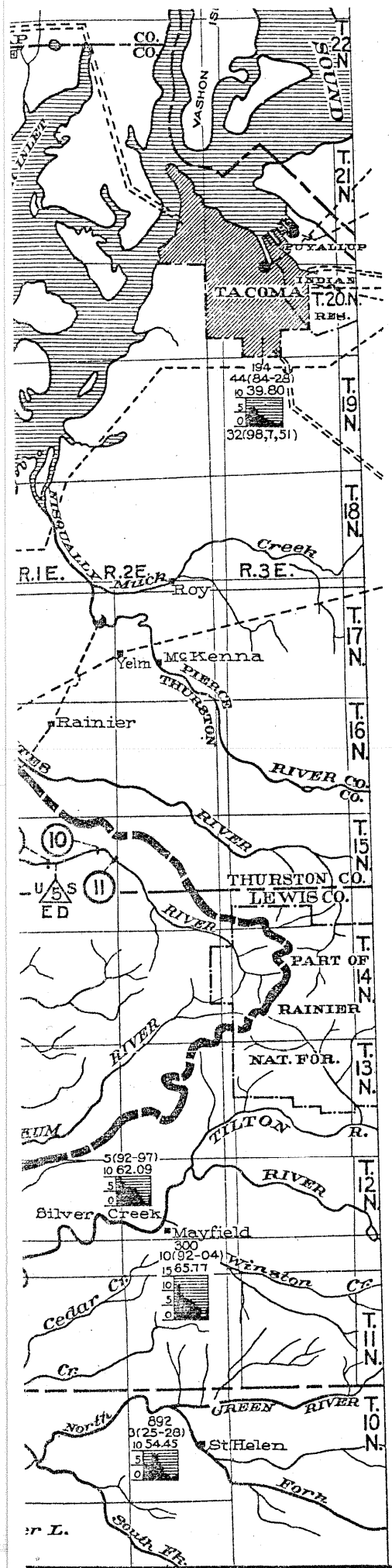
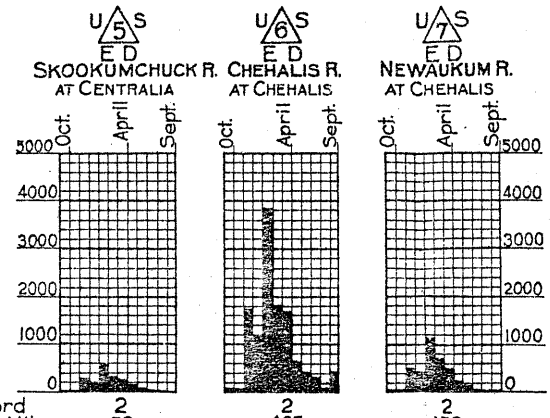
Junction of Chehalis & Wynoochee Rivers
Highway Bridge - ABERDEEN
N.P.R.R. Bridge - So. ABERDEEN
COSMOPOLIS
13.4 Mi. Chehalis River = 0 Mi. Wynoochee River
MONTESANO
N.P.R.R. Bridge Crossing Wynoochee River
Satsop River
Satsop Highway Bridge - Chehalis River
Diversion of Municipal water supply-Aberdeen - on Wynoochee
Highway Bridge-Chehalis River
Lower Dam, Site No. 4
Porter Bridge-Chehalis River
Proposed 7 miles of supply pipe line
Bridge
PROPOSED DAM & RESERVOIR
Elev. 200
WYNOOCHEE
Proposed 8 miles of supply pipe line
Oakville Br.
Balch Br.
0 MILE
10
20
30
40
19'
100'
200'
20
30
APPROXIMATE
RELATION OF DATUMS
in Chehalis Basin
U.S.G.S.
U.S.C.&G.S.
U.S.E.D.
O.&W.R.R.
City of ABERDEEN
N.P.R.R.(So. Bend Profile)
5.6'
6.2'
7.0'
7.3'
25.5'



Drainage Area in Sq. Miles	[illegible]	[illegible]	[illegible]	[illegible]
Mean Annual Discharge in S.F.	666	999	1325	1681
Mean Annual Run off in inches	138.13	128.43	57.92	24.31
Max. Crest Discharge in S.F.	9910	25,000	10,700	12,000
Minim. Crest Discharge in S.F.	76	96	203	147



No. of years of Record	2	2	2
Drainage Area in Sq. Miles	59	465	158
Mean Annual Discharge in S.F.	166	1042	325
Mean Annual Run-off in inches	42.29	29.83	29.23
Crest Discharge in S.F.	1840	7580	3020
Minim. Crest Discharge in S.F.	21	54	27

Ref. No.	LOCATION Sec.	Twnsp	Range	Q-90 in Sec.Ft.	Effect. Head in Ft.	Capacity in H.P. 90% time	Usable Storage in A.F.	DAM Crest Length	Height	Applic. No.	Remarks:
1	20	22	7W	240	130	2500	43,500	700	158	NONE	Upper Canyon Site Not economically feasible
2	12	21	8W	614	245	12,034	228,000	1000	295	2398	Weatherwax Basin, with power house near dam
3	25	21	8W	620	96	4,760	0	200	5	NONE	Save Cr. Diversion with power plant 8 miles down stream
4	27 28	19	8W	829	90	5,970	74,800	1880	88	NONE	Lower Reservoir with power plant 7 miles down stream
5	28	18	8W	110		Domestic Water Supply				972	City of Aberdeen industrial supply to Van Winkle res. installed
6	31	18	7W	79	60	539				2770	Sylvia Creek Plant-Developed
7	17	21	6W	50 100	6 150	1200		200	5 100	2309	Olympia Water Supply Shelton Water Supply
8	28	19	6W	200	40	1000		200	40		H.S. Shorey for Montesano power and water supply
9	16	15	1E		26			150			Skookum Lumber Co.
10	11-12	15	1E	125	125	1250	220	200	25	2387	Skookum Lumber Co for power
11	13	15	1E	50			3000			2304	City of Centralia for power

LEGEND

PRECIPITATION RECORD

182 ____ Elevation (Datum, Mean Sea Level)
36(90-30) ___ Number of years of Record (Period)
15 48.81 ____ Mean Annual Precipitation
10
5
0
Oct. Sept.
35(105,-16,51.0)

TEMPERATURE RECORD

35 Number of years of Record
105 Maximum Temperature
-16 Lowest Temperature
51 Mean Annual Temperature

GENERATING STATIONS

Existing ● Projected ○
Power Lines, existing & projected ---- or ===

CHEHALIS RIVER, WASH.

METEOROLOGY-HYDROLOGY AND POWER

IN 5 SHEETS SHEET NO. 3 SCALE 1/500,000

1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 MILES

U.S. Engineer Office, Seattle, Washington, January, 10, 1931

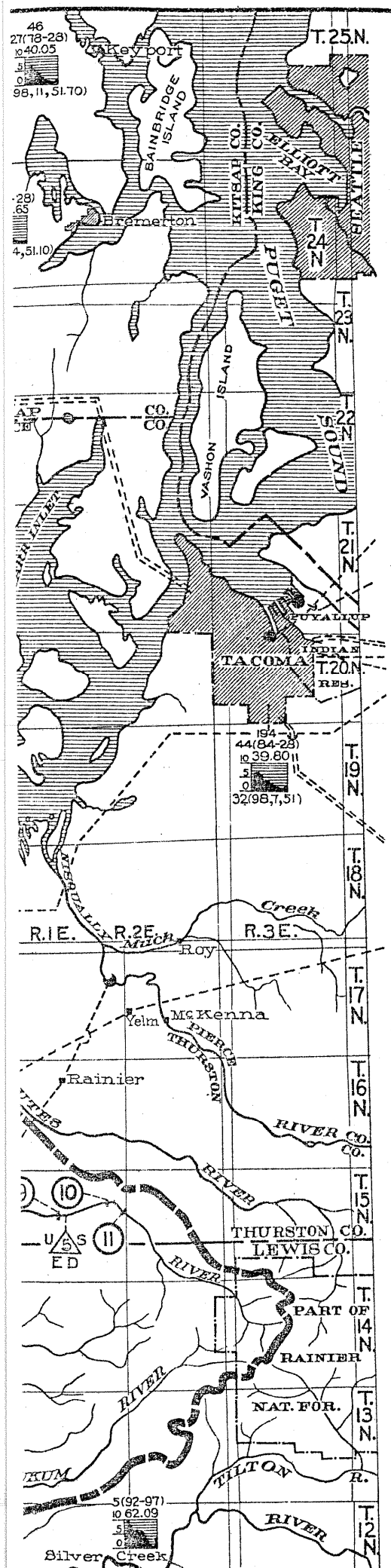
Submitted: [signature] Approved: [signature]

1st Lieut. Corps of Engineers — Major, Corps of Engineers

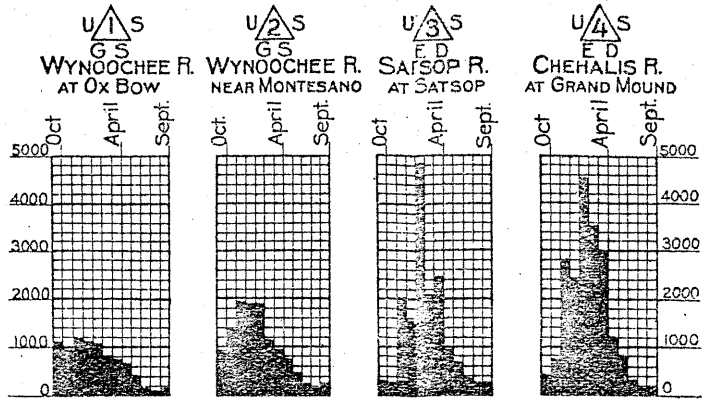
Transmitted with report dated January 30, 1931

Drawn by H.M.Jr. File No. K-6-13

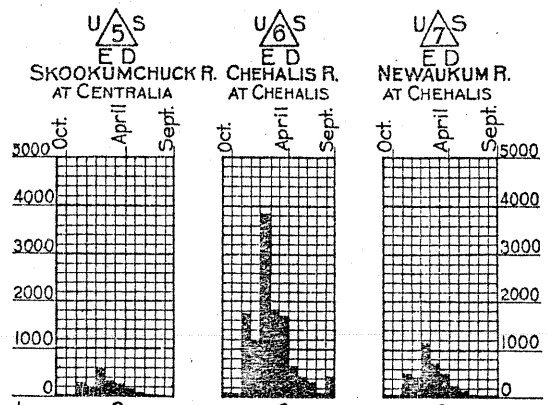
PLATE III



HYDROLOGICAL DATA



	U 1 S	U 2 S	U 3 S	U 4 S
No. of years of Record	5	8	2	2
Drainage Area in Sq. Miles	65	105	315	928
Mean Annual Discharge in S.F.	666	999	1325	1681
Mean Annual Run off in inches	138.13	128.43	57.92	243.1
Max. Crest Discharge in S.F.	9910	25,000	10,700	12,000
Minim. Crest Discharge in S.F.	76	96	203	147



	U 5 S	U 6 S	U 7 S
No. of years of Record	2	2	2
Drainage Area in Sq. Miles	59	465	158
Mean Annual Discharge in S.F.	166	1042	325
Mean Annual Run-off in inches	42.29	29.83	29.23
Crest Discharge in S.F.	1840	7580	3020
Minim. Crest Discharge in S.F.	21	54	27

Ref. No.	LOCATION Sec.	Twnsp	Range	Q-90 in Sec.Ft.	Effect. Head in Ft.	Capacity in H.P. 90% time	Usable Storage in A.F.	DAM Crest Length	Height	Applic. No.	Remarks:
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8	28	19	6W	200	40	1000		200	40		H.S. Shorey for Montesano power and water supply
9	16	15	1E		26			150			Skookum Lumber Co.
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11	13	15	1E	50			3000			2304	City of Centralia for power

LEGEND

PRECIPITATION RECORD

182 ____ Elevation (Datum, Mean Sea Level)
36(90-30) ___ Number of years of Record (Period)
15 48.81 ___ Mean Annual Precipitation

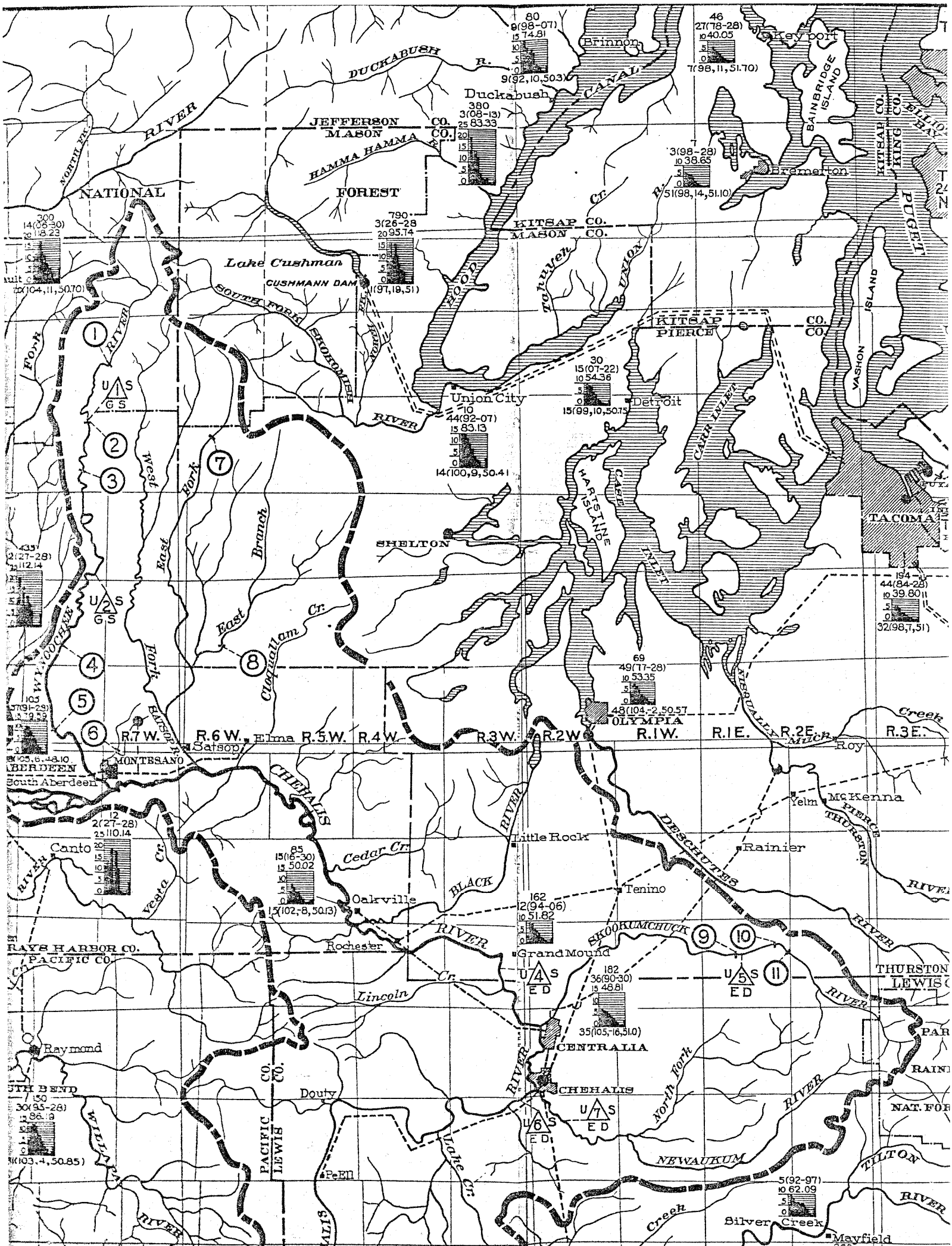
TEMPERATURE RECORD

Oct. Sept.
35(105,-16,51.0)

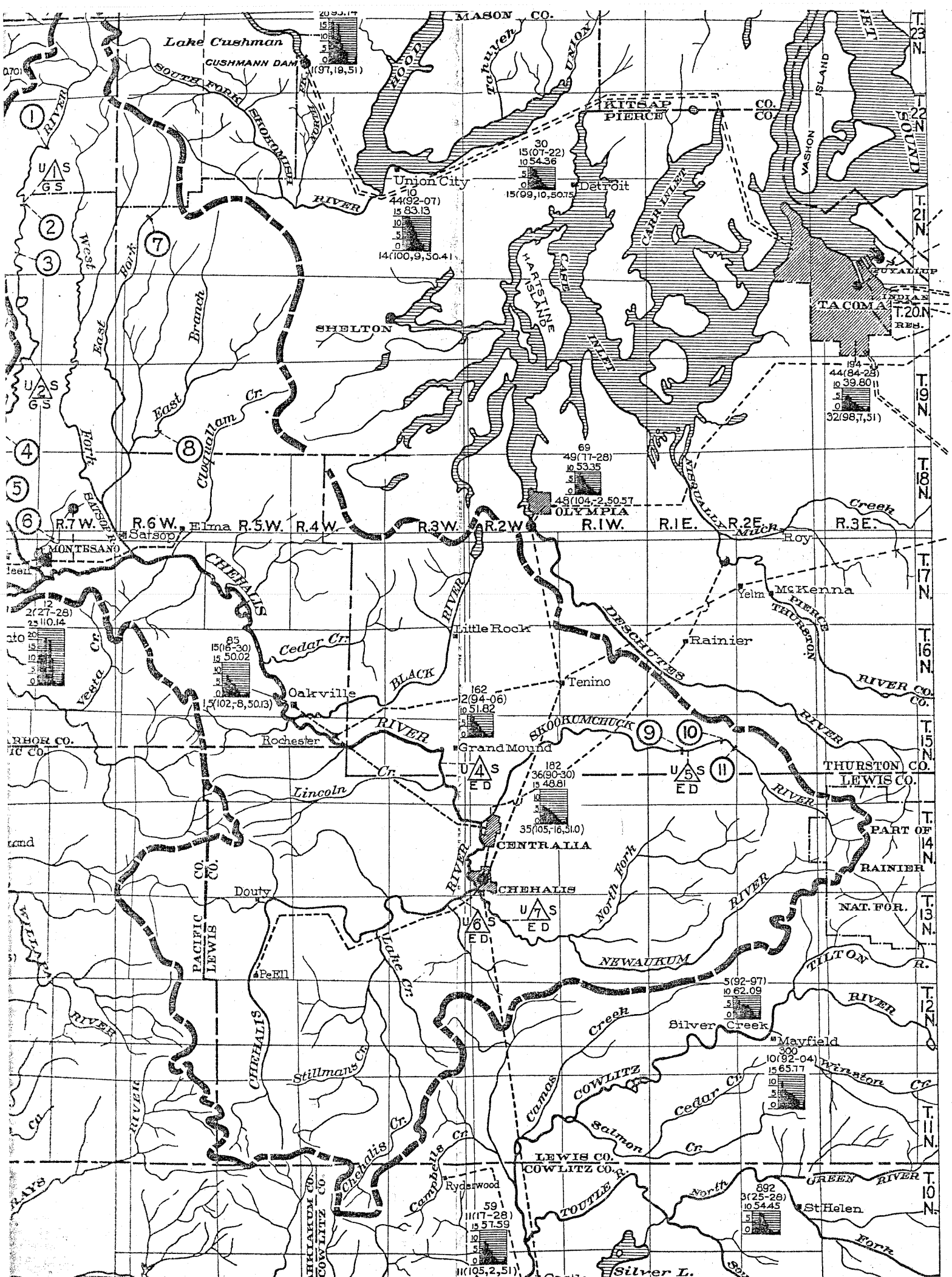
35 Number of years of Record
105 Maximum Temperature
-16 Lowest Temperature
51 Mean Annual Temperature

GENERATING STATIONS

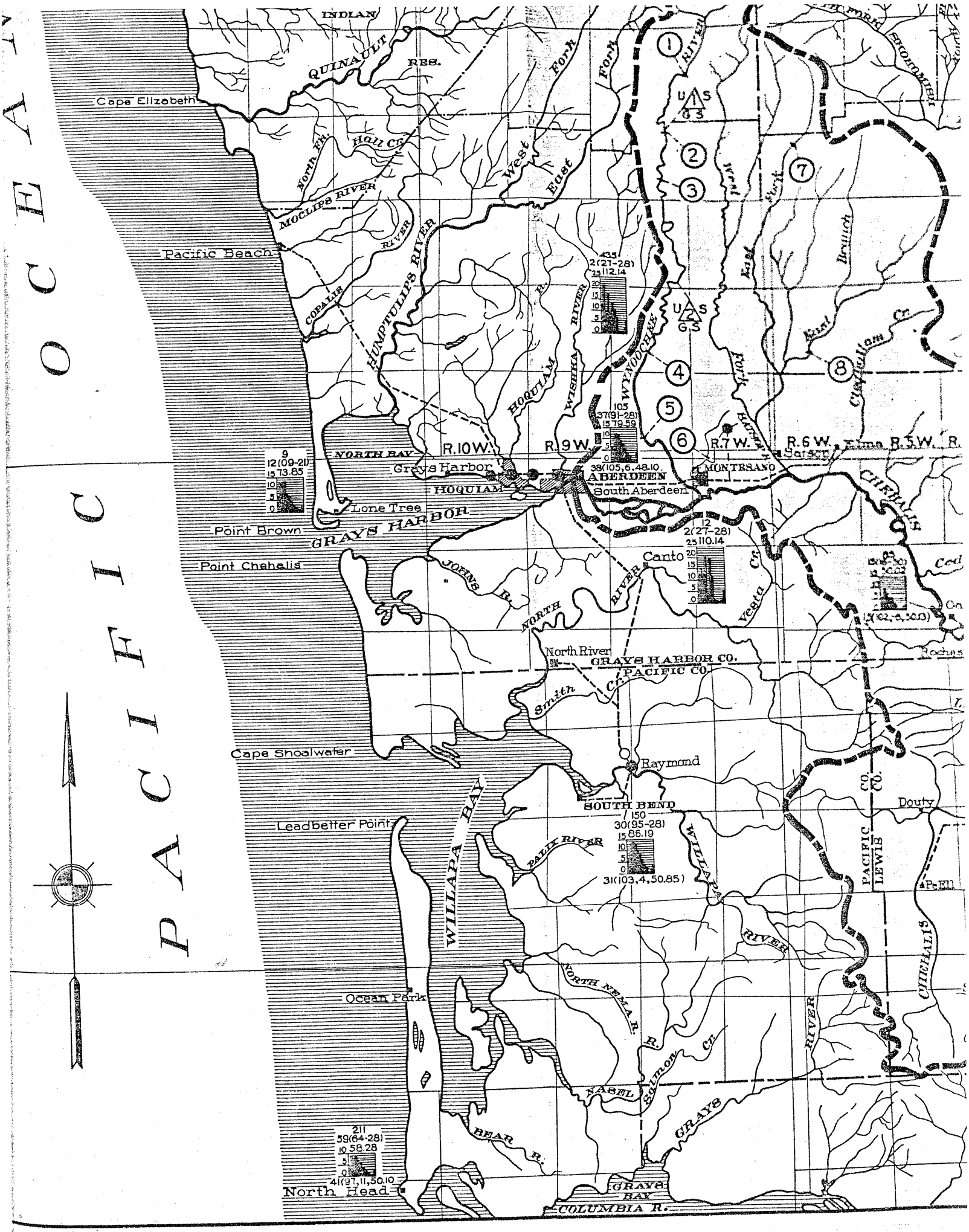
Existing ● Projected ○



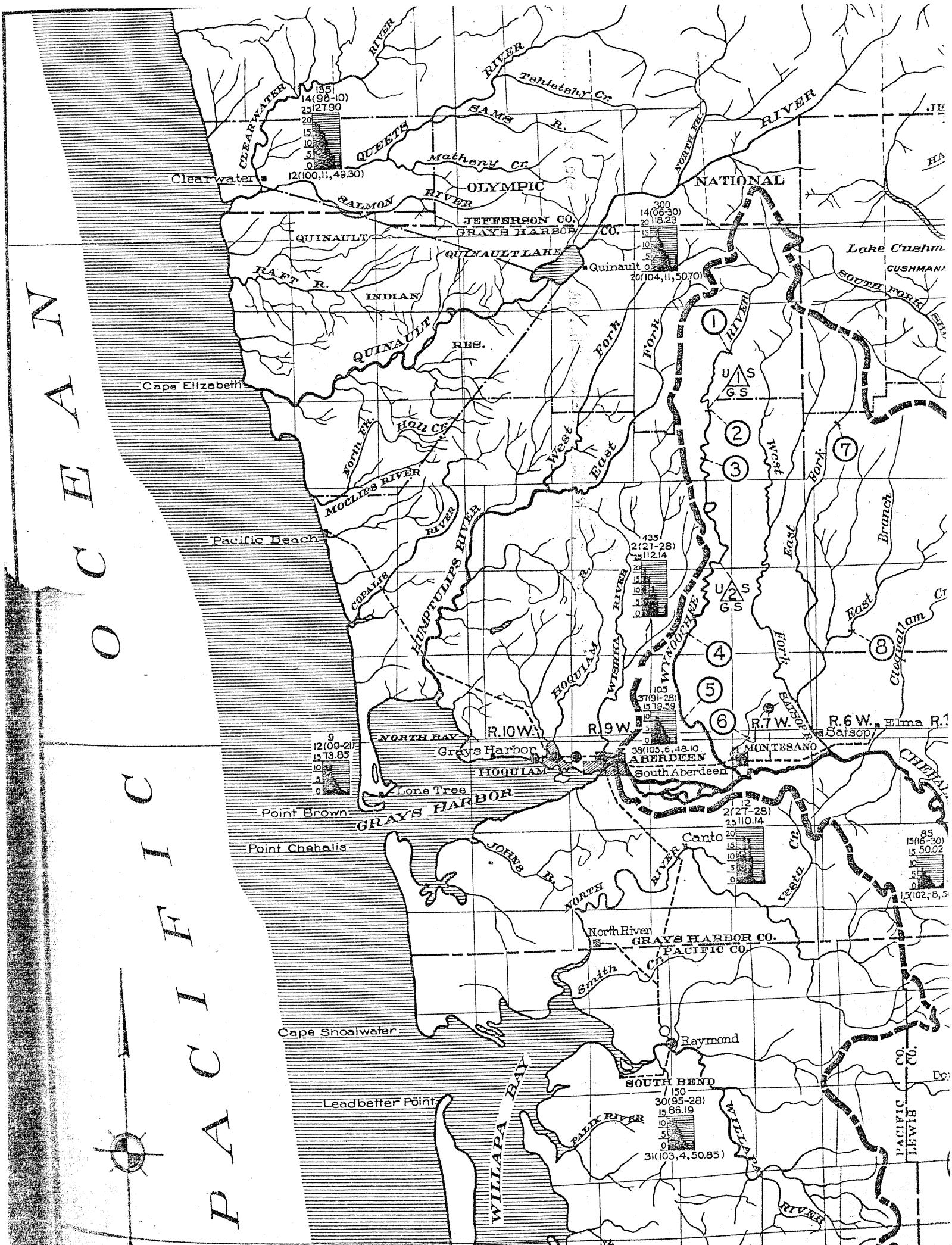
DUCKABUSH R.
Brinnon
Keyport
BAINBRIDGE ISLAND
Duckabush
CANAL
JEFFERSON CO.
MASON CO.
HAMMA HAMMA R.
NATIONAL
FOREST
Bremerton
KITSAP CO.
KING CO.
PUGET
KITSAP CO.
MASON CO.
Lake Cushman
CUSHMANN DAM
SOUTH FORK SKOKOMISH RIVER
HOOD
Tahuyeh Cr.
UNION R.
KITSAP CO.
PIERCE CO.
VASHON ISLAND
Union City
Detroit
CARR INLET
HARTSTINE ISLAND
CASE INLET
TACOMA
SHELTON
West Fork
East Fork
East Branch
Cloquallam Cr.
WYNOOCHEE
SATSOP R.
OLYMPIA
NISQUALLY
Much Creek
Roy
R.7 W.
R.6 W.
R.5 W.
R.4 W.
R.3 W.
R.2 W.
R.1 W.
R.1 E.
R.2 E.
R.3 E.
Elma
Satsop
MONTESANO
South Aberdeen
CHEHALIS
Yelm
McKenna
PIERCE
THURSTON
Canto
Cedar Cr.
Little Rock
DESCHUTES
Rainier
Vesta Cr.
BLACK RIVER
Oakville
Tenino
SKOOKUMCHUCK
Rochester
Grand Mound
RAYS HARBOR CO.
PACIFIC CO.
THURSTON
LEWIS
Lincoln Cr.
Raymond
CENTRALIA
CHEHALIS
North Fork
Douty
PACIFIC CO.
LEWIS CO.
WILLAPA RIVER
Lake Cr.
NEWAUKUM RIVER
TILTON RIVER
PeEll
Silver Creek
Mayfield

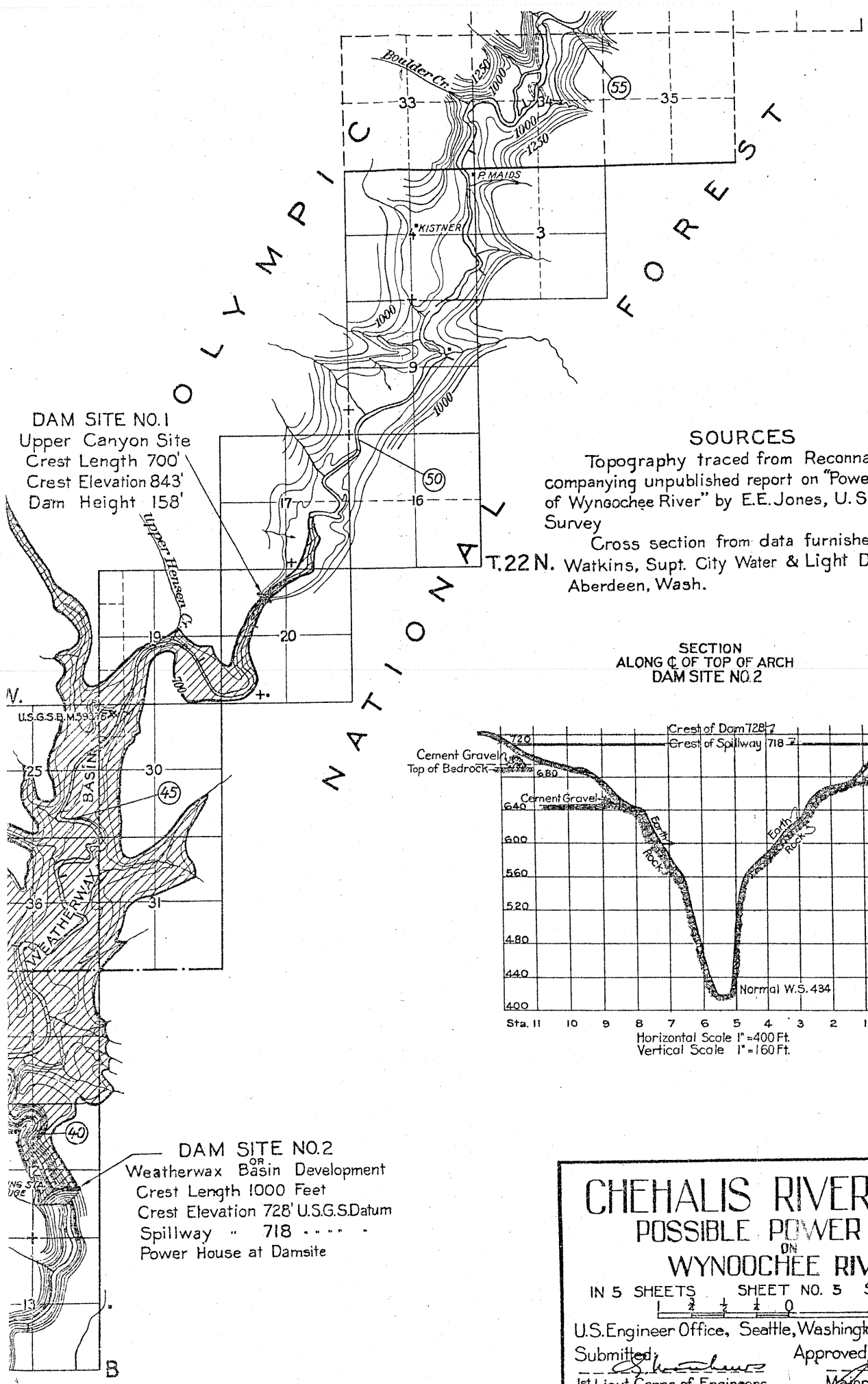


MASON CO.
Lake Cushman
CUSHMANN DAM
SOUTH FORK SKOKOMISH RIVER
NORTH FK.
HOOD
Tahuyeh
UNION
KITSAP CO.
PIERCE CO.
VASHON ISLAND
SOUND
Union City
Detroit
CARR INLET
HARTSTINE ISLAND
CASE INLET
SHELTON
TACOMA
PUYALLUP INDIAN RES.
West Fork
East Fork
East Branch
Cloquallam Cr.
SATSOP R.
Satsop
Elma
MONTESANO
OLYMPIA
NISQUALLY
Much Creek
Roy
Yelm
McKenna
PIERCE
THURSTON
Rainier
DESCHUTES RIVER
Little Rock
Cedar Cr.
BLACK RIVER
Tenino
Oakville
Vesta Cr.
CHEHALIS RIVER
Rochester
Grand Mound
SKOOKUMCHUCK RIVER
THURSTON CO.
LEWIS CO.
Lincoln Cr.
CENTRALIA
CHEHALIS
North Fork
PART OF RAINIER NAT. FOR.
Douty
PACIFIC CO.
LEWIS CO.
Lake Cr.
NEWAUKUM RIVER
TILTON R.
PeEll
Silver Creek
Mayfield
Winston Cr.
Stillmans Cr.
Camas Creek
COWLITZ
Cedar Cr.
Salmon Cr.
Chehalis Cr.
Campbells Cr.
LEWIS CO.
COWLITZ CO.
Ryderwood
TOUTLE R.
North Fork
GREEN RIVER
St Helen
Silver L.
T. 23 N.
T. 22 N.
T. 21 N.
T. 20 N.
T. 19 N.
T. 18 N.
T. 17 N.
T. 16 N.
T. 15 N.
T. 14 N.
T. 13 N.
T. 12 N.
T. 11 N.
T. 10 N.
R.7 W.
R.6 W.
R.5 W.
R.4 W.
R.3 W.
R.2 W.
R.1 W.
R.1 E.
R.2 E.
R.3 E.



U. S. GOVERNMENT PRINTING OFFICE


PACIFIC OCEAN
Clearwater
Cape Elizabeth
Pacific Beach
Point Brown
Point Chehalis
Cape Shoalwater
Leadbetter Point
OLYMPIC NATIONAL
JEFFERSON CO.
GRAYS HARBOR CO.
QUINAULT
QUINAULT LAKE
Quinault
INDIAN RES.
QUINAULT
RAFT R.
SALMON RIVER
QUEETS RIVER
SAMS R.
Tshletshy Cr.
Matheny Cr.
CLEARWATER RIVER
NORTH FK.
RIVER
Lake Cushm
CUSHMANN
SOUTH FORK
West Fork
East Fork
Hall Cr.
North Fk.
MOCLIPS RIVER
COPALIS RIVER
HUMPTULIPS RIVER
HOQUIAM R.
WISHKA RIVER
WYNOOCHEE
West Fork
East Fork
East Branch
Cloquallam Cr
SATSOP R.
Satsop
Elma
R.10W.
R.9W.
R.7W.
R.6W.
NORTH BAY
Grays Harbor
HOQUIAM
ABERDEEN
South Aberdeen
MONTESANO
Lone Tree
GRAYS HARBOR
Canto
JOHNS R.
NORTH RIVER
Vesta Cr.
North River
GRAYS HARBOR CO.
PACIFIC CO.
Smith Cr.
Raymond
SOUTH BEND
PALIX RIVER
WILLAPA BAY
WILLAPA RIVER
PACIFIC CO.
LEWIS CO.
U S G S
1
2
3
4
5
6
7
8
135
14(96-10)
25 127.90
12(100,11,49.30)
300
14(06-30)
20 118.23
20(104,11,50.70)
435
2(27-28)
25 112.14
105
37(91-28)
15 79.59
38(105,6,48.10
9
12(09-21)
15 73.85
12
2(27-28)
25 110.14
85
15(16-30)
15 50.02
15(102,-8,5
150
30(95-28)
15 86.19
31(103,4,50.85)

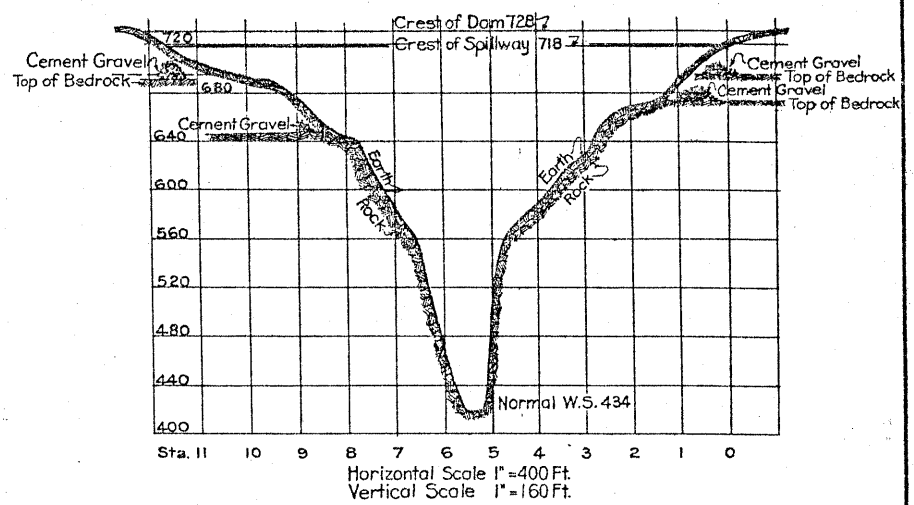


SOURCES

Topography traced from Reconnaissance Map accompanying unpublished report on "Power Resources of Wynoochee River" by E.E. Jones, U.S. Geological Survey

Cross section from data furnished by Mr. S.C. Watkins, Supt. City Water & Light Department, Aberdeen, Wash.

SECTION ALONG ℄ OF TOP OF ARCH DAM SITE NO.2



CHEHALIS RIVER, WASH.

POSSIBLE POWER SITES ON WYNOOCHEE RIVER

IN 5 SHEETS SHEET NO. 5 SCALE: 1/63,360

1 ¾ ½ ¼ 0 1 MILE

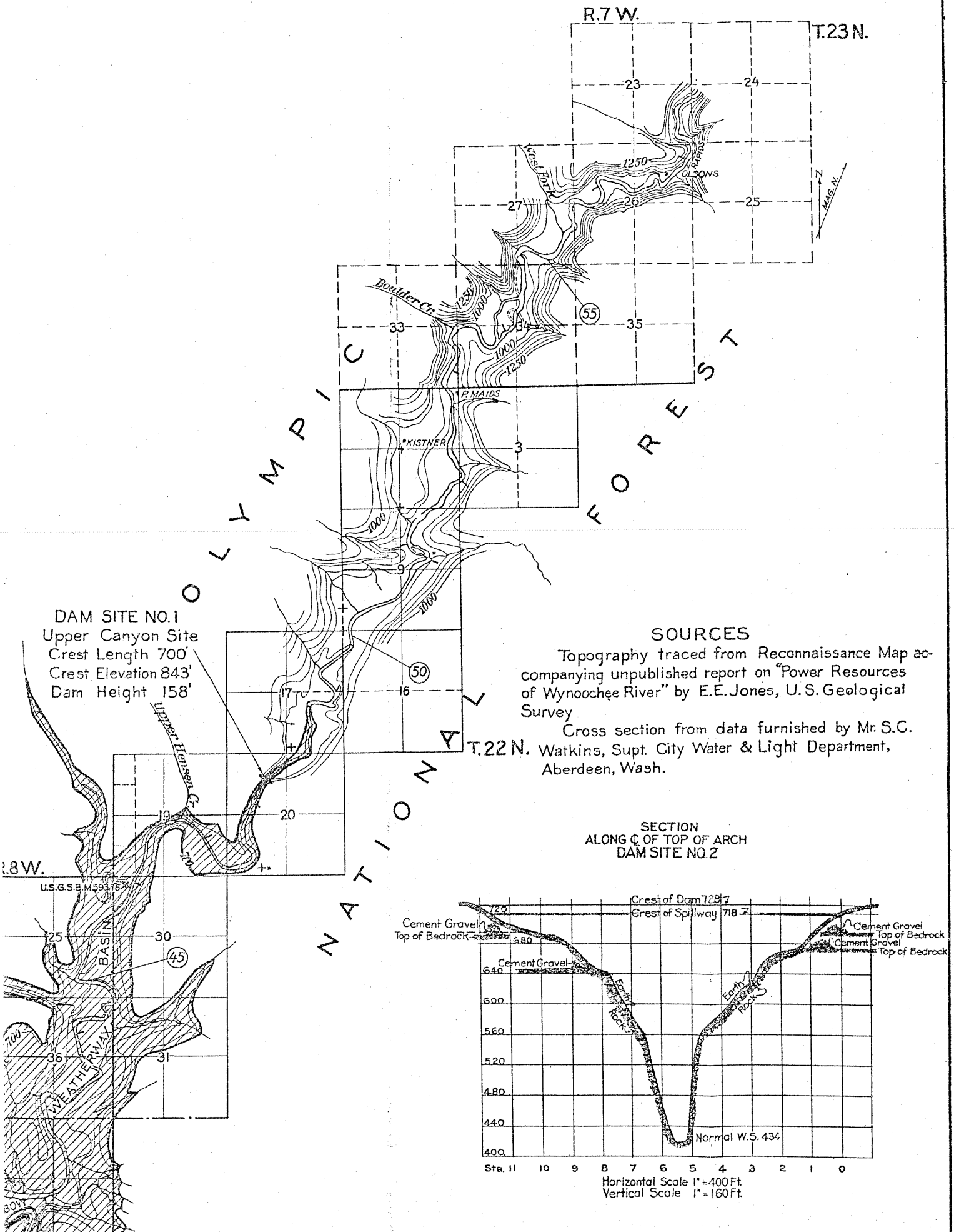
U.S. Engineer Office, Seattle, Washington, January 2, 1931

Submitted: _____ 1st Lieut. Corps of Engineers

Approved: _____ Major, Corps of Engineers

Transmitted with report

Drawn by: H.M.Jr. File No. K-6-16 dated January 30, 1931



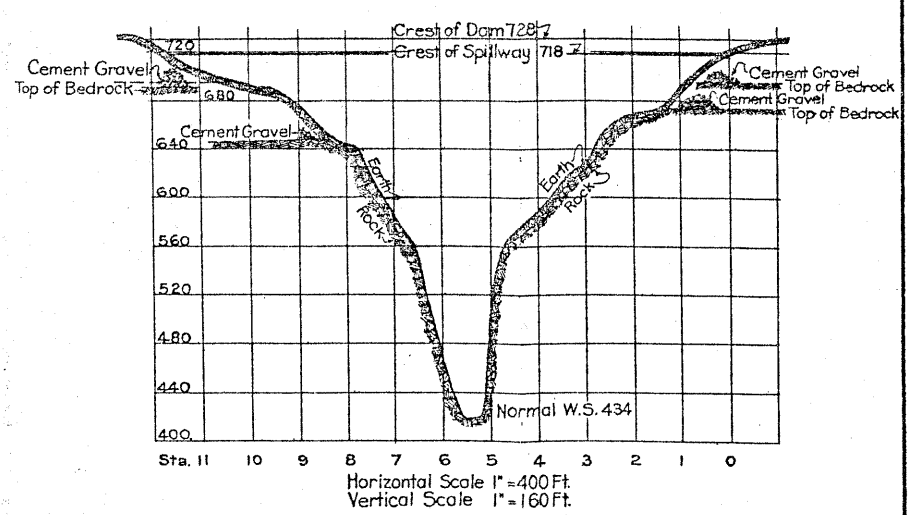
DAM SITE NO. 1
Upper Canyon Site
Crest Length 700'
Crest Elevation 843'
Dam Height 158'

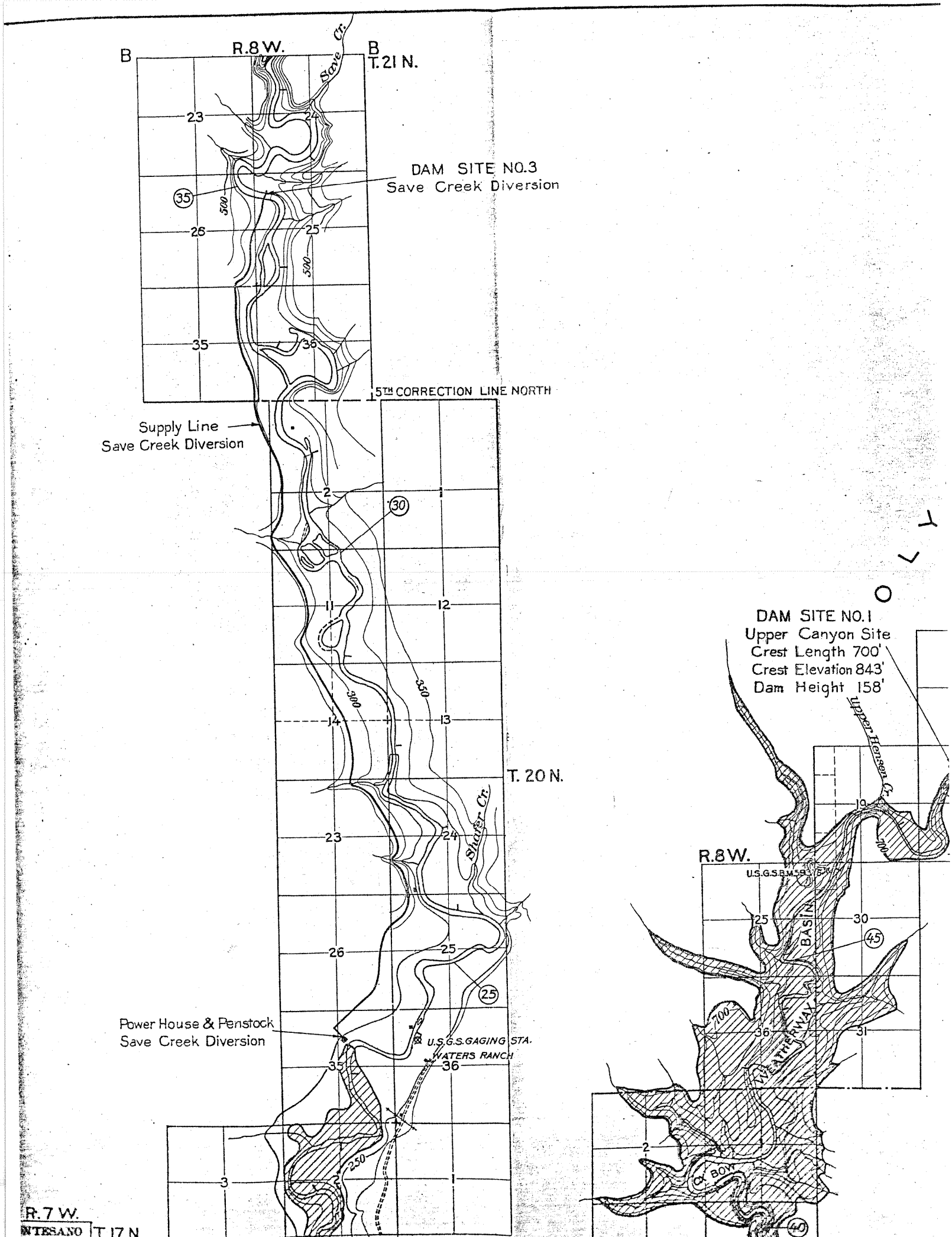
SOURCES

Topography traced from Reconnaissance Map accompanying unpublished report on "Power Resources of Wynoochee River" by E.E. Jones, U.S. Geological Survey

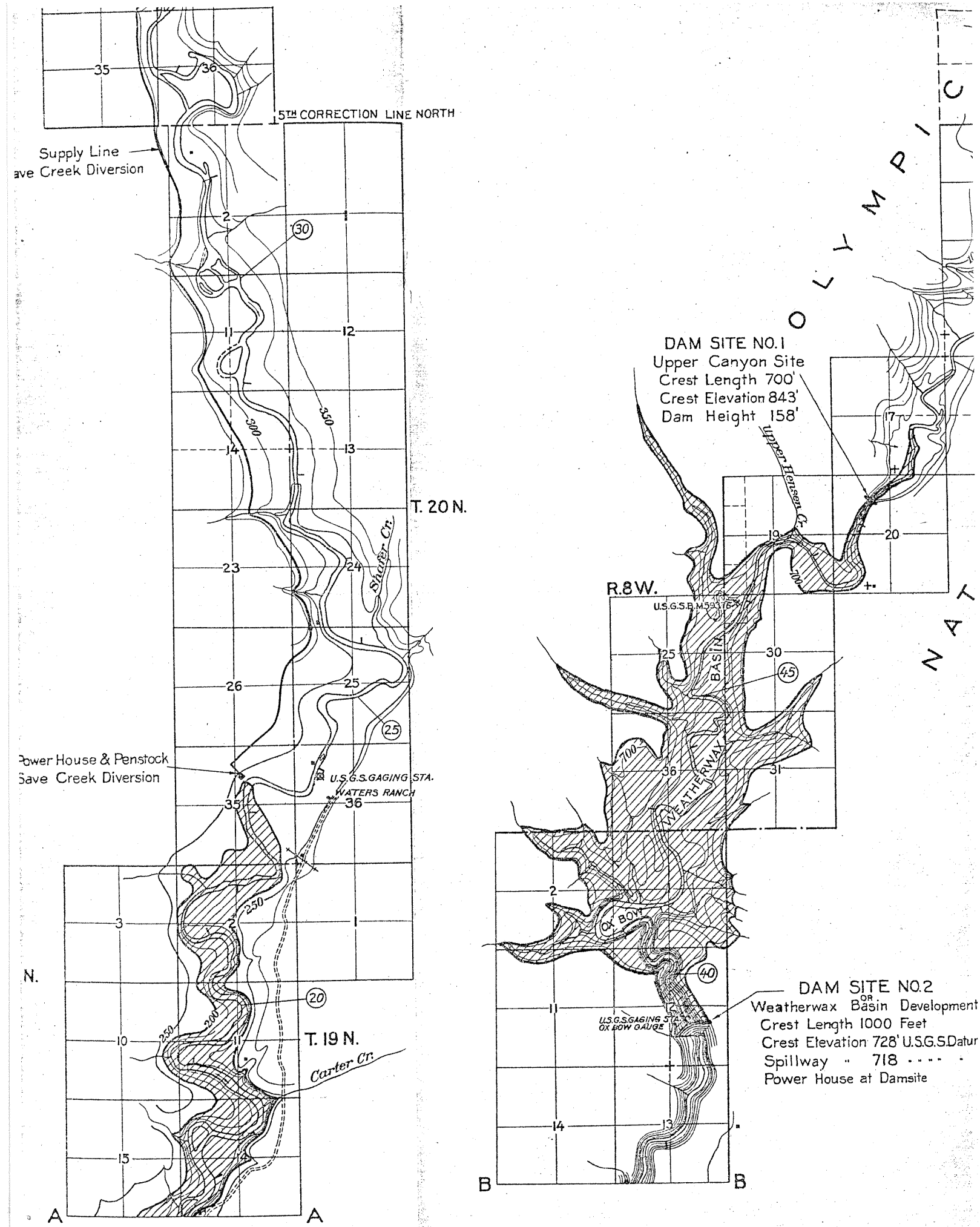
Cross section from data furnished by Mr. S.C. Watkins, Supt. City Water & Light Department, Aberdeen, Wash.

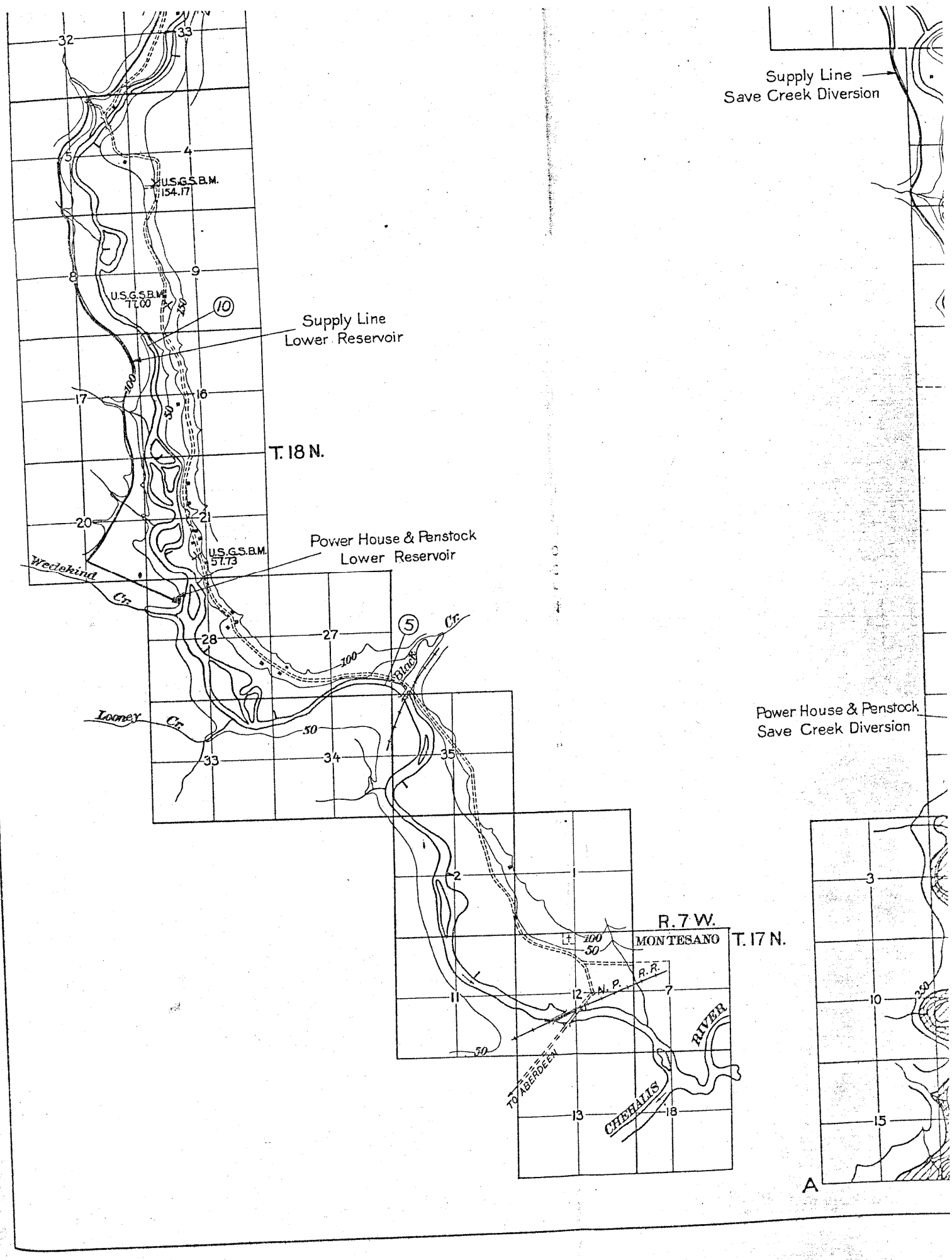
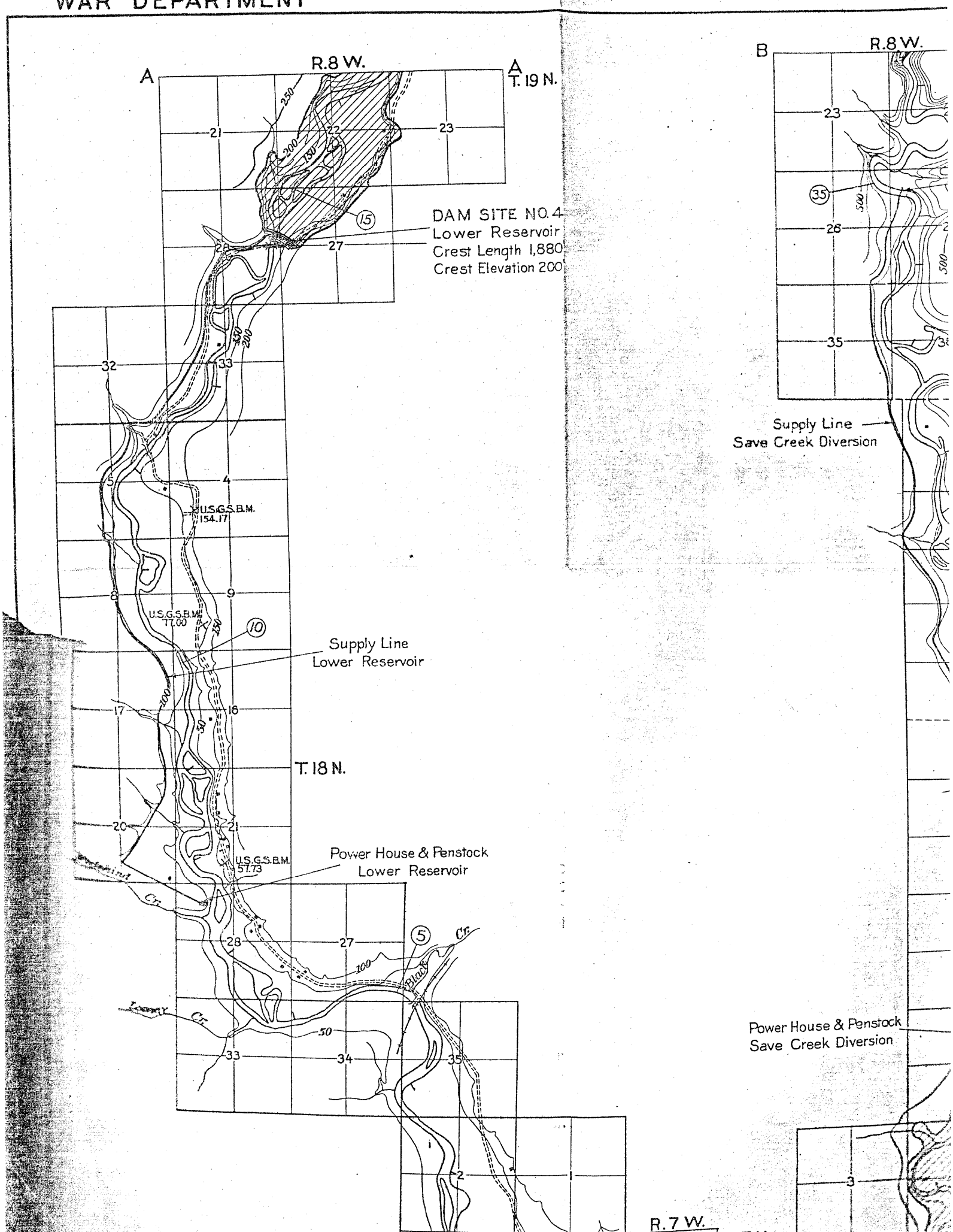
SECTION
ALONG ℄ OF TOP OF ARCH
DAM SITE NO. 2





B
R.8 W.
B
T. 21 N.
Save Cr.
DAM SITE NO.3
Save Creek Diversion
5TH CORRECTION LINE NORTH
Supply Line
Save Creek Diversion
T. 20 N.
Shafer Cr.
Power House & Penstock
Save Creek Diversion
U.S.G.S. GAGING STA.
WATERS RANCH
R. 7 W.
T. 17 N.
DAM SITE NO.1
Upper Canyon Site
Crest Length 700'
Crest Elevation 843'
Dam Height 158'
Upper Hensen Cr.
R.8 W.
U.S.G.S.B.M.593
BASIN
WEATHERWAY
OX BOW


5TH CORRECTION LINE NORTH
Supply Line
ave Creek Diversion
T. 20 N.
Shafer Cr.
Power House & Penstock
Save Creek Diversion
U.S.G.S.GAGING STA.
WATERS RANCH
T. 19 N.
Carter Cr.
A
A
OLYMPIC
NAT
DAM SITE NO.1
Upper Canyon Site
Crest Length 700'
Crest Elevation 843'
Dam Height 158'
Upper Hensen Cr.
R.8W.
U.S.G.S.B.M.5937
BASIN
WEATHERWAX
OX BOW
U.S.G.S.GAGING STA.
OX BOW GAUGE
DAM SITE NO.2
OR
Weatherwax Basin Development
Crest Length 1000 Feet
Crest Elevation 728' U.S.G.S.Datur
Spillway " 718 - - - -
Power House at Damsite
B
B


Supply Line
Save Creek Diversion
U.S.G.S.B.M.
154.17
U.S.G.S.B.M.
77.00
Supply Line
Lower Reservoir
T. 18 N.
Power House & Penstock
Lower Reservoir
U.S.G.S.B.M.
57.73
Wedekind Cr.
Black Cr.
Looney Cr.
Power House & Penstock
Save Creek Diversion
R. 7 W.
MONTESANO
T. 17 N.
N. P. R.R.
TO ABERDEEN
CHEHALIS RIVER
A

WAR DEPARTMENT