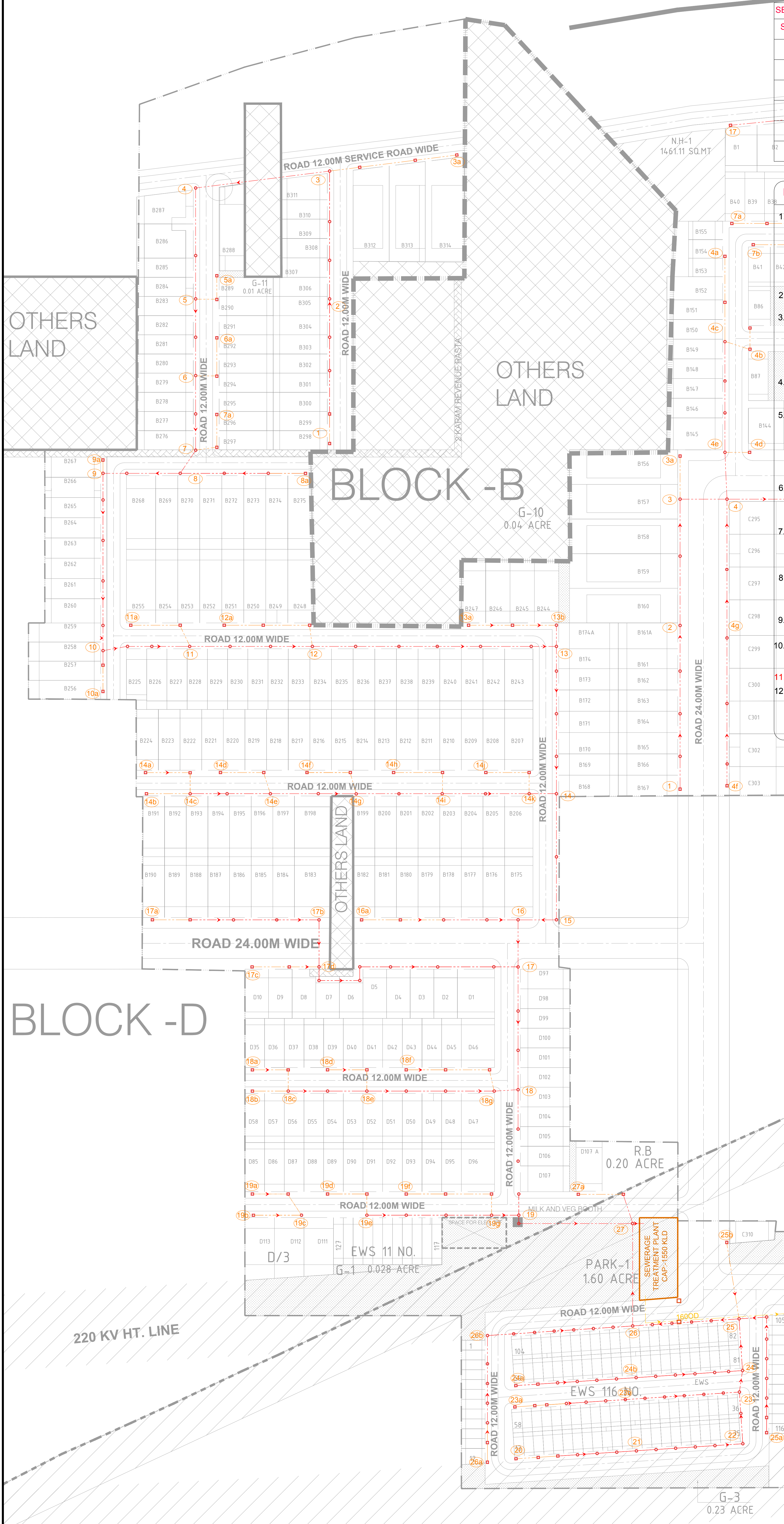




SEWER LEGENDS:-		
S.NO.	SYMBOL	DESCRIPTION
1.		SEWER MANHOLE
2.		SEWER MANHOLE 800x900 MM
3.		(DWC SN-8) SEWER PIPE
4.		NODES
5.		SEWAGE TREATMENT PLANT
6.		STP OVERFLOW LINE

NOTES :

- THE SIZE OF MANHOLE SHALL BE AS UNDER (INNER SIZES)
a) UPTO 750 M.M. DEPTH 800x900 M.M. REC. MANHOLE.
b) 900 TO 1650 M.M. DEPTH 900 M.M. DIA.
c) 1650 TO 2300 M.M. DEPTH 1200 M.M. DIA.
d) ABOVE 2300 M.M. DEPTH 1500 M.M. DIA.
- RUNGS SHALL BE PROVIDED IN EACH MANHOLE WHICH IS DEEPER THAN 800 M.M.
- THE LEVELS OF SEWER / STORM LINES HAS BEEN WORKED OUT ON THE BASIS OF CERTAIN ROAD LEVEL AND FOR CERTAIN PIPE LENGTHS BETWEEN TWO MANHOLES. THE INVERT LEVELS HAS TO BE STRICTLY FOLLOWED. HOWEVER, THE SLOPE OF LINE MAY BE SLIGHTLY CHANGED.
- FOR ANY DISCREPANCY / COMMISSION THE MATTER SHOULD REFER TO THE CONSULTANTS BEFORE EXECUTION.
- MANHOLE SHALL BE PROVIDED AT FOLLOWING PLACES :
a) AT THE START OF EACH SEWER LINE.
b) AT EVERY JUNCTION AND POSITION WHERE THERE IS CHANGE OF SIZE, GRADIENT AND ALIGNMENT.
c) AT NOT MORE THAN 30 METER INTERVAL IN STRAIGHT LENGTH.
- WHERE THE DIAMETER OF PIPE IS INCREASED THE CROWN OF THE PIPE SHALL BE FIXED AT THE SAME LEVEL AND NECESSARY SLOPE SHALL BE GIVEN IN THE INVERT OF THE MANHOLE CHAMBER.
- THE STRUCTURAL DESIGN OF MANHOLES / PIPE BEDDING HAS TO BE DONE FOR LOCAL FIELD CONDITIONS SUCH AS FILLED UP SOIL / BLACK COTTON SOIL / HIGH SUB SOIL CONDITIONS.
- THIS DRAWING SHALL BE READ ALONG WITH THE GROUND FLOOR PLAN OF RESPECTIVE BUILDING FOR EXACT LOCATION OF APPURTENANCES / MAN HOLES ETC.
- SEWER / STORM LINE UNDER THE ROAD SHALL BE ENCASED AS MENTIONED IN BOQ.
- MANHOLE COVER SHOULD BE FINISHED WITH FINISHED FORMATION LEVEL AS PER LANDSCAPE DRAWING.
- MATERIAL OF PIPE :- DWC SN-8 PIPE
- WHEREVER ANY CONFLICT IN LEVELS BETWEEN DESIGN SHEET AND NODES / MANHOLE TAG WRITTEN ON DRAWINGS. THEN DESIGN SHEETS LINE & LEVELS SHALL BE CONSIDERED FOR EXECUTION.

HYDRAULIC DESIGN CHART FOR SEWERAGE											
Node		Diameter	Slope (1 in N)	Length of Pipe	Levels at Start		Levels at End		Depth		
FROM	To	mm	1:n	mtrs.	RL	IL	RL	IL	mtrs	mtrs	
1	2	200	150	67.50	0.00	-0.75	0.00	-1.20	0.75	1.20	
2	3	200	200	58.30	0.00	-1.20	0.00	-1.49	1.20	1.49	
3a	3	200	150	63.10	0.00	-0.75	0.00	-1.17	0.75	1.17	
3	4	200	200	62.75	0.00	-1.49	0.00	-1.81	1.49	1.81	
4	5	200	250	52.00	0.00	-1.81	0.00	-2.01	1.81	2.01	
5a	5	200	150	19.50	0.00	-0.75	0.00	-0.88	0.75	0.88	
5	6	200	250	35.60	0.00	-2.01	0.00	-2.16	2.01	2.16	
6a	6	200	150	27.60	0.00	-0.75	0.00	-0.93	0.75	0.93	
6	7	200	250	33.00	0.00	-2.16	0.00	-2.29	2.16	2.29	
7a	7	200	150	25.00	0.00	-0.75	0.00	-0.92	0.75	0.92	
7	8	200	250	12.00	0.00	-2.29	0.00	-2.34	2.29	2.34	
8a	8	200	150	59.00	0.00	-0.75	0.00	-1.14	0.75	1.14	
8	9	250	350	34.75	0.00	-2.39	0.00	-2.48	2.39	2.48	
9a	9	200	150	8.50	0.00	-0.75	0.00	-0.81	0.75	0.81	
9	10	250	350	76.50	0.00	-2.48	0.00	-2.70	2.48	2.70	
10a	10	200	150	24.50	0.00	-0.75	0.00	-0.91	0.75	0.91	
10	11	250	350	41.00	0.00	-2.70	0.00	-2.82	2.70	2.82	
11a	11	200	150	33.00	0.00	-0.75	0.00	-0.97	0.75	0.97	
11	12	250	400	57.00	0.00	-2.82	0.00	-2.96	2.82	2.96	
12a	12	200	150	49.00	0.00	-0.75	0.00	-1.08	0.75	1.08	
12	13	250	400	101.00	0.00	-2.96	0.00	-3.22	2.96	3.22	
13a	13b	200	150	40.90	0.00	-0.75	0.00	-1.02	0.75	1.02	
13b	13	200	150	9.90	0.00	-1.02	0.00	-1.09	1.02	1.09	
13	14	250	400	80.50	0.00	-3.22	0.00	-3.42	3.22	3.42	
14a	14c	200	150	30.50	0.00	-0.75	0.00	-0.95	0.75	0.95	
14b	14c	200	150	17.50	0.00	-0.75	0.00	-0.87	0.75	0.87	
14c	14e	200	150	32.20	0.00	-0.95	0.00	-1.17	0.95	1.17	
14d	14e	200	150	30.50	0.00	-0.75	0.00	-0.95	0.75	0.95	
14e	14g	200	150	40.25	0.00	-1.17	0.00	-1.44	1.17	1.44	
14f	14g	200	150	30.50	0.00	-0.75	0.00	-0.95	0.75	0.95	
14g	14i	200	200	41.00	0.00	-1.44	0.00	-1.64	1.44	1.64	
14h	14i	200	150	30.50	0.00	-0.75	0.00	-0.95	0.75	0.95	
14i	14k	200	200	40.25	0.00	-1.64	0.00	-1.84	1.64	1.84	
14j	14k	200	150	30.50	0.00	-0.75	0.00	-0.95	0.75	0.95	
14k	14	200	200	12.75	0.00	-1.84	0.00	-1.91	1.84	1.91	
14	15	300	400	58.75	0.00	-3.57	0.00	-3.71	3.57	3.71	
15	16	300	400	18.00	0.00	-3.71	0.00	-3.76	3.71	3.76	
16a	16	200	150	72.50	0.00	-0.75	0.00	-1.23	0.75	1.23	
16	17	300	400	22.00	0.00	-3.76	0.00	-3.81	3.76	3.81	
17a	17b	200	150	77.50	0.00	-0.75	0.00	-1.27	0.75	1.27	
17b	17d	200	200	22.00	0.00	-1.27	0.00	-1.38	1.27	1.38	
17c	17d	200	150	31.00	0.00	-0.75	0.00	-0.96	0.75	0.96	
17d	17	200	200	105.50	0.00	-1.38	0.00	-1.90	1.38	1.90	
17	18	400	400	58.00	0.00	-3.81	0.00	-3.96	3.81	3.96	
18a	18c	200	150	26.50	0.00	-0.75	0.00	-0.93	0.75	0.93	
18b	18c	200	150	16.75	0.00	-0.75	0.00	-0.86	0.75	0.86	
18c	18e	200	150	36.50	0.00	-0.93	0.00	-1.17	0.93	1.17	
18d	18e	200	150	28.00	0.00	-0.75	0.00	-0.94	0.75	0.94	
18e	18g	200	150	36.50	0.00	-1.17	0.00	-1.41	1.17	1.41	
18f	18g	200	150	28.00	0.00	-0.75	0.00	-0.94	0.75	0.94	
18g	18	200	200	34.00	0.00	-1.41	0.00	-1.58	1.41	1.58	
18	19	400	400	57.50	0.00	-3.96	0.00	-4.10	3.96	4.10	
19a	19c	200	150	28.25	0.00	-0.75	0.00	-0.94	0.75	0.94	
19b	19c	200	150	22.50	0.00	-0.75	0.00	-0.90	0.75	0.90	
19c	19e	200	150	30.50	0.00	-0.94	0.00	-1.14	0.94	1.14	
19d	19e	200	150	28.00	0.00	-0.75	0.00	-0.94	0.75	0.94	
19e	19g	200	200	58.00	0.00	-1.14	0.00	-1.43	1.14	1.43	
19f	19g	200	150	50.00	0.00	-0.75	0.00	-1.08	0.75	1.08	
19g	19	200	200	12.75	0.00	-1.43	0.00	-1.50	1.43	1.50	
19	27	400	400	56.00	0.00	-4.10	0.00	-4.24	4.10	4.24	
20	21	200	150	56.75	0.00	-0.75	0.00	-1.13	0.75	1.13	
21	22	200	200	47.50	0.00	-1.13	0.00	-1.37	1.13	1.37	
22	23	200	200	24.00	0.00	-1.37	0.00	-1.49	1.37	1.49	
23a	23b	200	150	53.75	0.00	-0.75	0.00	-1.11	0.75	1.11	
23b	23	200	200	50.50	0.00	-1.11	0.00	-1.36	1.11	1.36	
23	24	200	200	10.00	0.00	-1.49	0.00	-1.54	1.49	1.54	
24a	24b	200	150	55.00	0.00	-0.75	0.00	-1.12	0.75	1.12	
24b	24	200	200	51.50	0.00	-1.12	0.00	-1.37	1.12	1.37	
24	25	200	200	24.00	0.00	-1.54	0.00	-1.66	1.54	1.66	
25a	25	200	150	67.00	0.00	-0.75	0.00	-1.20	0.75	1.20	
25b	25	200	150	25.75	0.00	-0.75	0.00	-0.92	0.75	0.92	
25	26	200	200	50.50	0.00	-1.20	0.00	-1.45	1.20	1.45	
26a	26b	200	150	59.00	0.00	-0.75	0.00	-1.14	0.75	1.14	
26b	26	200	200	63.00	0.00	-1.14	0.00	-1.46	1.14	1.46	
26	27	200	225	47.75	0.00	-1.46	0.00	-1.67	1.46	1.67	
27a	27	200	150	35.00	0.00	-0.75	0.00	-0.98	0.75	0.98	
27	STP	400	400	6.00	0.00	-4.24	0.00	-4.26	4.24	4.26	

STAGE : TENDER		
DATE: 01.09.2021		
REV.NO. -		
JOB TITLE- HES-1F		
REV. NOTES:		
DATE:	REV.	DESCRIPTION
CLIENT :		
ARCHITECT:		
ICHINEN ARCHITECTS PRIVATE LIMITED		
A-5 SAVODANA ENCLAVE, NEW DELHI - 110017		
MEP CONSULTANTS:		
HABITAT ENGINEERING SERVICES CONSULTANT		
A-127, Second Floor, Masoodpur		
Vasant Kunj, New Delhi-110070 Tel:		
9810620402, 7217662363		
Email :- habitatenvirosolutions@gmail.com		
PROJECT :		
PROPOSED RESIDENTIAL PLOTTED		
COLONY MEASURING 102.194 ACRE		
AT SECTOR -70, FARIDABAD		
DWG. TITLE :		
SITE PLAN		
ZONE - 1		
SEWER NETWORK LAYOUT		
DWG. NO : HES/2021/TF/SW/01-A		
SCALE : 1:800 @ A0		
DRAWN BY: NAVEEN RATHORE		
CHECKED BY : PRAVEEN		
APPROVED BY: JANARDAN SINGH		