

August 2020

CITY OF ROCKVILLE
DEPARTMENT OF PUBLIC WORKS (DPW)
111 Maryland Avenue
Rockville, Maryland 20850
240-314-8500

www.rockvillemd.gov

Project Information:		
Project Name:		
Legal Description: Subdivision:	Lot(s) and Block(s): Parcel(s):	
Property Address:		
Tax Acct. ID(s):		
Engineering Firm:		
Contact Person:	<u></u>	
Phone Number:		
Email Address:		
PDS Case No:	<u></u>	
DPW PWK Permit No.	(assigned by DPW)	
DPW SMP Permit No:	(assigned by DPW)	
DPW SCP Permit No:	(assigned by DPW)	
Proposed Water and Sewer Work: (Check all the	nat apply)	
Abandon existing water	Abandon existing sewer	
(main and/or connection)	(main and/or connection)	
Construct new water	Construct new sewer	
(main and/or connection)	(main and/or connection)	
Fire hydrant	Other	
items in this checklist must be addressed. The eng the status by completing the left hand column entitiems that are marked INC (incomplete) must be a completed in accordance with this guidance and the Legend: Complete or Provided, N/A =	Not Applicable, INC = Incomplete (provide explanation) acceptance, review and approval process. All of the items in SECTION A - th the initial submission for the City to accept the package and forward it to)
	ected. Once forwarded to the Reviewer, the Reviewer will have one week to ON B - SUBMISSION REQUIRMENTS. Failure to include the required item rejection of the submission without review. Date	ιS
Signature of Responsible Person Title	Responsible Person's Name	

Initial Rockville's Review Submission 2nd 3rd 1st A) APPLICATION SECTION (Submissions shall be made using the City's Virtual Permit Application portal available at www.rockvillemd.gov) Completed and signed Public Works Improvement Plan (PWK) Application Review Fee (Check made out to City of Rockville). Fee amount is based on estimated cost of public improvement work and per the Public Works Development Fee Schedule. Estimates shall use City Standard Prices for Cost Estimating as may be updated - available at: www.rockvillemd.gov/286/Streets-Driveway-Right-of-Way A Public Improvement Plan Resubmission Review Fee is required beginning with the fourth submission One digital (PDF) copy of the proposed plans. Plans must be on 24" x 36" sheets and must utilize the standard City base sheet. Vector-Based PDF files are required for all plans, calculations, reports and other supporting documentation. It is recommended that drawings created in AutoCAD are converted to Vector-Based PDF by using the Autodesk Vector Graphic Converter "DWG to PDF.pc3 plotter driver." **B) SUBMISSION REQUIRMENTS** Transmittal explaining purpose of the submission including explanation of any unusual circumstances One digital (PDF) copy of the Signature Set and approval letter for the related PDS Plan Copy of DPW Water and Sewer Authorization Letter, if applicable One digital (PDF) copy of proposed water and/or sewer easements [second submission]. Easements may be dedicated by plat or by separate document and must be recorded prior to permit issuance. On-site and Off-site easements must be executed prior to plan approval One digital (PDF) copy of Storm Drain Plans for informational purposes and to check crossings [second submission] Documentation that plans have been sent to affected utility companies (PEPCO, Verizon, Washington Gas, COMCAST) for coordination Public Improvement bond estimate [second submission] State of MD Professional Engineer certification on the first sheet of the plan set AutoCAD file of all public improvements, suitable for use in ESRI ArcMap. Required upon City's request prior to as-built approval C) GENERAL INFORMATION Include standard notes on the plan: City of Rockville General Notes, Water and Sewer Notes, and Geotechnical Notes (available at www.rockvillemd.gov) All aspects of water and sewer designed in accordance with WSSC standards, specifications and details unless otherwise indicated or directed Add note to all applicable plan and profile sheets where new construction is proposed: Restrain all pipes and fittings Provide water blocking and thrust restraint calculations if connecting to an existing, non-restrained water system or when non-standard details are included in the design Crossings with existing utilities require test pits to verify horizontal and vertical information. If test pits are not performed before plan approval, encountered field conflicts may result in the need to resubmit revised plans to DPW for review and approval. Project delays may occur and additional review fees may be incurred

Initia	ત્રી	Ro	ockville's Re	eview
Subn	nission	1st	2nd	3rd
C)	GENERAL INFORMATION (continued)			
6	Perform soil borings for new subdivisions and/or projects proposing more than			
<u> </u>	1,000 feet of new public water and/or sewer. Provide a minimum two borings per 1,000 feet of main. Provide a geotechnical report prepared by a qualified professional that identifies recommendations for utility construction, including bedding. Geotechnical recommendations must be incorporated into the design unless otherwise directed. Soil report submitted no later than second submission			
7	Completed Plumbing Application and applicable fees submitted to Inspection			
/	Services Division (PDS). Refer to ISD Fee Schedule - available at: https://www.rockvillemd.gov/DocumentCenter/View/477/Fee-Schedule Inspection-Services-Division?bidId=			
8	Water and Sewer Plan may be approved but PWK permit will not be issued until the other required DPW permits are issued			
D)	BASE SHEET			
1	Scale 1" = 30' or larger with Legend, North arrow and Datum (NAD 83/91,			
	NGVD 88) unless otherwise approved. Provide two benchmarks with location, elevation and description. Provide two graticule tick marks per plan view sheet for georeferencing			
2	Vicinity Map (1" = 2000') with site outlined/labeled in upper right hand corner			
3				
4				
5	(subdivision, lots, parcels and blocks), election district, etc.			
6	* *			
7 8				
0	[mylar submission]			
9				
E)	PLAN VIEW			
1				
	project limits			
2	Proposed right-of-way or easement dedication delineated with acreage and square footage noted. Provide minimum 20' wide easement for water or sewer main and minimum 30' wide easement for parallel water and sewer			
3	Existing and proposed public and private streets with rights-of-way shown and widths labeled			
4	Adjacent property information with owner name, property address and legal description (i.e. subdivision, lot and block.) If adjacent property is part of the proposed subdivision only lot and block is required			
5	All existing and proposed easements shown and labeled with limits, use and			
	liber/folio or plat and plat book. Include P.U.E.s			
6	Existing topography and proposed grading at two (2) foot contour interval (only required for sewer outfalls unless otherwise directed)			
7	Natural resources such as streams, drainage ways, wetlands, wetlands buffer and 100 year floodplains. Note: 100 year floodplains exist when the drainage area to any point on the property ≥ 30 acres			
8	Existing trees including type and size as shown on the approved NRI/FSD			
9				
	sidewalk, etc.) shown and labeled to remain, to be removed, to be abandoned, to be relocated, etc.) Layers to be lighter or screened for clarity			

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E)	PLAN VIEW (continued)			
	Overhead utilities including utility poles, streetlights, traffic signal poles and			
	equipment. Underground utilities including location, type, material and sizes.			
	Crossings with existing utilities will require test pits to verify horizontal and vertical			
	information			
11	Existing water and sewer and appurtenances within the project limits. Include field			
	verified location, size and material for: existing manholes, water and sewer mains,			
	individual service connections, fire hydrants and valves, including nearest hydrant			
	and valve for shut off. Provide field shot inverts and sizes for all pipes into and out			
	of manholes and tops of structures			
12 _	Proposed improvements within project limits (buildings, paving, curb and gutter,			
	sidewalk, etc.)			
13 _	Basement and first floor elevations for each structure			
14 _	Proposed utilities within the project limits (storm drain pipes and structures, gas,			
	electric, cable, etc.) Label size and material			
15 _	Proposed water mains including size, pressure class, all fittings and blocking.			
	Stationing must coordinate with the profile			
	Proposed valves			
	Proposed fire hydrants			
18 _	Water service connection to each lot, parcel, or building shown and labeled. (Sizes			
	to be approved by ISD. Locations to be approved by DPW.)			
19 _	Water meters shown and labeled. (Sizes to be approved by ISD. Locations to be			
	approved by DPW.) Water meter to be placed one (1) foot behind right-of-way into			
•	private property unless otherwise approved			
20 _	Show and label water blocking and pipe restraints with WSSC standard detail			
	number. If blocking or restraint is not standard, label as such and provide a special			
21	detail on the plan			
ZI _	Proposed sewer mains including size, material, class and direction of flow indicated with an arrow to match the profile. Minimum eight (8) inch sewer size			
22	Manhole numbers to match profiles. Label manholes with drop connections or			
<i>_</i>	transition manholes			
23	Sewer service connections shown and labeled with size and material			
	Cleanouts shown and labeled. Cleanouts to be located at property line			
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	regent for an emoting and proposed pain elements that are not appeared			
F)	WATER PROFILE			
1	Scale: Horizontal 1" = 50' and Vertical 1" = 5', or greater			
	Finished and/or approved grade shown and labeled			
	Profiles drawn to match direction of water main on plan view			
	Stationing to match plan view with stations of all valves, bends, tees, etc. shown			
	Mains shown with sizes and material labeled			
	Four (4) feet of cover over finished and/or approved grade or existing street grade			
7	Crossings with existing and/or proposed utilities shown and labeled. Include type,			
	material, size and invert of utility at crossing. Minimum one and one-half (1.5) feet			
	vertical clearance between water and sewer, and minimum one (1.0) foot vertical			
0	clearance from all other utilities (measured outside to outside)			
8_				
	labeled			

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G)	SEWER PROFILE			
1	Scale: Horizontal 1" = 50' and Vertical 1" = 5', or greater			
	Finished and/or approved grade shown and labeled			
3	Profiles drawn to match direction of sewer main on plan view			
	Pipe lengths with 0+00 set at lowest invert per run			
5	Mains shown with sizes, material, class and slopes as percentage and to the hundredth decimal place			
6	Sewer designed to normal maximum depth of up to ten (10) feet unless otherwise required due to site or utility clearance constraints and as approved by DPW			
7	Minimum slopes must be per WSSC criteria and as approved by DPW. Terminal sewer sections must be a minimum of 1.0%			
8	Label all inverts to the hundredth decimal place			
	Material to be ductile iron for all sewer steeper than 10% and at stream crossings. Stream crossing protection shown and standard detail labeled or provided special detail if non-standard			
10_	Manhole drop connections labeled. Only inside drop method will be permitted			
11 _	Minimum of one-tenth (0.10) foot channel drop through standard manholes			
12 _	Manhole numbers shown to match plan view with field verified rim elevations and slope as percentage to the hundredth decimal place			
13 _	Rim elevations and depths labeled. Rim elevations are to be field verified when manholes are to be set in existing ground or existing streets. Frame and cover to be set flush with existing, proposed or approved grade as applicable			
14 _	When manholes are located in environmentally sensitive areas (forests, streams, etc.), frames and covers shall be set at one (1) foot above existing ground			
15 _	Crossings with existing/proposed utilities shown and labeled. Include type, material, size and invert of utility at crossing. Minimum one (1) foot vertical			
16	All SHCs shown with address, parcel or lot/block labeled			
	Minimum 2% slope for all SHCs			
	Sewer to be concrete encased wherever sewer crosses OVER water main. Show and label standard detail number or special detail if non-standard			
H)	SPECIFIC DESIGN REQUIRMENTS			
1_	Water and Sewer Pipe and Structure Schedule with material list			
2	Maintain a minimum of ten (10) feet horizontally between water and sewer, and			
	between existing/proposed water and/or sewer and all other structures, utilities and apprutenances (measured outside to outside)			
3	Maintain a minimum of five (5) feet horizontally between existing/proposed storm			
	drain pipes and structures, utility poles, dry utilities and appurtenances, conduits, etc. (measured outside to outside)			
4	Maintain a minimum 15 feet between water and/or sewer mains (12" dia. or under) and buildings, and a minimum 25 feet from buildings (15" dia. or larger)			
5	Minimum fire hydrant spacing shall be 500' in single family developments and 250' to 300' in townhouse and all other areas. Locate hydrants on lot lines and in accordance with WSSC guidelines and/or as directed by DPW and Inspection Services Division (ISD)			
6	Fire hydrants must be strapped to mains			

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H) SP	ECIFIC DESIGN REQUIRMENTS (continued)			
7	All pipe joints and fittings for new construction must be restrained			
8				
9	Provide minimum valve spacing to allow shut off of 50 residential units or two street blocks and at all fire hydrant leads			
10	Minimize the number of water bends. Minimum 300' radius for DIP and minimum 820' radius for C-900			
11	Water should be located seven (7) feet off centerline of proposed curb and gutter			
12	Each commercial building, lot or parcel must have a separate sewer and water service connections with meter unless otherwise permitted by City code			
13	Manholes should be located outside of driveways aprons, sidewalks, handicap ramps, bike paths and parking spaces whenever possible or as directed			
14	Note: All pressure sewer systems and grinder pumps are to be designed in accordance with WSSC standards, specifications and details			
15	When only first floor service is proposed, verify and demonstrated that adequate cover over the service connection is achieved within the property			
16	When water meters are located on private property they must be placed in an easement. Delineate the easement on the plan and label the dimensions			
17	*			
СОММ	ENTS:			