General Conditions

A. Contractor Experience:

The Contractor shall have five (5) years of experience in relevant construction (sanitary, storm, water, and roadway rebuilding). Any site superintendent, at the time of bid, shall possess ten (10) years of experience in relevant construction (sanitary, storm, water, and roadway rebuilding). Also, a minimum of three (3) years of work experience with Municipalities and or VDOT is required.

B. Work on Sunday and City Holiday:

Time is of the essence on this contract. In order to maintain schedule, the Contractor may choose to work on Sunday or any City holiday. The Contractor shall be required to pay the City for project inspection services for those days. The payment rate is established at $75.00 per inspector, per hour, for each hour the inspector(s) provides the inspection service, which shall include travel to and from the site. The Contractor shall submit with each monthly invoice a check payable to The City of Newport News in an amount equivalent to the hours of inspector service times the rate for the specific billing period. There shall be a minimum service time of two (2) hours per Inspector.

The Contractor shall request approval from the City of any scheduled work on Saturdays, Sundays or City Holidays a minimum of 72 hours prior to the scheduled work date. Approval by the Director of the Department of Engineering or his representative is required for work on Saturdays, Sundays and City Holidays. There is no obligation or requirement that the City provide this service and the City cannot guarantee the availability of an Inspector.

NOTE: This requirement may not apply to contracts where work hour restrictions established by the City will require Sunday or Holiday work.

C. Coordination with Private and Public Utility Adjustments or Relocations:

At points where the Contractor's operations are adjacent to any public or private utility, damage to which might result in considerable expense, loss or inconvenience, work shall not commence until all arrangements necessary for the protection or relocation thereof have been completed.

The Contractor shall cooperate with the Owners of any underground or overhead utility lines in their removal and adjustment operations in order that these operations may progress in a reasonable manner and that duplication of adjustment work may be reduced to a minimum, and that services rendered by those parties will not be unnecessarily interrupted. Costs incurred by the Contractor from failure to coordinate this work with utility relocations shall be borne solely by the Contractor. In the event of interruption to any utility service as a result of accidental breakage, or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with said authority in the restoration of service. No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority. The Contractor shall be responsible for any damage to utilities due to neglect or due to his methods of performing the work and shall be responsible for the cost of restoring the utility to satisfactory service.

D. Authority of the Engineer:

The Contractor shall perform all of the work specified herein under the general direction and to entire satisfaction, approval, and acceptance of the Engineer. The Engineer shall decide all questions relating to measurements of quantities, the character of the work performed and as to whether the rate of progress will insure completion within the contract time. All questions as to the meaning of the specifications will be decided by the Engineer, and he/she shall have the authority to stop the work if necessary to insure its proper execution.

E. Construction Inspection Office Notification:

The Contractor shall notify construction inspection five (5) days prior to beginning construction. Contact the construction inspection office at (757) 933-2311.

Special Provisions
To the
Hampton Roads Planning District Commission
Regional Construction Standards (6th Edition)

The Department of Engineering's Standard Specifications "Part One – General Requirements", replaces Division 1 of the *Hampton Roads Planning District Commission Regional Construction Standards*, (*HRPDC Regional Construction Standards*), latest edition, except as noted.

In Part One – GENERAL REQUIREMENTS

DELTE Section 1004.10

DELETE Section 1004.11

In Section 302 ROADWAY CONSTRUCTION

ADD 2.1.I. Stormwater Sewer Pipe Rehabilitation By Cured-In-Place Method

1. **No work shall be performed by the Contractor except in the presence of the Owner's inspection personnel, unless otherwise approved. Prior to initiation of the Work the Contractor shall submit one set of CDs/DVDs with logs from each of the pre-installation television inspections performed.**

2. Storm sewer cleaning shall be as specified in "Section 810 – Sewer Line Cleaning" of the *Hampton Roads Planning District Commission Regional Construction Standards*, (*HRPDC Regional Construction Standards*), latest edition.

3. Television inspection shall be as specified in "Section 811 – Television Inspection" of the *HRPDC Regional Construction Standards*, latest edition.

4. Bypass pumping shall be as specified in "Section 812 – Bypass Pumping" of the *HRPDC Regional Construction Standards*, latest edition.

5. Pipe rehabilitation by cured-in-place pipe method shall be as specified in "Section 813 – Pipe Rehabilitation by Cured-in-Place Method" of the *HRPDC Regional Construction Standards*, latest edition,

TECHNICAL SPECIFICATIONS

Modifications to Regional Construction Standards

Section	Title	Page	Subsection	Modification
Division 1	General Provisions	101-1 thru 110-1		Division 1, Section 101 Thru Section 105.IV, Section 105.VI thru Section 108 and Section 109.I.1.3 thru Section 110 of the HRPDC Standards are deleted. Division 1, Section 105.V "Record Drawings", Section 109.I.1.1 and 109.I.1.2A and B "Incidental Items" are not deleted.
Division 1	General Provisions	105-6	V.5.5	**Add:** 5.5.A: Record drawings are required in two versions: a sealed PDF version formatted in the native drawing size and configuration and not having been rasterized; and an AutoCAD version which does not require a seal. The AutoCAD version shall be verified by the Contractor to match precisely in all respects the printed submittals and to have been constructed using standards consistent with the original drawing set.If the drawings were not originally created in AutoCAD a DXF version, verified to match precisely the native drawing content, may be submitted.
200	Products and Materials	200-16	V. Products - 5.10 Sanitary Force Main Systems - B.2.b.	**Deleted**
200	Products and Materials	200-17	V. Products - 5.10 Sanitary Force Main Systems - C.	**Add:** 11. To be used only for directional drill applications that is approved by the Director of Engineering.
200	Products and Materials	200-18	V. Products - 5.10 Sanitary Force Main Systems - D.	**Add:** 11. To be used only for directional drill applications that is approved by the Director of Engineering.
200	Products and Materials	200-24	V. Products - 5.11 Sanitary Gravity Sewer Systems - A.3.	**Revise:** 3.DI pipe for Gravity Sewer Systems shall be minimum thickness Class 52 and shall be a minimum pressure class 350 psi …"
200	Products and Materials	200-25	V. Products - 5.11 Sanitary Gravity Sewer Systems - B.3.	**Revise:** 3. PVC pipe sizes 4-inched through 15-inches in diameter shall conform to ASTM D3034 SDR 26, as indicated in the contract document. Delete SDR 21.
200	Products and Materials	200-25	V. Products - 5.11 Sanitary Gravity Sewer Systems - C.	**Deleted**
200	Products and Materials	200-37	V. Products - 5.17 Topsoil - B.	**Replace Second Sentence with:** "It shall consist of natural, friable, loamy soil without admixtures of subsoil or other foreign materials and shall be free from stumps, roots, hard lumps, stiff clays, stones, noxious weeds, brush, or other litter

Section	Title	Page	Subsection	Modification
200	Products and Materials	200-58	5.21.1.F Manhole Rehabilitation using Cementitious Products	**Add:** b. (1), Infiltration Control Mix shall be Permacast Dry, Permacast Plug or approved equal.
200	Products and Materials	200-58	5.21.1.F Manhole Rehabilitation using Cementitious Products	**Add:** c.(1).a. Grouting Mix shall be Permacast Plug, Permacast Patch, or approved equal.
200	Products and Materials	200-58	5.21.1.F Manhole Rehabilitation using Cementitious Products	**Delete:** d.(1) Standard.Liner Mix.
200	Products and Materials	200-59	5.21.1.F Manhole Rehabilitation using Cementitious Products	**Add:** d. (2).a. High Performance Mix shall be MS-10,000 or approved equal.
200	Products and Materials	200-59	5.21.1.F Manhole Rehabilitation using Cementitious Products	**Add:** d. (2).b. High Performance Mix shall include ConShield admixture.
303	Earthwork	303-4	II. Execution - 2.1 Roadway Earthwork - J.	**Add:** Select material shall be Type 1 with a minimum CBR of 20 as specified in the VDOT Road & Bridge Specifications.
303	Earthwork	303-11	II. Execution - 2.2 Trenching, Backfilling, and Compacting - E.1.	**Add:** Initial backfill shall be select material Type 1 with a minimum CBR of 20 as specified in the VDOT Road & Bridge Specifications to a depth of 12" above the pipe.
303	Earthwork	303-11	II. Ececution - 2.2 Trenching, Backfilling, and Compacting - E.2.	**Revise:** "2. Pipe shall be bedded in accordance with the drawings. Bedding materials shall be Compacted Granulated material (Gravel- Max size ¾") VDOT No. 57 stone. Crushed Concrete is acceptable when approved by the Director of Engineering.
303	Earthwork	303-11	II. Ececution - 2.2 Trenching, Backfilling, and Compacting - E.3.	**Add:** Select material shall be sandy soils Type II and Type III as specified in the VDOT Road & Bridge Specifications.

Section	Title	Page	Sub-Section	Modification
317	Pavement Patching	317-2	II Execution, 2.1 General	**ADD:** F. Patching for Small Excavations (2' x 2' or smaller) and General Excavations (no dimension greater than 20'): 1. Sawcut pavement edge to undisturbed base stone a minimum of 1' on all sides outside of excavation. 2. Extend asphalt cutback to gutter pan or curb if within 2' of gutter pan or curb from sawcut line. 3. Extend asphalt cutback to full lane width if excavation disturbs more than 50% of lane width. 4. Multiple excavations within 10' edge to edge must be treated as a single continuous patch. G. Restoration for Trenches (any dimension greater than 20'): 1. Mill and pave a minimum of 5' in travel directions (5' prior to the edge of trench and 5' beyond the edge of trench) and 3' perpendicular to travel directions, measured from the edge of the excavation. 2. Mill and pave full road width if excavation disturbs more than 50% of full road width. 3. Mill and pave full lane width if excavation disturbs more than 50% of full lane width. 4. Patch is not permitted for Trenches. H. Special Rules for restoration of pavement cut(s) installed within 4 years of roadway construction/ reconstruction. 1. Cuts are generally prohibited, but may be allowed with mill and pave restoration as described below: a. Mill and pave a minimum of 10' (10' beyond the edges of excavation) in travel directions measured from the excavation edge for the full width of the asphalt. No minimum excavation size limits apply. b. On roads with 4 lanes or more and no median, the minimum paving width can be reduced to half of the existing paved width if the excavation affects less than half of the existing paved width. c. On divided roadways, the road width is measured from curb to curb (including median curbs), or edge of pavement if curb not present. I. Cores (6" diameter approximately) 1. Corings may be epoxyed back into the core hole if material is in good condition. J. Pavement Markings 1. All pavement markings must be restored in accordance with section 704.

Section	Title	Page	Sub-Section	Modification
317	Pavement Patching	317-3	III Measurement for Payment	**ADD:** F. City Pavement Patching Cost Participation 1. Where the City participates in costs for pavement patching or milling and paving, the participation costs shall be paid on completion of the entirety of the pavement work and acceptance by the City. 2. The City's Pavement Condition Index (PCI) can be found at http://nngov.maps.arcgis.com/apps/webappviewer/index.html?id=e9ac2f4aaef64b4e883e3e7ca912f94d 3. The City will not participate in patching costs for small and general excavations regardless of Pavement Condition Index (PCI). 4. For Trenches: a. Where PCI is 65 or higher, the City will not participate in milling and paving costs. b. Where PCI is 10 or less, the City will pay 100% of milling and paving costs. c. For PCI from 11 to 64, the City will pay a percentage of milling and paving costs as set forth below: **PCI** — **City Participation** 11 to 15 — 95% 16 to 20 — 90% 21 to 25 — 85% 26 to 30 — 80% 31 to 35 — 70% 36 to 40 — 60% 41 to 45 — 50% 46 to 50 — 40% 51 to 55 — 30% 56 to 60 — 20% 61 to 64 — 10%
502	Concrete Items	502-1	1. General -1.1	**Delete:** "composite detectable warning surface." **Replace with:** "concrete pavers with detectable warning surface".
502	Concrete Items	502-10	III. Measurement for Payment - A.1.	**Add:** "a. Combination Curb and Gutter. Combination curb and gutter unit price shall include 6" aggregate base (Type 1, Size 21A)".
502	Concrete Items	502-12	III. Measurement for Payment –I.1	**Delete:** "composite detectable warning surface." **Replace with:** "concrete pavers with detectable warning surface".
502	Concrete Items	502-12	III. Measurement for Payment –J	**Delete:** "composite detectable warning surface." **Replace with:** "concrete pavers with detectable warning surface".

Section	Title	Page	Subsection	Modification
502	Concrete Items	502-12	III. Measurement for Payment –J.1	**Delete:** "composite detectable warning surface." **Replace with:** "concrete pavers with detectable warning surface".
510	Relocating or Modifying Existing Miscellaneous Items	510-2	II. Execution - 2.3 Signs	**Add:** "Reinstalled signs shall be installed to the current Owner's specifications and inspected by the Owner's Traffic Operations staff prior to final inspection."
510	Relocating or Modifying Existing Miscellaneous Items	510-2	II. Execution - 2.4 Mailboxes and Newspaper Boxes	**Add:** "Mailboxes and newspaper boxes that are to be located within the clear zone as defined by the AASHTO shall be of a breakaway design as determined by the National Cooperative Highway Research Program Report 350, *Recommended Procedures for the Safety Performance Evaluation of Highway Features.*"
512	Maintaining Traffic	512-1	*Entire Section*	**Define:** It is to be understood that every mention of the *Virginia Work Area Protection Manual* is to be interpreted as, the Virginia Work Area Protection Manual along with the City of Newport News Supplement to the Virginia Work Area Protection Manual.
521	Pavers	521-1	I. General-I.1	**Delete Sentence:** "For composite detectable warning surface panels, refer to section 502". Newport News has deleted composite detectable warning surface panels and requires concrete pavers with detectable warning surface.
700	Traffic Control Devices	700-2	I. General - 1.2 Materials - I.4. (bullet 1)	**Delete and Replace with:** " • 110 MPH design wind speed shall be used in the designs. The alternate method for wind pressures provided in Appendix C shall not be used."
700	Traffic Control Devices	700-2	I. General - 1.2 Materials - I.4. (bullet 2)	**Deleted**
700	Traffic Control Devices	700-5	II. Execution - F.	**Replace:** Foundations for overhead sign structures shall be spread footings unless inadequate soil conditions require deep foundation systems, i.e., drilled piers, driven piles. Drilled foundations may be permitted except for single-pole structures, i.e., overhead single-pole-in-end forms, cantilever, or butterfly. Signal pole foundations shall be drilled unless otherwise shown on the plans, contract documents or as approved in writing by the Owner.

Section	Title	Page	Subsection	Modification
700	Traffic Control Devices	700-9	II. Execution - G.	**Replace:** "Breakaway connectors shall be installed on luminaire conductors and on signal conductors for signal head assemblies on pedestal poles. Breakaway connectors shall be nonfused for both the hot conductors and grounded conductor. Breakaway connectors shall be located in the hand hole of the pole."
700	Traffic Control Devices	700-10	II. Execution - G.1.	**Replace:** "Electrical service and lighting conductors shall be permanently identified in accessible locations (hand holes, transformer bases, junction boxes, control centers, etc.) with non-ferrous metal tags, free of sharp edges, attached to the conductor with nylon cable ties. Identifications shall be stamped on the metal tags "
700	Traffic Control Devices	700-11	II. Execution - G.2.	**Replace:** The color coding table for 14/4 Cable, Red shall be identified as "Don't Walk", Green shall be identified as "Walk" and Black shall be identified as "Spare".
700	Traffic Control Devices	700-11	II. Execution - G.2.	**Replace:** The color coding table for 14/3 Cable, Red shall be identified as "Spare" and Black shall be identified as "Positive".
700	Traffic Control Devices	700-11	II. Execution - G.2.	**Replace:** "Identifications shall be indicated on nonferrous metal tags free of sharp edges attached to the cable with nylon cable ties. The identification shall be stamped on the metal tags."
700	Traffic Control Devices	700-11	II. Execution - G.2.a.	**Delete and Replace with:** "Signal cable: phase and location of signal head; e.g., 01, 02, 05, 02 Ped"
700	Traffic Control Devices	700-12	II. Execution - H.	**Replace:** "Conduit Systems: Conduit systems shall be rigid except where contract documents specify otherwise. PVC, ~~fiberglass,~~ and metal conduit runs shall have the minimum number of couplings permitted by the use of standard conduit lengths. Ends of conduit sections that must be field cut shall be reamed smooth. High-density PE conduit shall be installed in continuous unspliced runs between enclosures. Field-threaded portions of metal conduit shall be galvanized. Except for expansion couplings, conduit sections shall be connected with couplings so that ends will abut squarely inside couplings."

Section	Title	Page	Subsection	Modification
700	Traffic Control Devices	700-12	II. Execution - H.	**Replace:** "After testing, all conduit runs that are to remain empty shall be equipped with a nylon or polypropylene pull rope having a tensile strength of at least 1,100 pounds and less than 15 percent elongation at yield. Twelve inches of pull tape or rope shall be doubled back into the conduit at each end."
700	Traffic Control Devices	700-12	II. Execution - H.	**Replace:** "After testing, all conduit runs with conductors installed shall be equipped with either a pull rope or tape having a tensile strength of at least 1,100 pounds and less than 15 percent elongation at yield. Twelve inches of pull tape or rope shall be secured inside of the junction box at each end."
700	Traffic Control Devices	700-12	II. Execution - H.1.	**Replace:** "Exposed conduit systems shall be fabricated of heavy wall PVC, or metal, with not more than four bends between any two outlets. The angular sum shall be not more than 360 degrees. When heavy-wall PVC conduit is accessible to public contact, it shall be covered with a protective shield, conforming to the requirement of VDOT Section 238, for a distance of at least 8 feet above the adjacent finished grade. Splice boxes or pull boxes shall be of a size that will allow proper termination of conduit and connection conductor cables as required by NEC. Conduit shall be terminated by means of approved fittings or bushings."
700	Traffic Control Devices	700-12	II. Execution - H.	**Replace:** "After testing, all conduit runs with conductors installed shall be equipped with either a pull rope or tape having a tensile strength of at least 1,100 pounds and less than 15 percent elongation at yield. Twelve inches of pull tape or rope shall be secured inside of the junction box at each end."
700	Traffic Control Devices	700-12	II. Execution - H.1.	**Replace:** "Exposed conduit systems shall be fabricated of heavy wall PVC, or metal, with not more than four bends between any two outlets. The angular sum shall be not more than 360 degrees. When heavy-wall PVC conduit is accessible to public contact, it shall be covered with a protective shield, conforming to the requirement of VDOT Section 238, for a distance of at least 8 feet above the adjacent finished grade. Splice boxes or pull boxes shall be of a size that will allow proper termination of conduit and connection conductor cables as required by NEC. Conduit shall be terminated by means of approved fittings or bushings."

Section	Title	Page	Subsection	Modification
700	Traffic Control Devices	700-13	II. Execution - H.2.	**Replace:** "All conduit to be installed under a proposed roadway or driveway shall be high-density PE. When conduit is to be installed under an existing roadway or driveway and open cutting is not permitted, conduit shall be installed by an approved directional boring method. Conduit for the directional boring method shall be high-density PE. With the approval of the Owner, the Contractor may elect to use the jacked method to install a metal pipe sleeve for installation of PVC conduit at no additional cost to the Owner."
700	Traffic Control Devices	700-13	II. Execution - I.	**Add:** "Junction box covers for streetlights and/or electrical service shall be molded with "ELECTRIC" in the top. Junction box covers for traffic signal wires and/or traffic signal communication wire shall be molded with "TRAFFIC" in the top."
704	Pavement Markings and Markers	704-2	II. Execution - 2.1 Procedures	**Replace:** "When establishing the location of pavement markings, the Contractor shall mark the locations on the roadway by installing premarkings. Premarkings shall be reviewed and approved by the Owner prior to permanent marking installation. Premarkings shall be accomplished using Type D ..."
802	Sanitary Gravity Sewer Systems	802-5	II. Execution - 2.2 Pipe Installation - C.	**Add:** 11. Pipe Connection. A DFW/HPI non-shear coupling, Mission Flex Seal ARC Coupling, or approved equal shall be used between transitions of pipe materials and connections to existing pipe.
802	Sanitary Gravity Sewer Systems	802-15	III. Measurement for Payment - A.	**Add:** 4. Pipe bedding shall be Type III, minimum, for all sanitary gravity sewer pipes. Bedding shall be compacted granulated material (Gravel-Max size ¾") #57 Stone. Crushed Concrete is acceptable when approved by the Director of Engineering.
802	Sanitary Gravity Sewer Systems	802-15	III. Measurement for Payment - A.	**Add:** 5. Special Water Main Crossing. Measurement and payment shall be at the unit price per linear foot installed for each section of ductile iron sewer pipe installed and field measured in accordance with the detail shown on the plans."
802	Sanitary Gravity Sewer Systems	802-16	III. Measurement for Payment - B.	**Add:** 3. Pipe bedding shall be Type III, minimum, for all sanitary gravity sewer pipes. Pipe bedding shall be compacted granulated (gravel- max size ¾") #57. Crushed Concrete is acceptable when approved by the City."
802	Sanitary Gravity Sewer Systems	802-16	III. Measurement for Payment - B.	**Add:** 4. Payment for sewer laterals to include demolition, removal and disposal of existing laterals.

Section	Title	Page	Subsection	Modification
802	Sanitary Gravity Sewer Systems	802-18	III. Measurement for Payment - C.	**Add:** 6. Manholes. The unit price shall also include ConShield additive to be used in the concrete mix as per the manufacturer's recommendations on all concrete manhole sections and use of a geotextile fabric under the stone base.
802	Sanitary Gravity Sewer Systems	802-19	III. Measurement for Payment	**Add:** J. Connections to Proposed Manhole from Existing Pipe, Complete-in-Place. Connections to proposed manholes will be paid for each connection installed and satisfactorily tested. Payment will include materials, excavation, backfilling, dewatering, testing, and all other work incidental to the connection to the proposed manholes in accordance with the detail shown on the plans.
821	Sanitary Sewer Service Reconnections	821-3	II. Execution - 2.2 Installation - B.4.	**Deleted**
821	Sanitary Sewer Service Reconnections	821-4	II. Execution - 2.2 Installation - B.5	**Deleted**
821	Sanitary Sewer Service Reconnections	821-5	II. Execution - 2.2 Installation - B.6	**Add:** g. The same qualified lining contractor that performed the CIPP lining shall perform all Inserta Tee work.
822	Manhole Rehabilitation	822-12	II. Execution	**Renumber:** 2.7 FINAL ACCEPTANCE to 2.8 FINAL ACCEPTANCE
822	Manhole Rehabilitation	822-12	II. Execution	**Replace 2.7 with:** 2.7 STAINLESS STEEL INSERTS, For new and existing sanitary manholes inserts shall be Parson's vented stainless steel manhole inserts. Inserts for existing manholes shall be field measured for proper size and installed under existing dust cover, if applicable. The standard manhole frame sizes ranges from 21" to 26 ¾" OD.
822	Manhole Rehabilitation	822-12	III. Measurement for Payment	**Add:** C. Payment shall be made at the unit price bid of each. Parson's vented stainless steel manhole inserts installed and field verified. Included in the cost is the following: 1. Measuring of existing cover. 2. Removal/replacement of existing manhole and dust cover. 3. Installation of vented stainless steel manhole insert under dust cover, if applicable. Traffic control required to perform the required work.

STANDARD DETAILS

Modifications To the HRPDC Regional Construction Standard Details

Detail	Name	Notes and Modifications
DS-04	Curb Inlet/Catch Basin	**Add:** Note #3 – Plaster interior face of concrete wall with ½" 1:2 cement mortar mix. Note #4 – All concrete shall be air-entrained and 3500 PSI (minimum) design strength. **Revise** Bedding Material – 6" minimum compacted #57 stone.
EW-01	Pipe Bedding Details	**Sheet 2 Add:** Note 10. Crushed Concrete is acceptable when approved by the City. **Sheet 2 Delete and Replace Note 2 with:** Bedding shall be Compacted Granulated material (gravel-max size ¾") #57 stone choked with sand or 21A. **Sheet 1 Delete:** Type II Bedding.
EW-02	Payment Limits Trench excavation and Backfill	**Sheet 2 Add Note 3:** For pipes over 36-inches in diameter deduct volume of pipe from the computed volume of fill.
EW-03	Trench Width Detail for Payment of Contingent Items	**Sheet 1:** Delete Type II Bedding.
EW-04	Typical Trench Detail for HDPE (Type S) Storm Drain Pipe	**Sheet 2 Add Note 7:** HDPE storm pipe shall not be used in the City's Right-of-Way, unless approved by the City.
SS-01	Standard Precast Concrete Manhole w/Extended Monolithic Base	**Revise:** Detail note "Support Pipe" and Manhole on 6" Min. of Stone with Woven geotextile fabric. (Greater Depths may be required in poor soils.)" **Revise:** Note #1 "Precast Concrete Manhole to be in Compliance with ASTM C-478, 4000 psi." Conshield additive is required in all concrete.
SS-02	Precast Concrete Shallow Manhole	**Revise:** Detail note "Support Pipe and Manhole on 6" Min. of Stone with Woven geotextile fabric. (Greater Depths may be required in poor soils.)" Conshield additive is required in all concrete.
SS-03	Sanitary Sewer Straddle Manhole	**Revise:** Detail note "Support Pipe and Manhole on 6" Min. of Stone with Woven geotextile fabric. (Greater depths may be required in poor soils.)" **Revise:** Note #1 "Precast Concrete Manhole to be in Compliance with ASTM C-478, 4000 psi" Conshield additive is required in all concrete
SS-09	Sanitary Sewer Manhole Casting (24")	**Add:** Detail note: Parson's vented stainless steel manhole inserts.
SS-11	Sanitary Service Lateral Clean Out Frame and Cover	**Add Note:** 5. Frame and cover shall be painted fluorescent green.
SS-14	Sanitary Sewer Service Connection	**Add Note:** 5. Cap shall be PVC and inverted.
SS-16	Deep Sanitary Sewer Service Connection	**Revise:** Detail note "Compacted #57 Stone."
SS-17	Forced Main Saxophone	**Add:** Detail note "Coat Manhole with epoxy"
SS-19	Manhole Insert	**Add:** Detail note: Parson's vented stainless steel manhole inserts

Detail	Name	Notes and Modifications
CI-08	Residential Entrance w/out Curb and Gutter	**Remove and Replace with:** Newport News Residential Concrete Entrance, Streets w/o Curb and Gutter, Plate 4422
RC-01	Pavement Patching For Flexible Pavement	**Delete Notes and Replace with:** NOTES: 1.) Minimum pavement sections will be as shown in the attached TABLE 1 – Pavement Design below. 2.) Total utility patch asphalt depth shall be the total asphalt depth shown in TABLE 1 or the total existing pavement depth whichever is greater. Surface asphalt (SM-9.5) of depth shown in TABLE 1.0 shall be provided. 3.) See special provision sections 317.II Execution.2.1 General F thru J and 317.III Measurement for Payment. F. for required extents of restoration. 4.) Backfill to be placed and compacted according to specifications section 303. Backfill shall be select material Type I with a minimum CBR of 20 as specified in the VDOT Road & Bridge Specifications. 5.) Backfill material per specifications section 200.

Table 1 -	Pavement Design			
Roadway Classification	Aggregate Base VDOT Type 1, 21A	Surface Mix (SM-9.5)	Base Mix (BM-25)	Total Asphalt Depth
Major Arterial	8"	2"	10"	12"
Minor Arterial or Collector Street	8"	1.5"	4"	5.5"
Residential or Private Street	8"	1.5"	2.5"	4.0"

The following revised standard details from the Newport News Design Criteria Manual are hereby made a part of the Newport News Special Provisions to the HRPDC Regional Construction Standards.

Plate 4102, Plate 4103, Plate 4105, Plate 4107, Plate 4201, Plate 4202, Plate 4203, Plate 4204, Plate 4205, Plate 4206, Plate 4207, Plate 4424, Plate 4425, Plate 4426, Plate 4427, Plate 4435