Melvin A. Coonrod
Co-Op Mining Company
P.O. Box 1245
Huntington, Utah 84528

August 27, 1983

Mr. Mark Page
State Engineer
Division of Water Rights
74 W. Main St.
Price, Utah 84501

REF: 93-R Permit Application
Bear Creek, Co-Op Mine

Dear Mark:

Attached is our 93-R permit application along with some additional data which I felt may be of value in determining the degree of impact of our proposed activity.

The Co-Op Mine has committed to U.D.O.G.&Mining to remove the culvert upon abandonment of the mine and to reclaim the stream channel in such a manner as to enhance the area. Presently, there is little or no riparian zone along this portion of the creek due to the eroded nature of the channel and the angle of the oppossing banks. Co-Op mine has committed to remove the culvert, decrease the angle of the side slopes and attempt to create a riparian zone along the creek. Also, establish a more stable vegetative cover on the banks.

Please contact me in the event that you have any questions or concerns relative to this activity. As usual, I appreciate your assistance in addressing this situation.

Sincerely,

Melvin A. Coonrod
Permitting & Compliance Director

MC/nc

cc: Army Corp Engineer - Robert Kramer
D.O.G.M. - James Smith

Form No. 93-R Application No. _____

APPLICATION TO ALTER NATURAL STREAM

Note: Information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made under the heading "Explanatory".

For the purpose of acquiring permission to alter a natural stream channel, application is hereby made to the State Engineer, based on the following facts, submitted in accordance with the requirements of the laws of the State of Utah, Section 73-3-29, Utah Code Annotated 1953, as amended.

1. Relocate [ ] Revetment Work [X] Change [ ] Divert Stream Flow [ ]

2. Name of applicant Co-Op Mining Company

3. Address of applicant P.O. Box 1245
Huntington, Utah 84528

4. The stream to be altered or relocated is Bear Creek

5. The channel to be altered is in the drainage area of Bear Creek Canyon, Huntington Canyon

6. The location of the channel to be altered is in Emery County. Located in SE¼, SW¼, Sec 25 Township 16 S Range 7E SBM

(Give location within 40-acre tract of section, township, and range.)

7. The nature of the proposed channel change is To install 200'linear feet of 60" culvert.

8. The alteration or relocation is made for the purpose of To protect the drainage from possible contamination by coal fines in the area of the Scale House.

9. The existing condition of the channel is Eroded to a near stable configuration.

10. The estimated streamflow is less than 1.5 second-feet.

11. The description of the proposed work involved is To install 200' of 60" culvert in the existing stream channel. (See attachment on location) to protect the drainage and facilitate surface drainage and handling of coal.

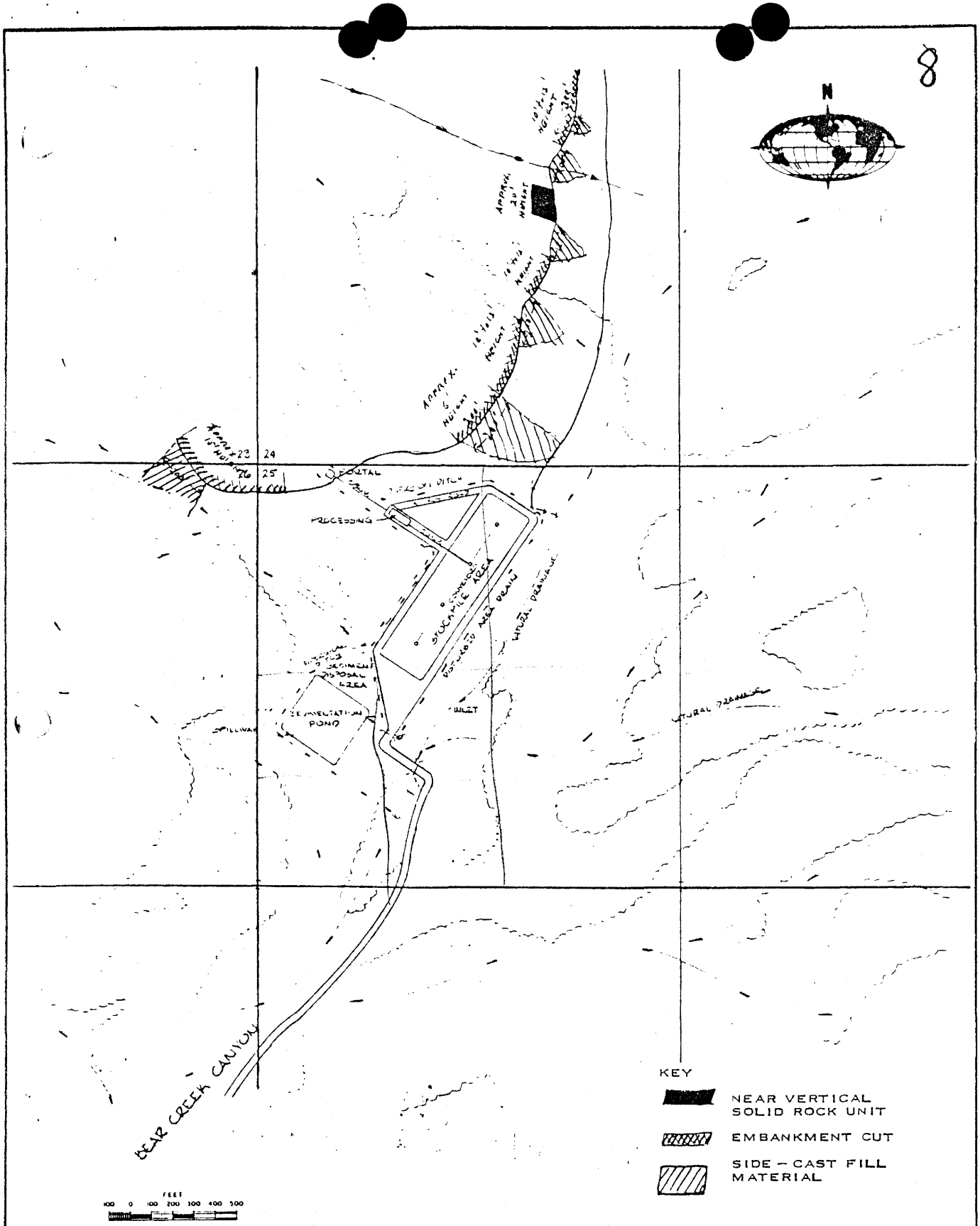
12. Is the land owned by the applicant? Yes [X] No [ ] If the answer is "No", has written permission to proceed with the work been obtained?

Note: The approval of this application does not grant the applicant the right of egress or trespass. Such authorization must be accomplished in accordance with the standard legal procedures.

13. Channel Improvement Grouping (for federal agencies only) _____

Explanatory

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application: The culvert is designed to allow the Co-Op Mining Co. to handle the weighing of coal trucks in such a manner and location to prevent surface waters which may contain coal fines to go through a sediment pond prior to reaching the creek. It will facilitate storage of materials, handling of coal, and future construction in the area. (See attachments for site specific information)

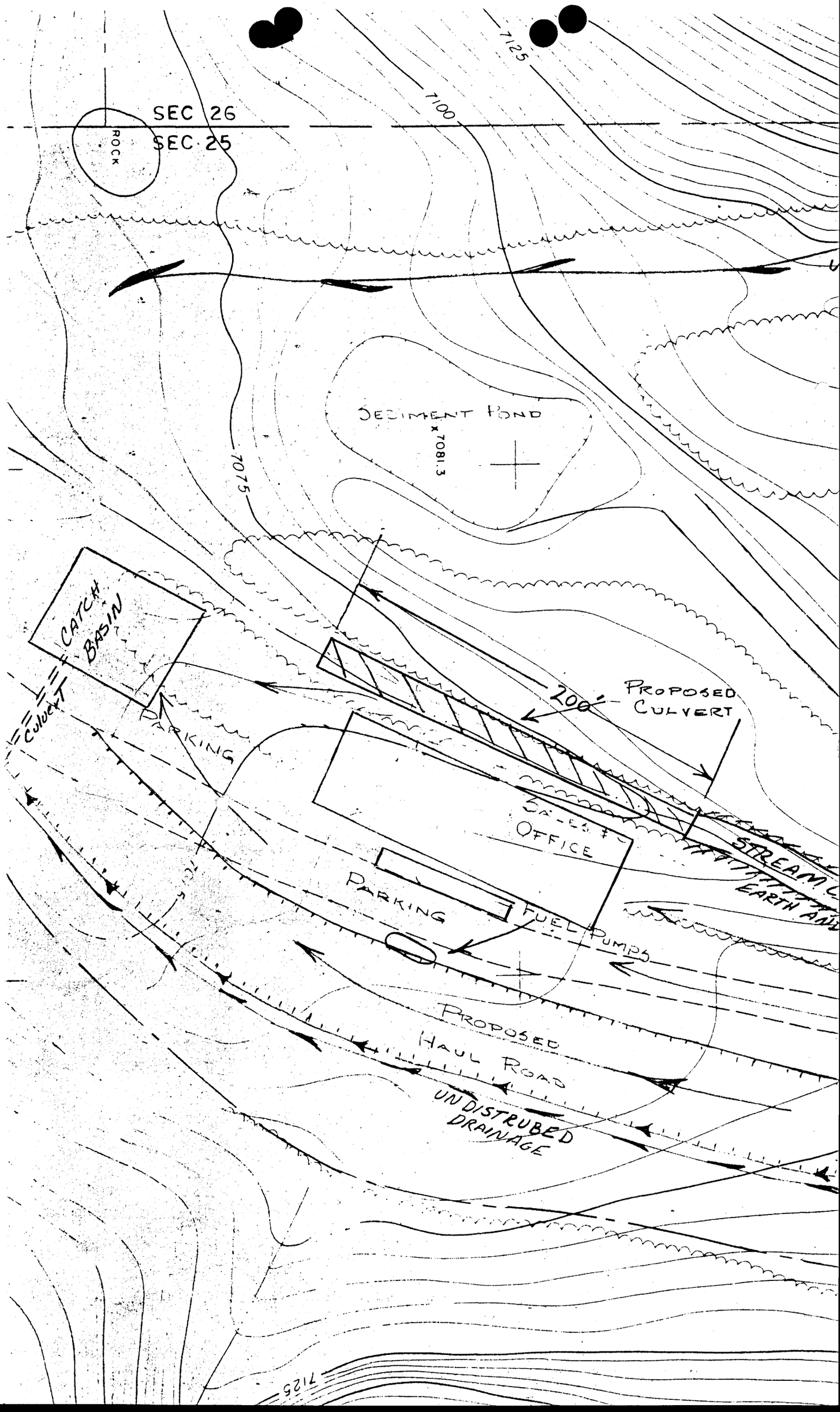


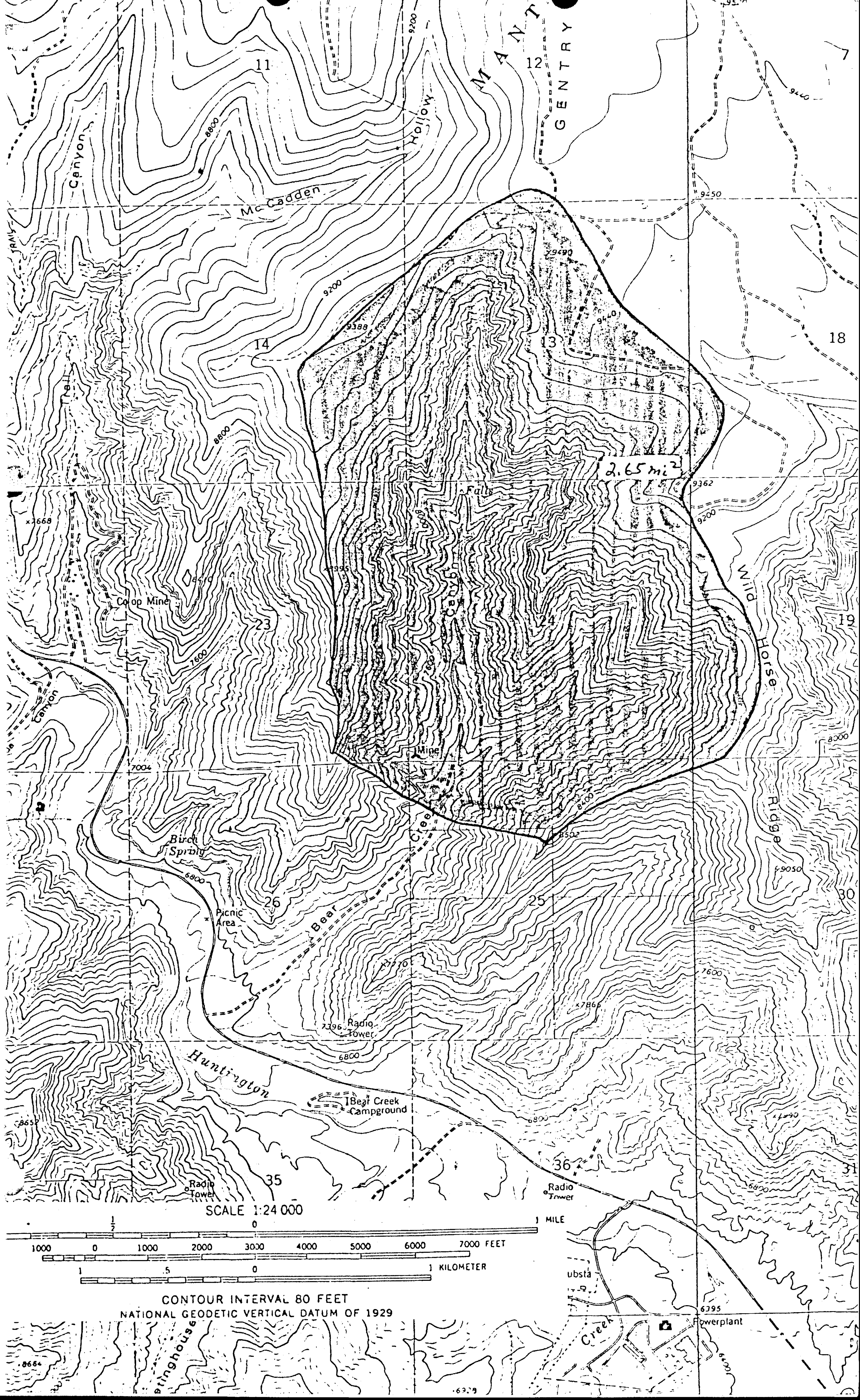
PLOT PLAN

REFERENCE
ADAPTED FROM PRINT
SUPPLIED BY OTHERS.

DAMES & MOORE

PLATE


SEC 26
SEC 25
ROCK
7125
7100
7075
SEDIMENT POND
x 7081.3
CATCH BASIN
CULVERT
PARKING
200'
PROPOSED CULVERT
OFFICE
PARKING
FUEL PUMPS
STREAM
EARTH
PROPOSED HAUL ROAD
UNDISTRUBED DRAINAGE
7125



MANTI
GENTRY
McCadden
Hollow
Canyon
Tell
Canyon
Co-op Mine
Birch Spring
Picnic Area
Bear Creek
Falls
Mine
Wild Horse Ridge
2.65 mi²
Radio Tower
Huntington
Bear Creek Campground
Powerplant
Creek
11
12
7
14
13
18
23
24
19
26
25
30
35
36
31
9466
9200
8800
9450
9490
9388
9440
9362
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9050
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7866
7396
7270
6395
8665
8664
SCALE 1:24 000
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER
CONTOUR INTERVAL 80 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

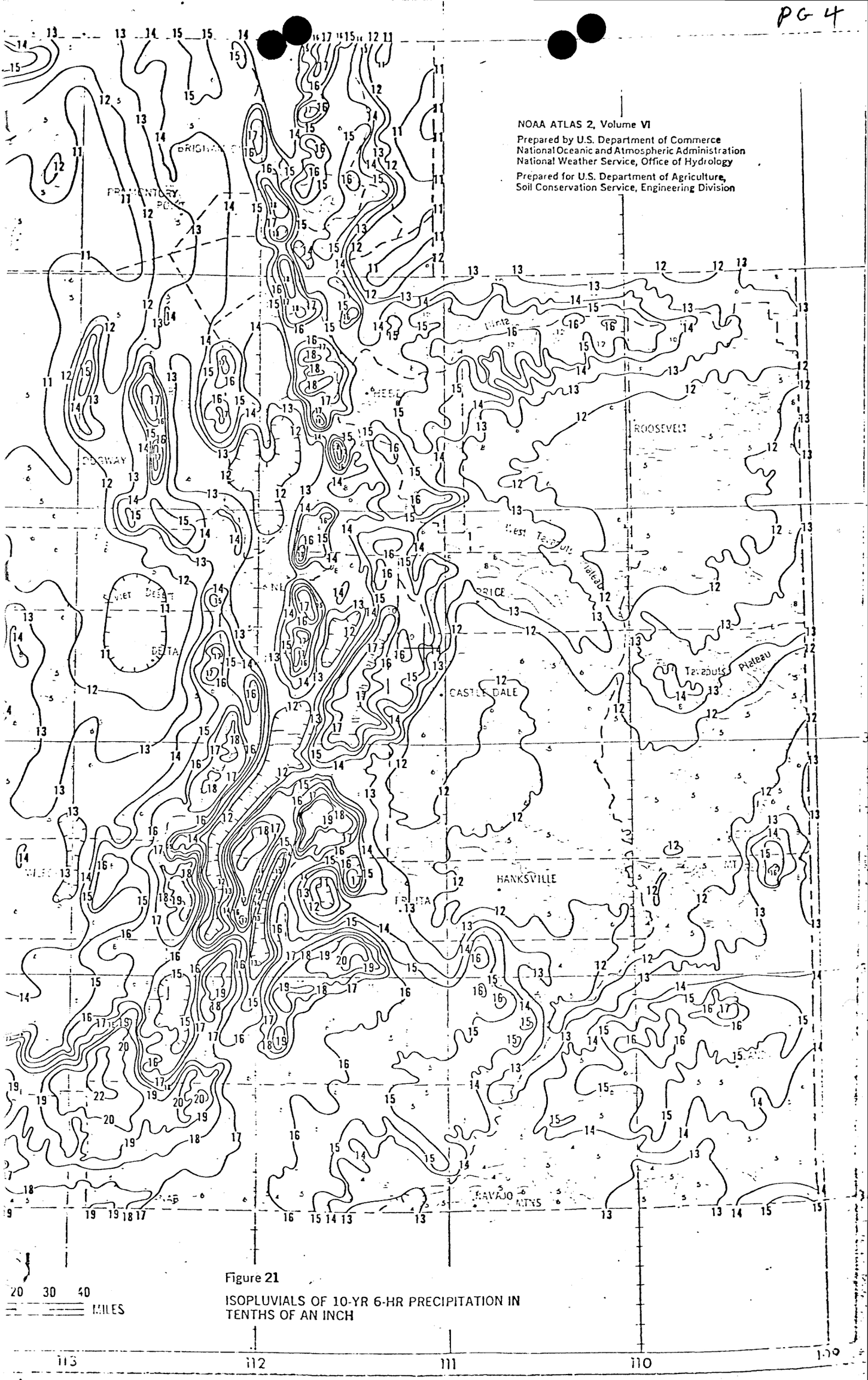


Figure 21

ISOPLUVIALS OF 10-YR 6-HR PRECIPITATION IN TENTHS OF AN INCH

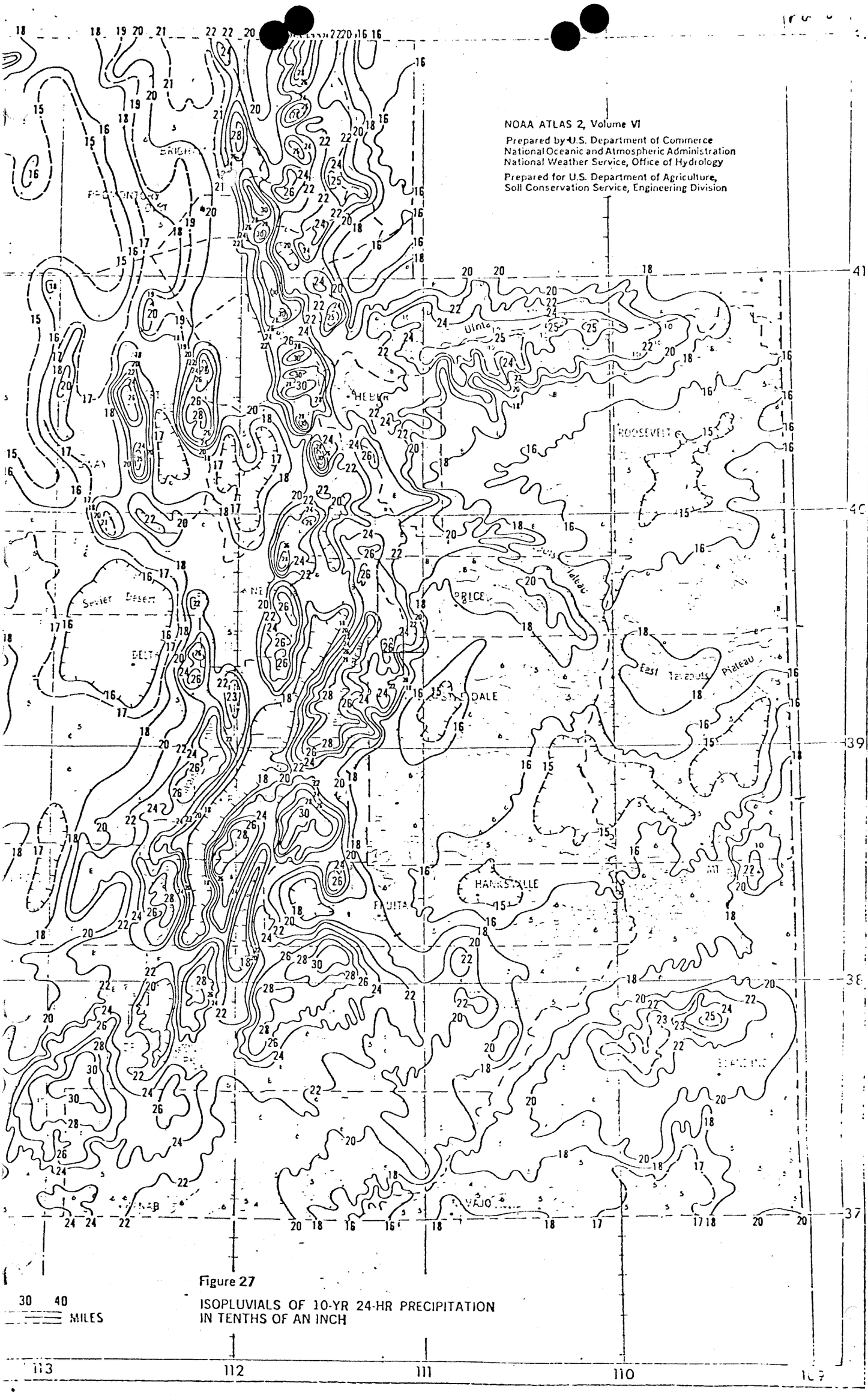
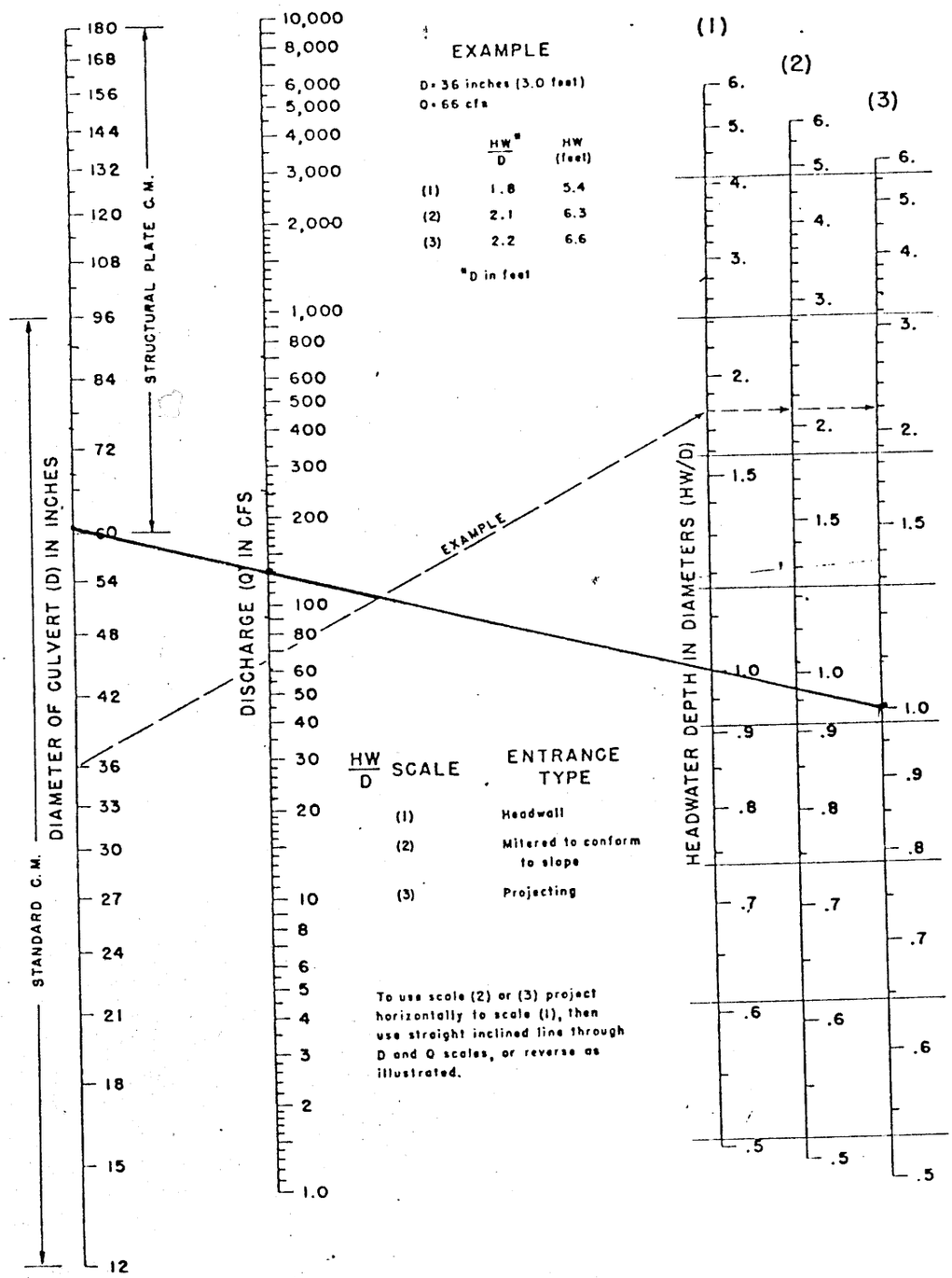


Figure 27

ISOPLUVIALS OF 10-YR 24-HR PRECIPITATION
IN TENTHS OF AN INCH

If multiple culverts, Divide Q(cfs) equally between them & use Q for 1 pipe to determine culvert diameter.

Chart 2-53: HEADWATER DEPTH FOR C.M.P. CULVERTS WITH INLET CONTROL



BUREAU OF PUBLIC ROADS JAN. 1963

Culvert adequacy - Stream Crossing

Design Peak Flow = 130 cfs

Design for headwater no higher than culvert

HW/D = 1

Assume - Culvert is not mitered to slope of embankment

Culvert diameter required = 60 inches