



Scale prepared by the Army Map Service (BAM), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1953 by photogrammetric methods and from: North Dakota, 1:62,500, USGS, Sheets Niagara, 1939; Larimore, 1936; Emerald, 1942; North Dakota-Minnesota, 1:62,500, USGS, Grand Forks, 1948. Photometric detail revised by photogrammetric methods. Horizontal and vertical control by USCGS, USGS, and CE. Photography field annotated 1952.

100,000-FOOT PLANE COORDINATE GRID TICK SYMBOLS

INDEX TO COUNTY BOUNDARIES

PLANE COORDINATE ZONES

HORIZONTAL CONTROL

Coast & Geodetic Survey

Geological Survey

Monumented Point - First Order

Monumented Point - Second Order

Monumented Point - Third Order

Located Object - Third Order

See separate index for names of numbered stations

Station reported not recovered

Measured Base - Electronic or Taped

Line of triangulation observed

Line of triangulation observed from one end only

Measured Length - Electronic or Taped

Theodolite Traverse - Electronic Distance

Transit Traverse - Taped Distance Third Order

Transit Traverse and Leveling Third Order

VERTICAL CONTROL

Coast & Geodetic Survey

Geological Survey

First Order

Second Order

Third Order

STATE SURVEY CONTROL

Horizontal or Vertical

Hand surface, heavy duty

More than two lanes wide

Two lanes wide; Federal route marker

Hand surface, medium duty

More than two lanes wide

Two lanes wide; State route marker

Improved light duty

Dirt

Trail

Scale 1:250,000

SECTIONIZED TOWNSHIP

TRANSVERSE MERCATOR PROJECTION

LOCATION DIAGRAM FOR NL 14-3

TOWNSHIP OR RANGE LINE

LAND GRANT BOUNDARY

LEGEND ROAD DATA 1953

RAILROADS

Single track Double or Multiple

Narrow gauge

Standard gauge

Spot elevation in feet

Landmarks: School; Church; Other

Horizontal control point

Spot elevation in feet

Marsh or swamp

Intermittent or dry stream

Power line

COAST AND GEODETIC SURVEY

THIRTY MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

COUNTY DESIGNATIONS

1 Nelson

2 Grant

3 Steele

4 Beak

5 Clay

6 Traill

7 Grand Forks

8 Polk

9 Norman

10 Clay

11 Becker

12 Mahanomen

13 Red Lake

14 Regis

GEOLOGICAL SURVEY

FIFTEEN MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

COUNTY DESIGNATIONS

1 Nelson

2 Grant

3 Steele

4 Beak

5 Clay

6 Traill

7 Grand Forks

8 Polk

9 Norman

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11 Becker

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14 Regis

ORDER CONTROL DATA IN BLACK BY 30 MINUTE QUADRANGLE UNITS FROM DIRECTOR, COAST AND GEODETIC SURVEY, WASHINGTON 25, D. C.

ORDER CONTROL DATA IN RED BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON 25, D. C.

GRAND FORKS, N. DAKOTA, MINNESOTA (NL 14-3) AUGUST 1962

INDEX TO
 NUMBERED HORIZONTAL CONTROL STATIONS
 by the
 Coast and Geodetic Survey

QUADS 470961-2-3-4 & 470971-2-3-4
 MINN-N DAK
 LATITUDE 47°00' TO 48°00'
 LONGITUDE 96°00' TO 98°00'
 DIAGRAM NL 14-3 GRAND FORKS

KEY NO.	STATION NAME	QUAD NO.	STATION NO.
1.	HUNTER GRAIN CO ELEVATOR, WEST VENTILATOR		
2.	GRANDIN, FARMERS GRAIN CO, ELEVATOR		
3.	BLABON, ST ANTHONY & DAKOTA ELEVATOR CO, ELEVATOR		
4.	FINLEY, LUTHERAN CHURCH, SPIRE		
5.	FINLEY, FARMERS GRAIN & ELEVATOR CO, ELEVATOR FINLEY, MUNICIPAL WATER TANK		
6.	GRAND FORKS, N. DAKOTA UNIV., RADIO STATION KFJM, MAST GRAND FORKS UNIV. OF N. DAKOTA STACK GRAND FORKS UNIV. OF N. DAKOTA, WATER TANK		
7.	BUXTON, FARMERS UNION ELEVATOR CO, ELEVATOR		
8.	REYNOLDS, FARMERS ELEVATORS CO, ELEVATOR NO 1 REYNOLDS, CATHOLIC CHURCH, SPIRE		
9.	GRAND FORKS, MUNICIPAL WATER TANK		
10.	GRAND FORKS, RUSSEL MILLER MILLING CO, TANK		
11.	PERLEY, FARMERS COOP ELEVATOR, VENTILATOR		
12.	BORUP 2 BORUP, FARMERS UNION GRAIN CO ELEVATOR, MIDDLE LIGHTNING ROD BORUP, ELEVATOR, SLENDER TOP BORUP, TALL ELEVATOR BORUP, CHURCH SPIRE BM E5		
13.	TWIN VALLEY, TALL ELEVATOR SLENDER TOP TWIN VALLEY, WHITE CHURCH SPIRE TWIN VALLEY, STANDPIPE		
14.	ADA, COURTHOUSE, TOWER ADA, SCHOOLHOUSE, CUPOLA ADA, KENWAL POTATO CO, STACK		
15.	ADA, MUNICIPAL TANK ADA, STANDPIPE		
16.	T147N, R47W, SEC 23, 24, 25, 26		
17.	BELTRAMI, SOUTH ELEVATOR, SLENDER TOP BELTRAMI, NORTH ELEVATOR		
18.	POLK COUNTY MARK NEAR LIBERTY		
19.	BM X 316		
20.	BM G 317		
21.	RUSSIA, ELEVATOR GREENVIEW FARMERS UNION ELEVATOR, MIDDLE LIGHTNING ROD		
22.	ELDRED, NE TALL ELEVATOR ELDRED, SW LOW ELEVATOR ELDRED, FARMERS ELEVATOR CO, ELEVATOR ELDRED, ST ANTHONY & DAKOTA ELEVATOR CO, ELEVATOR		
23.	ELDRED, FIRST ENGLISH EVANGELICAL LUTHERAN CHURCH, SPIRE		
24.	CROOKSTON, BRICKYARD CHIMNEY		
25.	CROOKSTON, CATHOLIC CHURCH, SPIRE		
26.	CROOKSTON CROOKSTON, STANDPIPE CROOKSTON, HIGH SCHOOL, CUPOLA CROOKSTON, CATHOLIC CATHEDRAL, SPIRE CROOKSTON, INTERSTATE POWER SYSTEM, WATER TANK		
27.	CROOKSTON, COURTHOUSE, DOME		
28.	CROOKSTON, SUNNYREST SANITARIUM, STACK		
29.	CROOKSTON, FARMERS UNION GRAIN ASSN, ELEVATOR		
30.	FISHER, FARMERS COOP ELEVATOR CO, ELEVATOR FISHER, CASE GRAIN CO, ELEVATOR		

KEY NO.	STATION NAME	QUAD NO.	STATION NO.
31.	GRAND FORKS, SOUTH MUNICIPAL WATER TANK		
32.	GRAND FORKS STATE MILL & GRAIN ASS'N, STACK GRAND FORKS, RADIO STATION KNOX, MAST		
33.	GRAND FORKS APB, NORTHEAST WATER TANK		
34.	GRAND FORKS APB, WATER TANK NO 234		
35.	GRAND FORKS APB, WATER TANK NO 537		
36.	EMERADO, FARMERS COOP ELEVATOR		