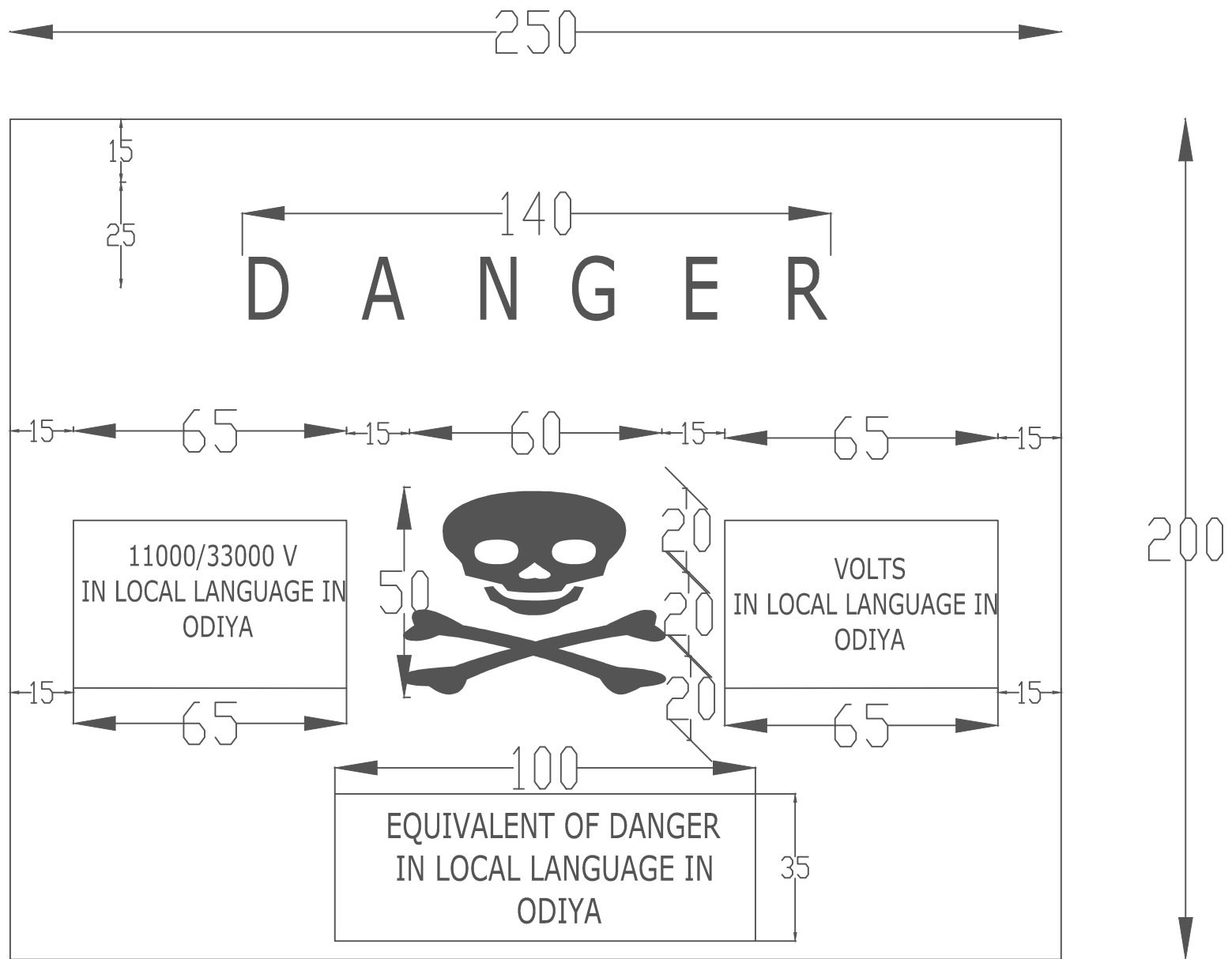
BILL OF MATERIAL

SUPPORT 9-0M	4 Nos.
33 KV PIN INSULATORS	8 Nos.
33 KV DISC INSULATORS	6 SETS
M.S. CHANNEL 100X80X6-510	8 Nos.
∠60 X63X6 BELT	8 Nos.
∠60X80X6 BRACING	8 Nos.
EARTHING MATERIAL	AS REQD.
NUTS, BOLTS, POLE CLAMPS Etc.	AS REQD.
BASE PLATE	4 Nos.
GUY SET	4 Nos.



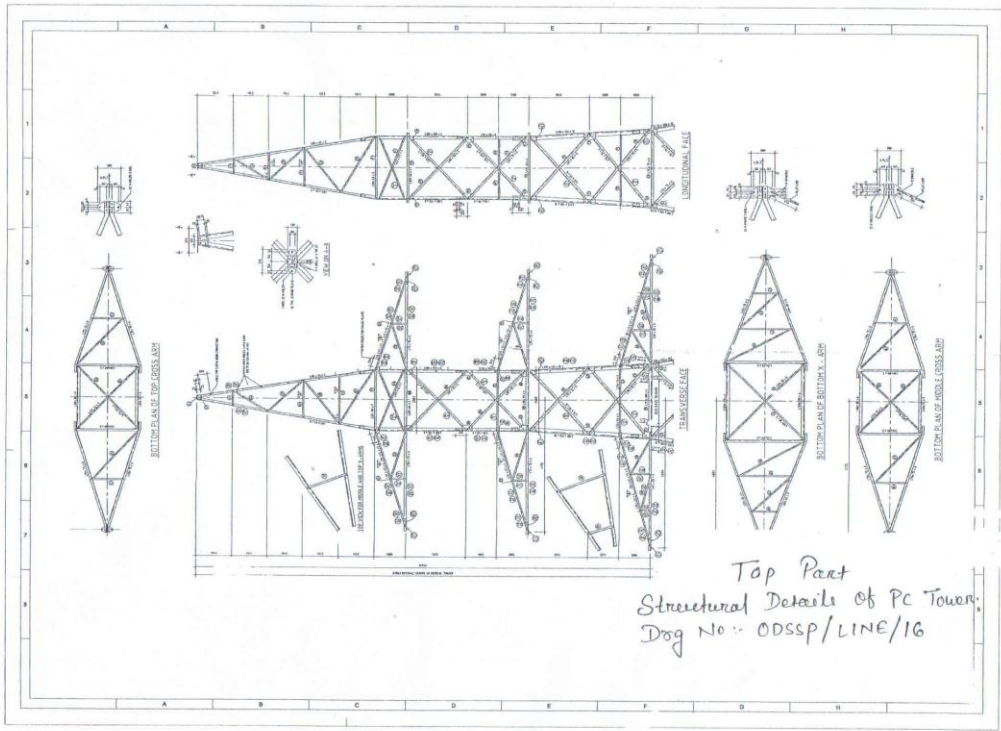
33 KV dim & Arrangement of
Conductors at angle location
Tower Pole Arrangement
(60° to 90° deviation)

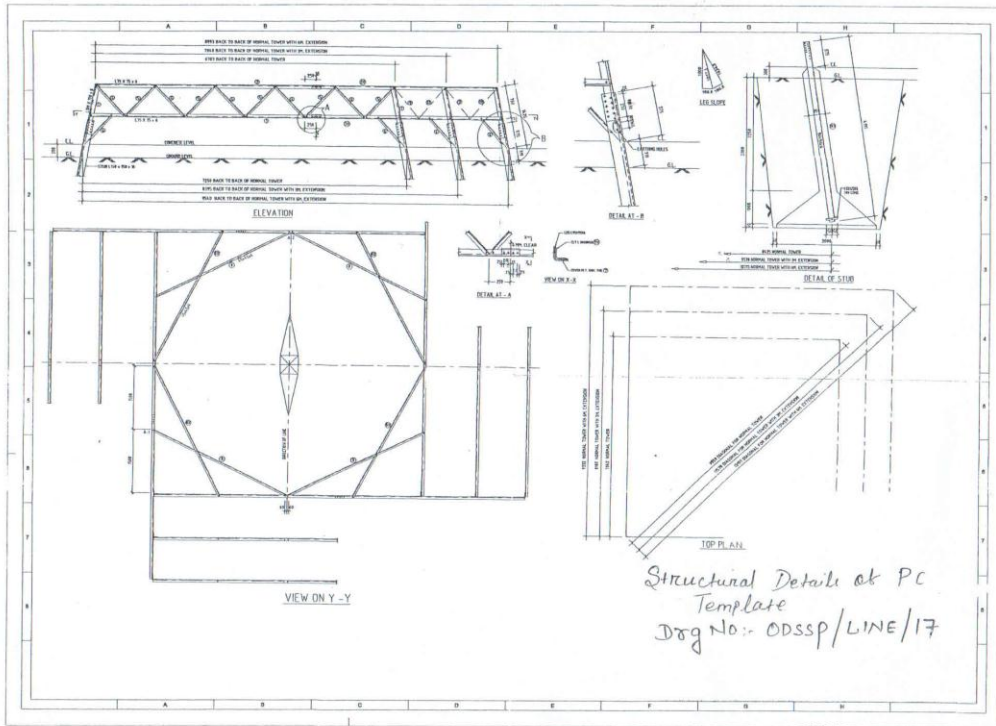
Doc.No-ODSSP/LINE/14



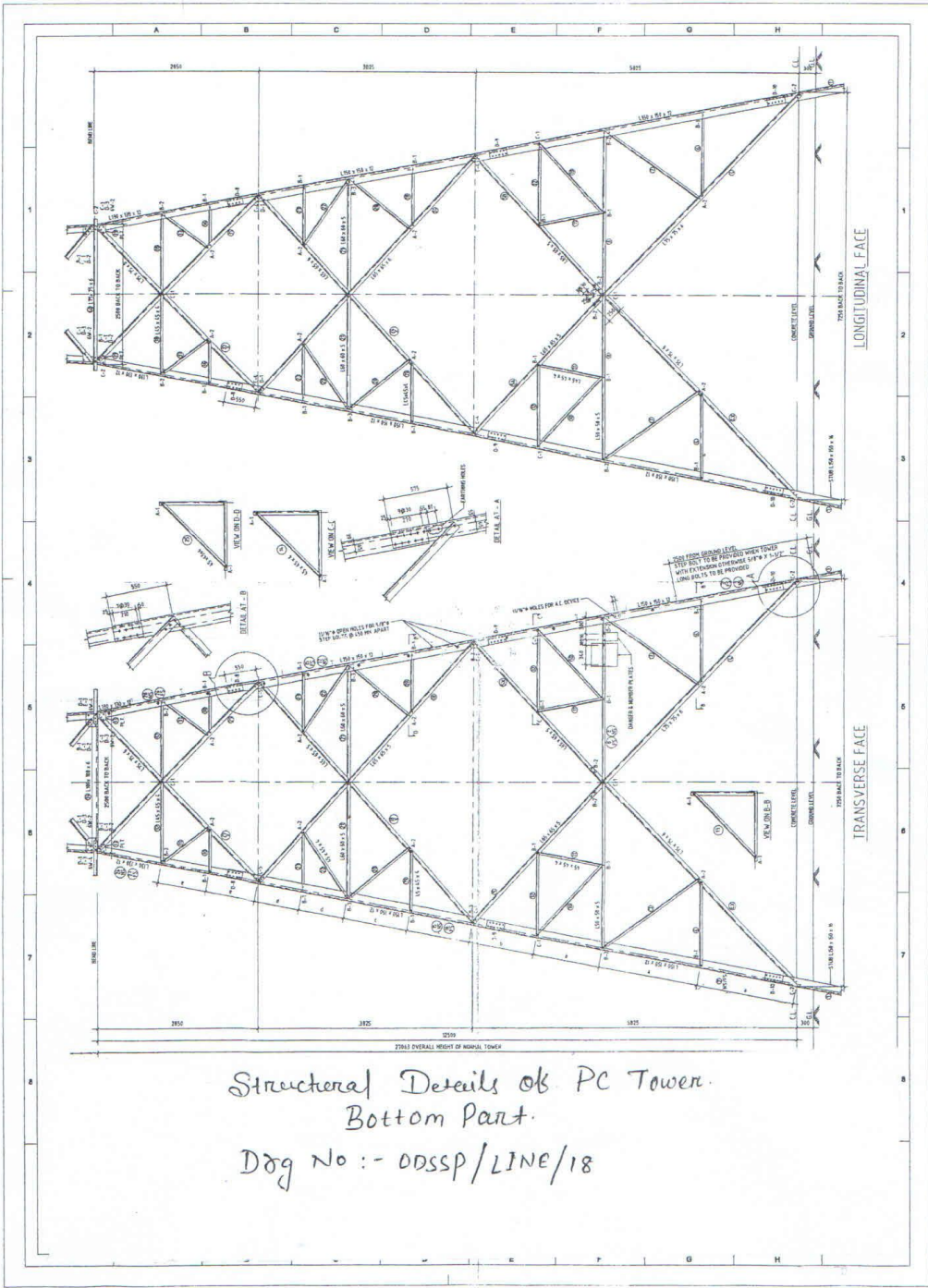
33 & 11 kV DANGER BOARD

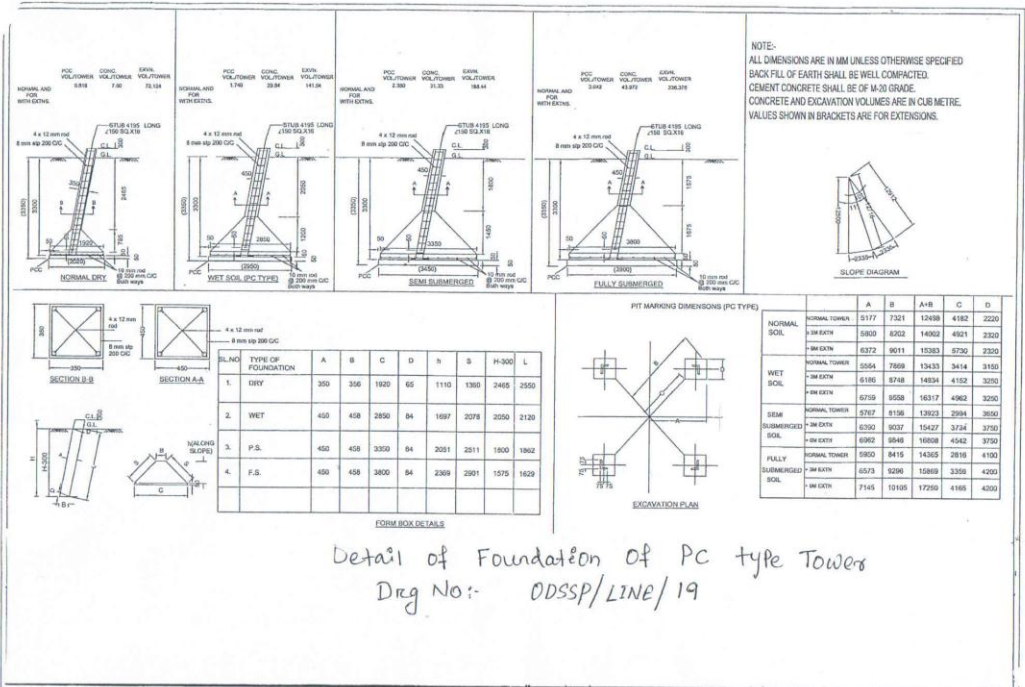
DRG NO .- ODSSP / LINE / 15



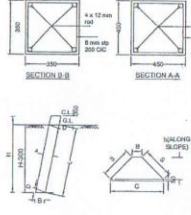


Structural Details at PC
 Template
 Dwg No:- ODSSP/LINE/17

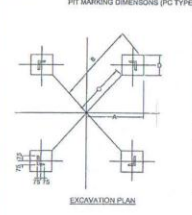




NOTE:-
 ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 BACK FILL OF EARTH SHALL BE WELL COMPACTED.
 CEMENT CONCRETE SHALL BE OF M-20 GRADE.
 CONCRETE AND DICHAITION VOLUMES ARE IN CUBIC METRE.
 VALUES SHOWN IN BRACKETS ARE FOR EXTENSIONS.

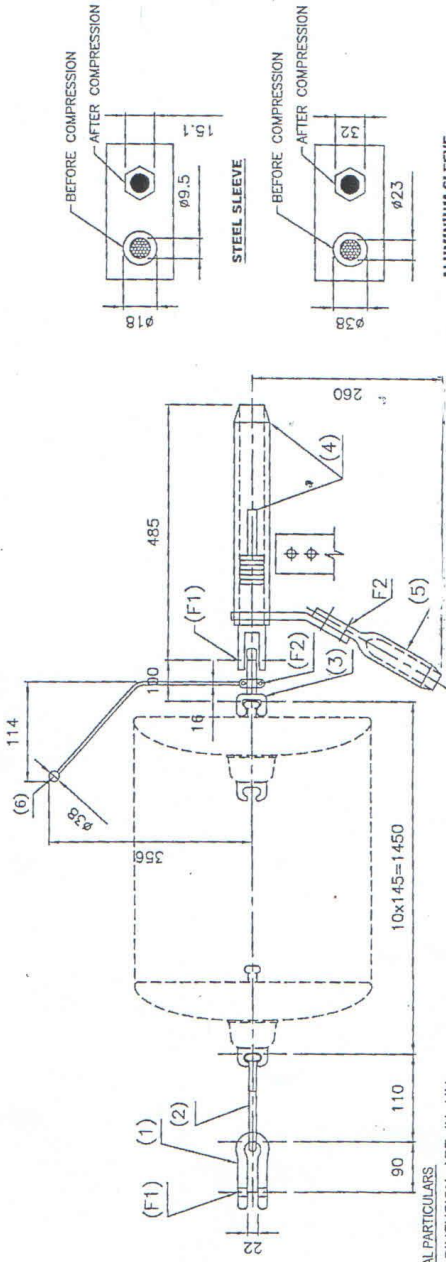


S/L NO	TYPE OF FOUNDATION	A	B	C	D	h	S	H-300	L
1.	DRY	350	356	1920	65	1110	1360	2485	2550
2.	WET	450	458	2850	84	1687	2078	2050	2120
3.	P.S.	450	458	3350	84	2051	2511	1900	1902
4.	F.S.	450	458	3800	84	2309	2901	1575	1629



	A	B	A/B	C	D
NORMAL TOWER	5177	7321	12498	4182	2220
NORMAL SOIL	5800	8202	14002	4921	2320
WET TOWER	6372	9011	15383	5730	2320
WET SOIL	6556	7869	13433	3414	3140
SEMI-SUBMERGED TOWER	6180	8748	14834	4152	3250
SEMI-SUBMERGED SOIL	6758	9558	16317	4962	3290
FULLY-SUBMERGED TOWER	5787	8156	13923	3994	3650
FULLY-SUBMERGED SOIL	6390	9037	15427	3734	3750
NORMAL TOWER	6992	9846	16088	4542	3750
NORMAL SOIL	5920	8415	14205	2916	4190
WET TOWER	6573	9286	15889	3358	4205
WET SOIL	7143	10105	17289	4168	4300

Detail of Foundation of PC type Towers
 Dwg No:- ODSSP/LINE/19



TECHNICAL PARTICULARS

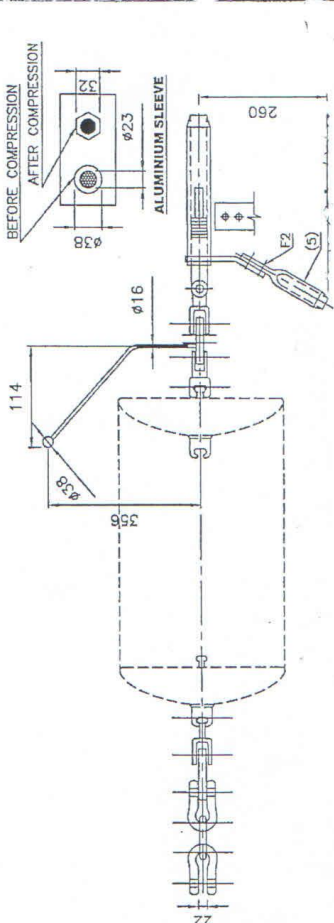
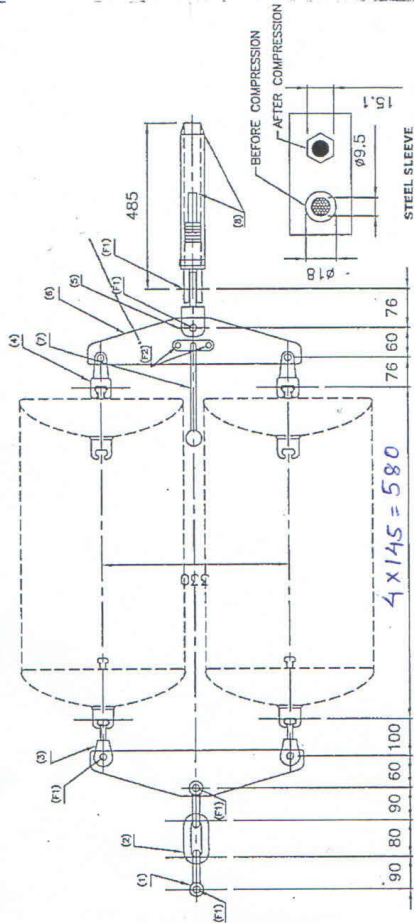
1. ALL DIMENSION ARE IN MM.
2. DIMENSION TOL. $\pm 5\%$ (ONLY MAJOR DIMENSION)
3. REF. IS-2486 (PART 1 TO 4)
4. MECHANICAL STRENGTH :
 - a. ULT. BREAKING - 120 KN.
 - b. SLIP - 95% OF THE UTS OF THE CONDUCTOR.
5. HARDWARE ARE SUITABLE FOR 20 MM BALL & SOCKET.
6. FERROUS PARTS ARE HOT DIP GALVAND SP. & FL. WASHERS ELECTROGALV. - IS : 2633/2629.
7. THE ELECTRICAL RESISTANCE OF DEAD END CLAMP AFTER COMPRESSION WILL NOT BE MORE THAN 75% OF THE RESISTANCE OF EQUIVALENT LENGTH OF CONDUCTOR.

Single Tension Hardware Assembly for single ACSR Pantkyr

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	ANCHOR SHACKLE	FORGED STEEL	1 NO
2	BALL LINK	FORGED STEEL	1 NO
3	SOCKET EYE (HH)	FORGED STEEL	1 NO
4	COMPRESSION TYPE DEAD END ASSEMBLY	UNITED AL. ALUM & STEEL	1 Set
5	JUMPER CONE	EXTRUDED AL. ALLOY	1 NO
6	LS ARCING HORN	MS ROD	1 NO
F1	M20 BOLT, NUT & FL. WASHER	MILD STEEL	2 Nos
F2	M12 BOLT, NUT, FL. & SP. WASHER	MILD STEEL	4 Nos

Drwg No:- ODSSP/LINE/20



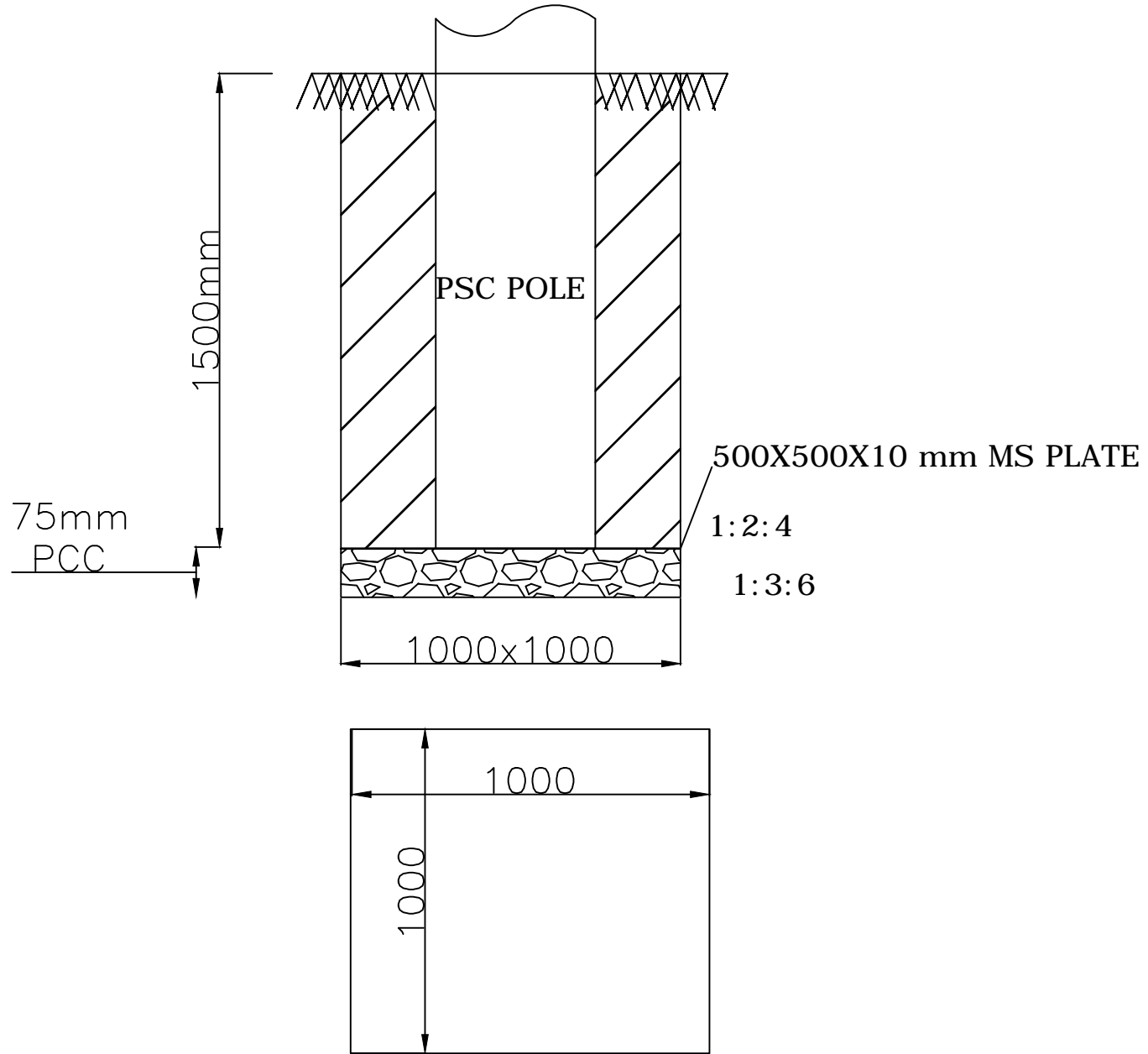
BILL OF MATERIALS.

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	ANCHOR SHACKLE	FORGED STEEL	2 Nos
2	CHAIN LINK	FORGED STEEL	1 NO
3	BALL CLEVIS	FORGED STEEL	2 Nos
4	SOCKET CLEVIS	FORGED STEEL	2 Nos
5	CLEVIS EYE	FORGED STEEL	1 NO
6	YOKE PLATE	MS. PLATE	2 Nos
7	LS ARCING HORN	MS ROD	1 No
8	CUM. TYP. 1000 ASSM. WITH ST. STEEL & ALUM. ONE DRAWN R. AUTY & IS	1 Set	1 No
F1	M20 BOLT, NUT & FL. WASHER	MILD STEEL	8 Nos
F2	M12 BOLT, NUT, SP. & FL. WASHER	MILD STEEL	4 Nos

- TECHNICAL PARTICULARS**
- ALL DIMENSION ARE IN MM.
 - DIMENSION TOL. ±5%. (ONLY MAJOR DIMENSION)
 - REF. IS-2486 (PART 1 TO 4)
 - MECHANICAL STRENGTH :
 - ULT. BREAKING - 120 KN.
 - SLIP - 95% OF THE UTS OF THE CONDUCTOR.
 - HARDWARE ARE SUITABLE FOR 20 MM BALL & SOCKET.
 - FERROUS PARTS ARE HOT DIP GALVANIZED. SP. & FL. WASHERS ELECTROGALV. - IS : 2653/2629.
 - THE ELECTRICAL RESISTANCE OF DEAD END CLAMP AFTER COMPRESSION WILL NOT BE MORE THAN 75% OF THE RESISTANCE OF EQUIVALENT LENGTH OF CONDUCTOR.

Double Tension Hardware Assemble
for Single ACSR Panther.
Dog. No- ODSSP/ LINE/21

CONCRETING OF PSC POLES

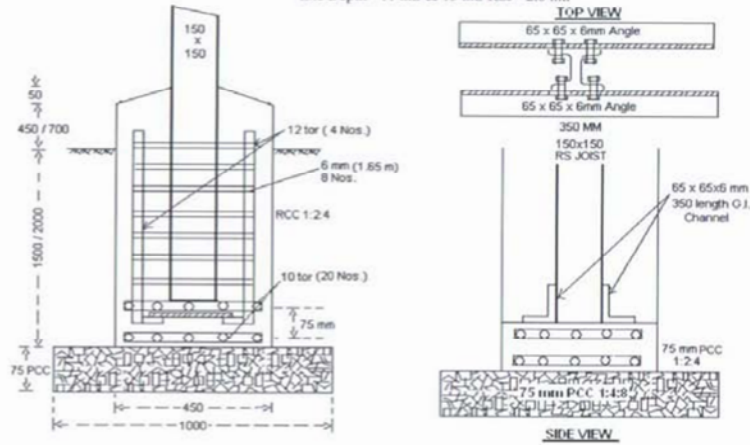


Drg No.-ODSSP/CIVIL/1-REV-A

FOUNDATION FOR RS JOIST POLE

Exc Depth- 9 mtr & 10 mtr RSJ= 1.5 mtr

Exc Depth - 11 mtr & 13 mtr RSJ= 2.0 mtr



<u>FOUNDATION FOR RS JOIST POLE</u>					
	<u>RS JOIST- 9 Mtr & 10 Mtr</u>		<u>RS JOIST- 11 Mtr & 13 Mtr</u>		
	<u>Urban Area</u>	<u>Rural Area</u>	<u>Urban Area</u>	<u>Rural Area</u>	
1	Excavation	1 x 1 x 1.575 = 1.575 cum	1 x 1 x 2.075 = 2.075 cum	1 x 1 x 2.075 = 2.075 cum	1 x 1 x 2.075 = 2.08 cum
2	PCC (1:4:8)	1 x 1 x 0.075 = 0.075 cum	1 x 1 x 0.075 = 0.075 cum	1 x 1 x 0.075 = 0.075 cum	1 x 1 x 0.075 = 0.08 cum
3	RCC (1:2:4)	0.45 x 0.45 x 1.950 = 0.39 cum	0.45 x 0.45 x 2.25 = 0.46 cum	0.45 x 0.45 x 2.45 = 0.50 cum	0.45 x 0.45 x 2.75 = 0.56 cum
4	ROD :10 Tor	0.4 mtr x 20nos x 0.617 kg = 5 Kg.	0.4 mtr x 20nos x 0.617 kg = 5 Kg.	0.4 mtr x 20nos x 0.617 kg = 5 Kg.	0.4 mtr x 20nos x 0.617 kg = 5 Kg.
	12 Tor	2.25 mtr x 4 no x 0.888 kg = 8.01 Kg.	2.5 mtr x 4 no x 0.888 kg = 8.9 Kg.	2.75 mtr x 4 no x 0.89 kg = 9.79 Kg.	3.0 mtr x 4 no x 0.89 kg = 10.7 Kg.
	6 mm	1.65 x 8 no. x 0.22 = 2.90 Kg.	1.65 x 9 no. x 0.22 = 3.26 Kg.	1.65 x 10 no. x 0.22 = 3.63 Kg.	1.65 x 11 no. x 0.22 = 4.000 Kg.
	Total Rod	= 15.85 Kg.	= 17.16 Kg.	= 18.42 Kg.	= 19.68 Kg.
5	Angle (65x65x6 mm)	350 mm x 2no x 5.8 kg. = 4.06 Kg.	350 mm x 2no x 5.8 kg. = 4.06 Kg.	350 mm x 2no x 5.8 kg. = 4.06 Kg.	350 mm x 2no x 5.8 kg. = 4.06 Kg.

N.B.: 1. Side concrete should be 40 mm above pedestra.
 2. Plain side clips 2 No.-65 x 65 x 6mm x 350 mm length each clip should have 2 no. 16 mm x 30 mm size bolts with pack end spring washers.

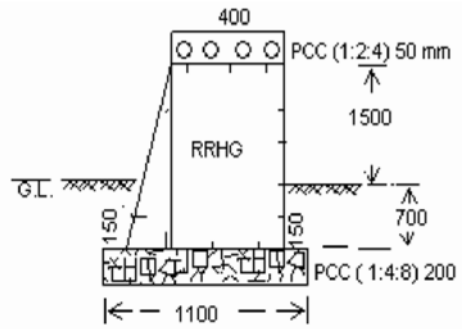
PCC 1:4:8 MENTIONED ABOVE IS TO BE PCC 1:3:6

RCC 1:2:4 MENTIONED ABOVE IS TO BE RCC 1:1.5:3

EXCAVATION FOR 11M & 33M FOR RS JOIST POLE IS 2.075 M

DRG NO. - ODSSP /CIVIL/2-REV-A

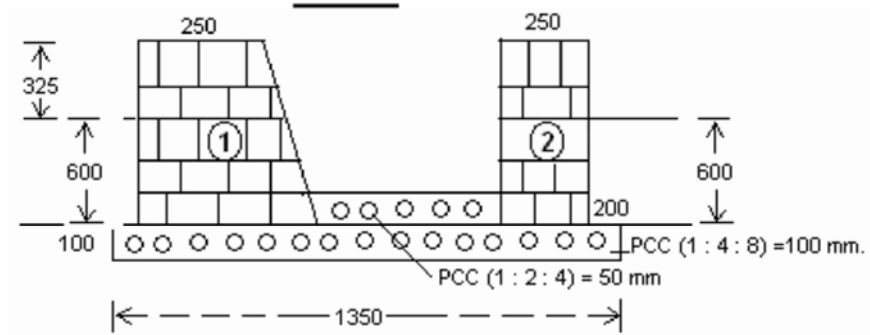
RETAINING WALL WHERE EARTH FILLING 1 MTR.



PCC 1:4:8 MENTIONED ABOVE IS TO BE PCC 1:3:6

DRG NO.-ODSSP /CIVIL/6-REV-A

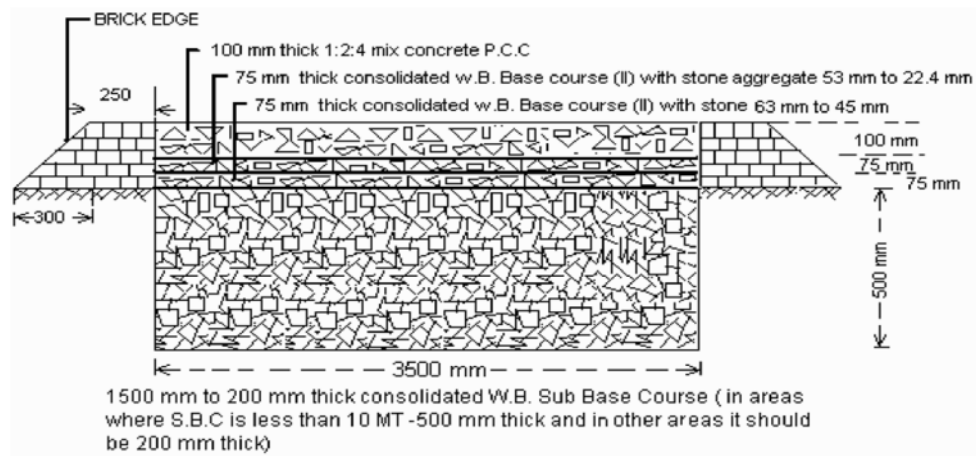
DRAIN



PCC 1:4:8 MENTIONED ABOVE IS TO BE PCC 1:3:6

DRG NO.-ODSSP /CIVIL/7-REV-A

ROAD INSIDE SUB STATION

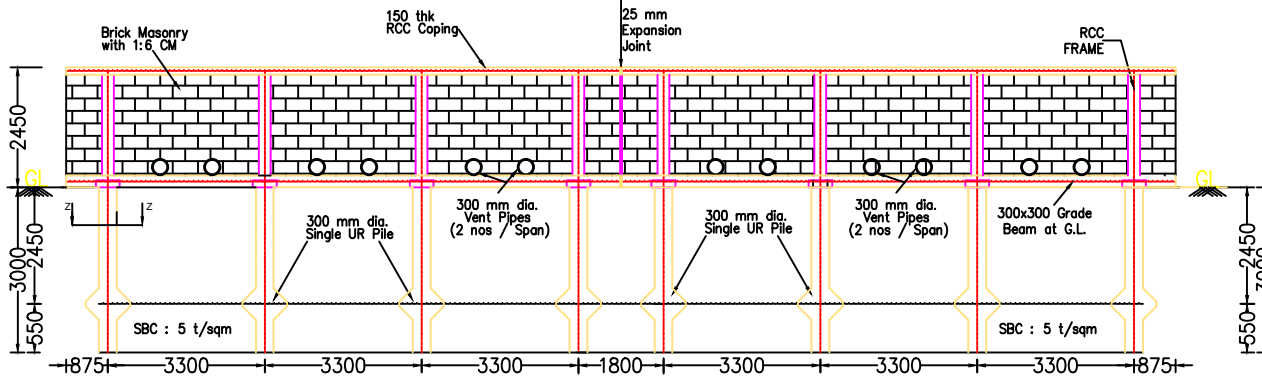


DRG NO.-ODSSP/CIVIL/11-REV-A

PCC 1:2:4 MENTIONED ABOVE IS TO BE PCC 1:3:6

WIDTH OF THE ROAD MENTIONED ABOVE i.e 3500 MM TO BE 5000MM

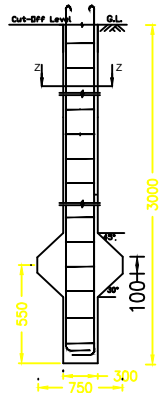
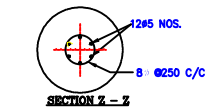
PILE FOUNDATION



G.A. FOR TWO CONSEQUITIVE UNITS

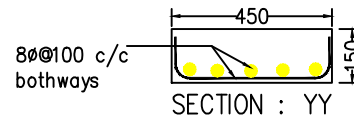
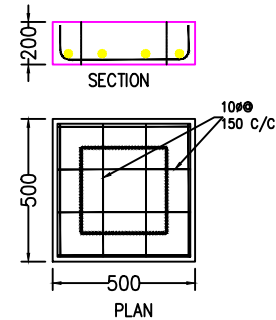
NOTES

1. All dimensions are in mm and m.
2. All levels are in m.
3. All grades of RCC are in M20.
4. All grades of Steel are in Fe500.
5. All cover to column reinforcement 40mm and beam 25mm.
6. Lap length 55 ϕ , Not more than 50% bars are to be lapped at one level.
7. All service detailings conforming to SP:34.
8. Safe bearing capacity of soil : 05 t/sqm.

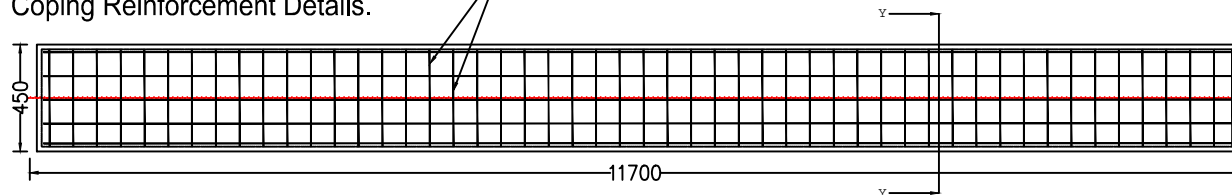


SINGLE UNDER REAMED PILE

Pile head block details.



Coping Reinforcement Details.



Column Reinforcement

C	Size	Main Rf.	Links
	250x250	4-12 ϕ tor	8 ϕ tor 200 c/c

Beam at Mid height

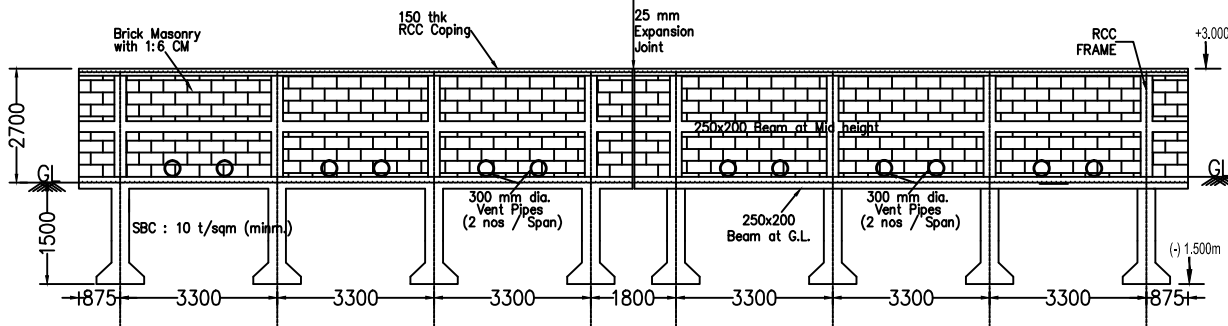
C	Size	Main Rf.	Stirrups
	250x200	6-12 ϕ tor	8 ϕ tor 200 c/c

Tie Beam at G.L.

C	Size	Main Rf.	Stirrups
	300x200	6-12 ϕ tor	8 ϕ tor 200 c/c

STRUCTURAL DESIGN & DETAILINGS OF COMPOUND WALL

DRG NO:-ODSSP/CIVIL/12



G.A. FOR TWO CONSEQUITIVE UNITS

Column Reinforcement

C	Size	Main Rf.	Links
	250x250	4-12 ϕ tor	8 ϕ tor 200 c/c

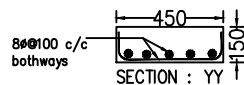
Beam at mid height

Size	Main Rf.	Stirrups
	250x200	6-12 ϕ tor 8 ϕ tor 200 c/c

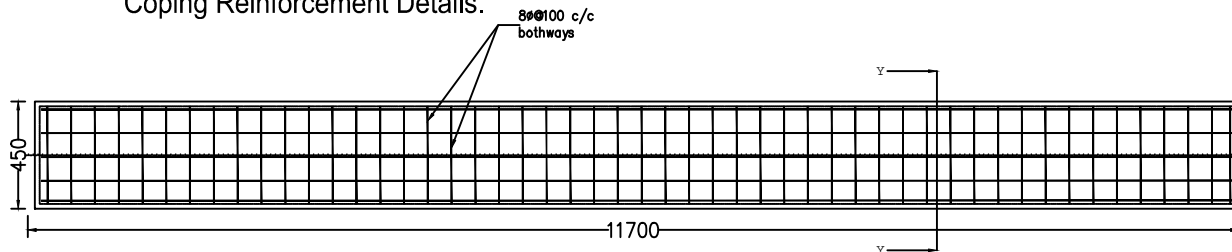
Tie Beam at G.L.

Size	Main Rf.	Stirrups
	250x200	6-12 ϕ tor 8 ϕ tor 200 c/c

FTG.	COL	CL	CB	PL	PB	PH	L	B	L1	B1	D	d	a	b
F1	C	250	250	300	300	1000	1050	1050	900	900	450	150	10 ϕ Tor @ 150 c/c	10 ϕ Tor @ 150 c/c



Coping Reinforcement Details.

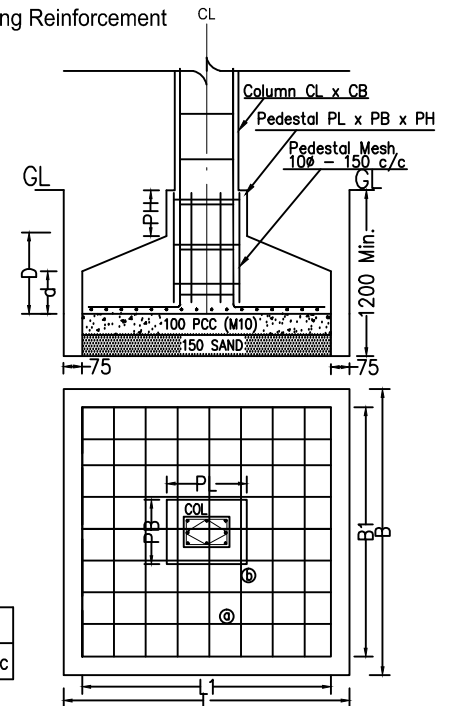


OPEN FOUNDATION

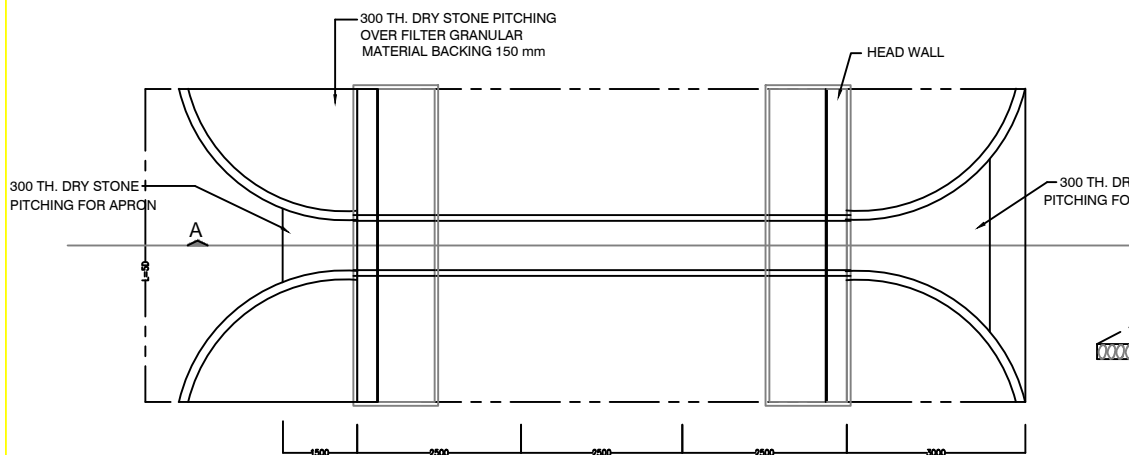
NOTES

1. All dimensions are in mm and m.
2. All levels are in m.
3. All grades of RCC are in M20.
4. All grades of Steel are in Fe-500.
5. All cover to column reinforcement 40mm and beam 25mm.
6. Lap length 55 ϕ , Not more than 50% bars are to be lapped at one level.
7. All service detailings conforming to SP:34.
8. Safe bearing capacity of soil : 10 t/sqm.

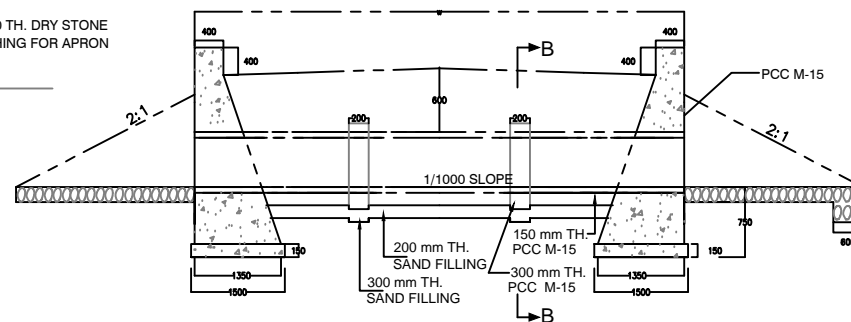
Footing Reinforcement



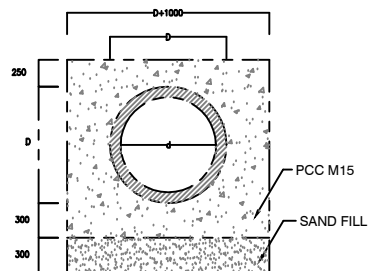
STRUCTURAL DESIGN &
DETAILINGS.
DRG NO:-ODSSP/CIVIL/13



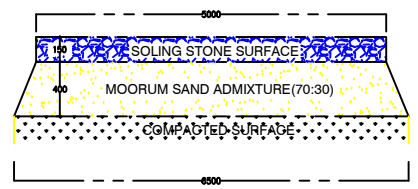
PLAN OF SINGLE ROW CULVERT



SECTION-AA
CULVERT SINGLE ROW & DOUBLE ROW



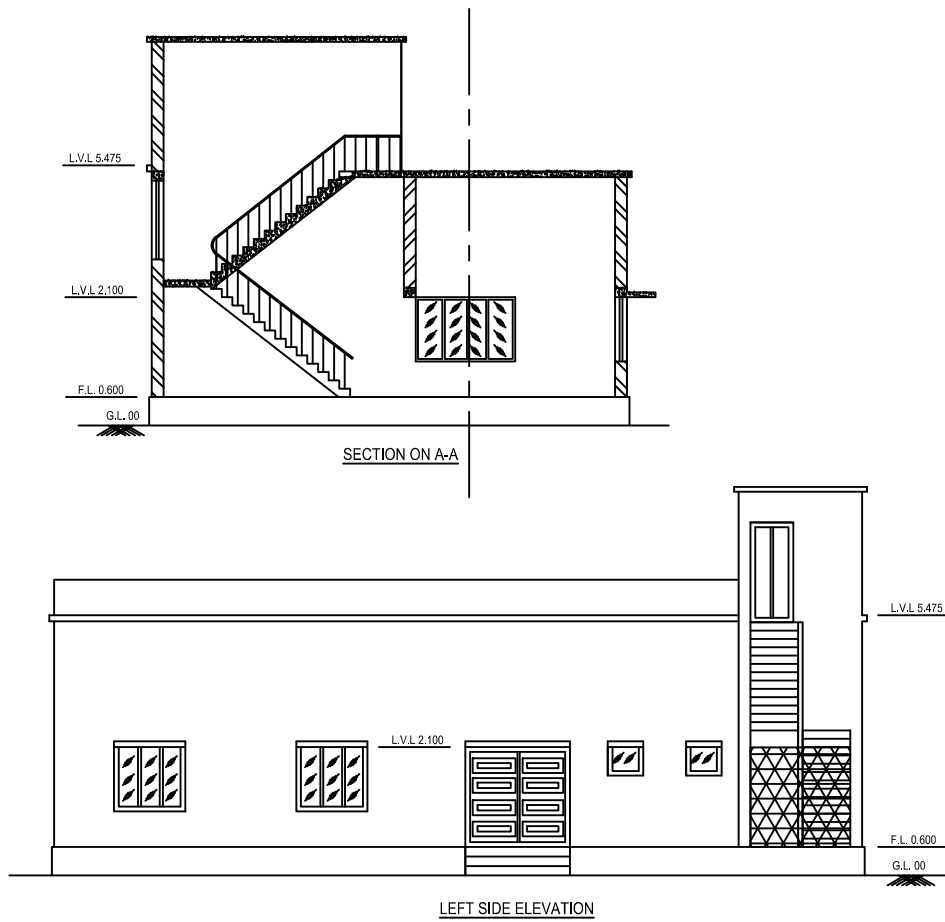
SECTION-BB
SINGLE ROW CULVERT



CROSS SECTION OF APPROACH ROAD

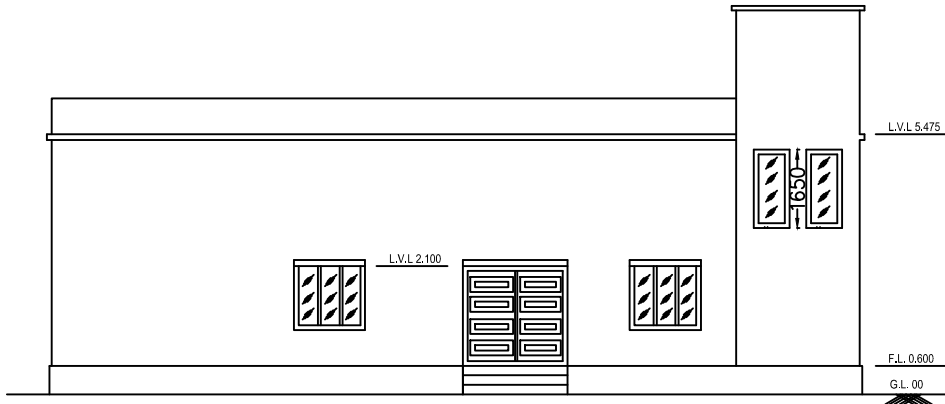
TYPICAL CROSS SECTION OF
APPROACH ROAD & H.P. CULVERT

DRG NO:-ODSSP/CIVIL/14

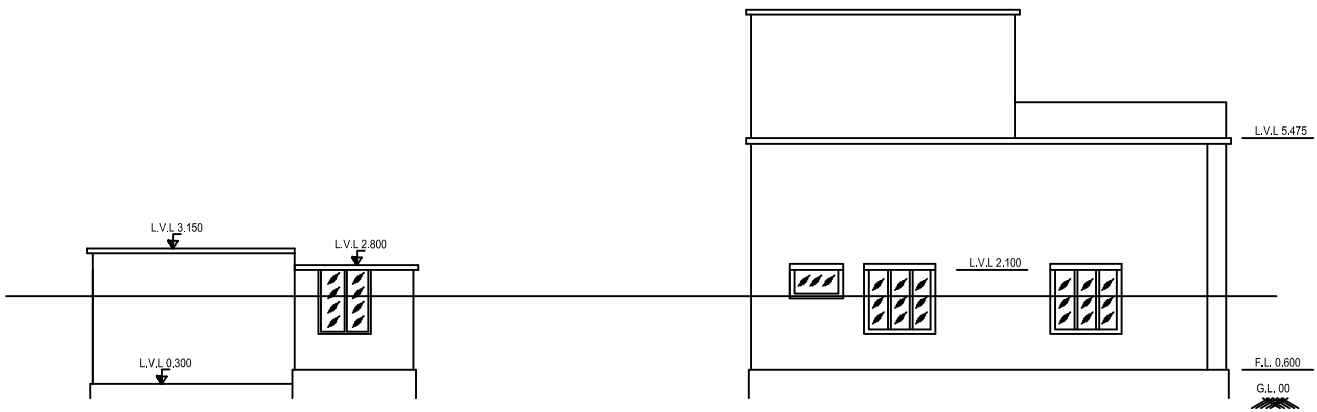


ELEVATION DRAWING.

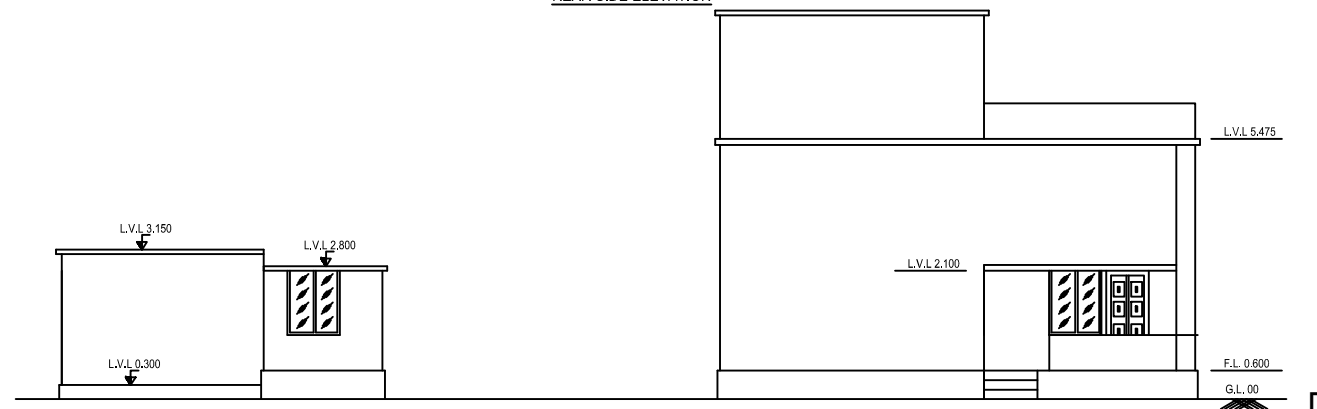
DRG NO:-ODSSP/CIVIL/15, SHEET - 1/2



RIGHT SIDE ELEVATION



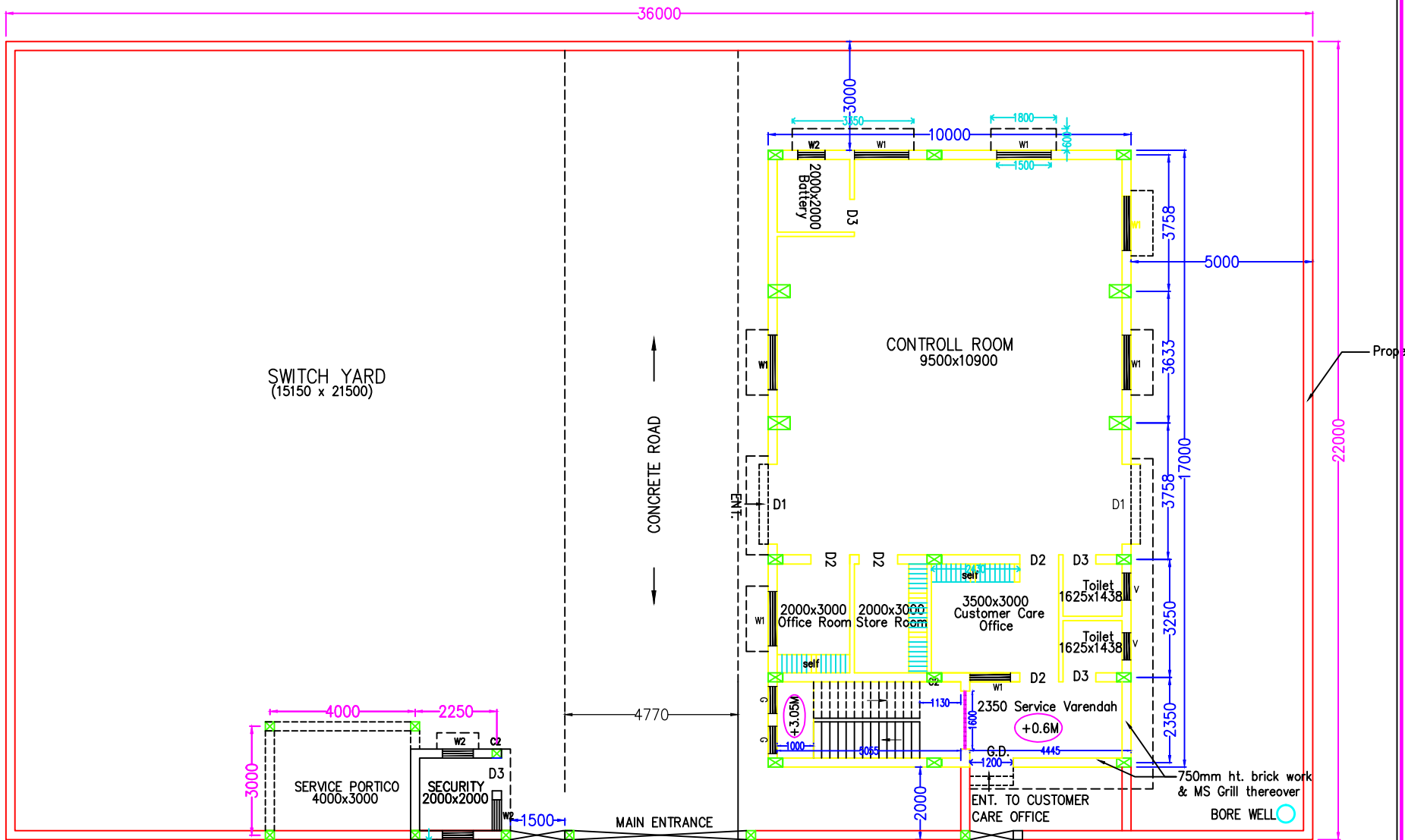
REAR SIDE ELEVATION



FRONT SIDE ELEVATION

ELEVATION DRAWING.

DRG NO:-ODSSP/CIVIL/15, SHEET - 2/2



Schedule of Doors and Windows.

Size	Specifications
D1 2200x2550	Four fold collapsible Iron door
D2 1070x2100	Wooden door
D3 900x2100	Wooden door
D3 900x2100	Fibre door
W 1500x1350	Glazed Sliding Window with net
W1 850x1050	Glazed Sliding Window with net
V 600x600	Iron railed with tinted glass
STAIR :	T-225 / R-175

Levels.

Ground	±0.000m
Service Portico Floor	(+)0.300m
Control Room floor	(+)0.600m
Office & Other room floor	(+)0.600m
Landing Level	(+)3.050m
Top of Service Portico	(+)3.150m
Top of Roof	(+)5.475m
Window sill level	(+)0.750m
Lintel bottom level	+3.150/+2.850m

P L A N

ARCHITECTURAL DRAWING.

DRG NO:-ODSSP/CIVIL/16,Sheet of 1/7

Column Reinforcement

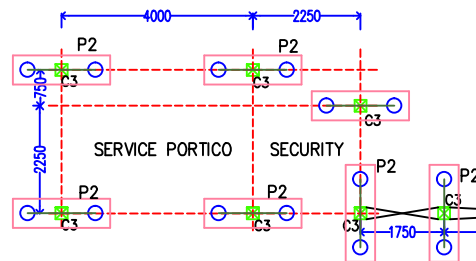
	Size	Main Rf.	Links.
C1	350x600	4-25+4-20 ϕ tor	8 ϕ tor 150 c/c
C2	250x250	4-16+4-12 ϕ tor	8 ϕ tor 200 c/c
C3	250x250	4-16 ϕ tor	8 ϕ tor 200 c/c

REINFORCEMENT IN PILE CAP

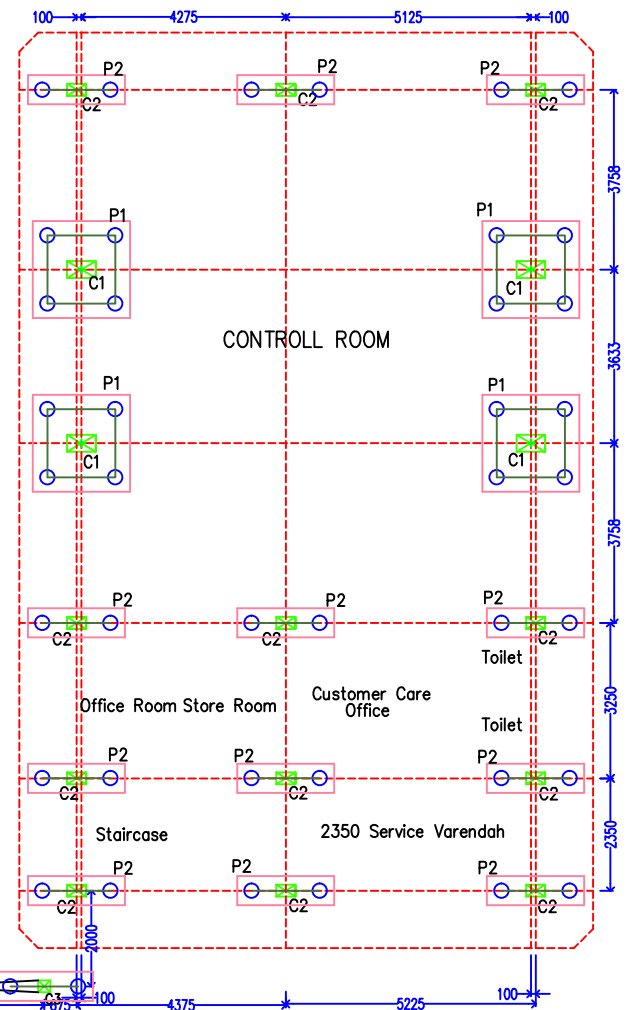
PILE CAP	SIZE		DEPTH (D)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SIDE REINFORCEMENT
	L	B		X-DIR(a)(Longdir.)	Y-DIR (b)	X-DIR (c)	Y-DIR (d)	
P1 (4 Pile Gr.)	2050mm	2050mm	600mm	20# 10nos.	20# 10nos.	16# 10nos.	16# 10nos.	10# 150 C/C IN ALL FACES
P2 (2 Pile Gr.)	2050mm	600mm	550mm	16# 6nos.	10# @150 C/C.	16# 5nos.	10# @150 C/C.	10# 150 C/C IN ALL FACES

GENERAL NOTES .

- All dimensions are in mm and m.
- All levels are in m.
- All grade of RCC are of M-20.
- All grade of steel are of Fe-500.
- Pile head will be 75mm inside pile cap.
- Clear cover to main reinforcement at bottom will be 75mm.
- Clear cover to main reinforcement at top and side will be 50mm.
- All cover to column reinforcement 40mm.
- Lap length 55 ϕ , Not more than 50% bars are to be lapped at one level.
- All service detailings should conform to SP:34.

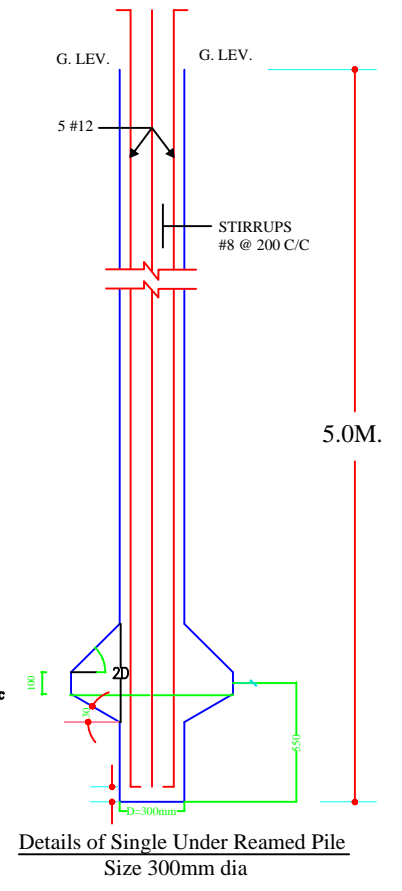
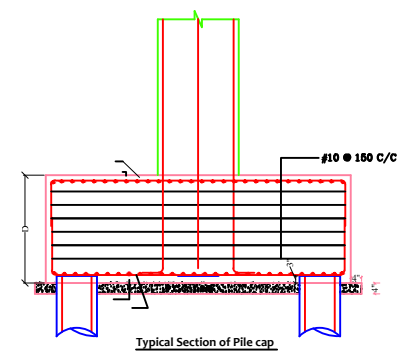
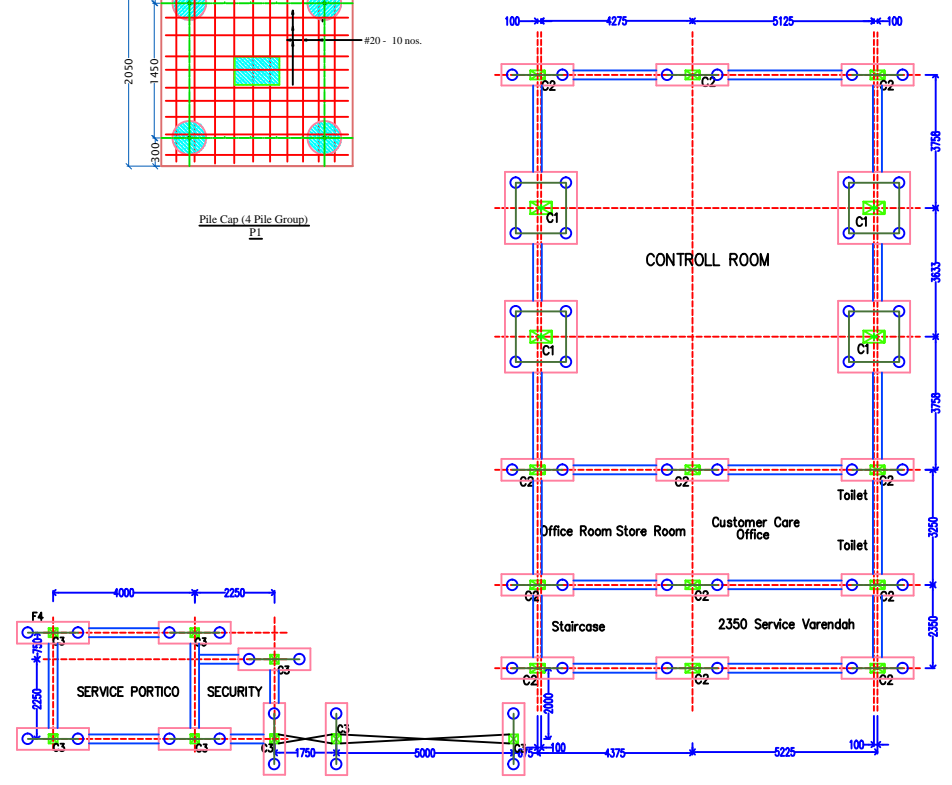
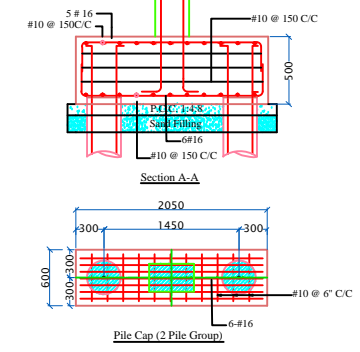
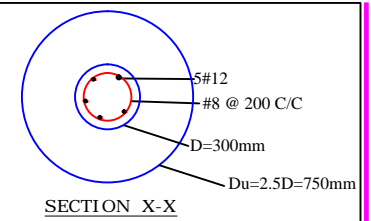
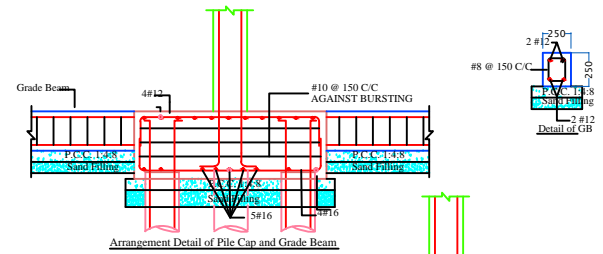
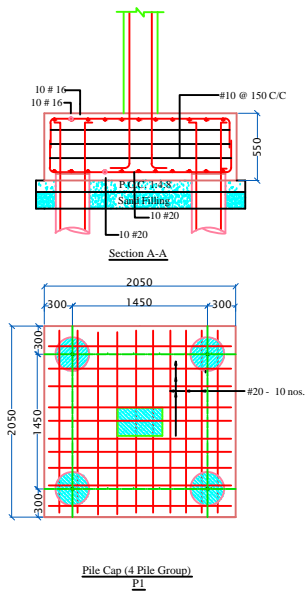


COLUMN & PILE CAP LAY OUT.



COLUMN & PILE LAYOUT DETAILS.

TYPICAL REINFORCEMENT ARRANGEMENT OF PILE CAPS

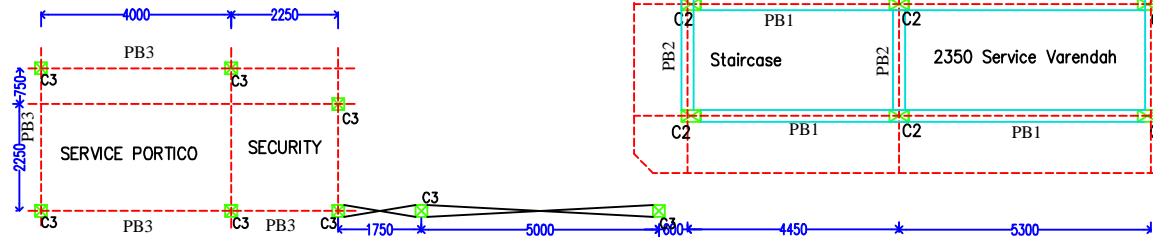
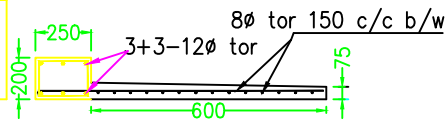


PILE, PILE CAP & GRADE BEAM REINFORCEMENT DETAILS.

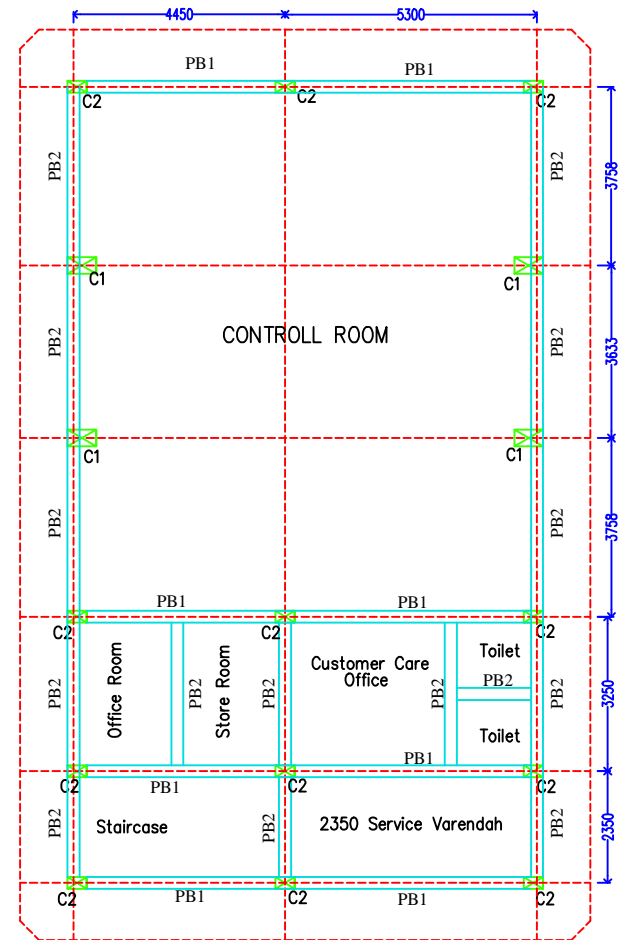
PLINTH BEAM DETAIL		
BEAM MARKED	Beam Size	Main Reinforcement
PB1	250x450	Top - 2-16+2-16 Bottom- 3-12 Stirrups - 8T-2L-150c/c
PB2	250x400	Top - 2-16+2-12 Bottom- 3-12 Stirrups - 8T-2L-150c/c
PB3	250x250	Top - 3-12 Bottom- 3-12 Stirrups - 8T-2L-150c/c

CUT LINTEL Reinforcement over door D1.

	Size(BXD)	Main Rf.	Stirrups	Lintel Bottom
L	250x200	3-12+3-12 \emptyset	tor 8 \emptyset tor 150 c/c	+ 3.150 m Refer Architectural Details



PLINTH BEAM LAY OUT.

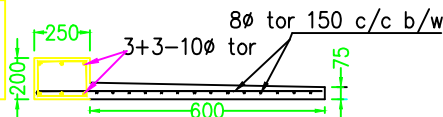


PLINTH BEAM & LINTEL
REINFORCEMENT DETAILS.

DRG NO:-ODSSP/CIVIL/16,Sheet of 4/6

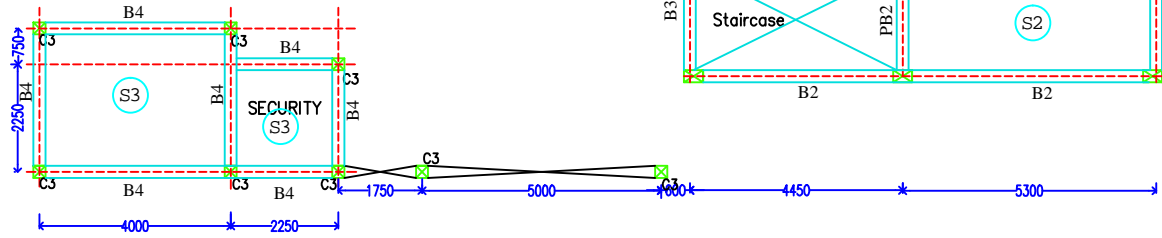
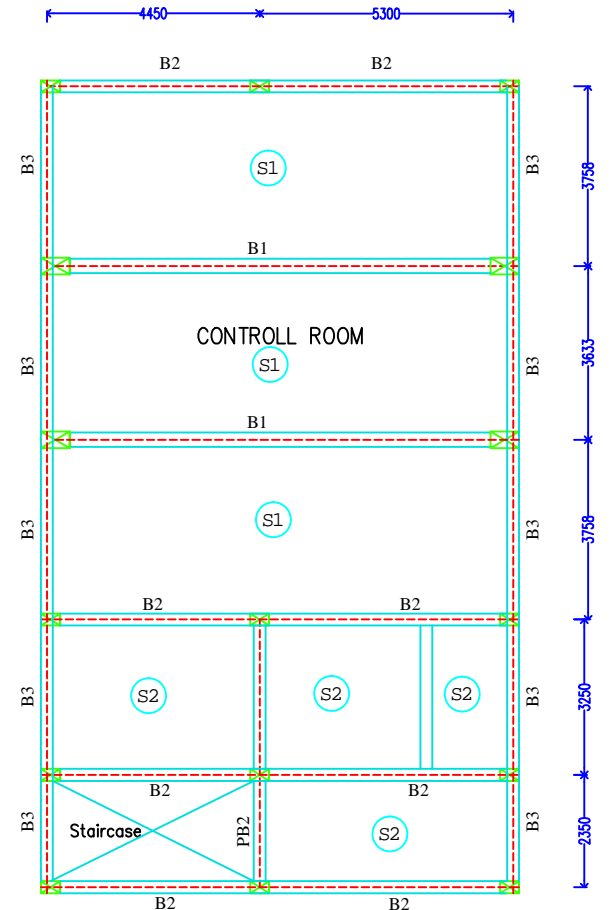
Continuous LINTEL Reinforcement over rest of the walls.

	Size(BXD)	Main Rf.	Stirrups	Lintel Bottom
L	250x150	3-10+3-10 \emptyset	tor 8 \emptyset tor 200 c/c	+ 2.850 m Refer Architectural Details



ROOF BEAM REINFORCEMENT DETAILS.

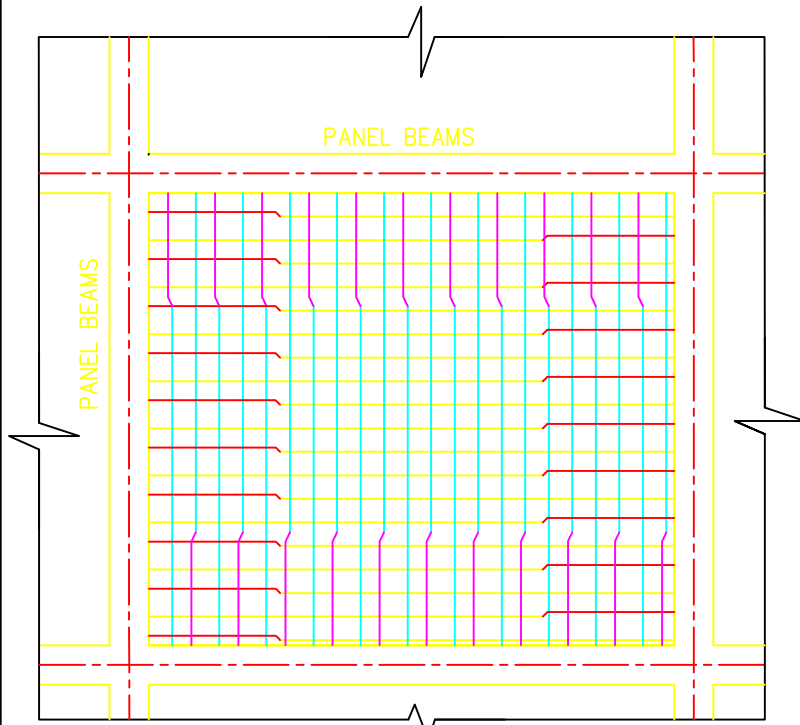
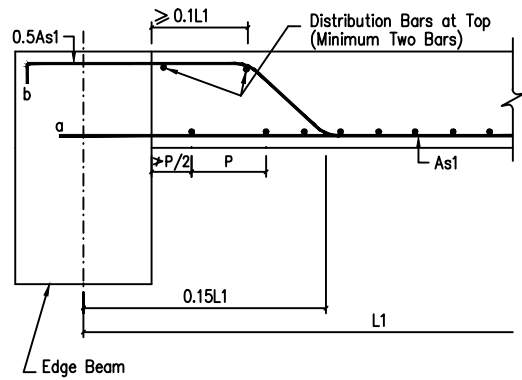
BEAM TOP LEVEL	BEAM MKD.	END SPAN	MID SPAN
+5.475m	B1 300X725		
	B2 250X450		
	B3 250X400		
+4.000m	B4 250X300		



ROOF BEAM LAY OUT.

ROOF BEAM REINFORCEMENT DETAILS.

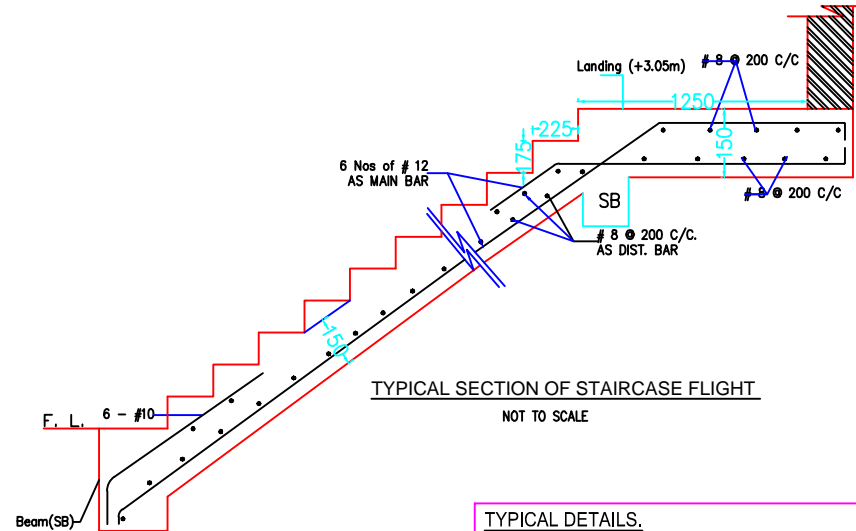
TYPICAL ROOF REINFORCEMENT DETAILS



Slab Reinforcement.

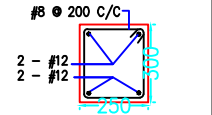
Panel	Short Span	Long Span	Roof Slab Thk.
S1	10 ϕ tor @ 150 C/C	8 ϕ tor 200 c/c	125
S2	8 ϕ tor @ 150 C/C	8 ϕ tor 200 c/c	125
S3	8 ϕ tor @ 150 C/C	8 ϕ tor 200 c/c	100

SHEET - 5/5
TYPE-A, NO FLOODING
SBC : 15t/sq.m. (Minm.)

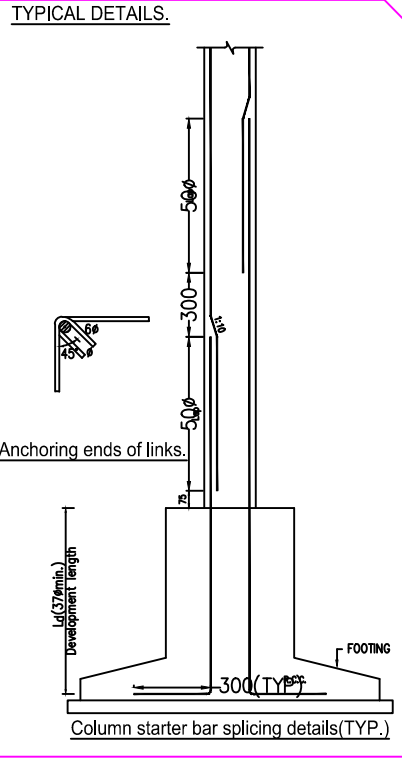


TYPICAL SECTION OF STAIRCASE FLIGHT

NOT TO SCALE

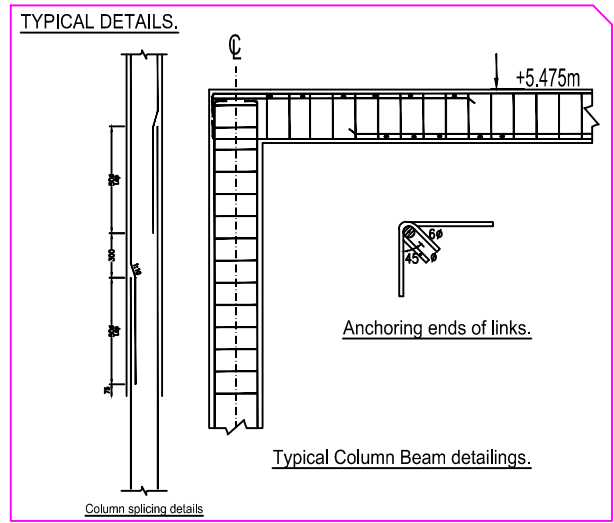


TYPICAL SECTION OF STAIR BEAM(SB)



Anchoring ends of links.

Column starter bar splicing details(TYP.)

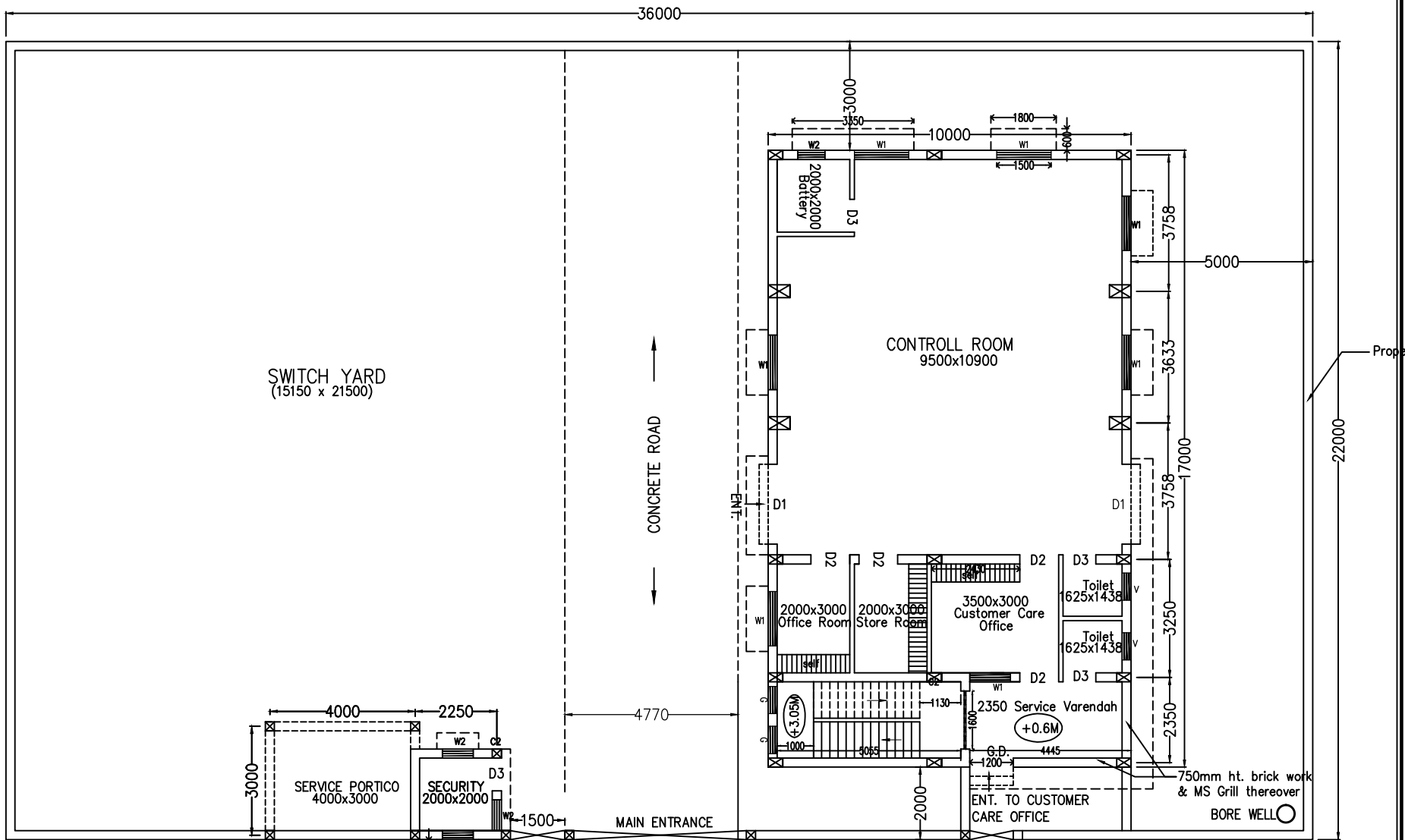


TYPICAL DETAILS.

Column splicing details

Typical Column Beam detailings.

ROOF BEAM REINFORCEMENT DETAILS.



Schedule of Doors and Windows.

Size	Specifications
D1 2200x2550	Four fold collapsible Iron door
D2 1070x2100	Wooden door
D3 900x2100	Wooden door
D3 900x2100	Fibre door
W 1500x1350	Glazed Sliding Window with net
W1 850x1050	Glazed Sliding Window with net
V 600x600	Iron railed with tinted glass
STAIR :	T-225 / R-175

Levels.

Ground	±0.000m
Service Portico Floor	(+)0.300m
Control Room floor	(+)0.600m
Office & Other room floor	(+)0.600m
Landing Level	(+)3.050m
Top of Service Portico	(+)3.150m
Top of Roof	(+)5.475m
Window sill level	(+)0.750m
Lintel bottom level	+3.150/+2.850m

P L A N

ARCHITECTURAL DRAWING.

DRG NO:-ODSSP/CIVIL/17, SHEET - 1/5

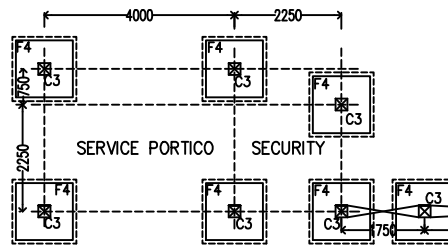
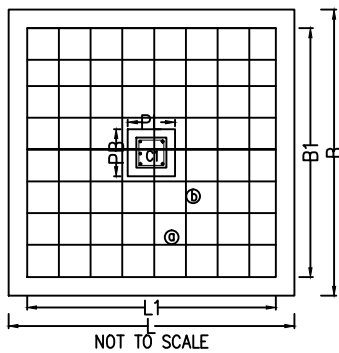
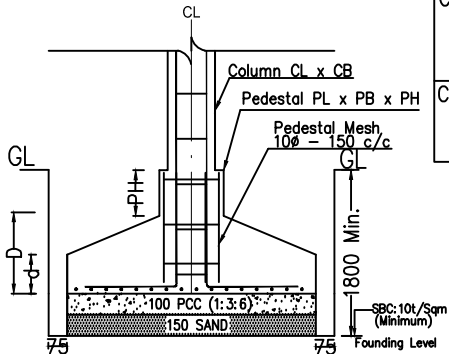
GENERAL NOTES.

1. All dimensions are in mm and m.
2. All levels are in m.
3. All grades of RCC are of M20.
4. All grades of Steel are of Fe500.
5. Roof slab thickness 125mm/100mm (Refer drg.)
6. All cover to column reinforcement 40mm, beam 25mm and slab 20mm.
7. Lap length 55 ϕ , Not more than 50% bars are to be lapped at one level.
8. All service detailings conforming to SP:34.
9. Minm. safe bearing capacity of soil at 1.8m below GL is 10 t/sqm.

Column Reinforcement

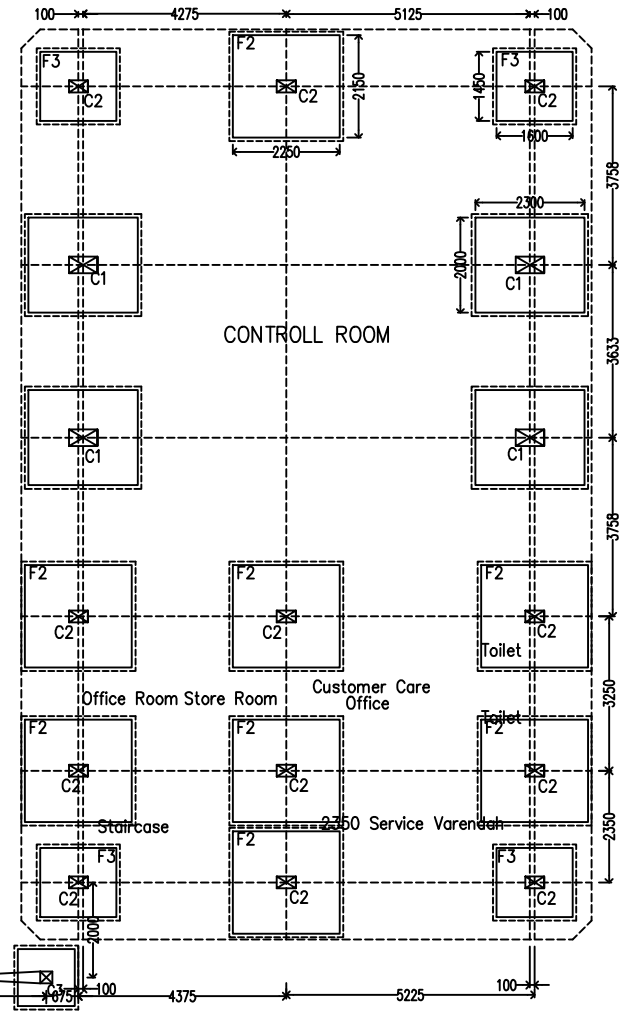
Size	Main Rf.	Links.
C1	4-25+4-20 ϕ tor	8 ϕ tor 150 c/c
C2	4-16+4-12 ϕ tor	8 ϕ tor 200 c/c
C3	4-16 ϕ tor	8 ϕ tor 200 c/c

Footing Reinforcement



COLUMN & FOUNDATION LAY OUT.

FOOTING	COL	CL	CB	PL	PB	PH	L	B	L1	B1	D	d	a	b
F1	C1	350	600	550	800	350	2150	2450	2000	2300	700	350	12 ϕ Tor ϕ 150 c/c	12 ϕ Tor ϕ 150 c/c
F2	C2	250	400	450	600	350	2250	2400	2100	2250	700	350	12 ϕ Tor ϕ 150 c/c	12 ϕ Tor ϕ 150 c/c
F3	C3	250	400	450	600	350	1750	1900	1600	1750	500	250	12 ϕ Tor ϕ 200 c/c	12 ϕ Tor ϕ 200 c/c
F4	C4	250	250	450	450	300	1350	1350	1200	1200	400	200	12 ϕ Tor ϕ 200 c/c	12 ϕ Tor ϕ 200 c/c



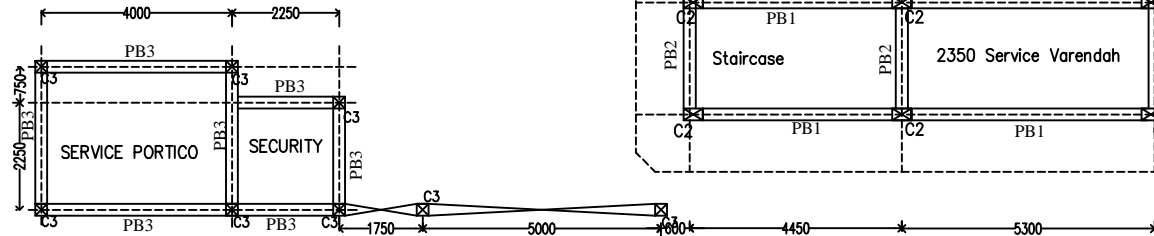
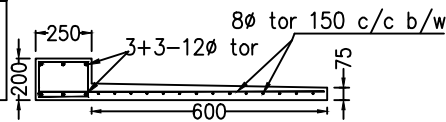
COLUMN & FOUNDATION

REINFORCEMENT DETAILS.

PLINTH BEAM DETAIL		
BEAM MARKED	Beam Size	Main Reinforcement
PB1	250x450	Top - 2-16+2-16 Bottom- 3-12 Stirrups - 8T-2L-150c/c
PB2	250x400	Top - 2-16+2-12 Bottom- 3-12 Stirrups - 8T-2L-150c/c
PB3	250x250	Top - 3-12 Bottom- 3-12 Stirrups - 8T-2L-150c/c

CUT LINTEL Reinforcement over door D1.

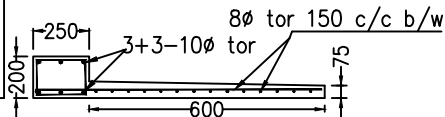
	Size(BXD)	Main Rf.	Stirrups	Lintel Bottom
L	250x200	3-12+3-12 ϕ tor	8 ϕ tor 150 c/c	+ 3.150 m Refer Architectural Details



PLINTH BEAM LAY OUT.

Continuous LINTEL Reinforcement over rest of the walls.

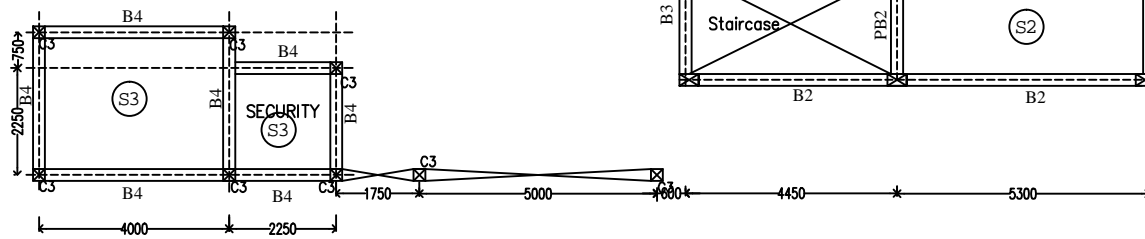
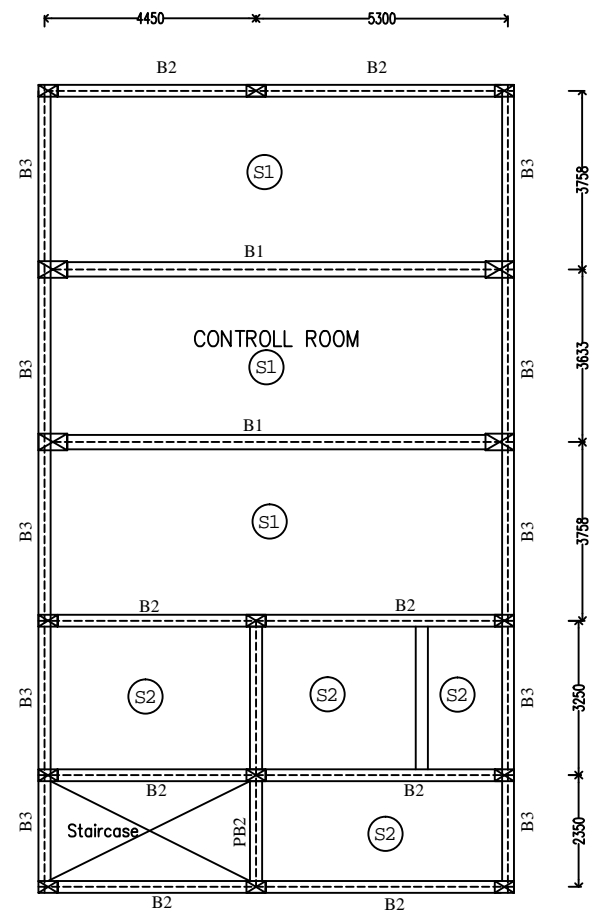
	Size(BXD)	Main Rf.	Stirrups	Lintel Bottom
L	250x150	3-10+3-10 ϕ tor	8 ϕ tor 200 c/c	+ 2.850 m Refer Architectural Details



PLINTH BEAM & LINTEL REINFORCEMENT DETAILS.

ROOF BEAM REINFORCEMENT DETAILS.

BEAM TOP LEVEL	BEAM MKD.	END SPAN	MID SPAN
+5.475m	B1 300X725		
	B2 250X450		
	B3 250X400		
+4.000m	B4 250X300		

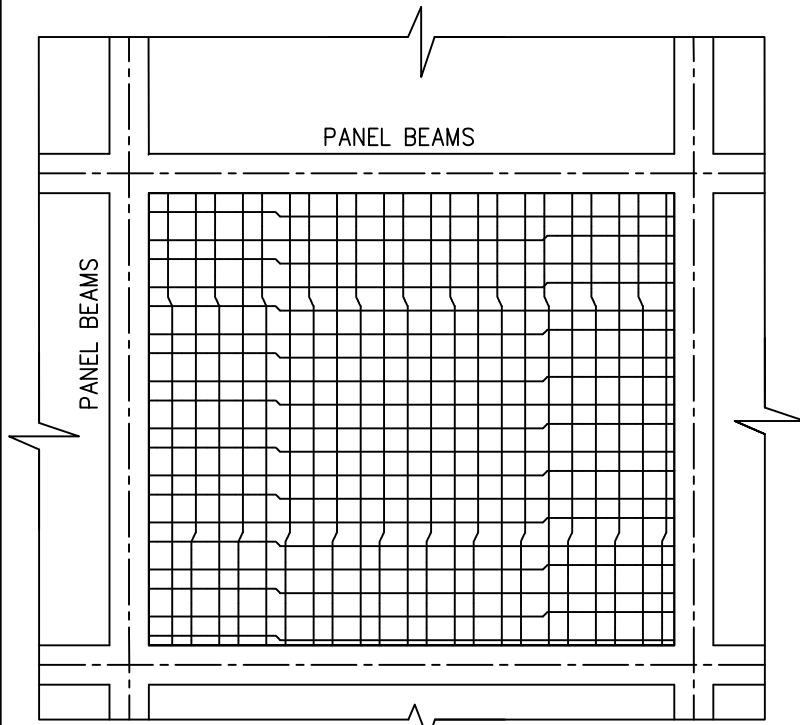
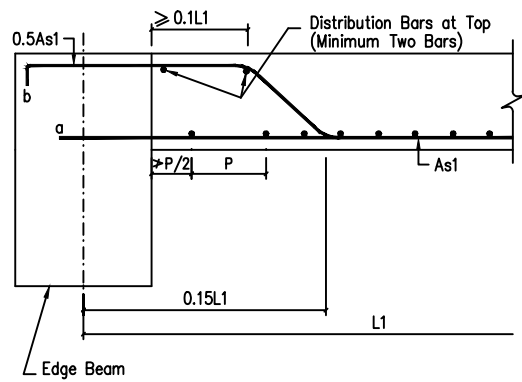


ROOF BEAM LAY OUT.

ROOF BEAM REINFORCEMENT DETAILS.

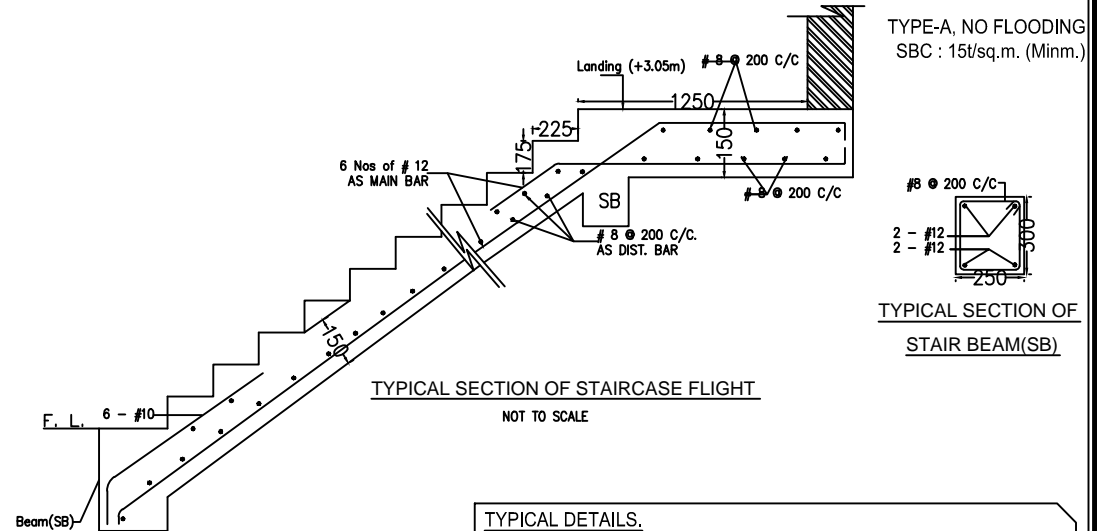
DRG NO:-ODSSP/CIVIL/17, SHEET - 4/5

TYPICAL ROOF REINFORCEMENT DETAILS

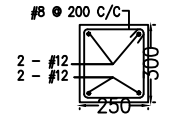


Slab Reinforcement.

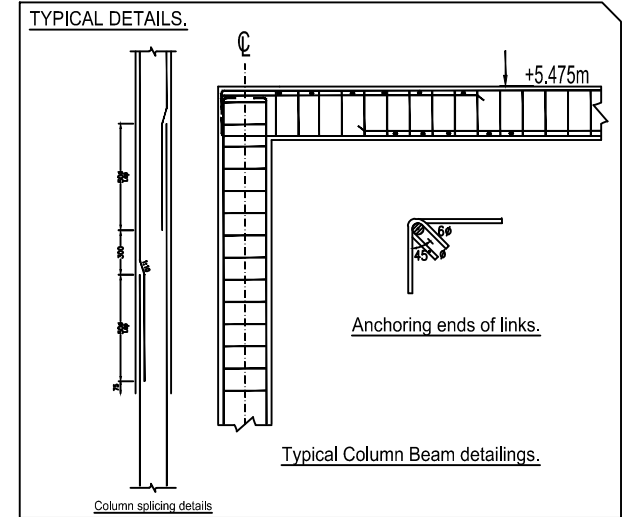
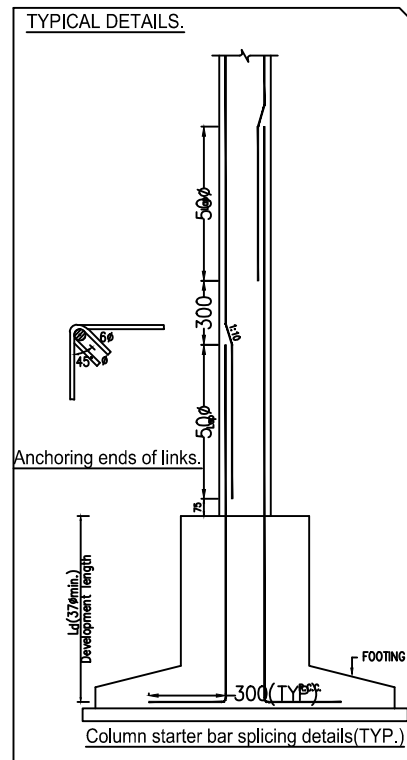
Panel	Short Span	Long Span	Roof Slab Thk.
S1	10 ϕ tor @ 150 C/C	8 ϕ tor 200 c/c	125
S2	8 ϕ tor @ 150 C/C	8 ϕ tor 200 c/c	125
S3	8 ϕ tor @ 150 C/C	8 ϕ tor 200 c/c	100



TYPE-A, NO FLOODING
SBC : 15t/sq.m. (Minm.)



TYPICAL SECTION OF
STAIR BEAM(SB)



STAIRCASE AND OTHER MISC. DETAILS.

DRG NO:-ODSSP/CIVIL/17, SHEET - 5/5