# City of Waukesha

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:	THE RE	SERVE	AT	WAUKESHA		
Engineering & Desig	n Firm:	R.A.	Smi	TH		

### **Sanitary System**

Minimum 4" sanitary sewer lateral from the main to the property line, PVC Si 35 conforming to ASTM standards D 3034 with rubber gasket joints Sanitary sewer laterals shall have a green #12 locater wire installed along the length. Locater wire shall be brought to the surface at the edge of the building enclosed in a curb box with "sewer" on the cover.  Sampling manhole required for all food service developments (or development the potential to become food service) and industrial/manufacturing facilities.  Industrial facilities must complete an industrial discharge form.  Sanitary Plan View  YES NO N/A  Ghost existing utilities and lateral locations in screened format. Label the pipe existing utilities.  Label the proposed sewer and laterals with length, size, and material type with material and size of the existing sanitary sewer being connected to.  Label the stub-outs with length, size, slope, and invert elevations (if not proficulties).  Material and size of fencasement where needed  Show flow directions of all proposed mains.  Length of each sewer lateral and height of any lateral risers. Label proposed elevations at right-of-way lines.  Show type and size of encasement where needed  Show flow directions of all proposed mains.  Length of each sewer lateral and height of any lateral risers. Label proposed elevations at right-of-way lines.  Proposed manholes and cleanouts labeled with a design plan number. Exist manholes labeled with numbers obtained from City records.  Rim and invert elevations at each manhole, based on City of Waukesha datu private sewer if not profiled)  Show and label all easements  Sanitary Profile View  YES NO N/A  Stationing.	YES	NO	N/A		
Sanitary sewer laterals shall have a green #12 locater wire installed along the length. Locater wire shall be brought to the surface at the edge of the building enclosed in a curb box with "sewer" on the cover.				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	
the potential to become food service) and industrial/manufacturing facilities.	汝			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.	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			Ď		
Sanitary Plan View           YES         NO         N/A           □         □         Ghost existing utilities and lateral locations in screened format. Label the pip existing utilities.           □         □         □         Label the proposed sewer and laterals with length, size, and material type           □         □         □         Material and size of the existing sanitary sewer being connected to.           □         □         □         Label the stub-outs with length, size, slope, and invert elevations (if not profice the proposed sever lateral and proposed to proposed to propose the proposed sever of the existing sanitary sewer lateral and separation districts the proposed delevations of all proposed mains.           □         □         □         Show type and size of encasement where needed           □         □         Show flow directions of all proposed mains.           □         □         Show flow directions of all proposed mains.           □         □         □         Show flow directions of all proposed mains.           □         □         □         Distance from downstream manhole to each upstream sewer lateral.           □         □         □         Distance from downstream manhole to each upstream sewer lateral.           □         □         □         Proposed manholes and cleanouts labeled with a design plan number. Exist manholes labeled with numbers obtained f			<b>⊠</b>	Industrial facilities must complete an industrial discharge form.	
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private sewer if not profiled) Show and label all easements  Sanitary Profile View  YES NO N/A  Stationing.	泫			Proposed manholes and cleanouts labeled with a design plan number. Existing manholes labeled with numbers obtained from City records.	
Sanitary Profile View  YES NO N/A  □ □ □ Stationing.	K			Rim and invert elevations at each manhole, based on City of Waukesha datum (for private sewer if not profiled)	
YES NO N/A  □ □ □ Stationing.	Ď			Show and label all easements	
□ □ Stationing.					
	YES	NO	N/A		
			K	Stationing.	
□ □ □ Existing and proposed surface profiles and elevations over the sewer.			[Z]	Existing and proposed surface profiles and elevations over the sewer.	
□ □ ជ. All utility crossings. Label elevations if known.			<b>1</b> X	All utility crossings. Label elevations if known.	

		M	Pipe material / class, size, length, and percent grade to two (2) decimal places.		
		M	Material and size of the existing sanitary sewer being connected to.		
		M	Length, type, and size of encasement as needed.		
		×	Proposed manholes. Indicate type and diameter.		
		A	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.		
		K	Limits of gravel and/or slurry backfill.		
	Sanitary for Subdivisions/Large Developments				
	(Complete copies of City specifications for sanitary sewer are available upon request.)				
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YES	NO	N/A			
YES	NO 🗆	N/A	Each parcel should have a separate sanitary sewer lateral.		
1			Each parcel should have a separate sanitary sewer lateral.  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.		
A			Sanitary sewer – 8 ft. horizontal separation from water main per DNR requirements. 8"		
×			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		

# Storm System

Storm Plan View					
YES	NO	N/A			
	X		Ghost existing utilities and lateral locations in screened format. Pipe size of existing utilities labeled.		
K			Proposed sewer and laterals with length, size, and material type clearly labeled.		
	Ø		Material and size of the existing storm sewer being connected to.		
X			Stub-outs labeled 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.		
		Ø	Type and size of encasement where needed		
			Length of any sewer lateral. Label proposed invert elevations at right-of-way lines.		
M			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.		
		П	Details of outfall or ditch inlet protection requirements such as rip-rap, end sections or headwalls as needed.		
K			Details of detention facilities, outfall, overflow and control structures as needed.		
Storm Profile View					
YES	NO	N/A			
		75	Stationing.		
		凶	Existing and proposed surface profiles and elevations over the sewer.		
		凸	All utility crossings. Label elevations if known.		
		NA NA	Pipe material / class, size, length, and percent grade to two (2) decimal places.		
		K	Material and size of the existing storm sewer being connected to		
		函	Length, type, and size of encasement as needed.		
		[2]	Proposed inlets, manholes, and other drainage structures. Label type and size.		
		1/21	Label station, rim, and invert elevations, based on City of Waukesha datum, at each manhole, catch basin, inlet, and detention control structure.		

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

# **General System**

YES	NO	N/A			
\Z			Show all easements, public or private.		
×			No structures allowed within a public easement.		
K			Plantings or signs within public easements, if permitted by City, shall be at least 5 feet from the utilities. (XE CAPOSCAPING CHECKLIST)		
			General for Subdivisions/Large Developments		
YES	NO	N/A			
βC			Provide plans sealed by Registered Professional Engineer		
#			Show benchmark, north arrow and scale.		
XXXXX			Show existing/proposed sewer and water utilities.		
\X			All sewer to be installed by the developer under the terms of a Development Agreement.		
			Utility Plans		
YES	NO	N/A			
汝			Location of all utilities: storm and sanitary sewers, water mains, fire hydrants, electrical, natural gas, and communication (cable television, telephone, etc.) lines		
	M		Exterior lighting for parking and other outdoor areas, outdoor signs, and building exteriors.		
K			Location of waste and trash collection, and indicate plans for snow removal.		
X			Location and footprint of any and all buildings		
X			Location and names of existing and proposed streets		
	-		Location and size of existing and proposed storm sewer, sanitary sewer, and water		
	<u> </u>		utility systems shown		
XI			Electric, gas, telephone, and cable lines shown		
<b>K</b>			All new utilities are underground		
	X		Exterior lighting detail provided		
X			Location of all utility and private fire hydrants		
		Ø	Sampling manhole shown (if applicable)		
		M	Grease interceptor shown (if applicable)		
	<b>k</b> a		Location and size of existing and proposed water meters		
Include the following notes on the Utility Plan:					
YES	NO	N/A			
TA			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.		
ď			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 above list contains items that are commonly missed on Utility Plans. For subdivisions or other large or complex				
			an review includes many more checks too numerous to list here. Please call (262) 524-3600 for City typical sewer details can be provided upon request.		
	Note: For water main, contact Waukesha Water Utility at (262) 521-5272				
Note. For water main, contact wateresha water only at (202) 021-0212					