

City of Waukesha Department of Public Works 130 Delafield Street Waukesha, WI 53188 Waukesha-wi.gov

Sewer Plan Review Checklist

Attachment H (Rev 12/18)

Project Name: _	Booster Pumping Station and Water Tower	
Engineering & D	Design Firm: Greeley and Hansen LLC	

Sanitary System

YES	NO	N/A	
∀			Minimum 4" sanitary sewer lateral from the main to the property line, PVC SDR 26 or 35 conforming to ASTM standards D 3034 with rubber gasket joints
			Sanitary sewer laterals shall have a green #12 locater wire installed along the entire length. Locater wire shall be brought to the surface at the edge of the building and enclosed in a curb box with "sewer" on the cover.
		\(\)	Sampling manhole required for all food service developments (or developments with the potential to become food service) and industrial/manufacturing facilities.
		D	Industrial facilities must complete an industrial discharge form.
			Outside drop manhole connection required where drop is greater than 24 inches.
			Sanitary Plan View
YES	NO	N/A	
V			Ghost existing utilities and lateral locations in screened format. Label the pipe size of existing utilities.
A			Label the proposed sewer and laterals with length, size, and material type
		V	Material and size of the existing sanitary sewer being connected to.
			Label the stub-outs with length, size, slope, and invert elevations (if not profiled).
			Dimensions showing offset from right-of-way to the sewer and separation distance between other utilities.
		Þ	Show type and size of encasement where needed
		Þ	Show flow directions of all proposed mains.
4			Length of each sewer lateral and height of any lateral risers. Label proposed invert elevations at right-of-way lines.
		V	Distance from downstream manhole to each upstream sewer lateral.
V			Proposed manholes and cleanouts labeled with a design plan number. Existing manholes labeled with numbers obtained from City records.
			Rim and invert elevations at each manhole, based on City of Waukesha datum (for private sewer if not profiled) See Note 1
		V	Show and label all easements
Sanitary Profile View			
YES	NO	N/A	
V			Stationing.
V			Existing and proposed surface profiles and elevations over the sewer.
			All utility crossings. Label elevations if known.

V			Pipe material / class, size, length, and percent grade to two (2) decimal places.
		₩.	Material and size of the existing sanitary sewer being connected to.
		V	Length, type, and size of encasement as needed.
\square			Proposed manholes. Indicate type and diameter.
M			Label station, rim, and invert elevations, based on City of Waukesha datum, and design plan number for each manhole and cleanout. Existing manholes to be labeled with numbers obtained from City records. See Note 1 previous page.
			Limits of gravel and/or slurry backfill.
Sanitary for Subdivisions/Large Developments			
	(Comple	te copies of City specifications for sanitary sewer are available upon request.)
YES	NO	N/A	
		₽	Each parcel should have a separate sanitary sewer lateral.
M			Sanitary sewer – 8 ft. horizontal separation from water main per DNR requirements. 8" diameter minimum size, PVC SDR 26 for depths up to 25 ft.
			Sanitary sewer manhole at every change of direction and a maximum distance of 400 ft.
V			A chimney seal shall be required on all manholes.
		∀′	Provide copies of all approved WDNR/WDOC submittals, including sewer sizing calculation worksheet and the area served.

Storm System

Storm Plan View			
YES	NO	N/A	
			Ghost existing utilities and lateral locations in screened format. Pipe size of existing utilities labeled.
M			Proposed sewer and laterals with length, size, and material type clearly labeled.
		Þ	Material and size of the existing storm sewer being connected to.
		V	Stub-outs labeled with length, size, slope, and invert elevations (if not profiled).
		\(\sqrt{ \chi}\)	Dimensions showing offset from right-of-way to the sewer and separation distance between other utilities.
		M,	Type and size of encasement where needed
		M	Length of any sewer lateral. Label proposed invert elevations at right-of-way lines.
V			Proposed inlets, manholes, and other drainage structures.
✓			Proposed drainage structures labeled with a design plan number. Existing drainage structures labeled with numbers obtained from City records.
₩/			Details of outfall or ditch inlet protection requirements such as rip-rap, end sections or headwalls as needed.
₩			Details of detention facilities, outfall, overflow and control structures as needed.
			Storm Profile View
YES	NO	N/A	
V			Stationing.
V			Existing and proposed surface profiles and elevations over the sewer.
₩.			All utility crossings. Label elevations if known.
V			Pipe material / class, size, length, and percent grade to two (2) decimal places.
		Þ	Material and size of the existing storm sewer being connected to
		þ	Length, type, and size of encasement as needed.
√			Proposed inlets, manholes, and other drainage structures. Label type and size.
M			Label station, rim, and invert elevations, based on City of Waukesha datum, at each manhole, catch basin, inlet, and detention control structure. See Note 1 on previous page.

		Proposed drainage structures labeled with a design plan number. Existing drainage structures to be labeled with numbers obtained from City records.
Q X		Cross-section of open channels and detention facilities, including outfall, overflow, and control structures.
\square		Limits of gravel and/or slurry backfill.

General System

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YES	NO	N/A		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			Show all easements, public or private.	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			No structures allowed within a public easement.	
			Plantings or signs within public easements, if permitted by City, shall be at least 5 feet from the utilities.	
			General for Subdivisions/Large Developments	
YES	NO	N/A		
M			Provide plans sealed by Registered Professional Engineer	
			Show benchmark, north arrow and scale.	
A			Show existing/proposed sewer and water utilities.	
∀′			All sewer to be installed by the developer under the terms of a Development Agreement.	
			Utility Plans	
YES	NO	N/A		
M			Location of all utilities: storm and sanitary sewers, water mains, fire hydrants, electrical, natural gas, and communication (cable television, telephone, etc.) lines	
₩			Exterior lighting for parking and other outdoor areas, outdoor signs, and building exteriors.	
		M	Location of waste and trash collection, and indicate plans for snow removal.	
√/			Location and footprint of any and all buildings	
VZ			Location and names of existing and proposed streets	
			Location and size of existing and proposed storm sewer, sanitary sewer, and water utility systems shown	
			Electric, gas, telephone, and cable lines shown	
₽/			All new utilities are underground	
V			Exterior lighting detail provided	
√			Location of all utility and private fire hydrants	
		V,	Sampling manhole shown (if applicable)	
		A	Grease interceptor shown (if applicable)	
V			Location and size of existing and proposed water meters	
Includ	Include the following notes on the Utility Plan:			
YES	NO	N/A		
V			All sanitary sewer to be installed in accordance with City of Waukesha standards.	
			All applications and fees for sanitary sewer must be completed and paid prior to connection to sewer systems.	
M			Any utility work in the right-of-way and all sanitary sewer connections to be inspected by City. Notify City 72 hours in advance of connecting to sewer.	
The ab	The above list contains items that are commonly missed on Utility Plans. For subdivisions or other large or complex			
projects, a complete plan review includes many more checks too numerous to list here. Please call (262) 524-3600 for				
additional information. City typical sewer details can be provided upon request. Note: For water main, contact Waukesha Water Litility at (262) 521-5272				

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