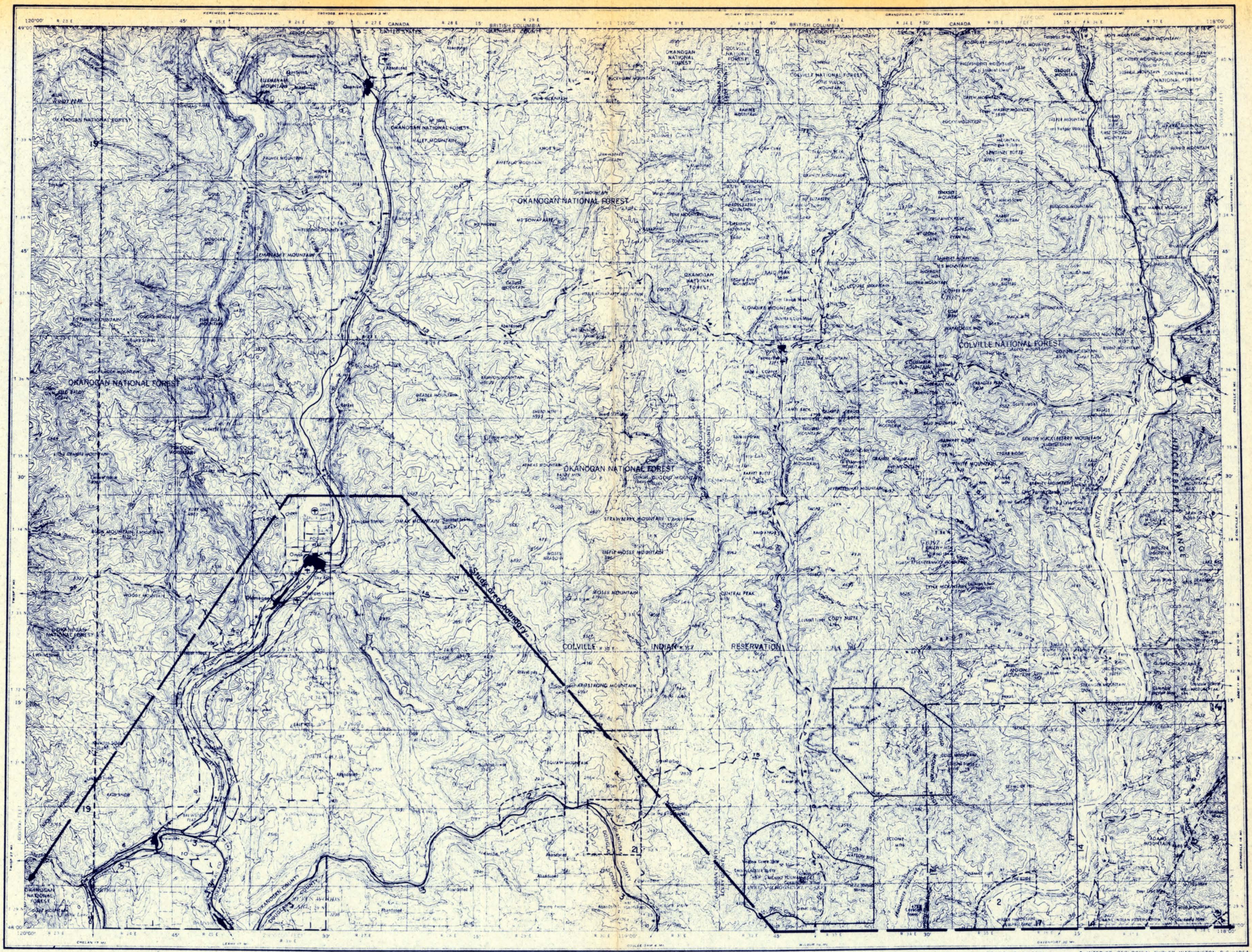
OLYMPIA, WASHINGTON 98504



Prepared by the Army Map Service (ESCART), Office of Engineers, U.S. Army, Washington, D.C. Compiled in 1955 by photogrammetric methods from USGS and AMS quadrangles (1:48,000, 1:50,000 and 1:62,500). 1958 revision. Planimetric detail revised by photogrammetric methods. Horizontal and vertical control by USGS, OSC&GS, USFS, USCE and latest National Boundary Commission photography. Field annotated in 1954. Limited revision by U.S. Geological Survey 1963.

Lambert conformal conic projection, Washington coordinate system, north zone. Universal Transverse Mercator grid, zone 11, Western hemisphere

LEGEND

ROAD DATA 1954 PARTLY REVISED 1963

Boundary dashes may be offset for clarity

POPULATED PLACES
- Over 100,000 — LOS ANGELES
- 100,000 to 500,000 — OMAHA
- 25,000 to 100,000 — GALVESTON
- 5,000 to 25,000 — Laramie
- 1,000 to 5,000 — Grand Coulee
- Less than 1,000 — Sun Valley

RAILROADS
- Standard gauge — Single track; Double or more
- Narrow gauge

BOUNDARIES
- International
- State
- County
- Park or reservation

ROADS
- Hard surface, heavy-duty
- More than two lanes wide — 4 LANES
- Two lanes wide, Federal route marker — 2 LANES 66
- Hard surface, medium-duty
- More than two lanes wide — 4 LANES
- Two lanes wide, State route marker — 2 LANES
- Improved light duty
- Unimproved dirt
- Trail

- Landplane airport
- Landing area
- Seaplane airport
- Seaplane anchorage
- Woods; brushwood; Orchard
- Approximate road alinement
- Landmarks: School; Church; Other
- Horizontal control point
- Spot elevation in feet — 221
- Marsh or swamp
- Intermittent or dry stream
- Power line

CONTOUR INTERVAL 200 FEET WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

1960 MAGNETIC DECLINATION FOR THIS UNIT VARIES FROM 20°30' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 21°45' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0°02' WESTERLY

LOCATION DIAGRAM FOR NM 11-10

RELIABILITY DIAGRAM

A. Shown to the nearest 40 feet (12 meters) with 90 percent confidence that the error does not exceed 1/50 inch (0.5 mm) on the publication scale.
B. Shown to the nearest 80 feet (24 meters) with 90 percent confidence that the error does not exceed 1/50 inch (0.5 mm) on the publication scale.
C. Shown to the nearest 80 feet (24 meters) but not meeting the requirements for A or B.

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.

• INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964

TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

OKANOGAN, WASHINGTON
1954
LIMITED REVISION 1963

OLYMPIA, WASHINGTON 98504

Study area boundary

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
Sun Valley

SAND DUNES

Prepared by the Army Map Service (USA), Corps of Engineers, Washington, D.C. Compiled in 1953 by photogrammetric methods and from USGS and AMS photographs 1952, 1950. Horizontal and vertical control by USGS, and C&GS, USCE and U.S. Bureau of Reclamation. Planimetric detail revised by photoplanimetric methods. Photographs flown and dated 1949. Limited revision by U.S. Geological Survey 1965.

100,000-foot grids based on Washington coordinate system, north and south zones

10,000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242

• INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C. 1966

LEGEND

POPULATED PLACES
Over 500,000
100,000 to 500,000
25,000 to 100,000
5,000 to 25,000
1,000 to 5,000
Less than 1,000

RAILROADS
Standard gauge
Narrow gauge

BOUNDARIES
International
State or territorial
County
Park or reservation

Landplane airport
Landing area
Seaplane airport

Lighthouse, Church, Other
Triangulation control point
Spot elevation in feet
Marsh or swamp
Intermittent or dry stream
Power line

ROADS
Hard surface, heavy duty
More than two lanes wide
Two lanes wide, heavy duty
Hard surface, medium duty
More than two lanes wide
Two lanes wide, state, interstate route markers
Improved light duty
Trail

LOCATION DIAGRAM

RELIABILITY DIAGRAM

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

RITZVILLE, WASHINGTON
1953
LIMITED REVISION 1965

GEOLOGICAL SURVEY RESOURCES DIVISION
OLYMPIA, WASHINGTON 98504

Study area boundary

SPOKANE INDIAN RESERVATION

KANIKSU NATIONAL FOREST

COEUR D'ALENE NATIONAL FOREST

COEUR D'ALENE INDIAN RESERVATION

ST JOE NATIONAL FOREST

SPOKANE

Coeur d'Alene

Post Falls

Deer Park

Greenacres

Opportunity

Dishman

Kellogg

Saint Maries

Rathdrum

Tekoa

Rosalia

Colfax

Pullman

Moscow

Lewiston

Clarkston

SELKIRK MOUNTAINS

PURCELL TRENCH

BITTERROOT MOUNTAINS

CLEARWATER MOUNTAINS

HOODOO MOUNTAINS

COEUR D'ALENE MOUNTAINS

ST JOE MOUNTAINS

Study area boundary

Prepared by the Army Map Service (ESCSK), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1955 by photogrammetric methods and from USGS quadrangles 1:24,000, 1:48,000, and 1:62,500, 1943-54. Planimetric detail revised by photo-planimetric methods. Horizontal and vertical control by USGS, USC&GS, USFS and USCE. Map field checked 1955. Limited revision by U.S. Geological Survey 1964.

LEGEND

POPULATED PLACES
Over 500,000 — LOS ANGELES
100,000 to 500,000 — OMAHA
50,000 to 100,000 — GALVESTON
5,000 to 25,000 — Laramie
1,000 to 5,000 — Grand Coulee
Less than 1,000 — Sun Valley

RAILROADS
Standard gauge
Narrow gauge

BOUNDARIES
International
State
County
Park or reservation

ROADS
Hard surface, heavy duty
More than two lanes wide
Two lanes wide, Federal route marker
Hard surface, medium duty
More than two lanes wide
Two lanes wide, State, Interstate route markers
Improved light duty
Unimproved dirt
Trail

Landmarks: School, Church, Other
Landplane airport
Landing area
Seaplane airport
Seaplane anchorage
Woods or brushwood
Intermittent or dry stream
Power line
Approximate road alignment

Scale 1:250,000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

1960 MAGNETIC DECLINATION FOR THIS SHEET RANGES FROM 21°00' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 20°30' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0°04' WESTERLY.

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D.C.

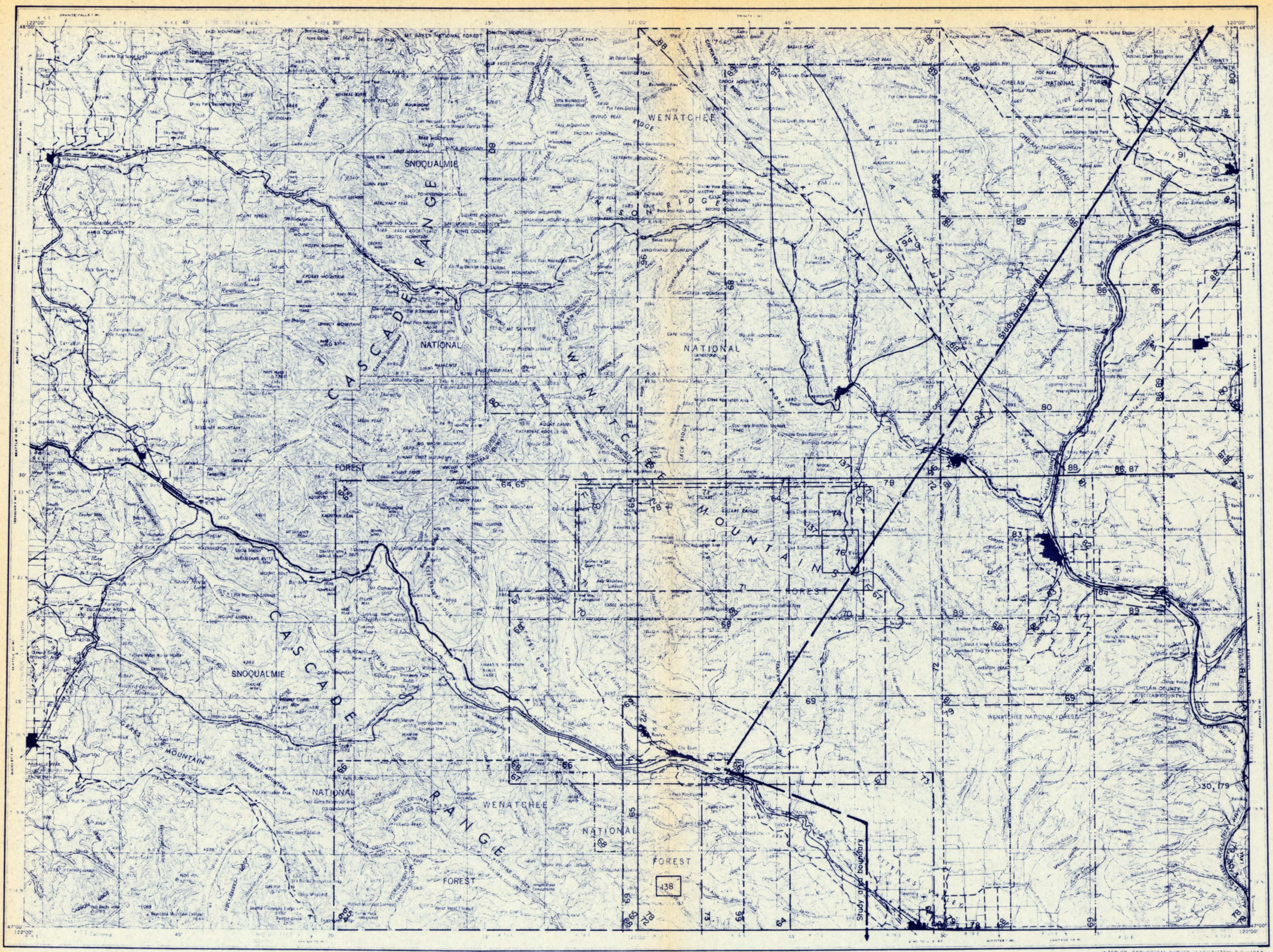
LOCATION DIAGRAM

RELIABILITY DIAGRAM

SECTIONIZED TOWNSHIP

SPOKANE, WASHINGTON; IDAHO; MONTANA
1955
Limited revision 1964

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1965



Prepared by the Army Map Service (HYBM), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1948 by photogrammetric methods and from United States Quadrangles 1:24,000 USGS 1953. Planimetric detail revised by photogrammetric methods. Horizontal and vertical control by USC&GS, USGS, and CE. Photography field annotated 1957. Surveyed or compiled by U.S. Geological Survey 1963.

LEGEND

ROAD DATA 1957 PARTIALLY REVISED 1963

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee

Scale 1:250.000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

INDEX DIAGRAM FOR NL 10-3

RELIABILITY DIAGRAM

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TOWNSHIP OR RANGE LINE

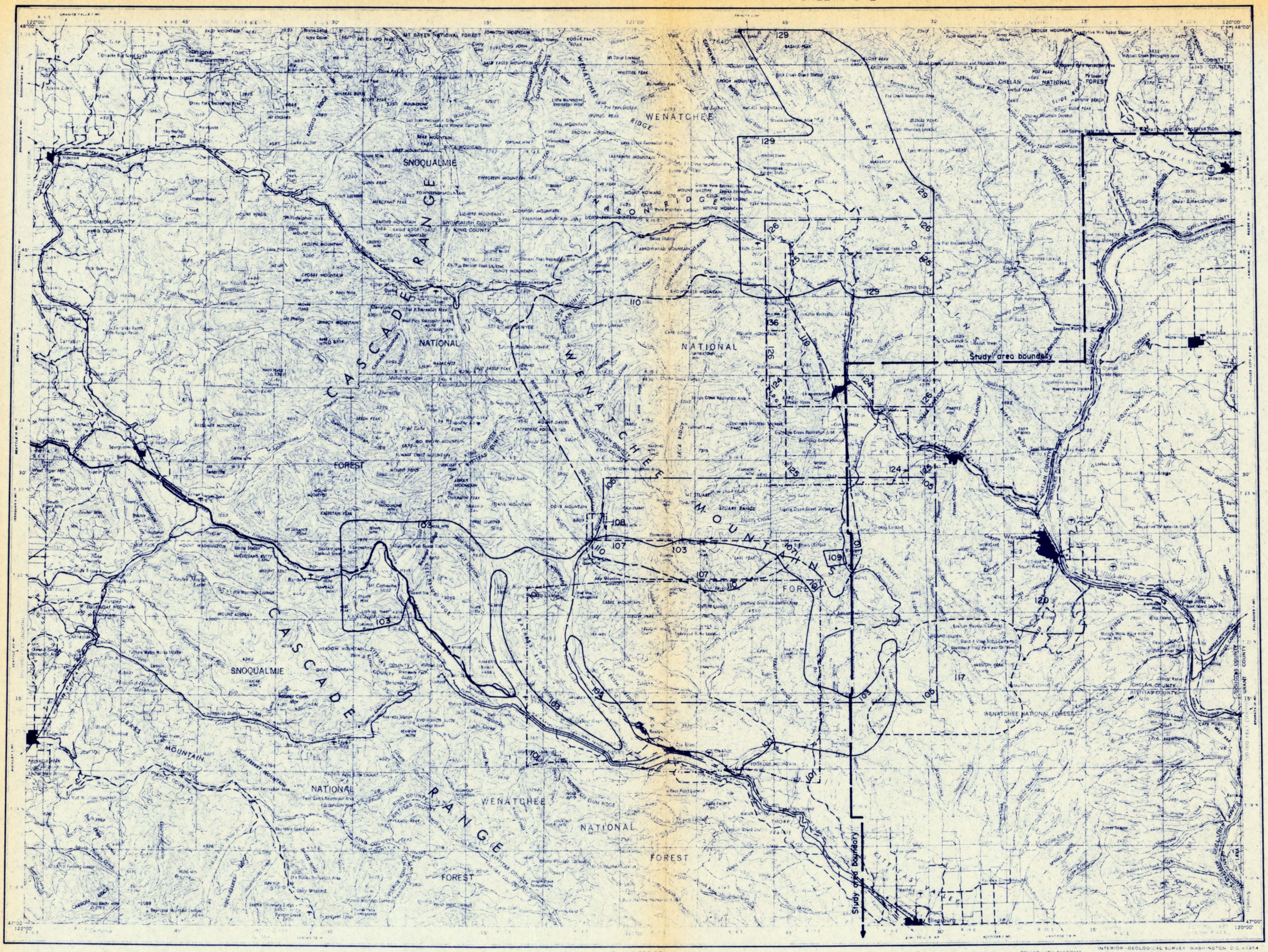
LAND GRANT BOUNDARY

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964

WENATCHEE, WASHINGTON

1957


WENATCHEE
SNOQUALMIE
NATIONAL
FOREST
CASCADE RANGE
WENATCHEE MOUNTAINS
NASON RIDGE
CHELAN NATIONAL FOREST
CHELAN MOUNTAINS
Study area boundary
Study area boundary
WENATCHEE NATIONAL FOREST
KITTITAS VALLEY
Ellensburg
Wenatchee
Cle Elum
Scale 1:250,000
CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION
LEGEND
ROAD DATA 1957 PARTIALLY REVISED 1963
LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
LOCATION DIAGRAM FOR NL 10-3
RELIABILITY DIAGRAM
SECTIONIZED TOWNSHIP
TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY
INTERIOR—GEOLOGICAL SURVEY WASHINGTON D.C.—1954
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
WENATCHEE, WASHINGTON
1957

WENATCHEE

OLYMPIA, WASHINGTON 98504

Prepared by the Army Map Service (HYBM), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1958 by photogrammetric methods and from United States Quadrangles 1:24,000 USGS, 1953. Planimetric detail revised by photoplanimetric methods. Horizontal and vertical control by USC&GS, USGS and CE. Photography field annotated 1957. Limited revision by U.S. Geological Survey 1963

100,000-foot grid ticks based on Washington coordinate system, north and south zones

10,000-meter Universal Transverse Mercator grid ticks, zone 10 shown in blue

LEGEND
ROAD DATA 1957 PARTIALLY REVISED 1963

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee

Scale 1:250,000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964

LOCATION DIAGRAM FOR NL 10-3

RELIABILITY DIAGRAM

TOWNSHIP OR RANGE LINE

LAND GRANT BOUNDARY

SECTIONIZED TOWNSHIP

WENATCHEE, WASHINGTON
1957

WESTERN UNITED STATES 1:250,000

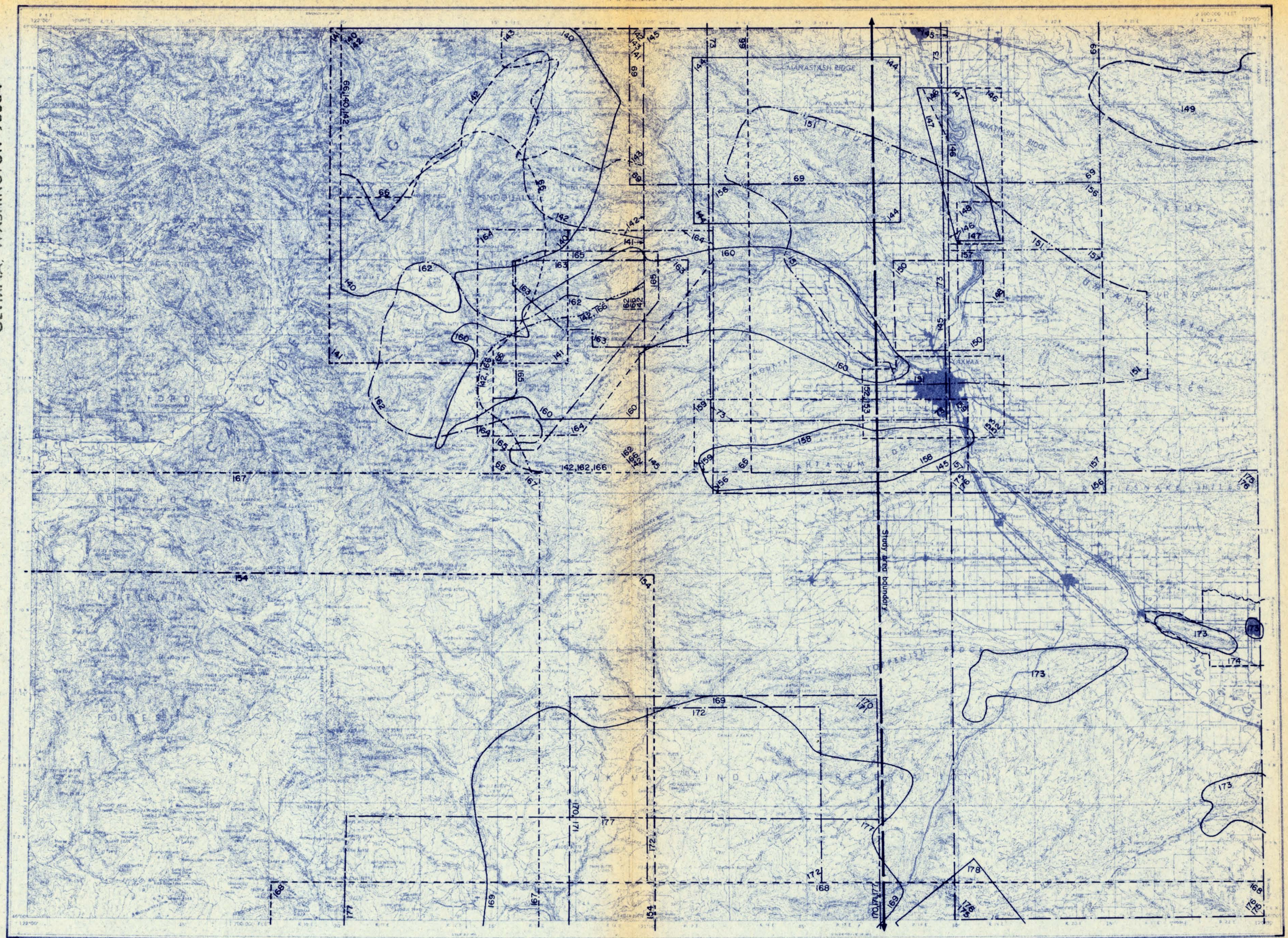
INDEX TO GEOLOGIC MAPPING

YAKIMA

SHEET E

NL 10-6

OLYMPIA, WASHINGTON 98504



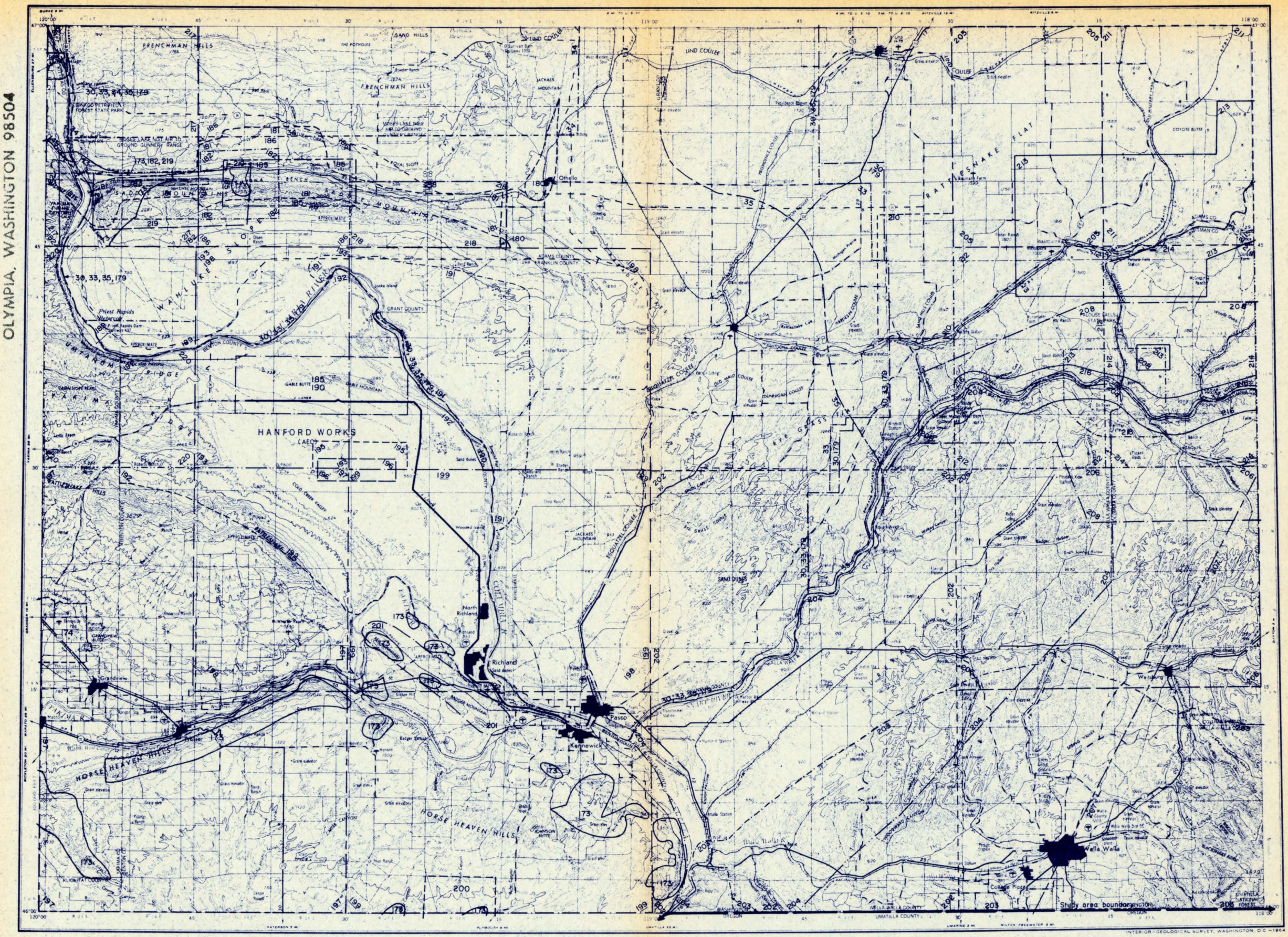
Scale 1:250,000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.

YAKIMA, WASHINGTON
1956

OLYMPIA, WASHINGTON 98504



Prepared by the Army Map Service (KCSX), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1956 by photogrammetric methods and from USGS and AMS quadrangles: 1:50,000 and 1:62,500, 1948-51. Horizontal and vertical control by USGS, USC&GS and USGE. Planimetric detail revised by photo-planimetric methods. Photography field annotated 1953. Limited revision by U.S. Geological Survey 1963.

100,000-foot grid based on Washington coordinate system, south zone

10,000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

LEGEND

ROAD DATA 1953 PARTIALLY REVISED 1963

Figures in red denote approximate distances in miles between stars

POPULATED PLACES

Over 500,000 — LOS ANGELES

100,000 to 500,000 — OMAHA

25,000 to 100,000 — GALVESTON

5,000 to 25,000 — Laramie

1,000 to 5,000 — Grand Coulee

Less than 1,000 — Sun Valley

RAILROADS

Standard gauge — Single track, Double or Multiple

Narrow gauge

BOUNDARIES

International

State

County

Park or reservation

Landplane airport

Landing area

Seaplane airport

Orchard

Woods brushwood

Approximate road alignment

ROADS

Hard surface, heavy duty — More than two lanes wide — 3 LANES, 4 LANES

Two lanes wide, Federal route marker — 155

Hard surface, medium duty — More than two lanes wide — 3 LANES, 4 LANES

Two lanes wide, State, Interstate route markers — 15, 16

Improved light duty

Dirt

Trail

Landmarks: School; Church; Other

Horizontal control point; Wind mill

Spot elevation in feet — 227

Marsh or swamp

Intermittent or dry stream

Power line

Scale 1:250,000

20 Statute Miles

30 Kilometers

15 Nautical Miles

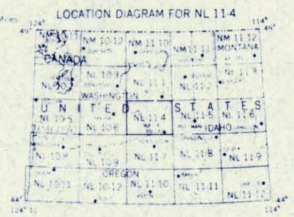
CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

1960 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 21°00' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 20°30' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0°02' WESTERLY

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D.C.

LOCATION DIAGRAM FOR NL 11-4



RELIABILITY DIAGRAM

A. Large Scale topographic maps compiled 1:20,000
1. Stereo-compiled from aerial photography
2. Planimetry revised from aerial photography

SECTION/TBE TOWNSHIP

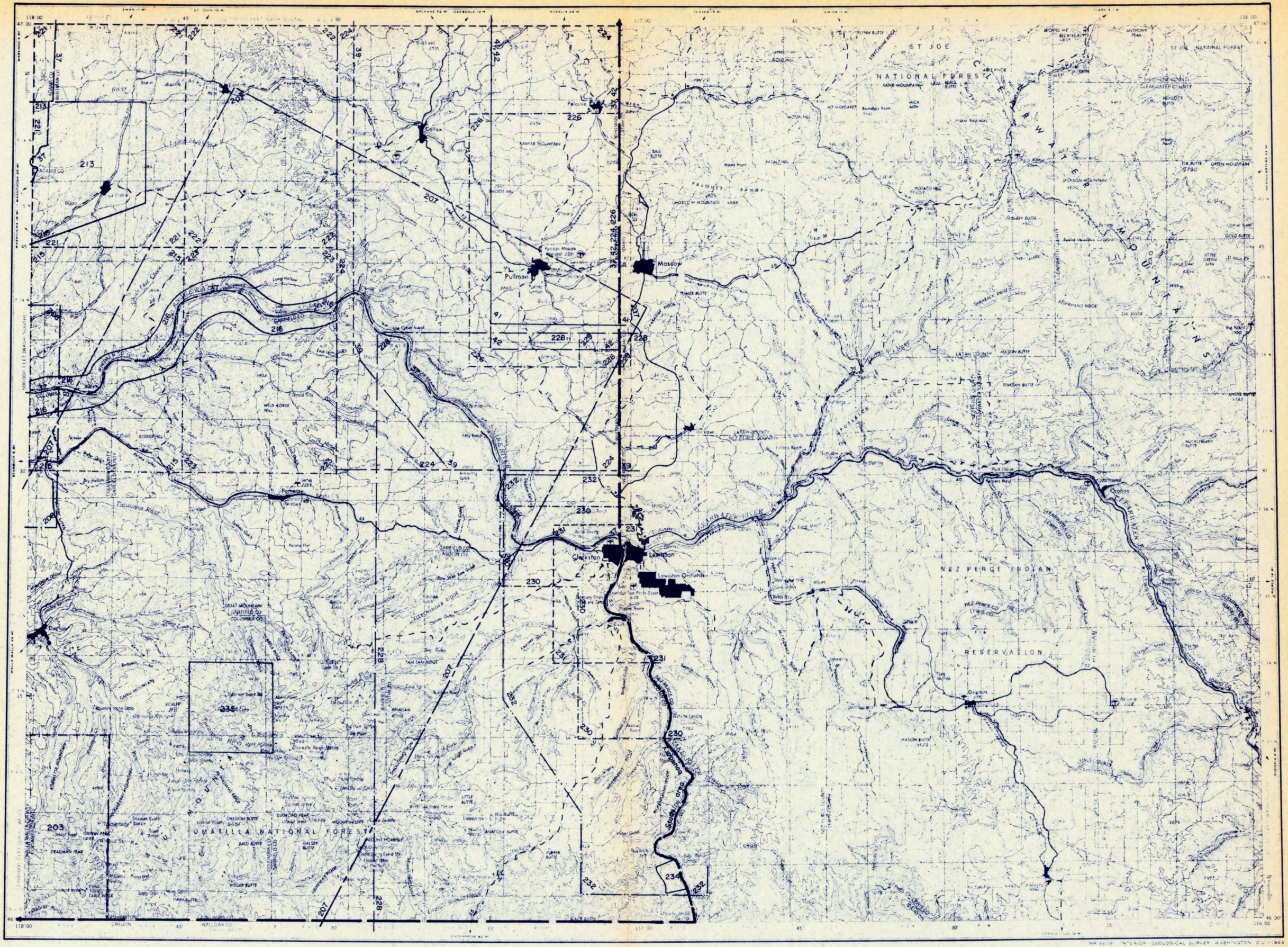
TOWNSHIP OR RANGE LINE

LAND GRANT BOUNDARY

WALLA WALLA, WASHINGTON; OREGON

1953

LIMITED REVISION 1963



LEGEND

POPULATED PLACES

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
Sun Valley

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

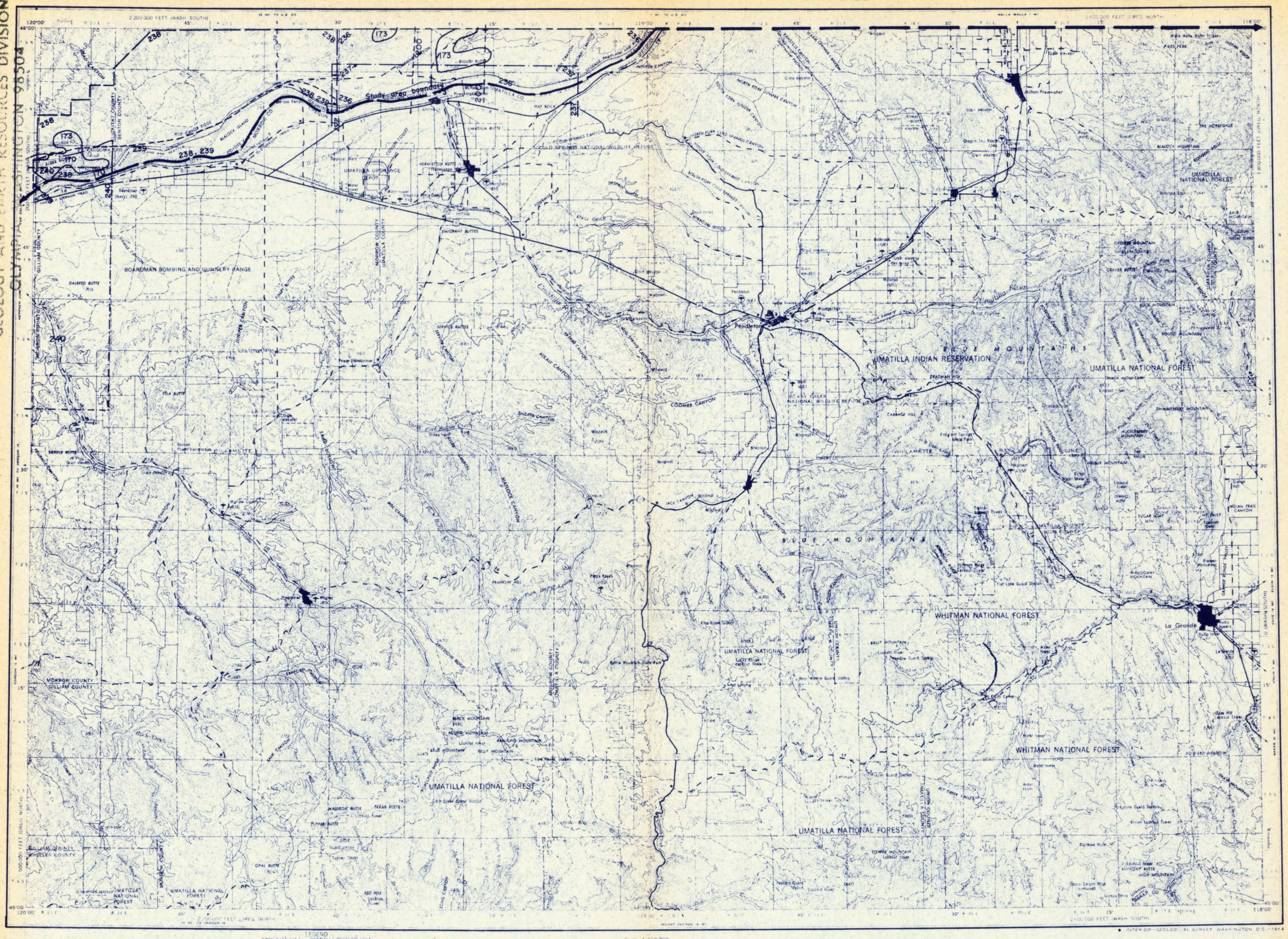
LOCATION DIAGRAM FOR NL 11-5

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.

PULLMAN, WASHINGTON, IDAHO
1955

GEOLOGY AND EARTH RESOURCES DIVISION OLYMPIA, WASHINGTON 98504

PENDLETON



Prepared by the Army Map Service (AMS), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1949 by photogrammetric methods. Horizontal and vertical control by USGS and USCGS and USCE Aerial Photographs, 1950. Photographs field annotated 1953. Limited revision by U.S. Geological Survey 1964

100,000-foot grids based on Oregon coordinate system, north zone and Washington coordinate system, south zone

10,000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

LEGEND

ROAD DATA 1953 PARTIALLY REVISED 1964

Figures within tenths of a statute mile between markers

ROADS

Hard surface, heavy duty

Hard surface, medium duty

More than two lanes, median strip

Two lanes, good surface, loose gravel or dirt shoulders

Unimproved dirt

Trail

POPULATED PLACES

Over 500,000 — LOS ANGELES

100,000 to 500,000 — OMAHA

50,000 to 100,000 — GALVESTON

10,000 to 50,000 — Laramie

Less than 10,000 — Grand Coulee, Sun Valley

RAILROADS

Standard gauge — Single track, Multiple track

Narrow gauge — Single track, Multiple track

BOUNDARIES (International, State, County, Park or Reservation)

Landing area, Landing strip, Seaplane anchorage, Radio station, Weather bureau, Lighthouse, Mine or quarry, Mine dump, Prospect, Gravel pit, Tunnel, Cave entrance, Spring, Falls, Rapids, Wreck (visible), Wreck (submerged), Rock (awash), Rock (submerged), Obstruction, Foul ground, Sounding, Channel buoy, Other aids to navigation

Intermittent stream

Aqueduct tunnel

Aqueduct siphon

Levee

Dam

Canal, flume, or aqueduct with locks

Large rapids

Small rapids

Intermittent lake or wash

Glacier

Marsh or swamp

Submerged marsh or swamp

Mangrove

Orchard

Vineyard

Scale 1:250,000

CONTOUR INTERVAL 200 FEET

WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

1960 MAGNETIC DECLINATION AT CENTER OF EAST EDGE VARIES FROM 20°30' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 20°50' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE 0°10' WESTERLY

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.

LOCATION DIAGRAM FOR NL 11-7

TOWNSHIP OR RANGE LINE

LAND GRANT BOUNDARY

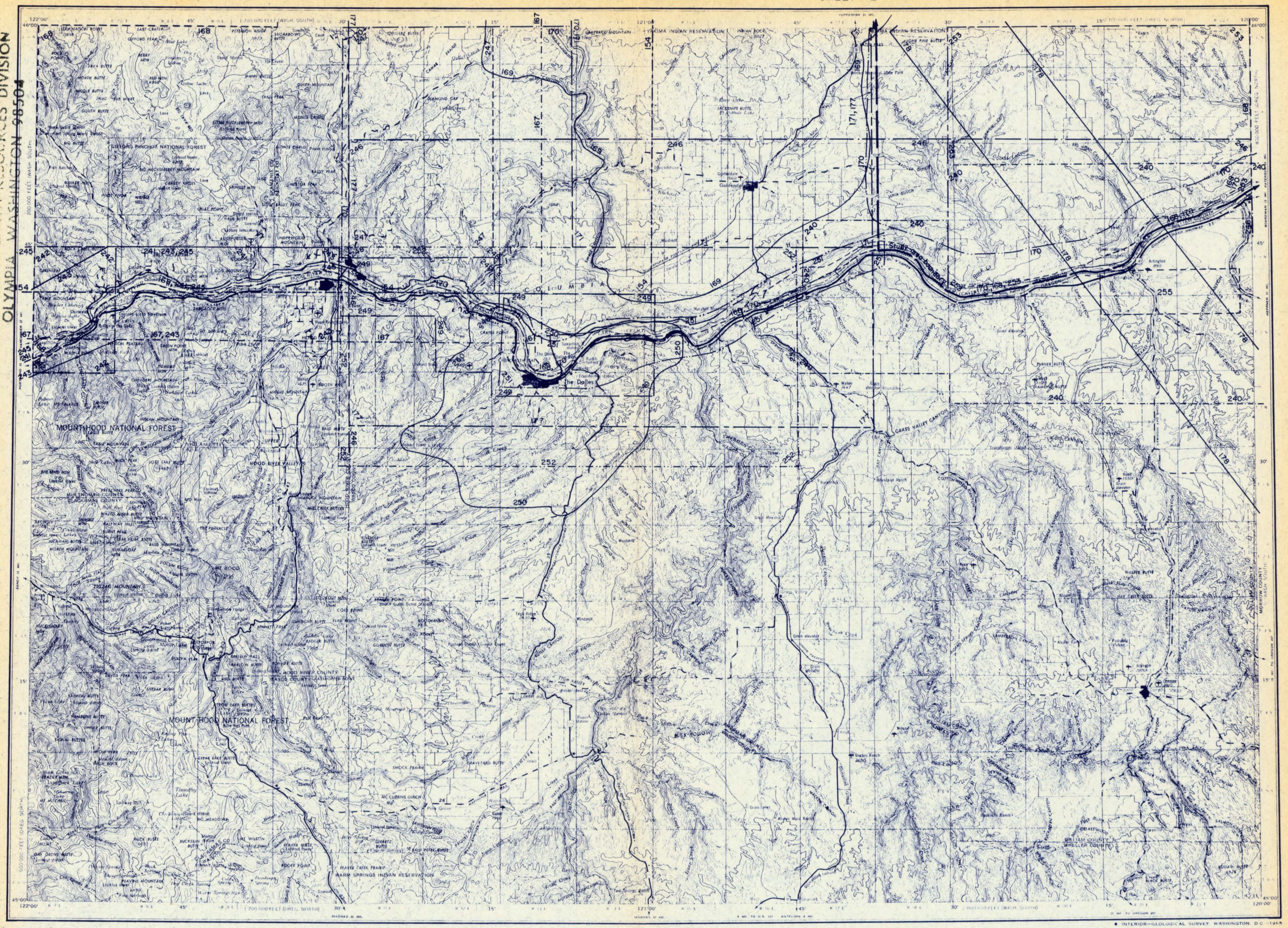
SECTIONIZED TOWNSHIP

PENDLETON, OREGON; WASHINGTON

1953

• INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964

GEOLOGY AND EARTH RESOURCES DIVISION
OLYMPIA, WASHINGTON 98504



• INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1965

Prepared by the Army Map Service (AMSX), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1954 by photogrammetric methods. Horizontal and vertical control by USGS and USC&GS. Aerial photography, 1952. Photography field annotated 1953. Limited revision by U.S. Geological Survey 1964.

100,000 foot grid based on Oregon coordinate system, north zone and Washington coordinate system, south zone.

10,000 meter Universal Transverse Mercator grid ticks, zone 10, shown in blue.

LEGEND

ROAD DATA 1956 PARTIALLY REVISED 1964
Figures in red denote approximate distances in miles between stars

POPULATED PLACES
Over 500,000 — LOS ANGELES
100,000 to 500,000 — OMAHA
25,000 to 100,000 — GALVESTON
5,000 to 25,000 — Laramie
1,000 to 5,000 — Grand Coulee
Less than 1,000 — Sun Valley

RAILROADS
Standard gauge — Single track, Double or Multiple
Narrow gauge

BOUNDARIES
International
State
County
Park or reservation

Landplane airport
Landing area
Seaplane airport
Orchard
Woods-brushwood

ROADS
Hard surface, heavy duty
More than two lanes wide — 3 LANES | 4 LANES
Two lanes wide; Federal route marker — 15
Hard surface, medium duty
More than two lanes wide — 3 LANES | 4 LANES
Two lanes wide; State, Interstate route markers — 8 — 86
Improved light duty
Unimproved dirt
Trail

Landmarks: School; Church; Other
Horizontal control point
Spot elevation in feet
Marsh or swamp
Intermittent or dry stream
Power line

Approximate road alinement

Scale 1:250,000

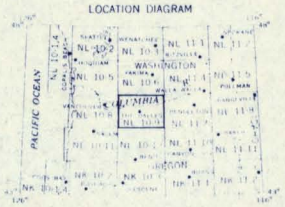
5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
5 0 5 10 15 Nautical Miles

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

1960 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 21°00' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 20°30' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0°02' WESTERLY

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242

LOCATION DIAGRAM



SECTIONIZED TOWNSHIP

TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

THE DALLES, OREGON, WASHINGTON
1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

INDEX TO GEOPHYSICAL SURVEYS — WASHINGTON — Sheet J

WASHINGTON

WASHINGTON

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