

## 'DR' Type DRP Project Design Checklist for ePlan Review

The 'DR' type Developer Relocation Process (DRP) Project Design Checklist is to serve as a guide, for engineers and WSSC personnel, for preparation and review of water and sewer construction drawings. Any questions regarding items contained herein should be referred to the WSSC Project Manager for clarification. References to the applicable page number or section in the WSSC Pipeline Design Manual are provided in columns to the right. This checklist is located on the WSSC website at [wsscwater.com / Business & Construction / Development/Construction Services / Developers Forms & Fees / WSSC ePlan Review](http://wsscwater.com / Business & Construction / Development/Construction Services / Developers Forms & Fees / WSSC ePlan Review).

**Engineer: Please complete the below checklist.**

Indicate √ = Checked; X = Not Applicable, O = Outstanding in the second column under DR Checklist Item #.

		Developer Relocation Projects (DRP) 'DR' Type projects are for the relocation of WSSC water and/or sewer mains by a developer.		
		<b>Effective July 1, 2015</b> <b>all new 'DR' Type DRP plans are to be submitted electronically to WSSC Development Services Group (DSG) for review.</b>		
Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
<input checked="" type="checkbox"/>	1	<b>WSSC DR BASE TEMPLATE (WSSC-DRP.dwt).</b> Use for <i>all</i> 'DR' type Developer Relocation Process (DRP) project plan submittals. Ensure the WSSC approval/signature block area location remains unchanged. Ensure plan is legible. Refer to Applicant Guide.	Applicant Guide	
<input checked="" type="checkbox"/>	2	<b>WSSC LAYER GUIDELINES.</b> Layers are required for all 'DR' type DRP project plan submittals. NOTE: The use of the WSSC AutoCAD Standard Layer Naming Convention is encouraged, but not required at this time. Refer to WSSC Base Template (WSSC-DRP.dwt).	Applicant Guide	
<input checked="" type="checkbox"/>	3	<b>DSG DRAFTING STANDARDS (PDF).</b> Use DSG Drafting Standards for all 'DR' type DRP project plan submittals. The plan must be legible and utilize WSSC line-type / line-weight. Refer to Applicant Guide.	Applicant Guide	
<input checked="" type="checkbox"/>	4	<b>ELECTRONIC FILES.</b> Use the File Naming Convention for all uploaded files. Refer to Applicant Guide.	Applicant Guide	
<input checked="" type="checkbox"/>	5	<b>ELECTRONIC FILES.</b> Ensure each file type is uploaded into the correct folder. Refer to Applicant Guide.	Applicant Guide	
<input checked="" type="checkbox"/>	6	<b>ELECTRONIC FILES.</b> Ensure the file(s) uploaded in the Drawings Folder <i>do not contain</i> more than one sheet per file. Refer to Applicant Guide.	Applicant Guide	
<input checked="" type="checkbox"/>	7	<b>FEES - 'DR' type DRP PROJECT DESIGN REVIEW FEE.</b> The 'DR' type DRP Project Design Review Fee is due with the first submittal. No more than two formal reviews of the 'DR' type DRP Project plans/drawings are included in this fee. Refer to current fee sheet for amounts.	DR Checklist	
<input checked="" type="checkbox"/>	8	<b>FEES - 'DR' type DRP PROJECT EXTRA REVIEW FEES.</b> An extra review fee will be charged for each additional (extra) review over the two (2) formal reviews covered under the 'DR' type DRP Project Design Review Fee. Refer to current fee sheet for amounts.	DR Checklist	
<input checked="" type="checkbox"/>	9	<b>FEES - PRE-SCREEN RE-SUBMISSION FEE FOR DESIGN REVIEW (Prescreen Review).</b> A fee to recover WSSC costs incurred for processing a prescreen review of a plan review submission and rejecting it for having insufficient information or inadequacies. Refer to current fee sheet for amount.	DR Checklist	

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	10	<b>DR type DRP PROJECT DESIGN CHECKLIST FOR EPLAN REVIEW.</b> Submit a completed copy of the checklist.	DR Checklist	
<input checked="" type="checkbox"/>	11	<b>COMPOSITE PLAN.</b> Provide a composite plan in addition to the normal design plan submission for all plans that the plan view is on more than three (3) sheets. The composite plan must be a separate file uploaded into ePlan Review. Refer to the Applicant Guide for correct file naming convention. This composite plan will aid WSSC in its review of projects.	DR Checklist	
<input checked="" type="checkbox"/>	12	<b>CORPORATION/ENTITY INFORMATION FORM.</b> Provide a <u>completed</u> Corporation/Entity Information Form.	DR Checklist	
	13	<b>AGREEMENTS - (Paving Replacement, Relocations, etc.).</b> Provide agreements or required information to the WSSC Project Manager.	DR Checklist	
	14	<b>CORRESPONDENCE - OTHER AGENCIES.</b> Correspondence from regulatory agencies with restrictions relating to design, construction and maintenance of the water and sewer system (national park service, critical area commission, etc.) (if applicable).	DR Checklist	
	15	<b>SUPPORT DATA -</b> Plans will not be accepted without complete support information. All supporting plans listed below must be approved (with the possible exception of site utility (on-site) water and sewer plans) prior to approval of the Developer Relocation Process (DRP) Permit. (circle unapproved/approved status as applies on the 'DR' type DRP Project Design Checklist for ePlan Review).	Pipeline Design Manual - 2008	Pages G-1 and G-2.
	16	<b>SUPPORT DATA - STORM DRAIN PLANS. STORMWATER MANAGEMENT PLANS and/or ENVIRONMENTAL SITE DESIGN (ESD) PLANS.</b> Provide a copy of the Approved Storm Drain and Paving Plans, Stormwater Management Plans and/or ESD Plans (showing all proposed storm drainage piping and stormwater management control devices including Micro Bioretention, BioFiltration Ponds, Rain Gardens, Infiltration Trenches, etc.). NOTE (1): If plans are not yet approved by County, the unapproved plans are acceptable at time of submittal. NOTE (2): The APPROVED plans are REQUIRED before the 'DR' type DRP plan can be signed, therefore additional 'DR' type DRP plan reviews may be required which will incur additional review costs. NOTE (3): Always submit the first sheet, then provide only the specific sheet(s) of plan and profile applicable for the project. It is not necessary to submit all sheets of the plan.	DS Code 1404.2	Page 135
	17	<b>SUPPORT DATA - STREET GRADES.</b> Provide a copy of the Approved street grades for proposed public streets. NOTE (1): If plan is not yet approved by county, the unapproved plan is acceptable at submittal time. NOTE (2): The APPROVED plan is REQUIRED before the 'DR' type DRP plan can be signed, therefore additional 'DR' type DRP plan reviews may be required which will incur additional review costs.	DS Code 1404.2	Page 135

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	18	<b>SUPPORT DATA - SEDIMENT CONTROL PLAN.</b> Provide a copy of the Approved sediment control plans. NOTE (1): If plan is not yet approved by county, the unapproved plan is acceptable at submittal time. NOTE (2): The APPROVED plan is REQUIRED before the 'DR' type DRP plan can be signed, therefore additional 'DR' type DRP plan reviews may be required which will incur additional review costs. NOTE (3): All sediment control plan reviews will be electronic. Do NOT submit a separate sediment control plan package to the Environmental Group. The Sediment Control Sticker will be provided directly to the WSSC Project Manager. NOTE (4): Always submit the first sheet, then provide only the specific sheet(s) of plan and profile applicable for the project. <b><i>It is not necessary to submit all sheets of the plan.</i></b>	DS Code 1404.2	Page 135
<input checked="" type="checkbox"/>	19	<b>EROSION AND SEDIMENT CONTROL PERMIT APPLICATION - Major (E&amp;S).</b> Effective 1-13-2014, provide the application for Erosion and Sediment Control Permit for Major Utility Construction. Complete the top portion of the permit application. NOTE: The E&S Permit Application is not required for State (including University of Maryland) or Federal property or County Public Works projects in Montgomery or Prince George's Counties.	DS Code 1404.2	Page 135
	20	<b>SUPPORT DATA - RECORDED PLAT.</b> Provide a copy of recorded plat(s). If unavailable at submittal time, provide a copy of proposed plat(s).	DS Code 1404.2	Page 135
	21	<b>SUPPORT DATA - MNCPPC PRELIMINARY PLAN.</b> Provide a copy of the MNCPPC Preliminary Plan or Detailed Site Plan. NOTE: Will not be available for previously recorded residential properties.	DS Code 1404.2	Page 135
	22	<b>SUPPORT DATA - FOREST CONSERVATION PLAN.</b> Provide a copy of the Approved Forest Conservation Plans (If applicable). NOTE (1): If plan is not yet approved by county, the unapproved plan is acceptable at submittal time. NOTE (2): The APPROVED plan is REQUIRED before the 'DR' type DRP plan can be signed, therefore additional 'DR' type DRP plan reviews may be required which will incur additional review costs.	DS Code 1404.2	Page 135
	23	<b>SUPPORT DATA - SITE PLANS.</b> Provide Site Plans (if prepared) showing; street and lot layout, grading and other proposed site improvements.	DS Code 1404.2	Page 135
	24	<b>SUPPORT DATA - SITE UTILITY PLANS.</b> Provide a copy of all associated proposed site utility (formerly onsite) project plans (if available).	DS Code 1404.2	Page 135
<input checked="" type="checkbox"/>	25	<b>SUPPORT DATA - WSSC WATER AND SEWER PLANS.</b> Provide a copy of all existing WSSC contract as-built plans for water and/or sewer mains (plans are acceptable if as-builts are not available) that connect to the proposed 'DR' type DRP plan. <b>Highlight the point(s) of connection.</b> NOTE (1): Always submit the first sheet of contract plan, then provide only the specific sheet(s) of plan and profile applicable for the project. <b><i>It is not necessary to submit all sheets of the contract plan(s).</i></b> NOTE (2): Include all proposed facilities. In addition, delineate existing R/W's and show WSSC existing facilities on plan with profile information (if proposed construction impacts existing WSSC facilities). Proposed 'DR' type DRP plan copy must have the WSSC job number on the plan.	DS Code 1404.2	Page 135

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	26	<b>SUPPORT DATA - EXISTING DRY UTILITIES.</b> Contact local utility companies for existing telephone conduit, electric conduit, cable TV conduit, gas mains and any other existing dry utilities. Provide correspondence with local utility companies. Supporting documentation of existing dry utility plans must be dated within 6 months of plan approval.	Pipeline Design Manual - 2008	Page G-1.
	27	<b>SUPPORT DATA - PROPOSED DRY UTILITIES.</b> Provide other proposed dry utility plans showing gas, electric, cable TV, etc. and correspondence.	DS Code 1404.2	Page 135
	28	<b>SUPPORT DATA - TOPOGRAPHY.</b> Provide current detailed topography in areas not to be graded.	DS Code 1404.2	Page 135
	29	<b>SUPPORT DATA - PAVING.</b> Submit correspondence regarding planned paving/resurfacing by County/State.	DS Code 1404.2	Page 135
	30	<b>SUPPORT DATA - EXISTING WHC &amp; SHC.</b> Research and show on plan and profile all existing WHC'S and SHC's in vicinity of proposed project.	DS Code 1404.2	Page 135
	31	<b>SUPPORT DATA - EXISTING FACILITIES IMPACT.</b> Provide a copy of correspondence to WSSC regarding any necessary relocations and impact on existing facilities. Be mindful of impacts to existing WSSC facilities beyond the limits of the current water & / or sewer design. (ie. off-site storm drainage, grading improvements, etc...)	DS Code 1404.2	Page 135
	32	<b>SUPPORT DATA - ENVIRONMENTAL SITE CONTAMINATION SCREENING SUBMITTALS.</b> The <b>Environmental Questionnaire</b> plus either the <b>WSSC Database Search Request</b> or a <b>Phase I Environmental Site Assessment Report</b> (Phase 1 ESA Report) <u>may be required</u> by WSSC for a 'DR' type DRP project on a case by case basis. If required, the PM will notify the engineer via formal review comments and the applicable fee will be due on next resubmit. (Note: A Hydraulic Planning Analysis (HPA) is not required for 'DR' type DRP projects.)	Pipeline Design Manual - 2008	Page C-19.2 & Part 3, Section 24
	33	<b>SUPPORT DATA - SOIL REPORT.</b> Provide a Soil Report wherever required for special design; e.g., blocking, tunnels, structures, CIP size mains, etc. If required, provide the following: 1) Soil boring location plan. 2) Borings by developer to be in accordance with Appendix E and F. 3) Coordinates (scaled) provided on each soil boring log. Appendix E-3. 4) A copy of Soil Data or Soil Report. Appendix E-3.	Pipeline Design Manual - 2008	Page C-20.1 & C-26.4
	34	<b>SUPPORT DATA - SPECIAL PROVISIONS TO SPECIFICATIONS.</b> Provide Special Provisions to Specifications, if required. Identify and submit technical information necessary to prepare Special Provisions and include Special Provisions in the 'DR' type DRP Plan Contract Documents.	Pipeline Design Manual - 2008	Page C-6.1.
	35	<b>PRESSURE SEWERS (GRINDER PUMP SYSTEMS) - Sizing the pressure sewer lines must be approved by WSSC.</b>	Pipeline Design Manual - 2008	Pages S-25.1 thru S-25.7.
	36	<b>PRESSURE SEWERS (GRINDER PUMP SYSTEMS) - Compare sizing of pipe diameters for PVC and HDPE.</b>	Pipeline Design Manual - 2008	Pages S-25.1 thru S-25.7.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	37	<b>PRESSURE SEWERS (GRINDER PUMP SYSTEMS)</b> - Compare size of pressure sewers for consistency between calculations, plans and profiles. (i.e. Pipe Size, # of Units, Pipe Material (i.e. PVC, HD8E, etc.)	Pipeline Design Manual - 2008	Pages S-25.1 thru S-25.7.
	38	<b>PRESSURE SEWERS (GRINDER PUMP SYSTEMS)</b> - Verify cellar elevations on drawings are compatible with elevations of grinder pumps used in calculations.	Pipeline Design Manual - 2008	Page 25.3.
	39	<b>PRESSURE SEWER.</b> Provide Calculations for the selection of the on-site pump type and model and sizing of the pressure sewer / force main if applicable.	DS Code	
<input checked="" type="checkbox"/>	40	<b>PERMIT RANGE REQUEST.</b> (Applicable ONLY for 'DR' type DRP plans with service connection and/or abandonment work performed under the 'DR' type DRP plan.) First time requests for permit numbers must be submitted on the REQUEST FOR RANGE OF CONNECTION PERMIT NUMBERS form ('DR' type DRP project Applicant Owned Properties only). <b>Ensure the type and number of required connections on the form matches to the plan. Ensure the correct project number is on the form.</b> <b>NOTE:</b> a separate Long Form Permit form must be submitted for each service connection(s) to any property not owned by the 'DR' type DRP project Applicant. Contact Permit Services Unit with questions.	DS Code	
	41	<b>NON-APPLICANT PROPERTY SERVICE CONNECTION(S).</b> Need long-form permit (LFP) application, location form, and payment for any Non-Applicant Property Service Connection(s) abutting the proposed mainline extension. An abutting 'non-applicant' property is defined as a property belonging to owners other than 'DR' type DRP project applicant, which abut the proposed main. The 'DR' type DRP project applicant can not use or request a permit number under the Permit Range Request form for these non-applicant properties. Payment for the Abutting Non-Applicant Property Service Connection(s) is required (cash/check, deferred payment option, 'DR' type DRP project Applicant Payment Voucher).	DR Checklist	
	42	<b>ABUTTING PROPERTY OWNERS LIST.</b> Provide a list of all existing property owner names and their complete addresses for properties abutting planned construction of 'DR' type DRP relocation project. Required for notification of proposed 'DR' type DRP relocation project.	DS Code	
	43	<b>PLAN VIEWS - GENERAL.</b> Approval date and number (SCD) shown for developer's sediment control in General Notes.	DR Checklist	
<input checked="" type="checkbox"/>	44	<b>GENERAL NOTES and 'DR' type DRP NOTES.</b> Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	45	<b>JOB TITLE BLOCK.</b> 1st line - election district, 2nd line – project description, 3rd line – street names, 4th line – subdivision name. Refer to WSSC DR Base Template (WSSC-DRP.dwt)	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	46	<b>VICINITY MAP.</b> 1-inch = 2000 FT scale. Show layout of streets clearly sufficient for contractor's access; show locator map, current ADC map page and grid number. (Indicate job number on map). Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	47	<b>DR PROJECT NUMBER.</b> Provide the Project Number (e.g. DR1234B02) often referred to as the DR or job number on all plan sheets. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	

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	48	<b>TOWN NOTIFICATION.</b> Provide details of town notification. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	49	<b>AS-BUILT DATA.</b> Provide As-Built data as appropriate. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	50	<b>DRAWING INDEX.</b> Provide drawing index. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	51	<b>WSSC 200 FOOT SHEET NUMBERS.</b> Provide all WSSC 200 Foot Sheet Numbers. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	52	<b>GRAPHIC SCALES.</b> Provide Graphic Scales on all sheets. Plan: horizontal 1-inch = 30 feet (preferred) or 1-inch = 50 feet. Profile: 1-inch = 10 feet (vertical) and 1-inch = 100 feet (horizontal). Profiles must be drawn in same direction as plan view. The use of the following plan and profile scales is acceptable in some cases where the level of detail on the plan would be difficult to read at the scales listed above: Plan: 1-inch = 20 feet (horizontal). Profile: 1" = 5' (vertical) and 1" = 50 feet (horizontal). Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Page G-1.
<input checked="" type="checkbox"/>	53	<b>NORTH ARROW WITH DATUM.</b> The north arrow (generally pointing to top of sheets) with required MD State Plane horizontal datum (NAD 83/91) and vertical datum (NGVD 1929) survey reference shown on each plan view. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Appendix D-1
<input checked="" type="checkbox"/>	54	<b>ENGINEERING FIRM BLOCK.</b> List contact name and contact email address. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	55	<b>APPLICANT/DEVELOPER NAME BLOCK.</b> List contact name and contact email address. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	56	<b>MINI-BASIN and DRAINAGE BASIN.</b> Provide drainage basin name (over title block) and mini-basin number(s). Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	57	<b>SERVICE CATEGORY.</b> Provide Service Categories. Refer to WSSC DR Base Template (WSSC-DRP.dwt)..	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	58	<b>STREET NAMES.</b> Show on EACH sheet (plan and profile). Include SHA Route No. Add notation (Private Street) to private street name label. Note: All street names must MATCH to Address Assignment/Verification Documentation approved by MNCPPC.	DR Checklist	
<input checked="" type="checkbox"/>	59	<b>SITE PROPERTY - DESCRIPTION.</b> Show property description - lot and parcel numbers and block numbers on each sheet.	DR Checklist	
<input checked="" type="checkbox"/>	60	<b>MISS UTILITY NOTE.</b> Provide Miss Utility Note. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	61	<b>PROPERTY OWNER INFORMATION.</b> Show property owner(s) names and addresses along improved roads and outfalls. Show existing houses. Show on each plan view.	DR Checklist	
	62	<b>PERMIT NUMBERS.</b> Show permit numbers on proposed buildings, lots or parcels. A table of permit numbers is not acceptable.	DR Checklist	



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<input checked="" type="checkbox"/>	63	<b>LHG and HHG.</b> Provide the LHG and HHG on plan. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	64	<b>P.E. SEAL and CERTIFICATION STATEMENT.</b> A Professional Engineer registered in the State of Maryland seal and Professional Certification Statement on all sheets. A P.E. digital signature is not allowed at this time. Refer to Applicant Guide.	Pipeline Design Manual - 2008	Page G-1.
	65	<b>PROPERTY LINES.</b> Show all property lines.	DR Checklist	
	66	<b>PUE.</b> Show the location of PUE's on plans and/or dry utility info.	DR Checklist	
	67	<b>PLAN SHEET SIZE.</b> Must be 22" by 34". Use for proposed project drawings. NOTE: Plans must be uploaded same orientation as WSSC DR Base Template (no sideways plans). Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
<input checked="" type="checkbox"/>	68	<b>GENERAL NOTES.</b> Provide in the General notes - Backflow Containment Device Note. Provide the following Backflow Containment Device Note on the plan. --- All buildings shall have a backflow containment device installed on the OUTLET side of the water meter, prior to any water uses within the premises, as cited in Section 502.3 of the WSSC Plumbing & Fuel Gas Code. Backflow preventers shall be maintained by the owner as cited in Section 102.3.9.) --- Refer to WSSC dr Base Template (WSSC-DRP.dwt).	WSSC Plumbing and Fuel Gas Code	
	69	<b>GENERAL NOTES.</b> Provide in the General notes - Water pipe type or class; criteria; options. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages W-2.1, W-2.2 & W-4.1.
	70	<b>GENERAL NOTES.</b> Provide in the General notes - Sewer pipe type or class; options; exceptions. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages S-3.1, S-3.2 & S-3.3.
	71	<b>GENERAL NOTES.</b> Provide in the General notes - WHC; size. Outside meters and sizes noted, if required. Current minimum sizes for residential properties are: 1-1/2-inch. Std sizes. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages W-25.1 thru W-25.7.
	72	<b>GENERAL NOTES.</b> Provide in the General notes - SHC; size. Current minimum gravity SHC size for residential properties is: 4-inch. Std sizes. SHC connected to a sewer main with a slope of 1% or less shall have a T-Wye fitting at the main line connection. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages S-27.1 ad S-27.2.
	73	<b>GENERAL NOTES.</b> Special service connection notes: Reference service connections and special materials or details that apply for each unusual WHC or SHC.	DR Checklist	
	74	<b>GENERAL NOTES.</b> Provide in the General notes - Rural Paving Note. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008 WSSC Standard Details	Page W-25.5
	75	<b>GENERAL NOTES.</b> Provide in General notes - All Ductile Iron water mains and sewer mains to be minimum class 54 ductile iron pipe. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages W-4.1 and S-2.1.

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	76	<b>GENERAL NOTES.</b> Provide in General notes - All Ductile Iron water mains and sewer mains to be polyethylene encased in accordance with AWWA C105, Method "A". Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Page C-28.1, W-2.1 and W-3.1
	77	<b>GENERAL NOTES.</b> Provide in General notes - All Ductile Iron sewer pipes to be lined following WSSC specifications. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Page S-3.1.
	78	<b>GENERAL NOTES.</b> Provide in General notes - Sediment Control Notes. 1) Standard note when county-approved Sediment Control Plan is required. (All utility installation must be in conformance with the conditions of the Soil Conservation District/ County/ MDE approved sediment control Plan #_____, approval date_____, and with all erosion and sediment control measures contained within this plan. The applicant is required to notify the WSSC sediment control inspector of any changes and modifications to the SCD/ County/ MDE approved sediment control plans). Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages C-8.1 and C-8.2.
	79	<b>GENERAL NOTES.</b> Provide in General notes - Sediment Control Notes - Standard note for plans not requiring county-approved plans. (Approval by the sediment control inspector is required upon completion of the installation of perimeter erosion and sediment controls before proceeding with any other land disturbance, grading or construction). Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages C-8.1 and C-8.2.
	80	<b>GENERAL NOTES.</b> Provide in General notes - Sediment Control Notes - Additional notes for areas of existing paving: (Roadway must be kept broom swept at all times.) Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages C-8.1 and C-8.2.
	81	<b>GENERAL NOTES.</b> Provide in General notes - WHC curb stop location specified where not on property line. WHC and SHC termination location must be specified if either termination is not on the property line or if termination does not meet standard (on the property line or the WSSC right of way line, whichever is closer to the pipeline). Also justification for the non-standard setting must be included. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages W-25.1 thru W-25.8.
	82	<b>GENERAL NOTES.</b> Provide in General notes - Include pressure reducing valve/booster pump note from the WSSC project reviewer, if required. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	B2k - Plan Views - General
	83	<b>GENERAL NOTES.</b> Provide in General notes - Notification required when construction is within town or city limits. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	84	<b>GENERAL NOTES.</b> Provide in General notes Pressure sewer service connections with lot # note. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	85	<b>GENERAL NOTES.</b> Additional special SHC connection notes: Grinder Pump required for lots; Ejector pump required for lots (or service available to first floor, etc.) Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	86	<b>GENERAL NOTES.</b> Special design conditions (deep manholes, C900 or profile pipe, etc) if applicable	WSSC Base Sheet Template	



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	87	<b>DR NOTES.</b> Provide DR note. Notify the WSSC contract manager at (301) 206-XXXX* and sediment control specialist at (301) 206-8077, a minimum of 72 hours in advance, to coordinate a preconstruction meeting prior to commencement of the work. The utility sediment control permit will be issued to the applicant or his or her contractor at this meeting. XXXX* should be replaced with the appropriate extension: Southern Zone – 7316 Western Zone – 7339 Northern Zone – 7363 Central Zone – 4308 Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	88	<b>DR NOTES.</b> Provide DR note - All work performed under this contract shall be done in accordance with approved drawings and specifications as defined in the Developer Relocation Process (DRP) Permit. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	89	<b>DR NOTES.</b> Provide DR note - All work to be performed by the applicant's contractor under the supervision and inspection of the Systems Inspection Group at no cost to WSSC. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	90	<b>DR NOTES.</b> Provide DR note - The applicant is to provide the Systems Inspection Group's field office 48 hour notice in the form of a written request if the contractor will be utilizing overtime hours. Overtime inspection will be billed at the prevailing WSSC hourly overtime rate. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	91	<b>DR NOTES.</b> Provide DR note - Applicant will provide all materials and material certifications for this contract in accordance with the approved drawings and specifications. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	92	<b>DR NOTES.</b> Provide DR note - The applicant will be required to provide all controls and stakeout associated with this construction. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	93	<b>DR NOTES.</b> Provide DR note - The applicant is to provide the Systems Inspection Group's field office two week notice after base paving and two weeks notice prior to final paving for inspection of structures and appurtenances. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	94	<b>DR NOTES.</b> Provide DR note - Excluding DRP pipe sizing and materials, WSSC takes no responsibility for design errors and/or omissions. WSSC's approval/permit acceptance does not constitute a warranty nor does it release the applicant from responsibility for the design, as well as any deficiency which may subsequently be found. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	95	<b>DR NOTES.</b> WSSC takes no responsibility for the accuracy of "as-built" information provided by WSSC or any deviations from design plans of existing pipelines. The Designer may use this information as they desire but is responsible for determining if any changes have been made to the original design of the existing pipeline, performing test pits and field surveys to verify if they plan to utilize this information, and for adjusting their design accordingly. WSSC does not provide any warranty or any assurances that any information provide is accurate and/or up to date.	DSC Code	
	96	<b>DEPENDENCY NOTE.</b> Provide Dependency Note on plan, if applicable. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	Pipeline Design Manual - 2008	Pages W-9.2 and S-5.4.
	97	<b>SUPERSEDED NOTE.</b> Provide a Superseded Note on plan when submitting a request for re-approval of a previously approved plan. Refer to WSSC DR Base Template (WSSC-DRP.dwt).	WSSC Base Sheet Template	
	98	<b>EXISTING FACILITIES.</b> Paving (Indicate type).	DR Checklist	
	99	<b>EXISTING FACILITIES.</b> Water (Indicate plan number under which built). Indicate type of existing pipe, if PCCP, indicate (Lock, Joint, Number and Type).	Pipeline Design Manual - 2008	Page W-9.3.
	100	<b>EXISTING FACILITIES.</b> Sewer (Indicate plan number under which built). Indicate type of existing pipe.	Pipeline Design Manual - 2008	Page S-5.3.
	101	<b>EXISTING FACILITIES.</b> Provide Type of existing manhole. (Indicate brick or precast)	Pipeline Design Manual - 2008	Page S-12.1.
	102	<b>EXISTING FACILITIES.</b> Research WSSC files and contact utility companies for telephone conduit, electric conduit, gas companies and any other utilities. Support utility plans must be dated within 6 months of plan approval.	Pipeline Design Manual - 2008	Page G-1.
	103	<b>EXISTING FACILITIES.</b> Indicate all proposed construction within/adjacent to site (i.e., proposed utilities, paving limits, structures, etc.).	Pipeline Design Manual - 2008	Page G-2.
	104	<b>EXISTING FACILITIES.</b> Show on plan all existing locations of water / sewer mains and service connections from field survey, WSSC As-builts and plumbing connection records.	DR Checklist	
	105	<b>EXISTING FACILITIES.</b> For Ductile Iron Water Pipe with bonded or special exterior coatings – add note to plans.	Pipeline Design Manual - 2008	Page W-9.3.
	106	<b>EXISTING FACILITIES.</b> Show all existing Test Stations in plan with corresponding No's.	Pipeline Design Manual - 2008	Page C-28.2.
	107	<b>EXISTING FACILITIES.</b> Show existing wells, septic tanks/drainage fields.	DR Checklist	
	108	<b>EXISTING FACILITIES.</b> Provide field-shot pipe/structure locations in vicinity of proposed water and/or sewer.	DR Checklist	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	109	<b>EXISTING FACILITIES.</b> Provide Notes to connect to existing water and/or sewer. Pages W-9.1 and S-5.2.	Pipeline Design Manual - 2008	Pages W-9.1 and S-5.2.
	110	<b>EXISTING FACILITIES.</b> Provide Notes for abandoning existing water and/or sewer.	Pipeline Design Manual - 2008 WSSC Specs.	Page C-5.1.
	111	<b>WATERWAYS AND STREAMS.</b> Indicate drainage area of all stream crossings (or where construction is proposed in flood plain, indicate one-hundred (100) year floodplain with elevations on major stream crossings). Identify stream. Add notes for dewatering, temporary access, stream diversion, etc. and include Standard Detail Numbers.	Pipeline Design Manual - 2008	Pages C-8.2, C-8.4, C-8.10 & C-8.11.
	112	<b>WATERWAYS AND STREAMS.</b> For any water body within one-hundred (100) feet of construction area, indicate wetland boundaries and one-hundred (100) year flood plain with elevations.	Pipeline Design Manual - 2008	Page C-8.2.
	113	<b>WATERWAYS AND STREAMS.</b> For all existing or proposed stream/ditch crossings, show top of bank, bottom of bank, field inverts of stream/ditch on Profile.	Pipeline Design Manual - 2008	Page W-11.1 and S-8.3
	114	<b>WATERWAYS AND STREAMS.</b> Ungrouted riprap shown on plan view with proper symbols and notes.	Standard Detail SC/3.0 Pipeline Design Manual - 2008	Page C-9.4.
	115	<b>RESTORATION.</b> Restoration Schedule completed.	DR Specs	Sections 02315 III.2.B and 02920, 1.2.A.
	116	<b>ENVIRONMENTAL.</b> All existing Sediment Control Devices (SCD) shown on plans.	Pipeline Design Manual - 2008	Page C-8.4.
	117	<b>ENVIRONMENTAL.</b> No water and sewer alignments within fifty (50) feet of sediment control traps (draining ten (10) acres or more), basins or water retention ponds. Alignments within fifty (50) feet shall be approved by WSSC on a case by case basis.	DR Checklist	
	118	<b>ENVIRONMENTAL.</b> Approval date and number (SCD) shown for developer's sediment control in General Notes.	Pipeline Design Manual - 2008	Page C-8.4.
	119	<b>ENVIRONMENTAL.</b> Show all sediment controls to be installed by contractor and reference by symbols (SCE, SF, SSF, etc.)	Pipeline Design Manual - 2008	Pages C-8.4 thru C-8.12.
	120	<b>ENVIRONMENTAL.</b> Show 100 year flood plain delineation on major stream crossings. Identify stream (if a named tributary).	DR Checklist	
	121	<b>ENVIRONMENTAL.</b> Show existing contours at five (5) foot or less intervals, in outfalls and flood plains, for a distance of one hundred (100) feet either side of pipe centerline.	DR Checklist	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	122	<b>ENVIRONMENTAL.</b> Show drainage area at stream crossings or where construction is shown in flood plain.	Pipeline Design Manual - 2008	Page C-8.4
	123	<b>ENVIRONMENTAL.</b> Show all wooded area (delineation).	DR Checklist	
	124	<b>ENVIRONMENTAL.</b> Show individual trees within fifty (50) feet of work area limits. Label size & type.	Pipeline Design Manual - 2008	Page C-8.12.
	125	<b>ENVIRONMENTAL.</b> Show wetland boundaries and twenty-five (25) foot buffer delineation. One hundred (100) foot buffer where applicable.	Pipeline Design Manual - 2008	Page C-23.1.
	126	<b>ENVIRONMENTAL.</b> Show Chesapeake Bay Critical Areas boundaries (delineation).	DR Checklist	
	127	<b>ENVIRONMENTAL.</b> Show "Tree Save Areas" in vicinity of water and sewer lines in developments.	Pipeline Design Manual - 2008	Page C-8.12.
	128	<b>ENVIRONMENTAL.</b> Show stabilized construction entrance.	Pipeline Design Manual - 2008	Pages C-8.8 & C-8.9.
	129	<b>ENVIRONMENTAL.</b> Add notes for dewatering, temporary access, stream diversion, etc.	Pipeline Design Manual - 2008	Pages C-8.10 & C-8.11.
	130	<b>ENVIRONMENTAL.</b> Include reference to Drawing SC-1 in drawing index on Sheet 1.	Pipeline Design Manual - 2008	Page C-8.1.
	131	<b>PERMITS - OTHER AGENCIES.</b> All agency permit conditions that come out from their review of W&S plans, must be submitted to WSSC at the earliest opportunity.	DR Checklist	
	132	<b>PERMITS - OTHER AGENCIES.</b> Railroad. Show location of water and/or sewer crossing railroad right of way with dimension from milepost marker, stationing, etc.	DR Checklist	
	133	<b>PERMITS - OTHER AGENCIES.</b> Railroad - Display Pipe Crossing Data.	DR Checklist	
	134	<b>PERMITS - OTHER AGENCIES.</b> Railroad - Show non-standard details for method of installation.	DR Checklist	
	135	<b>PERMITS - OTHER AGENCIES.</b> Railroad - . Special note for railroad access crossing.	DR Checklist	
	136	<b>PERMITS - OTHER AGENCIES.</b> MNCP&PC - Show required work limits/working space.	Pipeline Design Manual - 2008	Page C-2.4.
	137	<b>PERMITS - OTHER AGENCIES.</b> Sediment Control sticker issued.	DR Checklist	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	138	<b>ALIGNMENT.</b> Minimum separation of ten (10) feet from existing or proposed sewer (OD to OD).	Pipeline Design Manual - 2008	Pages W-8.1 & S-5.1.
	139	<b>ALIGNMENT.</b> Minimum separation of five (5) feet from existing or proposed storm drains, inlets, poles, gas mains, conduits, etc.	Pipeline Design Manual - 2008	Pages W-8.1 & S-5.1.
	140	<b>CLEARANCE.</b> All mains to be designed with a minimum of fifteen (15) feet clearance (for 12-inch and smaller diameter pipelines) and twenty five (25) feet clearance (for larger than 12-inch diameter pipelines) from proposed or existing buildings and beyond the imaginary 1:1 slope from the bottom of the foundation of the building/dwelling to the edge of the trench.	Pipeline Design Manual - 2008	Page C-3.2
	141	<b>CLEARANCE.</b> Required clearances between proposed water and/or sewer systems and other proposed/existing features (buildings, structures, curbs, streams, etc.) have not been provided.	DR Checklist	
	142	<b>TUNNEL SOIL.</b> Investigation and Design: Preliminary tunnel submittal. (Natural scale tunnel profiles with details and results of soils investigations).	Pipeline Design Manual - 2008	Pages C-20.1, C-25.1 thru C-25.3, C-26.1 thru Page C-26.4.
	143	<b>TUNNEL SOIL.</b> Investigation and Design: WSSC tunnel meeting. (If necessary) If a tunnel meeting is conducted, utilize findings in subsequent design work.	DR Checklist	
	144	<b>TUNNEL SOIL.</b> Investigation and Design: Tunnel Geotechnical Report required.(___yes ___no).	Pipeline Design Manual - 2008	Pages C-26.4 and C-26.5.
	145	<b>TUNNEL SOIL.</b> Investigation and Design: Evaluation of pipe failure and settlement.	Pipeline Design Manual - 2008	Page C-26.9.
	146	<b>TUNNEL SOIL.</b> Investigation and Design: Water table and dewatering addressed (if necessary).	Pipeline Design Manual - 2008	Page C-26.17.
	147	<b>TUNNEL SOIL.</b> Investigation and Design: Environmental concerns addressed (blasting, utilities, water quality, etc.).	DR Checklist	
	148	<b>TUNNEL SOIL.</b> Investigation and Design: Comply with MSHA and/or railroad authority requirements.	Pipeline Design Manual - 2008	Pages C-25.1 thru C-25.3.
	149	<b>TUNNEL SOIL.</b> Investigation and Design: Sufficient construction access.	Pipeline Design Manual - 2008	Pages C-2.4 & C-26.16.
	150	<b>TUNNEL SOIL.</b> Investigation and Design: Tunnel Access Manhole for tunnels/casings greater than twenty (20) feet deep.	Pipeline Design Manual - 2008	Page 26.17.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	151	<b>TUNNEL SOIL.</b> Investigation and Design: Alternate Design considered, options provided.	Pipeline Design Manual - 2008	Page C-19.1, C-25.1 thru C-25.3.
	152	<b>TUNNEL/BORE-JACK.</b> Computations submitted to support the design, as required (non-standard items may require computations).	Pipeline Design Manual - 2008	Page C-26.1 and appendix F.
	153	<b>TUNNEL/BORE-JACK.</b> Observation wells as required at tunnel borings.	Pipeline Design Manual - 2008	Page C-26.1 and appendix F.
	154	<b>TUNNEL/BORE-JACK.</b> Final Tunnel Geotechnical Report, if required.	Pipeline Design Manual - 2008	Pages C-26.4 & C-26.5.
	155	<b>TUNNEL/BORE-JACK.</b> Permit from issuing agency in conformance with design.	Pipeline Design Manual - 2008	Page C-25.1.
	156	<b>TUNNEL/BORE-JACK.</b> Concrete encasement / arches and cradles shown on plan and profile.	Pipeline Design Manual - 2008	Pages C-13.1 & C-13.2.
	157	<b>TUNNEL/BORE-JACK.</b> Settlement markers required (Min. of two each side of tunnel centerline).	Pipeline Design Manual - 2008 (Standard Detail M/7.0 and M/7.1)	Page C-26.18.
	158	<b>TUNNEL/BORE-JACK.</b> Special construction requirements for work performed in the vicinity of existing water/sewer mains.	Pipeline Design Manual - 2008	Page C-3.7.
	159	<b>TUNNEL/BORE-JACK.</b> Corrosion Control measures incorporated.	Pipeline Design Manual - 2008	Page C-28.1.
	160	<b>TUNNEL/BORE-JACK.</b> Corrosion Control : Test station numbers provided by WSSC. Total number of test stations indicated on Sheet 1.	Pipeline Design Manual - 2008	Page C-28.2.
	161	<b>TUNNEL/BORE-JACK.</b> Corrosion Control: Type of existing corrosion control measures indicated on plan at connections to existing pipe.	Pipeline Design Manual - 2008	Page C-28.6 and W-9.3.
	162	<b>TUNNEL/BORE-JACK.</b> Civil Engineering Support Unit approval obtained.	DR Checklist	
	163	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Executed (Date: _____).	Pipeline Design Manual - 2008	Page C-2.1 & Appendix D



Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	164	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Property shown/described.	Pipeline Design Manual - 2008	Page C-2.1 & Appendix D
	165	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Property owner's name shown.	Pipeline Design Manual - 2008	Page C-2.1 & Appendix D
	166	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Special commitments.	Pipeline Design Manual - 2008	Page C-2.1 & Appendix D
	167	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Offset in right of way, 15-inch sewer and larger (for future relief sewer) - unless difficult and Planning Group approves otherwise.	Pipeline Design Manual - 2008	Page C 2.3.
	168	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Show and label existing right of way with liber/folio and width.	Pipeline Design Manual - 2008	Page C-2.1 & Appendix D
	169	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Special considerations for existing PCCP water mains.	Pipeline Design Manual - 2008	Page C-2.1.
	170	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Provide Additional Easement (right of way) to WSSC for deep sewers.	Pipeline Design Manual - 2008	Page C-2.2.
	171	<b>WSSC EASEMENTS AND CONSTRUCTION STRIPS.</b> Right of way required shown in right of way status box (Below signature block).	Pipeline Design Manual - 2008	Page C-2.1 & Appendix D
	172	<b>SURVEY INFORMATION.</b> Curve data required for 24-inch and larger mains.	Pipeline Design Manual - 2008	Page C-1.2.
	173	<b>SURVEY INFORMATION.</b> Required bench marks shown minimum 3 per sheet. (Iron pipes, manholes and fire hydrants not acceptable).	Pipeline Design Manual - 2008	Page C-1.1 & Appendix D
<input checked="" type="checkbox"/>	174	<b>SURVEY INFORMATION.</b> Grid coordinates (3 per page). Show at least three (3) coordinates grid tic marks corresponding to MD State Plane horizontal datum (NAD 83/91). Verify orientation with north arrow and all coordinate numbers with each other. Ensure the coordinate numbers meet the following minimum criteria: East – West coordinates are between 1,160,000 - 1,407,000 North - South coordinates are between 316,000 - 616,000	DR Checklist	
	175	<b>SURVEY INFORMATION.</b> Show distance to nearest existing fire hydrant for testing.	Pipeline Design Manual - 2008	Page W-24.1.
	176	<b>SURVEY INFORMATION.</b> Existing valves necessary for shutdown are located.	Pipeline Design Manual - 2008	Page W-18.2.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	177	<b>THRUST RESTRAINT.</b> Provide Thrust Restraint Schedule, Form "A".	Pipeline Design Manual - 2008	Page C-20.1 and Page C-20-Form A-1.
	178	<b>THRUST RESTRAINT.</b> Provide Thrust Restraint Calculations.	Pipeline Design Manual - 2008	Page C-20.2.
	179	<b>CORROSION CONTROL.</b> Provide a complete Corrosion Survey Checklist.	Pipeline Design Manual - 2008	Pages C-20.1 and C-28.10.
	180	<b>CORROSION CONTROL.</b> Provide Corrosion Documentation, Form "B".	Pipeline Design Manual - 2008	Pages C-20.2 and C-28.11.
	181	<b>CORROSION CONTROL.</b> Provide Corrosion Control plan and specifications.	Pipeline Design Manual - 2008	Page C-28.2.
	182	<b>PLAN VIEWS - WATER.</b> Minimum size 4-inch for mainline water pipelines, minimum size 8-inch with fire hydrants.	Pipeline Design Manual - 2008	Page W-24.2 & Appendix B-5.
	183	<b>PLAN VIEWS - WATER.</b> Proposed pipe sizes indicated on plan.	Pipeline Design Manual - 2008	Pages W-8.2 and W-11.1.
	184	<b>PLAN VIEWS - WATER - ALIGNMENT.</b> Minimum of five (5) feet off centerline or proposed rural type paving or centered in proposed shoulder.	Pipeline Design Manual - 2008	Page W-8.1
	185	<b>PLAN VIEWS - WATER - ALIGNMENT.</b> Curb and gutter section – seven (7) feet off centerline.	Pipeline Design Manual - 2008	Page W-8.1.
	186	<b>PLAN VIEWS - WATER - ALIGNMENT.</b> Minimize specifying bends.	Pipeline Design Manual - 2008	Page W-7.2.
	187	<b>PLAN VIEWS - WATER - ALIGNMENT.</b> Maximum joint deflection not utilized in horizontal and vertical plane simultaneously.	Pipeline Design Manual - 2008	Page W-12.1.
	188	<b>PLAN VIEWS - WATER - ALIGNMENT.</b> Maximum allowable pipe joint deflection has not been exceeded. (Varies by pipe type)	Pipeline Design Manual - 2008	Pages W-12.1 thru W-12.5.
	189	<b>PLAN VIEWS - WATER - FITTINGS.</b> Labeled on plans.	Pipeline Design Manual - 2008	Page W-8.2.
	190	<b>PLAN VIEWS - WATER - FITTINGS.</b> 100 foot stations shown on plans.	Pipeline Design Manual - 2008	Page W-8.2.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	191	<b>PLAN VIEWS - WATER - FITTINGS.</b> Stations at fittings shown on plan for 16" water and larger.	Pipeline Design Manual - 2008	Page W-8.2.
	192	<b>PLAN VIEWS - WATER - VALVES.</b> Provide valves on all small mains off larger mains.	Pipeline Design Manual - 2008	Page W-18.1.
	193	<b>PLAN VIEWS - WATER - VALVES.</b> Valves to be located to provide line shutdown limited to fifty (50) units, or two blocks maximum.	DR Checklist	
	194	<b>PLAN VIEWS - WATER - VALVES.</b> Valve extension required.	Pipeline Design Manual - 2008	Page W-18.2.
	195	<b>PLAN VIEWS - WATER - VALVES.</b> Valve strapped to main (existing and proposed).	Pipeline Design Manual - 2008	Pages W-24.2 and W-18.1.
	196	<b>PLAN VIEWS - WATER - VALVES.</b> Indicate division valves and pressure zone lines where applicable.	Pipeline Design Manual - 2008	Page W-18.1.
	197	<b>PLAN VIEWS - WATER - VALVES.</b> Division valve – open/close valve requirement.	Pipeline Design Manual - 2008	Page W-18.1.
	198	<b>PLAN VIEWS - WATER - VALVES.</b> Double Valves required (6-inch to 12-inch, laterals from 42-inch and up).	Pipeline Design Manual - 2008	Page W-18.1.
	199	<b>PLAN VIEWS - WATER - VALVES.</b> Valves on all fire hydrant leads.	Pipeline Design Manual - 2008	Page W-18.1.
	200	<b>PLAN VIEWS - WATER - TAPPING.</b> For <b>DIP</b> and <b>CIP</b> a Tapping Sleeve and Valve is allowed. For <b>PCCP</b> a Tapping Assembly and Valve (TA&V) is <b><u>not allowed</u></b> for connecting to existing PCCP water mains. Two sections of PCCP will need to be removed and replaced with Ductile Iron Pipe (DIP) Class 54 and polywrapped in order to connect with a Tee. - Show type of existing pipe - Show Lock Joint Number (if PCCP). Provide connection detail. - Ensure proper tap size. - Ensure sufficient room to make tap.	Pipeline Design Manual - 2008	Pages W-7.3, W-7.4. and W-7.5.
	201	<b>PLAN VIEWS - WATER - FIRE HYDRANTS.</b> Fire hydrants to be spaced at a maximum of five hundred (500) feet in single family developments; two hundred fifty (250) to three hundred (300) feet in townhouse developments or industrial/commercial. Generally located on lot lines or consistent with proposed driveways, parking bays, etc.	Pipeline Design Manual - 2008	Pages W-24.1 thru W-24.3.
	202	<b>PLAN VIEWS - WATER - FIRE HYDRANTS.</b> Elbow elevation and fire hydrant lengths shown.	Pipeline Design Manual - 2008	Page W-24.1.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	203	<b>PLAN VIEWS - WATER - FIRE HYDRANTS.</b> Fire Hydrant extensions required. Label correctly (i.e., 8.0' F.H. w/1.5' extension)	Pipeline Design Manual - 2008	Page W-24.1
	204	<b>PLAN VIEWS - WATER - FIRE HYDRANTS.</b> Fire hydrant facing note.	Pipeline Design Manual - 2008	Page W-24.2.
	205	<b>PLAN VIEWS - WATER - FIRE HYDRANTS.</b> Salvage note for valves and fire hydrants. Page C-5.1.	Pipeline Design Manual - 2008	Page C-5.1.
	206	<b>PLAN VIEWS - WATER - SPECIAL STRUCTURES.</b> Blow-off, Air Valve, PRV'S, Thrust Vaults, etc. Pages W-16.1,	Pipeline Design Manual - 2008	Pages W-16.1, W-18.1, W-19.1, W-20.1, W-21.1, W-22.1 and C-27.20.
	207	<b>PLAN VIEWS - WATER - SPECIAL STRUCTURES.</b> Shown on plan and profile (drawn to scale).	DR Checklist	
	208	<b>PLAN VIEWS - WATER - SPECIAL STRUCTURES.</b> Calculations submitted.	DR Checklist	
	209	<b>PLAN VIEWS - WATER - SPECIAL STRUCTURES.</b> Details checked and initialed by Civil Engineering Support Unit.	DR Checklist	
	210	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Pages C-27.1 thru C-27.26	Pipeline Design Manual - 2008	Pages C-27.1 thru C-27.26
	211	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Complete coverage.	Pipeline Design Manual - 2008	Pages C-20-Form A-1 and C-20-Form A-2.
	212	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Special blocking details and/or pipe restraint shown.	Pipeline Design Manual - 2008	Pages C-27.2 and C-27.14.
	213	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Fire hydrants strapped to mains. Do not block FH's or FHT's	Pipeline Design Manual - 2008	Page W-24.2.
	214	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Existing special blocking and restrained joints shown on existing main at connections to existing pipe.	Pipeline Design Manual - 2008	Page W-9.3.
	215	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Existing ground behind plugs/caps (firm bearing for block).	Pipeline Design Manual - 2008	Pages C-27.2 and C-27.25.
	216	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Submit computations to support special blocking design.	Pipeline Design Manual - 2008	Pages C-20.2 and C-27.2.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	217	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> If fitting is in fill, submit computations to assure standard blocking is sufficient.	Pipeline Design Manual - 2008	Page C-27.2.
	218	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Blocking notes, including restrained pipe limits.	DR Checklist	
	219	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> Civil Engineering Support Unit's approval for restrained joint pipe, blocking design for 16" and larger pipe and any other special blocking design. Provide calculations and details for approval.	Pipeline Design Manual - 2008	Pages C-27.1 thru C-27.26.
	220	<b>PLAN VIEWS - WATER - BLOCKING REVIEW.</b> New construction will not interfere with or disturb existing blocking or restrained pipe.	DR Checklist	
	221	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Show Water Service Connection(s) (WHC) to each lot, parcel or building (indicate location of WHC curb stops if Standard location conflicts with sidewalk/curb and gutter; on projects with tertiary streets, extend WHC's to limits of PUE or PIE easement).	Pipeline Design Manual - 2008	Pages W-25.4 and W-25.6.
	222	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Non-standard service connection locations are specified.	DR Checklist	
	223	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Consider future meter vault locations when setting large diameter water service connections.	DR Checklist	
	224	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Permit numbers shown.	Pipeline Design Manual - 2008	Page W-25.1.
	225	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> WHC lowering at storm drains, ditches and other utilities.	Pipeline Design Manual - 2008	Page W-25.5.
	226	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Insulating joints at connections to existing water pipelines.	Pipeline Design Manual - 2008	Page W-25.8.
	227	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> WHC's are not located in same trench with Pressure Sewer House Connections (ten (10) feet minimum horizontal clearance).	Pipeline Design Manual - 2008	Page C-3.1.
	228	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Show outside meter for water service connections when the proposed water service on property will be over 300 feet in length.	DR Checklist	
	229	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Show on plan the WSSC billing account number for each abandonment of existing service connection(s).	DR Checklist	
	230	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Large size connections are labeled with size (i.e. 4" WHC or 6" SHC) on the actual connection line. Connection sizes smaller than the example are usually not labeled, but are indicated in the General Notes.	DR Checklist	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	231	<b>PLAN VIEWS - WATER - WATER SERVICE CONNECTIONS.</b> Show site utility pipe and site utility number in light line weight for all proposed site utility systems associated with the DR type DRP project. • (example: 'FUTURE SITE UTILITY # 00-OS-0000'), Use actual SU # when known instead of zeros. When meter vault is being constructed under the site utility plan – require note: “Meter and vault to be constructed under site utility” (include site utility plan #, if available).	DR Checklist	
	232	<b>PLAN VIEWS - SEWER.</b> Size sewer line and direction of flow indicated on plan (minimum main size is 8-inch).	Pipeline Design Manual - 2008	Page S-5.2 and S-2.1
	233	<b>PLAN VIEWS - SEWER.</b> Compare with profile.	DR Checklist	
	234	<b>PLAN VIEWS - SEWER.</b> Size is consistent with required capacity.	DR Checklist	
	235	<b>PLAN VIEWS - SEWER.</b> Compare with computations, if required.	DR Checklist	
	236	<b>PLAN VIEWS - SEWER.</b> Size and type in General Notes.	Pipeline Design Manual - 2008	Page S-3.1.
	237	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Manholes, located to avoid sidewalks, if possible.	Pipeline Design Manual - 2008	Page S-11.1.
	238	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Locate manholes out of parking areas where possible.	Pipeline Design Manual - 2008	Page S-11.1.
	239	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Manhole geometry, sufficient inside diameter for incoming and outgoing sewer pipelines. Provide worksheet or detail on plan (to scale) if necessary.	Pipeline Design Manual - 2008	Page S-14.1 thru S-14.3. Provide worksheet or detail on plan
	240	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Manhole drop connections labeled on plan.	Pipeline Design Manual - 2008	Page S-16.1.
	241	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Use ductile iron pipe for connections to existing brick manholes.	DR Checklist	
	242	<b>PLAN VIEWS - SEWER - MANHOLES.</b> All proposed manholes are pre-cast unless specified otherwise.	DR Checklist	
	243	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Pipe to manhole connection note for steep grades included in General Notes.	Pipeline Design Manual - 2008	Pages S-14.5 and S-15.3.
	244	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Pipe to manhole connection note for deep manholes included in General Notes.	Pipeline Design Manual - 2008	Page S-18.1.



Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	245	<b>PLAN VIEWS - SEWER - MANHOLES.</b> Manhole rotation note.	Pipeline Design Manual - 2008	Page S-11.1.
	246	<b>PLAN VIEWS - SEWER - SEWER SERVICE CONNECTIONS.</b> SHC to each lot, parcel or building.	Pipeline Design Manual - 2008	Page S-27.2.
	247	<b>PLAN VIEWS - SEWER - SEWER SERVICE CONNECTIONS.</b> Permit numbers shown.	DR Checklist	
	248	<b>PLAN VIEWS - SEWER - SEWER SERVICE CONNECTIONS.</b> Note if normal service not being provided.	DR Checklist	
	249	<b>PLAN VIEWS - SEWER - SEWER SERVICE CONNECTIONS.</b> DHC's shown, (minimum 8 feet deep at property line).	Pipeline Design Manual - 2008	Page S-27.4.
	250	<b>PLAN VIEWS - SEWER - SEWER SERVICE CONNECTIONS.</b> Sewer Service Connection (SHC) easements shown/labeled.	DR Checklist	
	251	<b>PLAN VIEWS - SEWER - SEWER SERVICE CONNECTIONS.</b> Cellar elevations shown on plan. If only first floor service is to be provided, verify adequate cover over SHC within the property. (Existing and proposed houses). If there is no cellar, indicate so on plan.	Pipeline Design Manual - 2008	Page S-27.3.
	252	<b>PLAN VIEWS - SEWER - SEWER SERVICE CONNECTIONS.</b> Sewage flow tabulation chart on plan. For capital-sized sewer pipes (15" sewer and larger) – also show calculations on plan provided by the WSSC Reviewer. (See pages 2-2 & 2-3, "Design Guidelines for Sewerage Facilities", Environmental Health Administration, Department of Health and Mental Hygiene, State of Maryland, 1978 Edition).	DR Checklist	
	253	<b>AVERAGE WASTEWATER FLOW TABLE.</b> Provide information in gallons per day (GPD) table for new sewer service connections. Refer to WSSC DR Base Template (WSSC-DRP.dwt) for table format. Refer to Pipeline Design Manual for flow factors.	WSSC Base Sheet Template	
	254	<b>PLAN VIEWS - SEWER.</b> Hydrogen Sulfide Control Evaluation. (Required for gravity sewers 27" and larger, force mains and pressure sewer grinder pump systems).	Pipeline Design Manual - 2008	Page S-28.1
	255	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Pressure sewer thrust restraint notes.	Pipeline Design Manual - 2008	Page S-25.3.
	256	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Air/vacuum and air release valves provided at high points. Ideally, high points should be avoided.	Pipeline Design Manual - 2008	Pages S-25.3 and S-25.4.
	257	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Flushing connections every four hundred (400) ± feet and at dead ends.	Pipeline Design Manual - 2008	Page S-25.4.
	258	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Locator stations and tracer wire for directionally drilled HDPE pressure sewers.	Pipeline Design Manual - 2008	Page S-25.4.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	259	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - No ninety (90°) degree bends.	Pipeline Design Manual - 2008	Page S-25.5.
	260	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Minimum radius of curvature to be in accordance with design criteria.	Pipeline Design Manual - 2008	Page S-25.5.
	261	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Transition manhole at pressure sewer connection to gravity system.	Pipeline Design Manual - 2008	Page S-25.4
	262	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Verify cellar elevations on drawings are compatible with elevations of grinder pumps used in calculations.	Pipeline Design Manual - 2008	Page 25.3.
	263	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Pipe and manhole protection required for H2S corrosion and odor control downstream of discharge into gravity system. (___yes ___no).	Pipeline Design Manual - 2008	Pages S-25.5 and S-25.6.
	264	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - Specify Grinder Pump Manufacturer and Model No. (compare w/computations).	DR Checklist	
	265	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) Calculations submitted to WSSC Environmental Group and WSSC Civil Engineering Support Unit.	DR Checklist	
	266	<b>PLAN VIEWS - SEWER - PRESSURE SEWERS.</b> (Grinder Pump Systems) - WHC's are not located in same trench with Pressure Sewer House Connections (ten (10) feet minimum horizontal clearance).	Pipeline Design Manual - 2008	Page S-25.5.
	267	<b>PROFILES - GENERAL.</b> Sizes indicated on plan & profile consistent with the approved sketch of the hydraulic review (Phase 1 Letter of Findings).	Pipeline Design Manual - 2008	Pages W-11, S-8.3 & S-8.4.
	268	<b>PROFILES - GENERAL.</b> Size/class in General Notes.	Pipeline Design Manual - 2008	Page W-4.1 and W-8.2.
	269	<b>PROFILES - GENERAL.</b> Class of pipe consistent with depth.	Pipeline Design Manual - 2008	Page W-4.1 and S-3.3.
	270	<b>PROFILES - GENERAL.</b> Show vertical and horizontal scale.	DR Checklist	
	271	<b>PROFILES - GENERAL.</b> Indicate approved grade by agency and date (or finished grade from development plan). Establish street grades if required.	Pipeline Design Manual - 2008	Pages W-11.2, W-11.3, S-8.4 & S-8.5.
	272	<b>PROFILES - GENERAL.</b> Sufficient plan and profile shown for future extensions. (Minimum 200').	Pipeline Design Manual - 2008	Pages W-11.3 & S-8.5.
	273	<b>PROFILES - GENERAL.</b> Where parallel, show both water and sewer on same profile.	DR Checklist	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	274	<b>PROFILES - GENERAL.</b> Show in profile, existing water/sewer mains that run parallel to proposed water/sewer.	DR Checklist	
	275	<b>PROFILES - GENERAL.</b> Cellar elevations shown on profile. If only first floor service is to be provided, verify adequate cover over SHC within the property. (Existing and proposed houses). If there is no cellar, indicate so on plan.	Pipeline Design Manual - 2008	Page S-27.3.
	276	<b>PROFILES - GENERAL.</b> Notes to connect to existing water and/or sewer.	Pipeline Design Manual - 2008	Pages W-9.1 and S-5.2.
	277	<b>PROFILES - GENERAL.</b> Notes for abandoning existing water and/or sewer.	Pipeline Design Manual - 2008	Page C-5.1.
	278	<b>PROFILES - GENERAL.</b> Show profiles of existing water and sewer to be abandoned under this contract as required.	Pipeline Design Manual - 2008	Page C-5.1.
	279	<b>PROFILES - GENERAL.</b> Show in profile all existing locations of water and sewer and house service connections.	DR Checklist	
	280	<b>PROFILES - GENERAL.</b> Minimum one (1) foot vertical clearance of existing or proposed utilities at crossings (water, sewer, WHC, SHC, storm drains, gas, electric, telephone, etc.). Verify required clearance with all utilities. (Some require 2' vert. clearance).	Pipeline Design Manual - 2008	Page C-3.1.
	281	<b>PROFILES - GENERAL.</b> Provide field-shot pipe/structure locations in vicinity of proposed water and/or sewer.	DR Checklist	
	282	<b>PROFILES - GENERAL.</b> For all existing or proposed stream/ditch crossings, show top of bank, bottom of bank, centerline and field inverts of stream/ditch on Profile.	Pipeline Design Manual - 2008	Page W-11.1 and S-8.3.
	283	<b>PROFILES - GENERAL.</b> Maintain minimum cover under streams for water and sewer pipelines.	Pipeline Design Manual - 2008	Pages W-11.1, S-8.3 and C-9.3.
	284	<b>PROFILES - GENERAL.</b> Ungrouted riprap shown on profile with proper symbols and notes. (Standard Detail SC/3.0).	DR Checklist	
	285	<b>PROFILES - GENERAL.</b> Encasement shown on plan and profile.	Pipeline Design Manual - 2008	Page C-13.1.
	286	<b>PROFILES - GENERAL.</b> Buoyancies of pipelines.	Pipeline Design Manual - 2008	Page C-4.1.
	287	<b>PROFILES - GENERAL.</b> Erosion check (ground over pipe 20% or greater). Every fifteen (15) feet, show number required on profile (Standard Detail M/3.0)	Pipeline Design Manual - 2008	Page C-7.1.
	288	<b>PROFILES - GENERAL.</b> Concrete anchors for pipes.	Pipeline Design Manual - 2008	Page C-14.1.

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	289	<b>PROFILES - GENERAL.</b> Larger than 24-inch, special design, calculations and special detail required.	Pipeline Design Manual - 2008	Page C-14.1.
	290	<b>PROFILES - GENERAL.</b> 24-inch and smaller, anchors per Standard Detail M/4.0 shown on the drawings, ductile iron or AWWA C900 PVC noted on plan and profile.	Pipeline Design Manual - 2008	Page C-14.1.
	291	<b>PROFILES - WATER.</b> Water sizes indicated on profile with bold text style.	DR Checklist	
	292	<b>PROFILES - WATER.</b> Minimum cover over the top of the pipe is four (4) feet from the lowest profile grade or ground line. Future conditions should be considered at this time.	Pipeline Design Manual - 2008	Pages W-11.1 and W-11.2.
	293	<b>PROFILES - WATER.</b> Water mains and structures shown at proper depth and verified with WSSC Standard Details	Pipeline Design Manual - 2008	Page W-11.2.
	294	<b>PROFILES - WATER.</b> Stations in correct sequence.	DR Checklist	
	295	<b>PROFILES - WATER.</b> Compare water profile length with corresponding plan view.	Pipeline Design Manual - 2008	Page W-8.2.
	296	<b>PROFILES - WATER.</b> Fittings at intersections same elevation.	DR Checklist	
	297	<b>PROFILES - WATER.</b> Fire hydrant lengths correct-submit tabulations.	Pipeline Design Manual - 2008	Pages W-24.1 & W-24.2.
	298	<b>PROFILES - WATER.</b> Indicate restrained pipe on profile.	Pipeline Design Manual - 2008	Page C-27.13.
	299	<b>PROFILES - WATER.</b> Fittings labeled on profiles.	Pipeline Design Manual - 2008	Page W-11.1.
	300	<b>PROFILES - WATER.</b> Valves shall be placed on main where slope will allow valve to be operable.	Pipeline Design Manual - 2008	Page W-18.3.
	301	<b>PROFILES - WATER.</b> Where water main is below or parallel to sewer, SHC or septic field, provide proper protection of water supply.	Pipeline Design Manual - 2008	Pages C-3.1 thru C-3.7 and C-13.1 thru C-13.2.
	302	<b>PROFILES - SEWER.</b> Sewer sizes indicated on profile with bold text style.	DR Checklist	
	303	<b>PROFILES - SEWER.</b> Sewers designed at normal depth, eight (8) to ten (10) feet, unless otherwise required by design.	Pipeline Design Manual - 2008	Page S-8.1.
	304	<b>PROFILES - SEWER.</b> Compare sewer profile length with corresponding plan view.	DR Checklist	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	305	<b>PROFILES - SEWER.</b> Existing, proposed or future grade lines shown, where required.	Pipeline Design Manual - 2008	Page S-8.4.
	306	<b>PROFILES - SEWER.</b> Sewer pipelines at stream crossings - DIP for smaller than 21-inch sewer pipelines and DIP or RCP for 21-inch and larger sewer pipelines with twelve (12) foot lengths.	Pipeline Design Manual - 2008	Page S-8.2.
	307	<b>PROFILES - SEWER.</b> Sewer pipelines at stream crossings - For RCP, label in profile and include in the general notes the pipe class required and minimum lay length of twelve (12) feet.	Pipeline Design Manual - 2008	Page S-8.2.
	308	<b>PROFILES - SEWER - SEWER GRADES / SLOPES.</b> Note: slopes to be calculated by subtracting the manhole inside diameters from the center to center distance.	Pipeline Design Manual - 2008	Page S-15.1.
	309	<b>PROFILES - SEWER - SEWER GRADES / SLOPES.</b> Sewer grades correct, submit tabulations if required.	DR Checklist	
	310	<b>PROFILES - SEWER - SEWER GRADES / SLOPES.</b> Verify minimum slope requirements on Table 11, Page S-9.1 .0.60% minimum grade for 8-inch	Pipeline Design Manual - 2008	Page S-9.1.
	311	<b>PROFILES - SEWER - SEWER GRADES / SLOPES.</b> Minimum grade 1.00% for terminal sewers	Pipeline Design Manual - 2008	Page S-9.1.
	312	<b>PROFILES - SEWER - SEWER GRADES / SLOPES.</b> Sewer pipeline on steep grades, ten (10%) percent and greater. Ductile Iron Pipe or PVC AWWA C-900 for 12-INCH and smaller and Ductile Iron Pipe or PVC AWWA C-905 for larger than 12-INCH.	Pipeline Design Manual - 2008	Page S-15.3.
	313	<b>PROFILES - SEWER - MANHOLES.</b> Manhole depths within Standard Details limitations. Sewers designed at normal depth (up to ten (10) feet) unless specified in report or required by conditions/design.	Pipeline Design Manual - 2008	Page S-18.1.
	314	<b>PROFILES - SEWER - MANHOLES.</b> Frame and cover set at proposed elevation shown on profile, one (1) foot above existing ground or at existing grade.	Pipeline Design Manual - 2008	Page S-11.2.
	315	<b>PROFILES - SEWER - MANHOLES.</b> Shallow manhole specified on profile.	Pipeline Design Manual - 2008	Page S-18.1.
	316	<b>PROFILES - SEWER - MANHOLES.</b> Type of existing manhole. (Indicate brick or precast)	Pipeline Design Manual - 2008	Page S-12.1.
	317	<b>PROFILES - SEWER - MANHOLES.</b> Manhole drop connections labeled on profile.	Pipeline Design Manual - 2008	Page S-16.1.
	318	<b>PROFILES - SEWER - MANHOLES.</b> Invert elevations at intersection coincide.	DR Checklist	
	319	<b>PROFILES - SEWER - MANHOLES.</b> Rim elevations shown, submit tabulations. Verify rim elevations with other profiles.	DR Checklist	

Prescreen Rejection Item <input checked="" type="checkbox"/>	DR Checklist No.	DR Type DRP Project Design Checklist Item	Reference	Ref. Page#
	320	<b>PROFILES - SEWER - MANHOLES.</b> Invert elevations correct, proper jump in inverts between different sizes. Provide 0.10' minimum drop through manhole.	Pipeline Design Manual - 2008	Page S-17.1 thru S-17.6.
	321	<b>PROFILES - SEWER - MANHOLES.</b> DHC's shown, station and top elevation.	Pipeline Design Manual - 2008	Page S-27.4.
	322	<b>PROFILES - SEWER - MANHOLES.</b> Special design for manholes over twenty four (24) feet deep.	Pipeline Design Manual - 2008	Page S-18.1.
	323	<b>PROFILES - SEWER - MANHOLES.</b> Fall prevention systems for manholes over twenty (20) feet deep (minimum 60" diameter manhole) shown in profile and specified in General Notes.	Pipeline Design Manual - 2008	Pages S-18.1 and S-20.1.
	324	<b>PROFILES - SEWER - MANHOLES.</b> Show correct cross-slope on rim.	Pipeline Design Manual - 2008	Page S-11.2. Show correct cross-slope on rim. Page S-17.3.
	325	<b>PROFILES - SEWER - PRESSURE SEWER / FORCE MAINS.</b> Air/vacuum and air release valves provided at high points. Ideally, high points should be avoided.	Pipeline Design Manual - 2008	Pages S-25.3 and S-25.4.
	326	<b>PROFILES - SEWER - PRESSURE SEWER / FORCE MAINS.</b> Flushing connections every four hundred (400) ± feet and at dead ends.	Pipeline Design Manual - 2008	Page S-25.4.
	327	<b>PROFILES - SEWER - PRESSURE SEWER / FORCE MAINS.</b> Transition manhole at pressure sewer connection to gravity system. SD PS/4.0, PS/4.1& PS/4.2	Pipeline Design Manual - 2008	Page S-25.4.