

✓ 9-18-06
 RECORD COPY
 File Name: Bankston - Sewage
 Signature Initials: JmE

≈ 12 (see Ch 69 IAC)

Data Entered	Date	Initials
	1. _____	2. _____

Date Rec'd	Facility Name	Co. #	Program Area	Facility Type	Subject Area
12/1/89	City of Bankston	31	CP	C05	360 (new)
Rule Ref.	Design Std. Ref.	Decision	Date	Appeal Action	Date
69.9(2)b	None	Denied	12/7/89		
13. Engineer			14. Variance Rule		
ITW Engineers & Surveyors			69.16 (455B)		

15. Description of Variance Requested:

The designing engineer is proposing an intermittent sand filter for secondary treatment of septic tank effluent for the wastewater from the City of Bankston. In order to reduce costs for the project, the engineer has requested use of SDR 35 PVC pipe for the filter distribution lines and collector lines in lieu of schedule 40 PVC pipe as required by Chapter 69 of our departmental rules.

16. Engineer's Justification:

1. ASTM D3034 ^{PVC} SDR 35 pipe will perform adequately for the required purpose and is one-half the cost of Schedule 40 PVC.
2. ASTM D3034 PVC SDR 35 pipe is acceptable for gravity sanitary sewers.

17. department's Justification

The proposed ASTM D3034 PVC 35 pipe would not be equivalent to schedule 40 PVC pipe as required by our departmental rules. In this regard schedule 40 pipe would require an equivalent SDR of 19 for 4-inch pipe and SDR of 23.7 for 6-inch pipe. Therefore, it is recommended that the variance request be denied.

18. Precedents Used: None

19. Staff Reviewer:

Fred M. Evans

12/7/89



TERRY E. BRANSTAD, GOVERNOR

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DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

December 15, 1989

IIW Engineers and Surveyors, P.C.
3210 St. Joseph Drive
Dubuque, Iowa 52001

ATTENTION: Charles A. Cate. P.E.

SUBJECT: Variance Request
Intermittent Sand Filter Pipelines
City of Bankston, Iowa

*(see variance request
for Chiller's)*

Gentlemen:

The Iowa Department of Natural Resources in accordance with Subrule 567--69.16(455B) of the Iowa Administrative Code has denied your request for a variance from Subrule 567--69.9 (2)b(455B) of the Iowa Administrative Code. The latter subrule requires that the distribution lines and collector lines for intermittent sand filters shall be equivalent to Schedule 40 PVC pipe or other suitable materials.

The engineering justification submitted does not substantially demonstrate that the requested variance would provide for equivalent effectiveness. In this regard we note that the ASTM D3034 PVC pipe proposed has an SDR of 35, whereas the required Schedule 40 PVC pipe would require an equivalent SDR of 19 for 4-inch pipe and an SDR of 23.7 for 6-inch pipe.

Sincerely,

DARRELL McALLISTER
BUREAU CHIEF
SURFACE AND GROUNDWATER PROTECTION BUREAU

(FE-347.MS)

cc: City of Bankston
Field Office 1