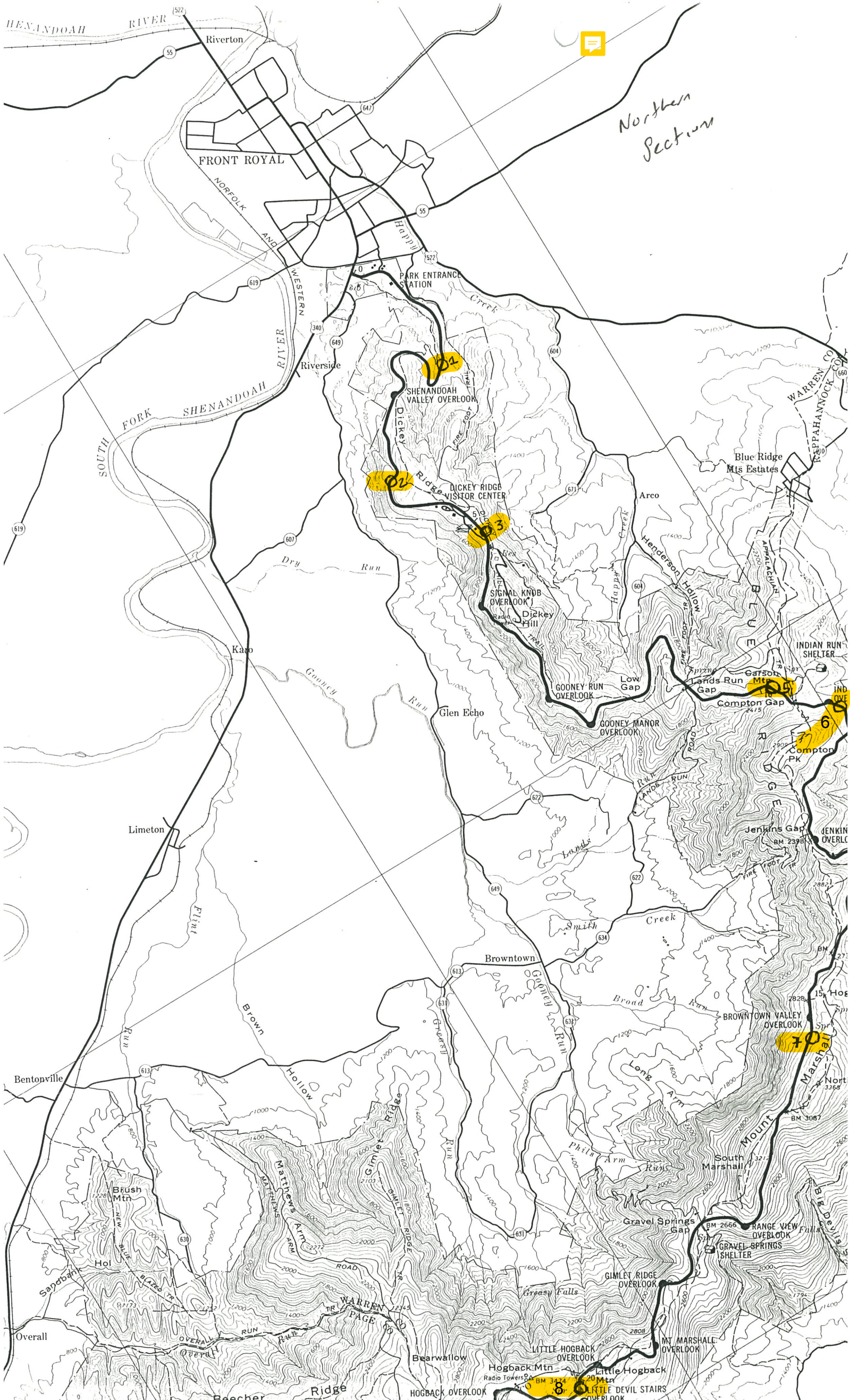




Northern
Section

FRONT ROYAL

NORFOLK AND WESTERN RIVER

SHENANDOAH VALLEY OVERLOOK

DICKEY RIDGE VISITOR CENTER

SIGNAL KNOB OVERLOOK

GOONEY RUN OVERLOOK

GOONEY MANOR OVERLOOK

COMPTON GAP

BROWNTOWN VALLEY OVERLOOK

GRAVEL SPRINGS OVERLOOK

LITTLE HOGBACK OVERLOOK

LITTLE DEVIL STAIRS OVERLOOK

HOGBACK OVERLOOK

INDIAN RUN SHELTER

Blue Ridge Mts Estates

INDIAN OVERLOOK

JENKINS OVERLOOK

GRAVEL SPRINGS SHELTER

RANGE VIEW OVERLOOK

MT MARSHALL OVERLOOK

Radio Towers

Bearwallow Ridge

Beecher Ridge

Overall

Limeton

Brown Hollow

Browntown

Creek

Long Arm

South Marshall

Gravel Springs Gap

GIMLET RIDGE OVERLOOK

GOONEY MANOR OVERLOOK

GOONEY RUN OVERLOOK

DICKEY HILL

SIGNAL KNOB OVERLOOK

DICKEY RIDGE VISITOR CENTER

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

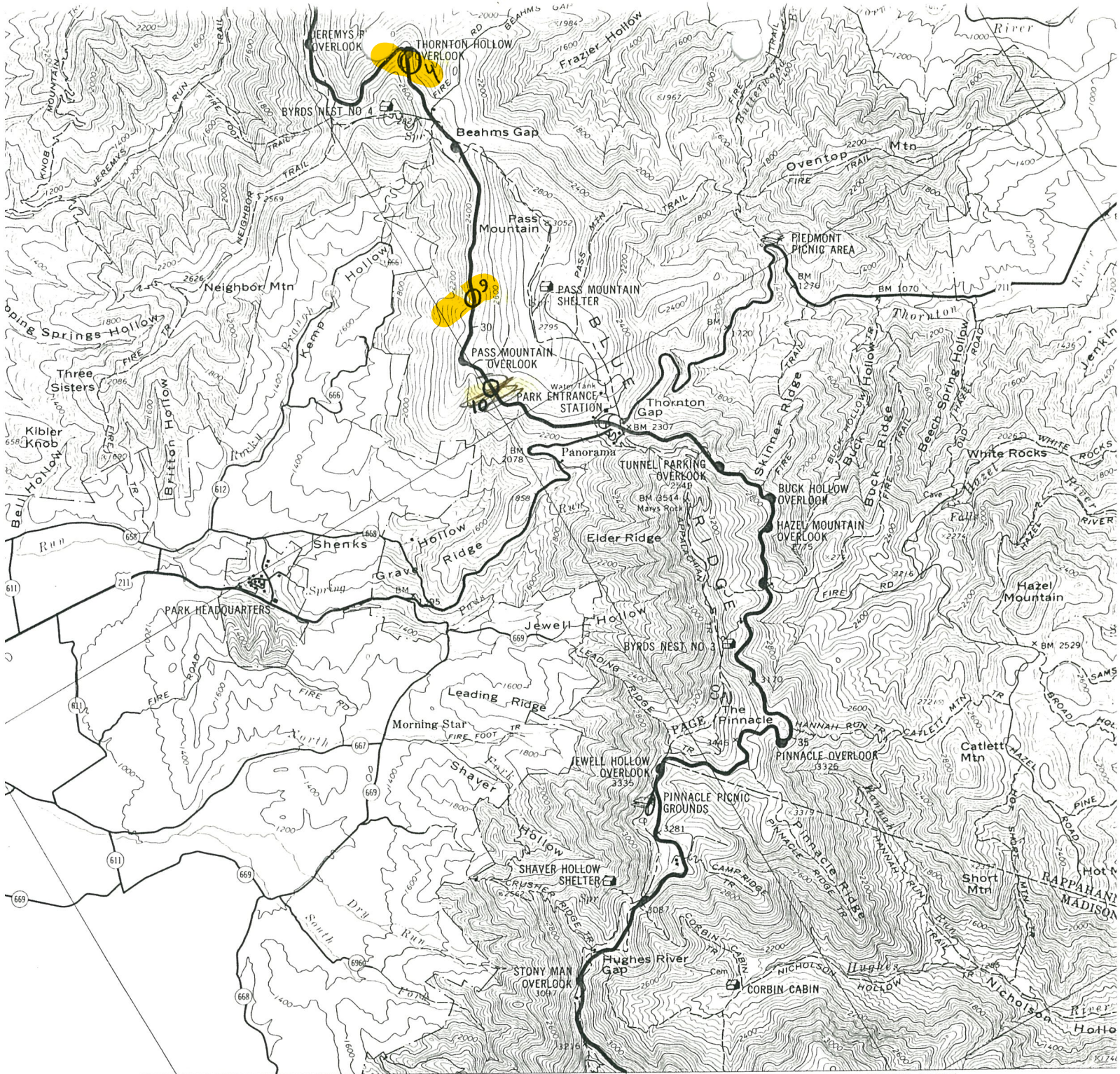
SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

SHENANDOAH VALLEY OVERLOOK

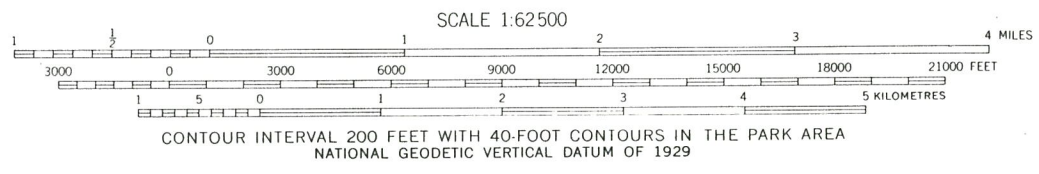
SHENANDOAH VALLEY OVERLOOK



78° 25'

SKYLAND 2 MI.
BIG MEADOWS CAMPGROUND 12 MI.

78° 20' 38° 35'



Mapped, edited, and published by the Geological Survey
in cooperation with the National Park Service
Control by USGS, USC&GS, and USCE
Compiled in 1969 from 1:24,000-scale maps dated 1964-1967
Minor revisions 1969
Supersedes 1:62,500-scale maps dated 1927-1930
Polyconic projection. 1927 North American datum

ROAD CLASSIFICATION

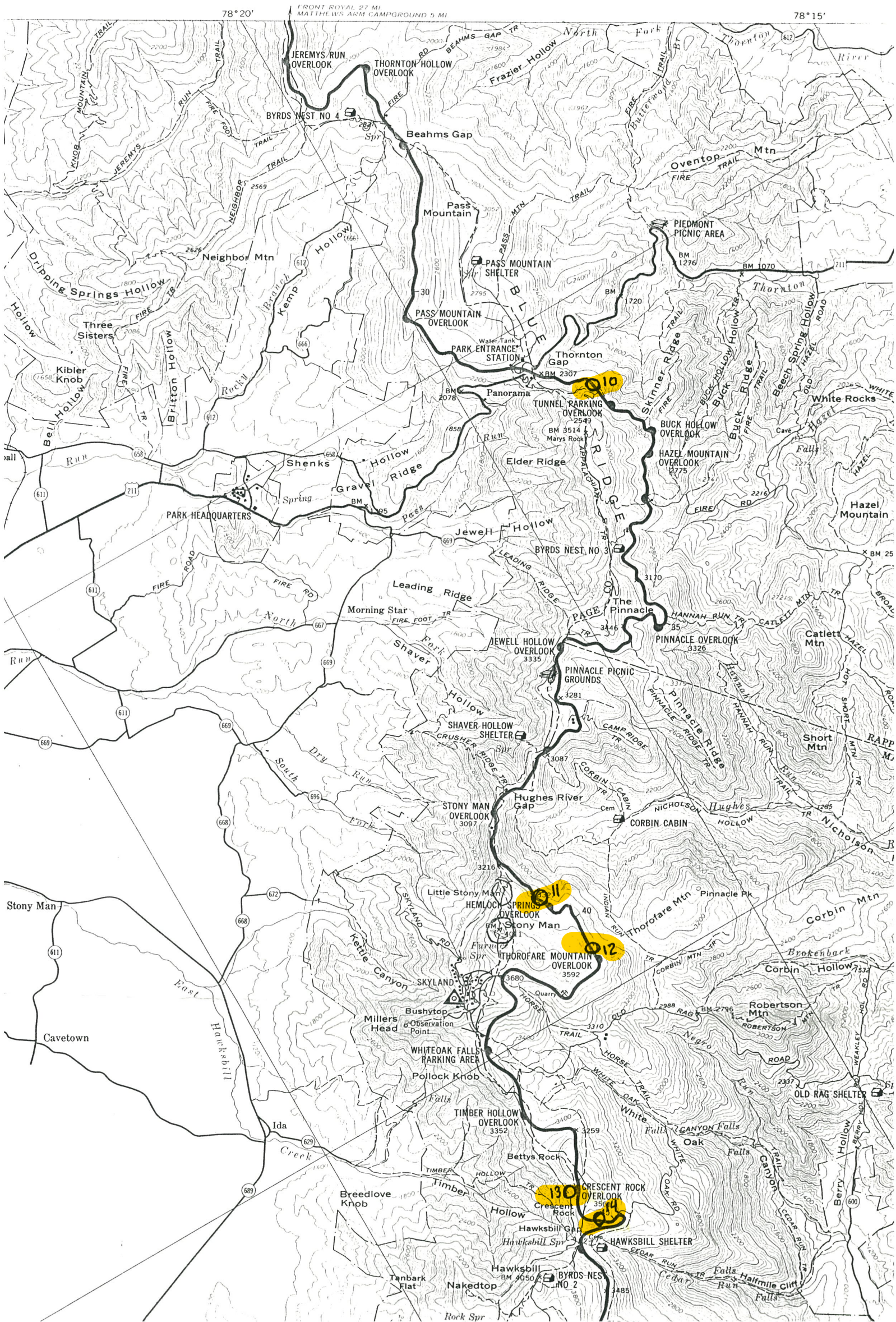
- Skyline Drive
- Heavy-duty
- Medium or light-duty
- Appalachian Trail
- Unimproved dirt
- Track or trail
- U.S. Route
- State Route

North
Section

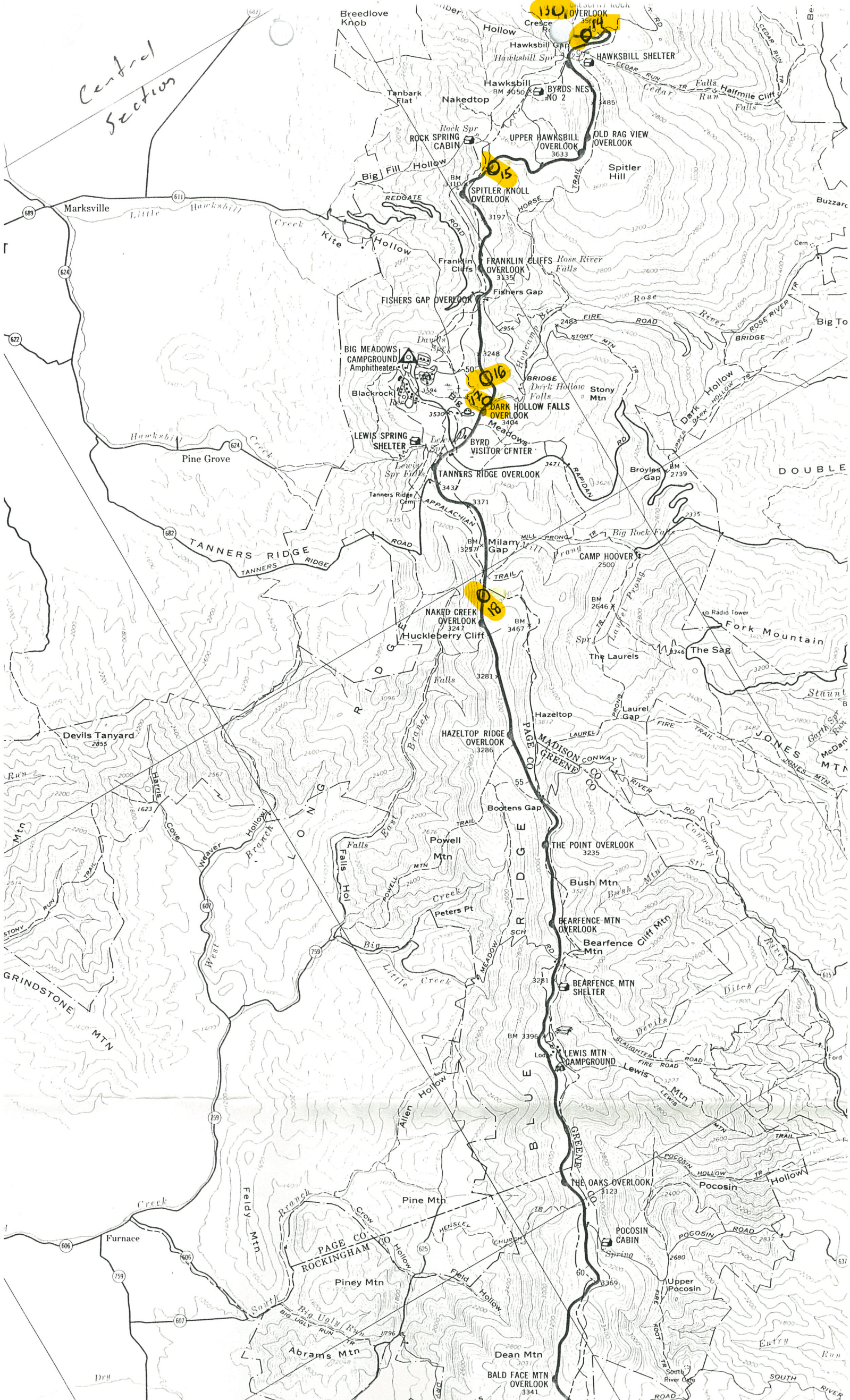
Central section

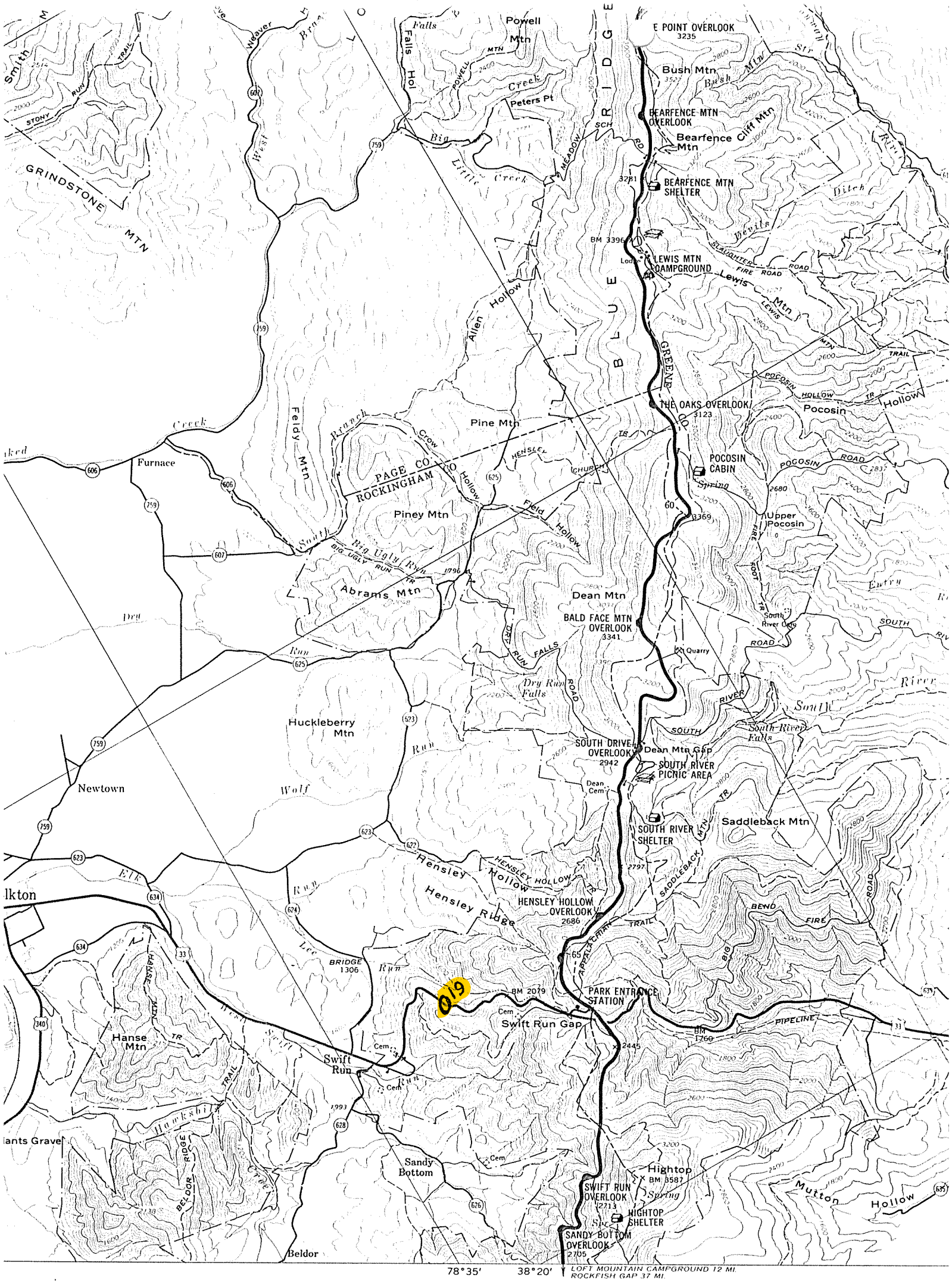
SHENANDOAH NATIONAL PARK

VIRGINIA



Central
Section





SCALE 1:62500

CONTOUR INTERVAL 200 FEET WITH 40-FOOT CONTOURS IN THE PARK AREA
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

Skyline Drive	-----	Appalachian Trail	-----
Heavy-duty	-----	Unimproved dirt	-----

Control Section

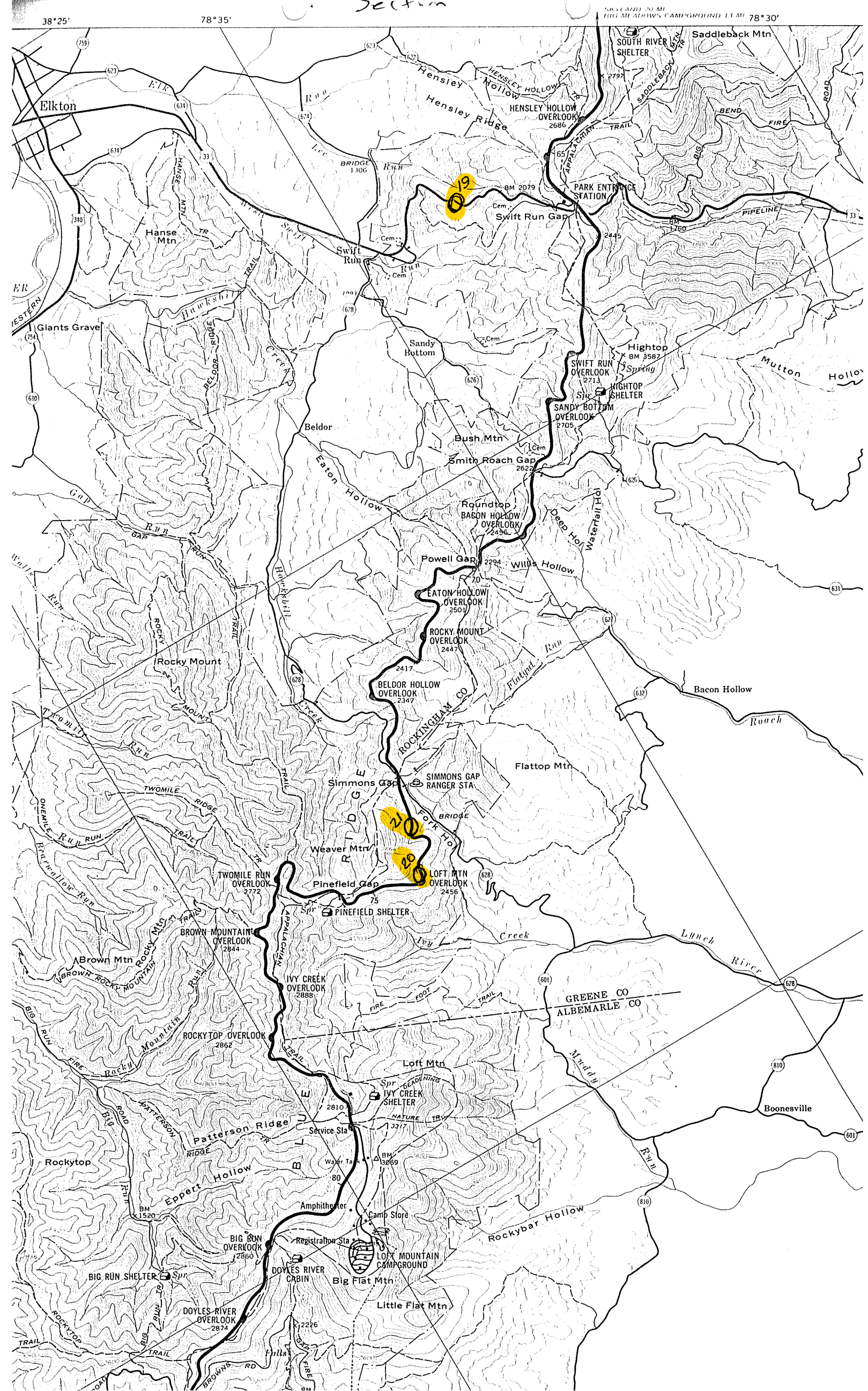
Mapped, edited, and published by the Geological Survey in cooperation with the National Park Service

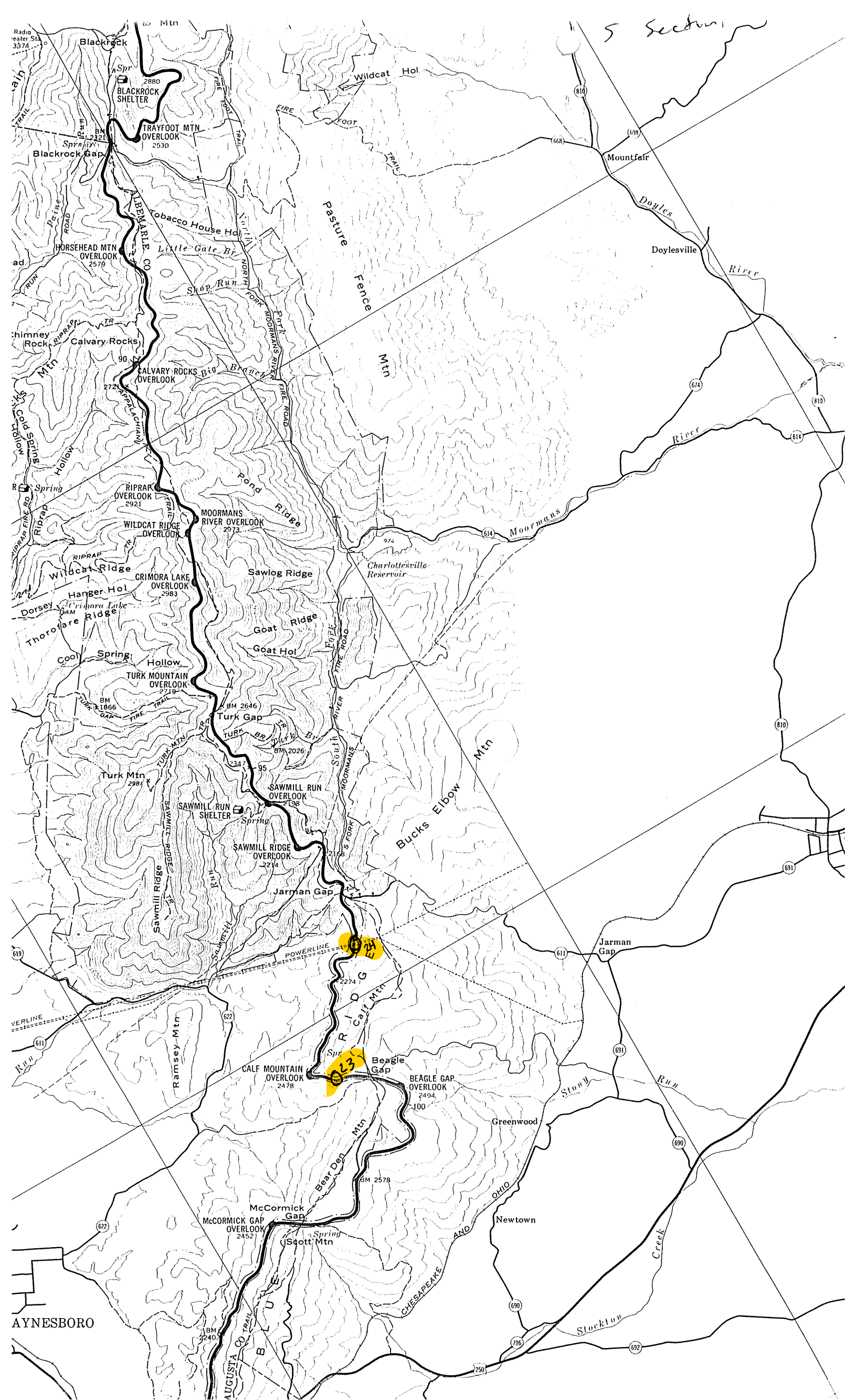
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Polyconic projection. 1927 North American datum

C. Section







The University of Michigan

DEPARTMENT OF GEOLOGICAL SCIENCES

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ANN ARBOR, MICHIGAN 48109-1063

(313) 764-1435

Rick Potts
Chief of Natural Resources
Shenandoah National Park
Luray, VA. 22835

Mr. Potts,

I have enclosed copies of the proposals which were funded by the Geological Society of America and the University of Michigan. Copies of award letters and a letter of recommendation from my faculty advisor are also attached.

I would also like to clarify about the exact nature of drilling that would take place. It is done with a hand-held diamond-bit drill (really a modified chainsaw). Samples are typically 2-2.5 cm. in diameter and 3-5 cm long. The key to this research is having properly oriented samples. When we sample an outcrop we use a sun-compass or magnetic-compass to orient the core before removing it from the outcrop. This is then used to calculate the correct relative latitude of North America for the time period in question. If we do drill, each hole is filled with mortar and painted to duplicate the natural outcrop. Every attempt will be made to keep the study low-impact. I enjoy the beauty of the national parks and would do nothing to harm them.

I am still trying to coordinate the exact dates I will be there to sample. It appears as if mid-late August will be the best (i.e. after August 15). I will send the forms back to you overnight mail when I receive them. thank you for your cooperation.

Sincerely,

Joe Meert
Dept. Geological Sciences
1006 CC Little Bldg.
University of Michigan
Ann Arbor, MI. 48109

Rick,

I have enclosed copies of the topo sheets with sampling locations marked. I apologize for the delay in sending these, however I had to go out of town shortly after my return.

I believe we had great success sampling and I am anxious to begin lab work on the collection. We sure do appreciate your assistance, it made everything go smoothly. I'll be in touch as soon as the results become available

Thanks again

Jeff M