

CWSS TO PADAVEDU AND 46 OTHER HABITATIONS IN POLUR UNION

SALIENT DETAILS

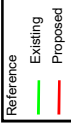
	Name of the CWSS	CWSS to Padavedu and 46 other habitations in polur union in Tiruvannamalai District	
	Administrative approval	Administrative sanction for Rs. 303.00 lakhs in the B.P.Ms.No.31/PDC (wing)/Dt. 24.02.2012	
	Technical sanction	Technical sanction CE/TWAD/Vellore in CER.No.39/2011-12/Dt.6.03.2012	
	Name of contractor	M/S. VSS constructions nagar, Dharmapuri	NO.90, Gandhi
	Date of work order	19.12.2012	
	Agreement No. & Amount	CE/CER NO.8/ 2012-13 Dt. 29.01.2013	Rs.2,61,93,135
	Date of handing over of site	17.01.2013	
	Date of completion of work	16.10.2013	
	Contractor maintenance perioed	1 year	
	Date of maintenance started	09.06.2014	
	Date of maintenance compleed	08.06.2015	
		Population	Requirement In Liters (LPM)
	present year (2011)	17344	
	Base year (2012)	17455	718560 (760)
	Intermediate year (2027)	19190	784080 (826)
	Ultimate year (2042)	20934	849600 (893)
	Ultimate requirement in LPM	893	
	Hours of pumping	16	
	Annual maintenance cost	Rs. 7.00 lakhs	
	Percapita cost	Rs. 1737	
	Cost per 1000 lit	Rs. 5.97	

1	Head works	
a	Infiltration well	4 Nos - 4.5 m dia 8 m depth
		1 No - 4.0 m dia 15 m depth
b	Pumpset	
	Infiltration well no1	Submersible Pumpset 207 lpm x 22m head with 1 No standby
	Infiltration well no2	Submersible Pumpset 207 lpm x 20m head with 1 No standby
	Infiltration well no3	Submersible Pumpset 207 lpm x 22m head with 1 No standby
	Infiltration well no4	Submersible Pumpset 207 lpm x 23m head with 1 No standby
	Infiltration well no5	Submersible Pumpset 250 lpm x 50m head with 1 No standby
c	Connecting main	
	Infiltration well no1	110mm OD PVC 4Ksc Pipe : 150m
	Infiltration well no2	90mm OD PVC 4Ksc Pipe : 20m
	Infiltration well no3	90mm OD PVC 4Ksc Pipe : 160m
	Infiltration well no4	90mm OD PVC 4Ksc Pipe : 310m
	Infiltration well no 5	90mm OD PVC 4Ksc Pipe : 500 m
d	Collection Sump at Head works	Submersible Pumpset 826 lpm x 48m head with 1 No standby
e	Pump room at Head works	4m x 4m
f	Collection Sump at Head works	55000 lit - 1no
g	Pumping main from Collection sump	160mm PVC 6 Ksc Pipe : 4341m
		150mm DI K7 Pipe 600m
		140mm PVC 6 Ksc Pipe 3057m
		110mm PVC 6 Ksc Pipe 2103m
		110mm PVC 4 Ksc Pipe 4052m
		90mm PVC 6 Ksc Pipe 120m
		75mm PVC 6 Ksc Pipe 1165m
		75mm PVC 4 Ksc Pipe 30m
		63mm PVC 4 Ksc Pipe 1825m
		Total 17293m
h	Scour Valve	7 Nos
2	Group Sump	
i	Annapooraninagar	
a	Capacity of Sump	50000 lit
b	No.of Habitation covered	10
c	Population Covered	3877
d	Pumpset	Submersible Pumpset 237 lpm x 25m head with stand bye 1 No
e	Pumping main and Branch Pumping main for Group sump	110mm PVC 4 Ksc Pipe : 10m
		90mm PVC 4 Ksc Pipe 507m
		75mm PVC 4 Ksc Pipe 608m
		63mm PVC 4 Ksc Pipe 7042m
		Total 8167m

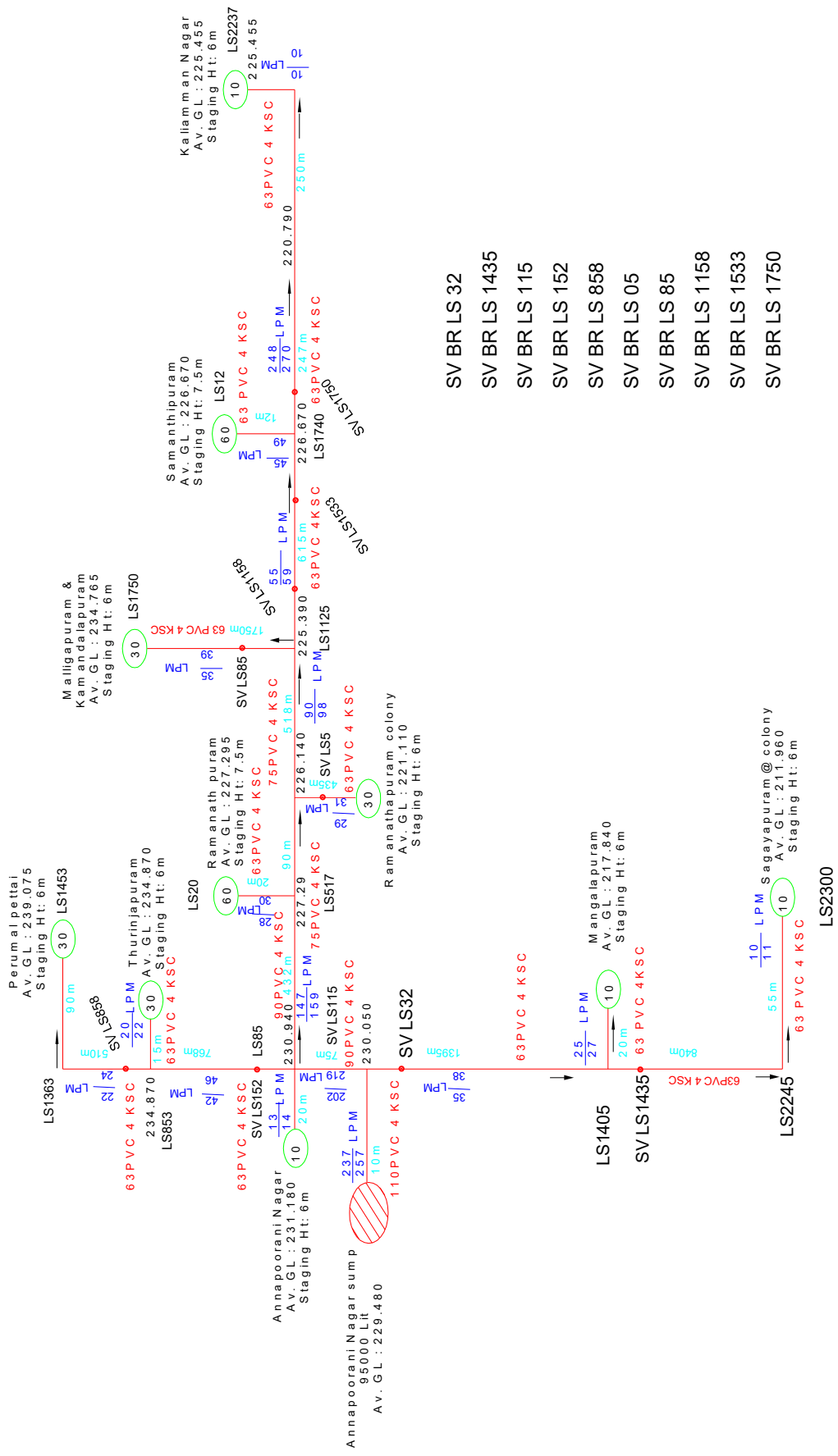
f	Scour Valve	1 No
g	Sliuce valve	9 Nos
ii	Devankulam	
a	Capacity of Sump	50000 lit
b	No.of Habitation covered	8
c	Population Covered	3554
d	Pumpset	Submersible Pumpset 238 lpm x 20m head 1 No with standbye
e	Pumping main and Branch Pumping main for Group sump	90mm PVC 4 Ksc Pipe : 495m
		75mm PVC 4 Ksc Pipe : 4365m
		63mm PVC 4 Ksc Pipe : 3525m
		Total 8385m
f	Scour Valve	2 No
g	Sliuce valve	6 Nos
iii	Padavedu	
a	Capacity of Sump	55000 lit
b	No.of Habitation covered	10
c	Population Covered	4285
d	Pumpset	Submersible Pumpset 266 lpm x 49m head with standbye
e	Pumping main and Branch Pumping main for Group sump	110mm PVC 6 Ksc Pipe : 72m
		90mm PVC 6 Ksc Pipe : 1550m
		75mm PVC 6 Ksc Pipe : 480m
		63mm PVC 6 Ksc Pipe : 2160m
		63mm PVC 4 Ksc Pipe : 1880m
		50mm PVC 6 Ksc Pipe : 3097m
		Total 9239m
f	Scour Valve	2 No
g	Sliuce valve	10 Nos
iv	Kalasamudram	
a	Capacity of Sump	45000 lit
b	No.of Habitation covered	12
c	Population Covered	3809
d	Pumpset	Submersible Pumpset 226 lpm x 38m head with standbye

e	Pumping main and Branch Pumping main for Group sump	90mm PVC 4 Ksc Pipe : 10m
		75mm PVC 4 Ksc Pipe : 865m
		63mm PVC 4 Ksc Pipe : 5960m
		50mm PVC 6 Ksc Pipe : 684m
		Total 7519m
f	Scour Valve	2 No
g	Sliuce valve	11 Nos
v	Kuppam	
a	Capacity of Sump	25000 lit
b	No.of Habitation covered	7
c	Population Covered	1921
d	Pumpset	Submersible Pumpset 122 lpm x 50m head with standbye
e	Pumping main and Branch Pumping main for Group sump	75mm PVC 6 Ksc Pipe : 20m
		63mm PVC 6 Ksc Pipe : 1090m
		63mm PVC 4 Ksc Pipe : 2058m
		50mm PVC 6 Ksc Pipe : 5310m
		Total 8478m
f	Scour Valve	2 Nos
g	Sliuce valve	7 Nos

PLAN SHOWING LOCATIONS OF INFILTRATION WELLS, SUMPS & ALIGNMENT OF PUMPING MAIN



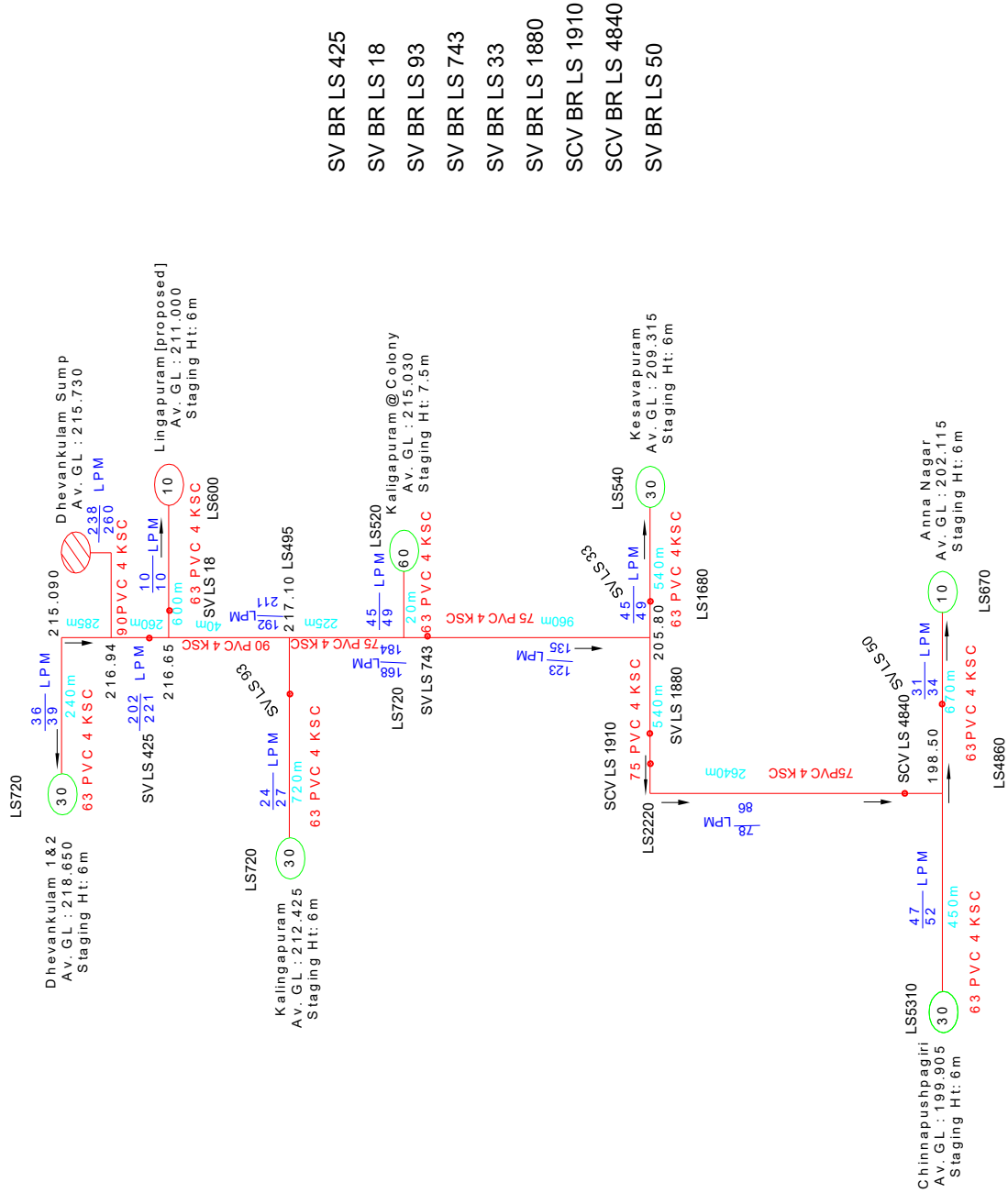
CWSS TO PADAVEDU & 46 OTHER HABITATIONS IN POLUR UNION IN TIRUVANNAMALAI DISTRICT FLOW DIAGRAM - GROUP SUMP @ ANNAPOORANINAGAR



- SV BR LS 32
- SV BR LS 1435
- SV BR LS 115
- SV BR LS 152
- SV BR LS 858
- SV BR LS 05
- SV BR LS 85
- SV BR LS 1158
- SV BR LS 1533
- SV BR LS 1750

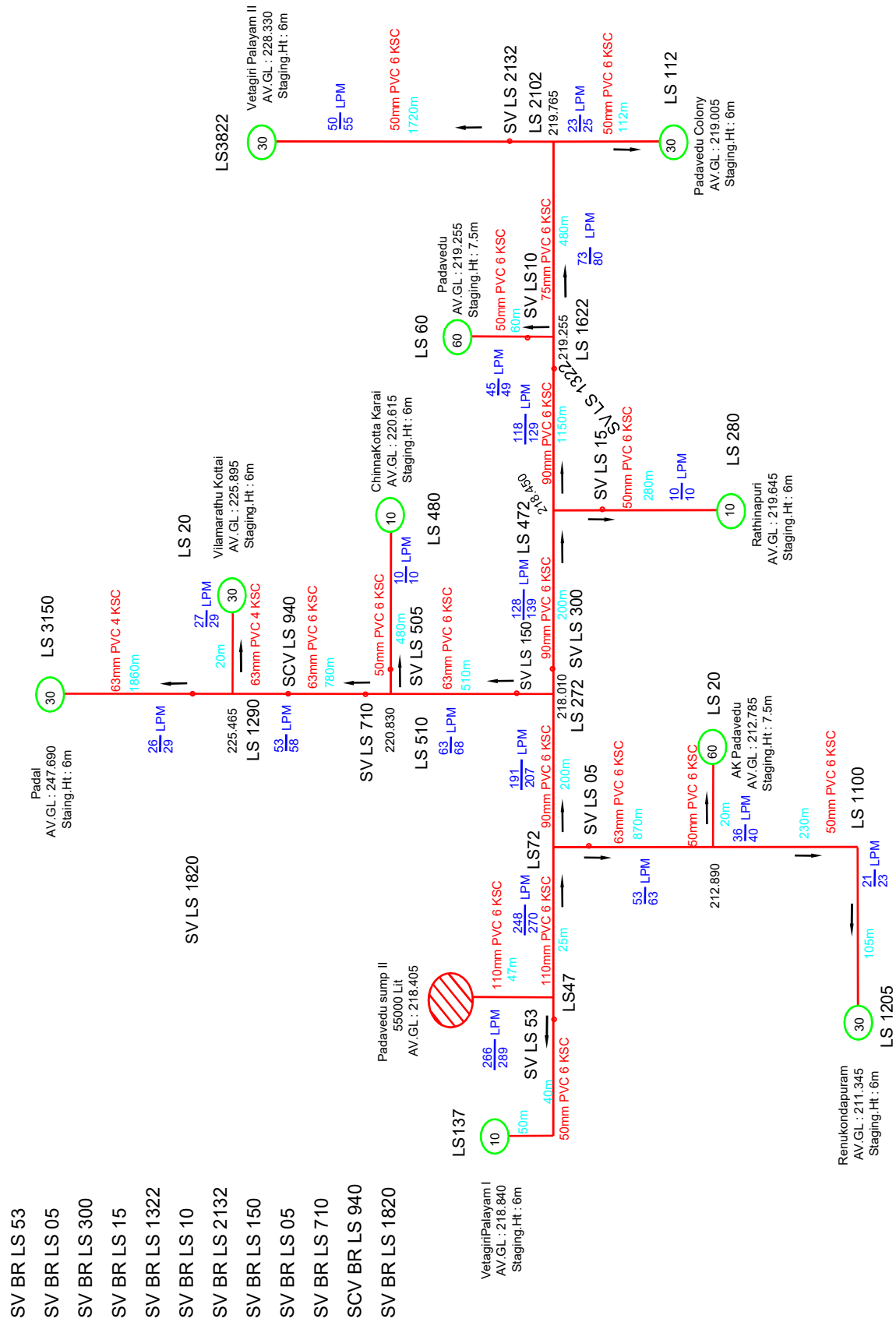
Reference	
—	Existing
—	Proposed

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FLOW DIAGRAM - GROUP SUMP @ DEVANKULAM

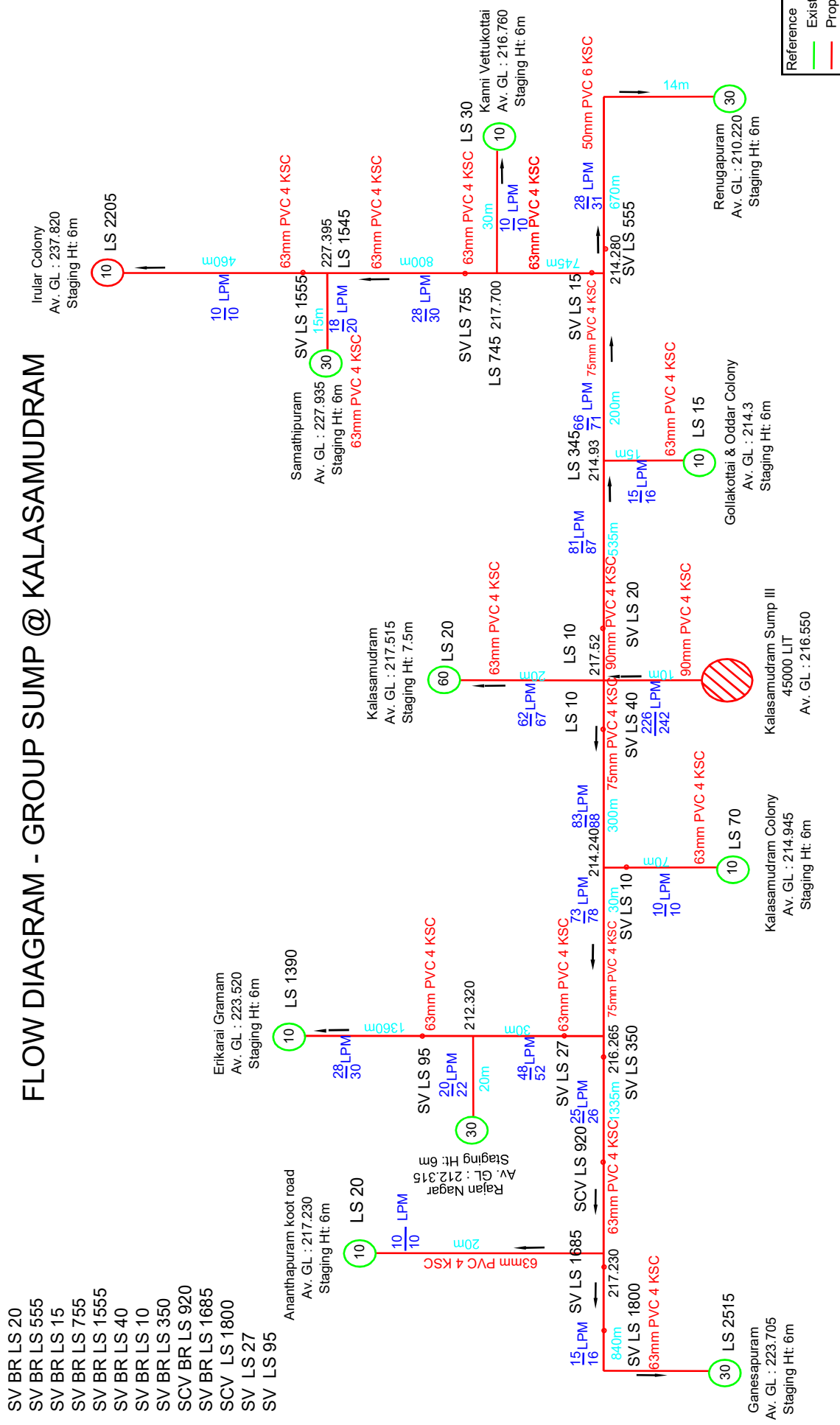


- SV BR LS 425
- SV BR LS 18
- SV BR LS 93
- SV BR LS 743
- SV BR LS 33
- SV BR LS 1880
- SCV BR LS 1910
- SCV BR LS 4840
- SV BR LS 50

FLOW DIAGRAM - GROUP SUMP @ PADAVEDU



FLOW DIAGRAM - GROUP SUMP @ KALASAMUDRAM



FLOW DIAGRAM - GROUP SUMP @ KUPPAM

