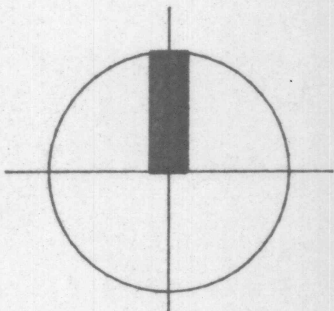


WELLS PROPOSED

WELL SITE "A-4"
220' North, 520' East
from the Southwest corner
sec. 17, T.18S, R.12E, W.M.



NORTH

SCALE 1:24000

REVISED 12/14/94
6/6/96

Shawlin Fork

T. 17 S.

T. 18 S.

R. 11 E.

R. 12 E.

1772 111 NE
TUMALO.

BEND QUADRANGLE
OREGON-DESCHUTES COUNTY
7.5 MINUTE SERIES(TOPOGRAPHIC)

Foreman Butte

WELLS IN PRODUCTION

WELL SITE "A"
2400' South, 1800' West
from the Northeast corner
sec. 13, T.18S, R.12E, W.M.
20,000 gal. res.

WELL SITE "B"
well no.1:
1380' South, 1500' West
from the Northeast corner
sec. 19, T.18S, R.12E, W.M.
100,000 gal. res.

well no. 2:
1360' South, 1490' West from
the Northeast corner Sec.19
T.18S, R.12E W.M. (SW 1/4, SE 1/4)

WELL SITE "C"
well no.1:
2225' South, 315' West
from the Northeast corner
sec. 21, T.18S, R.12E, W.M.

well no.2:
2260' South, 300' West
from the Northeast corner
sec. 21 T.18S, R.12E, W.M.

well no.3:
2240' South, 310' West
from the Northeast corner
sec. 21 T.18S, R.12E, W.M.
3,000,000 gal. res.
located on China Hat Road

WELL SITE "E"
well no. 1:
1019' North, 640' West
from the Southeast corner
sec. 18, T.18S, R.12E, W.M.

well no. 2:
1030' North, 640' West from
the SE corner of sec. 18,
R.12E, WM (SE 1/4, SE 1/4)

WELLS IN RESERVE

WELL SITE "D"
well no.1: reserve
1550' South, 1700' East
from the Northwest corner
sec. 8, T.17S, R.12E, W.M.

well no.2: reserve
1600' South, 1680' East
from the Northwest corner
sec. 8 T.17S, R.12E, W.M.

well no.3: reserve
1700' South, 1780' East
from the Northwest corner
sec. 8 T.17S, R.12E, W.M.
30,000 gal. res.

WELL SITE "F"

well no. 1:
75' North, 100' West
from the Southeast corner
sec. 6, T.18S, R.12E, W.M.

well no. 2:
90' North, 95' West
from the Southeast corner
sec.6, T.18S, R.12E, W. M.

WELL SITE "G"

well no. 1:
264' North, 947' West
from the Southeast corner
sec. 3, T.18S, R.12E, W.M.

well no. 2:
274' North, 937' West
from the Southeast corner
sec.3, T.18S, R.12E, W. M.

WELL SITE "H"

well no. 1:
400' South, 200' West
from the North quarter
corner sec. 3, T.18S,
R.12E, W.M.

well no. 2:
400' South, 86' West
from the North quarter
corner sec.3, T.18S,
R.12E, W. M.

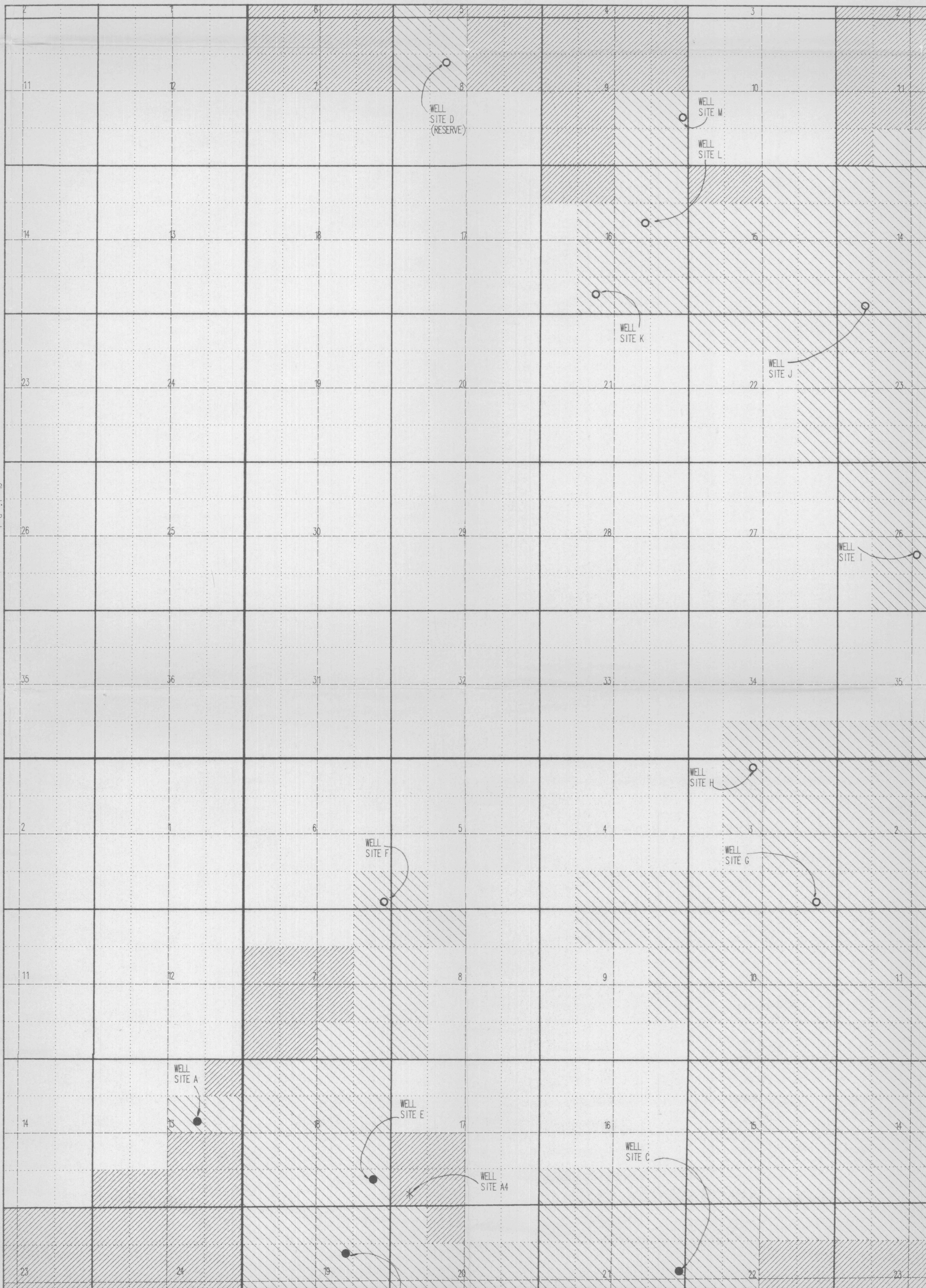
WELL SITE "I"
868' South, 116' East
from the Center quarter
corner sec. 26, T.17S,
R.12E, W.M.

WELL SITE "J"
343' North, 892' East
from the Southwest corner
sec. 14, T.17S, R.12E, W.M.

WELL SITE "K"
1973' South, 575' West
from the Center quarter
corner sec. 16, T.17S,
R.12E, W.M.

WELL SITE "L"
1425' South, 1950' West
from the Northeast corner
sec. 16, T.17S, R.12E, W.M.

WELL SITE "M"
312' North, 12' West
from the Southeast corner
sec. 9, T.17S, R.12E, W.M.



Field review of well
sites completed:

Application No. G12924
Permit No. G12788

RECEIVED

JUN 13 1996

WATER RESOURCES DEPT.
SALEM, OREGON

1772 111 NE
TUMALO.

WELLS IN PRODUCTION

WELL SITE "A"
2400' South, 1800' West
from the Northeast corner
sec. 13, T18S, R.12E, W.M.
20,000 gal. res.

WELL SITE "B"
1380' South, 1500' West
from the Northeast corner
sec. 19, T18S, R.12E, W.M.
100,000 gal. res.

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30,000 gal. res.

WELL SITE "E"
1019' North, 640' West
from the Southeast corner
sec. 18, T18S, R.12E, W.M.

WELLS IN RESERVE

WELL SITE "F"
well no. 1:
75' North, 100' West
from the Southeast corner
sec. 6, T18S, R.12E, W.M.

well no. 2:
90' North, 95' West
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sec.6, T18S, R.12E, W. M.

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well no. 2:
400' South, 86' West
from the North quarter
corner sec.3, T18S,
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WELL SITE "I"
868' South, 116' East
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343' North, 892' East
from the Southwest corner
sec. 14, T17S, R.12E, W.M.

WELL SITE "K"
1973' South, 575' West
from the Center quarter
corner sec. 16, T17S,
R.12E, W.M.

WELL SITE "L"
1425' South, 1950' West
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sec. 16, T17S, R.12E, W.M.

WELL SITE "M"
312' North, 12' West
from the Southeast corner
sec. 9, T17S, R.12E, W.M.

RECEIVED

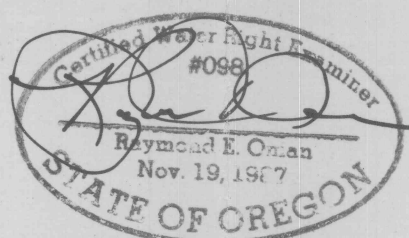
OCT 30 1992

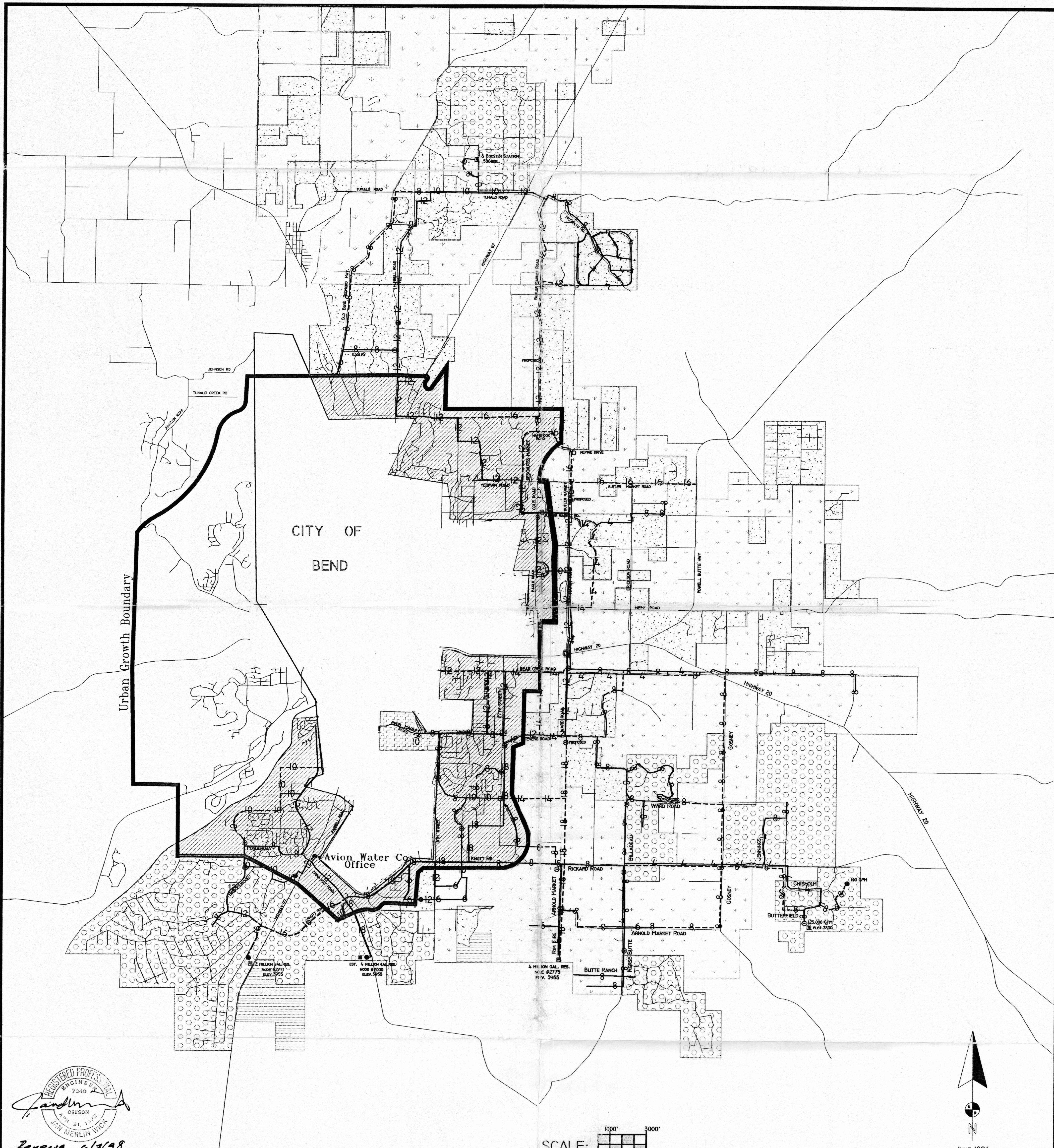
WATER RESOURCES DEPT.
SALEM, OREGON

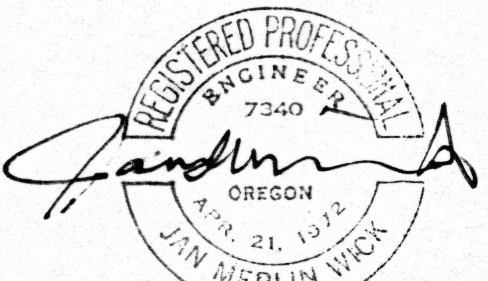


FIELD REVIEW of WELL SITES
COMPLETED 29 JULY 1991 BY:

RAYMOND E. OMAN
LAND SURVEYOR
60898 RIDGE DRIVE
BEND, OR 97702



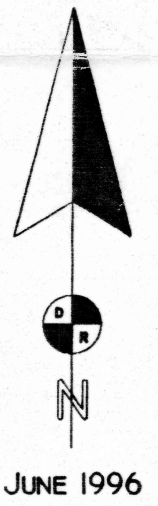



 Renewed 6/3/98

Legend for Pipelines and Zones		
4" Existing Pipe	-4-	Residential /Urban standard
6" Existing Pipe	-6-	
8" Existing Pipe	-8-	Light Industry
8" Proposed Pipe	-8--	
10" Existing Pipe	-10-	Multi-use Agricultural
10" Proposed Pipe	-10--	
12" Existing Pipe	-12-	Rural Residential
12" Proposed Pipe	-12--	
14" Existing Pipe	-14-	Forest Use 2
14" Proposed Pipe	-14--	
16" Proposed Pipe	-16--	
18" Existing Pipe	-18-	EFU Tumalo/Redmond/Bend Subzone
18" Proposed Pipe	-18--	

Avion Water Company

BEND AREA MASTER PLAN



JUNE 1996

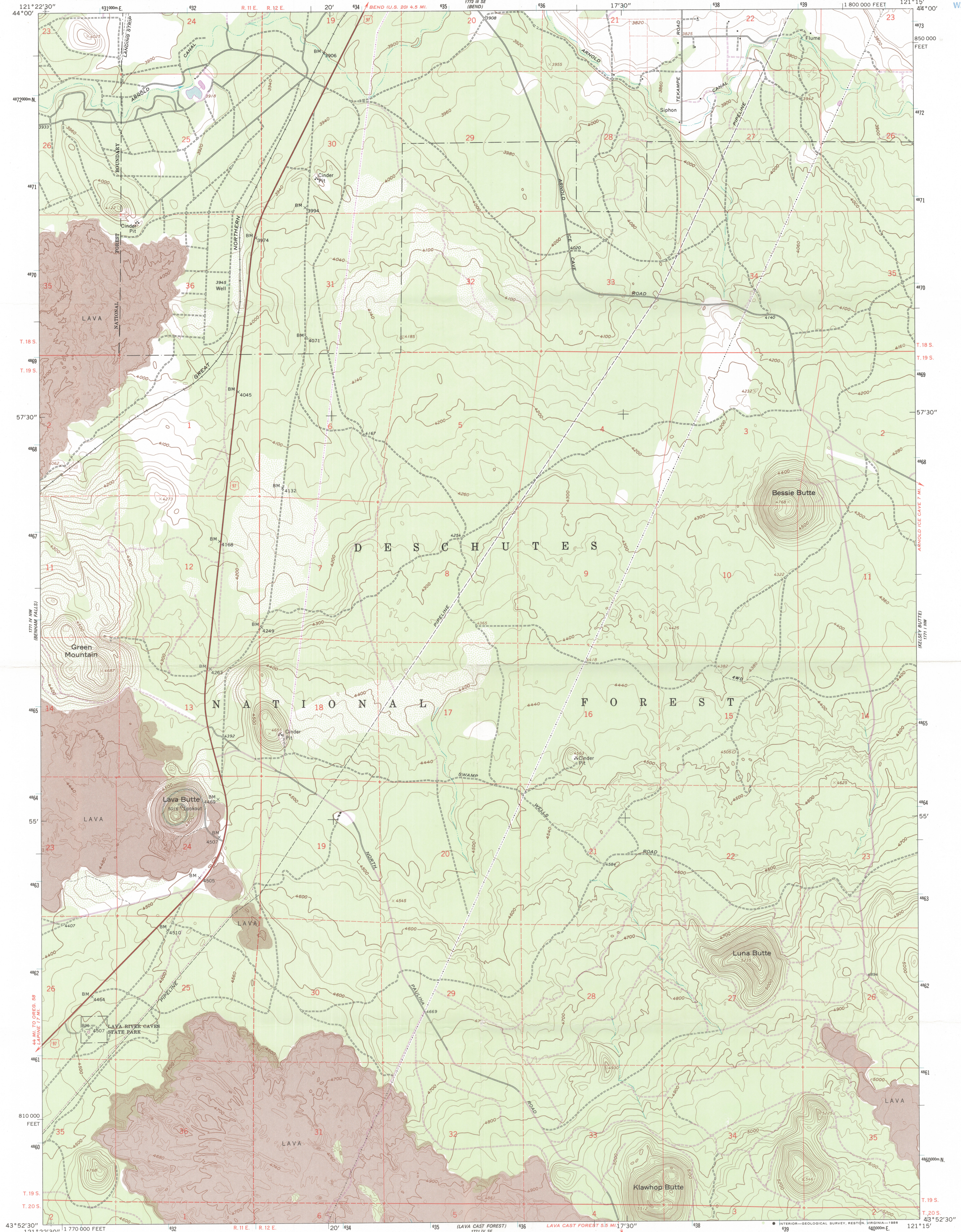
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAVA BUTTE QUADRANGLE
OREGON-DESCHUTES CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

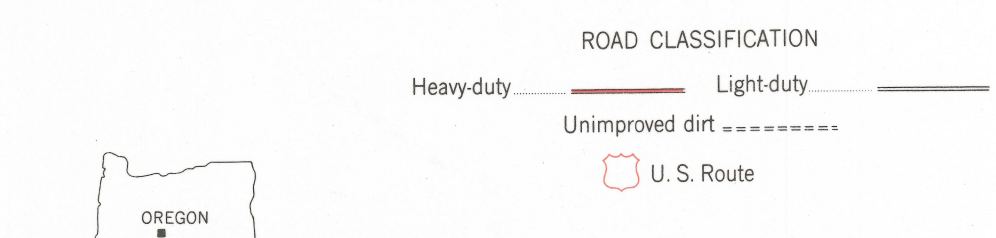
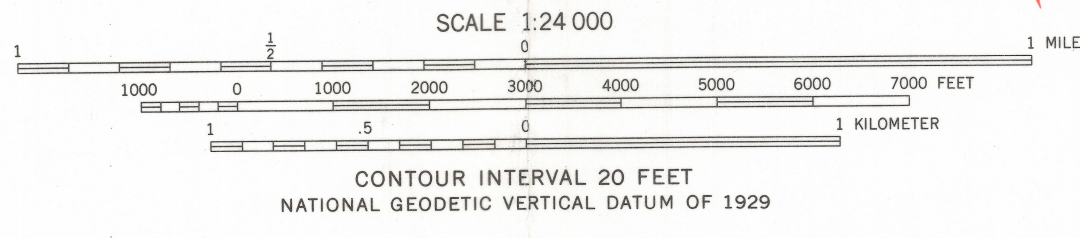
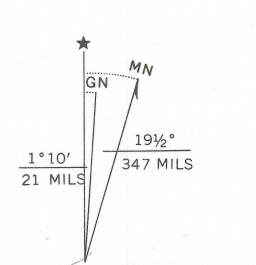
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MAY 18 1992

WATER RESOURCES DEPT.
SALEM, OREGON



Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial
photographs taken 1957. Field checked 1963.
Polyconic projection. 1927 North American datum
10,000-foot grid based on Oregon coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks,
zone 10, shown in blue
To place on the predicted North American Datum 1983
move the projection lines 21 meters north and
92 meters east as shown by dashed corner ticks
Fine red dashed lines indicate selected fence lines
There may be private inholdings within the boundaries of
the National or State reservations shown on this map



LAVA BUTTE, OREG. G-12924
43121-H3-TF-024

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple compiled by the U.S. Forest Service
from aerial photographs taken 1979 and other source data
This information not field checked. Map edited 1981

1963
PHOTOREVISED 1981
DMA 1771 IV NE-SERIES V892

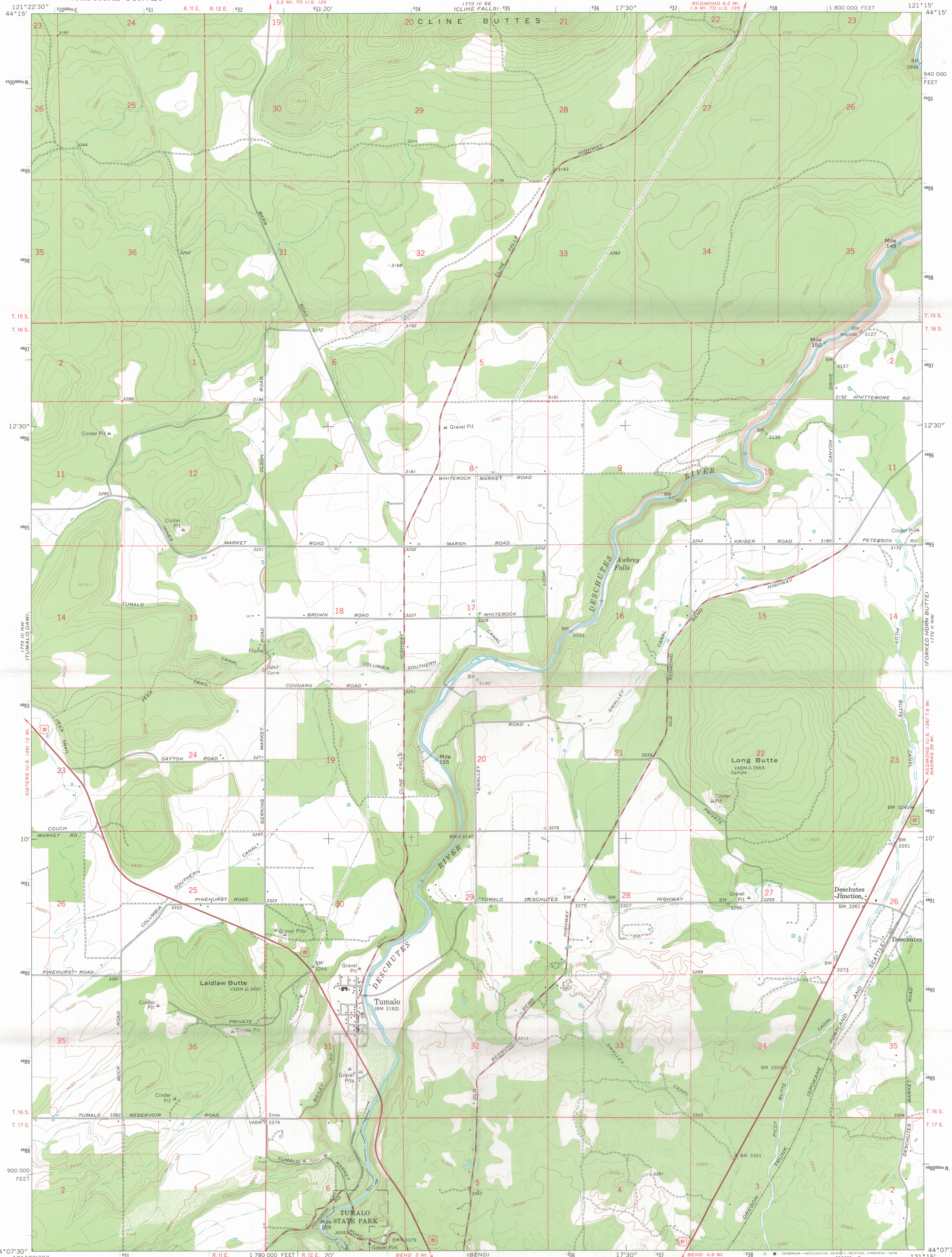
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TUMALO QUADRANGLE
OREGON-DESCHUTES CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

RECEIVED

MAY 18 1962

WATER RESOURCES DEPT.
SALEM, OREGON



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Control by USGS and USC&GS

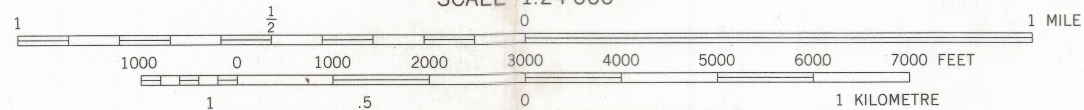
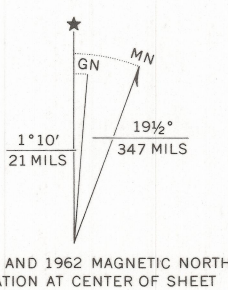
Topography by photogrammetric methods from aerial
photographs taken 1957 and 1959. Field checked 1962

Polyconic projection. 1927 North American datum
10,000-foot grid based on Oregon coordinate system, south zone
1000-metre Universal Transverse Mercator grid ticks,
zone 10, shown in blue

Fine red dashed lines indicate selected fence lines

Map photoinspected 1971

No major culture or drainage changes observed



CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETTIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

Heavy-duty Light-duty
Medium-duty Unimproved dirt
U.S. Route

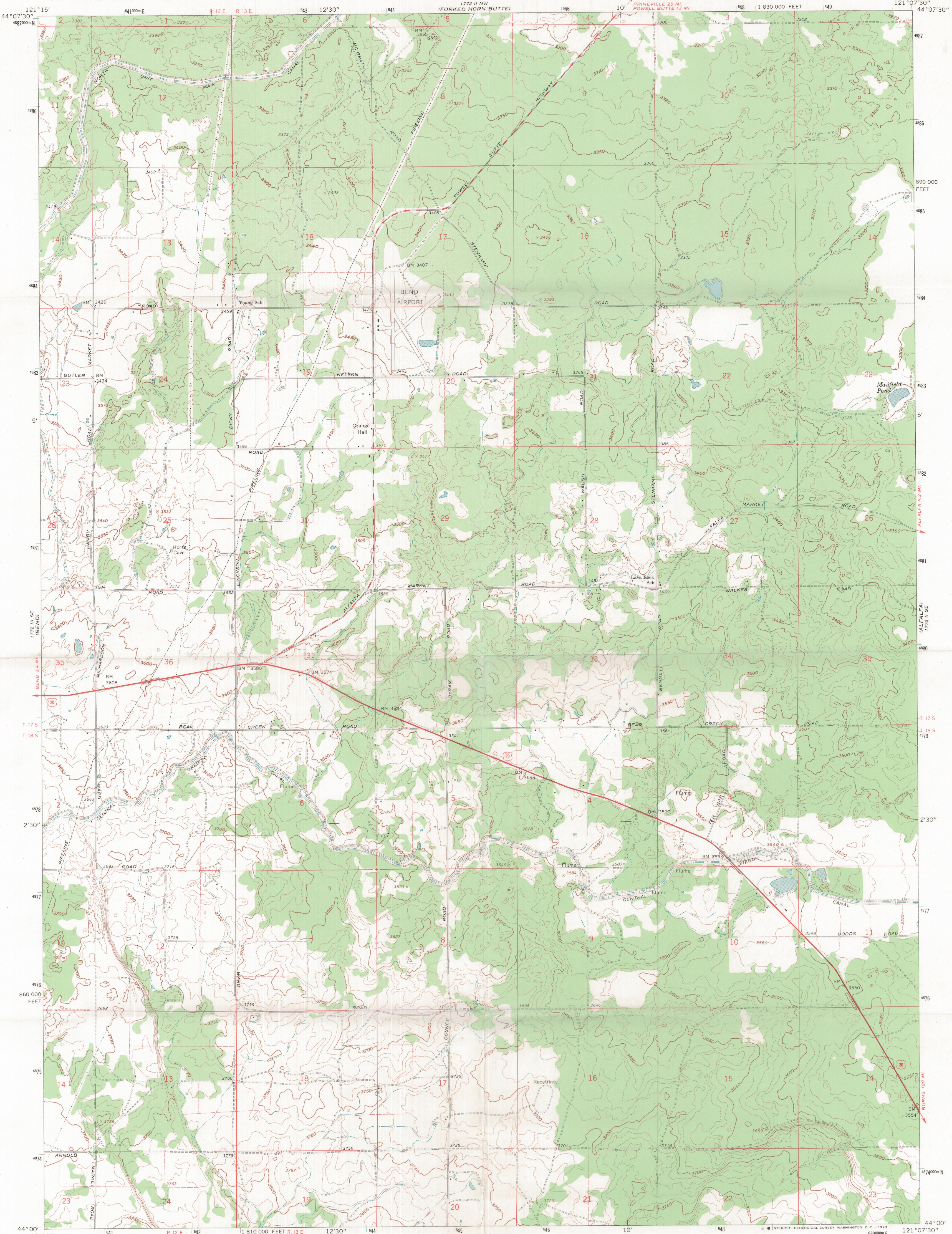


TUMALO, OREG.
N4407.5—W12115.7.5

1962

AMS 1772 III NE-SERIES V892
PHOTOINSPECTED 1975

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

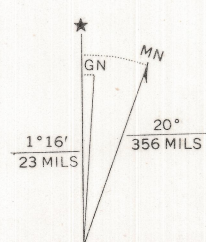
Topography by photogrammetric methods from aerial photographs taken 1957. Field checked 1962

Polyconic projection. 1927 North American datum

10,000-foot grid based on Oregon coordinate system, south zone

1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

Fine red dashed lines indicate selected fence lines



UTM GRID AND 1962 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL



ROAD CLASSIFICATION

Heavy-duty ——— Light-duty ———

Medium-duty ——— Unimproved dirt ———

U.S. Route

BEND AIRPORT, OREG.
N4400—W12107.5/7.5

1962

AMS 1772 II SW—SERIES V892

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

6-12924

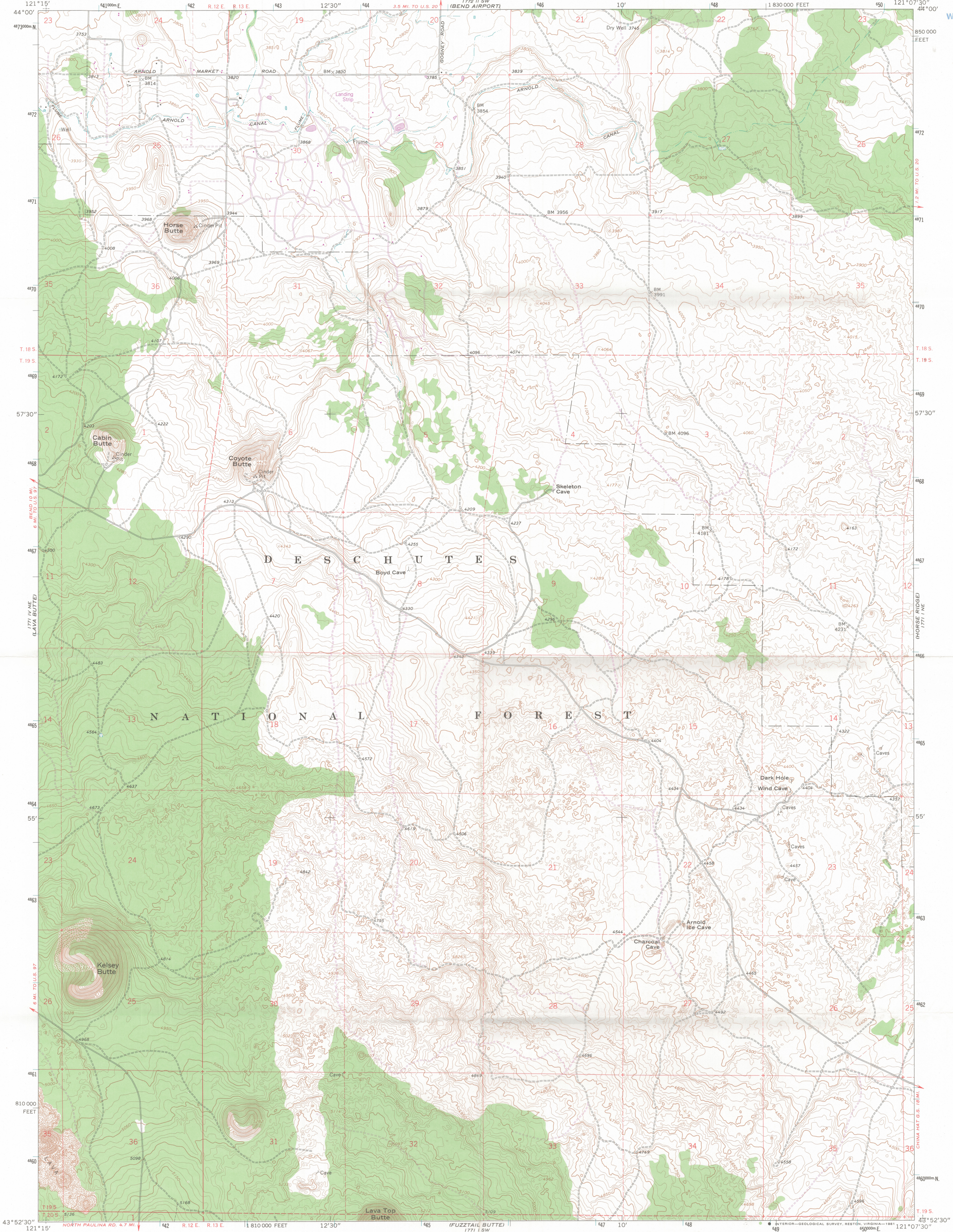
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

KELSEY BUTTE QUADRANGLE
OREGON—DESCHUTES CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

RECEIVED

MAY 18 1962

WATER RESOURCES DEPT.
SALEM, OREGON



Mapped, edited, and published by the Geological Survey
Control by USGS, NOS/NOAA

Topography by photogrammetric methods from aerial
photographs taken 1963. Field checked 1967

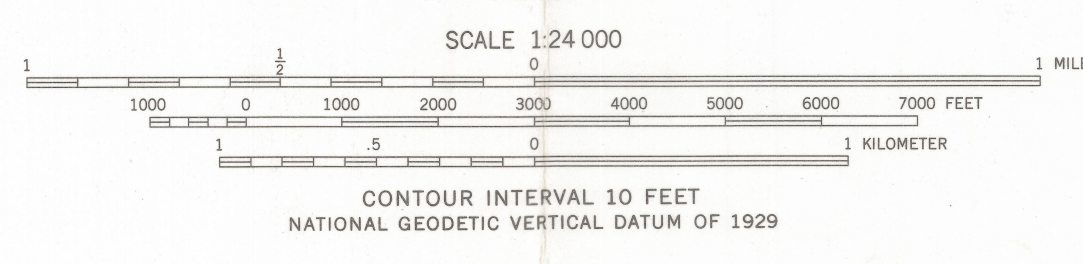
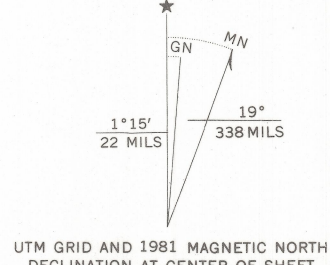
Polyconic projection. 1927 North American datum
10,000-foot grid based on Oregon coordinate system,
south zone

1000-meter Universal Transverse Mercator grid ticks,
zone 10, shown in blue

To place on the predicted North American Datum 1983,
move the projection lines 20 meters north and
92 meters east as shown by dashed corner ticks

Fine red dashed lines indicate selected fence lines

There may be private inholdings within the boundaries of
the National or State reservations shown on this map



ROAD CLASSIFICATION
Light-duty Unimproved dirt

KELSEY BUTTE, OREG.
N4352.5—W12107.5/7.5

1967
PHOTOREVISED 1981
DMA 1771 I NW—SERIES V892

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple compiled from aerial photographs
taken 1979 and other source data. This information not
field checked. Map edited 1981

6-12224

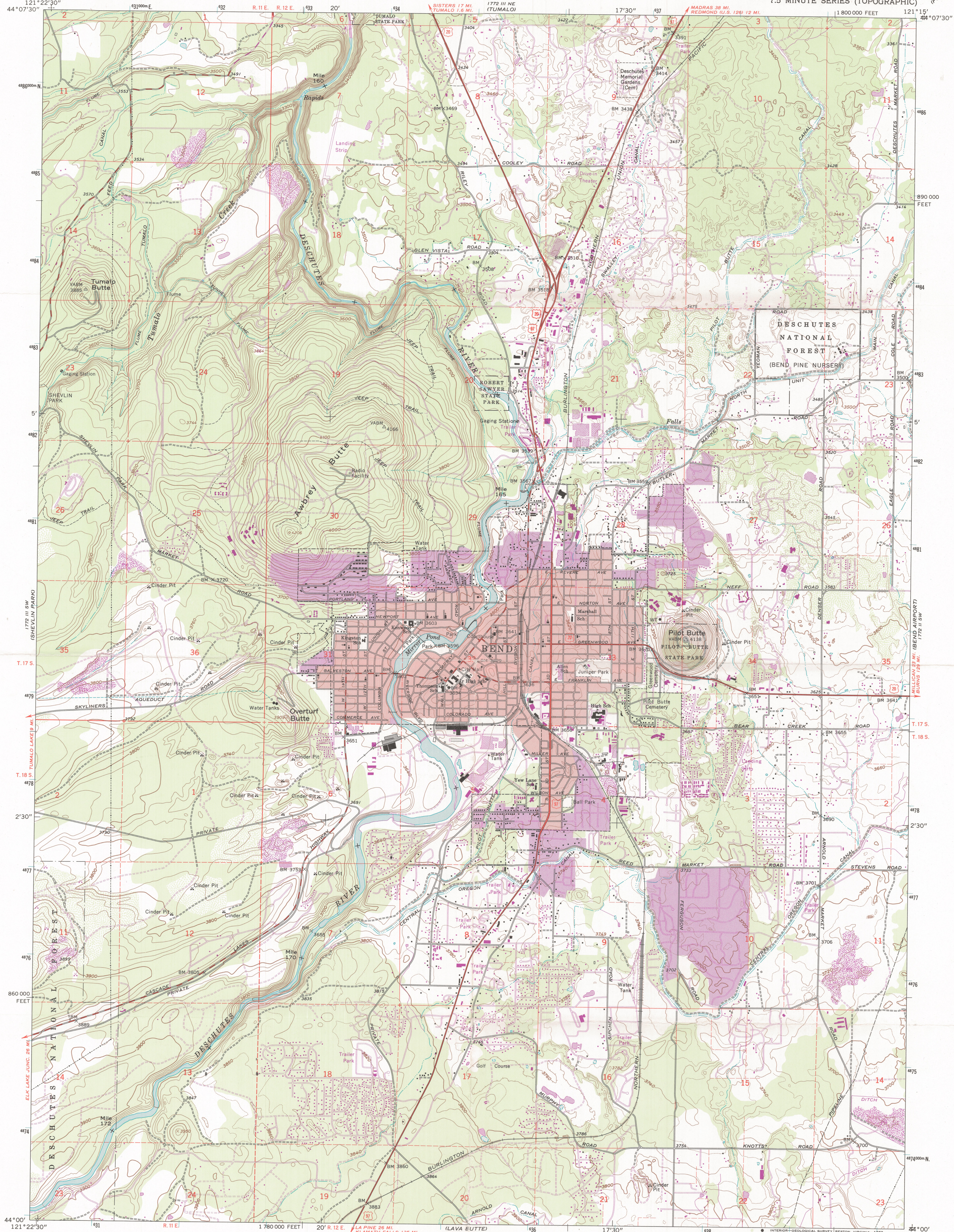
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BEND QUADRANGLE
OREGON-DESCHUTES CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

RECEIVED

MAY 18 1992

WATER RESOURCES DEPT.
SALEM, OREGON



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Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1957 and 1959. Field checked 1962

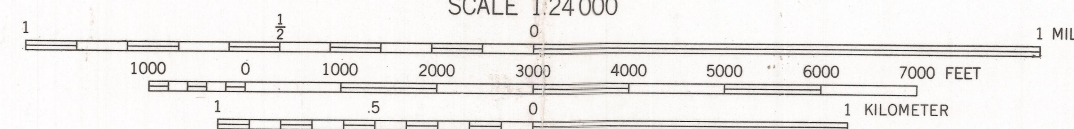
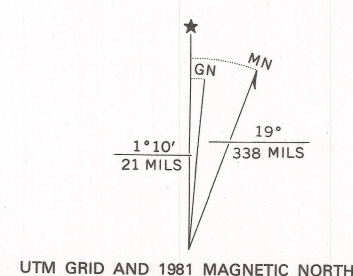
Polconic projection. 1927 North American datum 10,000-foot grid based on Oregon coordinate system, south zone 1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

To place on the predicted North American Datum 1983, move the projection lines 21 meters north and 92 meters east as shown by dashed corner ticks

Red tint indicates areas in which only landmark buildings are shown

Fine red dashed lines indicate selected fence lines

There may be private inholdings within the boundaries of the National or State reservations shown on this map



CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty Light-duty
Medium-duty Unimproved dirt
U.S. Route

BEND, OREG.
44121-A3-TF-024

1962
PHOTOREVISED 1981
DMA 1772 III SE-SERIES V892

Revisions shown in purple compiled from aerial photographs taken 1979 and other source data. This information not field checked. Map edited 1981
Purple tint indicates extension of urban areas

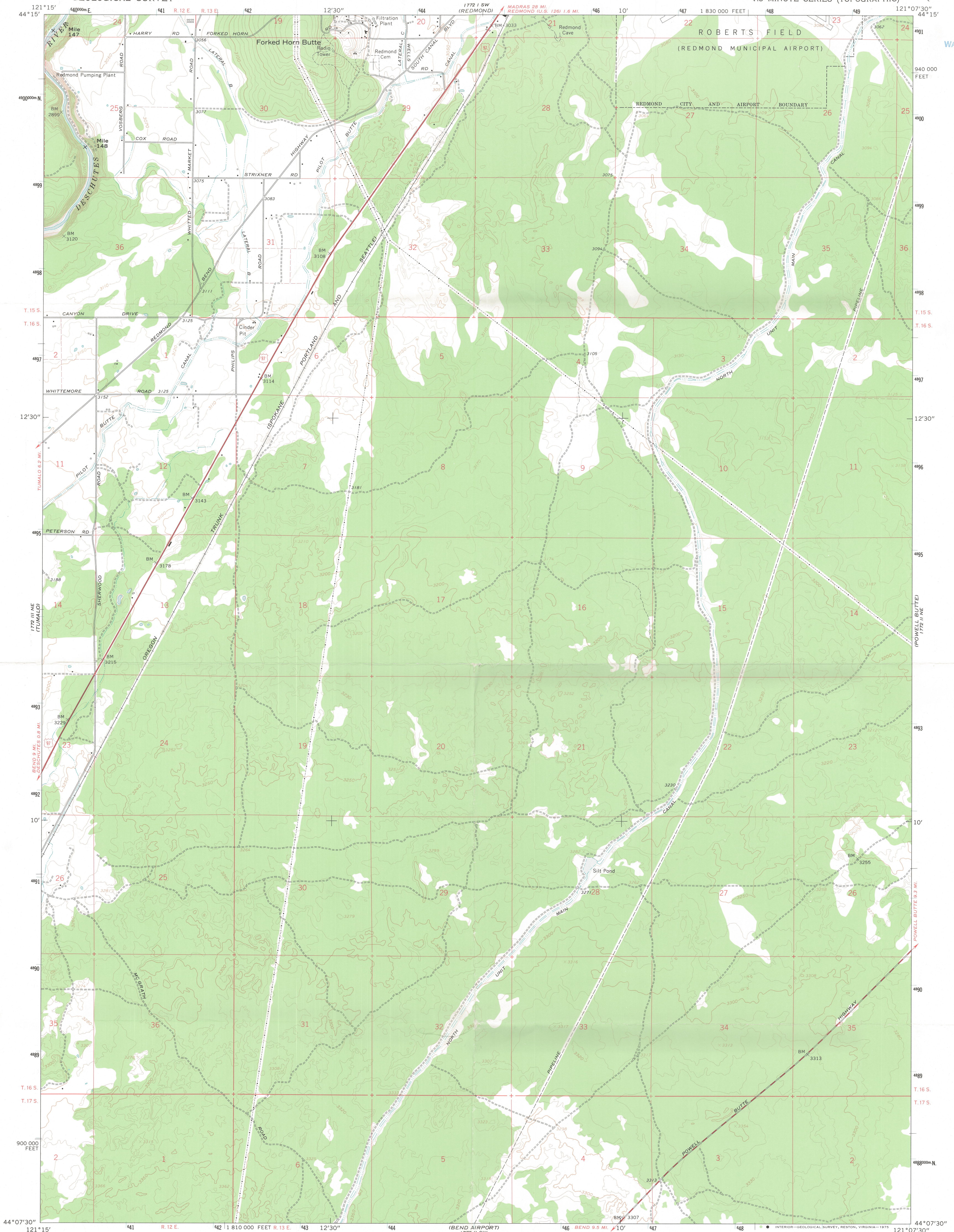
CLINE FALLS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

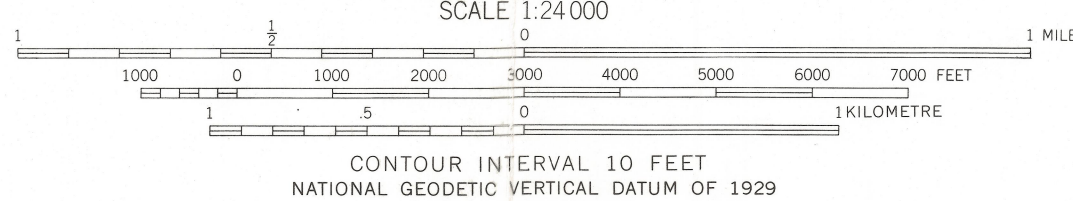
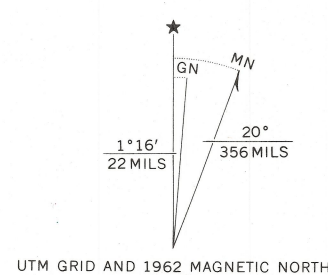
FORKED HORN BUTTE QUADRANGLE
OREGON-DESCHUTES CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

RECEIVED

MAY 18 1992
WATER RESOURCES DEPT
SALEM, OREGON



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial
photographs taken 1957. Field checked 1962
Polyconic projection. 1927 North American datum
10,000-foot grid based on Oregon coordinate system, south zone
1000-metre Universal Transverse Mercator grid ticks,
zone 10, shown in blue
Fine red dashed lines indicate selected fence lines



ROAD CLASSIFICATION
Heavy-duty ——— Light-duty ———
Medium-duty ——— Unimproved dirt ———
U.S. Route

FORKED HORN BUTTE, OREG.
N4407.5—W12107.5/7.5

G-12 924

1962
AMS 1772 II NW—SERIES V892

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST