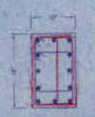
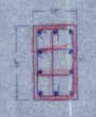
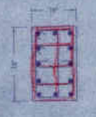
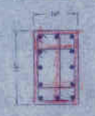
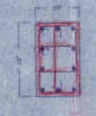
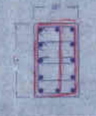
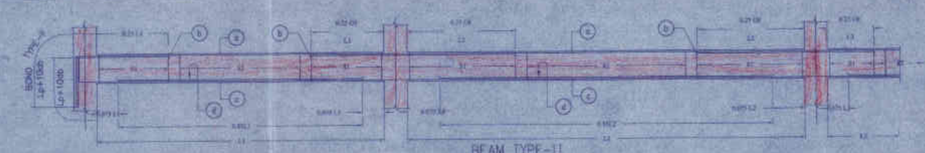
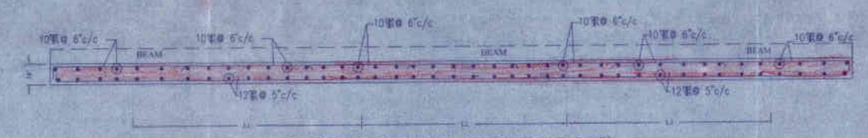
SCHEDULE OF COLUMNS

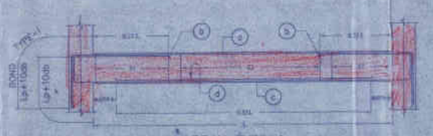
2ND FLOOR TO ROOF		12-12ϕ	8ϕ@ 4"c/c (CONFINEMENT ZONE) (3Nos/SET) 8ϕ@ 6"c/c (REST PORTION) (3Nos/SET)		10-16 ϕ	8ϕ@ 4"c/c (CONFINEMENT ZONE) (3Nos/SET) 8ϕ@ 6"c/c (REST PORTION) (3Nos/SET)		12-16ϕ	8ϕ@ 4"c/c (CONFINEMENT ZONE) (4Nos/SET) 8ϕ@ 6"c/c (REST PORTION) (4Nos/SET)
FOUNDATION TO 2ND FLOOR		12-16ϕ	8ϕ@ 4"c/c (CONFINEMENT ZONE) (3Nos/SET) 8ϕ@ 6"c/c (REST PORTION) (3Nos/SET)		10-20ϕ	8ϕ@ 4"c/c (CONFINEMENT ZONE) (3Nos/SET) 8ϕ@ 6"c/c (REST PORTION) (3Nos/SET)		12-20ϕ	8ϕ@ 4"c/c (CONFINEMENT ZONE) (4Nos/SET) 8ϕ@ 6"c/c (REST PORTION) (4Nos/SET)
LEVEL	REINFORCEMENT	LINK		REINFORCEMENT	LINK		REINFORCEMENT	LINK	
COL MARK	C1			C2			C3		

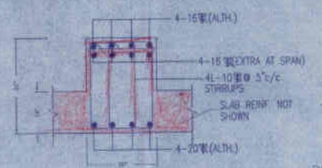
SCHEDULE OF FLOOR BEAMS

BEAM MKD.	BEAM TYPE	BEAM SIZE WIDTH	BEAM SIZE DEPTH	REINFORCEMENTS a	b	c	d	STIRRUPS S1	S2	SIDE FACE/FACE	REMARKS
L1	I	10"	18"	3-20ϕ	2-20ϕ	4-16ϕ	-	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
L2	II	10"	16"	3-16ϕ	2-16ϕ	3-16ϕ	-	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
L3	I	10"	16"	2-20ϕ	3-16ϕ	3-16ϕ	2-16ϕ	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
T1	II	10"	16"	3-20ϕ	2-20ϕ	3-20ϕ	2-16ϕ	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
T2	II	10"	16"	2-16ϕ	3-16ϕ	3-16ϕ	-	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
T3	II	10"	16"	3-20ϕ	2-20ϕ	3-20ϕ	2-16ϕ	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
T4	II	10"	16"	2-20ϕ	2-20ϕ	3-16ϕ	2-16ϕ	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
T5	II	10"	14"	2-20ϕ	2-20ϕ	4-16ϕ	-	2L-8ϕ@ 6"c/c	2L-8ϕ@ 6"c/c	-	-
T6	II	10"	12"	2-16ϕ	-	2-16ϕ	-	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
T7	III	10"	12"	2-20ϕ	2-16ϕ	3-16ϕ	-	3L-8ϕ@ 4"c/c		-	-
B-1	II	10"	10"	3-16ϕ	-	3-16ϕ	-	2L-8ϕ@ 4"c/c	2L-8ϕ@ 6"c/c	-	-
CB-1	III	10"	16"	6-20ϕ	-	5-16ϕ	-	2L-8ϕ@ 4"c/c	-	-	-

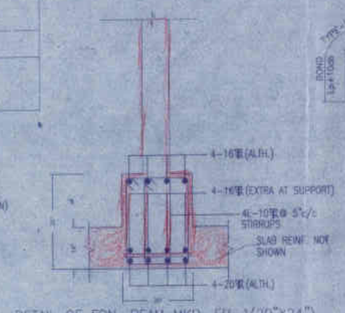




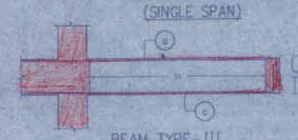




DETAIL OF FDN. BEAM MKD. FB-1(20"X24")
(AT SPAN)
SCALE-N.T.S

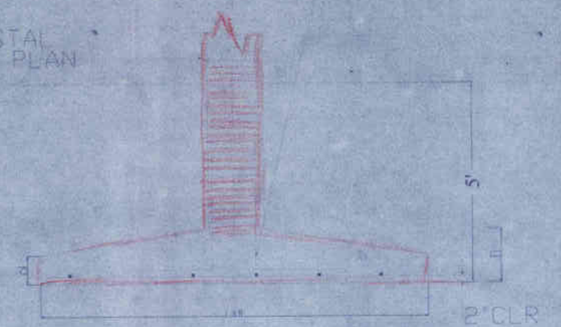


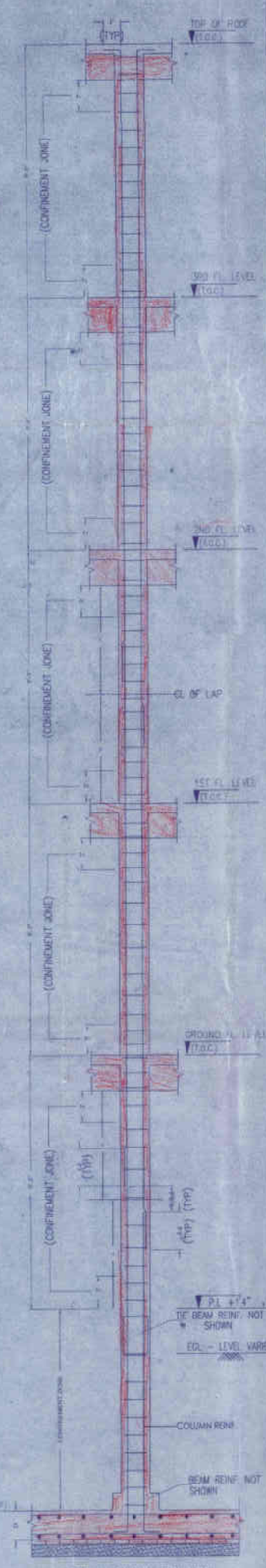
DETAIL OF FDN. BEAM MKD. FB-1(20"X24")
(AT COLUMN SUPPORT)
SCALE-N.T.S

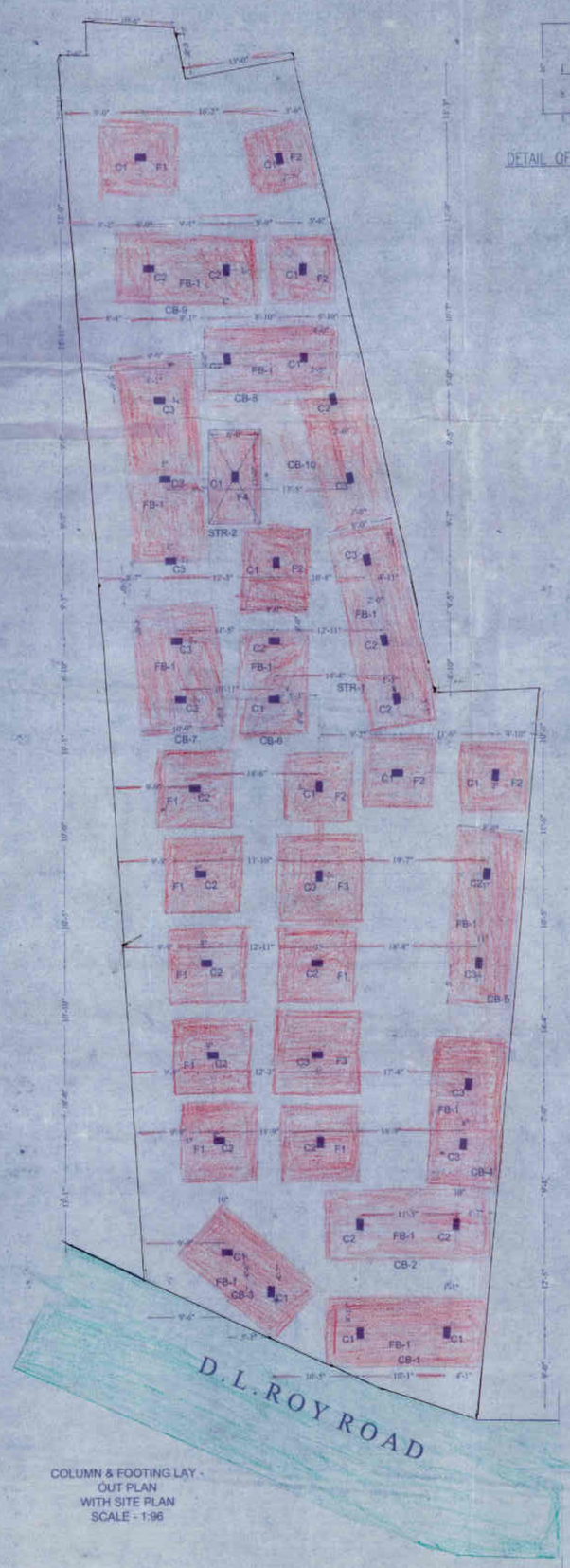


BEAM TYPE-III
(CANTILEVER BEAM)

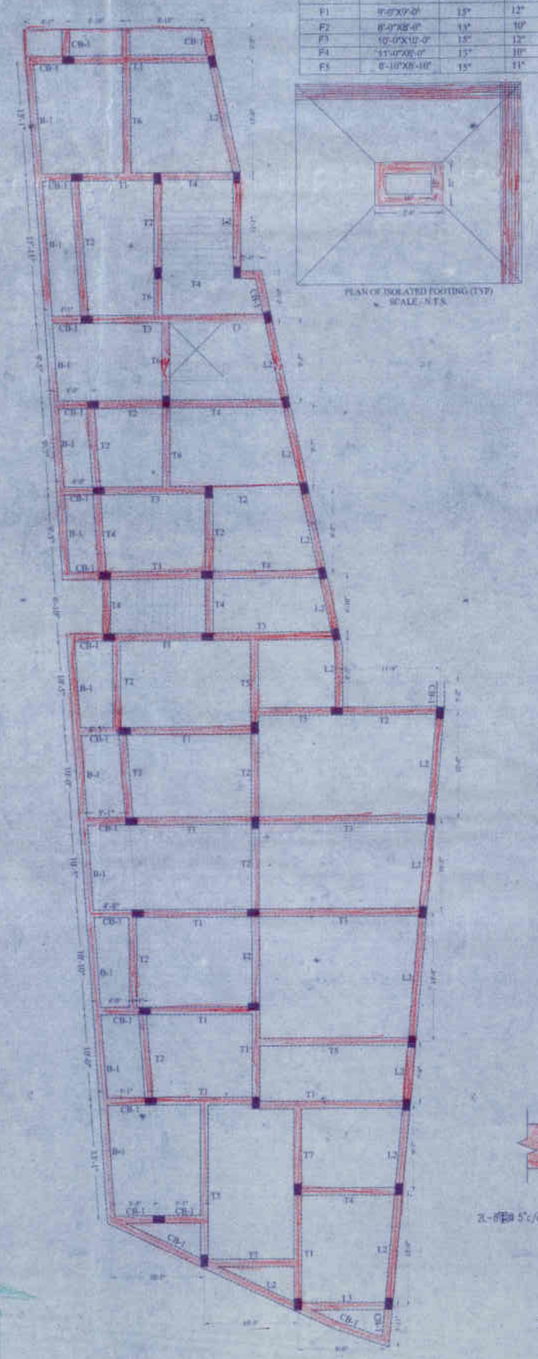
FOOTING MKD	L X B	FOOTING DEPTH D	FOOTING DEPTH d	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
F1	9'-0"X9'-0"	15"	12"	12 Ø TOR @ 5" C/C BOTH DIRE.	10Ø TOR @ 5" C/C BOTH DIRE.
F2	8'-0"X8'-0"	13"	10"	12 Ø TOR @ 5" C/C BOTH DIRE.	10Ø TOR @ 5" C/C BOTH DIRE.
F3	10'-0"X10'-0"	15"	12"	12 Ø TOR @ 5" C/C BOTH DIRE.	10Ø TOR @ 5" C/C BOTH DIRE.
F4	11'-0"X9'-0"	13"	10"	12 Ø TOR @ 5" C/C BOTH DIRE.	10Ø TOR @ 5" C/C BOTH DIRE.
F5	8'-10"X8'-10"	15"	11"	12 Ø TOR @ 5" C/C BOTH DIRE.	10Ø TOR @ 5" C/C BOTH DIRE.



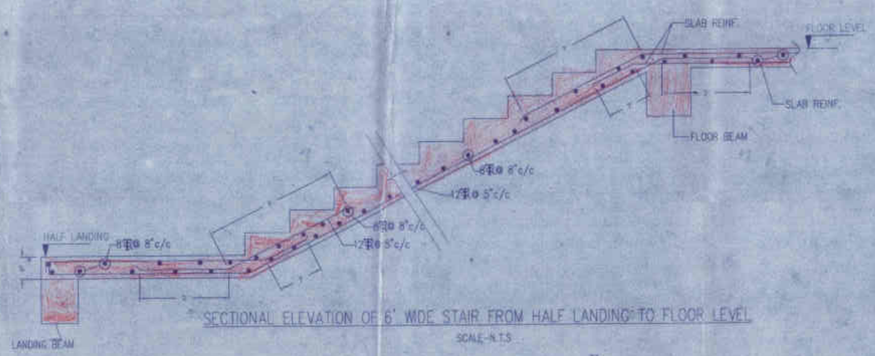




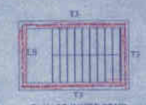
COLUMN & FOOTING LAY - OUT PLAN WITH SITE PLAN
SCALE - 1:96

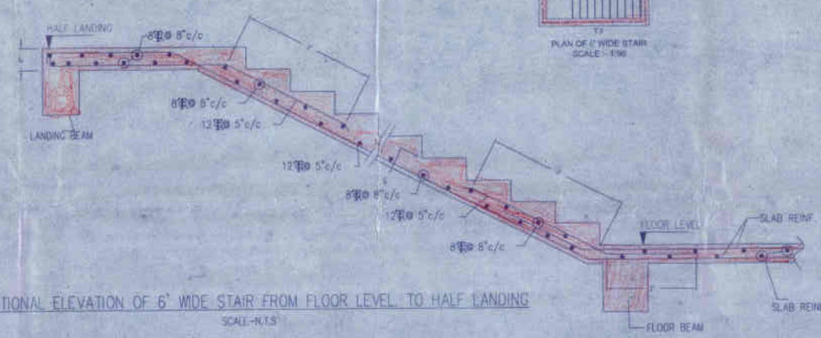


TYPICAL BEAM LAY - OUT PLAN
SCALE - 1:96

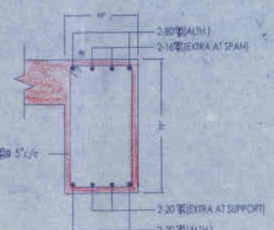


SECTIONAL ELEVATION OF 6' WIDE STAIR FROM HALF LANDING TO FLOOR LEVEL
SCALE-N.T.S

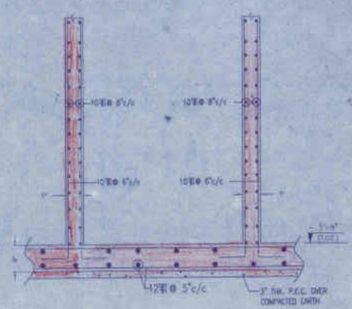




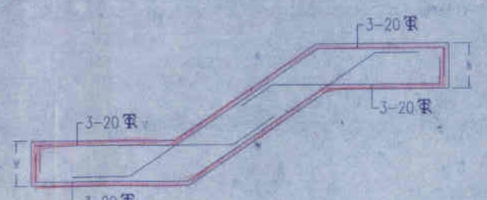
SECTIONAL ELEVATION OF 6' WIDE STAIR FROM FLOOR LEVEL TO HALF LANDING
SCALE-N.T.S



RC DETAIL OF TIE BEAM
SCALE-1:10



SCALE-N.T.S.
TYPICAL RCC DETAIL OF LIFT WALL & FDN.



RC DETAIL OF BEAM MKD. LS-1(10"X16")
SCALE-N.T.S

NOTES:-

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWING, TERMS AND CONDITIONS, SPECIFICATIONS AND SCHEDULE OF ITEMS.
2. ALL DIMENSIONS ARE IN F.P.S & LEVEL ARE IN FOOT UNLESS NOTED OTHERWISE.
3. ALL REINFORCING STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS MARKED ϕ CONFORMING TO IS: 1786 (Fe-500)
4. GRADE OF CONCRETE SHALL BE M20.
5. ALL HOOKS, BENDS AND LAPS IN REINFORCEMENT SHALL CONFORM TO IS:2502 (LATEST REVISION) UNLESS NOTED OTHERWISE.
6. PLAIN CEMENT CONCRETE (PCC) UNDER FOUNDATION SHALL BE OF GRADE M10 UNLESS NOTED OTHERWISE.
7. REINFORCEMENT SHALL SUITABLY BE ADJUSTED AT SITE IF REQUIRED TO MAKE CLEAR SPACE FOR POCKETS, ANCHOR BOLTS ETC.
8. MINIMUM LAP LENGTH SHALL BE 50XDIA OF BAR UNLESS NOTED OTHERWISE. LAPS SHALL BE STAGGERED AS FAR AS POSSIBLE. MINIMUM DISTANCE BETWEEN TWO STAGGERED LAP SHALL BE 0.3X50XDIA OF BAR. NOT MORE THAN 50% OF THE BAR CAN BE LAPPED AT A SINGLE LOCATION. STIRRUPS SPACING SHALL BE 6"c/c AT A LOCATION WHERE LONGITUDINAL BARS ARE LAPPED.
9. SOIL USED FOR BACKFILLING TO BE FREE FROM BLACK COTTON SOIL, ROOTS, VEGETATION ETC.
10. FDN. TO REST ON VIRGIN SOIL. IF EXCESS EXCAVATION IS OBSERVED/ ENCOUNTERED AT SITE, THE SAME TO BE FILLED UP BY PCC TO THE DESIRED LEVEL.
11. THE FOUNDATION HAVE BEEN DESIGNED CONSIDERING 'NASBC' AS PER GEOTECHNICAL INVESTIGATION REPORT.
12. WHERE A SECONDARY OR TERTIARY BEAM IS RESTING ON ANOTHER BEAM, EXTRA 2Nos SETS OF STP. OF 12 DIA. BAR TO BE PROVIDED ON EACH SIDE.
13. NOMINAL COVER TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS STATED OTHERWISE :-

	SUBSTRUCTURE WORKS	BOTTOM (mm)	SIDES (mm)
i)	COLUMNS, TIE BEAM	40	40
ii)	FOUNDATION	50	50
	SUPERSTRUCTURE WORKS		
i)	COLUMNS	40	40
ii)	BEAMS	30	30
iii)	SLABS (FLOOR)	20	20
iv)	LINTEL, CHAJJA, BANDS etc.	20	20

14. THIS DRAWING SHALL BE READ ALONG WITH RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
15. WHEREEVER BRICK WALL ON FLOOR SLAB IS NOT ABOVE BEAM, EXTRA 2 NOS OF 12T BARS SHALL BE PROVIDED IN SLAB BELOW WALL.

SPECIAL NOTE

THIS DRAWING TO BE MATCHED WITH RELEVANT ARCH. DRAWING.

PROJECT NAME -

STRUCTURAL PLAN (G+4) STORIED RESIDENTIAL CUM COMMERCIAL BUILDING (FLAT) of
1. SUSHANTA DAS
AT D.L. ROY ROAD,UNDER KRISHNANAGAR MUNICIPALITY,P.S KOTWALY,KRISHNANAGAR, DIST -NADIA.

PROJECT ADDRESS -

MOUZA - KRISHNAGAR ,
PLOT NO: R.S-2326,2329, L.R-3840,3841 ,
KHATIAN NO- R.S-4536,4535, L.R.-39066,3044,26426
WARD NO - 15, HOLDING NO -45
AT D.L. ROY ROAD,UNDER KRISHNANAGAR MUNICIPALITY
P.S - KOTWALI, DIST -NADIA,
LAND OF AREA (13.33DEC).

Owner's name -
1.SUSHANTA DAS , S/O LATE GOURANGA CHANDRA DAS
Sushanta Das

I CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN TIME THAT THE SITE CONDITION INCLUDING THE WIDTH OF THE ABUTING ROAD CONFORM WITH THE PLAN AND IT IS BUILDABLE SITE AND NOT TANK OR FILLED UP TANK.
L.B.S SIGNATURE -
Prasanta Ghosh, L.C.E.
Anadinagar, Krishnagar
L.B.S. of Kgr. Municipality
Regn. No.-16/2001-2002/K.M.

THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATON & SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BLDG. CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.
STRUCTURAL ENGINEER'S signature -
Atrik Biswas
Atrik Biswas
Civil Engineer, B. Tech
Krishnagar Nadia.
W.B.U.T. Regn. No.
21590120024 of 2012-13

TITLE:
Proposed Structural drawing for municipality sanction (krishnagar municipality) of PROPOSED COMMERCIAL BUILDING AT KRISHNAGAR

SCALE AS SHOWN
SHEET SIZE 46.8"X33.1"

RELEASED FOR
PRELIMINARY | TENDER | INFORMATION | MUNICIPAL | CONSTRUCTION