

INTRODUCED: November 14, 2016

AN ORDINANCE No. 2016-277

To authorize the Chief Administrative Officer, for and on behalf of the City of Richmond, to execute an Agreement between City of Richmond and Commonwealth of Virginia, Department of Transportation for Adjustment of Water Facilities between the City of Richmond and the Virginia Department of Transportation to facilitate the replacement of existing water utility facilities and an existing bridge as part of the Route 5 (East Main Street) Bridge Replacement over Norfolk Southern Railroad project.

Patron – Mayor Jones

Approved as to form and legality
by the City Attorney

PUBLIC HEARING: DEC 12 2016 AT 6 P.M.

THE CITY OF RICHMOND HEREBY ORDAINS:

§ 1. That the Chief Administrative Officer, for and on behalf of the City of Richmond, be and is hereby authorized to execute an Agreement between City of Richmond and Commonwealth of Virginia, Department of Transportation for Adjustment of Water Facilities between the City of Richmond and the Virginia Department of Transportation to facilitate the replacement of existing water utility facilities and an existing bridge as part of the Route 5 (East Main Street) Bridge Replacement over Norfolk Southern Railroad project. The Agreement

AYES: 9 NOES: 0 ABSTAIN: _____

ADOPTED: DEC 12 2016 REJECTED: _____ STRICKEN: _____

between City of Richmond and Commonwealth of Virginia, Department of Transportation for Adjustment of Water Facilities shall be approved as to form by the City Attorney and shall be substantially in the form of the document attached to this ordinance.

§ 2. This ordinance shall be in force and effect upon adoption.



CITY OF RICHMOND
INTRACITY CORRESPONDENCE

O & R REQUEST

OCT 21 2016

Chief Administration Office
City of Richmond

4-5816

O&R REQUEST

DATE: October 19, 2016 EDITION: 1

TO: The Honorable Members of City Council

THROUGH: Dwight C. Jones, Mayor

THROUGH: Selena Cuffee-Glenn, Chief Administrative Officer

THROUGH: John Buturla, Deputy Chief Administrative Officer

FROM: Robert Steidel, Director of Public Utilities

RE: ROUTE 5 (East Main St.) Bridge Replacement - VDOT\COR Agreement for Adjustment of Water Facilities

ORD. OR RES. No. _____

PURPOSE: To authorize the Chief Administrative Officer to enter into an agreement with the Virginia Department of Transportation ("VDOT") concerning water utility improvements associated with a project to replace the Route 5 East Main Street bridge over the Norfolk Southern Railroad, State Project #:0005-127-957\UPC#107867, (the "Project").

REASON: Pursuant to VDOT policy on utility relocations for State funded projects, the Project affects existing water utilities located on the bridge and the State is responsible for 100% of utility costs associated with the Project.

RECOMMENDATION: Department of Public Utilities recommends adoption of the proposed Ordinance.

BACKGROUND: As part of the VDOT Route 5 East Main Street bridge replacement project over the Norfolk Southern Railroad, VDOT proposes to replace the existing bridge, including the existing City water utility facilities attached to the bridge. As part of the project, VDOT's contractor will install a new water utility line with the construction of the new bridge. Once the work is complete, the City of Richmond will retain ownership of the new water utility line.

FISCAL IMPACT / COST: Total Funding Required = \$1,000 (DPU inspections) (funded in FY17 Water CIP)

FISCAL IMPLICATIONS: VDOT will be responsible for 100% of the cost of replacing the City water utility facilities.

BUDGET AMENDMENT NECESSARY: None

REVENUE TO CITY: None

DESIRED EFFECTIVE DATE: February 13, 2017

REQUESTED INTRODUCTION DATE: November 14, 2016

CITY COUNCIL PUBLIC HEARING DATE: February 13, 2017

REQUESTED AGENDA: Consent Agenda

RECOMMENDED COUNCIL COMMITTEE: Land Use, Housing, and Transportation

CONSIDERATION BY OTHER GOVERNMENTAL ENTITIES: None

AFFECTED AGENCIES: Department of Public Utilities, Department of Budget and Strategic Planning, Department of Finance, Department of Public Works.

RELATIONSHIP TO EXISTING ORD. OR RES.: Ordinance No. 2015-184-189: To Authorize the Chief Administrative Officer (CAO), for and on behalf of the City of Richmond, to execute a City\State project administration agreement for the Route 5 (East Main Street) Bridge Replacement Project over Norfolk Southern Railroad (NSSR), designated as Project 0005-127-957 and UPC # 107867.

REQUIRED CHANGES TO WORK PROGRAM(S): None

ATTACHMENTS:

- 1) Agreement between City of Richmond and Commonwealth of Virginia, Virginia Department of Transportation for Adjustment of Water Facilities.
- 2) Six (6) one-half size plan sheets numbered 37(1) through 37(5) of the State's construction plans for Project 0005-127-957, C-501 (UPC#107867).

STAFF: Jonathan Cosby, Engineer III - DPU Technical Services (646-7849)
Robert Stone, Engineer IV - DPU Technical Services (646-8557)
Rosemary Green, Deputy Director II - DPU Water, Wastewater, Technical Services (646-8517)
Robert Steidel, Director Public Utilities (646-1378)

AGREEMENT
between
CITY OF RICHMOND
and
COMMONWEALTH OF VIRGINIA, DEPARTMENT OF TRANSPORTATION
for
ADJUSTMENT OF WATER FACILITIES

THIS AGREEMENT, made and entered into as of the _____ day of _____, 2016, by and between the CITY OF RICHMOND (hereinafter called MUNICIPALITY), and the COMMONWEALTH OF VIRGINIA, DEPARTMENT OF TRANSPORTATION, (hereinafter called the STATE), acting by its Commissioner:

WITNESSETH

WHEREAS, the STATE is proposing to construct a section of highway designated as, Main Street, Project: 0005-127-957, C-501(UPC#107867), which will necessitate changes in the MUNICIPALITY'S water facilities: and,

WHEREAS, the STATE and MUNICIPALITY wish to agree upon the terms and conditions under which the necessary changes will be made as hereinafter set forth:

NOW THEREFORE, for and in consideration of the premises and of the mutual covenants herein contained, the parties hereto agree as follows:

SECTION I

(a) It will be to the best interest of the STATE and the MUNICIPALITY to have the adjustment of the water facilities included in the highway contract to be adjusted by the highway contractor.

(b) The STATE through its highway contractor, will relocate and adjust the MUNICIPALITY'S water facilities in accordance with attached plans and the STATE'S Road and Bridge Specifications; said plans being identified as Six (6) one-half size plans sheets numbered 37(1) through 37(5) of the STATE'S construction plans for Project: 0005-127-957, C-501, as attached.

SECTION II

(a) It has been determined that the project is responsible for bearing 100% of the cost of the water adjustments indicated in SECTION I (b).

(b) It has been determined that the MUNICIPALITY is responsible for bearing 0.0% of the project cost of the water adjustments.

SECTION III

In the event, at any time hereafter that the water facilities indicated in SECTION I (b) be altered, rebuilt or relocated due to highway construction, the applicable cost incurred by the MUNICIPALITY in connection with such alteration, rebuilding or relocation of its facilities will be paid in accordance with the prevailing laws or rules and regulations in effect at the time the work is performed.

SECTION IV

The MUNICIPALITY agrees that the existing facilities, which are to be abandoned, will become the property of the STATE's highway contractor with exceptions as noted in the attached plans. Any salvage value derived therefrom will accrue to the STATE'S highway contractor.

In WITNESS WHEREOF, each party has caused this agreement to be executed in duplicate in its name and on its behalf by its duly authorized officer as of the day and year first written.

In the presence of:

CITY OF RICHMOND

As to the City of Richmond

By: _____
Title:

In the presence of:

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

As to the Commonwealth

By: _____
State Right of Way & Utilities Director

Approved as to form:
David B. Keating
Senior Assistant City Attorney

PROJECT NUMBER: 0005-027-007-0001-0000
 DRAWN BY: J. J. JONES
 CHECKED BY: J. J. JONES
 DATE: 10/1/00

STATE	VA	PROJECT	0005-027-007-0001-0000	SHEET NO.	3711
COUNTY	5	DATE	08/30		

GENERAL NOTES:
 1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN FEET AND INCHES.
 2. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE SPECIFIED.

APPROVED FOR CONSTRUCTION:
 J. J. JONES
 CIVIL ENGINEER
 LICENSE NO. 12345

SUMMARY OF WATER FACILITIES	
SHEET NO.	8" DI WATER MAIN
3711	1
3712	138
TOTALS	139

INDEX OF SHEETS	
PROJECT: 0005-027-007-0001-0000	
SHEET NO. 3711	SUMMARY SHEET
SHEET NO. 3712	GENERAL NOTES/MATERIAL NOTES
SHEET NO. 3712A1	SEQUENCE OF CONSTRUCTION
SHEET NO. 3713	PLAN SHEET 3713
SHEET NO. 3714	WATER MAIN PROFILE
SHEET NO. 3715	DETAILS

STATE	VA	PROJECT	0005-027-007-0001-0000	SHEET NO.	3711
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DATE	NO.	PROJECT	NO.
VA	5	0005-487-987 CSON	1762/A
SPECIAL FEATURES RELATION TO CONSTRUCTION BY THE CONTRACTOR TO BE NOTED BY THE ENGINEER OF THE DEPARTMENT			



SEQUENCE OF CONSTRUCTION

EXECUTE THE FOLLOWING INSTALLATIONS IN THE SEQUENCE INDICATED. PROCEDURE FOR ACCOMPLISHING EACH INSTALLATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL MATERIALS, EQUIPMENT, ETC. REQUIRED TO ACCOMPLISH INSTALLATIONS IN ACCORDANCE WITH THE ASSOCIATED PAY ITEM, AN ALTERNATE SHALL BE INCLUDED IN THE BID COST FOR THE ASSOCIATED PAY ITEM. ALL MATERIALS, EQUIPMENT, ETC. REQUIRED TO ACCOMPLISH INSTALLATIONS IN ACCORDANCE WITH THE ASSOCIATED PAY ITEM, AN ALTERNATE SHALL BE INCLUDED IN THE BID COST FOR THE ASSOCIATED PAY ITEM. ALL MATERIALS, EQUIPMENT, ETC. REQUIRED TO ACCOMPLISH INSTALLATIONS IN ACCORDANCE WITH THE ASSOCIATED PAY ITEM, AN ALTERNATE SHALL BE INCLUDED IN THE BID COST FOR THE ASSOCIATED PAY ITEM.

THE ENTIRE LENGTH OF MAIN LINE UTILITY ADJUSTMENTS SHALL BE PRIOR TO CONNECTION WITHOUT INTERRUPTION TO ANY EXISTING SERVICE CONNECTIONS. PIPING SHALL BE TESTED AND DISINFECTED AS REQUIRED BY THE SPECIFICATIONS.

LANE CLOSURES AND STOPPAGES OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC SHEETS.

OFFSETS AND OTHER ADJUSTMENTS SHALL BE PRE-FABRICATED TO THE EXTENT POSSIBLE PRIOR TO THE OUTAGE OF UTILITY SERVICE.

THE DEFINITION OF TERMS USED IN THE SEQUENCE OF CONSTRUCTION ARE AS FOLLOWS:

SHUTDOWN - SHUTDOWN OF CITY OF RICHMOND FACILITIES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

WATER MAINS SHUTDOWNS SHALL BE COORDINATED WITH THE CITY'S INSPECTOR. ALL EFFORTS REQUIRED TO EXCAVATE, ASSEMBLE AND PLACE PIPE INSTALLATIONS SHALL BE TESTED, CHLORINATED AND/OR DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS STATED ABOVE.

CONNECTIONS - PIPE ASSEMBLIES, SLEEVES, FITTINGS, VALVES, TEMPORARY AND/OR PERMANENT PLUGS AND COUPLINGS AS INDICATED ON THE PLANS OR AS REQUIRED TO ACHIEVE SEQUENCE OF CONSTRUCTION AT LOCATIONS WHERE PROPOSED ADJUSTMENTS MEET EXISTING FACILITIES.

ACTIVATE - UPON COMPLETION OF INSTALLATION, TESTING AND THE ENGINEER'S APPROVAL IN ACCORDANCE WITH PLANS AND SPECIFICATIONS, PLACE THE FACILITY INTO OPERATION.

TRANSFER OF INDIVIDUAL WATER SERVICES SHALL BE LIMITED TO 2 CONSECUTIVE HOURS AND SHALL BE PERFORMED DURING DAYTIME HOURS.

SEQUENCE

1. RESTRAIN EXISTING PIPE TO THE EXTENT POSSIBLE.
2. INSTALL UTILITY "CLEAN" AROUND FUTURE OBSTRUCTION LOCATION ADJACENT TO CONNECTION POINTS. IF THE INSTALLATION IS NOT ADJACENT TO CONNECTION POINTS, CHLORINATED AND/OR DISINFECTED WITH CONSTRUCTION REQUIRED.
3. FOR WATER MAIN, PUSH NEW UTILITY FOR DISINFECTION AND TESTING AS SPECIFIED.
4. SHUTDOWN EXISTING UTILITY SERVICE.
5. REMOVE AND/OR ABANDON EXISTING UTILITY AS REQUIRED TO ACCOMMODATE CONNECTIONS. SHAD INTERIOR OF WATER MAIN AND ADJACENT CONNECTIONS. SHAD INTERIOR OF EXISTING WATER MAIN. ONLY ONE SHUTDOWN WILL BE PERMITTED.
6. ACTIVATE UTILITY.

SUGGESTED DETAILED SEQUENCE OF CONSTRUCTION

SEE BRIDGE PLAN SHEET 6 FOR WATER MAIN INSTALLATION PHASE.

GENERAL NOTES CONT'D

10. ACCEPTANCE
TESTING: ALL PERFORMANCE TESTS, INCLUDING BACTERIOLOGICAL TESTING, SHALL BE COMPLETED WITHIN THE EXISTING WATER SYSTEM. CONTRACTOR SHALL FURNISH COPIES OF ALL SHOP DRAWINGS TO THE CITY OF RICHMOND WATER UTILITIES AND RELATED ITEMS. ANY WORK ON WATER MAINS SHALL BE SUBJECT TO THE REVIEW AND CORRECT INSTALLATION AT THE CONTRACTOR'S EXPENSE.

SUBMITTALS:
THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE FOLLOWING: THE CONDITIONS SHALL BE REQUIRED BY OTHER SECTIONS OF THE CONTRACT DOCUMENTS:

- PIPE SLEEVES
- FITTINGS
- PRESSURE GAUGE CALIBRATION CERTIFICATION
- METHOD OF JOINT RESTRAINT
- RESTRAINT GASKETS
- SEQUENCE OF CONSTRUCTION

MATERIAL NOTES:

ALL MATERIALS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE WATER FACILITIES, AS SPECIFIED IN THE PLANS, SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS WHICH ARE LISTED IN THE LISTED STATES, AND MANUFACTURED PRODUCTS TO BE PRODUCED IN THE UNITED STATES.

DUCTILE IRON WATER MAIN OR OFFSETS OF EXISTING MAINS SHALL BE CLASS 54 PIPE. PIPE AND FITTINGS SHALL MEET STANDARD IN DUCTILE IRON WATER MAINS. ALL FITTINGS SHALL BE RATED WATER WORKING PRESSURE OF 300 PSI. FITTINGS SHALL BE DUCTILE IRON SHALL CONFORM TO ANSA C110. GASKETS SHALL BE IN ACCORDANCE WITH ANSA C111 AND ALL BURNED JOINTS SHALL HAVE VITON TYPE GASKETS.

ALL PROPOSED PIPE AND FITTING JOINTS SHALL BE RESTRAINED EXCEPT FOR THE END OF THE MECHANICAL JOINT LONG SLOPE SLEEVE CONNECTING TO THE EXISTING CAST IRON PIPE.

AMERICAN CAST IRON PIPE COMPANY
MACHINE INCORPORATED
U.S. PIPE AND FOUNDRY COMPANY

MECHANICAL JOINTS OR PUSH-ON RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. RESTRAINED JOINTS SHALL MEET ONE OF THE FOLLOWING CRITERIA:

1. MECHANICAL JOINT WITH RESTRAINER GLANDS SHALL BE U.S. LISTED AS MANUFACTURED BY:
ERSSA IRON-NECA LUG SERIES 1100
ROMAC INDUSTRIES - ROMAC STAR PIPE PRODUCTS-STANTRIP SERIES 3000
2. RESTRAINED PUSH-ON JOINT PIPE AS MANUFACTURED BY:
AMERICAN D-1- PIPE FLEX-RING
MCKNIGHT INC. SUPER-LODE
U.S. PIPE TRAILER

CONNECTIONS TO EXISTING CAST IRON WATER MAINS SHALL BE MADE USING THE TECHNIQUE OF THE MECHANICAL JOINT LONG SLOPE SLEEVE CONNECTING TO THE EXISTING CAST IRON PIPE SHALL NOT BE RESTRAINED.

DEFLECTION: ALLOWABLE DEFLECTION OF ANY SLEEVE JOINT SHALL NOT EXCEED 50% OF THE MANUFACTURER'S ALLOWABLE DEFLECTION.

BEARING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. BACKFILL SHALL BE 3" LAYERED. COMPACTED TO 95% IN 8" LIFTS. BEARING AND BACKFILL SHALL BE CONSIDERED INCIDENTAL AND WILL NOT BE REASURED FOR SEPARATE PAYMENT.

PAINT THE SIZE, CLASS DESIGNATION, MANUFACTURE DATE, AND COMPANY OF EACH FITTING. THE DATE OF THE SHOP DRAWING SHALL BE MARKED ON EACH SPECIAL CASTING AFTER THE SHOP DRAWING HAS BEEN MARKED.

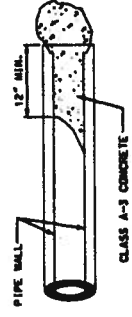
DATE	NO.
0005-487-987	1762/A

DATE	REVISED	BY	NO.
VA. 5			
PROJECT		SHEET NO.	
0005-487-057		SPT 5.1	
6630			



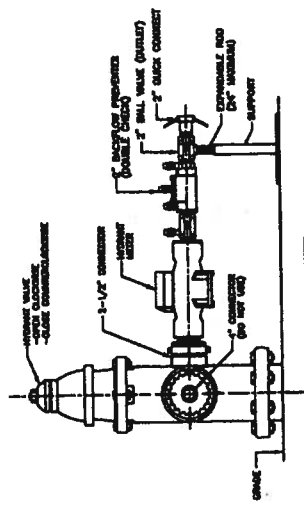
REVISIONS RELATED TO CONTRACT NO. 0005-487-057 ARE TO BE MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

APPROVED FOR CONSTRUCTION BY THE STATE OF VIRGINIA



NOTES:
 1. THE COST OF SEALING EXISTING WATER MAIN IS TO BE INCLUDED IN THE PRICE BID FOR THE ASSOCIATED PAY ITEM REPLACEMENT MAIN. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 PIPE JOINT AND SEAL DETAIL
 NOT TO SCALE

PROJECT	NO.
0005-487-057	SPT 5.1



NOTES:
 1. THIS DEVICE IS TO BE INSTALLED ON THE DOWNSTREAM SIDE OF THE WATER METER.
 2. THE DEVICE IS TO BE INSTALLED ON THE DOWNSTREAM SIDE OF THE WATER METER.
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 10. THE DEVICE IS TO BE INSTALLED ON THE DOWNSTREAM SIDE OF THE WATER METER.
 11. THE DEVICE IS TO BE INSTALLED ON THE DOWNSTREAM SIDE OF THE WATER METER.

PORTABLE WATER METER & BACKFLOW PREVENTION DEVICE
 NOT TO SCALE