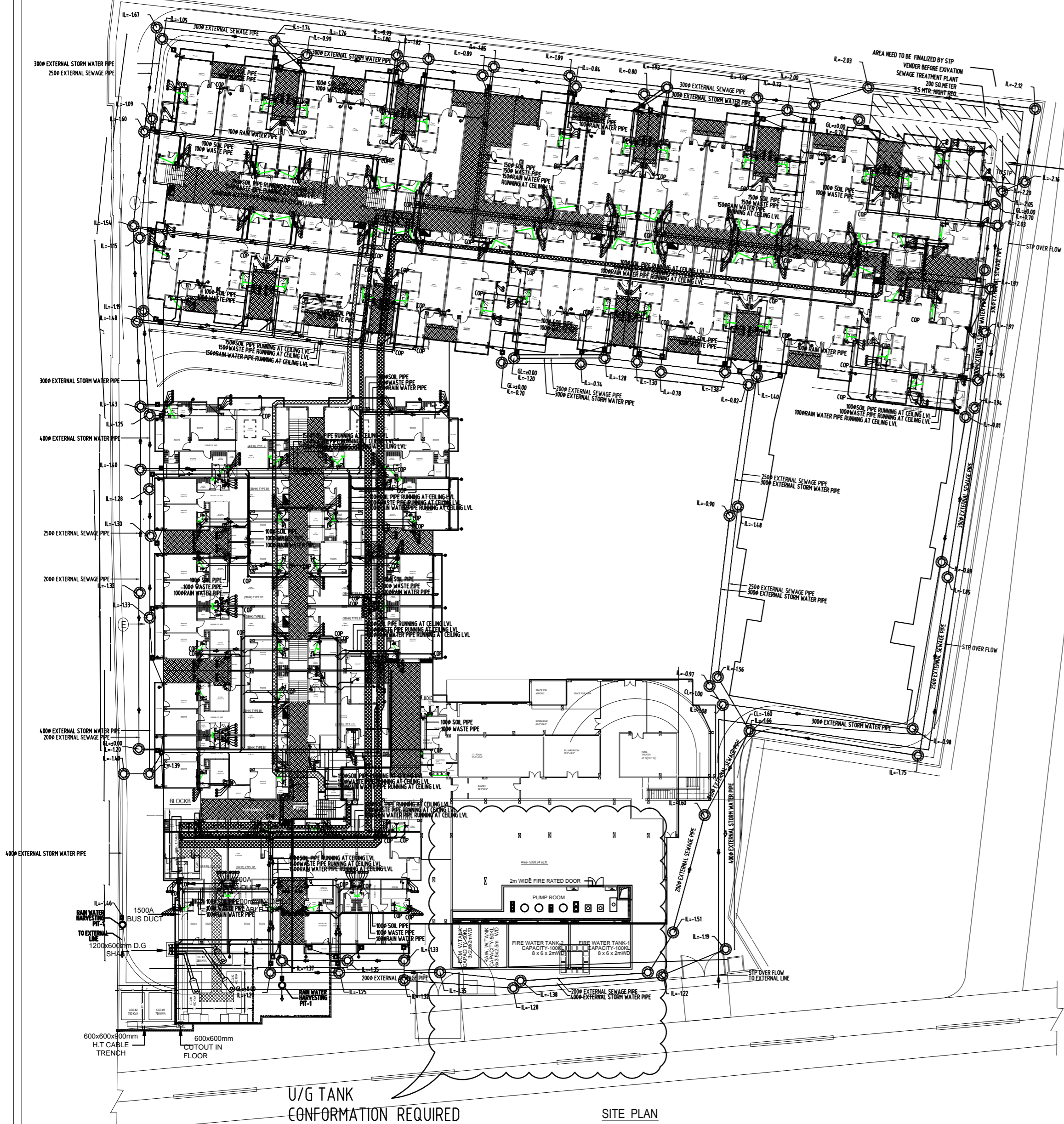


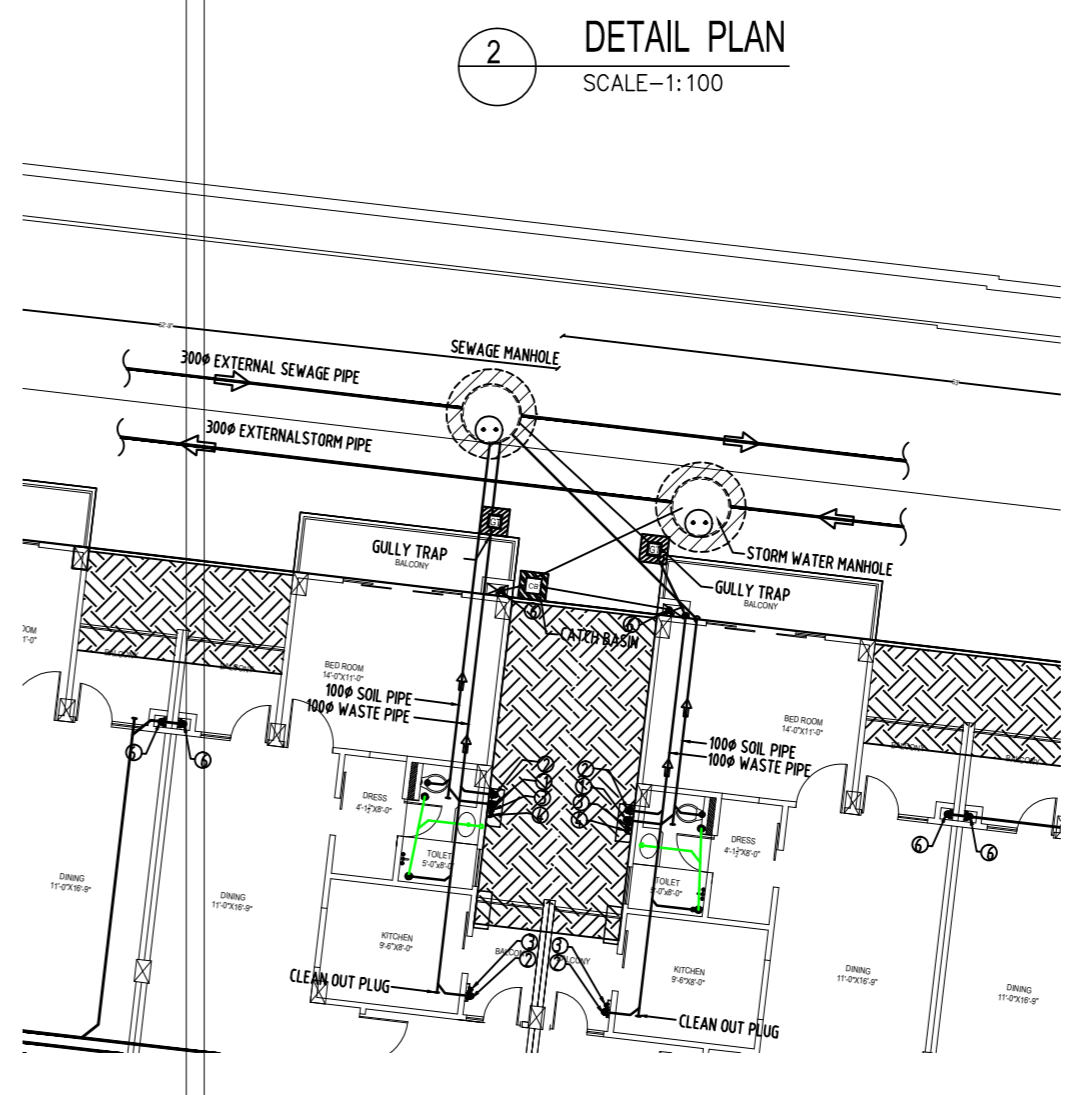
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



1 SITE PLAN
SCALE-1:300

NOTE:-
STP LOCATION AS
CONFORM BY CLIENT
5.5 METER. CLEAR HEIGHT REQ.
VENTILATION FOR STO REQ.



2 DETAIL PLAN
SCALE-1:100

PLUMBING LEGEND	
DESCRIPTION	SYMBOL
SOIL PIPE LINE	---
WASTE PIPE LINE	---
DOMESTIC WATER SUPPLY (DWS)	---
FLUSHING WATER SUPPLY (FWS)	---
HOT WATER SUPPLY (HWS)	---
FD	FLOOR DRAIN
FT	FLOOR TRAP(P-TRAP)
MT	MULTI TRAP
FROM WC TO VERT.STACK 110Ø uPVC SOIL PIPE	
FROM FT TO VERT.STACK 110Ø uPVC WASTE PIPE	
FROM FD TO FT 50Ø uPVC PIPE	
FROM WB TO FT 32Ø uPVC PIPE	
FROM URINAL TO UT 40Ø uPVC PIPE	
FROM SINK TO FT 40Ø uPVC PIPE	

PLUMBING LEGENDS :-

SYMBOL	DESCRIPTION
WM	WATER METER
Valve	VALVE
CB	CATCH BASIN
SWMH	CIRCULAR MANHOLE
GT	GULLY TRAP
MH	CIRCULAR MANHOLE
Storm Water Line	STORM WATER LINE
Sewerage Line	SEWERAGE LINE
Domestic Water Supply Line	DOMESTIC WATER SUPPLY LINE
Irrigation Water Supply Line	IRRIGATION WATER SUPPLY LINE
Flushing Water Supply Line	FLUSHING WATER SUPPLY LINE
Municipal Water Supply Line	MUNCIPAL WATER SUPPLY LINE
Borewell Water Supply Line	BOREWELL WATER SUPPLY LINE

ADVANCE COPY

(CO ORDINATED SYSTEM LAYOUT)

NOTES:-
[GENERAL]
(1) ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE MENTIONED.
(2) ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED NEITHER THE BARS SHALL BE COUNTED NOR THE DIMENSIONS SCALED FROM THE DRG.
(3) ANY DISCREPANCY IN THE DRGS. SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT/CONSULTANT AND CLARIFICATION OBTAINED IN WRITING PRIOR TO EXECUTION OF WORK.
(4) HIGH YIELD STRENGTH DEFORMED BARS OF YIELD STRESS 500 N/MM² (F=500) WHICH SHALL CONFORM TO IS-1786 SHALL BE USED AS REINFORCEMENT.
(5) CLEAR COVER OF OUTER LAYER REINF. SHALL BE AS FOLLOWS:
(a) FOOTING = 50 mm (b) COLUMN = 40 mm (c) BEAM = 25 mm (TOP & BOTTOM) OR DIA OF BAR WHICHEVER IS MORE (d) SLAB = 25 mm (e) WASTE SLAB = 25 mm
(6) ENDSIDE COVER OF ALL REINFORCEMENT IN BEAMS & SLAB = 25 mm. OR DIA OF BAR WHICHEVER IS MORE.
(7) THE COVER BLOCK OF CEMENT MORTAR SHALL BE USED TO ENSURE THE REQD. COVER OF REINFORCEMENT.
(8) DEVELOPMENT LENGTH (L_d) FOR DIFFERENT DIA METER OF BARS FOR CONC. MIX OF GRADE M-25 SHALL BE = 42 X DIA OF BAR.
(9) CONC. MIX FOR R.C.C. WORK SHALL BE OF GRADE M-25 CONFORMING TO IS-456:2000.
(10) NECESSARY FIXTURE FOR ELECTRICAL PLUMBING, ETC. SHALL BE PROVIDED IN SLAB BEAMS BEFORE EXECUTION AS PER RELEVANT DRGS.
(11) THE STRUCTURE HAS BEEN DESIGNED FOR SEISMIC ZONE - II.
(12) THE STRUCTURE HAS BEEN DESIGNED FOR BASEMENT-OF-2+MUMTY+5 STOREY P.C.C.I.14.8 SHALL BE PROVIDED.
(13) ALL PLAIN CONCRETE & RCC SHALL BE STRICTLY IN ACCORDANCE WITH THE

PROVISION OF IS - 456:2000
CUTTING, BENDING, FIXING & PLACING OF BARS SHALL BE IN ACCORDANCE WITH IS - 2002:1988, IS - 5025:1999 & IS - 456:2000
[FOUNDATION]
(1) THE LAYOUT OF BUILDING SHALL BE GIVEN FROM THE ARCH. DRG. THE DESIGN DATA FOR FOUNDATION HAS BEEN TAKEN FROM SOIL TEST REPORT PROVIDED BY THE DEPT./CLIENT (SC-103:103M).
(2) ALL EXTERIOR WALLS SHALL BE PROVIDED WITH THE WALL BELOW PLINTH BEAMS AS TYPICAL DETAIL IS GIVEN.
(3) EARTH BELOW FOUNDATION SHALL BE PROPERLY RAMMED & CONSOLIDATED BEFORE LAYING LEAN CONCRETE.
[COLUMNS]
(1) TIES IN PORTION OF COL. & BEAM JUNCTION SHALL BE SAME AS END ZONE. OVER LAPS ARE ALLOWED ONLY AT 'MIDDLE ZONE' OF THE COLUMNS.
(2) NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT A SECTION AND LAPS SHALL BE STAGGERED.
(3) TIES IN PORTION OF COL. BELOW PLINTH BEAM SHALL BE SAME AS END ZONE.
(4) VERTICAL BARS OF RCC COLUMN AT TOP SLAB SHALL BE EXTENDED UP TO TOP OF BEAM & BENT INTO BEAM BY DEVELOPMENT LENGTH.
[BEAMS]
(1) FOR LOCATION OF BEAMS REFER SLAB PLAN.
(2) THE SPACING OF STRUTS AT OVERLAPS SHOULD NOT EXCEED 150 MM. C.C.
(3) WHERE TWO LAYERS OF REINF. BARS ARE TO BE PROVIDED, SPACER BARS ARE TO BE PROVIDED AT SPACING OF 100 MM MAX. AND THE DIA OF THE SPACER BAR SHALL BE HIGHER OF DIA OF LONGITUDINAL BARS OR 25 MM.

(4) AT THE JUNCTION OF TWO DIFF. NUMBER OF BEAMS THE HIGHER REINF. AT THE SUPPORT SHALL BE ADOPTED.
(5) OVER LAP IN TOP BARS SHALL BE NEAR MID SPAN & IN BOTTOM BARS SHALL BE NEAR SUPPORT OR AT SUPPORT.
(6) THE DEPTH OF BEAM/PILE MONOLITHIC WITH SLAB AS SPECIFIED IN SCHEDULE SHALL BE INCLUSIVE OF SLAB THICKNESS UNLESS OTHERWISE SPECIFIED.
(7) HOOKS IN STRUTS OF BEAMS SHALL BE BENT INSIDE AT 135° & LENGTH OF HOOKS SHALL BE 10 X DIA OF BARS OF STRUTS.
[SLABS]
(1) FOR SLAB REINFORCEMENT REFER TABLE 4 (DETAIL OF SLAB REINFORCEMENT) AT THE SUPPORT SHALL BE ADOPTED.
(2) ALTERNATE BOTTOM BARS SHALL BE CRANKED AT L/7 OF SPAN AND EXTENDED UP TO L/3 IN ADJACENT SLAB PANEL AS SHOWN IN TYP. SECTION OF SLAB.
(3) EXTRA BAR OF SAME DIA. OF SLAB BARS SHALL BE PROVIDED AT TOP FACE IN BETWEEN TWO CRANKED BARS AS SHOWN IN TYP. SECTION OF SLAB.
(4) THE CROSS REINF. / TEMP. REINF. BELOW TOP REINF. OF SLAB i.e. #8@300c/c IS TO BE PROVIDED JUST BELOW THE MAIN TOP STEEL AS SHOWN IN TYP. SEC. OF SLAB.
(5) TIES IN PORTION OF COL. BELOW PLINTH BEAM SHALL BE PLACED AT 80 mm. OR HALF THE SPACING SPECIFIED WHICHEVER IS LESS FROM THE FACE OF SUPPORT.
[MASONRY WORK]
(1) 115 TH (1/2) BRICK WALL - 1:4 CEMENT SAND MORTAR SHALL BE USED & #1 NOS. BARS AT EVERY 4th COURSE SHALL BE PROVIDED.
(2) 230 TH (1) BRICK WALL - 1:6 CEMENT SAND MORTAR SHALL BE USED.
(3) THE VERTICAL FACE OF CONCRETE AT JUNCTION OF WALL & RCC MEMBER SHALL BE RAKED TO GIVE A ROUGH SURFACE & 1:4 CEMENT SAND MORTAR SHOULD BE APPLIED TO DEVELOPED BOND BETWEEN BRICK & RCC MEMBER.

(4) 115 TH (1/2) BRICK WALL EXCEEDING 3.0 M. IN LENGTH & 230 TH BRICK WALL EXCEEDING 4.5 M. IN LENGTH, VERTICAL STIFFENER HAS TO BE PROVIDED AS SHOWN IN DETAILS OF STRENGTHENING MEASURES OF PANEL WALLS.
REFERENCES: IS-456:2000, IS-13020, IS-1993, IS-1893 PART (1):2002, SP-16, SP-34 ARCH. DRG. NO. - ALL ARCH. DRGS.
REVISION
S.N. DATE DESCRIPTIONS INITIAL
DATE 27-12-16
DRN. VIRENDER
CKD. RAMESH SANORIA
TCD.
SCALE 1:300 DRG. NO. - STCMO-BLY/2203/2014
PROJECT
PROPOSED APARTMENT ADDRESS LA AT CIVIL LINES

CLIENT:-
ADDRESS LA
DRG. TITLE:- PLUMBING SYSTEM LAYOUT
CO-ORDINATED
GROUND FLOOR PLAN
FOR APPROVAL
ARCHITECT
STRUCTURAL ENGINEER

ARCHITECT:
SAGUN
ARCHITECTS & INTERIOR DESIGNERS
S-19 FIRST FLOOR, JANAKPURI, BAREILLY.
e-mail - sagun_a@rediffmail.com
Structural Consultants:
Er. Brajpal Singh
B.Tech (Civil) T.ROOKEE
BRAJ INFRA ENGINEERS PVT. LTD.
A-64, VAIBHAV, SUNCITY VISTARA, BAREILLY
e-mail - erbrajpal@rediffmail.com, erbrajpal@yahoo.co.in

MEP CONSULTANTS
R S ASSOCIATES
S-18, SECOND FLOOR, ONE MART MALL
SECTOR-6, VASUNDHARA
GHAZIABAD - UP
Ph. NO.: 0120-4229808/09540252808
email: rsassociates2006@gmail.com