

✓ 9-14-06

## VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: June 18, 2004	13. Decision:
2. Review Engineer: Emy W. Liu	Date:
3. Date Received: June 17, 2004	
4. Facility Name: Wayland collection system	14. Appeal:
5. County Number: 44(Henry)	Date:
6. Program Area: CP(Wastewater Construction)	
7. Facility Type: C01(collection/transportation)	
8. Subject Area: 340(manhole spacing)	
9. Rule Reference: 567-64.2(9)a	
10. Design Stds Ref: 15.5.7.1 (manhole spacing)	
11. Consulting Engr: Garden & Associate, Ltd.	
12. Variance Rule: 567-64.2(9)c	

### 15. Description of Variance Request:

Request manhole spacing between W-3 and W-4 in the new 12" west trunk sewer to be 543 feet. The design standards 12.5.7.1 allow a maximum manhole interval not exceeding 500 feet when adequate cleaning equipment is available.

### 16. Consulting Engineer's Justifications

1. The manhole spacing eliminates an existing manhole that is about 30 feet deep and avoids installing an additional manhole at a spacing of 150 feet.
2. The cleaning equipment provided by Municipal Pipe and Tool has the necessary equipment capable of cleaning sanitary sewers with manhole spacing at 600 feet.

### 17. Department's Justifications

Department approval for this variance request is recommended for the following reasons:

1. The city has adequate cleaning equipment to clean the proposed sewer length.
2. Proposed new trunk sewer is in the same location as it was before. The existing 30 feet deep manhole has shown to be a factor for the I/I problems. Providing a longer interval between two manholes will avoid the 30-foot deep manhole.

### 18. Precedents Used

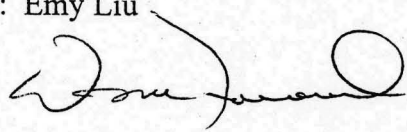
Grinnel (April 1993), Rose Hill (Nov 1991) and etc.

19. Staff Reviewer: Emy Liu

Date: June 18, 2004

20. Supervisor:

Date:

21. Authorized by: 

Date: 6/18/04

Jack Pope, P.E.  
PH. 641-672-2526  
Fax. 641-672-2091

**Garden & Associates**

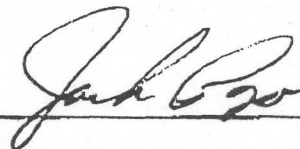
# Fax

<b>To:</b>	Emy Liu	<b>From:</b>	Jack Pope
<b>Fax:</b>	515-281-8895	<b>Pages:</b>	3
<b>Company:</b>	IDNR	<b>Date:</b>	6/17/2004
<b>Re:</b>	Wayland Sewer	<b>CC:</b>	

☐ **Urgent**    ☐ **For Review**    ☐ **Please Comment**    ☐ **Please Reply**    ☐ **Please Recycle**

• **Comments:**

Attached is variance request as well as letter from City of Wayland concerning sewer cleaning.





GARDEN & ASSOC.

P.O. BOX 451  
OSKALOOSA, IOWA 52577  
(AREA 641) 672-2526  
FAX: (AREA 641) 672-2091

June 17, 2004

Emy Liu, P.E.  
Wastewater Section  
Iowa Department of Natural Resources  
Wallace State Office Building  
502 East 9<sup>th</sup> Street  
Des Moines, IA 50319

Re: Request for Variance  
Trunk Line Sewer Replacement  
Wayland, Iowa

Dear Emy:

Per your e-mail today the City of Wayland is requesting the following variance from Design Standards in order to reduce the cost of constructing a wastewater collection system while maintaining equivalent effectiveness:

Design Standard 12.5.7.1 – request to allow maximum manhole spacing of up to 543 feet on west trunk line sewer. The manhole spacing eliminates an existing manhole that is approximately 30 feet deep and avoids installing an addition manhole at a spacing of 150 feet. Experience has shown that manholes can be contributing factors to inflow and infiltration.

If you are in need of additional information or justification to fully consider the requested variance, please contact us at 641-672-2526.

Yours truly,

GARDEN & ASSOCIATES, LTD.

Jack Pope, P.E.

JP

ENGINEERS AND SURVEYORS

FROM : CITY OF WAYLAND

PHONE NO. : 319 256 3276

Jun. 17 2004 12:38AM P1



INCORPORATED

## City of Wayland

City Hall • Box 155 • 218 W. Main Street • Wayland, Iowa 52654

*Christmas Town of Iowa*

Phone/Fax: (319) 256-3276

June 17, 2004

Emy Liu, Project Review Engineer  
IDNR Wastewater Section  
Wallace State Office Building  
502 East Ninth Street  
Des Moines, IA 50319

Re: Sewer Maintenance  
City of Wayland, Iowa

Dear Emy:

The City of Wayland, Iowa is the owner of the wastewater collection and treatment systems serving the City. As required in Chapter 12 of the Iowa Wastewater Facilities Design Standards, we are providing the following written assurance:

**The City of Wayland hires Municipal Pipe and Tool, of Hudson, Iowa, to perform the city's sanitary sewer cleaning. Municipal Pipe and Tool has the necessary equipment capable of cleaning sanitary sewers with manhole spacing at 600 feet.**

Sincerely,  
City of Wayland, Iowa

Brad Roth, Mayor