

Major Revisions in April 2024 Edition of the HRSD Design and Construction Standards

Section	Title	Revision Summary
30	Deep Excavation Support Systems	This is a new section for the 2024 publication – please review this section carefully during the design phase of every project.
5	Capital Project Cost, Schedule, and Risk Reporting	Paragraph II.C - This section has been modified to require the project schedule to be submitted in Excel format.
6	Drawings, Record Drawings and Valve Guides	<p>Note that HRSD has migrated from Meridian to Adept for our record drawing retention system.</p> <p>Paragraph II.G.3.i– For pipeline projects, HRSD now requires the anticipated trench width for construction be shown on the drawings.</p> <p>Paragraph II.G.5 – Record drawings must indicate the location of any non-sewer utilities installed, relocated or encountered during the project.</p> <p>Paragraph III.A.3 – Show the location of and instrument number for all easements obtained for a project.</p>
9	Real Estate Acquisition and Plat Guidelines	<p>Paragraph VI – Clarification that Phase 1 ESAs shall be prepared per ASTM 1527 for all fee simple acquisitions and should be performed during the site evaluation stage of the project. Since ESAs expire 180 days after commencement, they may need to be updated so that a valid ESA is available at the time of property acquisition.</p> <p>Paragraph VII – Demolition of Structures – For a typical project with an assigned project manager, that project manager will be responsible for the complete demolition process required for existing structures on the purchased properties. This effort will be done in coordination with the Real Estate Manager using the demolition specification and checklist. Any demolition activities not associated with a planned project will be managed by the Real Estate Manager.</p>
11	Public Communication Program	<p>The title of this section has changed from Public Participation Program to Public Communication Program.</p> <p>Several attachments were added and deleted – please review this section carefully at the start of each project.</p>
12	Preconstruction Assessment and Damage Mitigation Procedures	Attachment J: Sample Waiver Request was added. Note that waivers from any requirements of this section must be approved by both the responsible Real Estate Manager and Chief of Design and Construction.

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23	VDOT 2011 Work Area Protection Manual Requirements	<p>PPE Requirements: All workers and flaggers are required to wear ANSI/ISEA 107-2010 Class 3 High Visibility safety apparel when exposed to traffic and construction equipment.- The safety apparel shall be securely fastened to maximize the visibility of the workers. -Hard hats with 360 degrees of retroreflective material shall also be worn. -</p> <p>For workers installing and removing temporary traffic control devices as well as flaggers, the following Personal Protective Equipment (PPE) is required at all times both day and night:</p> <ul style="list-style-type: none"> • ANSI/ISEA 107-2010 Class 3 High Visibility Vest • Hard Hat with 360 degrees retroreflective material • Type E trousers (full-length waistband trousers or overalls • ANSI Z41. 1999 Foot Protection <p>Flagger stations shall be illuminated at night. -Streetlights or vehicle headlights do not satisfy illumination requirements for flagger stations. -The light source shall produce a minimum of 50 lux or 5 foot-candles for the entire area. -The light source needs to be higher than the flagger station and must not interfere with the flagger or motorist's line of sight.</p>
31	Treatment Plants	Deleted reference to Solids Management Plan
32	Electrical and Instrumentation	<p>This section has been updated extensively and warrants a careful review for new, changed, and deleted requirements.</p> <p>Paragraph V - HRSD's Electrical & Instrumentation Division developed a Quick Manufacturers Reference Guide. The quick reference guide was created for engineering design consultants/contractors to utilize as a tool so that approved manufacturers can easily be identified without having to search the entire document. These manufacturers have been vetted based on criteria including but not limited to cost, application, performance, reliability, service, and support. If the manufacturer's name is not listed for a specific product, process, or application, then please contact the E&I Division for further guidance.</p>
34	Miscellaneous	This section has been updated extensively and warrants a careful review for new, changed, and deleted requirements.
36	Standard Details	This section has been updated extensively and warrants a careful review for new, changed, and deleted requirements.

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40	09900 – Protective Coatings	Paragraph I.F.4.b. – Deleted