## Preliminary Construction Schedule

| | Activity | Start Date | End Date | Duration | Relationships | Resuorces | Citation | | |
|---|---|---|---|---|---|---|---|---|---|
| | Contiuation of Deep Excavation w/ hoist | Oct. 15, 1900 | Dec. 24, 1900 | | until cableways are complete | 8 Derricks; force increased in Jan. when 2nd cableway put in operation; night shift began on Feb 28, 1901 until Jun 8 --> only night shifts; blasting; last part completed by barring & wedging | AR-1900 (120); AR-1901 (84) (86) (88) | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | **PLANT & EQUIPMENT** | | | | | | | | |
| | Rail Branch | Oct. 11, 1900 | Nov. 20, 1900 (ext. to quarry built in Early Apr 1901) | | start immediately; must be done before anything else can happen | "a small force" | AR-1900 (120); AR-1901 (86) | | |
| *(1st one put in operation dec. 24) | Cableways | Dec. 2, 1900 | Jan 26, 1901 | | rail branch must be complete befoer this can begin | Used in daytime and night time 1903 | AR-1900 (120); AR-1901 (84); AR-1903 93 | | |
| | Deep Excavation w/ cableways | Dec. 24, 1900 | Early December 1901 (likely sometimes between the 1st and 5th) | | start Once first cableway is done | | AR-1900 (120); AR-1902(6); AR-1903 (93) | | |
| | Compressor Plant | Dec.1900 | Early April, 1901 (by Apr. 13) | | predessocer to quaryy | Day & Night Work until Nov. 23, 1901 | AR-1901 (6); AR-1901 (84) (86) | | |
| [quarry tracks removed in Oct. 1903 AR-1903 (93)] | Open Quarry | Apr. 15, 1901 | June 5, 1901 | | | 60 ton, 10-wheel locomotive, 29 flat and gondola cars, 4 4-yard dump cars; 8 derricks; mat. --> skips/ scale boxes placed don flat cars, hauled to dam | AR-1901 (6 X) (86) (87) | [Mid- late Oct. 1900 AR-1900 (120)?] | |
| | Batch Plant | March 1901 | Early June 1901 (had to be before first rock) | | | 2 cement storehouses - each have 4,500 barrel capacity; sand bin - 370 cubic yd cap.; | AR-1901 (86) | | |
| | Gravel Pit | March 1901 | Early June 1901 (had to be before first rock) | | | 2 crews; 1 man and horse on site & 2 wagon crews | AR-1901 (86) | | |
| | | | | | | | | | |
| | Rubble Masonry (1st rock-flow line) | June 5, 1901 | Ealr April 1903 (had to be before no water through gap) | | start once plant is complete | 7 derricks; Masonry work suspened in Dec 8 1902 and returned March 21 1903; Masonry suspended Dec 3 1901 resumed March 24 1902 | AR-1901 (6) (90); AR-1903 93; AR-1902 (105); AR-1903 (95) | | |
| | Powerhouse Structure | 1902 | (Had to be before no water thru gap) 1903 | | | | AR-1902 (6); AR-1903 (6) (96); AR-1904 (7) | | |
| | | | | | | | | | |
| | **PROCESS PIPING** | | | | | | | | |
| | Pipe Through Dam | Sep 1 1902 | Nov 20,1902 | | | | AR-1902(109) | | |
| | Lower Gate Chamber | May 18, 1902 (formwork started) | (Had to be before no water thru gap) 1903 | | | | AR-1902 (108); AR-1903 (101); AR-1904 (7) | | |
| | Conduits to Pool | March 1902 | Nov. 1, 1902 | | | | AR-1903 96 | | |
| | Pool Structure | end of March 1902 | 11/21/1903 (i think this needed to be completed befor eno water thru the gap) | | | | AR-1902 (110); AR-1903 (97) | | |
| | Weir & Erosion Apron | end of March 1902 | 11/21/1903 (see comment above) | | | 1 derrick | AR-1901 (90) (92); AR-1902 (110); AR-1903 (97) | | |
| | | | | | | | | | |
| | **CMRR** | | | | | | | | |
| | CMRR Pedestals | June 4 1902 | December 31 1902 | | must be done before water goes thru pipes down stream | 4 pedestals left to complete after dec | AR-1902 (118) | | |
| | CMRR Trestle Bridge | January 1 1903 | November 7 1903 | | once pedestals are done | | AR 1903 (106) | | |
| | | | | | | | | | |
| | No Water Through Gap | 4/11/1903 | | | when masonry is high enough | | AR1903 97 | | |

*max. labor force by contractor in 1900: 163 men & 24 horses AR-1900 (121)

*1901 - max. labor force of 344 men and 22 horses AR-1901 (92) *2 sleeping quarters each accomodate 80 men, "many" small buildings for men with families AR-1901 (87)

*1902 - avg. labor force: 166 men & 18 horses

*1903- max. labor force 764 men & 51 horses

*summer 1904 - 11 derricks used for massonry AR-1904 (91)

*1904 - max. labor force 778 men (141 at Flecher quarry) & 54 horses

*plant complete 1901 (before masonry) AR 1901 - 6

May 1904 - excavation at westerly end completed AR-1904(85)

*July 9, 1904 - excavation at easterly end of dam = completed AR-1904 (85)

*by end of 1901 - complete plant [AR-1901 (6)]

*during 1901 excavation for the bed of the structure was complete AR1902 6

*excavation stopped from Nov. 22- Dec.24

*rail branch removed after Dec. 3, 1903 AR-1903 (94)

* each derrick is operated by engineers & use of tagman [AR 1901 (86)]

* 2 large bld. for unmarried laborers - 80 men each [AR-1901 (87)]

*many small bld. for married men

*2 openings at quarry [AR-1901 (87)]

*dam/rubble masonry - 54% large stones, 17% spalls, 29% mortar [AR-1901 (91)]

*max. force - 344 men, 22 horses - week ending Jul 20, 1901 [AR-1901 (92)]

*Apr 20, 1903 - from then on used W. Chelmsford Flecher quarry - gray granite for asshlar (other quarry still used for rubble masonry) - 175 men working there

*masonry laid to the extent of 28,000 cubic yards and a height of 40 ft above bed rock in 1901(AR1902 6) *masonry laid to the extent of 65,000 cubic yards dam reached a height of 96ft in *Masonry dam at height of 739ft in 1903(AR1903 6)1902(AR1902 6)

The largest amount of rubble masonry laid in the dam during anyweek was

during the week ending August 30, when 9 derricks werein operation, and 2,751 cubic yards were laid. AR 1902(113)

*Masonry typically from end of march - early december each year

*AR-1902 (6) - in 1902 foundation for chamber and powerhouse completed

*concrete done in nov. 1902? for gate chamber

*Masonry on gap began March 27, 1903 AR-1903 (95)