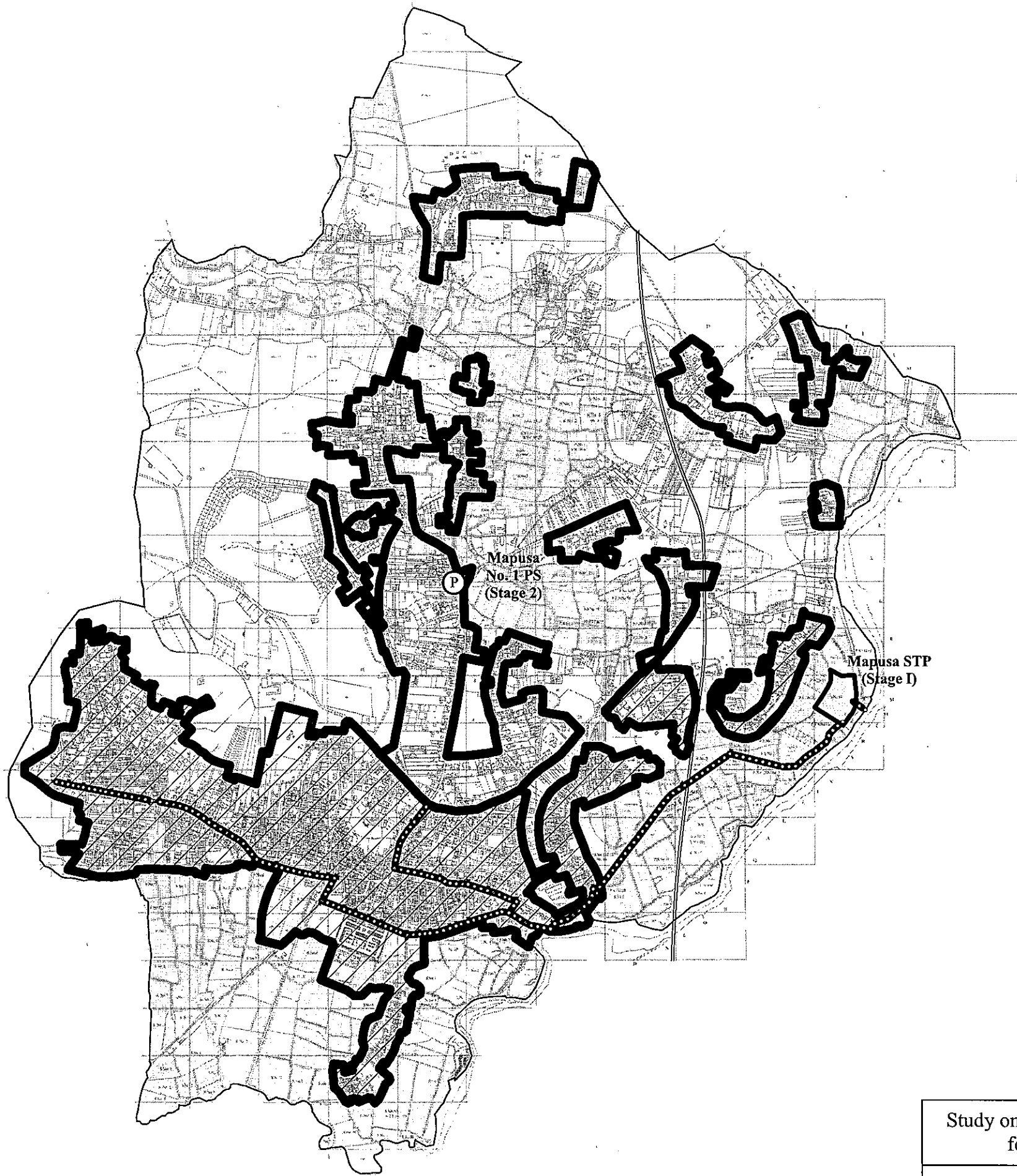



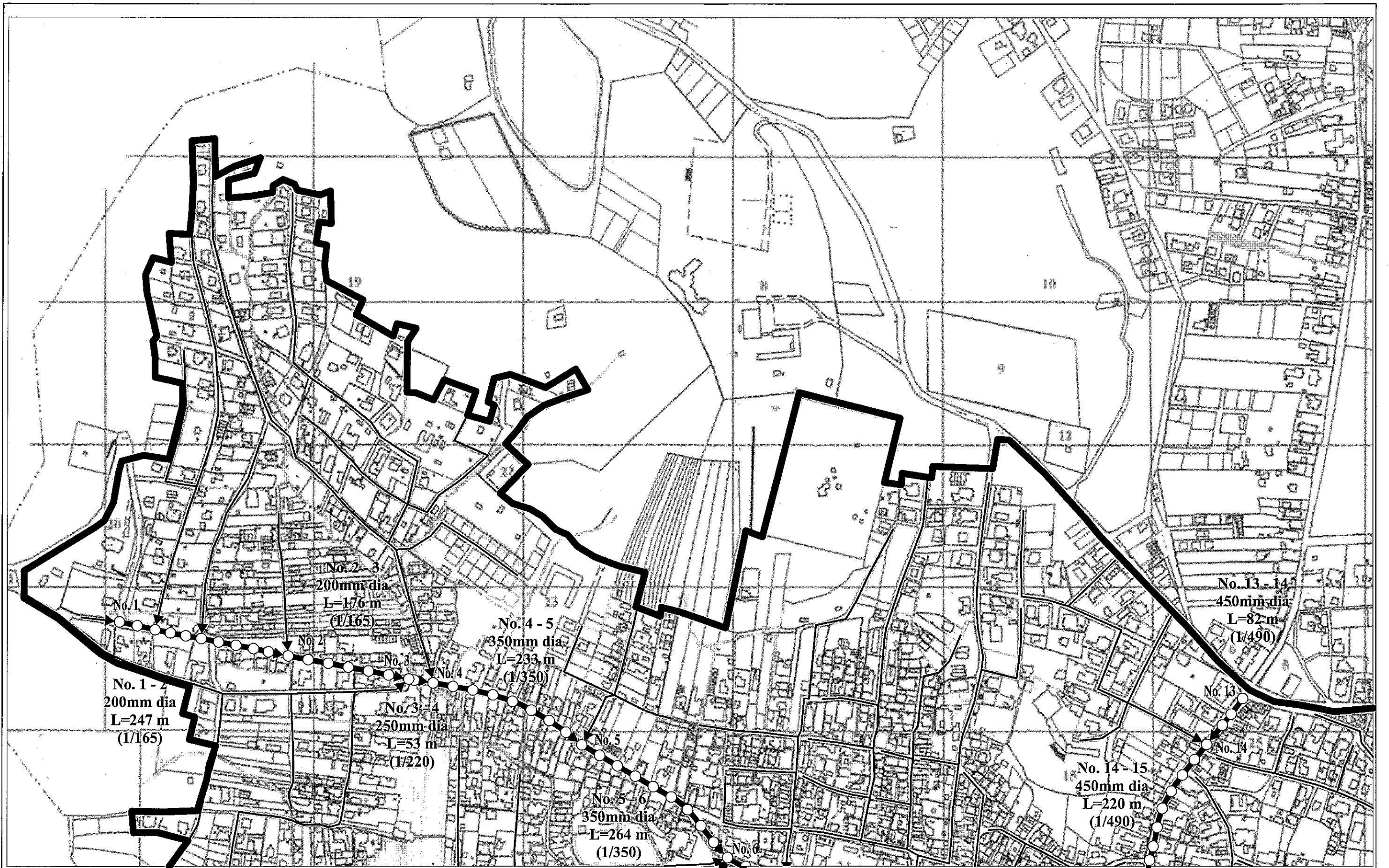


N
MAPUSA CITY MAP
SCALE - 1:7000



-  Boundary of Sewerage Service Area (Stage I)
-  Boundary of Sewerage Service Area (Stage II)
-  Boundary of Municipality of Mapusa

Study on Augmentation of Water Supply and Sanitation for the Goa State in the Republic of India	
General Plan of Sewerage (F/S) Mapusa	Scale: 1:20,000 No.: S-16



- Trunk Sewer
- ▬ Pressure Main
- ▬ Branch Sewer
- ▬ Boundary of Service Area (Stage 1)

Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

Plan for Sewer Network (F/S)
Mapusa (1/4)

Scale: 1:5,000
No.: S-17

No. 1 - 2
200mm dia
L=247 m
(1/165)

No. 2 - 3
200mm dia
L=176 m
(1/165)

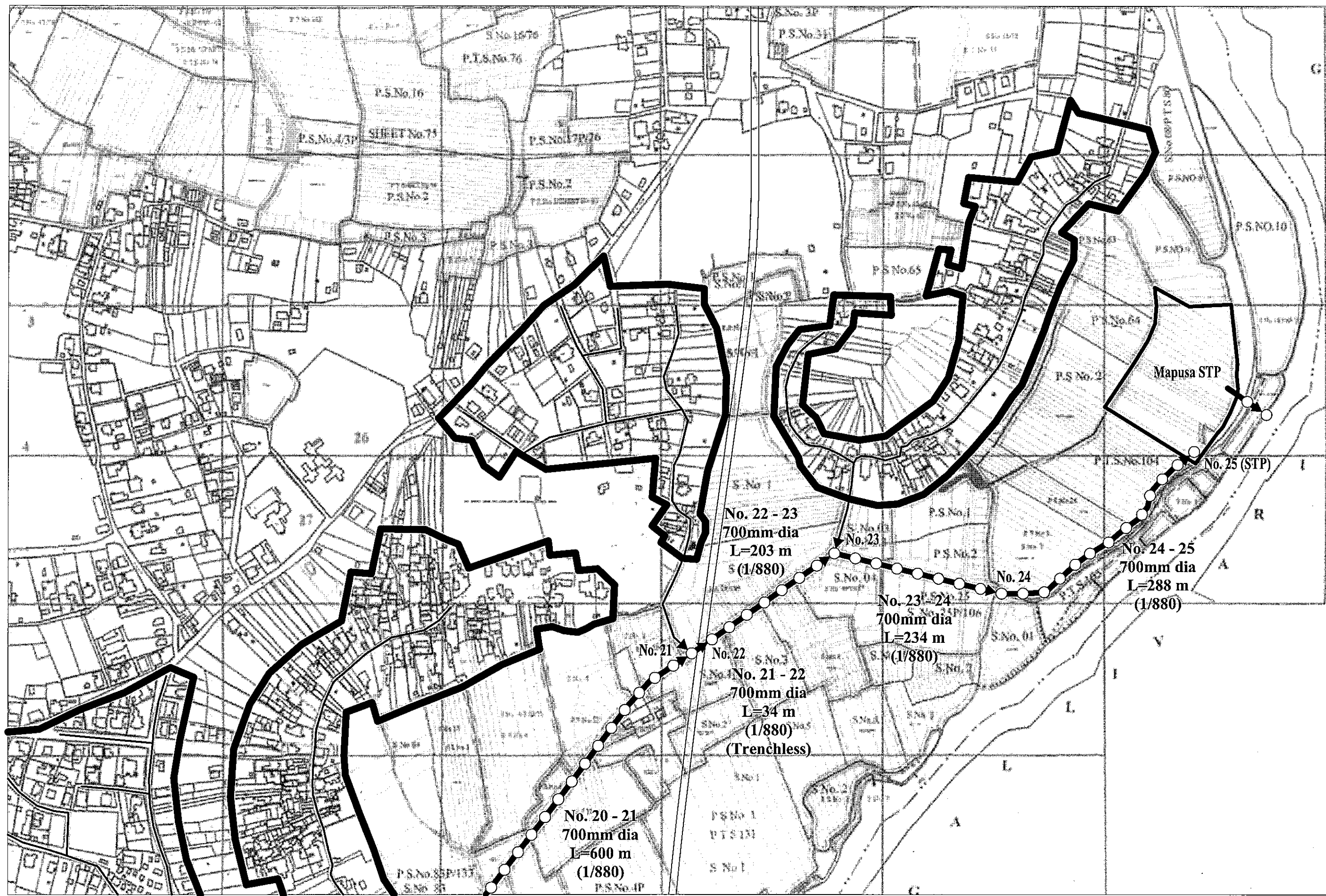
No. 3 - 4
250mm dia
L=53 m
(1/220)

No. 4 - 5
350mm dia
L=233 m
(1/350)

No. 5 - 6
350mm dia
L=264 m
(1/350)

No. 13 - 14
450mm dia
L=82 m
(1/490)

No. 14 - 15
450mm dia
L=220 m
(1/490)



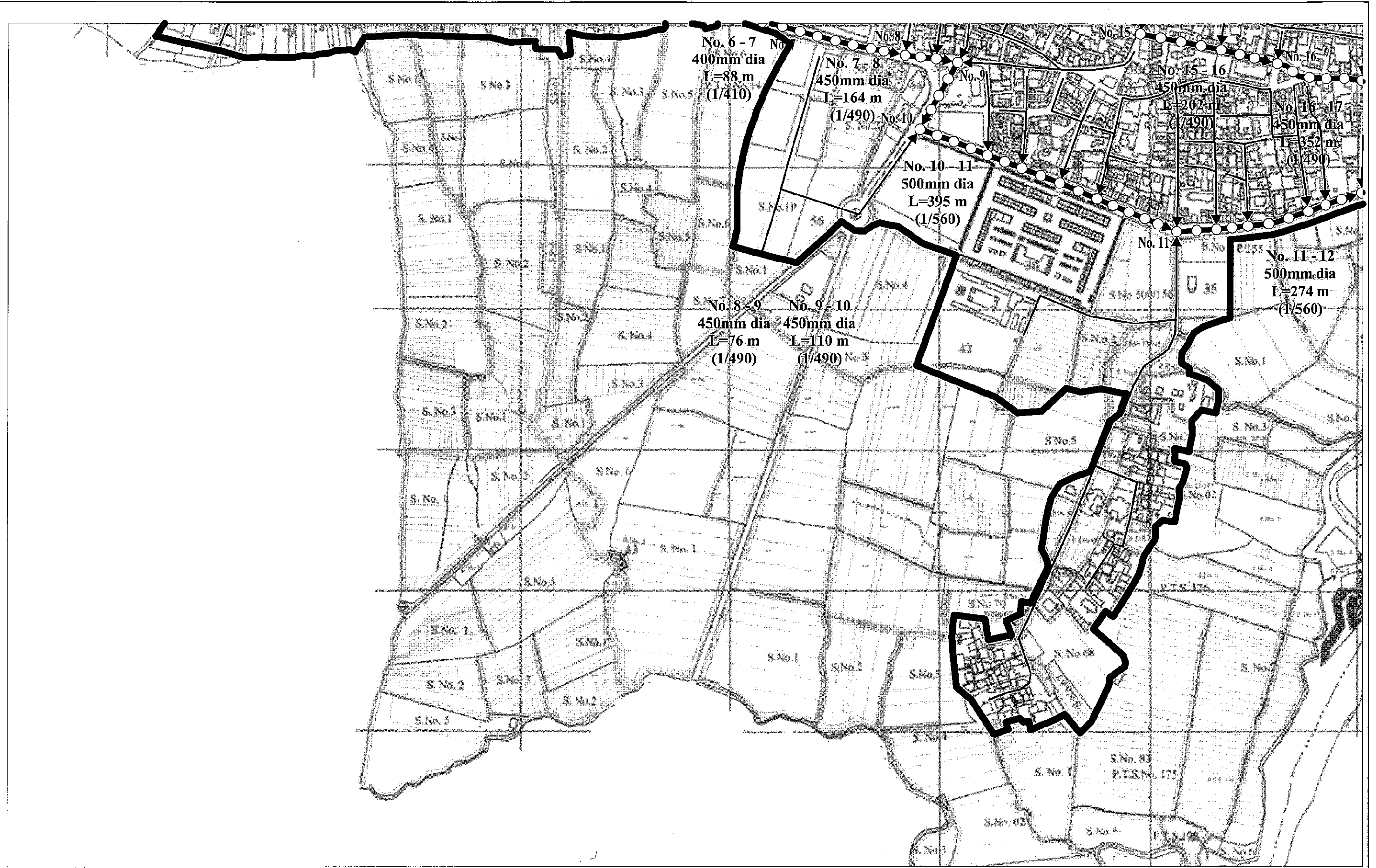
- Trunk Sewer
- Pressure Main
- Branch Sewer
- ▬ Boundary of Service Area (Stage 1)





Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

Plan for Sewer Network (F/S)
Mapusa (2/4)

Scale: 1:5,000

No.: S-18



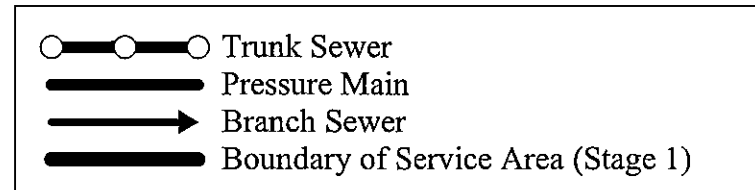
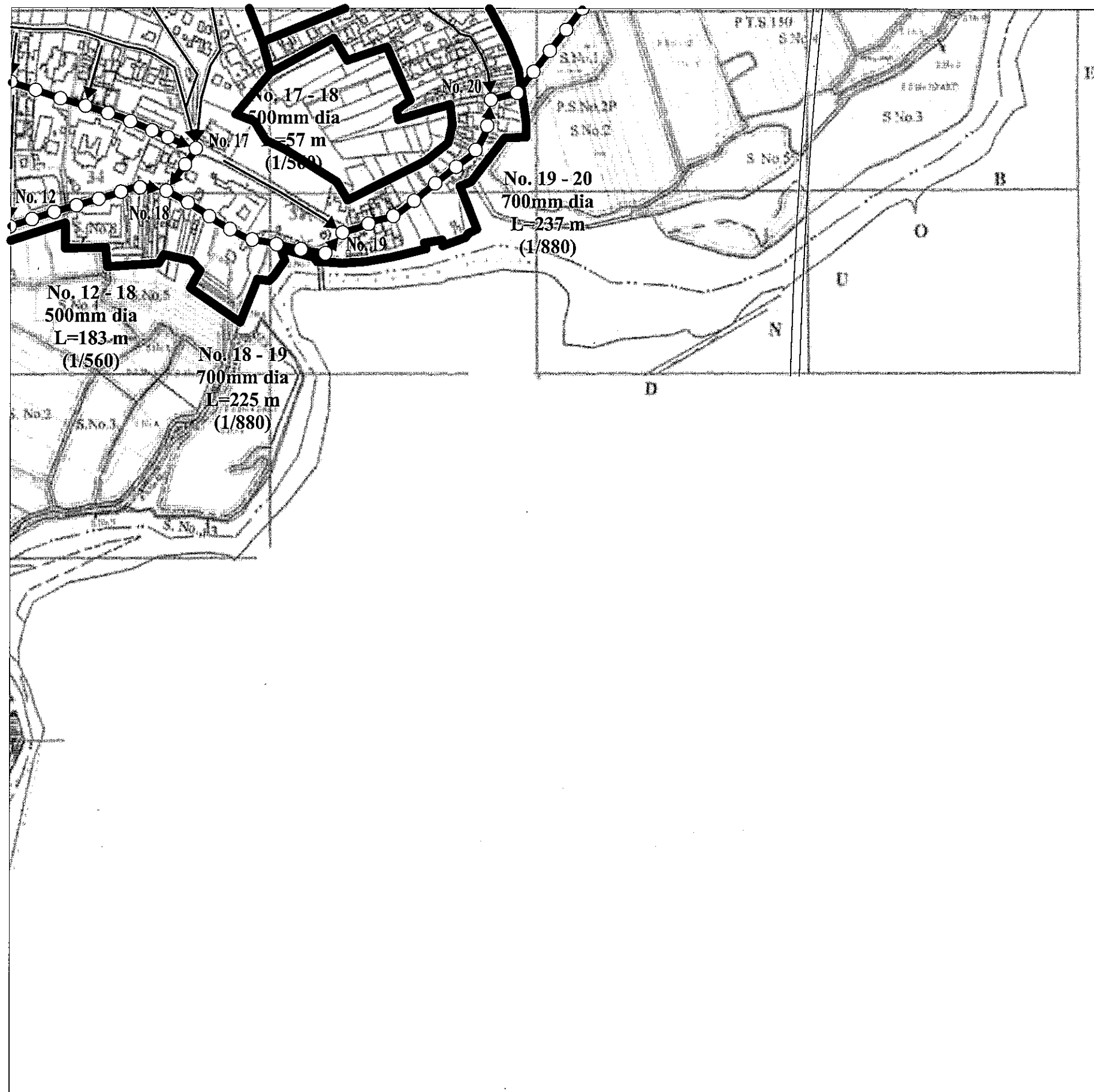
-  Trunk Sewer
-  Pressure Main
-  Branch Sewer
-  Boundary of Service Area (Stage 1)

Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

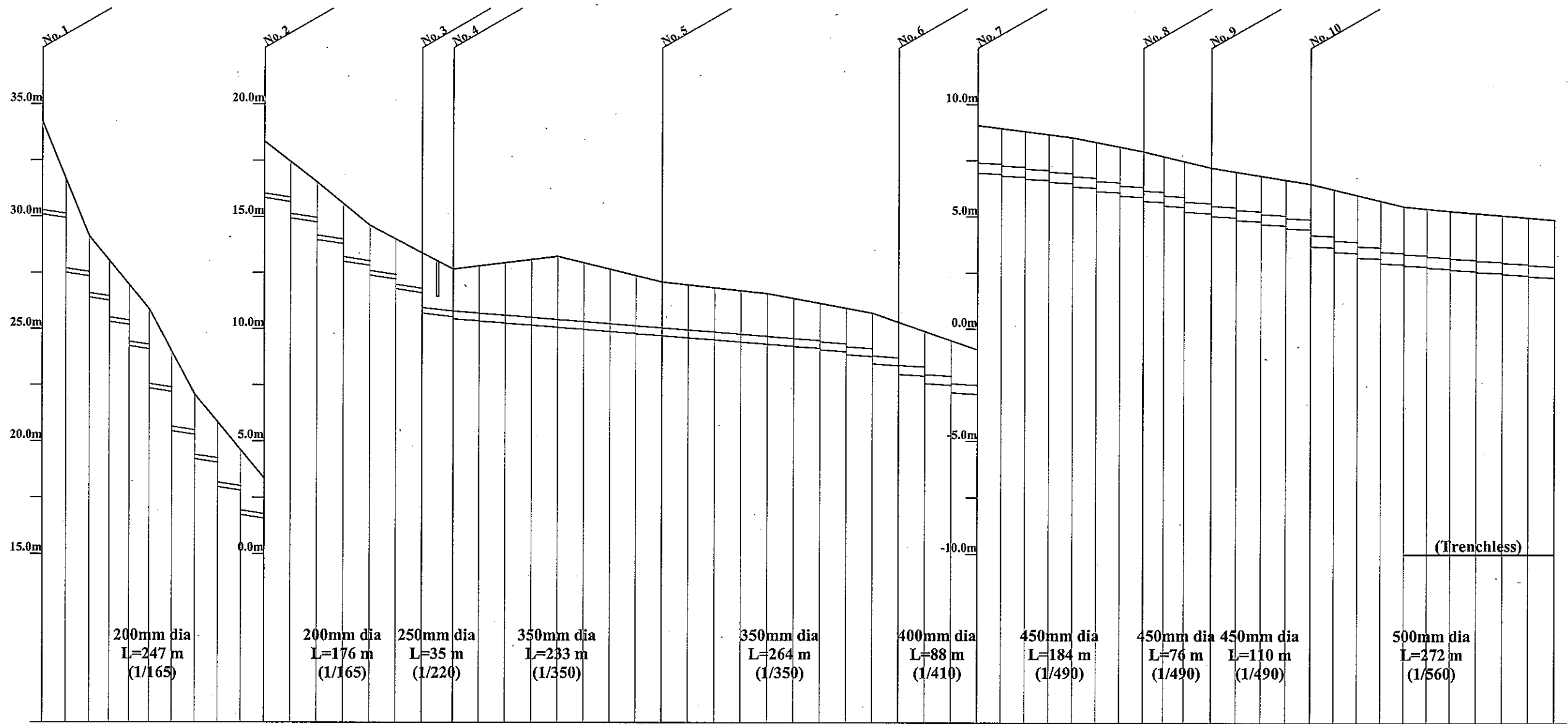
Plan for Sewer Network (F/S)
Mapusa (3/4)

Scale: 1:5,000

No.: S-19



Study on Augmentation of Water Supply and Sanitation for the Goa State in the Republic of India	
Plan for Sewer Network (F/S) Mapusa (4/4)	Scale: 1:5,000
	No.: S-20

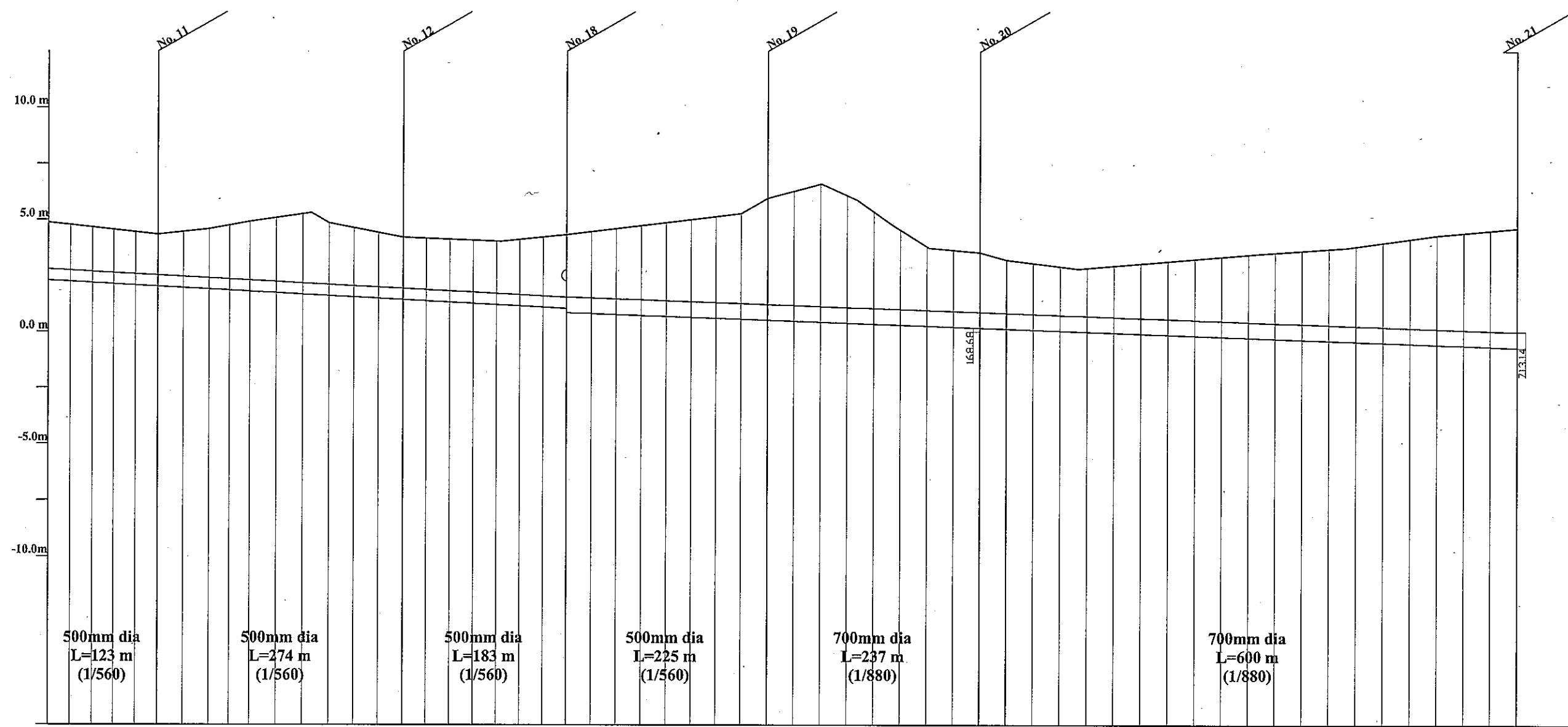


Ground Level (m)	34.24	29.12	25.87	22.06	18.35	16.54	14.61	13.38	12.66	13.23	12.09	11.57	10.70	10.29	9.07	8.52	7.91	7.19	6.47	5.74	5.27	4.88	
Invert Level (m)	30.097				16.570	15.844		10.690	10.531		9.685		8.968	8.950	7.990	5.980	5.160	5.030	4.440	3.680		2.830	2.130
Covering (m)	3.86				1.50	1.21		1.50	1.80		1.98		1.81	1.58	1.58	1.50	1.50	1.50	1.50	1.50		1.90	1.90
Chainage (m)	0				247			243	458		691			955		1,043		1,227	1,303		1,413		1,685

Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

Longitudinal Profile of Trunk Line (F/S)
Mapusa (1/4)

Scale: (H)1:200, (V)1:5,000
No.: S-21

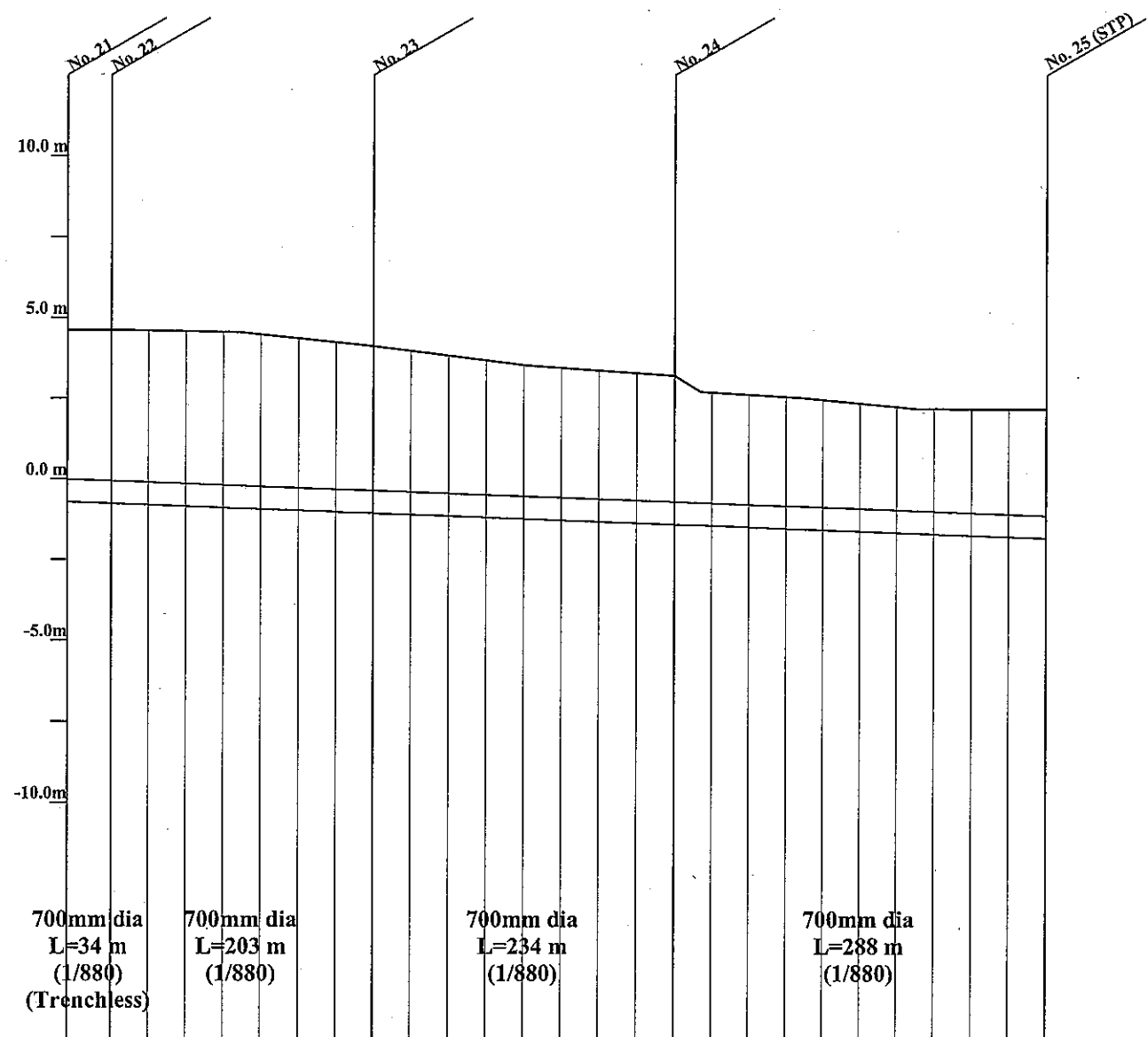


Ground Level (m)	4.88	4.35	4.59	4.93	5.32	4.86	4.22	4.04	4.34	5.28	5.96	6.60	5.88	4.75	3.74	3.54	3.20	2.81	3.14	3.48	3.75	4.30	4.62
Invert Level (m)		2.031	2.021				1.441	1.431	0.844		0.508					0.158	0.158						-0.713
Covering (m)		1.75					2.21	2.21	2.72		4.69					2.58	2.58						4.55
Chainage (m)	1,685	1,808					2,082	2,082	2,082		2,490					2,727	2,727						3,327

Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

Longitudinal Profile of Trunk Line (F/S)
Mapusa (2/4)

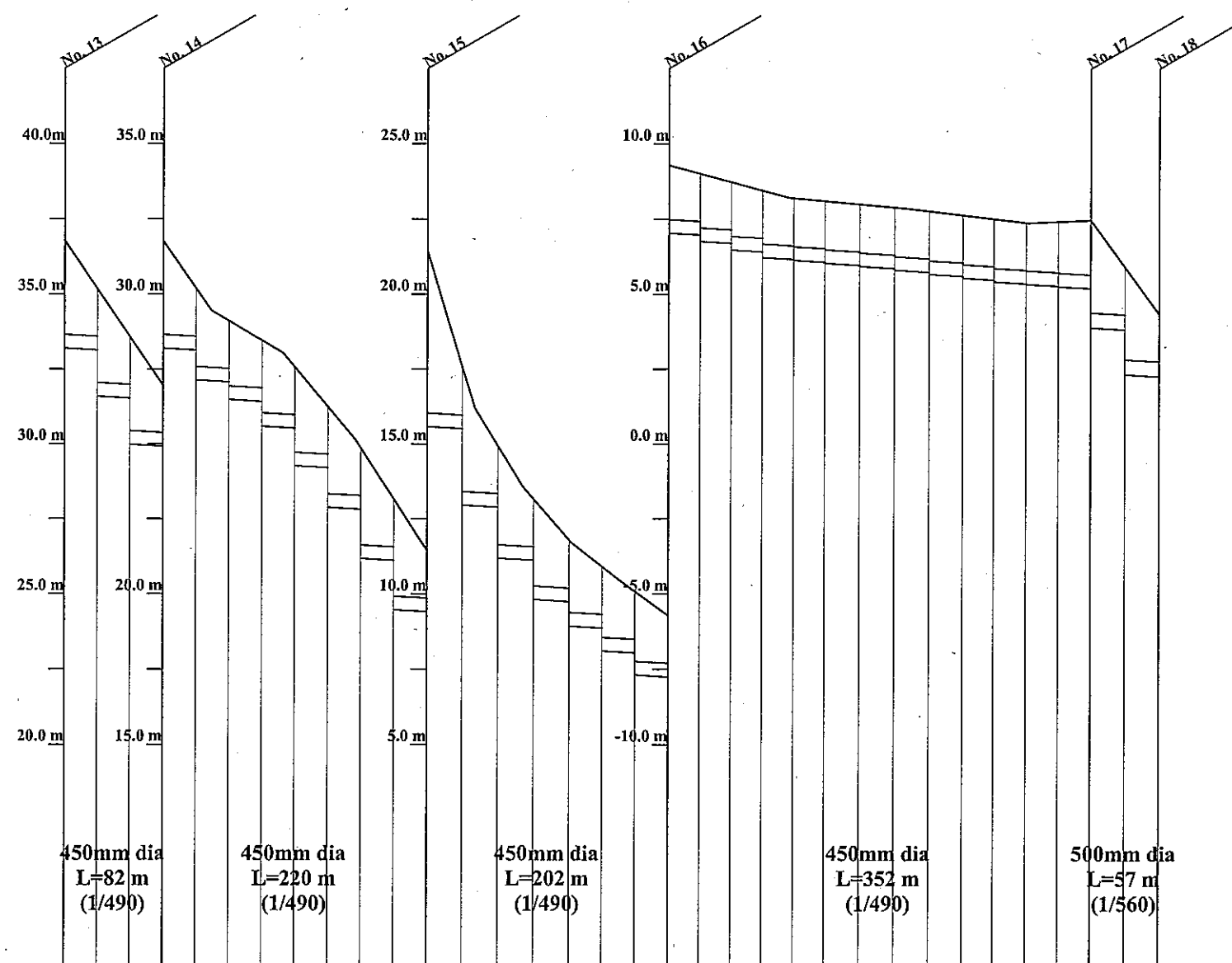
Scale: (H)1:200, (V)1:5,000
No.: S-22



Ground Level (m)	4.62	4.62	4.55	4.12	3.52	3.20	2.70	2.51	2.18	2.16
Invert Level (m)	-0.72	-0.72	-0.72	-1.07	-1.07	-1.40	-1.40	-1.40	-1.40	-1.83
Covering (m)	4.56	4.60	4.60	4.40	3.88	3.88	3.88	3.88	3.72	3.72
Chainage (m)	3.327	3.361	3.564	3.798	3.798	4.086	4.086	4.086	4.086	4.086

Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

Longitudinal Profile of Trunk Line (F/S) Mapusa (3/4)	Scale: (H)1:200, (V)1:5,000 No.: S-23
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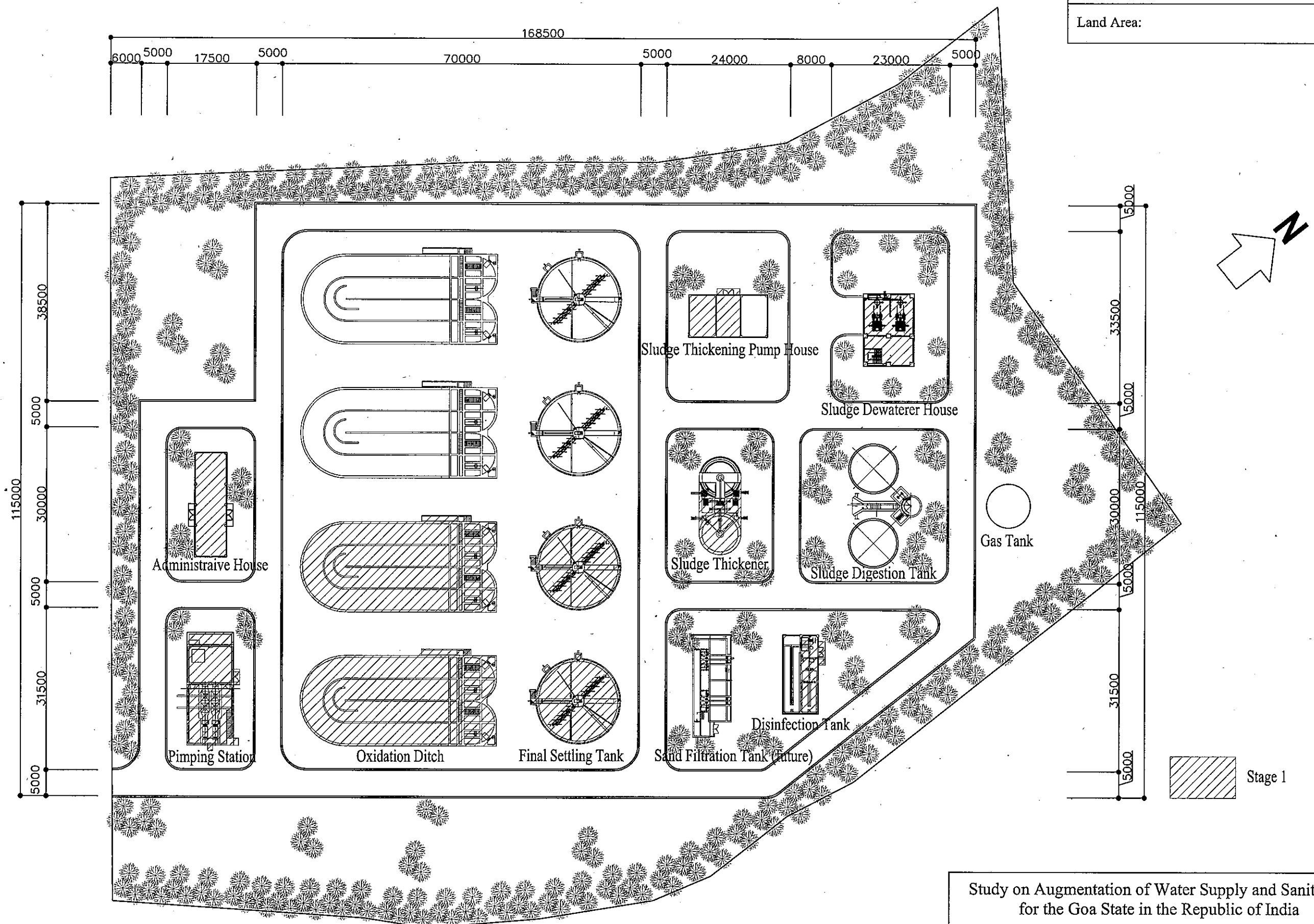
Ground Level (m)	36.77	31.95	29.45	28.03	25.16	21.44	16.20	13.58	11.73	10.49	9.28	8.21	7.85	7.38	7.46	4.34
Invert Level (m)	33.194	29.920	28.194	26.468	23.200	19.418	15.136	12.400	10.674	9.448	7.630	6.404	5.178	4.952	3.726	2.260
Covering (m)	3.05	1.50	3.23	1.56	1.96	1.82	1.06	1.18	1.06	0.85	1.65	1.81	2.68	2.43	3.74	2.08
Chainage (m)	0	82	302	504	706	908	1110	1312	1514	1716	1918	2120	2322	2524	2726	2928

Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

Longitudinal Profile of Trunk Line (F/S)
Mapusa (4/4)

Scale: (H)1:200, (V)1:5,000
No.: S-24

Design Capacity:	5.4 MLD (Stage 1) 5.4 + 5.4 = 10.8 MLD (Stage 2)
Land Area:	2.57 ha

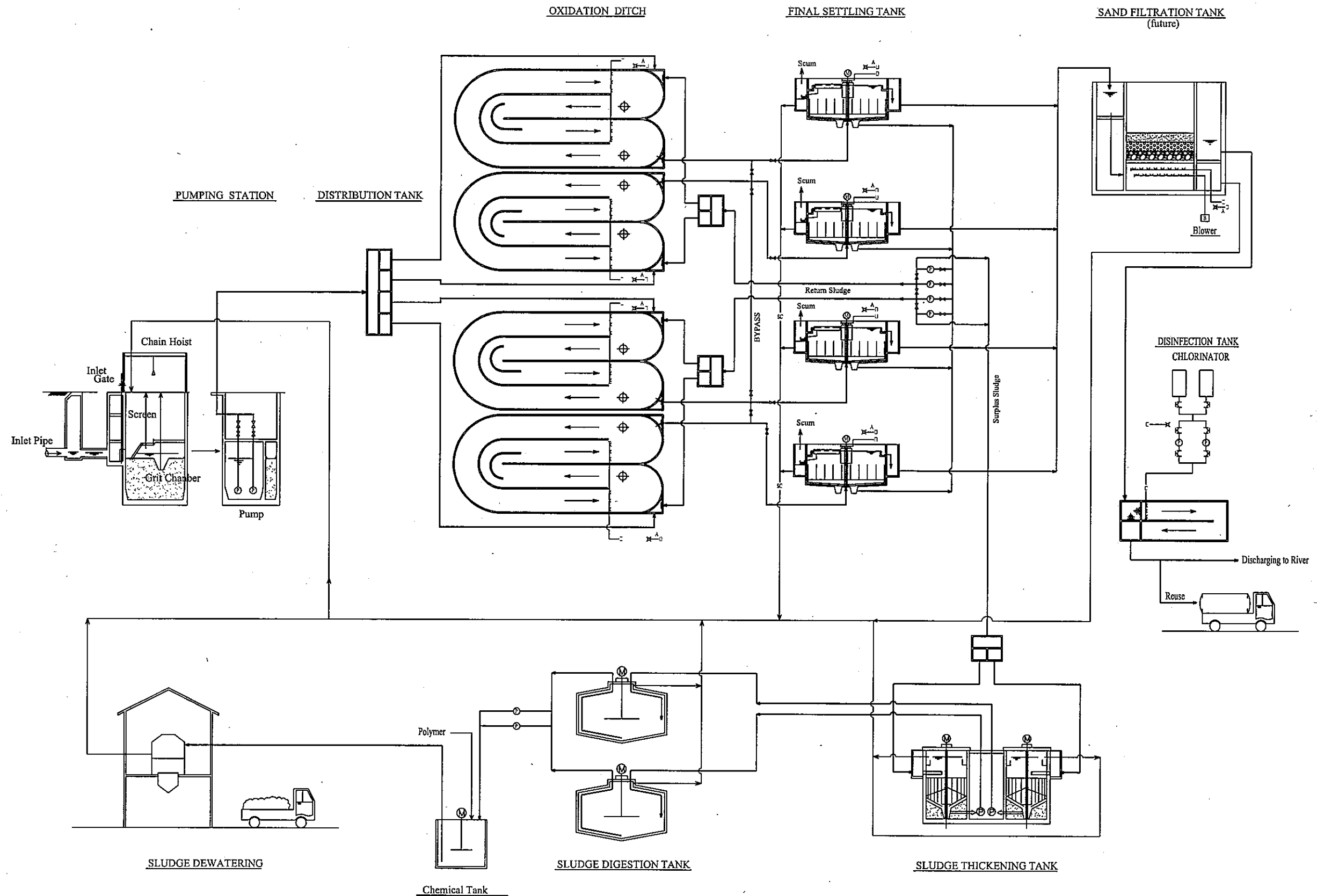


Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India

General Layout Plan of STP
Masupa STP

Scale: 1:750

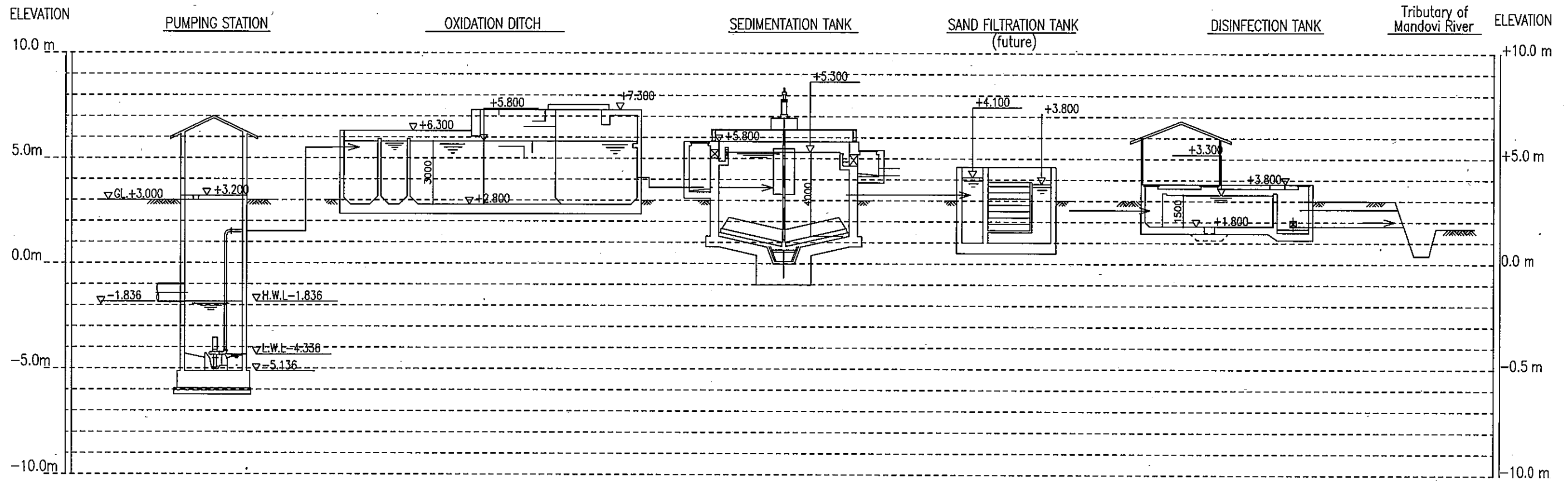
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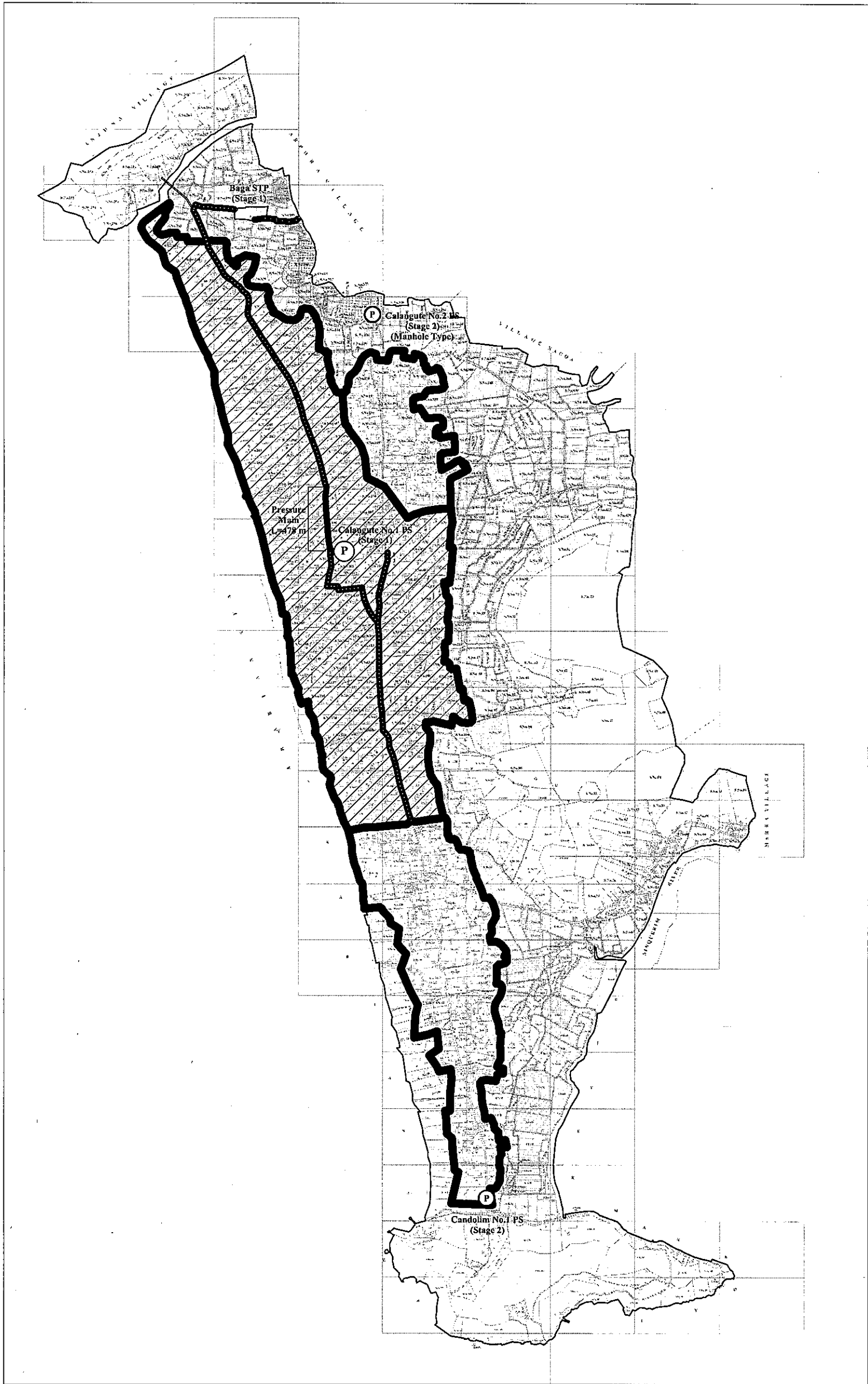
Study on Augmentation of Water Supply and Sanitation
for the Goa State in the Republic of India




Process Diagram of STP
Mapusa STP

Scale:
No.: S-26



Study on Augmentation of Water Supply and Sanitation for the Goa State in the Republic of India	
Hydraulic Profile of STP Mapusa STP	Scale: 1:200
	No.: S-27



-  Boundary of Sewerage Service Area (Stage 1)
-  Boundary of Sewerage Service Area (Stage 2)
-  Boundary of Municipality of Calangute and Candolim

Study on Augmentation of Water Supply and Sanitation for the Goa State in the Republic of India	
General Plan for Sewerage North Coastal Belt	Scale: 1:30,000 No.: S-28