

**JCSA Special Provisions to the  
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<b>Item</b>	<b>Title</b>	<b>Page</b>	<b>Subsection</b>	<b>Modification</b>
1.	Products and Materials	200-18	V.5.10.E.1.a. Gate Valves	Delete the second paragraph and replace with the following: "Gate Valves shall be manufactured by Mueller Company 2360 Series or Kennedy Valve Company Kenseal II, or approved equal."
2.	Products and Materials	200-19	V.5.10.E.1.b. Gate Valves	Delete paragraph in its entirety.
3.	Products and Materials	200-19	V.5.10.E.1.e. Valve Operators	Revise the first sentence to read as follows: "Buried valves shall have a two-inch square operating nut conforming to AWWA C509, and shall open counter clockwise."
4.	Products and Materials	200-21	V.5.10.G.3.a. Joint Restraint Devices	Delete the Paragraph in its entirety.
5.	Products and Materials	200-22	V.5.10.G.5. Concrete Reaction Blocking	Delete sentence and replace with the following: 5. "Concrete reaction blocking shall not be permitted, with the exception of tapping pressure mains. Tapping sleeve and hardware shall be wrapped with 6 mil polyethylene prior to placing the concrete."
6.	Products and Materials	200-22 & 23	V.5.10.H.3. through V.5.10.H.6. Tapping Valves and Sleeves	Delete paragraphs three through six.
7.	Products and Materials	200-23	V.5.10.H.7. Tapping Valves and Sleeves	Delete first sentence and replace with the following:

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				7. "Tapping sleeves shall be constructed of all stainless steel conforming to the following requirements:"
8.	Products and Materials	200-24	V.5.10.I.3.c. Sleeves and Couplings	Add Ford Meter Box Company, Inc., Ultra-Flex FC2W and Mueller Company, AquaGrip as approved products.
9.	Products and Materials	200-29	V.5.11.F. Manhole/Structure Coatings	<p>1. Revise 3. as follows:</p> <p>3. "Manhole Coatings shall be 100% solids epoxy in accordance with the HRPDC Regional Construction Standards (Sixth Edition) Division 2, page 200-60, Section V.5.21.H."</p> <p>2. Revise 4. as follows:</p> <p>4. "Manhole epoxy coating shall be applied to a minimum dry film thickness of 125 mils."</p>
10.	Products and Materials	200-29	V.5.11.G. Clean-Out Assemblies	Delete "Fernco Strong Back RC Series coupling or Non-Shear DFW-HPI (if required)" and replace with "Ford Meter Box Company, Inc. Ultra-Flex FC2W coupling with stainless steel bolts".
11.	Products and Materials	200-39	V.5.19.B.2. Polyvinyl Chloride (PVC) Pipe	Delete the second sentence and replace with: "Pipe sizes larger than 12-inch shall be Ductile Iron Pipe, or as approved by JCSA".
12.	Products and Materials	200-41	V.5.19.E.1.a. Gate Valves	Delete the second paragraph and replace with the following:  "Gate valves shall be manufactured by Mueller Company 2360 Series

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				or Kennedy Valve Company Kenseal II, or approved equal.”
13.	Products and Materials	200-44	V.5.19.G.6. Fire Hydrants	Delete the sentence and replace with the following:  "Fire hydrants shall be Mueller Centurion - A 423, American Flow Controls American Darling B84B, or Kennedy Guardian K-81, or U.S. Pipe, Metropolitan 250, Model 94. The operating nut shall turn left (counter-clockwise) to open the fire hydrant."
14.	Products and Materials	200-44	V.5.19.G.7. Fire Hydrants	Add note 7 as follows:  7. "The upper standpipe shall be painted OSHA Red and the nozzle caps and dome shall be painted gloss white".
15.	Products and Materials	200-45	V.5.19.H.4.b. and V.5.19.H.4.d. Service Saddle	1. Delete the first sentence of paragraph “b” and replace with:  ”Saddle bodies shall be 85-5-5-5 Cast Bronze per ASTM B62 or B584”.  2. Revise paragraph "d" to require 3.5 inch minimum width band.
16.	Products and Materials	200-45	V.5.19.J. Water Meters	Add the following:  “Water meters shall be provided in accordance with Section 2.27 of the JCSA Design and Acceptance Criteria manual.
17.	Products and	200-45	V. 5.19.K.2.a.	

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	Materials		Joint Restraint Devices	Delete the paragraph “a” in its entirety.
18.	Products and Materials	200-46	V.5.19.K.4. Concrete Reaction Blocking	Delete sentence and replace with the following:  4. "Concrete reaction blocking shall not be permitted, with the exception of tapping pressure mains. Tapping sleeve and hardware shall be wrapped with 6 mil polyethylene prior to placing the concrete."
19.	Products and Materials	200-47	V.5.19.L.3. Tapping Valves and Sleeves	Delete paragraph in its entirety.
20.	Products and Materials	200-47	V.5.19.L.4. Tapping Valves and Sleeves	Delete first paragraph and replace with the following:  4. “Tapping sleeves shall be constructed of all stainless steel conforming to the following requirements:”
21.	Products and Materials	200-48	V.5.19.M.f. Sleeves and Couplings	Add The Ford Meter Box Company, Inc., Ultra-Flex FC2W, Romac Alpha, and Mueller Company, AquaGrip approved products.
22.	Abandonment of Existing Pipelines and Structures	530-3	II.2.1.E. Laterals and Cleanouts	Replace paragraphs 1.c and 2.a, and add to 3. following “...to remain active” with the following:  “Plugging at the sewer main with a grout plug by open cut excavation, internal grout plugging from inside the main, or installing an approved CIPP sectional liner (minimum 2 feet long) centered on the lateral opening”.

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23.	Water Distribution	801-6	II.2.2.F. Tracer Wire	<p>Revise the first sentence to read as follows:</p> <p>“All underground pressure pipe systems shall be installed with continuous tracer wire, conforming to Section 200, attached every 10-feet with plastic strapping to the piping system.”</p>
24.	Water Distribution	801-7	II.2.4.B. Hydrant Installation	<p>Revise the second sentence to read as follows:</p> <p>“Nozzles shall be set 18 to 24-inches above finished grade (measure from established finished grade to the centerline of the nozzle).”</p>
25.	Water Distribution	801-8	II.2.7.A. Connections to Existing Mains	<ol style="list-style-type: none"> <li>1. Add the following after the first sentence:  “The Work Plan shall be detailed including valve operation, installation procedures, and testing processes. An anticipated timeline of the shutdown shall also be provided by the Contractor. “</li> <li>2. Add the following after the last sentence:  “Work can be scheduled between 7 a.m. Monday to 4 p.m. Friday. No Work shall be scheduled/performed after 4 p.m. Friday, on Saturday, Sunday or on Holidays. It is preferred that Work be performed during normal business hours. However, avoiding customer shutdowns and high demand periods may require off hours Work.”</li> </ol>
26.	Water	801-10	II.2.7.R.3.	

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	Distribution		Tapping Existing Mains Under Pressure	Under “Minimum Recommended Separation from Existing Joint” replace “See Special Provisions” with the following:  “The minimum recommended separation from existing joints for pipes greater than 16-inch diameter shall be as noted in the Contract Documents.”
27.	Water Distribution	801-13	II.2.8.A.6. Testing and Inspection	Replace with the following:  6. “Prior to initiating testing, Contractors shall fill and soak water mains for a minimum of 24 hours. The JCSA Inspector shall be notified 3 business days prior to flushing and will confirm with the JCSA Chief Water Engineer that adequate water is available for flushing. Contractor shall provide the required duration and volume to the Inspector. Flushing will be scheduled only on Mondays, unless authorized otherwise by JCSA, and will be on a first come-first serve basis.”
28.	Water Distribution	801-15	II.2.8.C.1. Leakage Test	Replace the third sentence to the end of the paragraph with the following:  “Allowable leakage is zero.”
29.	Water Distribution	801-16	II.2.8.D.1.b. Disinfection Preliminary Flushing	Revise the second sentence adding the following after “...(FPS)”:  “...with the system pressure above 40 psi at all times during the flushing sequence. The system pressure shall be monitored by a JCSA employee at all times during the flushing sequence. Should the pressure drop below 40 psi the flushing flow shall be reduced to bring

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				the system pressure above 40 psi.”
30.	Water Distribution	801-19	II.2.8.D.5. Disinfection Preliminary Flushing	Option A: Delete 16-hours and replace with 24-hours. Option B: Delete in its entirety.
31.	Sanitary Gravity Sewer System	802-8	II.2.3.I.2.f. Application Requirements	Delete and replace with the following:  f. “The epoxy coating system shall be applied so as to provide a minimum total dry film thickness of 125 mils.”
32.	Sanitary Gravity Sewer System	802-8	II.2.4.A. Testing and Inspection	1. Modify Paragraph 1 as follows:  “All flushing, air, or vacuum testing....”  2. Add the following paragraph:  7. “No testing shall be performed on sanitary sewer mains until 30 days following complete filling of the trench to the proposed subgrade elevation.”
33.	Sanitary Gravity Sewer System	802-9	II.2.4.B.1.b. Deflection Test	Delete entirely, as JCSA does not require deflection testing unless visual inspection, or internal television inspection, so warrants.
34.	Sanitary Gravity Sewer System	802-11	II.2.4.B.1.c.(2). Infiltration	Delete entirely, as JCSA does not allow Infiltration testing.

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35.	Sanitary Gravity Sewer System	802-12	II.2.4.B.1.d. Remote Camera/TV Inspection	For development construction, television inspection shall not be performed until the letter certifying that all other utilities have been installed, is received by the JCSA.
36.	Sanitary Gravity Sewer System	802-13	II.2.4.C.1.a.(1). Manhole Testing – Vacuum Test	Add the following:  “Vacuum testing shall be performed with chimney rings and castings installed. Vacuum tests are required on coated manholes.”
37.	Sanitary Force Main Systems	803-6	II.2.2.F. Tracer Wire	Revise the first sentence to read as follows:  “All underground pressure pipe systems shall be installed with continuous tracer wire, conforming to Section 200, attached every 10-feet with plastic strapping to the piping system.”
38.	Sanitary Force Main Systems	803-7	II.2.6.A. Connections To Existing Mains	Revise to read:  “For pipe diameters larger than 16-inches, connections shall be made as detailed in the Contract Documents.”
39.	Sanitary Force Main Systems	803-7	II.2.6.B. Connections To Existing Mains	1. Add the following after the first sentence:  “The Work Plan shall be detailed including any pump station shutdowns, pump and hauls, valve operation, installation procedures and testing processes. An anticipated timeline of the shutdown shall also be provided by the Contractor.”



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				<p>2. Add the following after the last sentence:</p> <p>“Work can be scheduled between 7 a.m. Monday to 4 p.m. Friday. No Work shall be scheduled/performed after 4 p.m. Friday, on Saturday, Sunday or on Holidays. It is preferred that Work be performed during normal business hours.”</p>
40.	Sanitary Force Main Systems	803-10	II.2.6.U.3. Tapping Existing Mains Under Pressure	<p>Under “Minimum Recommended Separation from Existing Joint” replace “See Special Provisions” with the following:</p> <p>“The minimum recommended separation from existing joints for pipes greater than 16-inch diameter shall be as noted in the Contract Documents.”</p>
41.	Sewer Line Cleaning	810-4	II.2.2.A.4. Cleaning Operations	<p>Revise the first sentence to read as follows:</p> <p>“Existing flows shall not be interrupted for periods longer than necessary, but in no case shall back-ups into homes or sewer overflows be permitted.”</p>
42.	Television Inspection	811-1	I.1.2.A. Submittals	<p>Add the following sentence after the first sentence:</p> <p>“The storage media shall be coordinated with JCSA prior to initiating the job. The storage media shall be compatible with JCSA viewing capabilities.”</p>

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43.	Chemical Grouting	817-1	I.1.1.A. General	Add the following sentence after the first sentence:  “JCSA does not allow chemical grouting as a sanitary sewer system rehabilitation method except on a case by case basis as determined by the Chief Engineer or General Manager.”
44.	Point Repair by Excavation	818-2	II.2.2.E., II.2.2.F. and II.2.2.H. Installation	Delete references to “Fernco Strong Back RC or approved equal”, “DFW/HPI non-shear coupling”, Mission Flex Seal ARC Coupling”, and “flexible” couplings, as JCSA does not permit the use of these couplings. For acceptable sleeves and couplings, refer to Section 200 and associated JCSA Special Provisions.
45.	Sanitary Sewer Service Reconnection	821-4	II.2.2.B.4.a. Direct Cutting Method	<ol style="list-style-type: none"> <li>1. Delete the following in the fourth sentence:  “either a chemical grout verified to be compatible with the liner pipe to provide a smooth transition; or,”</li> <li>2. Also delete the next to last sentence in its entirety which reads:  “Grout sealing shall be performed in accordance with Section 817 – Chemical Grouting.”</li> </ol>
46.	Sanitary Sewer Service Reconnection	821-4	II.2.2.B.5.a. through II.2.2.B.5.f. PVC Saddle Tee	Delete paragraphs 5.a.-f., in entirety as the JCSA does not allow the saddle Tee described.
47.	Manhole Rehabilitation	822-5	II.2.2.H. Cementitious Liner	Replace the first sentence with the following:

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			Installation	“JCSA does not allow cementitious lining of manholes except on a case by case basis as determined by the Chief Engineer or General Manager.”
48.	Manhole Rehabilitation	822-10	II.2.3.F.3. Epoxy Manhole Monolithic Lining System	Add paragraph “d” as follows:  d. “A vacuum test conforming to the requirements of ASTM C 1244 shall be performed for every lined manhole or circular structure.”

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1.	Standard Details	EW_01	Pipe Bedding	<p>Add the following note on Sheet 2 of 2 as Note 10:</p> <p>10. “All PVC pipe shall use Type IV bedding; all DI pipe shall use Type III bedding”</p>
2.	Standard Details	WD_01	Single & Dual Service Connections	<p>Revise the detail as follows:</p> <p>1. Add the following note 1:</p> <p style="padding-left: 40px;">1. “The single and dual service water meter boxes shall be a minimum of 2.5-feet from a property line except; no water meter shall be placed within 5 feet edge to edge of any franchise utility above or below grade junction box, pedestal, transformer box, or the like. If the developer cannot control where the franchise utility companies place these types of structures then single services shall be incorporated in the design plans a minimum of 5 feet from the property lines.”</p> <p>2. Replace Note 3 with the following:</p> <p style="padding-left: 40px;">3. “All water mains shall be tapped using a tapping saddle. All saddles to be in accordance with JCSA Special Provision for Section 200.V.5.19.H.4 of this Appendix.”</p> <p>4. Multiple services (3 or 4 off the same service pipe) shall use a Ford “Y” (Y11-474) with appropriate brass compression couplings. Permitted where approved by JCSA.</p>

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Item	Title	Detail	Name	Notes/Modification
3.	Standard Details	WD_02	Water Service Installation Detail	<ol style="list-style-type: none"> <li>1. Delete: Type I, and Type II, water meter box and replace with JCSA Water Meter Detail W14.0.</li> <li>2. Delete: See water meter box details (Type I or Type II) and replace with  “See JCSA Water Meter Box detail W14.0.”</li> <li>3. Delete: Note 1 in its entirety and replace as follows:  “All water mains shall be tapped using a tapping saddle. All tapping saddles shall be in accordance with JCSA Special Provision for section 200.V.5.19.H.4 of this Appendix.”</li> <li>4. Add: Note 5 as follows:               <ol style="list-style-type: none"> <li>5. “Water meter box installation shall maintain a minimum 18-inch horizontal edge-to-edge separation from driveways and/or drive paths, sidewalks, bike paths, curbing and adjacent water meter boxes.”</li> </ol> </li> <li>6. Add: Note 6: as follows:               <ol style="list-style-type: none"> <li>6. “Water meter box installation shall maintain a minimum 5-ft horizontal edge-to-edge separation from other franchise utility infrastructure and surface improvements.”</li> </ol> </li> <li>7. Add: Note 7:               <ol style="list-style-type: none"> <li>7. “Water service pipes shall be perpendicular to the main, except in cul-de-sacs.”</li> </ol> </li> </ol>

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				<p>8. Add: Note 8:</p> <p>8. “Water meter relocations shall require a new tap when landscaping or other physical features require relocation of the existing meter box more than 5-feet horizontally from its existing position. A new tap shall consist of a new saddle connection to the water main, new service pipe, and connection to the relocated water meter box or new water meter box. The new tap will also require the abandonment of the existing service pipe and removal of the saddle and the water main repaired with the appropriate repair sleeve.”</p>
4.	Standard Details	WD_03 and WD_04	Water Meter Box (Type I & II)	Delete these details and replace with JCSA 5/8 x 3/4 through 1-inch Water Meter Box detail, Drawing No. W14.0.
5.	Standard Details	WD_05	Blow-Off Assembly	<p>1. Revise Detail Sheet 1 of 2 as follows:</p> <p>a. Add Note 3. as follows:</p> <p>3. “For PVC pipe restrained lengths refer to JCSA Joint Restraint Table Detail JR1.0”.</p> <p>2. Revise detail Sheet 2 of 2 as follows:</p> <p>a. Revise Note 2 to read as follows:</p> <p>2. “A blow-off is to be used on pipe sizes less than 16-inches in diameter, or as directed by JCSA.</p>

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				<p>3. Revise Note 3 to read as follows:</p> <p>3. "A fire hydrant is to be used as a blow-off assembly for pipe sizes 16-inches or greater, or as directed by JCSA."</p>
6.	Standard Details	WD_06, WD_07 and WD_08	Fire Hydrant Setting (Type I, II & III)	<p>Revise detail as follows:</p> <p>1. The stone around the base of the hydrant shall extend at least 1.5 feet below the hydrant and at least 1.5 feet on each side.</p> <p>2. Concrete restraint behind main tee is required by JCSA when connection is to an existing main.</p> <p>3. JCSA's painting requirements are as follows: The upper standpipe shall be painted OSHA Red and the nozzle caps and dome shall be painted Gloss White.</p>
7.	Standard Details	WD_11& WD_15	Concrete Vault - H2O Loading (3" thru 10" Water Meter Assemblies) & Precast Concrete Vault - H2O Loading (3" thru 10" Water Meter Assemblies	<p>Add: Note as follows:</p> <p>1. All 3", 4", and 6" meters shall be Neptune Technology Group TRU/FLO Compound meter with strainer as approved by JCSA. All 6", 8", and 10" meters sized for fire flows as well as domestic flow shall be a Neptune Technology Group Protectus III as approved by JCSA.</p> <p>2. Provide a minimum of 4 pipe diameters of straight run pipe upstream of the meter and strainer assembly. Provide a minimum of 2 pipe diameters of straight run pipe downstream of the meter and strainer assembly. Straight pipe can include fully open fittings during normal</p>

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				<p>operation.</p> <p>3. Provide positive drainage away from the vault.</p> <p>4. Developer/Contractor is required to setup an account with JCSA Customer Service and pay all the appropriate fees. The water meter and appurtenances shall be purchased and installed by the Developer/Contractor and witnessed by JCSA personnel.</p> <p>5. Pipe supports shall be stainless steel as manufactured by Stand-on or JCSA approved equal.</p> <p>6. Valve at the water main shall remain closed until the water meter has been installed, all fees paid, and installation accepted by JCSA.</p> <p>7. Vault Dimensions: Delete dimension table and replace as follows:</p> <table border="1" data-bbox="949 961 1877 1203"> <thead> <tr> <th>Meter Size</th> <th>Meter Type</th> <th>Min. "L" Dim.</th> <th>Min. "W" Dim.</th> <th>Hatch Dim.</th> </tr> </thead> <tbody> <tr> <td>3" or 4"</td> <td>TRU/FLO</td> <td>6' - 4"</td> <td>4' - 0"</td> <td>36" x 60"</td> </tr> <tr> <td>6"</td> <td>TRU/FLO</td> <td>6' - 9"</td> <td>4' - 6"</td> <td>36" x 60"</td> </tr> <tr> <td>6"</td> <td>PROTECTUS III</td> <td>7' - 11"</td> <td>5' - 6"</td> <td>48" x 72"</td> </tr> <tr> <td>8"</td> <td>PROTECTUS III</td> <td>8' - 7"</td> <td>6' - 0"</td> <td>48" x 72"</td> </tr> <tr> <td>10"</td> <td>PROTECTUS III</td> <td>9' 10"</td> <td>6' - 0"</td> <td>48" x 72"</td> </tr> </tbody> </table> <p>8. Vault Plan:</p> <p>a. Replace: The flexible coupling for the 3-inch meters shall be a restrained sleeve.</p> <p>b. Replace: The flexible coupling for 4-inch and larger meters</p>	Meter Size	Meter Type	Min. "L" Dim.	Min. "W" Dim.	Hatch Dim.	3" or 4"	TRU/FLO	6' - 4"	4' - 0"	36" x 60"	6"	TRU/FLO	6' - 9"	4' - 6"	36" x 60"	6"	PROTECTUS III	7' - 11"	5' - 6"	48" x 72"	8"	PROTECTUS III	8' - 7"	6' - 0"	48" x 72"	10"	PROTECTUS III	9' 10"	6' - 0"	48" x 72"
Meter Size	Meter Type	Min. "L" Dim.	Min. "W" Dim.	Hatch Dim.																														
3" or 4"	TRU/FLO	6' - 4"	4' - 0"	36" x 60"																														
6"	TRU/FLO	6' - 9"	4' - 6"	36" x 60"																														
6"	PROTECTUS III	7' - 11"	5' - 6"	48" x 72"																														
8"	PROTECTUS III	8' - 7"	6' - 0"	48" x 72"																														
10"	PROTECTUS III	9' 10"	6' - 0"	48" x 72"																														



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				<p>shall be a Romac ALPHA restrained coupling or approved equal by JCSA.</p> <p>c. Add: Provide minimum 18-inch clearance between exterior surface of the meter and the concrete vault on both sides.</p> <p>9. Vault Section:</p> <p>a. Replace: Provide minimum 18-inch clearance between the flow through valves and exterior of the vault.</p> <p>b. Remove “Core Wall” and replace with a PVC wall sleeve (typ).</p> <p>c. Notes on page 3 of 3:</p> <p>i. Note 3: Delete flange adapter and use a spool pipe flange by plain end.</p> <p>ii. Note 6: Holes shall be 1-7/8” each for the remote read equipment.</p> <p>iii. Note 10: Interior and exterior coating of vault and exterior coating of the piping and fittings shall be per JCSA detail VPT1.0 Meter Vault Coating Schedule.</p>
8.	Standard Details	WD_13	Water Sampling Station	<p>Revise the detail as follows:</p> <ol style="list-style-type: none"> <li>1. Provide a lockable hasp on the top of the sample station.</li> <li>2. In Note 1 change “Brass” to “Stainless Steel”.</li> <li>3. Add “Dimension location on plan” to Note 2. The 2” foam insulation is to extend 18” below grade.</li> <li>4. The Ford #L8433 elbow should be followed by “(J452-L84-330)”</li> </ol>
9.	Standard Details	SS_01 & SS_03	Standard Precast Concrete Manhole	Revise details as follows:

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			w/Extended Monolithic Base & Sanitary Sewer Straddle Manhole	<ol style="list-style-type: none"> <li>1. Rims of manholes in non-maintained and non-traffic areas shall be 12-inches minimum above the surrounding grade.</li> <li>2. Flat top slabs are not permitted for these installations and shall only be used on shallow manhole installations (depth less than 4-feet), unless authorized otherwise by JCSA.</li> </ol>
10.	Standard Details	SS-04	Sanitary Sewer Interior Drop Manhole	<p>Revise detail as follows:</p> <ol style="list-style-type: none"> <li>1. Add the following sentences to Note 3 as follows:  “JCSA requires the transition coupling to be placed directly to the tee within the wall of the manhole opening. No pipe joints or couplings shall be permitted within 10-feet of the manhole.”</li> </ol>
11.	Standard Details	SS_05	Sanitary Sewer Exterior Drop Manhole (For Existing Manhole)	Delete this detail as JCSA does not allow exterior drop manholes.
12.	Standard Details	SS_11	Sanitary Service Lateral Clean Out Frame and Cover	<p>Revise Note #1 to read as follows:</p> <ol style="list-style-type: none"> <li>1. “Cleanout frame and cover to be supplied by Capital Foundry of Virginia, Inc., (Phone # 757-427-9431) Model number NPN-CW-18* or approved equal.”</li> </ol>
13.	Standard Details	SS_12	Sanitary Service Lateral Clean Out Frame and Cover for Heavy Loads	<p>Revise Notes 1 and 2 to read as follows:</p> <ol style="list-style-type: none"> <li>1. “Delete “ETC.” Replace with “sidewalks and all other non-pervious</li> </ol>

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				<p>areas”</p> <p>2. “Cleanout frame and cover to be supplied by Capital Foundry of Virginia, Inc., (Phone # 757-427-9431) Model number VB9*S or approved equal.”</p>
14.	Standard Details	SS_13	Sanitary Sewer Main Line Clean Out Box	<p>Replace square frame and cover with round frame and cover per detail WS_01 Standard Valve Box Frame and Cover. All other components of the detail apply assuming the shaping of the concrete and stone base shall be adapted to the round frame base.</p>
15.	Standard Details	SS_14	Sanitary Sewer Service Connection	<p>Revise detail as follows:</p> <p>1. In James City County the clean out shall terminate at the property line, right-of-way or easement line, unless otherwise authorized.</p> <p>2. Add Note 5 as follows:</p> <p>5. “For tapping an existing sewer main, use “Sealtite” sewer pipe saddle or approved equal.”</p> <p>3. Delete “PVC or Cast Iron Cap (With Rigid Coupling)” from the detail and replace with “PVC or Cast Iron Threaded Cap/Plug With 2” Square Nut.</p> <p>4. Revise Note 4 to read:</p> <p>4. “Tracer wire shall be installed continuously from the main to the Right of Way or Easement line directly on top of the laterals. Tracer wire shall be attached to the laterals every 10</p>

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Item	Title	Detail	Name	Notes/Modification
				<p>feet with plastic strapping. Extend tracer wire up clean out stack and loop inside clean out box.”</p> <p>5. Add Note 6 as follows:</p> <p>6. “The single and dual sewer cleanouts shall be a minimum of 2.5-feet from a property line except; no cleanout shall be placed within 5 feet edge to edge of any franchise utility above or below grade junction box, pedestal, transformer box, or the like. If the developer cannot control where the franchise utility companies place these types of structures then single services shall be incorporated in the design plans a minimum of 5 feet from the property lines.”</p>
16.	Standard Details	SS_15	Dual Sanitary Sewer Service Connection	<p>Revise detail as follows:</p> <p>1. In James City County the clean out shall terminate at the property line, right-of-way or easement line, unless otherwise authorized.</p> <p>2. Add Note 5 as follows:</p> <p>5. “For tapping an existing sewer main, use “Sealtite” sewer pipe saddle or approved equal.”</p> <p>3. Add Note 6 as follows:</p> <p>6. “Tracer wire shall be installed continuously from the main to the Right of Way or Easement line, along each branch of the laterals, directly on top of the laterals. Tracer wire shall be attached to the laterals every 10 feet with plastic strapping. Extend tracer wire up clean out stack and loop inside clean out</p>

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<b>Item</b>	<b>Title</b>	<b>Detail</b>	<b>Name</b>	<b>Notes/Modification</b>
				<p align="center">box.”</p> <p>4. Add Note 7 as follows:</p> <p>7. “The single and dual sewer cleanouts shall be a minimum of 2.5-feet from a property line except; no cleanout shall be placed within 5 feet edge to edge of any franchise utility above or below grade junction box, pedestal, transformer box, or the like. If the developer cannot control where the franchise utility companies place these types of structures then single services shall be incorporated in the design plans a minimum of 5 feet from the property lines.”</p> <p>5. Add Note 8 as follows:</p> <p>8. “Where sewer mains are located in rear lot or remote easements and the public clean out is in a wooded non-maintained area, mark the clean out castings with a metal fence post driven at least 18-inches in the ground with at least two feet above grade.”</p>
17.	Standard Details	SS_16	Deep Sanitary Sewer Service Connection	<p>1. Deep sanitary sewer service connections shall be used where mains are 12 feet or deeper.</p> <p>2. Revise Note 2 to read:</p> <p>2. “Tracer wire shall be installed continuously from the main to the Right of Way or Easement line directly on top of the laterals. Tracer wire shall be attached to the laterals every 10 feet with plastic strapping. Extend tracer</p>

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<b>Item</b>	<b>Title</b>	<b>Detail</b>	<b>Name</b>	<b>Notes/Modification</b>
				wire up clean out stack and loop inside clean out box.”
18.	Standard Details	SS_20	Sanitary Sewer Service Connection - Alternate	Delete this detail as JCSA does not allow the Alternate. Reference JCSA Standard Detail S1.0, ACOP Standpipe Secondary Connection.
19.	Standard Details	SS_21	House Lateral Cleanout Alternate	Delete this detail as JCSA does not allow the Alternate.
20.	Standard Details	WS_02	Valve Setting Detail	<p>Revise detail as follows:</p> <ol style="list-style-type: none"> <li>1. Revise stone bedding depth from “6-inches” to “8-inches” beneath the valve box frame and cover and above the main to support the valve box.</li> <li>2. Add the following to the first sentence of Note 1: “... as measured from final grade.”</li> <li>3. Revise the second sentence of Note 1 to read:  “If operating nut is greater than 24” below top of valve box frame (as measured from final grade), a valve stem extension shall be installed”.</li> </ol>
21.	Standard Details	WS-03	Manual Air Vent Assembly	<p>Revise detail as follows:</p> <ol style="list-style-type: none"> <li>1. Revise the separation between valve box cover to the 2" brass threaded cap from “4" min/6" max” to “8"min/10" max”.</li> <li>2. The 2” check valve shall only be provided for water distribution</li> </ol>

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				systems. Acceptable manufacturers are The Ford Meter Box Co., Inc., Model HS11-777, NIBCO Model T-413 or equal.
22.	Standard Details	WS_04	Steel Casing Detail	<p>Revise detail as follows:</p> <ol style="list-style-type: none"> <li>1. Delete “Neoprene end seal or 8” brick to seal annular space at casing ends. If brick coat surface with bitumastic” as it is not permitted. Add Cascade C&amp;ES Rubber End Seal as an approved product for sealing the steel casing.</li> <li>2. Add notes 5 and 6 as follows: <ol style="list-style-type: none"> <li>5. “For gravity sewer mains, manholes shall not be placed closer than 5-feet minimum to one end and 25-feet minimum to the other end of the casing pipe.”</li> <li>6. “Carrier pipe installation to be witnessed by JCSA.”</li> </ol> </li> </ol>
23.	Standard Details	WS_09	Pipe Crossing	<p>Delete Note 1 and replace with Notes 1 &amp; 2 as follows:</p> <ol style="list-style-type: none"> <li>1. “Use of this detail shall be allowed by JCSA on a case by case basis and approval must be obtained from JCSA prior to implementation in the field.</li> <li>2. “Water mains crossing other pipes with 3 feet or less separation shall require a full joint of DIP water main centered on the pipe being crossed.”</li> </ol>
24.	Standard	JCSA		Add Detail

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	Details	W14.0	5/8 x 3/4 Thru 1" Water Meter Box	
25.	Standard Details	JCSA W15.0	1-1/2" and 2" Water Meter Setting	Add Detail
26.	Standard Details	JCSA W17.0	Detector Check Valve Assembly for Fire Suppression Systems	Add Detail
27.	Standard Details	JCSA W23.0	Temporary Construction Meter Installation	Add Detail
28.	Standard Details	JCSA S1.0	ACOP Standpipe Secondary Connection	Add Detail
29.	Standard Details	JCSA S12.1	Manual Air Release Valve for 3-inch and Smaller Diameter Force Mains	Add Detail
30.	Standard Details	JCSA S12.2	Low Pressure Force Main Terminal or In Line Flushing Assembly	Add Detail
31.	Standard Details	JCSA S16.0	Typical Anchor Detail for Grades over 20 Percent	Add Detail
32.	Standard Details	JCSA GP1.0, GP2.0, &	Residential Grinder Pump Installation Details	Add Detail



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		GP3.0		
33.	Standard Details	JR1.0	Joint Restraint Table	Add Detail
34.	Standard Details	JCSA PB1.0	Pipe Bridge	Add Detail
35.	Standard Details	JCSA PP1.0	Bituminous Pavement Patching for Utility Installation within VDOT Secondary Roads	Add Detail
36.	Standard Details	JCSA VPT1.0	Meter Vault Coating Schedule	Add Detail
37.	Standard Details	JCSA VWM1.0	Vented Watertight Manhole	Add Detail