

TERRY E. BRANSTAD, GOVERNOR Kim Reynolds, Lt. Governor

## STATE OF IOWA

DEPARTMENT OF NATURAL RESOURCES CHUCK GIPP, DIRECTOR

May 17, 2013

Honorable Mayor Curtis Thornhill City of Onslow P.O. Box 25 Onslow, IA 52321

RE: City of Onslow Sanitary Sewer and Lift Station Improvements works DNR Project No. S2011-0300

Subject: Variance Request from 567 IAC 64.2(9) a and Design Standards Section Chapter 12.5.1

Dear Mayor Thornhill:

After careful and thorough consideration, the Department has <u>approved</u> your 04/19/2013 request for a variance from Iowa Administrative Code Subrule 64.2.9 (a) and Chapter 12.5.1 of the Iowa Wastewater Facilities Design Standards, which require: No public gravity sewer shall be less than eight inch in the diameter.

Based on the documentation presented by your Engineer, it is the determination of this Department that satisfactory justification has been presented to warrant the granting of a variance for replacement of existing 4-inch pipes with 6 –inch dia pipe. The requested variance is deemed to be reasonable and necessary pursuant to the Iowa Code section 455B.181.

The facts presented for the project present unique circumstances and the variance is therefore justified to provide the narrowest exception possible to the provisions of the rule in accordance with Rule 561 IAC 10.5. The validity of this variance approval shall last for a period of one year from the date of the construction permit in accordance with Rule 567 IAC 10.5.

This decision is based on our review of justification presented to support the request. Our concurrence with the request is based on the Department's finding that the resulting project will provide substantially equivalent effectiveness as would be provided by technical compliance with the design standard on this issue.

Please feel free to call me at 515-281-8367 or email me at <u>Dinbandhu.gupta@dnr.iowa.gov</u> if you have any further questions.

Sincerely,

helli Kapo

Shelli Grapp Water Quality Bureau Chief

Cc: TeKippe Engineering, Manchester Office, IA DNR FO # 1 DNR Sewage File 6-53-58-0-01

VARIANCE REC	VARIANCE REQUEST		
Iowa Department of Natural Resources			
1. Date: May 9, 2013	14.	Decision: Imme	
2. Reviewer/Engr.: Din Gupta		Date: 5-17-13	
3. Date Received: 04/30/2013			
4. Facility Name: City of Onslow			
5. Facility Number: 6-5358001	15.	Appealed:	
6. County Number: 53	10.	Date:	
7. Program Area: CP (Wastewater)		Bato.	
8. Facility Type: C01			
9. Subject Area:305, minimum sewer size			
10. Rule Reference:507-64.2(9) a			
11. Design Std. Ref.:12.5.1			
12. Consulting Engr.: Fehr Graham			
13. Variance Rule:507-64.2(9) c			
to Deviation of Variance Poquest:			
The All Andreas a variance from the Design Stan	dards w	hich requires " a minimum sewer	
	1 exceni		
L L REALING (CIDD lining) of existing 6 Inch Linder	neaura	Inditival and their excentered and	
main by replacing an existing four inch diameter m	ain with	a new six inch diameter.	
the A I' will lo analyting Engineer's Ilistitication			
17. Applicant's/Consulting Engineer's Justification	main in	the question in the future. No other	
17. <u>Applicant's/Consulting Engineer's ousineaton</u> . A maximum of six houses will be connected to the main in the question in the future. No other development is possible. Requiring an eight inch main will add \$ 30, 000 to the project and will			
development is possible. Requiring an eight inch i	reacon	a as follows here: 1 A six inch has	
development is possible. Requiring an eight incriminant time development is possible. Requiring an eight incriminant time development is possible. Requiring an eight incriminant time development is follows here: 1. A six inch has not provide any benefits to the city or users for the reasons as follows here: 1. A six inch has adequate capacity. The estimated peak hour wet weather flow is 5 gpm and the estimated adequate capacity. The estimated peak hour wet weather flow is 5 gpm and the estimated			
adequate capacity. The estimated peak hour wet	weather	f 6 inch main at 75% denth is 260	
the line of flow is 20 app the Design C	anacuv (		
gpm. 2) Cleaning and maintenance is able to perf	ormed c	n a six inch diameter main as cashy	
on an eight inch diameter main.			
		to the sub-sub-separate poposity for	
The consulting Engineer described the 6-inch dian	neter m	ain has adequate capacity for	
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is a subscription of the manufacture of the subscription of the su			
is installed. In the event a waiver is not granted, the	ne line 4	14 of 6-inch replacement will be	
dropped from the project.			
18. Department's Justification:			
Recommend <b>approval</b> . The 6-inch main has adequate capacity to handle the current flows of existing users and			
The 6-inch main has adequate capacity to handle the output which would provide future flows for additional 6 houses. The 6-inch main has 1 % slope which would provide			
future flows for additional 6 houses. The 6-incit main has 1 % dope this is the flow of th			
minimum scouring velocity. As per the City state		where also submitted an assurance	
evidence of problems in the existing 4-inch lines.	The Cit	interance resulting from the 6-inch	
letter of their ability to provide additional cleaning	and ma	interface resulting norm the	
sewers. Based upon the description and justificat	tion prov	naed by the Engineer, the	
Department recommends approval of this variant	ce.		
19. Precedents Used:			
Previous small community school projects: Unsewer Communities - Kinross, Harper, Keswick			
Plano, Conroy, City of Promise city			
	Location of the second s		
		Date: \$152013	
20. Staff Reviewer:		Date. SISTE	

LWB 5/15/13

Jalys chemipati Date: 5 13 21. Supervisor: 15 Date: 5-16-13 22. Authorized by: Happ elik