

General Conditions

A. Contractor Experience:

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

B. Work on Saturday, Sunday and City Holiday:

Time is of the essence on this contract. In cases where the Contractor chooses 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 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 (Latest Edition)**

Section 102, BID REQUIREMENTS AND CONDITIONS is replaced in its entirety by the City of Newport News Invitation for Bids, of which these Special Provisions are a part.

In Section 101, DEFINITIONS OF TERMS

ADD as follows:

1.11.A. Contract Documents (continued) The Contract Documents are complementary and what is called for by one shall be as binding as if called for by all. In case of discrepancies, specifications shall govern over plans, supplemental specifications shall govern over standard Specifications and special provisions shall govern over all specifications and plans. In case of any ambiguity or dispute over interpretation of the provisions of the Contract Documents, the decision of the Director of Engineering shall be final.

1.14.A. Contractor (continued): In case of work being done under permit issued by the City, the permittee shall be construed to be the Contractor.

2.0 Terms: The words directed, required, permitted, ordered, instructed, designated, considered necessary, prescribed, approved, acceptable, and satisfactory or words of like import refer to actions, expressions, and prerogatives of the Engineer. Command type sentences are used throughout the Contract Documents. In all cases the command expressed or implied is directed to the Contractor.

2.1 Acts of God: An act of God is to be construed to mean a flood, cloudburst, tornado, hurricane or other phenomenon of nature of catastrophic proportions of intensity but not normal rain or snowfall.

2.2 Advertisement, Notice to Contractors: The public announcement inviting bids for work to be performed or materials to be furnished.

2.3 Approved Equal: A product component or process whose use in or on a particular project is specified as a standard for comparison purposes only. The "equal" product component or process shall be the same or better than that named in function, performance, reliability, quality and general configuration. Determination of equality in reference to the project design requirements will be made by the Engineer.

2.4 Attorney: The City Attorney as appointed by the Incorporated City of Newport News.

2.5 Authorized Representative: Any person persons or firms duly authorized by the City.

2.6 Calendar Day: Any day shown on the calendar beginning and ending at midnight.

2.7 City: The incorporated City of Newport News Virginia acting through its duly authorized officials, officers, employees, or representatives.

2.8 Codes: Applicable local State and Federal codes under which the work is to be performed.

2.9 Contract: the Agreement, a part of the Contract Documents which stipulates conditions on which the work is agreed to be performed, executed by the City and the Contractor.

2.10 Contract Item: A specific unit of work for which a price or basis of payment is provided in the contract.

2.11 Director of Engineering: The duly appointed Director of Engineering for the Incorporated City of Newport News or his authorized representatives. The decision of the Director of Engineering shall be final.

2.12 Extra Work: An item of work not provided for in the Contract as awarded but determined by the Engineer as essential to the proper completion of the contract within its intended scope.

2.13 Inspector: The authorized representative of the Owner or Engineer entrusted with making detailed inspections of the work or materials.

2.14 Labor and Material Payment Bond: The form of security approved by the City, furnished by the Contractor and his surety, to guarantee the payment of all persons supplying labor and materials in the prosecution of the work in accordance with the terms of the Contract Documents.

2.15 Liquidated Damages: The amount prescribed in the Contract Documents to be paid the City, or to be deducted from any payments due or to become due the Contractor for each day delay in completing the whole or any specified portion of the work beyond the time allowed in the Contract Documents.

2.16 Lump Sum: A method of payment providing for one all inclusive cost for the work or for a particular portion of the work.

2.17 Performance Bond: The form of security approved by the City, furnished by the Contractor and his surety, guaranteeing the complete and faithful performance of all the obligations and conditions placed on the Contractor by the Contract Document.

2.18 Plans: The drawings, profiles, cross-sections, working drawings, and supplemental drawings, or reproductions thereof, which show the location, character, dimension, and details of the work to be performed. Plans may either be bound in the same book as the balance of the Contract Documents or bound in separate sets, and are a part of the Contract Documents, regardless of the method of binding. Plan is used interchangeably with drawing and construction drawing throughout these documents.

2.19 Proposal: The offer of the bidder to perform work at the prices quoted, submitted on the City official proposal form, properly signed and guaranteed.

2.20 Proposal Guaranty, Bid Bond: Cash, bond, cashier's or certified check accompanying the proposal submitted by the bidder as a guaranty that he will enter into contract with the City for performance of the work if the contract is awarded to him.

2.21 Rights of Way: A general term denoting land, property, or interest therein, acquired for or devoted to public use.

2.22 Roadway: That portion of the highway included between curbs, gutters, or ditches intended primarily for vehicular traffic, and including all pertinent structures and other features necessary for proper drainage and protection.

2.23 State: The Commonwealth of Virginia.

2.24 Surety: Any individual, firm, or corporation authorized to do business in the State, bound with and for the Contractor for the acceptable performance, execution and completion of the work and for the satisfaction of all obligations incurred.

2.25 Unit Price: A contract item of work providing for payment based on a specified unit of measurement; e.g. linear foot or cubic yard.

2.26 Utility: Tracks, overhead or underground wires, pipelines, conduits, ducts, or structures, owned, operated, or maintained in or across public or private rights of way or easements.

In Section 103 BID AWARD

REVISE Para 2.1 as follows: 2.1 Within 10 calendar Days after Notice of Award, the Contractor shall sign and deliver four original copies of the Agreement and attached documents to the Owner with the required Bid Security and Certificate of Insurance. Within 30 Days thereafter the Owner shall deliver one fully signed copy to the Contractor.

REPLACE Para 2.2 as follows: 2.2 Failure on the part of the bidder to whom the contract is awarded to execute the contract and furnish the necessary bonds and insurances within the time specified in Para 2.1 above shall be just cause for cancellation of award, withdrawal of the contract and forfeiture of the proposal guaranty. The forfeited proposal guaranty, whether in form of a bond, check or cash deposit, will be paid to the City Treasurer, not as a penalty but as liquidated damages. The award may then, at the discretion of the City, either be made to the next lowest qualified bidder or re-advertised.

ADD: 2.3 Upon the execution of the contract and approval of the bond, the proposal guaranty will be returned to the successful bidder. The proposal guaranty of unsuccessful bidders will be returned to the person or persons making the proposal immediately after the contract and bond have been executed.

ADD: 4.3.I. The Contractor is notified that it is the sole responsibility of the Contractor to protect the property of the City and others, by insurance or otherwise, against any special hazards such as Fire, Boiler and other Explosion, Collapse, Blasting and Underground hazards (X C U), which may be encountered in the performance of this contract.

ADD 4.3.J. The contractor shall have adequate Fire and Standard Extended Coverage Insurance including vandalism and malicious mischief (V & MM) with a company or companies acceptable to the City, in force on the project. The insurance should provide protection at all times against loss by the City and Contractor until final acceptance of the work.

ADD 4.3.K. The insurance and endorsement required by this paragraph shall be kept continuously in force during the term of this contract. Failure to keep such insurance and endorsement continuously in force will subject the contract to termination for cause.

In Section 104 SCOPE OF WORK

ADD as follows:

1.3 The Contractor shall furnish all labor, materials, equipment, tools, transportation and supplies required to complete the work in accordance with the plans, specifications and terms of the contract.

1.4 The Contractor shall perform all work in accordance with the lines, grades, typical cross sections, dimensions and other data shown on the plans or as modified by written orders of the Engineer, and all other work determined by the Engineer as necessary to proper prosecution and completion of the project.

5.4 Changed conditions that occur as a result of any negligence or inattention on the part of the Contractor or his agent shall not be considered eligible for extra payment.

If the City shall determine the conditions to be such as to justify a claim for additional compensation, it may provide for additional payment by unit prices as bid or provided in a schedule of values, or by any equitable arrangement mutually agreed upon by the City and Contractor. In any event, the Contractor shall not be relieved, unless permitted to do so by the City, from his obligation of resuming construction operations pending decision as to the validity of a claim, or pending the execution of a negotiated agreement to cover additional costs if a claim shall be recognized under the provisions of this section of the specifications.

7.6 The Contractor shall restore and bear the cost of any public or private improvement, facility or structure within the right-of-way which is damaged or injured directly or indirectly by or on account of any act, omission or neglect in the execution of the work and which is not designated for removal and is visibly evident or correctly shown on the plans. The Contractor shall restore to a condition substantially equivalent to that existing before such damage or injury occurred, by repairing, rebuilding or otherwise affecting restoration thereof, or if this is not feasible, makes a suitable settlement with the owner of the damaged property, all at no expense to the City.

VIII. PROTECTION OF PROPERTY

8.1 The Contractor shall protect all public and private property insofar as it may be endangered by operations and take every reasonable precaution to avoid damage to such property.

8.2 The Contractor shall give reasonable notice to occupants of buildings on property adjacent to the work to permit the occupants to remove vehicles, trailers and other possessions as well as salvage or relocate plants, trees, fences, sprinkler systems or other improvements in the right-of-way which are designated for removal or which might be destroyed or damaged by work operations.

8.3 The Contractor shall protect all designated trees and planted areas within the right-of-way or easements using methods approved by the Owner, and shall exercise care and conduct operations so as to minimize damages to other planted areas.

In Section 105 CONTROL OF WORK

REVISE Para 2.1 as follows:

2.1 The Owner has furnished to the Contractor a digital copy of the Contract Documents. The contractor shall make provision to obtain, at his own expense, as many hard copies of the contract documents as may be needed for the execution of the work.

ADD as follows:

4.1.A. The Contractor shall revise and update the submittal schedule on a monthly basis as necessary to reflect conditions and sequences. Promptly submit the revised schedules to the Engineer for review and comments.

4.4.A. Consecutively number all submittals. Accompany each submittal with a letter of transmittal containing all the pertinent information required for identification and checking of submittals.

4.4.B. On the first page of each copy of each submittal, and elsewhere as required for positive identification, clearly indicate the submittal number in which the item was included.

4.4.C. Resubmittals: When an item is resubmitted for any reason, transmit under a new letter of transmittal and with the same submittal number marked revised.

4.4.D. Submittal log: Maintain an accurate submittal log for the duration of the contract, showing current status of all submittals at all times. Make the submittal log available for the Engineer's review upon request.

4.4.E. Grouping of submittals: Unless otherwise specified, make all submittals in groups containing all associated items to ensure that information is available for checking each item when it is received. Partial submittals may be rejected as not complying with the provisions of the Contract Documents and the Contractor shall be strictly liable for all delays so occasioned.

4.6.A. Delays: Delays caused by tardiness in receipt of submittals will not be an acceptable basis for extension of the contract completion date.

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.

9.2.A.1. Any information shown as to the location of existing water courses, drains, sewer lines or utility lines which cross or are adjacent to the project, has been compiled from the best available sources, but is not guaranteed to be accurate. The Contractor shall immediately notify the Engineer of any utility, either overhead or underground, encountered during construction so that appropriate steps can be taken without additional cost to the City for delay. The Contractor shall make excavations and borings ahead of work as necessary, to determine the exact location of interfering utilities or underground structures.

9.2.C.1. Utility companies responsible for facilities located within the right of way will be requested to complete any installation, relocation, repair, or replacement prior to the commencement of work by the Contractor. However, when this is not feasible or practicable or the need for such work was not foreseen, such utility owners or the City shall have the right to enter upon the right of way and upon any structure therein for the purpose of making new installations, changes or repairs. The Contractor shall conduct operations so as to provide the time needed for such work to be accomplished during the progress of the improvement.

10.4 The Contractor shall do all the work and furnish all labor, materials, equipment, tools, and machines necessary for the performance and completion of the project in accordance with the contract documents within the specified time.

10.5 The Contractor shall assume all responsibility for the work. As between the Contractor and the City, the Contractor shall bear all losses and damages directly or indirectly resulting to him, to the City or to others on account of the character of performance of the work, unforeseen difficulties, accidents or any other cause whatsoever. The Contractor shall assume the defense and indemnify and save harmless the City, its officers and employees from all claims, liability, loss, damage and injury of every kind, nature and description, directly or indirectly resulting from the Contractor's activities in the performance of the contract, the ownership, maintenance or use of motor vehicles in connection therewith, or the acts, omissions, operations, or conduct of the Contractor or any subcontractor under the contract, or in any way arising out of the contract, irrespective of whether fault is the basis of the liability of claim, and irrespective of whether any act, omission or conduct of the City connected with the contract is a condition of contributory cause of the claimed liability, loss, damage or injury and irrespective of whether act, omission or conduct of the Contractor or subcontractor is merely a condition rather than a cause of the claim, liability, loss, damage or injury. The Contractor shall not be liable for, nor be required to defend or indemnify the City relative to claims for damage or damages resulting solely from acts or omissions of the City, its officer, material and construction details of plans, forms, shoring, falsework, and other structures built by the Contractor but not a part of the permanent project

shall meet the approval of the Engineer, but such approval shall not relieve the Contractor from responsibility for their safety and sufficiency.

10.6 The Contractor shall be responsible for all expense involved in making any required changed in the plans or specifications to accommodate a substitution approved by the Engineer for the convenience of the Contractor or to circumvent an unforeseen difficulty in obtaining a specified article, agents or employees.

10.7 Utilities may not be located as shown or marked as the location may have been established from records and not from on-site inspection. The Contractor shall notify utilities at least 48 hours prior to commencing work of the date on which work will commence, in order to give the utilities a reasonable opportunity to establish the location of utilities by on-site examination prior to commencing the work. The contractor shall adhere to the above notification requirements during the progress of the work where the work is such that location of utilities is necessary as the work progresses. Damage or claims resulting from improper or insufficient notification of the affected agencies shall be the responsibility of the Contractor.

12.5 In the event any defect in work is of a minor nature and the Engineer determines that it is not of such consequence as to result in a dangerous or undesirable condition, the City shall have the right to retain such work and make such deductions in the payment therefore as determined reasonable and in the public interest. Such determination by the City shall be final.

15.3 It is mutually agreed between the parties to the contract that no payment made under the contract except the final payment shall be evidence of the performance of the contract, either wholly or in part, and that no payment shall constitute an acceptance of unauthorized or defective work or improper material. The acceptance of the contract work shall not prevent the City from making claim against the Contractor for any defective work if same is discovered within the guaranty period.

16.1.1 Claims for unauthorized extra work: If the contractor performs work which he considers is not included under any of the items of the contract and which has not been specifically ordered in writing by the City as extra work, he may make a claim for extra payment for such work by immediate oral notice followed by written notice within seven (7) days after the occurrence to the City, with detailed cost data to support his claim within thirty (30) days after the said work is performed.

16.2.1 If unable to reach agreement under any of the foregoing procedures, the City may direct the Contractor to proceed with the work. Payment shall be as later determined. Although not to be construed as proceeding under extra work provisions, the contractor shall keep and furnish records of all disputed work.

In Section 106, CONTROL OF MATERIAL

ADD:

IV OWNER FURNISHED MATERIALS

4.1 Any materials furnished by the City will be delivered or made available to the Contractor at the locations specified or shown. The cost of handling and placing such material after they are delivered to the Contractor will be considered as included in the contract price for the item in connection with which they are used. The Contractor will be held responsible for all material delivered to the Contractor by the City and deductions will be made from any monies due to make good any shortages, deficiencies, and damages which may occur after such delivery and for any demurrage charges.

In Section 107 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

ADD 3.17 The *Virginia Work Area Protection Manual 2011 Edition* (or most current) and City Supplement in conjunction with the *Federal Highway Administration 2009 Edition* (or most current) of the *Manual on Uniform Traffic Control Devices*, Part 6, "Temporary Traffic Control," is hereby adopted by reference in these Standards as the City of Newport News temporary traffic control standards, except as specifically amended or supplemented by the contract documents.

ADD 3.18 Whether specified as part of a project's plan or contract documents, or performance of a maintenance operation, or performance of utility work within the right of way, the provisions of the *2011 Virginia Work Area Protection Manual* and City Supplement shall be used for the establishment of temporary traffic control as well as any modification to an approved Traffic Control Plan

REPLACE Para 7.5 as follows:

7.5 All equipment warranties shall be one year from the date of substantial completion, and no other limitation of this warranty is acceptable. This provision specifically excludes any manufacturer or supplier's practice, policy, subordination, re-insurance and any other circumstance that might be construed as limiting the warranty period.

In Section 108 PROSECUTION AND PROGRESS OF WORK

NO CHANGES

In Section 109 MEASUREMENT AND PAYMENT

RENUMBER the existing text Para 1.5 text as 1.5.A

ADD as follows:

1.5.B It is the intent of the contract that materials shall be managed by the contractor such that they will be installed promptly on delivery. Common materials (such as pipe, fittings, manholes,

flooring, block, tile, finishes, windows, lumber and the like) will not be considered for payment as stored materials.

1.5.C Specialty items of significant value and lead time (such as major equipment items, significant custom fabrications and the like) or otherwise unique and costly items will generally be considered for payment as stored materials under the following conditions:

1. The contractor shall explain why the material could not be scheduled and delivered for prompt use.
2. The value of the stored material (at supplied cost, not at installed cost) should generally exceed \$30,000 for each class of item (such as stored HVAC controls; stored drinking water pumps) requested for payment.
3. Any potential request for stored materials payment should be identified initially when the schedule of values is submitted so advance consideration can be given. A response on such requests will be made within 10-days. Requests initially submitted with an invoice may delay invoice processing.
4. All requests will be subject to the location, storage, insurance and documentation requirements as well as the Owner's discretion to not pay for a particular stored material as described in 1.5.A above.

In 1.7.A The Retainage shall be five (5) percent.

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 6th Edition

Section	Title	Page	Subsection	Modification
200	Products and Materials	200-21	V. Products - 5.4 Clearing and Grubbing - A.	Delete and Replace with: Temporary and /or tree protection fencing shall be as shown on the Drawings or as directed by the Owner and in accordance with Paragraph V.5.25 of the Virginia Erosion and Sedimentation Control Manual, as appropriate.
200	Products and Materials	200-49	V. Products - 5.10 Sanitary Force Main Systems - A.3.	Revise: "3. DI pipe shall be Class 52 minimum thickness classification..."
200	Products and Materials	200-50	V. Products - 5.10 Sanitary Force Main Systems - B.2.	Revise: "2.PVC pipe shall be less than 3" in diameter and shall be schedule 80 PVC with copper wire wrap and metal detector tape."
200	Products and Materials	200-50	V. Products 5.10 Sanitary Force Main Systems - B.4.	Deleted
200	Products and Materials	200-51	V. Products - 5.10 Sanitary Force Main Systems - B.5	Renumber: note 5 to 4
200	Products and Materials	200-51	V. Products - 5.10 Sanitary Force Main Systems - B.6.	Renumber: note 6 to 5 Delete: "(e.g. 4 CI), DR18, AWWA Pressure Class (PC150)."
200	Products and Materials	200-51	V. Products - 5.10 Sanitary Force Main Systems - C.	Deleted
200	Products and Materials	200-51	V. Products - 5.10 Sanitary Force Main Systems - D.	Add: "4. To be used only for directional drill applications that are approved by the Director."
200	Products and Materials	200-57	V. Products - 5.11 Sanitary Gravity Sewer Systems - A.3.	Revise: 3."DI pipe for Gravity Sewer Systems shall be minimum thickness Class 52 ..."
200	Products and Materials	200-58	V. Products - 5.11 Sanitary Gravity Sewer Systems - B.5.	Revise: "5., All PVC service lines 4" and 6" in diameter shall conform to ASTM D3034, SDR26."
200	Products and Materials	200-59	V. Products - 5.11 Sanitary Gravity Sewer Systems - C.	Deleted
200	Products and Materials	200-66	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
200	Products and Materials	200-84	5.21.1.F Manhole Rehabilitation using Cementitious Products	Add: b.1. Infiltration Control Mix shall be Permacast Dry, Permacast Plug or approved equal.

Section	Title	Page	Subsection	Modification
200	Products and Materials	200-84	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	200-84	5.21.1.F Manhole Rehabilitation using Cementitious Products	Delete: d.1 Standard.Liner Mix.
200	Products and Materials	200-85	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	200-85	5.21.1.F Manhole Rehabilitation using Cementitious Products	Add: d.2.b. High Performance Mix shall include Con(MIC)Shield admixture.
302	Drainage Structures	302-2	II. Execution - 2.1 Procedures - C.	Delete and Replace with: Bedding stone depth shall be 6-inches for pipes and structures. The embedment of the pipes shall continue to the pipe centerline, type III bedding and choked with sand or crushed stone VDOT Type 21A. Undercut excavation and the replacement of excavated undercut material shall be as specified in section 303
302	Drainage Structures	302-3	II. Execution - 2.1 Procedures - D.2.c.(ii)	Delete: The depth of bedding material shall be at least 6-inches. Replace with: The initial depth of bedding material shall be at least 6-inches with the embedment of the pipe continuing to the pipe centerline, type III bedding and choked with sand or crushed stone VDOT Type 21A.
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 <u>VDOT Road & Bridge Specifications</u> .
303	Earthwork	303-10	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 <u>VDOT Road & Bridge Specifications</u> to a depth of 12" above the pipe.
303	Earthwork	303-10	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 City."
303	Earthwork	303-10	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 <u>VDOT Road & Bridge Specifications</u> .
303	Earthwork	303-14	III. Measurement for Payment - A.	Add: "7. Pavement Demolition. Unit price shall include saw cutting all pavement".

Section	Title	Page	Subsection	Modification
303	Earthwork	303-16	III. Measurement for Payment – C.4.and C.6	Add: For pipes over 36-inches in diameter deduct volume of pipe from the computed volume of fill.
315	Asphalt Concrete Pavement – Non Superpave	315-14	III. Measurement for Payment - B.	Add: “1. Asphalt Concrete. Asphalt concrete unit price shall include prime and/or tack coat”.
317	Pavement Patching	317-2	II Execution, 2.1 General	<p>ADD:</p> <p>F. Patching for Small Excavations (2' x 2' or smaller) and General Excavations (no dimension greater than 20'):</p> <ol style="list-style-type: none"> 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 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. <p>G. Restoration for Trenches (any dimension greater than 20'):</p> <ol style="list-style-type: none"> 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. <p>H. Special Rules for restoration of pavement cut(s) installed within 4 years of roadway construction/ reconstruction.</p> <ol style="list-style-type: none"> 1. Cuts are generally prohibited, but may be allowed with mill and pave restoration as described below: <ol style="list-style-type: none"> 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. <p>(Continued on following page)</p>

				<p>c. On divided roadways, the road width is measured from curb to curb (including median curbs), or edge of pavement if curb not present</p> <p>I. Cores (6" diameter approximately) 1. Cores may be epoxyed back into the core hole if material is in good condition.</p> <p>J. Pavement Markings 1. All pavement markings must be restored in accordance with section 704.</p>																						
Section	Title	Page	Subsection	Modification																						
317	Pavement Patching	317-3	III Measurement for Payment	<p>ADD:</p> <p>F. City Pavement Patching Cost Participation</p> <p>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.</p> <p>2. The City's Pavement Condition Index (PCI) can be found at http://nngov.maps.arcgis.com/apps/webappviewer/index.html?id=e9ac2f4aaef64b4e883e3e7ca912f94d</p> <p>2. The City will not participate in patching costs for Small and General Excavations regardless of Pavement Condition Index (PCI).</p> <p>3. For Trenches:</p> <p>a. Where PCI is 65 or higher, the City will not participate in milling and paving costs.</p> <p>b. Where PCI is 10 or less, the City will pay 100% of milling and paving costs.</p> <p>c. For PCI from 15 to 60, the City will pay a percentage of milling and paving costs as set forth below:</p> <table border="0"> <thead> <tr> <th>PCI</th> <th>City Participation</th> </tr> </thead> <tbody> <tr><td>15</td><td>95%</td></tr> <tr><td>20</td><td>90%</td></tr> <tr><td>25</td><td>80%</td></tr> <tr><td>30</td><td>70%</td></tr> <tr><td>35</td><td>60%</td></tr> <tr><td>40</td><td>50%</td></tr> <tr><td>45</td><td>40%</td></tr> <tr><td>50</td><td>30%</td></tr> <tr><td>55</td><td>20%</td></tr> <tr><td>60</td><td>10%</td></tr> </tbody> </table>	PCI	City Participation	15	95%	20	90%	25	80%	30	70%	35	60%	40	50%	45	40%	50	30%	55	20%	60	10%
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Section	Title	Page	Subsection	Modification
505	Guardrail and Steel Median Barriers	505-3	II. Procedures	Delete and Replace paragraph with: Reuse guardrail that has maintained its original shape and is suitable for reuse may be used with permission in writing from the Owner. When necessary, reuse guardrail shall be rebored to the dimensions shown on the standard drawings. Reuse guardrail that is damaged or lost because of the Contractor's negligence shall be replaced at the Contractor's expense.
505	Guardrail and Steel Median Barriers	505-3	II. Procedures	Delete and Replace paragraph with: Reuse guardrail posts and blockouts may be used with permission in writing from the Owner provided they conform to the requirements of the standard drawings and these specifications.
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, <i>Recommended Procedures for the Safety Performance Evaluation of Highway Features</i> ."
512	Maintaining Traffic	512-1	<i>Entire Section</i>	Define: It is to be understood that every mention of the <i>Virginia Work Area Protection Manual</i> 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.
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 - C.	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. <u>Signal pole foundations shall be drilled unless otherwise shown on the plans, contract documents or as approved in writing by the Owner.</u>

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 <u>both</u> 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, <u>free of sharp edges</u> , attached to the conductor <u>with nylon cable ties</u> . 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 <u>free of sharp edges</u> 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, 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. <u>High-density PE</u> 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, <u>all</u> 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.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, <u>all conduit runs with conductors installed</u> shall be equipped with either a pull rope or tape having a tensile strength of at least 1,100 pounds <u>and less than 15 percent elongation at yield</u> . Twelve inches of pull tape or rope shall be <u>secured inside of the junction box at each end</u> ."
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	700-13	II. Execution - H.2.	Replace: " <u>All conduit to be installed under a proposed roadway or driveway shall be high-density PE</u> . 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 <u>metal</u> pipe sleeve for installation of <u>PVC</u> conduit at no additional cost to the Owner."

Section	Title	Page	Subsection	Modification
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 <u>shall</u> mark the locations on the roadway by installing premarkings. <u>Premarkings shall be reviewed and approved by the Owner prior to permanent marking installation.</u> 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.3.b.	Revise: "b. Bedding shall be compacted granulated material (Gravel-Max size ¾") #57 Stone. Crushed Concrete is acceptable when approved by the City."
802	Sanitary Gravity Sewer Systems	802-15	III. Measurement for Payment - A.	Add: "4. Sanitary Main and Laterals. All PVC pipe and fittings shall be ASTM 3034, SDR 26. Also included in unit price shall be allaying of dust during construction".
802	Sanitary Gravity Sewer Systems	802-15	III. Measurement for Payment - A.	Add: "5. Pipe bedding. Construction shall use Type III pipe bedding stone for all sanitary gravity sewer pipe and sewer laterals. The price of bedding will be included with the unit price of pipe".
802	Sanitary Gravity Sewer Systems	802-15	III. Measurement for Payment - A.	Add: "6. Special Water Main Crossing. Measurement and payment shall be at the unit price per linear foot installed for each section of D.I. sewer lateral 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 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".
802	Sanitary Gravity Sewer Systems	802-17	III. Measurement for Payment - C.3.	Add: "h. Frame and Cover. Complete depth of manhole".

Section	Title	Page	Subsection	Modification
802	Sanitary Gravity Sewer Systems	802-17	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	802-18	III. Measurement for Payment	Add: "J. Sewage Bypass. The sewage flow is estimated to be under 2 MGD and bypass operation shall be included with the pipe cost".
802	Sanitary Gravity Sewer Systems	802-18	III. Measurement for Payment	Add: "K. 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".
813; November 2012 Update#3;	Pipe Rehabilitation by Cured-in-Place Method	813-11	II. Execution - 2.3 Sealing at Manholes - A.	When lining storm sewers, Add: In the event that an existing storm pipe protrudes six inches or more than 10% of the structure length into the structure; the existing pipe shall be cut flush or nearly flush to the wall of the drainage structure. Once the protruding pipe is removed the bench and invert shall be repaired. If the intruding pipe cannot be cut and removed from the structure, with approval from the Engineer, the contractor will remove the top half of the pipe and provide a bench and invert as necessary.
813; November 2012 update #3	Pipe Rehabilitation by Cured-in-Place Method	813-12	II. Execution - 2.3 Sealing at Manholes - B.	When lining storm sewers, Add: The Contractor shall inspect the existing invert and benches prior to liner installation. The Contractor shall repair any existing benches and inverts that are damaged prior to or during the liner installation. Reshape the invert as specified in VDOT Road and Bridge Standards, latest edition, for IS-1 (Standard Method of Shaping Manhole and Inlet Inverts).
818	Point Repair by Excavation	818-4	III. Measurement for Payment - 3.2 Measurement of Quantities - F.	Add: "26. 8"x4" PVC SDR 26 wye and non-shear couplings as required".
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

Section	Title	Page	Subsection	Modification
821	Sanitary Sewer Reconnections	821-5	II. Execution - 2.2 Installation - B.6	Revise: "e. Reinstatements by the Inserta Tee method that Do not produce a watertight seal between the lateral and the liner shall be corrected with installation of a LMK "T" liner by a licensed manufacturer approved installer at the contractor's expense."
821	Sanitary Sewer Service Reconnections	821-5	II. Execution - 2.2 Installation - B.6	Add: "f. The same qualified lining contractor that performed the CIPP lining shall perform all inserta tee work."
822	Manhole Rehabilitation	822-7	II. Execution	Add: "2.8. Parson's vented stainless steel manhole 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 3/4" OD."
822	Manhole Rehabilitation	822-8	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."
822	Manhole Rehabilitation	822-8	III. Measurement for Payment	Add: "D. Bypass pumping shall be considered incidental work".

STANDARD DETAILS

Modifications To the HRPDC Regional Construction Standard Details

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

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