

No. 752.

Read the following:—

No. 818.

MEMORANDUM.

THE return for the half-year ended 30th June of tanks effecting the Madras Railway in the North Arcot District is for a first return very creditable complete, and the entries appear to be fairly accurate. If carefully revised for the next half-year, it will probably be all that is needed, first, as a record of the required arrangements for the safety of the tanks, and, secondly, as affording information as to what is being done to make them safe.

2. It may be noticed that column 8 should never be blank, for even if no masonry weir be required, arrangements in substitution of such a work are always necessary, and what these are can be noticed in column 14. Similarly column 10 should give the difference between columns 8 and 9 (2nd part). Column 13 has been fairly filled in, but in some instances apparently the remarks should have stated that estimates have been submitted for sanction with particulars as to when they would probably be carried out.

3. In this district the adequate treatment of tanks has engaged much attention during the past two years or so, and numerous carefully-prepared estimates have been submitted for sanction accompanied by all the information necessary to allow of the arrangements being understood.

4. With regard to the remark in column 14 against the Avelalah tank, the surplus of which crosses the new line at 80-19, it may be noticed that it is not clear why the construction of a weir should injure either the spring channels mentioned or private property if the discharge be over the ground over which it now passes, for a weir would regulate the discharge and the depth of out-flow, whereas cuts for the relief of tanks are not easily manageable, and are apt to become deep and to discharge water unnecessarily.

OOTACAMUND,
22nd July 1875.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Offg. Chief Engineer.

Proceedings of the Madras Government, Public Works Department,
27th July 1875.

Line.	District.	Line of Railway.	Point at which Surplus crosses.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet a Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Surplus Weirs.		Additional Length of Surplus Weir required.	Height of Top of Bund Above Weir Crest.		Approximate Area of Tank.		Special Remarks.	General Remarks.
									Total.	Effective.		Top of Dam.	Capacity when full.				
40			20	No. 1 or Wallajah Range.	1.5	761.3	1.5	...	121	121	...	5	...	S. yds. 2,100	O. yds. 4,200	.....	Tank in thorough order, just repaired; surpluses over gravelly soil at west end.
49			13	Assamundoor tank	1.12	444.2	1.5	...	74	74	...	4.5	...	1,800	1,680	.....	Surpluses over hard soil on the east.
49			2	Minnel large tank	7	1,536.6	1.5	244	...	244	...	6	...	6,000	15,000	.....	This tank lies to the right of the line at 4th mile; surpluses over high ground at east end into Nagavada channel.
43			2	Do. small do.	1	373	1.5	60	...	60	...	4.5	...	2,400	3,600	.....	Is under repair; surpluses into Vellacalvo or Peromoonjee channel.
49			13	Anavertiganpet tank.	1	378	1.5	60	...	...	...	4.5	...	2,400	3,600	.....	Do. do.; channel-fod; is said never to have been over full; is however to be furnished with a weir as entered.
53			40	Kalambody tank	1.12	464.2	1.5	74	...	74	...	4.5	...	1,600	2,400	.....	Surpluses into Kalambody tank.
52			40	Koonundoor tank	2	1,020	1.5	...	160	160	...	6	...	8,800	17,600	.....	Fund in good order; surpluses into Vellacalvo.
52			40	Nooloor tank	1	378	1.5	60	...	60	...	4.5	...	1,800	2,700	.....	Tank in thorough order; surpluses across 51 mile into Mecalthoor tank.
53			40	Palaipollem tank	1.5	673	1.5	...	110	110	...	4.5	...	2,640	5,250	.....	Surpluses over hard soil at east end into the above-named tank.
53			40	Thaligal tank	1	578	1.5	...	63	63	...	6	...	1,800	3,600	.....	In thorough order; surpluses into Koonundoor tank and Peromoonjee channel.
																	In thorough order; surpluses into Vellacalvo.

Proceedings of the Madras Government, Public Works Department,
27th July 1875.

Line.	District.	Line of Railway.	Point at which Surplus crosses.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet a Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Surplus Weirs.		Additional Length of Surplus Weir required.	Height of Top of Bund Above Weir Crest.		Approximate Area of Tank.		Special Remarks.	General Remarks.
									Total.	Effective.		Top of Dam.	Capacity when full.				
52	North		40	Thuppoor tank	1	378	1.5	...	69	69	...	4.5	...	1,800	3,600	.....	Channel-fod; surpluses into Peromoonjee tank.
61			3	Thalungki tank	1.5	499.3	1.5	...	111	11	...	4.5	...	3,780	7,560	.....	In good order; surpluses into Vaugoor tank which surpluses into Myndarady channel.
63			4	Valam tank	2	719.95	2	...	101	101	...	6	...	3,520	7,040	.....	In good order; surpluses into Marudalam and Iram tank.
Note.—There are some few tanks eastward which in case of breaching would affect the Peromoonjee channel or Corielliar. The channel begins at Peromoonjee southern surplus weir; waters several tanks; receives again their surplus; and the drainage of the valley has nine dams on it; runs nearly due east to Thuppoor channel; then takes a southerly direction; crosses the South-West Line and falls into the Corielliar, two miles below Nemise. There are also some private tanks—Coopam, Thendalam, and others, but none breached during the last three years.																	
71	North		16	Komparajapuram tank.	2	1,404	2	...	143	140	...	...	...	813,110	1,084,160	.....	This is the terminal tank of the series. It also receives supply from Poiney river through a channel, and it is at about the head of this channel that the drainage of about 5 square miles, independent of that entered in column 5, finds its way. It is not necessary to provide any additional length of weir for the discharge of this surplus, as a head sluice built in the channel will divert the drainage into the river and will enable to regulate the supply to the tank. There are no escape weirs built (permanent or temporary); the bund is merely cut up to a length of 60 feet at both ends for the discharge of surplus.
72			...	Fakeer tangle tank	14	884	2	93	...	...	93	31	...	144,000	112,000	.....	The same remarks as above is applicable to this tank as regard escape weirs. This is a very insignificant tank and not worth repairing.
...			...	Volary tank	1	...	...	...	...	...	...	3	...	57,600	35,600	.....	No calingulah is provided. The bund is cut at the end during monsoons for the discharge of surplus.
...			...	Sadar tank or tangle	14	...	...	...	...	...	...	3	...	102,400	45,511	.....	Besides 72 feet permanent calingulah this tank has a cody 72 feet long; the whole length of the cody and calingulah is now effective.
73			13	Sumbroyanellore tank.	14	884	2	129	73	72	57	6	...	64,000	720,000	.....	This tank receives also the surplus of Yarruthangal tank through its east calingulah which is 36 feet long. The intended head of water even on the crest of calingulah being 2 feet, the same length of 86 feet has also been added to the length required for the discharge of the flood of its own catchment basin.

Return of Tanks affecting the Lines of Railway in the North Arcot District for the half-year ended 30th June 1875. — (Continued.)

... in the North Arcot District for the half-year ended 30th June 1875. — (Continued.)

District.	Line of Railway.	Point at which Section crosses.		Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet a Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Calingulahs and Surplus Weirs.		Additional Length of Surplus Weir required.	Height of Top of Bund Above Weir Crest.		Approximate or Actual.		Special Remarks.	General Remarks.
		Miles.	Chains.						Total.	Effective.		Weir Crest.	Top of Dam.	Area of Tank.	Capacity when full.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14				
No. 2 or Chittoor Range. — (Continued)	74 and 75	1	...	13	3,732	2½	281	120	100	181	5	5	S. yds. 524,800 C. yds. 524,800	...	...	...	This is the terminal tank of the series containing 16 tanks. The repairs of the tank will be taken in the ensuing official year. This tank receives its supply from Ponnai river through the western channel which ends with the tank.
	...	...	...	13	3,537	2	372	144	144	239	2	2	419,200	534,000	...	...	Bund above the retirement level in most places much cut up. Retirement out of order in several places. Tank band in bad order. Estimate for its requisite repairs is under preparation.
	...	...	4	553	2	59	39	39	20	4	4	217,000	...	...	...	...	The present calingulah is only a temporary one built of dry, rough stone, and in bad order.
	...	...	1	675	2½	41	55½	46	...	6½	6½	691,200	1,035,500	...	...	...	This tank receives its supply partly from the branch valley one square mile and partly from Kandyadoo tank of the main valley through a channel, its surplus runs into Yereenthargal tank. A road dam, 35 feet long, serves as a cody to this tank. There is another cody or temporary calingulah at the channel which connects this tank with Kandipedoo. This is entirely in bad order, and requires rebuilding.
	...	...	9½	3,024	2	319	50	42	277	4	4	755,200	944,000	...	...	...	There is a cody at the north end of this tank; it is extended to any length required for the discharge

Line — (Continued)

(Continued.)

Proceedings of the Madras Government, Public Works Department, 27th July 1875.

level. Early measures will be taken for its usual requirements being carried out in the ensuing official year.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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(Continued.)

1973.

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Return of Tanks affecting the Lines of Railway in the North Arcot District for the half-year ended 30th June 1875.—(Continued.)

Proceedings of the Madras Government, Public Works Department,
27th July 1875.

Proceedings of the Madras Government, Public Works Department,
27th July 1875.

Station	Line of Railway	Point at which surplus water escapes	Name of Tank	Area of (Settlement) Basin, Square Miles	Estimated Maximum Flood Discharge, (Cubic Feet a Second)	Intended Maximum Depth of Water, (Feet of Burpline Weir)	Length of Burpline Weir required	Total Length	Level of existing Calingulah, (Feet above Mean Sea Level)	Additional Length of Burpline Weir required	Area of Basin, (Square Miles)	Top of Dam	Area of Tank	Capacity when full	Special Remarks	General Remarks
82/ 11 and 89/ 12	North Arcot	South-West	Vapungunary tank	4	1,701	2	179	180	180	...	4	...	582,400	455,333	Bund in good order at one place. The rear slope of the bund to a length of 7 yards is much slipped.	Has no calingulah, and the surplus discharged by cuts at the end of bund. The necessary estimate will be prepared.
93/ 7			China Cooppan tank	1	425	2	45	...	...	45	3	...	371,040	180,693	The bund in some places is too weak.	Owing to the insufficiency of the length of the existing calingulah, the bund has been cut at one end to a length of 193 feet for the discharge of surplus.
94/ 9 and 95/ 6			Alathoor tank...	2	1,066	3	113	50	46	67	3	...	909,920	1,061,573	Bund in want of slight repairs.	.....
96/ 14			Ammanacoppam tank	1	675	2	71	...	...	71	4	...	231,680	195,751	Bund in good order. A calingulah is much wanted.	The catchment basin of this terminal tank of drainage embraces four other tanks. It also receives its supply from Gudiam river through a channel for which a regulating head-sluice is much needed. The calingulahs being provided with vents in them, the water never found to rise much over the crest as the vents were always kept open during the periods of flood and closed when the latter sufficiently subsided.
98/ 16			Cherooveny	6	2,217	3	128	95	95	83	6	...	1,664,960	1,144,924	Bund in good order	The tank receives its supply from a branch valley and drains partly into Gudiam river and partly into Cherooveny tank. Owing to the insufficiency of the length of escape, the bund is cut at both ends to a length of 50 feet for the discharge of surplus.
			Agraharam tank	1 1/2	884	2	93	30	30	63	2 1/2	...	850,400	260,265	Bund in some places low and in want of repair.	This tank receives its supply from a branch valley and drains into Cherooveny tank; has no permanent calingulah.
			Peerumbady tank	1	425	2	45	...	...	45	3 1/2	...	184,400	14,933	Do. in want of slight repair.	Measures will be taken to prepare estimate for lowering the maximum depth of water over the crest from 3 to 2 feet and for lengthening the weir to the required discharge.
			Yerthangal do.	2	1,066	3	61	61	51	10	4	...	425,920	567,693	Do. good; revetment in most places out of order.	With this tank ends the main valley which drains into Cherooveny tank.
			Guffoorbad do.	1	425	2 1/2	39	37 1/2	37 1/2	...	3	...	125,840	125,840	Bund in some places low	No calingulah cuts at each end of bund for the discharge of surplus. The necessary estimate will be prepared.
99/ 10			Alathoor Ootary tank.	1	675	2	71	...	...	71	3	...	339,200	339,200	Do. in bad order	

*Proceedings of the Madras Government, Public Works Department,
27th July 1875.*

Acrol. = (Cnidaria)

No.	Name of tank.	Capacity in acres.	Length in feet.	Breadth in feet.	Depth in feet.	Area in acres.	Volume in cu. ft.	Remarks.
83	Kotramungalam tank.	1.5	424.5	1.5	115	115	4,989	9,978 Do. do. ...
83	Thootyackam large tank.	1.5	415.8	1.5	66	66	4,840	8,680 Do. do. ...
83	Do. small tank.	1	252	1.5	40	40	1,500	2,250 Do. do. ...
Note.—The capacity of the tanks are given by the lengths of bund by average (guessed) breadth and depth.								
No. 1 or Walajah Range.								
10	Keelvembacham tank.	1.5	453.66	1.5	72	72	6,300	9,900 Did not breach; weir lately repaired.
10	Teroomalpoor tank.	1	378	1.5	80	80	6,300	9,450 Has not breached; weir has been estimated for.
9	Nelvoy tank.	1	378	1.5	60	60	6,150	6,200 Weir to be built; none before.
9	Puloor large tank.	1.5	453.6	1.5	72	72	6,600	9,900 Weir built ...
9	Do. Poonthary tank.	2	667.8	1.5	108	108	6,000	9,000 Weirs built ...
8	Do. small tank.	1.5	478.8	1.5	76	76	2,100	3,050
8	Sarenthamungalum tank.	1.5	453.6	1.5	60	60	1,800	2,700
7	Punavarani tank.	1	453.6	1.5	60	60	3,400	5,100
7	Malay tank.	1.5	453.6	1.5	72	72	2,200	3,300
3	Keelvetty tank.	1.5	584	2	60	60	3,200	6,400
3	Velithangipuram tank.	1.5	584	2	120	120	2,250	3,375
3	Keelvetty large tank.	3	1,384	2	90	90	4,000	8,000
3	Malanthoray tank.	1.5	430	1.5	63	63	2,100	2,625
2	Keelanthoray tank.	1.25	1017.6	2.5	48	48	3,000	4,500 Breached in 1872 ...
2	Davadanam do.	1.25	499.8	2	68	68	3,210	3,320 Do. do. ...
2	Nagavedu do.	2	639.3	1.5	131	131	5,180	10,360 Two weirs, 101+30=131 ...
2	Peromoochees tank.	1	378	1.5	36	36	1,850	1,925
1	Ammanoor Puntla-nary tank.	1.25	539.3	1.5	66	66	1,350	2,025 Weir to be provided ...
1	Ammanoor Panpanary tank.	1	497.2	2.5	58	58	3,520	5,280 This tank never breached; but surplus at their ends.
1	Perommanary do.	1	378	1.5	60	60	2,560	3,840 Do. do. ...

(Signed) W. B. LEGGATT, A.I.C.E.,
Offg. District Engineer, North Arcot.

Return of Tanks affecting the Lines of Railways in the North Arcot District for the half-year ended 30th June 1875.—(Concluded.)

Proceedings of the Madras Government, Public Works Department,
27th July 1875.

Line	District	Line of Railway	Point at which Surplus crosses	Names of Tanks	Area of Catchment Basin, Square Miles	Estimated Maximum Flood Discharge, Cubic Feet a Second	Intended Maximum Depth of Water on Crest of Surplus Weir	Length of Surplus Weir required	Length of Existing Calings and Surplus Weirs		Additional Length of Surplus Weir required	Height of Top of Bund Above Weir Crest	Area of Tank	Capacity when full	Special Remarks	General Remarks
									Total	Effective						
S. W. Line— (Contd)	No. 2 or West Valley— (Concluded.)	Thottan Cootay Chendathoor tank	115	No. 3 or Vellore Range. Periyancoppam Chet- teri.	10	2,610	2	112	62	62	106	4	10,000	11,000	S. Yds. 294,800 64,000	C. Yds. 159,255 25,411
S. W. Line— (Contd)	No. 1 or Walajah Range.	Avelah tank	60	No. 1 or Walajah Range.	3	1,386	1.5	320	...	...	...	4.5	6,000	12,200	6,000	The line was never injured, there being ample water- way to bridges spanning the Sornamooky, &c.
S. W. Line— (Contd)	No. 1 or Walajah Range.	Teroopathy tank	80	No. 1 or Walajah Range.	1.5	567	1.5	...	80	90	...	6	8,350	8,350	8,350	The line was never injured, there being ample water- way to bridges spanning the Sornamooky, &c.

Area—(Concluded)

Proceedings of the Madras Government, Public Works Department,
27th July 1875.

No.	North-W.	Names of Tanks	Area of Catchment Basin, Square Miles	Estimated Maximum Flood Discharge, Cubic Feet a Second	Intended Maximum Depth of Water on Crest of Surplus Weir	Length of Surplus Weir required	Length of Existing Calings and Surplus Weirs		Additional Length of Surplus Weir required	Height of Top of Bund Above Weir Crest	Area of Tank	Capacity when full	Special Remarks	General Remarks
							Total	Effective						
No. 1 or Walajah Range.	No. 1 or Walajah Range.	Kotramungalam tank.	1.5	424.5	1.5	...	72	72	...	4.5	4,989	9,976	Do.	Sornamooky. Just put into thorough order, surpluses into Iscooka Vankah. Lately repaired; surpluses into Iscooka Vankah. Do.; he between the line.
No. 1 or Walajah Range.	No. 1 or Walajah Range.	Keelembacham tank.	1.5	453.66	1.5	...	72	72	...	4.5	6,500	9,900	Do.	Lies above Teroomalpoor. Lately repaired. Bund in good order; surplus on north flank; falls into Govinda- vady channel. Do.; surpluses over high ground into stream at south flank. Just put into thorough order; receives surplus of the foregoing. Has been taken on hand. Being repaired. In good condition; surpluses into Keelembacham tank now under repair. Now under repair. Surpluses into Keelembacham large tank. In thorough repair; surpluses into a branch of the Cortelliar. This tank has also an escape over hard soil at the south end. Bund in good order; surpluses over high ground as well as at south end into Keelanthoray tank. Bund in good order; surpluses into Davadanam tank. Bund not in good order. Revenue Channel-fed. The tank is in thorough order. Bund in good order; surpluses into Velayuthy tank. Bund in good order. This tank bund forms the road to Nagavodu from Arcot; sur- pluses over road dam into the above-mentioned tank. Bund in good order.
No. 1 or Walajah Range.	No. 1 or Walajah Range.	Teroomalpoor tank.	1	878	1.5	...	60	60	...	4.5	6,300	9,450	Do.	Lies above Teroomalpoor. Lately repaired. Bund in good order; surplus on north flank; falls into Govinda- vady channel. Do.; surpluses over high ground into stream at south flank. Just put into thorough order; receives surplus of the foregoing. Has been taken on hand. Being repaired. In good condition; surpluses into Keelembacham tank now under repair. Now under repair. Surpluses into Keelembacham large tank. In thorough repair; surpluses into a branch of the Cortelliar. This tank has also an escape over hard soil at the south end. Bund in good order; surpluses over high ground as well as at south end into Keelanthoray tank. Bund in good order; surpluses into Davadanam tank. Bund not in good order. Revenue Channel-fed. The tank is in thorough order. Bund in good order; surpluses into Velayuthy tank. Bund in good order. This tank bund forms the road to Nagavodu from Arcot; sur- pluses over road dam into the above-mentioned tank. Bund in good order.
No. 1 or Walajah Range.	No. 1 or Walajah Range.	Nellore tank.	1	378	1.5	...	60	60	...	4.5	6,150	6,200	Do.	Lies above Teroomalpoor. Lately repaired. Bund in good order; surplus on north flank; falls into Govinda- vady channel. Do.; surpluses over high ground into stream at south flank. Just put into thorough order; receives surplus of the foregoing. Has been taken on hand. Being repaired. In good condition; surpluses into Keelembacham tank now under repair. Now under repair. Surpluses into Keelembacham large tank. In thorough repair; surpluses into a branch of the Cortelliar. This tank has also an escape over hard soil at the south end. Bund in good order; surpluses over high ground as well as at south end into Keelanthoray tank. Bund in good order; surpluses into Davadanam tank. Bund not in good order. Revenue Channel-fed. The tank is in thorough order. Bund in good order; surpluses into Velayuthy tank. Bund in good order. This tank bund forms the road to Nagavodu from Arcot; sur- pluses over road dam into the above-mentioned tank. Bund in good order.
No. 1 or Walajah Range.	No. 1 or Walajah Range.	Puloor large tank.	1.5	453.6	1.5	...	72	72	...	4.5	6,600	9,900	Do.	Lies above Teroomalpoor. Lately repaired. Bund in good order; surplus on north flank; falls into Govinda- vady channel. Do.; surpluses over high ground into stream at south flank. Just put into thorough order; receives surplus of the foregoing. Has been taken on hand. Being repaired. In good condition; surpluses into Keelembacham tank now under repair. Now under repair. Surpluses into Keelembacham large tank. In thorough repair; surpluses into a branch of the Cortelliar. This tank has also an escape over hard soil at the south end. Bund in good order; surpluses over high ground as well as at south end into Keelanthoray tank. Bund in good order; surpluses into Davadanam tank. Bund not in good order. Revenue Channel-fed. The tank is in thorough order. Bund in good order; surpluses into Velayuthy tank. Bund in good order. This tank bund forms the road to Nagavodu from Arcot; sur- pluses over road dam into the above-mentioned tank. Bund in good order.
No. 1 or Walajah Range.	No. 1 or Walajah Range.	Do. Poothary tank.	2	667.8	1.5	...	106	106	...	4.5	6,000	9,000	Do.	Lies above Teroomalpoor. Lately repaired. Bund in good order; surplus on north flank; falls into Govinda- vady channel. Do.; surpluses over high ground into stream at south flank. Just put into thorough order; receives surplus of the foregoing. Has been taken on hand. Being repaired. In good condition; surpluses into Keelembacham tank now under repair. Now under repair. Surpluses into Keelembacham large tank. In thorough repair; surpluses into a branch of the Cortelliar. This tank has also an escape over hard soil at the south end. Bund in good order; surpluses over high ground as well as at south end into Keelanthoray tank. Bund in good order; surpluses into Davadanam tank. Bund not in good order. Revenue Channel-fed. The tank is in thorough order. Bund in good order; surpluses into

*Proceedings of the Madras Government, Public Works Department,
27th July 1875.*

No. 753.

ORDER THEREON, 27th July 1875, No. 2,175.

IRRIGATION, No. 70.

RECORDED with the remark that the Government are gratified to learn that so much attention has been paid to tanks in the North Arcot District, and that so many of them are reported to be in good order, including sufficient means of disposing of surplus.

(True Extract.)

(Signed) J. O. HASTED, Major, R.E.,
Officiating Joint Secretary to Government.

To the Chief Engineer for Irrigation.
.. District Engineer, North Arcot.
.. Consulting Engineer for Railways.

Handwritten notes in Tamil script, likely a continuation of the official record or a separate communication related to the irrigation matters discussed in the order.

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Names of Plants.

1. Area of Galathea (approx)
 2. Total maximum blood
 3. Total length of each foot as found
 4. Interdial maximum depth of water
 5. Length of surplus water required.

Wain Coast

Flat & am pines

Area of Tank.

Capacity when full

Sample of it of
kind above
Approximate or
Actual

Area of Tank.

Capacity when full

Special Remarks.

General Remarks.

Quand in thorough order just repaired supplies
our gravely rail at West end.

fresh lutes over hard soil on the east.
The lane lies to the right of the road at 48.
mild purpluses over high ground at road end
into diagonal channel.

for minor injuries purchased into
at Veterinary and Pharmacy.

④⑤⑥ Channel bed is paid means to have been over full, is however to be furnished with a weir at entrance.

③ purchased into the Lombard bank.

Spurred winged color purple above into Walla Walla Conf.
 Starts in the range color purple above above 51 miles
 into the Walla Walla range.

—young ones were kept pair at each end into the
old ones named tanks.

For through order, purchases into Edgemont
land and Deming's channel.

Plumell fed, purple into *Savannas* tank.

transform any surplus into foreign bank notes
surplus into discretionary demand.

the good roads pumpkins are into the roadways
from tanks.

Deermeager Channel or Potlatch. The channel begins at Deermeager
drainage of the valley has 9 ponds in it, runs nearly due east to Shupper Channel
about 2 miles below Combs. There are also pond private lands between Deermeager

Notes. I have and found few lands and animals which are passing. Breeding birds
Great Horned Owl (one seen), and five powerful lands pass over the pond.
When lakes are particularly disturbed, swans like Great White and small
and others but none breed here during the last three years.

North Street
C. White, Pres.

George C. White, Pres.

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2210 2220 2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2340 2350 2360 2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2510 2520 2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640 2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2760 2770 2780 2790 2800 2810 2820 2830 2840 2850 2860 2870 2880 2890 2900 2910 2920 2930 2940 2950 2960 2970 2980 2990 3000 3010 3020 3030 3040 3050 3060 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190 3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3610 3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 3750 3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3880 3890 3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4040 4050 4060 4070 4080 4090 4100 4110 4120 4130 4140 4150 4160 4170 4180 4190 4200 4210 4220 4230 4240 4250 4260 4270 4280 4290 4300 4310 4320 4330 4340 4350 4360 4370 4380 4390 4400 4410 4420 4430 4440 4450 4460 4470 4480 4490 4500 4510 4520 4530 4540 4550 4560 4570 4580 4590 4600 4610 4620 4630 4640 4650 4660 4670 4680 4690 4700 4710 4720 4730 4740 4750 4760 4770 4780 4790 4800 4810 4820 4830 4840 4850 4860 4870 4880 4890 4900 4910 4920 4930 4940 4950 4960 4970 4980 4990 5000 5010 5020 5030 5040 5050 5060 5070 5080 5090 5100 5110 5120 5130 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 5270 5280 5290 5300 5310 5320 5330 5340 5350 5360 5370 5380 5390 5400 5410 5420 5430 5440 5450 5460 5470 5480 5490 5500 5510 5520 5530 5540 5550 5560 5570 5580 5590 5600 5610 5620 5630 5640 5650 5660 5670 5680 5690 5700 5710 5720 5730 5740 5750 5760 5770 5780 5790 5800 5810 5820 5830 5840 5850 5860 5870 5880 5890 5900 5910 5920 5930 5940 5950 5960 5970 5980 5990 6000 6010 6020 6030 6040 6050 6060 6070 6080 6090 6100 6110 6120 6130 6140 6150 6160 6170 6180 6190 6200 6210 6220 6230 6240 6250 6260 6270 6280 6290 6300 6310 6320 6330 6340 6350 6360 6370 6380 6390 6400 6410 6420 6430 6440 6450 6460 6470 6480 6490 6500 6510 6520 6530 6540 6550 6560 6570 6580 6590 6600 6610 6620 6630 6640 6650 6660 6670 6680 6690 6700 6710 6720 6730 6740 6750 6760 6770 6780 6790 6800 6810 6820 6830 6840 6850 6860 6870 6880 6890 6900 6910 6920 6930 6940 6950 6960 6970 6980 6990 7000 7010 7020 7030 7040 7050 7060 7070 7080 7090 7100 7110 7120 7130 7140 7150 7160 7170 7180 7190 7200 7210 7220 7230 7240 7250 7260 7270 7280 7290 7300 7310 7320 7330 7340 7350 7360 7370 7380 7390 7400 7410 7420 7430 7440 7450 7460 7470 7480 7490 7500 7510 7520 7530 7540 7550 7560 7570 7580 7590 7600 7610 7620 7630 7640 7650 7660 7670 7680 7690 7700 7710 7720 7730 7740 7750 7760 7770 7780 7790 7800 7810 7820 7830 7840 7850 7860 7870 7880 7890 7900 7910 7920 7930 7940 7950 7960 7970 7980 7990 8000 8010 8020 8030 8040 8050 8060 8070 8080 8090 8100 8110 8120 8130 8140 8150 8160 8170 8180 8190 8200 8210 8220 8230 8240 8250 8260 8270 8280 8290 8300 8310 8320 8330 8340 8350 8360 8370 8380 8390 8400 84

47 - Emerald Bay Inn 7 1236 15 244 - 244 - 6

49 : 57 pm 9:15 - 60 - 60 - 4:5

49	12	1	378-1.5	60	4.5
50	40	15	442-1.5	74	4.5
51	40	15	442-1.5	74	4.5
52	40	15	442-1.5	74	4.5

52 40 *Chlorophyll* — 1 3/8 1.5 60 - 60 - 40

52 40 *CP* *interpretation* *level* — 15 679 15 • 110 118 • 4

52	40	18	15	60
52	40	18	15	60

61 ♀ ♂ *Hindogly lund* — 1.5 eggs 1.5 . III III .

69 4 *Chloranthus* 2 7995 2 . 101 101 .

2100 4230

1,300 1,680

6,000 15,000

2,400 3,600

2,400 3,600

8,800 17,600.

1800 2700

2,040 5,280

1,9000	3,0000
1,8000	2,6000

3780
7560

620
7,040.

Return of Banks affecting the Series of Railway in the North Street District for the 36th year ended 30th June 1876 prepared with reference to G. P. O. No. 3210 dated 13th November 1874.

District
 Lines of Railway
 Miles
 Chains
 Point at which surplus crosses.

Names of Banks.

Area of catchment basin
 Estimated maximum flood
 Discharge Public feet or second
 Interstad maximum depth of water
 on crest of surplus weir
 Length of surplus weir required.
 Total Length of existing
 Effective Culvingulaks and
 Surplus weirs.
 Additional length of surplus
 weirs required.

Weir crest

Area of Banks.
 Capacity when full

Special Remarks.

General Remarks.

1/4 12 } 1/4 12 } 1/4 12 } 1/4 12 } 1/4 12 }
 13 37 3/2 2 1/2 281 120 100 181 5 1/2

General Bank 12 3537 2 372 144 144 228 2

General Bank 3/4 559 2 579 39 39 20 4

General Bank 1 175 23/4 44 55 1/2 46 6 1/2 3 1/2

General Bank 9 1/2 3024 2 319 50 42 277 4

524,800

Ground above the reservoir of the line is the lowest land of the line for some miles in most places much lying 16 ft above the surface of the land and up to 20 ft above the surface of the land in some places. The line is in the main a straight line and will not require any special treatment.

4,192,000

The line is in the main a straight line and will not require any special treatment. The line is in the main a straight line and will not require any special treatment.

217,600

The line is in the main a straight line and will not require any special treatment. The line is in the main a straight line and will not require any special treatment.

691,200

The line is in the main a straight line and will not require any special treatment. The line is in the main a straight line and will not require any special treatment.

755,200

The line is in the main a straight line and will not require any special treatment. The line is in the main a straight line and will not require any special treatment.

The line is in the main a straight line and will not require any special treatment. The line is in the main a straight line and will not require any special treatment.

Return of Tanks affecting the Series of Railway in the North West District for the 15th year ended 30th June 1875 prepared with reference to Q. No. 3210 dated 13th November 1874.

District
Line of Railway
Miles Paint at which
chains surplus crosses.

Names of Tanks.

Area of catchment basin
Squares Miles.
Estimated maximum flood
Discharge in cubic feet per second
Interstad maximum depth of water
in case of surplus weir
Length of surplus weir required.
Total Length of existing
Catchment and
Effective Surplus weir.
Additional length of surplus
weir required.

Wain Forest
Area of same
Length of 1/2 of
approximate or
actual

Area of Tank.
Capacity when full

Special Remarks.

General Remarks.

Chungunglam tank 1 675 2 71 4-6 38 33 4

Chungunglam tank 3/4 553 2 59 31 26 33 4 1/2 1

Chungunglam tank 8 2700 2 1/4 238 200 200 38 4 1/2

North Street
South West Line
Chungunglam tank

Chungunglam tank }
Large tank 2 1066 2 113 30 25 88 6

Small tank 1/4 . . . 25 25 . 4

Chungunglam tank 1 1/2 884 2 93 . . 93 3

323200 Chungunglam tank on the east end of the tank is across the lowest wall of which

good middle portion very wide with the main in the middle of the tank. East end requires slight repairs above.

160000 The middle portion of tank is present and is only in temporary land in the east end. One wall with the long rough stone. The tank is not much.

659200 Chungunglam tank is now under repair. The tank is now under repair. The lowest tank of one of which is in the middle of the tank.

The lowest tank of one of which is in the middle of the tank. The lowest tank of one of which is in the middle of the tank. The lowest tank of one of which is in the middle of the tank.

The lowest tank of one of which is in the middle of the tank. The lowest tank of one of which is in the middle of the tank. The lowest tank of one of which is in the middle of the tank.

123200 Chungunglam tank is now under repair. The tank is now under repair. The lowest tank of one of which is in the middle of the tank.

89600 Chungunglam tank is now under repair. The tank is now under repair. The lowest tank of one of which is in the middle of the tank.

55000 Chungunglam tank is now under repair. The tank is now under repair. The lowest tank of one of which is in the middle of the tank.

Nov. 1531
day in the
Nov 1874.

4. Names of Banks.

Wain Coast
Flat of low prairie

Special Remarks.

General Remarks

Equal good, realiment and
of equal in human places.

It extends to the palings near there is a path 51
feet long, it has also been increased to a
long 16 of 15 feet, the path there is very hard
owing to the smooth sand path, the palings
is perfectly effective & the required palings
will be provided as funds become available.
This is the least tank of another wall of the

drains into Clarkia receptum lands of the main-
stream depth of water over the great parallel bar
reduced and the subparallel longitudinal to the
mainstream forms its peculiar position between
a rocky hill and rising high ground accepts
providing for the additional length to the
present maximum depth.

good on the fault and it,
naïves born) repairs in the

compared) not does it require any of the good of which is 77 feet long and planted on a rocky soil is quite possible for the purpose.

Spent much of my time also sailing with the launch. Surfing is the largest
 pleasure ————— Lay at anchor of South Long. Examined our collections for
 the purpose and four purchases were made and
 prepared.

North Street
South West Line

21/2 or 1 1/2 m. long
 Pinnose on the dorsum
 4 1/2 1846 ♀ 105 90 75 50 8

Phallodonotus lewisi ♂ 1404 2 1/4 124 121 121 . 6

General New Lamb 1 1/2 884 2 1/4 78 77 77 .

75 9 Phases of Development
Frank _____ } 1/4

88. Sample of 1/2 of
land above
Ophioxenolite
actual

12 Ends

13

Return of Tanks affecting the Lines of Railway in the North District for the 3rd year ended 30th June 1876 prepared with reference to G. P. No. 3210 dated 13th November 1874.

District

1 Lines of Railway
2 Miles Paint at which
3 Chains surplus process.

4 Names of Tanks.

5 Area of Catchment Basin
Squares Miles.

6 Estimated maximum flood
Discharge cubic feet a second
7 Intermed maximum depth of water
in feet of surplus water

8 Length of surplus weir required.

9 Total Length of existing
10 Existing Culverts and
Surplus weirs.

11 Additional length of surplus
weir required.

12 Weir crest

13 Height of 4 ft of
land above

14 Approximate or
actual

15 Area of Tanks.

16 Capacity when full

17 Special Remarks.

18 General Remarks.

19 4. Chas. J. L. L. 3/12

20 2. Chas. J. L. L. 1 1/2 884 2 98 23 26 67 4

21 Chas. J. L. L. 3/4 553 2 37 2 37 3

22 Chas. J. L. L. 1/2 425 2 45 46 4

23 North Street
24 South West Line
25 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

26 2. Chas. J. L. L. 1/2 425 2 45 24 24 31 4 1/2

27 2. Chas. J. L. L. 1/2 425 2 1/2 32 26 26 1/2

28 3600 24300 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

29 172800 115200 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

30 192000 128000 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

31 211200 93866 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

32 432000 288000 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

33 79400 60000 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

34 96800 129066 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

35 1153400 1544533 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

36 96800 129066 2. Chas. J. L. L. 2 1066 2 113 44 37 76 4

C. 1531
 Plan of Tank affecting the line of Railway in the District for the 3rd year ended 30 June 1905
 will, forwarded to C. P. D. 3210 dated 19th November 1904.

District
 Lines of Railway
 Miles Points at which
 chains surplus crosses
 Names of Tanks.
 Area of Settlement (Acres)
 Estimated maximum flood
 Discharge (Cubic feet a second)
 Estimated maximum depth of water
 present of surplus water
 Length of surplus weir required.
 Total Length of existing
 Effective discharge weirs and
 surplus weirs.
 Additional length of surplus
 weir required.
 Main forest
 Fishing ground
 Length of 14 ft
 Culvert
 12 ft

Area of Tank.
 Capacity when full
 Special Remarks.
 General Remarks.

North Area
 South West Line

80	16	Salweeny tank	3 1/4	559	2	59	-	59	2
81	5	Do Long tank	1 1/2	884	2	93	39	39	5 1/2
82	4	Do Salweeny tank	3 1/4	559	2	59	-	59	3 1/2
83	4	Do Salweeny tank	3 1/4	559	2	59	-	59	3 1/2
84	4	Salweeny tank	6	2227	2 1/4	197	180	180	17
85	2	Do Salweeny tank	3	1404	3	80	90	75	5
86	2	Do Salweeny tank	2 1/2	1242	2 1/4	110	49	49	61
87	7	Do Salweeny tank	3	1404	2	148	-	-	4 1/2

40 425920 Grounding and surplus The area of the settlement of this
 was insufficient to the tank and the tank
 changed an estimate with
 the present for long flowing
 400 25333 The tank is now under repair
 Required estimate for the
 repair of the tank and
 including additional length
 of weir will be estimated
 in due course
 720 421720 The area of the settlement of this
 was insufficient to the tank and the tank
 changed an estimate with
 the present for long flowing
 1200 1224000 Grounding and surplus The area of the settlement of this
 was insufficient to the tank and the tank
 changed an estimate with
 the present for long flowing
 1800 408711 Grounding and surplus The area of the settlement of this
 was insufficient to the tank and the tank
 changed an estimate with
 the present for long flowing
 240 135520 Grounding and surplus The area of the settlement of this
 was insufficient to the tank and the tank
 changed an estimate with
 the present for long flowing
 3200 1224000 Grounding and surplus The area of the settlement of this
 was insufficient to the tank and the tank
 changed an estimate with
 the present for long flowing

of 1534
 Order of Plans affecting the Line of Railway in the above District for the Special year ended 30 June 1934
 with General Order No. 3210 dated 19th December 1934

District	Line of Railway	Stiles	Points at which surplus crosses	Names of Farms	Area of each allotment in acres	Estimated maximum flood discharge in cubic feet a second	Intended maximum depth of water over crest of surplus weir	Length of surplus weir required	Estimated length of existing palings and surplus weir	Additional length of surplus weir required	Notes	Capacity when full	General Remarks	General Remarks
----------	-----------------	--------	---------------------------------	----------------	---------------------------------	--	--	---------------------------------	---	--	-------	--------------------	-----------------	-----------------

Spencer's land is 14 675 2 71 39 39 32 3 1/2 193600 193600 Ground in land order The existing palings are only a temporary one and the whole length of the proposed palings is to be newly constructed. The land is to be divided into 120000 sq ft.

Palmer's land is 14 425 2 45 45 1 1/2 101640 67760 Ground in land order The land has no palings at all. The land has no palings at all. The surplus is discharged through a dyke at the end of the land.

Wadsworth's land is 14 425 2 45 45 3 1/2 145000 165000 Ground in land order The land has no palings at all. The surplus is discharged through a dyke at the end of the land.

Wadsworth's land is 14 1701 2 179 180 180 4 585400 485000 Ground in land order The land has no palings at all. The surplus is discharged through a dyke at the end of the land.

Palmer's land is 14 425 2 45 45 3 1/2 277900 180600 Ground in land order The land has no palings at all. The surplus is discharged through a dyke at the end of the land.

Palmer's land is 14 1066 2 113 50 46 67 9 909900 1261579 Ground in land order The land has no palings at all. The surplus is discharged through a dyke at the end of the land.

Palmer's land is 14 675 2 71 39 39 32 3 1/2 251680 195751 Ground in land order The land has no palings at all. The surplus is discharged through a dyke at the end of the land.

Palmer's land is 14 2227 3 128 95 95 33 6 1614960 244924 Ground in land order The land has no palings at all. The surplus is discharged through a dyke at the end of the land.

of the surplus water & other lands. The surplus is to be discharged through a dyke at the end of the land. The surplus is to be discharged through a dyke at the end of the land. The surplus is to be discharged through a dyke at the end of the land.

Return of Thanks affecting the Series of Railway in the North Street District for the 37th year ended 30th June 1873 with, reformed to G. P. O. No. 3210 dated 13th November 1874.

- District
 19 Lines of Railway
 Miles Points at which
 Chains surplus crosses.

Names of Tanks.

Area of Patchment Grass
Square Miles.

Estimated maximum flood
discharge cubic feet a second
interlaced maximum depth of water
in crest of surplus weir

Length of surplus weir required.

Total Length of existing
Levees and
Surplus weirs.

Additional length of surplus
weir required.

My dear Sir,

I have the honor to acknowledge the receipt of your letter of the 10th inst.

and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Signature]

Special Remarks.

General Remond

North West
South West Line

North Street
(and on the River)

North Street
North West Line

115 28 1/2 Deutzschhof and Lang
Gland

10. 2610 2 166 6 6 101

600500 600500

17
The birds nested in grass tufts and single limbs and found
these places well and free of no grass

not presenting himself.
The names of the
together with the names
of the burndown
men and boys,
except. Externals is
not of preparation —

it is not by trying
to make a park in
a park. Park is
found in the rough and, perhaps at first
it is not by trying
to make a park in
a park. Park is
found in the rough and, perhaps at first
it is not by trying
to make a park in
a park. Park is
found in the rough and, perhaps at first

The line was never injured there being
 ample waterways & bridges spanning
 the Hoanamsky River
 of surplus was wanted meet with great
 opposition as on either flank there is a
 strong channel and private property
 of great value, surplus is to Hoanamsky
 the good and has a surplus water at each end
 and surplus into Hoanamsky
 just put into the rough and surplus into
 Hoanamsky.

80 19 Chulababixi Park

1981.1.6 220

2

13200 *Th. nodiflora*

Spind in through and push up at Sp. it

80 19 *Chonopharyngus plumbeus*

80 19 Standard Oil

January 1886

10

1894

100 voliarum reguland

22

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[Faint, illegible handwritten notes]

Return of Banks affecting the Service of Railways in the District of District for the Special year ended 30th June 1976
with reference to P. O. No. 3210 dated 13th November 1874.

District		Line of Railway	Miles	Paint at which chains surplus crosses.	Names of Banks.	Area of Patchment (Square Miles).	Estimated maximum flood Discharge (Cubic feet a Second)	Intended maximum depth of water on crest of surplus weir	Length of surplus weir required.	Total Length of existing weirs and surplus weirs.	Additional length of surplus weir required.	Weir crest	Height of 1/2 of bank above level.	Area of Bank.	Capacity when full
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99															
100															

Special Remarks.

General Remarks.

North Street		Names of Banks.	Area of Patchment (Square Miles).	Estimated maximum flood Discharge (Cubic feet per second).	Intended maximum depth of water on crest of surplus weir.	Length of surplus weir required.	Total Length of existing weirs and surplus weirs.	Additional length of surplus weir required.	Weir crest.	Height of 1/2 of bank above level.	Area of Bank.	Capacity when full.
North West Line.												
Miles	Paint at which chains surplus crosses.											
82		Shoekybank	1.25	1.5		66	66		4.5		4340	8680
		Large Bank										
82		Small Bank	1.25	1.5		40	40		4.5		1500	2250

Note. The payability of the tanks and groves by the length of land by measure (usually breadth and depth.

For example, see —

The line was surveyed Saturday, and the surplus was in place for the living and watering of the bank.

in the distance of the 20. the distance the land.

Note. The packing of the banks are given by the lengths of bank by measured (usually breadth and depth).

North Street												
Tramway												
Miles	Paint at which chains surplus crosses.											
10	82	Shoekybank	1.5	1.5		72	72		4.5		6600	9900
		Small										
10	86	General good Bank	1	375	1.5	60					6200	9450
9	44	Shoeky bank	1	375	1.5	60			4.5		6150	6200
9	16	Small long bank	1.5	1.5		72	72		4.5		6600	9900
9		Shoeky Bank	2	1.5		106					6000	9000
8		Small Bank	1.5	1.5		76					2100	3050
8		Shoekybank	1.5	1.5		76					1600	2700
7		Shoeky bank	1.5	1.5		60	60		4.5		3400	5100

Paint not needed, water dies above General good, Slatby
existing bank repaired
Offices not needed, water found in good order, purifies in mouth
has been estimated for — Bank fills into General good channel
Division to the South none found in good order, purifies over
Figure — large ground into platform at South
Bank.

Did not bank, was also Shoekybank. But by
interior bank repaired
was not banked, was. Found in good order, surplus on north
was banked for. Bank fills into Shoekybank channel
found in the bottom. Found in good order, surplus on
bank. High ground into stream at South
bank. Just put into Shoekybank, surplus on
of the foregoing
of the bank and bank

Water bank. Being repaired

Return of Tanks affecting the Lines of Railway in the South Street District for the 31st 153rd year ended 30th June 1875
with reference to P.O. No. 3210 dated 13th November 1874.

District		Lines of Railway	Paint at which surplus crosses.		Names of Tanks.	Area of each tank in square miles.	Estimated maximum flood discharge in cubic feet per second.	Inter-estimated maximum depth of water on crest of surplus weir.	Length of surplus weir required.	Total length of existing culverts and surplus weirs.	Additional length of surplus weir required.	Weir crest.	Height of 1/4 of tank above ground.	Approximate or actual capacity when full.
Miles	Chains													

Special Remarks.

General Remarks.

31 14

1	1.5	4536	1.5	72	4.5	2200	2200
2	1.5	584	2.5	60	6	3200	6400
3	1.5	584	1.5	720	4.5	2250	3375
4	2	1182	2	90	6	4000	8000
5	2.2	430	1.5	63	4.5	2100	2625
6	2.5	1076	2.5	48	63	3000	4500
7	2.5	498	2	68	68	2210	3220
8	1.5	131	1.5	6	5180	10260	1925

South Street
Pranmang

For good position, surplus into Shalvally
Tanks now under repair.
Now under repair.
Surplus into Shalvally large tank.
For through repair surplus into ad
vanced of the position. The tank
has also now escaped over flood pool
at the South end.
Ground in good order surplus into
high ground as well as at South
end into Shalvally tank.
Ground in good order surplus into
Pranmang tank.
Ground in good order. Revenue
low.
Ground in good order. The tank is in through
order.
Ground in good order surplus into
Pranmang tank.

Return of Bonds affecting the Lines of Railway in the North Street District for the 36th year ended 30th June 1876 prepared with reference to G. O. W. 3210 dated 13th November 1874.

District

Line of Railway

11/1/20

Paint at which

P. Paine

surplus crosses.

Names of Tanks.

Area of Patchmont Basin
Square Miles.

Estimated maximum flood
 Discharge, cubic feet

Intended maximum depth of water over crest of surplus weir

Length of surplus wires required.

Total Length of existing
Cable 2 2 2

Effectus
Addit

Additional length of surplus
seam required.

Wm Grant

John J. ...

Area of Tank.

Capacity when full

Special Remarks.

General Remarks.

9

Recd. No 818 22 Aug 1875

1537
N^o 1531

From
The District Engineer
North Arcot
To
The Chief Engineer
For Irrigation
Madras.

Dated 16th
Received 19th July 1875

Return of tanks affecting
the lines of Railway in the
North District for the half
year ended 30th June 1875.

G. O. 2175-27-7-75

11/11/75

Recd. No 818 22 Aug 1875
H. S. 20 July

1531

No 818

Memorandum.

1

The return for the half year
ended 30th June of tanks affecting the
Madras Railway in the North Arcot
District, is for a first return very
creditably complete, and the entries
appear to be fairly accurate. If care
fully revised for the next half year
it will probably be all that is
needed, first as a record of the required
arrangements for the safety of the tanks,
and secondly as affording information
as to what is being done to make
them safe.
It may be noticed that columns
should never be blank, for even if no
necessary work be required arrange-
ments in substitution of such as
work are always necessary and
what these are can be noticed in

Column 14. Similarly Column 10 should give the difference between columns 8 and 9 (2nd part). Column 13 has been fairly filled in but in some instances apparently the remarks should have stated that estimates have been submitted for sanction with particulars as to when they would probably be carried out.

3. In this District the adequate treatment of tanks has engaged much attention during the past 2 years or so, and numerous carefully prepared estimates have been submitted for sanction accompanied by all the information necessary to allow of the arrangements being understood.

the new line at 80.19 it may be noticed
that it is not clear why the construction
of a weir should injure either
the spring channels mentioned or
private property if the discharge
be over the ground over which it
now passes for a weir would regulate
the discharge and the depth of out
flow whereas cuts for the relief of tanks
are not easily manageable and are
apt to become deep and to discharge
water unnecessarily.

Wilmington Health Bldg.
off: Chief Engineer

To the off^r Secy. of Government
S.H.C.

Handwritten notes on the left margin.

P. W. 1875 Seph
No 4937

From

The Offg. Chief-
Engineers

Del 22 July 1875
Rel. 29 July 1875
S. 1. No. 818.

Memo. on the Return
of Tanks affecting
the Lines of Railway
in the N. West Dist.
for the 1st. half of 1875.

P. 6. No. 2175-277-75.

No 2175 S.H.B.

Proceedings of the Board of East.
Under date the 27th July 1875.
Read the following:

From
The offg. Chief Eng. (H. E. No 818 of 22nd July 1875)

Recorded with the
remark that the Govern-
ment are gratified to
learn that so much at-
tention has been paid
to tanks in the North
West District, and that
so many of them are re-
ported to be in good
order including suf-
ficient means of dis-
posing of surplus.

Handwritten mark resembling 'M' or '11'.

Chgo. for Inv.	-	5
D. E. to Accts	-	8
Cons. Sup. Rys	-	12
		43
		3

sc brod -
19-8-75

by 23/7/75

10493/11-3
Govt. of Madras.

PUBLIC WORKS.

To

The Chief Engineer
for the
for the

Dated

Issued

Recd.

Encl.

G. O. 27 July 1875, No. 225

No. 7522753

Return of lands affecting
land of P. in the h. Arcot
for the half year ending 30
in 1875. The - submitted
of the - recorded
with remarks