ARLINGTON COUNTY, VIRGINIA OFFICE OF THE PURCHASING AGENT SUITE 500, 2100 CLARENDON BOULEVARD ARLINGTON, VA 22201

AGREEMENT NO. 18-020

THIS AGREEMENT is made, on the date of execution by the County, between Fort Myer Construction Corporation ("Contractor") a Virginia Corporation authorized to do business in the Commonwealth of Virginia, and the County Board of Arlington County, Virginia. The County and the Contractor, for the consideration hereinafter specified, agree as follows:

CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement and the following:

- Attachment A Dominion Energy Conduit Specifications
- Attachment B Relocation Procedure for Fiber Cables at South Jefferson Street
- Attachment C Arlington County Virginia Materials Testing Specification Reference Guide
- Attachment D Columbia Pike Segment H/I Easement Conditions
- Attachment E Blade Sculpture
- Attachment F Plans Segment
- Attachment G -Price Schedule

Where the terms and provisions of this Agreement vary from the terms and provisions of the other Contract Documents, the order of precedence of the Contract Documents shall be as follows:

Attachments A, B, C, D and E are considered complementary documents, what is in one shall be considered as in all; where the terms of these Contract Documents vary the most stringent shall apply.

The Contract Documents set forth the entire agreement between the County and the Contractor. The County and the Contractor agree that no representative or agent of either party has made any representation or promise with respect to the parties' agreement that is not contained in the Contract Documents. The Contract Documents may be referred to below as the "Contract" or the "Agreement".

PROJECT OFFICER

The performance of the Contractor is subject to the review and approval of the County Project Officer who will be appointed by the Director of the Arlington County department or agency requesting the work under the Contract.

SCOPE OF WORK

The Contractor will furnish all labor, materials, and equipment for the construction of Columbia Pike Multimodal Street Improvements from Four Mile Run Bridge to South Jefferson Street (the "Project") and all other work shown, described, and required by the Contract Documents (hereinafter "the Work"). The Work shall be performed according to the standards established by the Contract Documents read together as a single specification. It shall be the Contractor's responsibility, at solely the Contractor's cost,

to provide sufficient services to fulfill the purposes of the Work. Nothing in the Contract Documents shall be construed to limit the Contractor's responsibility to manage the details and execution of its Work.

4. CONTRACT TERM

The overall project Contract Term shall be Nine-Hundred Ten (910) consecutive calendar days from Notice to Proceed. No Work shall be deemed complete until the Release and Request for Final Payment have been submitted and approved by the Project Officer.

Within Two-Hundred Seventy (270) consecutive calendar days of the Nine-Hundred Ten (910) consecutive calendar days from Notice to Proceed, the Contractor shall complete and have acceptance of the Dominion Energy, Verizon and Comcast underground conduit systems.

Unless provided in the Contract document, no claims for early completion are allowed.

5. CONTRACT AMOUNT

The County will pay the Contractor in accordance with the terms of the Progress Payments and Retainage and Payment Terms sections below and at the prices shown in Attachment E, but not more than \$14,584,400.00 for the Contractor's completion of the Work as required by the Contract Documents provided the Work is performed to the satisfaction of and is accepted by the Project Officer. The Contractor will complete the Work for the total amount specified in this section ("Contract Amount") unless such amount is modified as provided in this Agreement. The Contract Amount includes all of the Contractor's costs and fees (profit).

PROGRESS PAYMENTS AND RETAINAGE

The County will make monthly progress or partial payments to the Contractor on the basis of an estimate, provided by the Contractor and approved by the Project Officer, of all work performed during the preceding calendar month to the satisfaction of the Project Officer. Five Percent (5%) of each progress payment will be retained by the County until Final Completion and acceptance of all Work covered by the Agreement.

All material and work covered by partial payments will become the property solely of the County at the time the partial payment is made. The Contractor shall have the sole responsibility of care and custody for all materials and work upon which payments have been made until Final Acceptance.

When calculating payment for materials on-site, the County shall not pay for materials which are not scheduled for incorporation into the Work within Sixty (60) days from the date of application for payment.

7. PAYMENT TERMS

The Contractor must submit invoices to the County's Project Officer, who will either approve the invoice or require corrections. The County will pay the Contractor within thirty (30) days after approval of an invoice for completed work which is reasonable and allocable to the Contract. The number of the County Purchase Order pursuant to work has been performed must appear on all invoices. Unless otherwise specified herein, payment shall not be made prior to delivery and acceptance of the entire Work by the County.

PAYMENT OF SUB-CONTRACTORS

The Contractor is obligated to take one of the two (2) following actions within seven days after receipt of payment by the County for work performed by any sub-contractor under this Contract:

- a. Pay the sub-contractor for the proportionate share of the total payment received from the County attributable to the work performed by the sub-contractor under this Contract; or
- b. Notify the County and the sub-contractor, in writing, of the Contractor's intention to withhold all or a part of the sub-contractor's payment with the reason for nonpayment.

The Contractor is obligated to pay interest to the sub-contractor on all amounts owed by the Contractor to the sub-contractor that remain unpaid after Seven (7) days following receipt by the Contractor of payment from the County for work performed by the sub-contractor under this Contract, except for amounts withheld as allowed in Sub-Section (b.), above. Unless otherwise provided under the terms of this Contract, interest will accrue at the rate of One Percent (1%) per month.

The Contractor must include in each of its sub-contracts, if any are permitted, a provision requiring each sub-contractor to include or otherwise be subject to the same payment and interest requirements with respect to each lower-tier sub-contractor.

The Contractor's obligation to pay an interest charge to a sub-contractor pursuant to this section may not be construed to be an obligation of the County. A Contract modification may not be made for the purpose of providing reimbursement for such interest charge. A cost reimbursement claim may not include any amount for reimbursement for such interest charge.

RELEASE AND REQUEST FOR FINAL PAYMENT

In order to receive final payment upon Final Completion of the Project and before Final Acceptance, the Contractor must submit to the Project Officer a signed original notarized copy of the Arlington County Release and Request for Final Payment form per the General Conditions.

LIQUIDATED DAMAGES

Time is of the essence under this Contract. The Work must be completed within the Time for Completion. The County and the Contractor agree that damages for failure to achieve both Duct Bank Completion and Final Completion of the Work by the date specified under the Contract Term are not susceptible to exact determination but that \$5,000.00 per calendar day is in proportion to the actual loss that the County would suffer from such a delay.

As detailed in Section 4-Contract Term, the overall project Contract Term is Nine Hundred Ten (910) consecutive calendar days from Notice to Proceed.

Within Two Hundred Seventy (270) consecutive calendar days of the project Contract Term of Nine Hundred Ten (910) consecutive calendar days from Notice to Proceed, the completion and acceptance of the underground conduit systems for Dominion Energy, Verizon and Comcast must be achieved. Failure to achieve the foregoing Work, Liquidated Damages at the rate of \$5,000.00 per day will be assessed.

The County will be entitled to deduct Liquidated Damages against any sums owed by the County to the Contractor under this Contract at Nine Hundred Ten (910) consecutive calendar days and Two-Hundred Seventy (270) consecutive calendar days. The Contractor hereby waives any defense as to the validity of

any Liquidated Damages on grounds that Liquidated Damages are void as penalties or are not reasonably related to actual damages.

11. BACKGROUND CHECK

All employees or subcontractors whom the Contractor assigns to work on this Contract must pass the County's standard background check. The Background Check will include fingerprinting by the County Sheriff's Office and a credit check.

12. NON-APPROPRIATION

All payments by the County to the Contractor pursuant to this Contract are subject to the availability of an annual appropriation for this purpose by the County Board of Arlington County, Virginia ("Board"). In the event that the Board does not appropriate funds for the goods or services provided under this Contract, the County will terminate the Contract, without termination charge or other liability to the County, on the last day of the fiscal year or when the previous appropriation has been spent, whichever occurs first.

13. ESTIMATED QUANTITIES/NON-EXCLUSIVITY OF CONTRACTOR

This Contract does not obligate the County to purchase a specific quantity of items or services during Contract Term. Any quantities that are included in the Contract Documents are the present expectations of the County for the period of the Contract; and the County is under no obligation to buy that or any amount as a result of having provided this estimate or of having had any normal or otherwise measurable requirement in the past. The County may require more goods and/or services than the estimated annual quantities and any such additional quantities will not give rise to any claim for compensation other than at the unit prices and/or rates in the Contract.

The County does not guarantee that the Contractor will be the exclusive provider of the goods or services covered by this Contract. The items or services covered by this Contract may be or become available under other County contract(s), and the County may determine that it is in its best interest to procure the items or services through those contract(s).

COUNTY PURCHASE ORDER REQUIREMENT.

County purchases are authorized only if the County issues a Purchase Order in advance of the transaction, indicating that the ordering County agency has sufficient funds available to pay for the purchase. If the Contractor provides goods or services without a signed County Purchase Order, it does so at its own risk and expense. The County will not be liable for payment for any purchases made by its employees that are not authorized by the County Purchasing Agent.

15. LIEN

It is expressly agreed that after any payment has been made by the County either to the Contractor for work done, or labor or material supplied under the Contract, the County will have a lien upon all material delivered to the site either by the Contractor, or for the Contractor, which is to be used in the performance of the Contract.

16. <u>EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED</u>

During the performance of its work pursuant to this Contract:

A.The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age or disability or on any other basis prohibited by

state law. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

- B. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation will be deemed sufficient for meeting the requirements of this section.
- C. The Contractor will state in all solicitations or advertisements for employees that it places or causes to be placed that such Contractor is an Equal Opportunity Employer.
- D. The Contractor will comply with the provisions of the Americans with Disabilities Act of 1990 ("ADA"), which prohibits discrimination against individuals with disabilities in employment and mandates that disabled individuals be provided access to publicly and privately provided services and activities.
- E. The Contractor must include the provisions of the foregoing paragraphs in every subcontract or purchase order of more than \$10,000.00 relating to this Contract so that the provisions will be binding upon each subcontractor or vendor.

17. EMPLOYMENT OF UNAUTHORIZED ALIENS PROHIBITED

In accordance with §2.2-4311.1 of the Code of Virginia, as amended, the Contractor must not during the performance of this Contract knowingly employ an unauthorized alien, as that term is defined in the federal Immigration Reform and Control Act of 1986.

18. DRUG-FREE WORKPLACE TO BE MAINTAINED BY CONTRACTOR

During the performance of this Contract, the Contractor must: (i) provide a drug-free workplace for its employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violating such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the Contractor that the Contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of more than \$10,000.00 relating to this Contract so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "workplace" means the site(s) for the performance of the work required by this Contract.

19. PROJECT STAFF

The County has the right to reasonably reject staff or subcontractors whom the Contractor assigns to the Project. The Contractor must then provide replacement staff or subcontractors satisfactory to the County in a timely manner and at no additional cost to the County. The day-to-day supervision and control of the Contractor's employees and its subcontractors is the sole responsibility of the Contractor.

20. FAILURE TO DELIVER

If the Contractor fails to deliver goods or services in accordance with the Contract terms and conditions, the County, after notice to the Contractor, may procure the goods or services from other sources and hold the Contractor responsible for any resulting additional purchase and administrative costs.

The County shall be entitled to offset such costs against any sums owed by the County to the Contractor. However, if public necessity requires the use of non-conforming materials or supplies, they may be accepted at a reduction in price to be determined solely by the County.

21. UNSATISFACTORY WORK

If any of the work done, or material, goods, or equipment provided by the Contractor, is unsatisfactory to the County the Contractor must, upon notice from the County, immediately remove at the Contractor's expense such unsatisfactory work, material, goods, or equipment and replace the same with work, material, goods, or equipment satisfactory to the County. If the Contractor fails to do so after Fifteen (15) days the County shall have the right to remove or replace the rejected work, material, goods, or equipment at the expense of the Contractor and offset the expense and administrative costs against any sums owed to the Contractor.

This provision applies during the Contract term and during any warranty or guarantee period. At the Project Officer's discretion, rather than correction or replacement of the work, an appropriate adjustment to the Contract Amount may be made.

22. TERMINATION FOR CAUSE, INCLUDING BREACH AND DEFAULT; CURE

The County may terminate this Contract at any time as follows: (1) for cause, if, as determined by the County, the Contractor is in breach or default or has failed to perform the Work satisfactorily; or (2) for the convenience of the County.

Upon receipt of a notice of termination, the Contractor must not place any further orders or subcontracts for materials, services or facilities; must terminate all vendors and subcontracts, except as are necessary for the completion of any portion of the Work that the County did not terminate; and must immediately deliver all documents related to the terminated Work to the County.

Any purchases that the Contractor makes after the notice of termination will be the sole responsibility of the Contractor, unless the County has approved the purchases in writing as necessary for completion of any portion of the Work that the County did not terminate.

If any court of competent jurisdiction finds a termination for cause by the County to be improper, then the termination will be deemed a termination for convenience.

A. TERMINATION FOR CAUSE, INCLUDING BREACH AND DEFAULT; CURE

1. Termination for Unsatisfactory Performance. If the County determines that the Contractor has failed to perform satisfactorily, then the County will give the Contractor written notice of such failure(s) and the opportunity to cure them within 15 days or any other period specified by the County ("Cure Period"). If the Contractor fails to cure within the Cure Period, the County may terminate the Contract for failure to provide satisfactory performance by providing written notice with a termination date. The Contractor must submit any request for termination costs, with all supporting documentation, to the County Project Officer within 30 days after the expiration of the Cure Period. The County may accept or reject the request for termination costs, in whole or in part, and may notify the Contractor of its decision within a reasonable time.

In the event of termination by the County for failure to perform satisfactorily, the Contractor must continue to provide its services as previously scheduled through the termination date, and the County must continue to pay all fees and charges incurred through the termination date.

Termination for Breach or Default. If the County terminates the Contract for default or breach
of any Contract provision or condition, then the termination will be immediate after notice of
termination to the Contractor (unless the County provides for an opportunity to cure), and
the Contractor will not be permitted to seek termination costs.

Upon any termination pursuant to this section, the Contractor will be liable to the County for costs that the County must expend to complete the Work, including costs resulting from any related delays and from unsatisfactory or non-compliant work performed by the Contractor or its subcontractors. The County will deduct such costs from any amount due to the Contractor; or if the County does not owe the Contractor, the Contractor must promptly pay the costs within 15 days of a demand by the County. This section does not limit the County's recovery of any other damages to which it is entitled by law.

Except as otherwise directed by the County, the Contractor must stop work on the date of receipt the notice of the termination.

B. TERMINATION FOR THE CONVENIENCE OF THE COUNTY

The County may terminate this Contract in whole or in part whenever the Purchasing Agent determines that termination is in the County's best interest. The County will give the Contractor a minimum of Fifteen (15) calendar days' notice in writing. The notice must specify the extent to which the Contract is terminated and the effective termination date. The Contractor will be entitled to termination costs, plus any other reasonable amounts that the parties might negotiate; but no amount will be allowed for anticipatory profits.

Except as otherwise directed by the County, the Contractor must stop work on the date of receipt of the notice of the termination.

23. INDEMNIFICATION

The Contractor covenants for itself, its employees and its subcontractors to save, defend, hold harmless and indemnify the County and all of its elected and appointed officials, officers, current and former employees, agents, departments, agencies, boards and commissions (collectively the "County Indemnitees") from and against any and all claims made by third parties for any and all losses, damages, injuries, fines, penalties, costs (including court costs and attorneys' fees), charges, liability, demands or exposure resulting from, arising out of or in any way connected with the Contractor's acts or omissions, including the acts or omissions of its employees, vendors, delivery drivers and/or subcontractors, in performance or nonperformance of the Contract.

This duty to save, defend, hold harmless and indemnify will survive the termination of this Contract. If the Contractor fails or refuses to fulfill its obligations contained in this section, the Contractor must reimburse the County for any and all resulting payments and expenses, including reasonable attorneys' fees. The Contractor must pay such expenses upon demand by the County, and failure to do so may result in the County withholding such amounts from any payments to the Contractor under this Contract.

24. INTELLECTUAL PROPERTY INDEMNIFICATION

The Contractor warrants and guarantees that in providing services under this Contract neither the Contractor nor any sub-contractor is infringing on the intellectual property rights (including, but not limited to, copyright, patent, mask and trademark) of third parties.

If the Contractor or any of its employees or sub-contractors uses any design, device, work or material that is covered by patent or copyright, it is understood that the Contract Amount includes all royalties, licensing fees, and any other costs arising from such use in connection with the Work under this Contract.

The Contractor covenants for itself, its employees and its subcontractors to save, defend, hold harmless, and indemnify the County Indemnitees, as defined above, from and against any and all claims, losses, damages, injuries, fines, penalties, costs (including court costs and attorneys' fees), charges, liability or exposure for infringement of or on account of any trademark, copyright, patented or unpatented invention, process or article manufactured or used in the performance of this Contract.

This duty to save, defend, hold harmless and indemnify will survive the termination of this Contract. If the Contractor fails or refuses to fulfill its obligations contained in this section, the Contractor must reimburse the County for any and all resulting payments and expenses, including reasonable attorneys' fees. The Contractor must pay such expenses upon demand by the County, and failure to do so may result in the County withholding such amounts from any payments to the Contractor under this Contract.

25. COPYRIGHT

By this Contract, the Contractor irrevocably transfers, assigns, sets over and conveys to the County all rights, title and interest, including the sole exclusive and complete copyright interest, in any and all copyrightable works created pursuant to this Contract. The Contractor will execute any documents that the County requests to formalize such transfer or assignment.

The rights granted to the County by this section are irrevocable and may not be rescinded or modified, including in connection with or as a result of the termination of or a dispute concerning this Contract.

The Contractor may not use sub-contractors or third parties to develop or provide input into any copyrightable materials produced pursuant to this Contract without the County's advance written approval and unless the Contractor includes this Copyright provision in any contract or agreement with such subcontractors or third parties related to this Contract.

26. OWNERSHIP OF WORK PRODUCT

This Contract does not confer on the Contractor any ownership rights or rights to use or disclose the County's data or inputs.

All work product, in any form, that results from this Contract is the property of the County and must be provided or returned to the County upon completion, termination, or cancellation of this Contract. The Contractor will not use or allow others to use the work product for any purpose other than performance of this Contract without the written consent of the County.

The work product is confidential, and the Contractor may neither release the work product nor share its contents. The Contractor will refer all inquiries regarding the status of any work product to the Project Officer or to his or her designee. At the County's request, the Contractor will deliver all work product, including hard copies of electronic files, to the Project Officer and will destroy all electronic files.

The Contractor must include the provisions of this section as part of any contract or agreement related to this Contract into which it enters with subcontractors or other third parties.

The provisions of this section will survive any termination or cancellation of this Contract.

27. CONFIDENTIAL INFORMATION

The Contractor and its employees, agents and sub-contractors will hold as confidential all County information obtained under this Contract. Confidential information includes, but is not limited to the following:

- Non-public personal information;
- Personal health information (PHI);
- Social security numbers;
- Addresses;
- Dates of birth;
- Other contact information or medical information about a person;
- Information pertaining to products, operations, systems, customers, prospective customers, techniques, intentions, processes, plans and expertise. T

The Contractor must take reasonable measures to ensure that all of its employees, agents and subcontractors are informed of and abide by this requirement.

28. ETHICS IN PUBLIC CONTRACTING

This Contract incorporates by reference Article 9 of the Arlington County Purchasing Resolution, as well as all state and federal laws related to ethics, conflicts of interest or bribery, including the State and Local Government Conflict of Interests Act (Code of Virginia § 2.2-3100 et seq.), the Virginia Governmental Frauds Act (Code of Virginia § 18.2-498.1 et seq.) and Articles 2 and 3 of Chapter 10 of Title 18.2 of the Code of Virginia, as amended (§ 18.2-438 et seq.). The Contractor certifies that its bid was made without collusion or fraud; that it has not offered or received any kickbacks or inducements from any other offeror, supplier, manufacturer or sub-contractor; and that it has not conferred on any public employee having official responsibility for this procurement any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.

29. COUNTY EMPLOYEES

No Arlington County employee may share in any part of this Contract or receive any benefit from the Contract that is not available to the general public.

30. FORCE MAJEURE

Neither party will be held responsible for failure to perform the duties and responsibilities imposed by this Contract if such failure is due to a fire, riot, rebellion, natural disaster, war, act of terrorism or act of God that is beyond the control of the party and that makes performance impossible or illegal, unless otherwise specified in the Contract.

31. AUTHORITY TO TRANSACT BUSINESS

The Contractor must, pursuant to Code of Virginia § 2.2-4311.2, be and remain authorized to transact business in the Commonwealth of Virginia during the entire term of this Contract. Otherwise, the Contract is voidable at the sole option of and with no expense to the County.

32. RELATION TO THE COUNTY

The Contractor is an independent Contractor and neither the Contractor nor its employees or subcontractors will be considered employees, servants or agents of the County. The County will not be responsible for any negligence or other wrongdoing by the Contractor or its employees, servants or agents.

The County will not withhold payments to the Contractor for any federal or state unemployment taxes, federal or state income taxes or Social Security tax or for any other benefits. The County will not provide to the Contractor any insurance coverage or other benefits, including workers' compensation.

33. ANTITRUST

The Contractor conveys, sells, assigns and transfers to the County all rights, title and interest in and to all causes of action under state or federal antitrust laws that the Contractor may have relating to this Contract.

34. REPORT STANDARDS

The Contractor must submit all written reports required by this Contract for advance review in a format approved by the Project Officer. Reports must be accurate and grammatically correct and should not contain spelling errors. The Contractor will bear the cost of correcting grammatical or spelling errors and inaccurate report data and of other revisions that are required to bring the report(s) into compliance with this section.

Whenever possible, proposals must comply with the following guidelines:

- Printed double-sided on at least 30% recycled-content and/or tree-free paper
- Recyclable and/or easily removable covers or binders made from recycled materials (proposals with glued bindings that meet all other requirements are acceptable)
- Avoid use of plastic covers or dividers
- Avoid unnecessary attachments or documents or superfluous use of paper (e.g. separate title sheets or chapter dividers)

35. AUDIT

The Contractor must retain all books, records and other documents related to this Contract for at least five years, or such period of time required by the County's funding partner(s), if any, whichever is greater, after the final payment and must allow the County or its authorized agents to examine the documents during this period and during the Contract Term. The Contractor must provide any requested documents to the County for examination within Fifteen (15) calendar days of the request, at the Contractor's expense.

Should the County's examination reveal any overcharging by the Contractor, the Contractor must, within Thirty (30) calendar days of County's request, reimburse the County for the overcharges and for the reasonable costs of the County's examination, including, but not limited to, the services of external audit firm and attorney's fees; or the County may deduct the overcharges and examination costs from any

amount that the County owes to the Contractor. If the Contractor wishes to destroy or dispose of any records related to this Contract (including confidential records to which the County does not have ready access) within Five (5) years after the final payment, or such period of time required by the County's funding partner(s), if any, whichever is greater, the Contractor must give the County at least 30 days' notice and must not dispose of the documents if the County objects.

36. ASSIGNMENT

The Contractor may not assign, transfer, convey or otherwise dispose of any award or any of its rights, obligations or interests under this Contract without the prior written consent of the County.

37. AMENDMENTS

This Contract may not be modified except by written amendment executed by persons duly authorized to bind the Contractor and the County.

38. ARLINGTON COUNTY PURCHASING RESOLUTION AND COUNTY POLICIES

Nothing in this Contract waives any provision of the Arlington County Purchasing Resolution, which is incorporated herein by reference, or any applicable County policy.

39. DISPUTE RESOLUTION

All disputes arising under this Agreement or concerning its interpretation, whether involving law or fact and including but not limited to claims for additional work, compensation or time, and all claims for alleged breach of contract must be submitted in writing to the Project Officer as soon as the basis for the claim arises. In accordance with the Arlington County Purchasing Resolution, claims denied by the Project Officer may be submitted to the County Manager in writing no later than Sixty (60) calendar days after the final payment.

The time limit for a final written decision by the County Manager is Thirty (30) calendar days. Procedures concerning contractual claims, disputes, administrative appeals and protests are contained in the Arlington County Purchasing Resolution. The Contractor must continue to work as scheduled pending a decision of the Project Officer, County Manager, County Board or a court of law.

40. APPLICABLE LAW, FORUM, VENUE, AND JURISDICTION

This Contract is governed in all respects by the laws of the Commonwealth of Virginia; and the jurisdiction, forum and venue for any litigation concerning the Contract or the Work is in the Circuit Court for Arlington County, Virginia, and in no other court.

41. ARBITRATION

No claim arising under or related to this Contract may be subject to arbitration.

42. NONEXCLUSIVITY OF REMEDIES

All remedies available to the County under this Contract are cumulative, and no remedy will be exclusive of any other at law or in equity.

43. NO WAIVER

The failure to exercise a right provided for in this Contract will not be a subsequent waiver of the same right or of any other right.

44. SEVERABILITY

The sections, paragraphs, clauses, sentences, and phrases of this Contract are severable; and if any section, paragraph, clause, sentence or phrase of this Contract is declared invalid by a court of competent jurisdiction, the rest of the Contract will remain in effect.

45. ATTORNEY'S FEES

The County is entitled to attorney's fees and costs that it incurs to enforce any provision of this Contract.

46. SURVIVAL OF TERMS

In addition to any statement that a specific term or paragraph survives the expiration or termination of this Contract, the following sections also survive: INDEMNIFICATION; INTELLECTUAL PROPERTY INDEMNIFICATION; RELATION TO COUNTY; OWNERSHIP OF WORK PRODUCT; AUDIT; COPYRIGHT; DISPUTE RESOLUTION; APPLICABLE LAW AND JURISDICTION; ATTORNEY'S FEES.

47. <u>HEADINGS</u>

The section headings in this Contract are inserted only for convenience and do not affect the substance of the Contract or limit the sections' scope.

48. AMBIGUITIES

The parties and their counsel have participated fully in the drafting of this Agreement; and any rule that ambiguities are to be resolved against the drafting party does not apply. The language in this Agreement is to be interpreted as to its plain meaning and not strictly for or against any party.

49. NOTICES

Unless otherwise provided in writing, all legal notices and other communications required by this Contract are deemed to have been given when either (a) delivered in person; (b) delivered by an agent, such as a delivery service; or (c) deposited in the United States mail, postage prepaid, certified or registered and addressed as follows:

TO THE CONTRACTOR

Jose Rodriguez, President Fort Myer Construction, Corporation 2237 33rd Street, Northeast Washington, DC 20018 Telephone: 202-636-9535

TO THE COUNTY

Daniel Reinhard, Project Officer, Project Management Coordinator Department of Environmental Services – Transportation 2100 Clarendon Boulevard Suite 900 Arlington, Virginia 22201 Telephone: 703-228-3574 AND

Shirley Diamond, Procurement Officer Office of the Purchasing Agent 2100 Clarendon Boulevard Suite 500 Arlington, Virginia 22201 Telephone: 703-228-3424

50. ARLINGTON COUNTY BUSINESS LICENSES

The Contractor must comply with the provisions of Chapter 11 ("Licenses") of the Arlington County Code, if applicable. For information on the provisions of that Chapter and its applicability to this Contract, the Contractor must contact the Arlington County Business License Division, Office of the Commissioner of the Revenue, 2100 Clarendon Blvd., Suite 200, Arlington, Virginia, 22201, telephone number (703) 228-3060.

51. NON-DISCRIMINATION NOTICE

Arlington County does not discriminate against faith-based organizations.

52. INSURANCE, PAYMENT AND PERFORMANCE BONDS

The Contractor shall maintain the required insurance coverage and payment and Payment and Performance Bonds through completion of the Contract, including all warranty and guarantee periods. (See attached Insurance Checklist)

53. CONTRACTOR PERFORMANCE EVALUATION

Arlington County will perform written evaluations of the Contractor's performance at various intervals throughout the life of this Contract. At a minimum, evaluations will be completed at Fifty Percent (50%) completion of the Work and within Sixty (60) calendar days of Final Completion and prior to any final payment being made to the Contractor.

The evaluation will address the Contractor's Work quality, cost controls, schedule, timeliness and sub-contractor management. The Project Officer will be responsible for completing the evaluations and will provide a copy of the evaluation to the Contractor and Procurement Officer.

WITNESS these signatures:

THE COUNTY BOARD OF ARLINGTON

COUNTY, VIRGINIA

CONTRACTOR

AUTHORIZED

SIGNATURE:

NAME TITLE: **SHIRLEY DIAMOND** PROCUREMENT OFFICER NAME: JOSE RODRIGUEZ

Rodiny2

TITLE: PRESIDENT

DATE: 12-28-17 DATE: December 28, 2017

ATTACHMENTS AND FORMS

ATTACHMENT - A

DOMINION ENERGY CONDUIT SPECIFICATIONS



wr# - Enter Work Request # #

Customer's Name - Enter Customer Name Here

Customer's Address - Enter Customer Address Here

Customer's City & Zip - Enter City, State Zip Here

CONDUIT SPECIFICATIONS, continued

- 4. The conduit or concrete envelope shall have a minimum of 12 inch separation from all obstructions and existing utilities.
- 5. The duct bank configuration will normally be two (2) conduits wide and the required number in depth. However, with the Company's approval, the customer may configure the conduits more than two (2) wide to avoid obstructions. When entering a manhole, the duct bank configuration must be 2 conduits wide.

Section IV-Manholes

- For projects involving customer installed manholes, The Company's drawing entitled "Standard Duct Face Construction" is enclosed. This drawing is to be adhered to without exception. Bell ends are to be installed on conduit at the point where it enters a vault or manhole. The bell ends shall be flush with the interior wall and the wall shall be parged. All excess concrete shall be removed. Manholes shall be cleaned of all debris.
- 2. Manhole design shall be based on HS-20 loading of the latest editions of the "Standard Specification for Highway Bridges" of the American Association of State Highway and Transportation Officials (AASHTO) and the American Concrete Institute 318(ACI-318). The customer is to assume sole and complete liability for failure of manholes to support vehicle loading. The customer will be required to make repairs or replace the manholes should they deteriorate within one year after acceptance by the Company.
- 3. All precast concrete manholes and splice boxes are to be set by the customer so the frame and cover is flush with the final grade surface. A precast or field constructed collar is to be installed between the frame and top of the manhole. The minimum collar heights shall be 12 inches. This collar height is adjustable within the range given to compensate for the setting depth of the manhole as installed. The Company will make 30" frames and covers available at our office for pickup and installation by the customer.
- 4. A 6" to 8" bed of gravel is to be placed in the bottom of the excavation holes prior to setting the manholes. Smaller composite type splice boxes do not require a gravel bed.
- **5.** Four (4) six-foot copper ground rods are to be installed in each manhole, one rod in each corner. The Company shall supply the ground rods for the customer to install.



wr# - Enter Work Request #2

Customer's Name - Enter Customer Name Here

Customer's Address - Enter Customer Address Here

Customer's City & Zip - Enter City, State Zip Here

CONDUIT SPECIFICATIONS, continued

Section V-Inspection

- No concrete encasement of any duct bank will occur until the Company has had the
 opportunity to inspect the conduit run. The provision of a construction schedule as
 required in the above items should allow for a smoothly progressing inspection
 Process.
- 2. It is the customer's sole responsibility to notify The Company at least seven (7) days prior to the beginning of duct bank construction. This lead-time is required to insure the availability of inspection personnel. The notification to the Company must be in writing with a brief construction schedule included. The name and telephone number of the individual supervising the work shall be included with the notification.

Section VI-Conduits Terminating in Building or Transformer

- 1. All conduits, including spares, terminating in an open or exterior area including poles, buildings or other structures shall be plugged to prevent entrance of foreign material.
- Conduit in most cases shall be terminated on exterior of building walls using a 90 degree PVC sweep elbow with a radius as described in Section I, paragraph 3. If the conduit extends through the building wall for an indoor installation, it must be installed a minimum of 24" below final grade
- 3. It shall be the customer's responsibility to waterseal all conduits and duct banks entering a building. The sealing material must be compatible with the polyethylene insulation of the Company's cable.
- 4. The Company will seal the customer conduit for gas <u>only</u> when the Company owns the service lateral.
- 5. Conduit to be provided within a building for the Company's use shall be installed so that the entire installation meets the National Electric Code criteria of exterior wire. This type of installation requires special arrangements between the property owner, the Company, and the local authority having jurisdiction. Reference the latest edition of the National Electrical Code, Articles 230-6 and 450, Part C.
- **6.** Transformer pad sizes and well dimensions vary greatly depending on the size of the transformer. The Company will supply transformer pad drawings for proposed transformer installations. The customer



WR# - Enter Work Request #E

Customer's Name - Enter Customer Name Here

Customer's Address - Enter Customer Address Here

Customer's City & Zip - Enter City, State Zip Here

CONDUIT SPECIFICATIONS, continued

Section VII-Customer Responsibility

- 1. Customer designed conduit plans shall be submitted to the Company for approval prior to customer installation.
- 2. Subsequent to the notification outlined in Section V, a pre-construction meeting will be held at the Company's Local office located at

	(Address)
	(City)
Zip-Code	(State/Zip-Code)
	Zip-Code

- 3. Representatives from the general contractor and appropriate subcontractors are required to attend the meeting. The Company's Construction Management Department representative will review the proposed construction schedule and discuss any construction practices and/or methods applicable to the project at hand. The Undersigned Company service will coordinate and schedule this meeting.
- 4. The customer agrees that no work will proceed until the conduit specifications are executed and returned to the Company. Additionally, a copy of the specifications will be kept in the site office and will be presented on demand to the Company's authorized representative.
- 5. The customer will supply two copies of the as-built drawings showing the final locations of the duct bank and manholes, or conduits as actually installed in the field.
- 6. The Company will not consider the requirements of these specifications complete and in full compliance, until all cable has been installed, terminated, and energized. It is the customer's sole responsibility to make repairs, corrections, or alterations to conduits not meeting the requirements of this specification. The customer will be required to make repairs or replace the manholes, conduit system, or any part thereof, should they deteriorate within one year after acceptance by the Company.





WR# - Enter Work Request # Customer's Name - Enter Customer Name Here
Customer's Address - Enter Customer Address Here
Customer's City & Zip - Enter City, State Zip Here

CONDUIT SPECIFICATIONS, continued

Section VIII-Clearances

- The sizes and location of pad mounted devices shown on drawing may not be to scale. In addition, architectural plans may not be available during design of duct system. Therefore, the following clearances must be met for pad-mounted devices:
 - A minimum of (10) ten feet of clear flat ground must be maintained on the door ends of pad-mounted equipment. Doors are located on (2) two ends of a pad mount switch.
 - A minimum of (3) three feet must be maintained on the remaining two sides of a pad mount device from another pad mounted device, wall, or other obstruction.
 - A minimum clearance of (5) five feet must be maintained between any padmounted device and a window or ventilating system.
 - A minimum of (20) twenty feet must be maintained between any pad-mounted device and a fire escape.

Section IX - Miscellaneous

- Pad-mounted devices can be screened. Any screening must allow for and maintain required clearances. For example, gates may be installed on the door end (or ends) of any device to allow us to safely operate it. Any screening must be submitted to the Company for approval.
- 2. Pad-mounted devices should not interfere with line of site for vehicles at intersections or at driveway entrances.
- 3. The cost to relocate facilities to meet required clearances or line of site will be the customer's responsibility.



Electric Distribution

Date - 01/06/2012

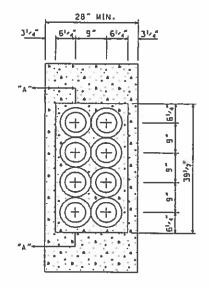
Dominion
Attention: Dominion Representative
Dominion Office Address
Dominion City, State, Zip

LETTER OF AGREEMENT

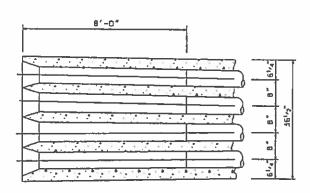
WR# Enter Work Request #

We understand and agree with your requirements as submitted. All conduit work and inspection coordination will comply fully with these specifications. It is further agreed that all appropriate subcontractors have been made aware of your requirements. Compliance by all parities is guaranteed. Any questions arising during the construction phase will be brought to your immediate attention.

Firm Name:	
	Business/Firm Name
Signature:	
Print Name:	
	Type Name Here
Date: 01/06	/2012

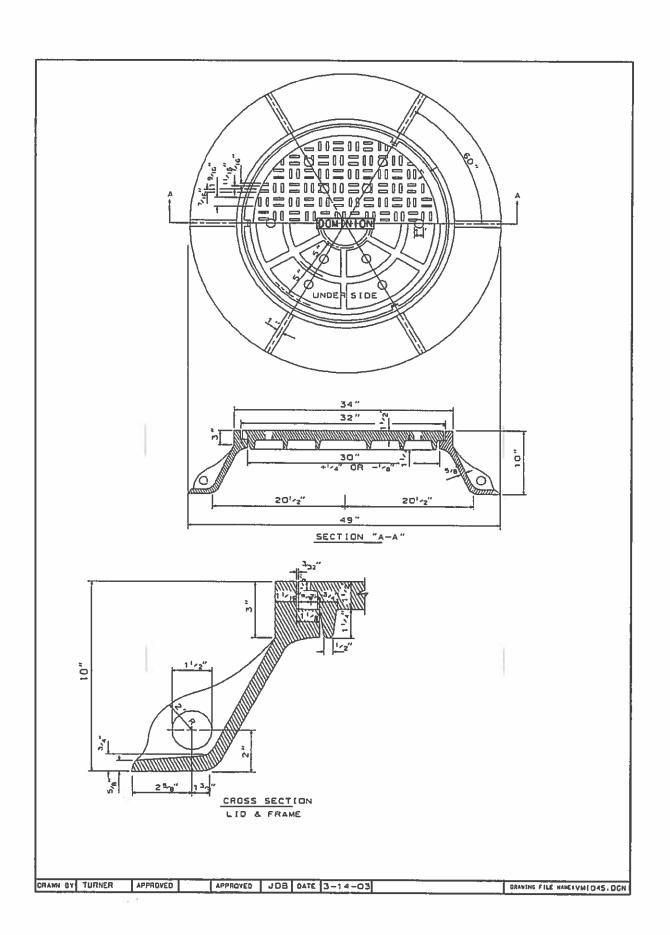


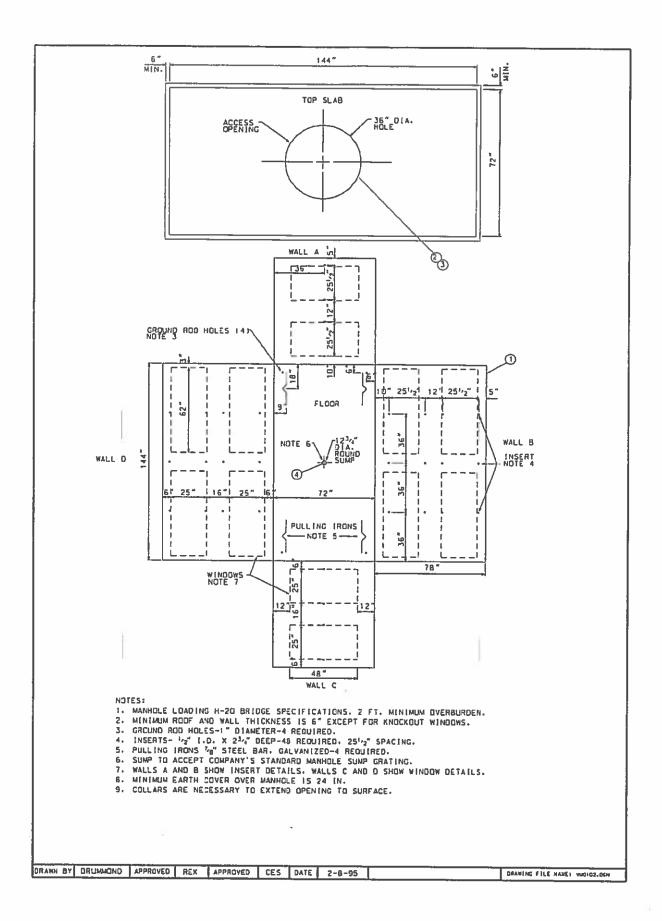
DETAIL OF DUCT FACE IN MANHOLE WALL

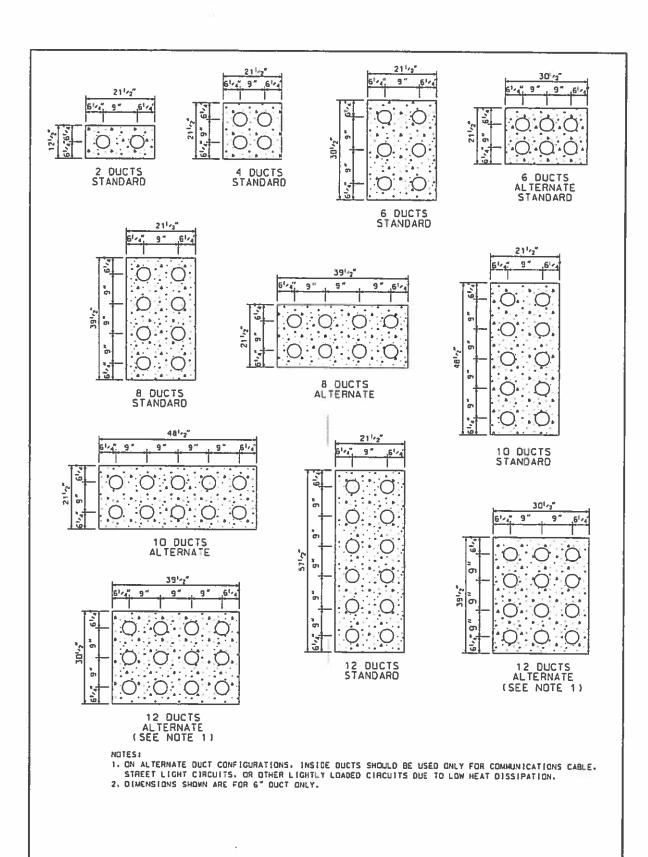


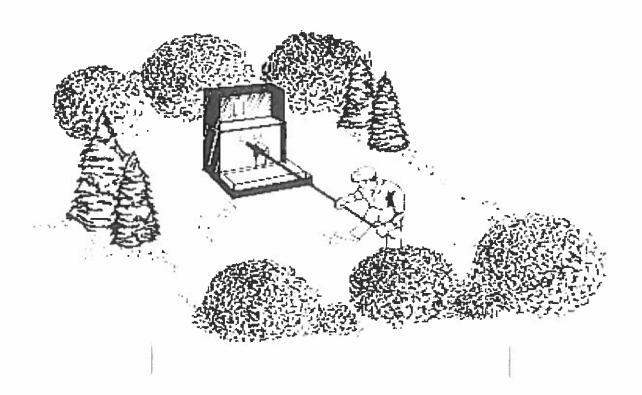
SECTION "A-A"

NOTE:
DIMENSIONS SHOWN ARE FOR 6" DUCT ONLY.





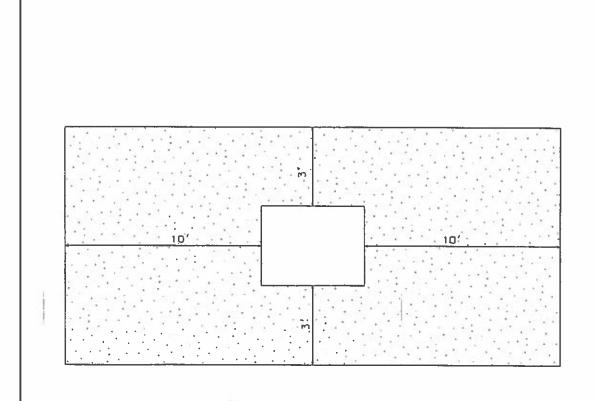




WE NEED ROOM TO WORK SAFELY ON THIS DEVICE.

PLEASE KEEP SHRUBS AND STRUCTURES 10 FEET AWAY FROM THE SIDE WITH DOORS AND 3 FEET FROM OTHER SIDES.

OBSTRUCTIONS MAY BE DAMAGED OR REMOVED DURING SERVICE RESTORATION OR MAINTENANCE.

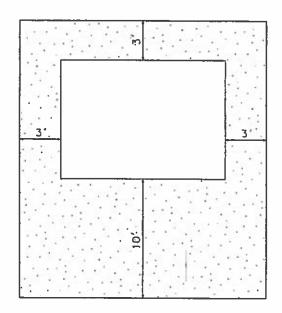


SWITCH CLEAR WORK AREA

NOTE: ALL DIMENSIONS ARE TAKEN FROM SWITCH PAD. PAD DIMENSIONS FOR THE SWITCH TO BE INSTALLED MUST BE ADDED TO THESE DIMENSIONS. (SEE GENERAL NOTE 1)

DRAWN BY ORLUMMOND APPROVED LAN APPROVED CEH DATE 1-27-93

DRAWING FILE HAMES CEIDID-DON



PADMOUNTED TRANSFORMER CLEAR WORK AREA

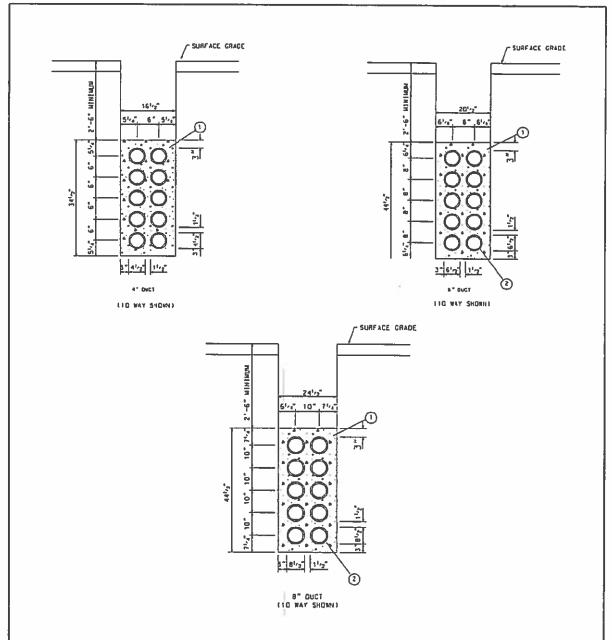
NOTE: ALL DIMENSIONS ARE FROM THE TRANSFORMER PAD.
PAD DIMENSIONS FOR THE TRANSFORMER TO BE
INSTALLED WILL BE ADDED TO THESE DIMENSIONS.
(SEE GENERAL NOTE 1)

SECONDARY PEDESTALS

SECONDARY PEDESTALS REDUIRE A CLEARANCE OF FIVE (5) FEET ON ALL SIDES.

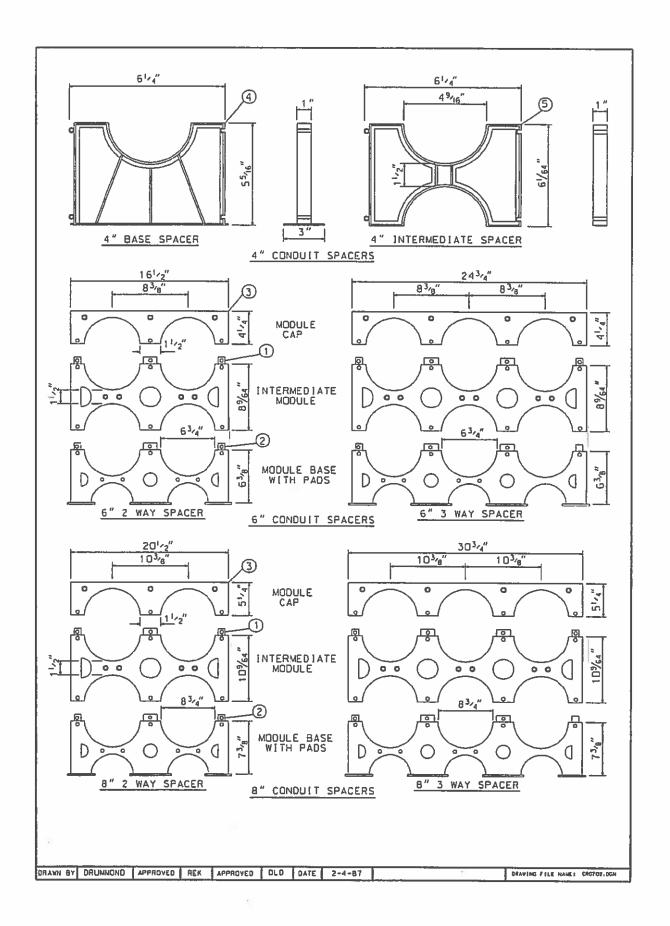
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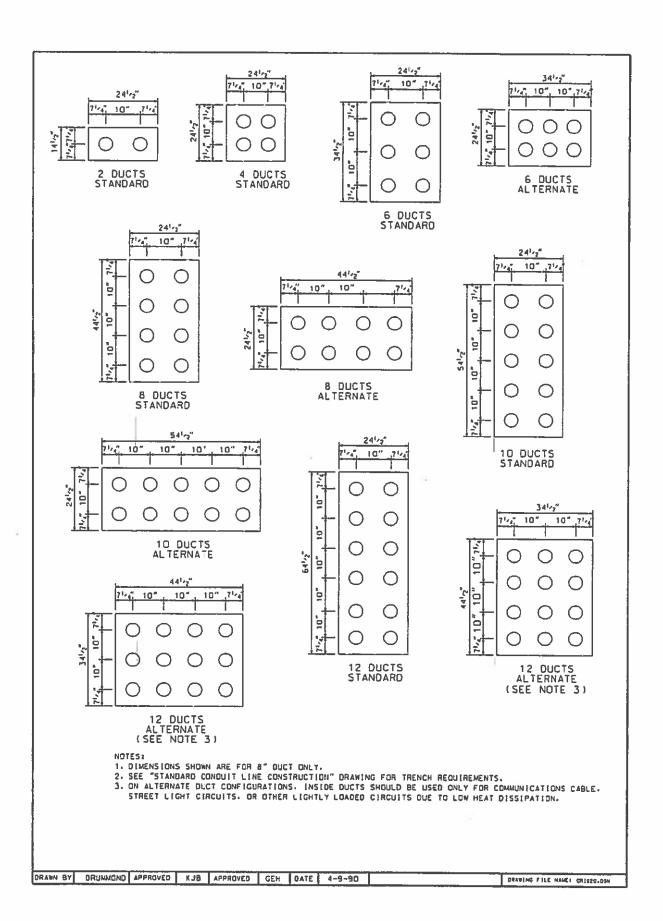
DRAWING FILE HAVE: CEIDIG-DON

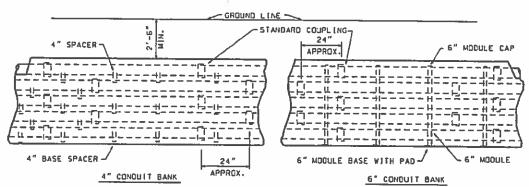


NOTES:

- 1. CONCRETE TO BE 3000 PSI CONCRETE WITH MAXIMUM OF 3/4" GRAVEL.
- 2. IN ALL CONDUIT LINES, REGARDLESS OF NUMBER OF DUCTS, THE SAME HORIZONTAL AND VERTICAL SPACING BETWEEN DUCTS AND THICKNESS OF CONCRETE ENVELOPE ARE TO BE MAINTAINED, EXCEPT AT ENTRANCE TO MANHOLES, IN ENTERING MANHOLES, DUCTS ARE TO HAVE A VERTICAL AND HORIZONTAL SEPARATION OF NOT LESS THAN 21/2". POINT OF SPREADING SHOULD BEGIN A MINIMUM OF 8'-O" FROM MANHOLE WALL.
- 3. SEE "STANDARD CONDUIT LINE FORMATION" DRAWING FOR DIMENSIONS OF OTHER SIZE FORMATIONS OF 4". 6" & 8" DUCT.
- 4. SCHEDULE 40 PVC CONDUIT TO BE USED IN STANDARD DUCT BANKS.
- 5. SEE TABLE IN THIS SECTION FOR AMOUNT OF CONCRETE REQUIRED TO BUILD DUCT BANK.







NOTES:

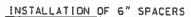
- 1. WHEN REINFORCING STEEL IS REQUIRED THE BASE SHALL BE 4" OF CONCRETE.
- 2. USE PLASTIC SPACERS APPROXIMATELY EVERY 5 FEET.
- 3. STAGGER COUPLINGS/JOINTS BY APPROXIMATELY 2 FEET.

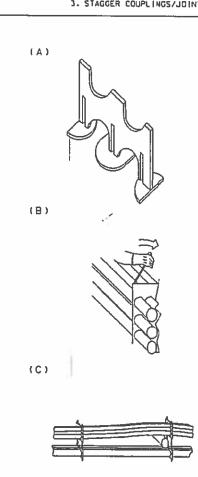
6" MODULE BASE WITH PAD

- (A) USE BASE MODULE ONLY IN SANDY OR SOFT SOIL CONDITIONS. OR WHERE THE NUMBER OF VERTICAL TIERS IS GREATER THAN 4. USE REGULAR MODULE AS BASE UNIT IN GOOD SOIL. AND IN CONDUIT BANKS OF 4 TIERS OR LESS.
- (B) STEEL REINFORCING RODS CAN BE DRIVEN
 DOWN THROUGH VERTICAL CHANNELS ON BOTH
 SIDE EDGES OF THE SPACERS AND INTO TRENCH
 FLOCR (#3 ROD NORMALLY USED). A SHORT
 LENGTH OF PIPE CAN THEN BE USED TO BEND
 RODS INWARD TO PREVENT FLOTATION.

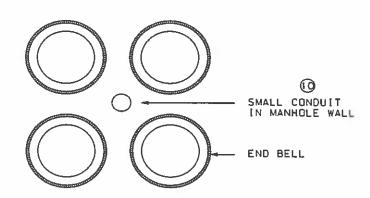
INNOVATIONS

- (C) VERTICAL SPREADS CAN BE MADE TO GET OVER OBSTRUCTIONS OR INTO MULTI-LEVEL KNOCKOUTS IN MANHOLE WALLS BY THE FOLLOWING METHOD:
 - 1) BASE OR MODULE SPACERS ARE PLACED INTO POSITION AND STEEL REINFORCING RODS DRIVEN DOWN THROUGH VERTICAL OPENINGS IN BOTH DUTER EDGES OF THE SPACER.
 - 2) AFTER DUCTS ARE LAID IN. PLASTIC MODULE CAP LOCKS ONTO BASE OR MODULE SPACER.
 - 3) METAL COLLAR WITH LOCKING THUMB SCREW FASTENS AT TOP OF MODULE CAP PREVENTING TIER FROM FLOATING AND AT BOTTOM OF INTERMEDIATE SPACER TO SUPPORT SECOND DUCT TIER AT DESIRED ELEVATION. THEN PROCESS IS REPEATED.

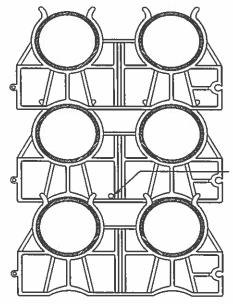




UFER GROUNDING METHOD - GDD020



AT MANHOLE WALL



LOCATION OF BARE 4/0 COPPER WIRE IN DUCTBANK. ZIP TIE TO SPACER.

IN DUCTBANK

NOTES:

- 1. USE 4/0 BARE COPPER WIRE BETWEEN DUCTS.
- 2. LENGTH MUST BE 20 FEET MINIMUM IN A RELATIVELY STRAIGHT RUN.
- 3. COPPER WIRE MAY BE TIED TO SPACERS BUT NOT DUCTS.
- 4. COPPER MUST BE IN CONTACT WITH THE CONCRETE FOR ITS ENTIRE LENGTH.
- 5. USE SMALL CONDUIT TO BRING COPPER WIRE THROUGH MANHOLE WALL.
- 6. SEAL THE OPENING OF THE SMALL CONDUIT WITH SPRAY FOAM TO KEEP CONCRETE OUT.
- 7. COIL A MINIMUM OF 5 FEET OF 4/O COPPER WIRE IN MANHOLE FOR CONNECTION TO SYSTEM NEUTRAL.

DRAWN BY ARNETTE APPROVED BMA REVISED BMA DATE 08-22-12 DRAWING FILE NAME: CD0704.DCM

COMPATIBLE UNITS FOR CONDUIT, ELBOWS & COUPLINGS - CRT006

Compatible Unit	Description	Stock No.
CND1S4	PVC 1-1/4" Conduit Schedule 40	65.1200
CND2S4	PVC 2" Conduit Schedule 40	71.1620
CND3S4	PVC 3" Conduit Schedule 40	71.1630
CND4S4	PVC 4" Conduit Schedule 40	71.1635
CND5S4	PVC 5" Conduit Schedule 40	42211536
CND6S4	PVC 6" Conduit Schedule 40	71.1640
CND8S4	PVC 8" Conduit Schedule 40	71.1642
CND2FG	Fiberglass Conduit 2" Conduit	68.0900
CND3FG	Fiberglass Conduit 3" Conduit	68.0902
CND4FG	Fiberglass Conduit 4" Conduit	68.0904
CND6FG	Fiberglass Conduit 6" Conduit	68.0906
CND8FG	Fiberglass Conduit Heavy Wall 8" x 20' Conduit	42136493
CND2GV	Galvanized steel 2" Conduit	71.1020
CND3GV	Galvanized steel 3" Conduit	71.1030
CND4GV	Galvanized steel 4" Conduit	71.1040
CND6GV	Galvanized steel 6" Conduit	71.1060
CND4S4BG	PVC Sch 40 4" Conduit for boring applications	42085528
CND6S4BG	PVC Sch 40 6" Conduit for boring applications	42085529
CND8S8BG	PVC Sch 80 8" Conduit for boring applications	42183759
CND1S490D	PVC Schedule 40 1-1/4" elbow 90°	65.1430
CND2S45D	PVC Sch. 40 5° coupling 2"	71.2333
CND2S430D	PVC Schedule 40 2" elbow 30° 9-1/2" radius	71.2905
CND2S445D	PVC Schedule 40 2" elbow 45° 9-1/2" radius	71.2910
CND2S490D9	PVC Schedule 40 2" elbow 90° 9-1/2" radius	71.2915
CND2S490D24	PVC Schedule 40 2" elbow 90° 24" radius	71.2917
CND3S430D	PVC Schedule 40 3" elbow 30° 13" radius	71.2920
CND3S445D	PVC Schedule 40 3" elbow 45° 13" radius	71.2930
CND3S490D13	PVC Schedule 40 3" elbow 90° 13" radius	71.2935
CND3S490D24	PVC Schedule 40 3" elbow 90° 24" radius	71.2937
CND4S45D	PVC sch. 40 5° coupling 4"	71.2335
CND4S411D	PVC Schedule 40 4" elbow 11-1/4° 16" radius	42142089
CND4S422D	PVC Schedule 40 4" elbow 22-1/2° 16" radius	42142090
CND4S430D	PVC Schedule 40 4" elbow 30° 16" radius	71.2940
CND4S445D	PVC Schedule 40 4" elbow 45° 16" radius	71.2945
CND4S490D	PVC Schedule 40 4" elbow 90° 16" radius	71.2950

COMPATIBLE UNITS FOR CONDUIT, ELBOWS & COUPLINGS - CRT006

CND4S49D36 PVC Schedule 40 4" elbow 90" 36" radius 71.2952 CND5S45D PVC sch. 40 5" coupling 5" 42210447 CND5S411D PVC Schedule 40 5" elbow 11-1/4" 36" radius 42210396 CND5S411D PVC Schedule 40 5" elbow 22-1/2" 36" radius 42210394 CND5S422D PVC Schedule 40 5" elbow 30" 36" radius 42210448 CND5S430D PVC Schedule 40 5" elbow 90" 36" radius 42210449 CND5S445D PVC Schedule 40 5" elbow 90" 36" radius 42210451 CND6S41D PVC Schedule 40 5" elbow 90" 36" radius 42210451 CND6S49DDB PVC Schedule 40 6" elbow 30" 30" radius 42107717 CND6S41DD PVC Schedule 40 6" elbow 22-1/2" 30" radius 42107717 CND6S430D PVC Schedule 40 6" elbow 45" 30" radius 71.2965 CND6S430D PVC Schedule 40 6" elbow 90" 30" radius 71.2965 CND6S490D36 PVC Schedule 40 6" elbow 90" 36" radius 71.2967 CND8S45D PVC Schedule 40 8" elbow 90" 36" radius 71.2967 CND8S45D PVC Schedule 40 8" elbow 90" 36" radius 71.2967 CND8S490D PVC Schedule 40 8" elbow 30" 48" radius 71.2977 <th></th> <th></th> <th></th>			
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CND6S45D PVC sch. 40 5° coupling 6° 71.2337 CND6S411D PVC Schedule 40 6° elbow 11-1/4° 36° radius 42107717 CND6S422D PVC Schedule 40 6° elbow 22-1/2° 30° radius 42107718 CND6S430D PVC Schedule 40 6° elbow 30° 30° radius 71.2955 CND6S445D PVC Schedule 40 6° elbow 90° 30° radius 71.2960 CND6S490D PVC Schedule 40 6° elbow 90° 30° radius 71.2965 CND6S490D36 PVC Schedule 40 6° elbow 90° 36° radius 71.2967 CND8S45D PVC Schedule 40 8° elbow 90° 36° radius 71.2380 CND8S45D PVC Schedule 40 8° elbow 11-1/4° 48° radius 42107719 CND8S411D PVC Schedule 40 8° elbow 30° 48° radius 42107720 CND8S422D PVC Schedule 40 8° elbow 30° 48° radius 42202659 CND8S430D PVC Schedule 40 8° elbow 45° 36° radius 71.2970 CND8S445D36 PVC Schedule 40 8° elbow 45° 36° radius 71.2970 CND8S490D PVC Schedule 40 8° elbow 45° 36° radius 71.2980 CND2S4BELL PVC Schedule 40 8° elbow 90° 48° radius 71.0091 CND3S4BELL PVC Schedule 40 8° end bell 71.0092	CND5S445D	PVC Schedule 40 5" elbow 45" 36" radius	42210449
CND6S411D PVC Schedule 40 6" elbow 11-1/4" 36" radius 42107717 CND6S422D PVC Schedule 40 6" elbow 30" 30" radius 42107718 CND6S430D PVC Schedule 40 6" elbow 30" 30" radius 71.2955 CND6S445D PVC Schedule 40 6" elbow 45" 30" radius 71.2960 CND6S490D PVC Schedule 40 6" elbow 90" 30" radius 71.2965 CND6S490D36 PVC Schedule 40 6" elbow 90" 36" radius 71.2967 CND8S45D PVC Schedule 40 8" elbow 90" 36" radius 71.2380 CND8S411D PVC Schedule 40 8" elbow 11-1/4" 48" radius 42107719 CND8S42D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45" 48" radius 71.2970 CND8S49DD PVC Schedule 40 8" elbow 45" 48" radius 71.2970 CND8S49ELL PVC Schedule 40 8" elbow 45" 48" radius 71.2970 CND8S49ELL PVC Schedule 40 8" elbow 45" 48" radius 71.2970 CND8S4BELL PVC Schedule 40 8" elbow 45" aradius <t< td=""><td>CND5S490D36</td><td>PVC Schedule 40 5" elbow 90° 36" radius</td><td>42210451</td></t<>	CND5S490D36	PVC Schedule 40 5" elbow 90° 36" radius	42210451
CND6S422D PVC Schedule 40 6" elbow 22-1/2" 30" radius 42107718 CND6S430D PVC Schedule 40 6" elbow 30" 30" radius 71.2955 CND6S445D PVC Schedule 40 6" elbow 45" 30" radius 71.2960 CND6S490D PVC Schedule 40 6" elbow 90" 30" radius 71.2965 CND6S490D36 PVC Schedule 40 6" elbow 90" 36" radius 71.2967 CND8S45D PVC Schedule 40 8" elbow 90" 36" radius 42107719 CND8S411D PVC Schedule 40 8" elbow 11-1/4" 48" radius 42107719 CND8S422D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45" 48" radius 71.2970 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2970 CND8S49ELL PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND3S4BELL PVC Schedule 40 8" elbow 90" all 71.0091 CND4S4BELL PVC Schedule 40 8" elbow 90" all 71.0092	CND6S45D	PVC sch. 40 5° coupling 6"	71.2337
CND6S430D PVC Schedule 40 6" elbow 30" 30" radius 71.2955 CND6S445D PVC Schedule 40 6" elbow 45" 30" radius 71.2960 CND6S490D PVC Schedule 40 6" elbow 90" 30" radius 71.2965 CND6S490D36 PVC Schedule 40 6" elbow 90" 36" radius 71.2967 CND8S45D PVC Schedule 40 8" elbow 90" 36" radius 71.2380 CND8S411D PVC Schedule 40 8" elbow 11-1/4" 48" radius 42107719 CND8S422D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S430D PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D36 PVC Schedule 40 8" elbow 45" 48" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 90" 48" radius 71.2970 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 8" elbow 90" 48" radius 71.0091 CND3S4BELL PVC Schedule 40 8" elbow 90" 48" radius 71.0091 CND4S4BELL PVC Schedule 40 8" elbow 90" 48" radius 71.0092 CND4S4BELL PVC Schedule 40 8" end bell 71.0093 CND5S4BELL PVC Schedule 40 8" end bell 71.0094	CND6S411D	PVC Schedule 40 6" elbow 11-1/4" 36" radius	42107717
CND6S445D PVC Schedule 40 6" elbow 45" 30" radius 71.2960 CND6S490D PVC Schedule 40 6" elbow 90" 30" radius 71.2965 CND6S490D36 PVC Schedule 40 6" elbow 90" 36" radius 71.2967 CND8S45D PVC Sch. 40 5" coupling 8" 71.2380 CND8S411D PVC Schedule 40 8" elbow 11-11/4" 48" radius 42107719 CND8S422D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 45" 36" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 48" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45" 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 8" elbow 90" 48" radius 71.0091 CND3S4BELL PVC Schedule 40 8" end bell 71.0092 CND4S4BELL PVC Schedule 40 8" end bell 71.0093 CND5S4BELL PVC Schedule 40 6" end bell 71.0094 CND5S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45", 36" radius 68.1320 CND2FG90D	CND6\$422D	PVC Schedule 40 6" elbow 22-1/2" 30" radius	42107718
CND6S490D PVC Schedule 40 6" elbow 90° 30" radius 71.2965 CND6S490D36 PVC Schedule 40 6" elbow 90° 36" radius 71.2967 CND8S45D PVC sch. 40 5" coupling 8" 71.2380 CND8S411D PVC Schedule 40 8" elbow 11-11/4" 48" radius 42107719 CND8S422D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 45° 36" radius 42202659 CND8S445D48 PVC Schedule 40 8" elbow 45° 48" radius 71.2970 CND8S490D PVC Schedule 40 8" elbow 90° 48" radius 71.2980 CND2S4BELL PVC Schedule 40 8" elbow 90° 48" radius 71.0991 CND3S4BELL PVC Schedule 40 8" elbow 90° 48" radius 71.0091 CND4S4BELL PVC Schedule 40 8" elbow 90° 48" radius 71.0091 CND4S4BELL PVC Schedule 40 8" end bell 71.0092 CND4S4BELL PVC Schedule 40 8" end bell 71.0093 CND5S4BELL PVC Schedule 40 6" end bell 71.0094 CND6S4BELL PVC Schedule 40 8" end bell 71.0094 CND2FG45D Fiberglass 2" elbow 90°, 36" radius 68.1320 CND2FG90D	CND6S430D	PVC Schedule 40 6" elbow 30" 30" radius	71.2955
CND6S490D36 PVC Schedule 40 6" elbow 90" 36" radius 71.2967 CND8S45D PVC sch. 40 5" coupling 8" 71.2380 CND8S411D PVC Schedule 40 8" elbow 11-1/4" 48" radius 42107719 CND8S422D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45" 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 2" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 71.0094 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND2FG45D Fiberglass 2" elbow 45", 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90", 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 90", 36" radius 68.1324 CND4FG45D Fiberglass 4	CND6S445D	PVC Schedule 40 6" elbow 45° 30" radius	71.2960
CND8S45D PVC sch. 40 5° coupling 8" 71.2380 CND8S411D PVC Schedule 40 8" elbow 11-1/4" 48" radius 42107719 CND8S422D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45" 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 2" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 71.0094 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND2FG45D Fiberglass 2" elbow 45", 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90", 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 90", 36" radius 68.1324 CND4FG45D Fiberglass 4" elbow 90", 36" radius 68.1328 CND4FG45D Fiberglass 6" elbo	CND6S490D	PVC Schedule 40 6" elbow 90° 30" radius	71.2965
CND8S411D PVC Schedule 40 8" elbow 11-1/4" 48" radius 42107719 CND8S422D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 90" 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0094 CND2FG45D Fiberglass 2" elbow 45", 36" radius 68.1320 CND2FG45D Fiberglass 2" elbow 90", 36" radius 68.1350 CND3FG90D Fiberglass 3" elbow 90", 36" radius 68.1354 CND4FG45D Fiberglass 4" elbow 90", 36" radius 68.1358 CND6FG90D Fiberglass 6"	CND6S490D36	PVC Schedule 40 6" elbow 90° 36" radius	71.2967
CND8S422D PVC Schedule 40 8" elbow 22-1/2" 48" radius 42107720 CND8S430D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45" 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 90", 36" radius 68.1320 CND2FG45D Fiberglass 2" elbow 90", 36" radius 68.1354 CND3FG45D Fiberglass 3" elbow 90", 36" radius 68.1354 CND4FG45D Fiberglass 4" elbow 90", 36" radius 68.1338 CND6FG45D Fiberglass 6" elbow 90", 36" r	CND8S45D	PVC sch. 40 5" coupling 8"	71.2380
CND8S430D PVC Schedule 40 8" elbow 30" 48" radius 42202659 CND8S445D36 PVC Schedule 40 8" elbow 45" 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45" 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90" 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45", 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90", 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 90", 36" radius 68.1324 CND4FG90D Fiberglass 4" elbow 90", 36" radius 68.1328 CND4FG90D Fiberglass 6" elbow 45", 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 45", 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 45", 36" rad	CND8S411D	PVC Schedule 40 8" elbow 11-1/4" 48" radius	42107719
CND8S445D36 PVC Schedule 40 8" elbow 45° 36" radius 71.2970 CND8S445D48 PVC Schedule 40 8" elbow 45° 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90° 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 4" elbow 90°, 36" radius 68.1328 CND4FG90D Fiberglass 6" elbow 45°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1336 CND8FG45D Fiberglass 6" elbow 90°, 36" radius </td <td>CND8S422D</td> <td>PVC Schedule 40 8" elbow 22-1/2" 48" radius</td> <td>42107720</td>	CND8S422D	PVC Schedule 40 8" elbow 22-1/2" 48" radius	42107720
CND8S445D48 PVC Schedule 40 8" elbow 45° 48" radius 71.2975 CND8S490D PVC Schedule 40 8" elbow 90° 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 71.0094 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 4" elbow 90°, 36" radius 68.1324 CND4FG45D Fiberglass 4" elbow 90°, 36" radius 68.1328 CND4FG90D Fiberglass 6" elbow 45°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 45°, 36" radius 68.1332 CND8FG45D Fiberglass 6" elbow 90°, 36" radius 68.1336	CND8S430D	PVC Schedule 40 8" elbow 30° 48" radius	42202659
CND8S490D PVC Schedule 40 8" elbow 90° 48" radius 71.2980 CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 4" elbow 90°, 36" radius 68.1354 CND4FG45D Fiberglass 4" elbow 90°, 36" radius 68.1328 CND6FG45D Fiberglass 6" elbow 45°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1336 CND8FG45D Fiberglass 6" elbow 90°, 36" radius 68.1336	CND8S445D36	PVC Schedule 40 8" elbow 45° 36" radius	71.2970
CND2S4BELL PVC Schedule 40 2" end bell 71.0091 CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 4" elbow 90°, 36" radius 68.1328 CND4FG45D Fiberglass 4" elbow 90°, 36" radius 68.1328 CND6FG45D Fiberglass 6" elbow 45°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG45D Fiberglass 6" elbow 90°, 36" radius 68.1362 CND8FG45D Fiberglass 8" elbow 45°, 36" radius 68.1336	CND8S445D48	PVC Schedule 40 8" elbow 45° 48" radius	71.2975
CND3S4BELL PVC Schedule 40 3" end bell 71.0092 CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 3" elbow 90°, 36" radius 68.1328 CND4FG45D Fiberglass 4" elbow 45°, 36" radius 68.1328 CND4FG90D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG45D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1362 CND8FG45D Fiberglass 8" elbow 45°, 36" radius 68.1336	CND8S490D	PVC Schedule 40 8" elbow 90° 48" radius	71.2980
CND4S4BELL PVC Schedule 40 4" end bell 71.0093 CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 4" elbow 90°, 36" radius 68.1354 CND4FG45D Fiberglass 4" elbow 90°, 36" radius 68.1328 CND4FG90D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG45D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1336 CND8FG45D Fiberglass 8" elbow 45°, 36" radius 68.1336	CND2S4BELL	PVC Schedule 40 2" end bell	71.0091
CND5S4BELL PVC Schedule 40 5" end bell 42210452 CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 3" elbow 90°, 36" radius 68.1354 CND4FG45D Fiberglass 4" elbow 45°, 36" radius 68.1328 CND4FG90D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1336 CND8FG45D Fiberglass 8" elbow 45°, 36" radius 68.1336	CND3S4BELL	PVC Schedule 40 3" end bell	71.0092
CND6S4BELL PVC Schedule 40 6" end bell 71.0094 CND8S4BELL PVC Schedule 40 8" end bell 71.0095 CND2FG45D Fiberglass 2" elbow 45°, 36" radius 68.1320 CND2FG90D Fiberglass 2" elbow 90°, 36" radius 68.1350 CND3FG45D Fiberglass 3" elbow 45°, 36" radius 68.1324 CND3FG90D Fiberglass 3" elbow 90°, 36" radius 68.1354 CND4FG45D Fiberglass 4" elbow 45°, 36" radius 68.1328 CND4FG90D Fiberglass 6" elbow 90°, 36" radius 68.1332 CND6FG45D Fiberglass 6" elbow 45°, 36" radius 68.1332 CND6FG90D Fiberglass 6" elbow 90°, 36" radius 68.1336 CND8FG45D Fiberglass 8" elbow 45°, 36" radius 68.1336	CND4S4BELL	PVC Schedule 40 4" end bell	71.0093
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	CND6FG90D	Fiberglass 6" elbow 90°, 36" radius	68.1362
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	CND8FG90D	Fiberglass 8" elbow 90°, 36" radius	68.1366

SCHEDULE 40 PVC COMPONENTS — CRT010				
BELL END	TERMINAL ADAPTERS MALE FEMALE			
END BELL	REDUCER BUSHING			
	REDUCER COUPLING ELBOWS 90 DEGREE			
STRAIGHT COUPLING	45 DEGREE			
5 DEG. ANGLE COUPLING	30 DEGREE			
CONDUIT PLUGS 2" = 71.3911	22½ DEGREE			
CONDUIT PLUGS 2" = 71.3911 3" = 71.3913 4" = 71.3915 5" = 42210392 6" = 71.3917 8" = 71.3919	114 DEGREE			
DRAWN BY DRUMMOND APPROVED REK REVISED	BMA DATE D8-27-12 DRAWING FILE MANE: CRIDIO.DC	70		

PRECAST MANHOLE FOR UNDERGROUND CABLES ID. 4' x 6' x 7' - VMD014 TOP SLAB ACCESS - OPENING (1) £8″ LIFTERS FOR— SETTING TOP AND BOTTOM (8 REQUIRED) 30 3'6" 5 PULLING IN TIRONS (TYP.) 2 IN TOP 4 IN BOTTOM [] 0 3'6" 6 36" DIA 36" 18" WALL A 8 1/2" INSERTS FOR RACKING 9"18' WALL B WALL D 9"18" 18"9" 3 " 1 I 61/2" 35 " 3'6 SUMP RECESS 6" " ک<u>آ</u> 6" 2 WALL C 2 3 " 5'6" NOTES: NOTES: 1. MANHOLE LOADING H-20 BRIDGE SPECIFICATIONS. 2 FT. MINIMUM OVERBURDEN PREFERRED. 2. MINIMUM ROOF AND WALL THICKNESS IS 6" EXCEPT FOR KNOCKDUT WINDOWS. 3. GROUND ROD HOLES 1" DIAMETER - INSTALL 4 RODS OR USE UFER METHOD DURING CONSTRUCTION. 4. INSERTS- 1/2" I.D. X 23/4" DEEP - 32 REQUIRED. SPACING AS SHOWN. 5. PULLING IRONS 7/4" STEEL BAR. GALVANIZED. 6. SUMP TO ACCEPT COMPANY'S STANDARD MANHOLE SUMP GRATING. 7. WALLS A AND B SHOW INSERT DETAILS. WALLS C AND D SHOW WINDOW DETAILS. B. COLLARS ARE NECESSARY TO EXTEND OPENING TO SURFACE. 9. WALL ANCHORS COME IN A BOX OF 50 UNDER STOCK NUMBER 42080176. DRAWN BY ARNETTE APPROVED BMA REVISED BMA DATE 12-8-14 DRAWING FILE HAMEL VM0101-DCH

<u>ATTACHMENT – B</u>

RELOCATION PROCEDURE FOR FIBER CABLES AT SOUTH JEFFERSON STREET

ATTACHMENT B

RELOCATION PROCEDURE FOR FIBER CABLES AT S JEFFERSON ST

BACKGROUND

This project requires the relocation of live fiber optic cable from existing conduits and handholes to new conduits and handholes. This fiber optic work must be performed by one of three Arlington County fiber optic contractors: N-to-N Fiber, Inc. (703.331.3884), Jones Utilities Construction, Inc. (540.891.5545), or Southern Maryland Cable, Inc. (410.867.7352).

There are two (2) 144 fiber optic backbone cables. The Intelligent Transportation System (ITS) 144 is indicated by "ARL COUNTY ITS 703-558-2222". The Arlington County Department of Technology (DTS) 144 is indicated by "ARL COUNTY DTS 703-558-2222" and has a red stripe the length of the cable.

ITS CABLE PROCEDURE

- 1. Proof the new conduits between handhole 3703 and 3705. Contact ConnectArlington inspectors at 703-228-7726 to arrange for an inspector on-site.
- 2. At handhole (HH) 3704, undo the existing splice in the ITS 144 Cable separating the two halves and the 12 fiber station cable to the traffic signal cabinet.
- 3. Carefully extract the two ITS 144 segments back to HH 3703 and to HH 3705.
- 4. Carefully extract the 12 fiber station cable back to and out of the existing traffic signal cabinet taking care to not damage the preterminated patch panel within the signal cabinet
- 5. Pull the cables through the new conduit to the new handhole 3704 and place the preterminated patch panel cable from the new traffic signal cabinet to the new handhole. Ensure 50ft storage coils are placed in each handhole. If there is extra cable, place the extra cable with the coil in the handhole closest to the splice.
- 6. Splice the ITS cables at the new handhole location. The existing splice case may be reused.

DTS CABLE PROCEDURE

- 1. Undo the existing DTS splice at HH 3701.
- 2. Carefully extract the 144 DTS cable through handholes 3702, 3703, 3704, ending at HH 3705.
- 7. Carefully place the cable back through the new conduit and handholes to the original handhole HH 3701. Ensure 50ft storage coils are placed in each handhole. If there is extra cable, place the extra cable with the coil in the handhole closest to the splice.
- 3. Resplice the DTS cable. The existing splice case may be reused.

FIBER SPLICE TESTING

- Perform testing to County standards comprised of bidirectional OTDR and power meter (OLTS)
 testing from test points at Firestation 2 (4805 Wilson Blvd), BB&T building (6400 Arlington Blvd),
 Arlington Mill Community Center (909 S Dinwiddie St), and 20 traffic cabinets, and eight (8) County or
 School buildings. County standards require the bidirectional loss measured for each splice to be no
 greater than 0.05 db.
- 2. The OTDR and OLTS abbreviated names for the test end points shall be F02 for Fire Station 2, AMC for Arlington Mills Community Center, BBT for the BB&T Building, and Cxxx (where xxx is a three digit number) for every traffic signal cabinet test point.
- 3. There are 20 traffic signals test points between FO2 and AMC. There are eight (8) building test points other than FO2, BBT, and AMC. Their abbreviations will be provided prior to the start of testing.
- 4. The fiber under test shall be indicated by a three digit number and the wavelength of the test shall also be indicated in the file name.

- 5. Bi-Directional OTDR and OLTS results shall be presented with AMC used as Test Point A in all submitted results. Test Point B shall be the non-AMC location.
- 6. Submit test results for bi-directional OTDR and OLTS in both PDF format and native file formats for each of the test results to County's fiber optic manager (703-228-7726) on a CD or USB flash drive.

<u>ATTACHMENT – C</u>

ARLINGTON COUNTY, VIRGINIA MATERIALS TESTING SPECIFICATION REFERENCE GUIDE (08-18-2016)

ATTACHMENT C

MATERIAL	VDOT ROAD	MINIMUM RATE OF	LOCATION	REMARKS
AND TEST	AND BRIDGE	SAMPLING	OF	
(REF VDOT	SPECIFICATION	(REF VDOT MANUAL OF	SAMPLING	
TEST METHODS	2002 (Or Latest	INSTRUCTIONS)	,	
MANUAL)	Version)			<u> </u>

		SOILS AND AGGREG	ATES	
1. Embankments				
(a) Density, Any Method	303.04(h)	One (1) test per 2500 yd3 or less plus: (a) for fills less than 500 ft. length one (1) test on every other 6-in. layer bottom to top of fill starting with the second lift; (b) for fills from 500-2000 ft. length, two (2) tests per 6-in. layer within top five (5) ft. of fill: (c) for fills greater than 2000 ft length, break into equal segments not to exceed 2000 ft. and use same frequency for each section as for fills 500 to 2000 ft. in length.	Roadway	When tests are not run due to gravel, muck, rock, etc. give station and depth on report in lieu of test, with reason. For nuclear test, use Direct Transmission Method, VTM-10. See Notes 1 and 2.
2. Finished Sub- grade (Both Cut and Fill Sections				
(a) Density, Any Method	305.03	One (1) test per 2000 continuous linear ft. of roadway and one test minimum per intersection per construction location	Roadway (24 ft.)	For nuclear test, use Direct Transmission Method, VTM-10. See Notes 1 and 2

MATERIAL	VDOT ROAD	MINIMUM RATE OF	LOCATION	REMARKS		
AND TEST	AND BRIDGE	SAMPLING	OF			
(REF VDOT	SPECIFICATION	(REF VDOT MANUAL OF	SAMPLING			
TEST METHODS	2002 (Or Latest	INSTRUCTIONS)	SAMI ENG			
MANUAL)	Version)	<u> </u>				

(b) Density, Any Method	305.03	One (1) test per continuous section/block/or intersection	Curb, Comb. Curb and Gutter	For nuclear test, use Direct Transmission Method, VTM-10. See Notes 1 and 2,
(c) Density, Any Method	305.03	One (1) test per continuous section/block/or intersection	Sidewalk	For nuclear test, use Direct Transmission Method, VTM-10. See Notes 1 and 2.
3. Central Mix Aggregate (Treated or Un- treated) Base, Subbase, and Select Material				
(a) Density, Any Method	305.03, 308.03, & 309.05,	One (1) test per 1/2 mile or less per continuous lane application width per layer. If testing by nuclear method, each test shall consist of average of five (5) readings.	Roadway, Location of five (5) nuclear readings at randomly selected sites.	For nuclear tests, use Backscatter, Control Strip Method, VTM-10. With nuclear method, set up roller pattern and control strip for each layer or lift placed. See Notes 1 and 2.
(b) Density, Any Method	305.03, 308.03, & 309.05,	One (1) test per continuous section/block/or intersection	Curb, Comb Curb and Gutter	For nuclear test, use Direct Transmission Method, VTM-10. See Notes 1 and 2.
(c) Density, Any Method	305.03, 308.03, & 309.05,	One (1) test per continuous section/block/or intersection	Sidewalk	For nuclear test, use Direct Transmission Method, VTM-10. See Notes 1 and 2.

MATERIAL	VDOT ROAD	MINIMUM RATE OF	LOCATION	REMARKS
AND TEST	AND BRIDGE	SAMPLING	OF	
(REF VDOT	SPECIFICATION	(REF VDOT MANUAL OF	SAMPLING	
TEST METHODS	2002 (Or Latest	INSTRUCTIONS)		
MANUAL)	Version)			

4. Backfill for	302.03, 303.04(g),	Minimum one test per lift on	Alternating	For nuclear test, use Direct Transmission
Pipes and Box	401.03(i)	alternating sides of pipe for	sides of	Methods, VTM-10, See Notes 1 and 2
Culverts	X	each 300 feet of pipe or portion	structure	78B
		thereof. Test pattern is to begin		Backfill lifts shall be compacted in
	,	after first 4" compacted layer		horizontal layers not more than 6 inches
		above the structures bedding		in thickness, loose measurement. (Or as
		and continue to 1' above top of		Specified by the Contract Documents)
		pipe or box culvert structure.		19
		For rate of testing greater than		
		I' above top of pipe refer to		li li
		contract documents and Rate of		
		Sampling for embankments.		
5. Backfill for	302.03, 303.04(g)	Minimum one test every other	Perimeter of	To include drop inlets, junction boxes,
Drop Inlets		lift around the perimeter	structure	etc. For nuclear test, use Direct
		beginning after the first 4"		Transmission Methods, VTM-10, See
		compacted layer above the		Notes 1 and 2.
		bedding and continue to top of		
		the structure. Stagger tests to	ļ	Backfill lifts shall be compacted in
		ensure consistent compaction	i	horizontal layers not more than 6 inches
		effort has been achieved.		in thickness, loose measurement. (Or as
				Specified by the Contract Documents)
6. Backfill for	302.03, 303.04(g)		Perimeter of	For nuclear test, use Direct Transmission
Manholes			structure	Methods, VTM-10. See Notes 1 and 2.
		N.		Backfill lifts shall be compacted in
				horizontal layers not more than 6 inches
				in thickness, loose measurement. (Or as
				Specified by the Contract Documents)
			}	

MATERIAL	VDOT ROAD	MINIMUM RATE OF	LOCATION	REMARKS	
AND TEST	AND BRIDGE	SAMPLING	OF		
(REF VDOT	SPECIFICATION	(REF VDOT MANUAL OF	SAMPLING		
TEST METHODS	2002 (Or Latest	INSTRUCTIONS)			
MANUAL)	Version)				

		HYDRAULIC CEMENT C	ONCRETE	·
1. Sidewalk, Curb, Comb. Curb and Gutter				
(a) Temperature Measurements	217	One test per batch (truck), and when making compressive specimens.	At job site, and prior to placing concrete in forms	If test on any batch fails, recheck batch immediately before rejecting. Enter results of tests in project records.
(b) Air Content	217	One test per batch (truck), and when making compressive specimens	At job site, and prior to placing concrete in forms	Any of 3 approved methods may be used for this test. However, with any test method used, with readings indicating concrete to be outside of specification must be confirmed first with test by Pressure Method before rejection of concrete. Enter results in project records.
(c) Consistency (Slump Test).	217	One test per batch (truck), and when making compressive specimens.	At job site, and prior to placing concrete in forms.	If test on any batch fails, recheck batch immediately before rejecting. Enter results in project records.

MATERIAL	VDOT ROAD	MINIMUM RATE OF	LOCATION	REMARKS
AND TEST	AND BRIDGE	SAMPLING	OF	
(REF VDOT	SPECIFICATION	(REF VDOT MANUAL OF	SAMPLING	
TEST METHODS	2002 (Or Latest	INSTRUCTIONS)		
MANUAL)	Version)			

(d) Compressive Strength	217	For miscellaneous concrete, one set of 3 cylinders shall be made for each 250 cubic yards, with a minimum of one set of 3 per day. Any one set to be made from same batch. For structural concrete, one set of 3 cylinders shall be made for each 100 cubic yards of concrete placed, with a minimum of 2 sets of 3 cylinders each per structure per class of concrete. Any one set to be made from same batch.	At job site.	Molding and Curing Molds shall be placed on a rigid horizontal surface free from vibration and other disturbances during the first 24 hours, all test specimens shall be stored under conditions that maintain the temperature immediately adjacent to the specimens in the range of 60°F to 80°F, and prevent loss of moisture. Testing Except when high-early strength concrete is specified, compressive strength testing will be performed at 28 days.
				6

MATERIAL	VDOT ROAD	MINIMUM RATE OF	LOCATION	REMARKS
AND TEST	AND BRIDGE	SAMPLING	OF	
(REF VDOT	SPECIFICATION	(REF VDOT MANUAL OF	SAMPLING	
TEST METHODS	2002 (Or Latest	INSTRUCTIONS)		
MANUAL)	Version)			

		ASPHALT PAVEME	NT	
(a) In-Place Pavement Density by Nuclear Method (Roller Pattern)/ (Control Strip) (Asphalt Pavement)	Roads and Bridges Section 315.05 VTM-76 AASHTO T-166	Establish Roller pattern and Control Strip according to VTM-76. Ten (10) stratified random sample to establish target density. Verify nuinimum density achieved with cores per VTM-76. QC technician shall be certified and pass State proficiency	Field	Contractor/Asphalt Producer shall provide Certified Asphalt Paving Technician for density testing
(b) In-place Pavement Density by Nuclear Method and/or VDOT cores Test Section) (Asphalt Pavement)	Roads and Bridges Section 315.05 VTM-76 AASHTO T-166	Test Section- Lot Size: 5000 ft. per Lane width. Ten (10) stratified random samples per lot for nuclear gauge and/or five(5) stratified random plug/cores per lot QC technician shall be certified and pass State proficiency	Field	Contractor/Asphalt Producer shall provide Certified Asphalt Paving Technician for density testing
(c) Temperature Measurements	Roads and Bridges 211.08	One temperature measurement initially on first and fifth loads, each type mix each production day, and thereafter minimum of one per hour of production time for each mix type, by Producer's Certified Asphalt	QC - Processing or mixing plant from back of truck QA - Field	The Contractor should take and record temperature measurements of the asphalt concrete at the beginning of paving operations and thereafter at a rate of not less than one measurement every hour. The

MATERIAL AND TEST (REF VDOT TEST METHODS MANUAL)	VDOT ROAD AND BRIDGE SPECIFICATION 2002 (Or Latest Version)	MINIMUM RATE OF SAMPLING (REF VDOT MANUAL OF INSTRUCTIONS)	LOCATION OF SAMPLING	REMARKS
		Concrete Technician. If any test outside of tolerance, minimum of 3 additional tests made in different points of the load, and 4 tests averaged and average used as temperature of load or batch.		Project Officer may increase the frequency of temperature measurements at any time. The temperature should be checked using an appropriate heat-sensing device (i.e. probe thermometer, infrared thermometer, etc.).

Note 1. Density tests are reported on Forms TL-53, TŁ-54, TL-55, TL-124, TL-125 (Sand Cone Method), and TL-125A (One-Point Proctor Method).

Note 2. If there is a breakdown in the nuclear testing equipment, then density testing shall continue using other approved methods.

<u>ATTACHMENT – D</u>

COLUMBIA PIKE SEGMENT H/I EASEMENT CONDITIONS

ATTACHMENT D COLUMBIA PIKE SEGMENT H/I EASEMENT CONDITIONS

General Notes for All Properties

- Restore all disturbed area on and adjacent to the Easement areas, as nearly as practicable, to its original condition.
- Reseed (or re-sod, at the option of the Grantee) all damaged grass areas on or adjacent to the Easement areas
- Reset, or replace with nursery stock, all damaged or destroyed trees, plants, shrubbery, and hedges on or adjacent to the Easement areas
- Guarantee reset plants for two years against damage from the date they are reset and nursery stock for two years from the date of planting.

4970 Columbia Pike (7-11)

- Use of the Temporary Easement with due regard for the business being conducted on the Property
- Contractor(s) responsible for any property damage or bodily injury arising from the contractor(s)' presence on the Property
- All debris shall be removed at the end of the day
- There shall be no staging or storage of equipment or materials within the Temporary Easement or other portions of the property.
- Provide to Grantor certificates of insurance from such contractor(s), evidencing coverage
 for commercial general liability (including owned and hired auto coverage and completed
 operations coverage) with minimum limits of liability of one million dollars
 (\$1,000,000), showing Grantor and its tenant, 7-Eleven, Inc. as additional insureds.
- Grade and pave the Temporary Easement area to match the finish grade of improvements to Columbia Pike, sloped:
 - o To meet the existing grade of the Property outside of the Easement Area
 - With a grade that will not hinder access to or trash collection from the dumpster area located adjacent to the Temprary Easement Area
 - o In a manner to permit surface water to property drain from the paved area
 - o Restripe the entire parking surface at the Property, rather than just the paving in the Temporary Easement Area.
- Temporary Easement, consisting of 2,310 square feet, shall automatically expire or terminate on December 31, 2019.

4990 Columbia Pike (Infinity Apartments)

• See: "General Notes for All Purposes"

5000 Columbia Pike (Frederick Courts)

- Maintain vehicle and pedestrian ingress and egress to and from the property at all times. This may be done by constructing half of the driveway apron at a time.
- Commitments are shown on plans: (i.e. re-installation of fence, installation of steps and lead walks).

5200 Columbia Pike (Ali Service Station)

Relocate Sign Pole and Parking Lot Light Pole, as indicated on the Exhibit entitled,
 "Segment H Signing and Paving Marking Plan Sta. 193+75 to Sta. 199+50, Columbia Pike – Multimodal Street Improvements, Columbia Pike – Route 244, Sheet H17.5 of H17.9," dated May 25, 2016.

5300 Columbia Pike (The Carlyle House)

- The Temporary Easement, consisting of 1,648 square feet
 - County shall guarantee reset or replace trees and bushes for two years against damage from the date they are reset or replaced
- All debris, equipment and all other material utilized within the easement area shall be removed.

5500 Columbia Pike (Fifty-five Hundred)

• Four of the five existing benches are to be reinstalled along this frontage. The fifth bench will be removed by the contractor and placed against the building face and will be relocated by the property management to another location on the property.

5550 Columbia Pike (Wildwood Park Apartments)

 Maintain vehicle and pedestrian ingress and egress to and from the property at all times by constructing half of the driveway apron at a time.

5600 Columbia Pike (Grandview Apartments)

- Restore all disturbed area on and adjacent to the Temporary Easement area as nearly as
 practicable to its original condition, which includes but not limited to, the removal of all
 sidewalks constructed on Grantor's property in connection with this Temporary Easement
 and Temporary Easement Area
- Reseed (or re-sod, at the option of the Grantee) all damaged grass areas on or adjacent to the Temporary Easement Area
- Reset, or replace with nursery stock, all damaged or destroyed trees on or adjacent to the Temporary Easement area
- Guarantee reset plants for two years against damage from the date they are reset and nursery stock for two years from the date of planting.

5565 Columbia Pike (Columbia Condominium)

• See: "General Notes for All Purposes"

5555 Columbia Pike (Beatty Office Building)

• See: "General Notes for All Purposes"

5551 Columbia Pike (Barton Place Apartments)

• See: "General Notes for All Purposes"

5519 Columbia Pike (AHC Serrano, LLC)

• Temporary Easement, consisting of 630 square feet, shall automatically expire or terminate on May 11, 2020.

870 S. Greenbrier (The Shell)

• See: "General Notes for All Purposes"

871 S. Greenbrier (Greenbrier Apartments)

• See: "General Notes for All Purposes"

5353 Columbia Pike (The Palazzo)

- The following improvements shall be constructed in accordance with the plans titled "Columbia Pike Street Improvements Project Easement Exhibit Plan, The Palazzo Condominium 5353 Columbia Pike D07S, Sheet 15" dated June 21, 2016, attached hereto as Exhibit B.
 - Construct a new driveway apron to meet the proposed Columbia Pike curb & gutter.
 - Provide a new sidewalk along the entirety of Grantor's Columbia Pike frontage.
 - Construct a new asphalt driveway to connect back to the proposed sidewalk to the Grantor's existing driveway.
 - The existing utility pole located on the property shall be removed and overhead utilities to be relocated underground.

5001 Columbia Pike (Columbia Pike Shopping Center)

- During use of the Temporary Easement and until the Project is completed, vehicular and pedestrian access shall be maintained at the two Columbia Pike entrances and the South Dinwiddie Street entrance.
- Best efforts are to be made to only close one entrance at a time to vehicular and pedestrian traffic.
- One driveway entrance (as shown on Proposed Plan) onto Columbia Pike shall remain open at all times during construction. At no time shall both Columbia Pike entrances be closed to vehicular and pedestrian traffic.
- A retaining wall shall be installed as per the approved plan. The wall shall be per the Arlington County Construction Standards and Specifications Manual Drawing No. R-4-2 except that the face shall be stone in lieu of rubble.
- Construction drums shall be used to block parking spaces needed during construction. No more than 10 spaces shall be blocked at one time.

<u>ATTACHMENT - E</u>

BLADE SCULPTURE

Sheet Title – General Notes

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ATTACHMENT E

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STEEL MATTERALS DESIGNATED

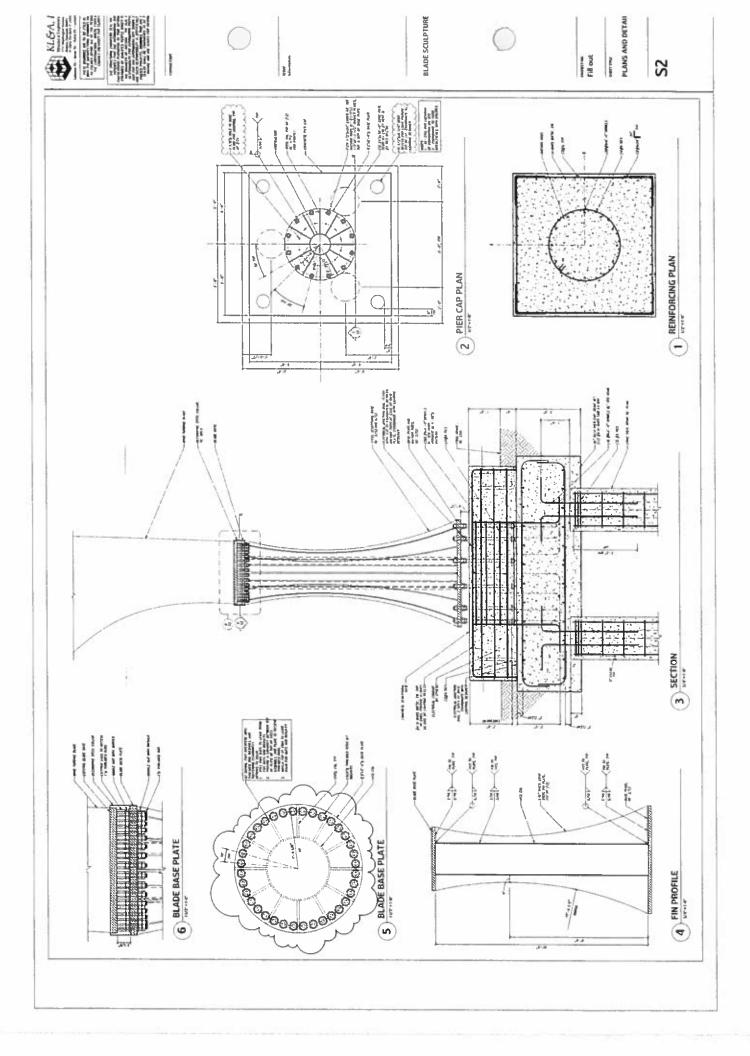
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FIXTURE SPECIFICATIONS

Type HA Burial LED Accent L - GTY 4 required - stainless steet housing

LARGE BURIAL MOUNTED LED UPLIGHT WITH CONCRETE POUR HOUSING

SMALL BURIAL MOUNTED LED FIN UPLIGHT

1444

-

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concrete pour housing includer accessory liner spread lens ... Modified with 12 power cord

OTY 4 #77146 modified wit power cord (fixture) + OTY 4 #10019 linear spread len Manufacturer Bega

Type HB Burtal LED UpLlight - QTY 12 required

- remate transformer requires tempered glass tens - aluminum housing

- 3 walt load each - narrow flood beam oplics integrated into sculpture

- IP68 rated

Type HBT Remote Transformer
(1) Ottean #O-Hex M50W-voltag
EE- 12V-5A (tranformer)
(1) Ottean #Q-TRIX-F
nsfi
enclosure

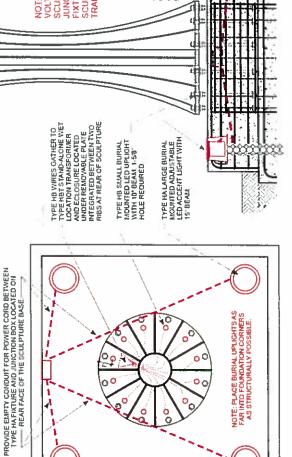
Lipski Blade Sculpture

16 NOVEMBER 2016 Lighting Plan

- factory modified 15" IIII

- Modified with 10" power cord
Mendedurer. MP Lighting
Oy 12 #1.01-W3SS-N-C-15" fit
Firish by Arts! Integral electronic power supplied with commerce of both electronic demonstration - 4000K LED color temperature - 50,000 hour raked L760 lamp | 360' rotation with lock | 0 15' stol beem optics | 15' stol beem optics | 15' stol beem optics | 16' stol be -tempered glass lens -35°C max temperature at lens

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SECTION SCALE: 3/8"=1'-0"

PIER CAP PLAN SCALE: 3/8"=1"-0"

ATTACHMENT F

ATTACHMENT - F

PLANS FOR SEGMENT H-I (To be Issued Separately)

The Plans are also available at the following links:

FULL SET - https://transportation.arlingtonva.us/wp-contenct/uploads/sites/19/2017/08/2017-05-26 DO7

DES Approved-SegmentH-I-Plan-all.pdf

PARTIAL SETS

https://transportaton.arlingtonva.us/wp-content/uploads/sites/19/2017/08/2017-05-26 DO7S DES

Approved-SegmentH-I-Plan-1of4.pdf

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Approved-SegmentH-I-Plan-2 of 4.pdf

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Approved-SegmentH-I-Plan-3of4.pdf

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ATTACHMENT - G

PRICE SCHEDULE

To be Issued Separately

ITB NO. 18-020 - ATTACHMENT G - ADDENDUM 5

PRICING SHEET

NAME OF OFFEROR OR CONTRACTOR:

PORT HIER CONSTRUCTION CORPORATION

FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT FOR THE CONSTRUCTION OF COLUMBIA PIKE FROM FOUR MILE RUN BRIDGE TO 9. JEFFERSON ST.

SEGMENT H/I

The contract resulting from this Invitation to Bid will be awarded to the lowest responsive and responsible bidder. The lowest responsive and responsible bidder will be determined by adding line items 1-257 below (Total Bid Price).

BIDDERS SHALL PROVIDE THEIR BID PRICES IN THE CELLS HIGHLIGHTED IN BLUE BELOW. BIDDERS SHALL INCLIDE A BID PRICE FOR ALL ITEMS FAILURE TO PROVIDE A PRICE FOR ALL ITEMS, OR ANY MODIFICATIONS OR ADDITIONS TO THE BID FORM MAY RESULT IN BID REJECTION.

Budders or their subcontractors shall be pre-qualified by Verizon at the time of the bid submission:

Verizon Pre-Qualified Contractor?

es z

No

If answered Yes to the above, identify the Verizon pre-qualified Subcontractor in the box below:

D.A. FOSTER

PROJECT COST BREAKDOWNS

ITEM .	ERICRIPTION CONTRACTOR	THE PERSON NAMED IN	THET	UNIT PRICE	TOTAL
40	MINISTERATE AS 15 1935		14	1628,027,30	103.617.13
7	MAINTENANCE OF TRAFFIC F. MAX		1.5	#778,0£2.73	17,54.5
3.	AC-NCCCCC		Ls	411,171.51	\$12,471,81
-				Subtotal	81,403,271,54

THE MOST	DRICKIPTION	OLI .	INIT	UMIT PRICE	TOTAL
4	PRECIPIES AND ENGLAND REQUISED TO CHARLETS THE SECTOR FROM ENGLY SAYS OF CUPEL BRADE. INCLUDING THE THEORY OF EXISTENCE PARTIES, COMMON PROTECTION FOR COURSE OF COMMON PROTECTION FOR COURSE OF COMMON PROTECTION THAT HAVE SECTOR WITHING THE ANIMAL OF CHARLET AND SECTOR OF THE ANIMAL OF CHARLET SAYS SELECT SECTION .	Evil)	п	435.71	41,624,714,9
:	EMILITURE AND ENGARTING PARTIFRED TO COMPLETE THE DESIGN OF PARTIES STATE AND THE STATE OF THE TOTAL PARTIES OF THE STATE	2.55	41	421.54	preinter
Ł	OPERMAN DATA RECENT POSSESSION OF PROPERTY OF A VERSE OF THE POSSESSION OF THE PROPERTY OF THE POSSESSION OF T	1.	-4	#39.65	\$25.65
	PURCHE AND INSTALL ARRESTS ARRESTS COMES TO THE SECOND AREA OF THE SECOND SECON	+,344	εγ	859.11	\$50,320,3
	AB SECUR IN PLACE UTILITY, SIEST (**.4*, INCIDEN ASPINO AND PERSON WITH PERSONS PIEM		2.9	\$13.65	£,£',12
4	PER /E TILLT. FIFED C'-14". INCLUSES EL F.ATILS. INCLUSEAN TIEFOLL. PARFELLIUS WITH TELET FIEL. TERLIFARY FARREST.	111	Ξź	95 t . 8 d	4,1,414.1
44	Port (Kitch	1.76	1.17	\$11.37	410,510,0
11	THEE AND STORP PERSON, 19-19, INCIDENS PRESCRIPTIONS SECURIS AND SUBSISE	2.0	žA.	6727.43	25.21.1
14	THER AD COMES FEET WAL. FT-117, IN LINES SECTIFATION INCOMES AND TORSION.	7-6	EA	\$454.ar	210,421.4
1.	THER AND STREE FREWARD, CHES IN-I'M, EDITIONS PERSONS ENDINGED AND ENDINGED AND ENDINES AND ENDINES.	12	EX.	\$79€ 01	24,552.2
14	THEE AND STREET PER VAL. THER IST-IST, INVESTIGES PERSONNELL SHEET STREET	7	EA	\$1,425.44	\$7,044,0
æ	THEE AND STORM FRONTAL STEE 14*-15*, INCLUDES PETIDARLIS INCLUDES SOCIES & TOPS 14.	3.	EA.	\$1,708.73	45.517.2
19	THEE AND STORY MERCYAL CHEM A *-15" CHIPTER PROTURATE WO TRULDING SHIELDS M TOPATED.	39	£3	\$2,842.38	22,442,4
17	TREE AND STORY PERSONAL OVER 46", ENGLOSES PERSONS SECTIONATION	:	EA.	\$2,364.02	13.184.2

				Subtotal a	11,187,811,91	
DEFINITE VIRGINIA TOWER CONSIDERED						
ITEM .	DESCRIPTION	OTE	INIT	UNIT PRICE	TOTAL	
	4" - 10 LUGT GUUTBAUF ON X SH ALL DEPTHS	7.6	ir	6426.72	\$11,146.40	
.19.	A" - E DUCT E COTRANK IN X 4H ALL DEPTHS	37	11.	\$179.82	34,557.1	
2	PT - 8 LUTT 6 47 - I DUST SUITEARY 12W X 18 6 7W X 18	153	1.1	\$445.76	\$66.366.00	
11	E" - 8 LUTT 4 4" - 1 DUST BUSTEANK (DW X 3H 4 DW X 1H)	11	19	4423.02	24.633-23	
::	ALL DEPTHS	54	LF .	\$420.75	\$39,550.50	
2.1	e" - 6 Duoi 4 4" - 3 Duoi Eurteans (1W X H 4 3W X LH All Destha	25	LF	\$415.06	\$1,3:1.2:	
24	A* + 6 DUCT & 4" + 2 DUCT DUCTEACH (OW X 3H 6 DM X 1H ALL DEPTHS	15	12	\$358.20	030,447,00	
25	ET - E DUCT : 4T - DUTT DUCTBANK (EW X 3H & 1W X 1H)		1.5	\$349.67	524,924.51	
24	FT - E DUCT INCTRANK IN H 3H ALL LEPTHS	111	LF	\$109.30	\$172,549,40	
2"	8° -4 EDGT 4 4° - I DUCT DUCTBANK HIM X ZH 4 HW X HH	262	E.P.	\$291.11	1223.24,.3	
28	6" -4 DUCT EVETRANK IN X IN ALL DEPTHS	1426	17	\$185.50	4304,317.00	

26	FT AT DOOR 1 47 - 2 BOST SUCTBANK OF F IN 1 OF F IN	:3	2.5	\$201.21	45.032.0
	\$5 AD DECT & 45 A 1 DUST CHETBASE (IN K IN & IN & IN	244	2.0	\$186.49	F23,140,40
	ALL DESTRE		LF	3185.81	559,743,00
35	6" -4 DOOR DISCREASE DW N DH ALL DEPTHS	. 14	1.9	#I'/6.2E	21.745,14
Acres and	67 -1 DUIT COUTEANY OF X IN ALL DEPTHS	10	1.F	\$149.76	25.046
	47 -4 DIST STOTERANY ON X IN ADDICATED A		1 17	809.55	\$1,781.0
_	47 -F DUCT DUCTRAD ON X DH. AGE DECTHS	36.	Lr.	4125.22 4124.85	\$1,125.80 \$4,,461.83
-	4" -1 DUCT DUCTRANY IN N IN ALL DEPTHS	229	-F	\$91.31	\$19,414.0
16	PURDISH AND INSTALL METERSAN, METER PROFESSAL, AND FIRELINGEST ONLYON	é	EA.	\$8,411.45	\$20,446.70
15	INCTAIN TOW STRIKTHIOT MARRIES - DVF DRAIL PRIVING	¥	23.	438,463,12	4231,975,73
63	MANHOLE, FRAME AND GOVERN INSTALL DIE 6/812/87° MANHOLE, TOU DHALL PROVIDE	825		A CONTROL OF THE PARTY OF THE P	
.,	MACHICLE, PRAME AND COVEN	3)	3.5	\$23,880.10	\$0,405,872.60
TO LO DE	cr+Grantiers	A	and the same	The second second	
in the second street	DESCRIPTION	OLI	TIMU	OMIT PRICE	TOTAL
	4" - B LOUT COUTBARY IN X 68 ALL DEPTHS	4.4	EF.	\$26b.9t	\$18,4.5.7
	4" - 6 LINET CHITTANN ON Y IN ALL LEPTHS 4" - 4 LINET CHITAGN ON X ON ALL ELPTHS	104	LF -	3155.34 4129.64	\$144,011.0 \$15.411.8
	4" - 3 TECT DUSTRARY IN X 2H ALL FERTHS	121	1.0	1120.54	214,145.1
45	4" - F STOT CHICEASY IN A SH ALL DEPTHS.	1351	1.7	\$109.01	\$142,642.5
45	P - 1 100T DECTEASE ALL LETTES		: F	467.29	\$1,565.
41	EDECTS AND INSTALL MACRISE 34" x 4."		EA.	\$2,955.59	11.510.15
	FURNISH AND INSTALL HAMBELS (4" x 34"		EA	\$1,337.15 \$8,495.74	\$4.54%.1 2",391.4
	The state of the s	25.00		Subtotal	1521,214.1
	Lip-restricts				est and the
MEET	DESCRIPTION 4" = 4 DUST SYSTEASY IN FIRE ACLIFETING	277	CHIT	UNIT PRICE	TOTAL
51	4" - I INCT ENTRACT IN B IN ALL DEFINE	101	19	\$123.38	39, 132 2(E, 48 D, 6
51	AT - 1 LOIT DOUTEARY AND ISSUES	3245	1.9	263.45	1412-19-1
53 3	ENERALL MARCHILL 24" K 36"		EA	\$1,117.25	47.945.4
14	INSTALL OF COMPRETE ENGAGES SPEED SIEFUE OF	45	-71	8102.34	44.6.5.3
CANTTAR	SIMER CONTINUES			F4010 C21	8255,421.5
1704	DESCRIPTION	Gzā	INIT	UNIT PRICE	TOTAL
13	CARDITARY SENDE - C* DISCIDE DARK FIRE, CLASS SI	\$23	18	8381.23	4,95,163,2
57	CASCIDATE OFFER - LIT CONTING INCO TOTAL CLASS SC	4	- 23	6411.80	41/1/242.5
£-	MADRICE PREGAST CINC. 4" 15, 5-1.	-1	Li.	49, C30, 55	
- 10	MATRICE PRESENT CORG. 4 To. 34214		-	**, (31.35	4-7-522-2
5*	TERTH > IT	(8)	1.5	\$11,215.09	Hindaho
55	MATRICE DYNAMIST SPECIAST CUE: 4" 10, 5-4 1 27778 4		EA	\$13,928.82	447,+53,4
F	MARRICLE DEPHETOR ENGLANT JEST, 4° 11, 5+2,2 (6878) 12	3	EJ.	\$16,747.59	\$23,495.4
r:	MANUFACE COUNTY OF SPECIAL COSTS ST CO. 3-1/2 CHESTER ALTERNATION AND SPECIAL COSTS CONSISTED COSTS S		IA.	419,251.40	\$16,572.*
	15		13.4		
61	PROFE EXECUTE SANCLE, CONTACT FORES		TA TA	\$12,145.51	\$12,146.5
11	COMMENT TO ENTOTING BARRITANY MARKETE	- 1		\$4,040.62	5442
	Annual Control of the		E.A.	\$4,315,27	The second second second second
51	PERSONAL SEPTICE LATERAL	- 1	EA	\$4,315.27 \$5,272,77	\$12,641.9 25.2 *
- Indiana		1		A STATE OF THE OWNER, WHEN PERSON NAMED IN	\$12,641.4
KATIR K	AIN NORK	opr	EA.	\$5,272,77 Subtotal	\$12,645.4 25,276.1 4726.186.8
KATER KO	AIN NORK DESCRIPTION FLEXILISH AND INSTALL SP- INCH MOTER MAIN SIE CO-ES	i on	EA IMIT	SS,ETE,77 Subtatal	5.2 H41.9 25.2 F 4 14.18 F
atir k	DESCRIPTION FINALSH AND INSTALL ST- INCH MATER MATE OFF CU-ST COMPLETE WITH PICTURE ENGAINMENT & ALL BINES ALL SERVER	orr ema	EA.	\$5,272,77 Subtotal	5.2 H41.9 25.2 F 4 14.18 F
atir k	AIN NEEK DESCRIPTION FLENISM AND INSTALL 12- INTH MATER PARTH DIF OL-12 INFORMATION FILENIFICHER ENGAINMENT 6 ALL STILLS ALL FERMIS FURNISM AND INSTALL 8- INTH MATER MAIN, DIF 11-52 INFORMATION FLINITHSHILL ENGAINMENT 4 ALL SERIES ALL INFORMATION FLINITHSHILL ENGAINMENT 4 ALL SERIES ALL		EA IMIT	SS,ETE,77 Subtatal	\$12,645.4 25,276.1 4726.186.8
CTEN IN	AIN GER FUNCISH AND INSTALL 12- INCH MATER MAIN DIF CU-12 COM LETE WITH PIDIETHYLEHE ENGARMENT 6 ALL EXILS ALL FUNCISH AND INSTALL 6- INCH MATER MAIN, DIF 12-52 COMPLETE WITH PIDITHYLEHE ENGARMENT A ALL EXHIP ALL TECHN	±1	EA INIT	85,572,77 Subtetal UMIX PRICE #172,66	2.2.045.4 23.2 c. 2 - 1.18 s 2 - 1.18 s
CTEN IN	AIN NEEK DESCRIPTION FLENISM AND INSTALL 12- INTH MATER PARTH DIF OL-12 INFORMATION FILENIFICHER ENGAINMENT 6 ALL STILLS ALL FERMIS FURNISM AND INSTALL 8- INTH MATER MAIN, DIF 11-52 INFORMATION FLINITHSHILL ENGAINMENT 4 ALL SERIES ALL INFORMATION FLINITHSHILL ENGAINMENT 4 ALL SERIES ALL	±1	EA INIT	85,572,77 Subtetal UMIX PRICE #172,66	2.2 e45.4 25.2 e 2 - 1.18 s TOTAL
COUNT IN	ANN SERVICES DESCRIPTION FUNNISH AND INSTALL 10- INCH MATER MARK. SIF OL-12 CONCRETE WITH PIDIESWILLINE EXCAMPAGES & ALL SERIES ALL CEPTINS FUNNISH AND INSTALL 8- INCH WATER MAIN, DIP 11-32 CHARLES WITH PIDIESWILLINE EXCAMPAGE, DIP 11-32 FUNNISH AND INSTALL 4- INDE MATER MAIN, DIS 11-32	107 171 1714	LF	#55,278,77 #ubtactal UNIT PRICE #179.66 4206.20	5.2 H41.8 23.2 H 2 T 4.114 H TOTAL 245.114.2 25.114.3
COTTA NO	ANN DESCRIPTION DESCRIPTION DESCRIPTION TRANSS AND INSTALL 12- INCH MATER MAIN DIE CL-ET LOGIETE WITH FIDURIBHIERE ENLASEMENT : ALL EXHIE ALL INFORMATION AND INSTALL 6- INCH MATER MAIN, DIF 11-52 LOWINGTE MICH PILITHONISHE ENLASEMENT : ALL EXHIE ALL FURNISH AND INSTALL 6- INCH MATER MAIN, DIF 12-13 COMPLETE WITH PILITHONISHE ENLASEMENT : ALL EXHIE ALL EXECUTE.	179	LF	#5,278,77 #ubtate1 ************************************	2.2.041.4 25.20.2 2.4.20.3 2.4.20.3 2.4.20.2 24.20.2 24.20.2 24.20.2
COUNT IN	ANN CORK DESCRIPTION TRANSS AND INSTALL 19- INCH MATER MARN OFF CU-12 COMMISSES WITH PICKETHYLETHE EXCLASEMENT & ALL SERIES ALL SEPTHS FURNISH AND INSTALL 6- THIN WATER MAIN, DIF 11-52 CHRISES WITH PILITHYTHINE EXCLASEMENT & ALL SERIES ALL SEPTHS FURNISH AND INSTALL 6- THIN WATER MAIN, DIF 11-53 CHRISES AND INSTALL 6- THIN WATER WAIN, DIF 11-53 CHRISES WITH PILITHYTHINE EXCLASEMENT & ALL MEMOR ALL SERVING FURNISHER AND INSTALL 4- THIS WATER WAIN, DIF 11-53 CHRISES WITH PILITHYMICHER EXCLASIONS & ALL MEMOR ALL SEMILES WITH PILITHYMICHER EXCLASIONS & ALL MEMOR ALL	107 171 1714	LF	#55,278,77 #ubtactal UNIT PRICE #179.66 4206.20	2.2, 441.6 25.2 % 2 - 4.16 % TOTAL 245.12 % 25.12
ATTR PO	ATH GERK FINNISH AND INSTALL 12- INCH MATER PRAIM OFF CU-12 COMPLETE WITH PIGNETHYLEHE ENCAPEMENT & ALL SENIS ALL FURNISH AND INSTALL 8- INCH MATER MAIN, DIP 11-52 COMPLETE WITH PILITHYLEHE ENCAPEMENT A ALL SENIS ALL FURNISH AND INSTALL 8- INCH MATER MAIN, DIP 11-52 COMPLETE WITH PILITHYLEHE ENCAPEMENT A ALL SENIS ALL FURNISH AND INSTALL 8- INCH MATER MAIN, DIF 11-52 ESPINS FURNISH AND INSTALL 8- INCH MATER MAIN, DIF 11-52 CHILETE WITH PILITHYLEHE ENCAPEMENT A ALL SENIS ALL FURNISHE AND INSTALL 1- INCH MATER (CUT IN FURNISH AND INSTALL 12- N PT UPDER COUT IN	2***3 272 367 347	LF LF LA LA	85,278.77 Subtatal Unit PRICE \$178.64 4206.28 \$221.49 \$175.10 \$11.371.51 \$5,806.61	20.000.000.000.000.000.000.000.000.000.
ATTR PO	ATH SURK PRINCES AND INSTALL 12- INCH MATER MAIN DIF OL-12 COMPLETE WITH PIDIETHYLESS ENGASEMENT 6 ALL EXILS ALL ESFORS FURNISH AND INSTALL 6- INCH MATER MAIN, DIF 12-52 COMPLETE WITH PIDIETHYLESS ENCASEMENT A ALL ESSUE ALL FURNISH AND INSTALL 6- INCH MATER MAIN, DIF 12-52 COMPLETE WITH PIDIETHYLESS ENCASEMENT A ALL ESSUE ALL ESFORS FURNISH AND INSTALL 4- INCH MATER MAIN, DIF 12-52 COMPLETE WITH PIDIETHYLESS ENCASEMENT A ALL ESSUE ALL ESFORS FURNISH MINISTALL 4- INCH MATER MAIN, DIF 12-52 COMPLETE WITH PIDIETHYLESS ENCASEMENT A ALL ESSUE ALL ESFORS FURNISH MINISTALL 12- M ST DES SOUT IN FURNISH AND INSTALL 12- M ST DESS SOUT IN FURNISH MAD INSTALL 12- M ST DESS SOUT IN	2002 2002 2007 2007 2007 2007 2007 2007	LF LF LA LA EA	\$5,272.77 Subtatal UNIT FRICE \$178.64 4208.28 5201.69 \$175.25 \$31,372.51 \$5,900.64 \$5,227.18	20.7 h41.6 20.7 h.7 27.6.18.8 24.1.13.2 24.1.13.2 24.1.13.3 24.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24.1.13.3 24
61 61 61 62 72 72	ATH GERK FINNISH AND INSTALL 12- INCH MATER PRAIM OFF CU-12 COMPLETE WITH PIGNETHYLEHE ENCAPEMENT & ALL SENIS ALL FURNISH AND INSTALL 8- INCH MATER MAIN, DIP 11-52 COMPLETE WITH PILITHYLEHE ENCAPEMENT A ALL SENIS ALL FURNISH AND INSTALL 8- INCH MATER MAIN, DIP 11-52 COMPLETE WITH PILITHYLEHE ENCAPEMENT A ALL SENIS ALL FURNISH AND INSTALL 8- INCH MATER MAIN, DIF 11-52 ESPINS FURNISH AND INSTALL 8- INCH MATER MAIN, DIF 11-52 CHILETE WITH PILITHYLEHE ENCAPEMENT A ALL SENIS ALL FURNISHE AND INSTALL 1- INCH MATER (CUT IN FURNISH AND INSTALL 12- N PT UPDER COUT IN	2***3 272 367 347	LF LF LA LA	85,278,77 Subtatal ONIT PAICE \$178,64 4206.28 5381.49 4275.30 \$31,971.51 \$8,900.69 \$8,1377.18 \$3,284.02	20, 041.4 25. 19. 2 16.18.8 2 16.18.8 2 17.18.1 24.112.1 24.112.1 24.112.1 24.112.1 24.112.1 24.112.1 24.112.1 24.112.1 24.112.1 24.112.1
61 61 61 91 71 72 73	DESCRIPTION TRANSPORM OF STATE OF THE WATER MAIN OFF CO-12 COMMERCE WITH FIGURE ENLARGMENT & ALL BENES ALL DEPTMS FUNNISH AND INSTALL 0- THEN WATER MAIN, DIF 10-52 COMMERCE WITH FILTERINGH ENLARGMENT & ALL BENES ALL DEPTMS FUNNISH AND INSTALL 0- THEN WATER MAIN, DIF 10-53 COMMERCE WITH FILTERINGH ENLARGMENT & ALL BENES ALL DEPTMS FUNNISH AND INSTALL 0- THEN WATER MAIN, DIF 10-53 ALL DEPTMS FUNNISH AND INSTALL 0-THEN WATER MAIN, DIF 10-53 ALL DEPTMS FUNNISH AND INSTALL 10-THE WATER MAIN, DIF 10-53 ALL DEPTMS FUNNISH AND INSTALL 10-THE WATER WATER OF THE PROPERTY OF THE WATER WATER AND THE WATER AND THE WATER WATER OF THE WATER AND T	2**2. 279 247 247 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LF LF LA EA EA EA	85,278,77 Subtatal ONIT FAICE \$178,64 4208.28 5381.49 4175.30 \$11,771.51 \$5,900.69 \$5,177.18 \$3,284.02 \$2,842.88	20, 945.4 25.7 v 4 v4.34 v 245.13 v 245.13 v 25.13 v
61 61 61 73 73 74	DESCRIPTION TRANSPORM AND INSTALL 12- INCH MATER MARK SITE CLOSE CHOCKERS AND INSTALL 12- INCH MATER MARK SITE CLOSE FURNISH AND INSTALL 6- INCH MATER MARK, DIF 12-52 CURRERS AND INSTALL 6- INCH MATER MARK, DIF 12-52 CURRERS AND INSTALL 6- INCH MATER MARK, DIF 12-53 CURRERS AND INSTALL 6- INCH MATER MARK, DIF 12-53 CURRERS MARK PROTEINFURS EXPANDEMENT & ALL BERTS ALL FURNISH AND INSTALL 4- INCH MATER MARK, DIF 12-53 CURRERS MARK INSTALL 4- INCH MATER MARK, DIF 12-53 CURRERS MARK INSTALL 12- M 12- DES 12-M 12- FURNISH AND INSTALL 12- M 12- DES 12-M 13- FURNISH AND INSTALL 12- M 12- DES 12-M 13- FURNISH AND INSTALL 12- M 13- DES 12-M 13- FURNISH AND INSTALL 12- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DE 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DES 12-M 13- FURNISH AND INSTALL 13- M 13- DE 12-M 13- FURNISH AND INSTALL 13- M 13- M 13- M 13- M 13- FURNISH AND INSTALL 13- M 13- M 13- M 13- M 13- FURNISH AND INSTALL 13- M 13- M 13- M 13- M 13- FURNISH AND INSTALL 13- M 13- M 13- M 13- M 13- FURNISH AND INSTALL 13- M 13- M 13- M 13- M 13- FURNISH AND INSTALL 13- M 13- M 13- M 13- FURNISH M 13- M 13- M 13- M 13- M 13- FURNISH M 13- M 13- M 13- M 13- FURNISH M 13- M 13- M 13- M 13- FURNISH M 13- M 13- M 13- FURNISH M	2***3 279 247 247 2 2 3	LF LF LA EA EA EA	85,278,77 Subtatal ONIT PAICE \$178,64 4206.28 5381.69 611.971.51 85,900.64 85,271.18 63,284.02 92.842.88	20.2, H40.4 25.2 % 4 14.3 % 24.3 3 % 24.3 3 % 24.3 3 % 24.3 3 % 24.3 3 % 25.3 6 % 25.3
61 61 61 72 72 73 74 73	DESCRIPTION TRANSPORM OF STATE OF THE WATER MAIN OFF CO-12 COMMERCE WITH FIGURE ENLARGMENT & ALL BENES ALL DEPTMS FUNNISH AND INSTALL 0- THEN WATER MAIN, DIF 10-52 COMMERCE WITH FILTERINGH ENLARGMENT & ALL BENES ALL DEPTMS FUNNISH AND INSTALL 0- THEN WATER MAIN, DIF 10-53 COMMERCE WITH FILTERINGH ENLARGMENT & ALL BENES ALL DEPTMS FUNNISH AND INSTALL 0- THEN WATER MAIN, DIF 10-53 ALL DEPTMS FUNNISH AND INSTALL 0-THEN WATER MAIN, DIF 10-53 ALL DEPTMS FUNNISH AND INSTALL 10-THE WATER MAIN, DIF 10-53 ALL DEPTMS FUNNISH AND INSTALL 10-THE WATER WATER OF THE PROPERTY OF THE WATER WATER AND THE WATER AND THE WATER WATER OF THE WATER AND T	1773 187 187 2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LF LF LA EA EA EA EA	85,278,77 Subtatal ONIT FAICE \$178,64 4208.28 5381.49 4175.30 \$11,771.51 \$5,900.69 \$5,177.18 \$3,284.02 \$2,842.88	\$12,045.4 25.27e \$145.13e.0 FOURL \$45.13e.0 \$54.5.2. \$11.27 \$11.27 \$2.042 \$2.042 \$2.042 \$3.042
61 61 72 73 74 72 74	DESCRIPTION DESCRIPTION DESCRIPTION TRANSS AND INSTALL 12- INCH MATER MAIN DIE 01-87 CONCLETE WITH PUBLICHMENH ENCASEMENT & AND MENCE ALL CEPTUS FUNNISM AND INSTALL 6- INCH MATER MAIN, DIF 11-52 CONTRETE WITH PUBLICHMENTE ENCASEMENT & ALL MENCE ALL FUNNISM AND INSTALL 6- INCH MATER MAIN, DIF 11-13 CONTRETE WITH PUBLICHMENTE MATER MAIN, DIF 11-13 FUNNISM AND INSTALL 6- INCH MATER MAIN, DIF 11-13 FUNNISM AND INSTALL 12- WITH MATER MAIN, DIF 11-13 FUNNISM AND INSTALL 12- WITH MEASURENT & ALL MENCE ALL FUNNISM AND INSTALL 12- WITH THE COUT IN FUNNISM AND INSTALL 12- UT IN DO RESPER MEND FUNNISM AND INSTALL 12- UT IN DO RESPER MEND FUNNISM AND INSTALL 12- UT IN DO RESPER MEND	2113 213 213 213 2 2 2 1 1 1 1 2	LF LF LF LF LA	85,278,77 8ubtnetal Unit Falce 8178.66 6206.28 5382.49 8175.20 81,371.51 85,900.93 85,337.18 83,284.92 82,842.88 82,842.89	\$12,045.4 25.278 \$124.138.5 ***TOTAL \$44.138.1 \$14.012. \$11.27 \$11.27 \$2.042.1 \$2.042.1 \$2.042.1 \$3.045.1
ef e	DESCRIPTION DESCRIPTION TRANSS AND INSTALL 12- 100H MATER MAIN SITE CLOTE CONFIDENCE MET SHAPE AND SERVER AND INSTALL 12- 100H MATER MAIN. SITE CLOTE CONFIDENCE MET AND SERVER AND INSTALL 12- 100H MATER MAIN. SITE CLOTE CONFIDENCE MICH POLITICATED EXCARDENT A ALL SERVER AND INSTALL 12- 100H MATER MAIN. SITE CLOTES AND SERVER MAIN SITE CONFIDENCE MICH POLITICATED EXCARDENT A ALL SERVER AND INSTALL 12- 100H MATER MAIN. SITE CLOTES AND SERVER MICH POLITICALL 12- 100H MATER MAIN. SITE CLOTES AND SERVER MICH STORE STORE AND SERVER AND S	2773 379 867 247 2 2 3 4 4 4 4 4	LF LF LF LF LA EA EA EA EA EA EA EA	85,278,77 8ubtatal ONIT PAICE 8178,64 4208,28 5381,69 611,971,51 85,900,64 85,227,18 63,284,02 92,842,88 42,842,84 42,842,84 42,842,88	\$12,045. \$15.79 \$16.353 \$26.134. \$46.134. \$46.134. \$54.022. \$11.27. \$2.902. \$2.742. \$2.742. \$2.842.
61 64 65 72 72 73 74 75 75 75	DESCRIPTION DESCRIPTION TRANSS AND INSTALL 12- 100H MATER MAIN SITE CLAFF CLASSING AND INSTALL 12- 100H MATER MAIN SITE CLAFF CLASSING AND INSTALL 12- 100H MATER MAIN, DIF 12-52 CHAPTER MICH PILITHSTERIC EXCARDENT 1 ALL SERIES AND INSTALL 6- 100H MATER MAIN, DIF 12-53 CLASSING AND INSTALL 6- 100H MATER MAIN, DIF 12-53 ALL SERVING AND INSTALL 6- 100H MATER MAIN, DIF 12-53 ALL SERVING AND INSTALL 6- 100H MATER MAIN, DIF 12-53 ALL SERVING AND INSTALL 6- 100H MATER MAIN, DIF 12-53 ALL SERVING AND INSTALL 6- 100H MATER MAIN, DIF 12-53 ALL SERVING AND INSTALL 12- M 12- DES SOUT 50 PROMISE AND INSTALL 12- M 12- DES SOUT 50 PROMISE AND INSTALL 12- M 12- DES SOUT 50 PROMISE AND INSTALL 12- M 12- DES SOUT 50 PROMISE AND INSTALL 12- M 12- DES SOUT 50 PROMISE AND INSTALL 12- M 12- DESCRIPE MED TRANSPORT AND INSTALL 12- M 12- DESCRIPE MED TRANSPORT AND INSTALL 12- M 12- DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 1 DESCRIPE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED TRANSPORT AND INSTALL 12- CUT 18 M 12- SERVICE MED	2113 213 213 213 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LF LF LF LF LA EA	85,278,77 8ubtatal ONIT PAICE 8178,64 4208,28 15381,69 611,971,51 85,900,64 85,277,18 63,284,02 92,842,86 42,842,86 42,842,86 42,842,86 42,842,86 42,842,86	\$12,045.4 \$5.2 Pr \$ 26.130.5 \$ 26.130.5 \$ 26.130.5 \$ 26.130.5 \$ 21.25.5 \$ 21.25.5 \$ 21.25.5 \$ 21.25.5 \$ 21.25.5 \$ 22.642.5 \$ 22.642.5 \$ 22.642.5 \$ 22.642.5 \$ 22.642.5 \$ 22.642.5
61 61 61 71 72 72 72 72 74 71 71 62 62	DESCRIPTION DESCRIPTION TRANSS AND INSTALL 12- INCH MATER MAIN SITE CLOSE CONTROL CONTROL AND INSTALL SET STANDARD AND INSTALL AND INSTA	2113 219 241 2 2 2 1 1 1 2 2 2 2 3 4 1 1 2 4 1 2 4 1 4 1 4 1 4 1 4 1 4 1 4	LA L	85,278,77 8ubtatal ONIT PAICE \$178,64 6208.28 \$178,30 611,971.51 85,900.64 85,227.18 63,284.02 92,842.88 \$2,842.86 \$2,842.86 \$2,842.88 \$2,842.88 \$2,842.88	\$12,045.4 25.27e 2 145.34 8 2 145.34 8 2 150
CTTS C C C C C C C C C	ANN SURK PRINCIPS AND INSTALL 19- INCH MATER MARN. DIF 01-12 COMMISSES WITH PIDITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- THEM MATER MAIN. DIF 11-52 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- THEM MATER MAIN. DIF 11-52 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- THEM MATER MAIN. DIF 11-53 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- N SIZE MATER MAIN. DIF 11-53 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- N SIZE SECUT OR FURNISH AND INSTALL 6- N SIZE SECUT SECUT FURNISH AND INSTALL 6- N SIZE SECUTE SECUT FURNISH AND INSTALL 6- N SIZE SECUTE SECUT FURNISH AND INSTALL 6- N SIZE SECUTE SECUT FURNISH AND INSTALL 6- N SIZE SECUTES SECUT FURNISH AND INSTALL 6- N SIZE SECUTES SECUT FURNISH AND INSTALL 6- N SIZE TAP CODMESTION	2773 359 367 247 2 2 3 4 4 4 4 4 4	LF LF LF LF LA EA	85,278,77 8ubtatal Unit Paics 8178,64 4208,28 5281,69 \$178,30 \$178,30 \$178,30 \$1,971,51 \$3,980,61 \$5,217,18 \$2,280,02 \$2,842,85 \$2,842,86 \$2,842,86 \$2,842,88 \$2,842,88 \$2,842,88 \$3,952,63 \$4,350,80	\$12,045.4 25.27e 2 145.34 8 2 145.34 8 2 150
61 61 61 72 72 72 72 74 71 71 62 62	DESCRIPTION DESCRIPTION TRANSS AND INSTALL 12- INCH MATER MAIN SITE CLOSE CONTROL CONTROL AND INSTALL SET STANDARD AND INSTALL AND INSTA	2113 219 241 2 2 2 1 1 1 2 2 2 2 3 4 1 1 2 4 1 2 4 1 4 1 4 1 4 1 4 1 4 1 4	LA L	85,278,77 8ubtatal ONIT PAICE \$178,64 6208.28 \$178,30 611,971.51 85,900.64 85,227.18 63,284.02 92,842.88 \$2,842.86 \$2,842.86 \$2,842.88 \$2,842.88 \$2,842.88	2.2, 441.0 23.2 % 2 1.4, 13 m 2 4.1, 13 m 2 4.1, 13 m 2 4.1, 13 m 2 4.1, 13 m 2 1.1, 2 m 2 1.1
CTTR C C C C C C C C C	ANN SURK PRINCIPS AND INSTALL 19- INCH MATER MARN. DIF 01-12 COMMISSES WITH PIDITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- THEM MATER MAIN. DIF 11-52 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- THEM MATER MAIN. DIF 11-52 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- THEM MATER MAIN. DIF 11-53 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- N SIZE MATER MAIN. DIF 11-53 CUMPLETE WITH PILITERVISHE ENLARMENT & ALL SERIES ALL SECTION FURNISH AND INSTALL 6- N SIZE SECUT OR FURNISH AND INSTALL 6- N SIZE SECUT SECUT FURNISH AND INSTALL 6- N SIZE SECUTE SECUT FURNISH AND INSTALL 6- N SIZE SECUTE SECUT FURNISH AND INSTALL 6- N SIZE SECUTE SECUT FURNISH AND INSTALL 6- N SIZE SECUTES SECUT FURNISH AND INSTALL 6- N SIZE SECUTES SECUT FURNISH AND INSTALL 6- N SIZE TAP CODMESTION	2773 359 367 247 2 2 3 4 4 4 4 4 4	LA L	85,278,77 8ubtatal Unit Paics 8178,64 4208,28 5281,69 \$178,30 \$178,30 \$178,30 \$1,971,51 \$3,980,61 \$5,217,18 \$2,280,02 \$2,842,85 \$2,842,86 \$2,842,86 \$2,842,88 \$2,842,88 \$2,842,88 \$3,952,63 \$4,350,80	2.2, 841, 8 25.2 % 2 27.4, 18, 8 24.1, 18, 8 24.1, 18, 8 25.1, 18, 2 25.1, 18, 2 21.1, 21.5 21.921, 2 22.942, 8 23.942, 2 24.942, 2 25.251, 2 26.251, 2 27.942, 8 28.252, 2 28.252, 2
61 61 61 72 72 73 74 73 74 62 62 62	ANN SURK PRINCIPS AND INSTALL 12- IDEA WATER MAIN DIF CL-12 COMMISSION AND INSTALL 12- IDEA WATER MAIN DIF CL-12 COMMISSION AND INSTALL 0- INCH WATER MAIN, DIF IL-52 CUMPLETS WITH PILITERISHE EXCAMPENT 6 ALL SERIES ALL FOREIGN AND INSTALL 6- INCH WATER MAIN, DIF IL-52 CUMPLETS WITH PILITERISHE EXCAMPENT 1 ALL SERIES ALL SEPTHS FIRSTOR AND INSTALL 4- INCH WATER MAIN, DIF IL-52 CUMPLETS WITH PILITERISHE EXCAMPENT 1 ALL SERIES ALL SEPTHS FIRSTOR AND INSTALL 4- INCH WATER MAIN, DIF IL-52 CUMPLETS WITH PILITERISHE EXCAMPENT 1 ALL SERIES ALL SEPTHS FIRSTOR AND INSTALL 4- INCH SEE SOUT IN FIRSTOR AND INSTALL 12- W 8- DEBUG SOUT IN FIRSTOR AND INSTALL 12- W 8- DEBUG SOUT IN FIRSTOR AND INSTALL 12- W 8- DEBUG SOUT IN FIRSTOR AND INSTALL 12- W 8- DEBUG SOUT IN FIRSTOR AND INSTALL 12- W 8- DEBUG SOUT IN FIRSTOR AND INSTALL 12- W 8- DEBUG SOUT FIRSTOR AND INSTALL 12- W 8- DEBUG SOUT FIRSTOR AND INSTALL 12- COT IN 0 DEBUGE SOUD FIRSTOR AND INSTALL 6- COT IN 0 DEBUGE SOUD FIRSTOR AND INSTALL 6- COT IN 0 DEBUGE SOUD FIRSTOR AND INSTALL 6- COT IN 0 DEBUGE SOUD FURNISH AND INSTALL 6- COT IN 0 DEBUGE SOUD FURNISH AND INSTALL 6- COT IN 0 DEBUGE SOUD FURNISH AND INSTALL 6- COT IN 0 DEBUGE SOUD FURNISH AND INSTALL 6- COT IN 0 DEBUGE SOUD FURNISH AND INSTALL 6- WET TAP COMMITTEE	\$1"3 109 140 2 2 4 3 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4	LA L	85,278.77 Subtatal TMIT PRICE \$178.64 \$208.28 \$528.49 \$575.25 \$3,960.51 \$5,287.38 \$5,287.28 \$2,842.88 \$2,842.88 \$2,842.88 \$2,842.88 \$2,842.88 \$2,842.88 \$2,842.88 \$3,962.65 \$3,962.65	23.2 mg. 4 23.2 mg. 2 mg. 48.8 700AL 245.114.2 25.114.3

	PERCONS AND DISPOSE OF EXISTING PIRE HISPANT AND SERVICE LINE TO VALVE	5.	EA.	\$1,764.19	AT. E24.4
	FUNNISH AND INSTALL SERVICE RESIDENTISH - FEW BEAVIOR LINE, TAP, CORDINATION STOP, COPPER TYPING CONTROL TO EXISTING SERVICE NAMES	:#	EX	82,987.23	\$42,654.4
				Subtotal	\$976,176,
	MIN WARK	OLA	UNIT	UNIT PRICE	TOTAL
10	PURSUES AND INSTALL US" CLINIBERS SUPE. CLASS IV ALL	1341	LF	116.12	101/2014
	PERFORM AND SECTION OF CONCRETE PIPE, CLASE BY ALL !	13.6	1.8	\$175.50	
	DEPTHS FURDIAN AND INSTALL INT SURENITE FIFE, SLASS IV AND	55755	1.5		E1.641
	FIRSTSH AND INSTALL ELF CHERETE FIFE, SLASS IV ALL	Dis.	-	\$200.17 \$210.94	130.52
	PURHICH AND INSTALL SET CONTARTS FIRE CLASS EV. ALL	- 01	-18		1,4,754.
-	PURCHAS AND INSTALL UNDERDRAIN CO-4 FEB DATEST WOOT	- 11	i.r	\$241.28	115.4"
12	POME & BAILTE STANDARD FUNDISH AND INSTALL PORTS. CR-2A or CR-2B. 4 25 ALC.	4541	18	415.92	\$15,213.
14	LENGTHS ALL ESPIRE	41	23.	44,209.00	\$114.444.
1	FUNKISH AND INSTALL FORCE, CO-LA de CO-LE. 1 (IL ALL LEMITES, ALL DEFFEC		IX.	48,427.62	111-455.
H .	PURSTON AND INSTALL FOR-1, US-1A of CS-28, (' DU ALL LENGTH), ALL DEFINS		žA.	49,119.52	29,370.
62	PURNISH AND IBITALL DODHOLAE, ALL LEGATHS, ALL ESITES	4	t.i.	#10,9#8.16	\$4
11	PURMINE AND INDIALS MH-1 OF TH-1, 4' 15 ALL DEPTES.		EA.	49,041.28	245.238.
rie	CONCRET TO EXISTING STORM MORNILE 418"-31" PRIDACE TOF WICK MEW TOE, ACCOUNT TO GRACE, EXISTING	- 11	EA I	\$2,175.12	\$14.4.7
L.S	PERSONAL TOLERAND SINE THE SECTION OF T	1"	EA.	1010121	220,488.
ADHD	ora 90.113	1100000		Fubtotal	F*15,2f1.
	DESCRIPTION	GER	INIT	THIT PRICE	TOTAL
ds	PURRISH AND INSTALL VEST STO. PK-1 PETADOSE MALL	Juli 1	38	\$117.47	1422,017.
	FIRMISH, DESTALD AND PAINT SLOT STO, HE-1 MARCHAIL FIR WALLS AND STATES		LF	\$199.60	\$110.667
				Subtotal	2542,277
	TO GOT TRIBLE DIFFERENT ALBERTANCES ENTER SERVICE STREET	PLETLIGHT :	THE THE PARTY	UNIT PRICE	TOTAL
-1	DETROFT SEMERAL STREETLISH CONTROLS, SERVICE SECRETARY OF A SPECIAL SKITCH, RESER FAST AND MISER SECRETARY	2	17.	45,214 12	110,225
14	PURMUSE AND INSTALL PURSUATIONS	67	IJ.	\$1,156.61	155.494.
1.5	FURNISH AND INTERIL CHEARINTAL ILEGI PAGE	.34	EX	427134.52	FF,5ec.
- 4	PURSEUM AND DESCRIPT OF STREET DESIGNATION ARM SPRINGET	# #	7.1.	41,325.10	160.0424
	FORGUSE AND INSTALL INCHESES ON FIXTURE ADSERTED	25.	EA.	41,247 54	147,260.
-9	FOREIGN AND INSTALL INCIDENCE STRUCK NAME OF		EA EA	\$2,829,32	418.414
	PURSON AND INSTALL OF THEM AND COMMUNITY AND FITTINGS	5125	ir ir	836.88	5,4,7e3,
	Propries And Install I' hober for sommande en process				
	AND FISTINGS	-43	1.5	\$62.54	\$19.412.
	FURDILIR AND CRISTALL 4 DAVIE BARK CORPER CUMPOUT OF	1111	1.7	81.66	11.25
2	Principe And Destall 4 sample industries correspondent	2775	Li	42_74	21.5.1
1.14	FURNISH AND INSTALL (GAUSE BARE CHOICE C.NO. OTHER	£12	27	81.66	\$1,427.
125	FURNISH AND INSTALL I SACHE DEPOLATED DIFFER CONSULTOR	9,889	10	82.54	221,32
125	PENTYE EXISTING CHERRHAR COMMADNE AND MAIT ARM		EA	4124.79	12.55*
11.	[REPORT RESISTING COMMANDAD SIGHT FOLE [REPORTS RESISTATE EXISTING CARDYLE DESIGN FOLE	3	£X	4301,57	\$4.607
114	FURNISH AND INSTALL EDESTRATIAL SERVICE AND METER TEST-	31	EA .	4927.48 #c.pec.as	\$10,694. \$12,192.
.2.1	II. FOR TRANSIT PLACEDIM: FORMULE AND INSTALL I - I* CONTACT AND FETTINGS.	155	LF	818.16	£1.96.
	THELTHER TERMINA FURNISH AND INSTALL Y = 1° CONTAIN AND FITTINGS.			The state of the s	
171	INCLUDED BORGHT FORMERS AND ENGRALS ENACE STRUCTURE BOX AND COVER TOAK	255	2.7	AT0.50	1;.,2:0.
122	4. ASE SERVICES		. £3.	41,004.20	46.025.
ırı	ME LIGHTING (PER THE SOULPTURE LIGHTING PLENS)			Subtotal	\$737,674
121	FUNCTOR AND INSTALL CONFIRME STUDYING SYSTEM INCLUDING EST NOT EINITED TO ALL CONDICT, WERDER, BISKT FINTINES, LAND TRANSPORCES, AND FINTINES, AND TRANSPORCES	÷	10	\$22,452.14	\$22,412
			1	Subtotal	521.451
_	COMMAND GEN DATEST AND MODERN COUNTY TRAFFIC SOUTHED AND			THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN	
Di	PERSONAL INSTALL OF CONCUST AND FITTINGS. INCLUDES	OTY	2012	WIT PRICE	TOTAL
124	PARRIETOS PORTER ANG INSTALL IF CONCUST AND FITTINGS: INCLUDES	201	7.1	435.88	47.331
125	TERRIBE	.41	7.8	\$36,56	121,7.4
124	9 TP (NO)	2197	LP	\$62.54	£150, 962.
	FURNISH AND INSCALL IT COMMENT AND FITTINGS, INCLUDES INDICATED	10	1.5	\$37.40	£500
12.1	PUPRISH AND INSTALL 4" CONSCIT AND FITTINGS, INCIDEN	40	18	427.03	\$1,46;
-	TPENEREN				
128		100	2.9	\$69.23	\$41,425
12 ¹ 128 129 131	TPETIONING FURNISH AND INSTALL 4" CONCUST ASS PITTERSS, INSLESS.		-	\$1,231.11	\$41,425. \$18,412.

	PURNISH AND INSTALL VEHICULAR SINGL SEAT, 1815 5-				
132	SECTIONS, JOY DESS. FURNISH AND INSTALL VEHICULAR SIDEAL BEACH TELL 45	-43	Ę, l	4507, 13	027,628.63
231	SECTION, 12º 1299 FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD, 180	41)EA	41.249.09	\$1,245.65
134	CONTROL ON THE CONTROL ACCESSIBLE PERSONAL FORM-S TITLE	35	EA	1044.61	12(-10.1)
125	STATICS AND SIGNA TS -1.2 PURSISH AND DESTAIL IT FOLARA RESET FORM MOTTON	-1	EX.	4742.54	441,324,24
:3:	PURNISH BUTES ED FURNISH AND INDIAL RUNNING READERSHIPATER TAXIDATER		EA.	\$290.06	4.,4012
12"	FUNCTION AND STOCKLES OF THE STREET OF THE FOR	- 1	E	#248,00	49.02.66
:31	ENGLES AND INSTALL CHATAGO CONTROL CHIT FOR ELEKTRIANI FINN MUSTON Q KIRK SYSTEM HORIZED SET- 1.2	1.	e.	84,240.34	B54(52)
239	PURETOR AND INSTALL RIBBAL FLOR FORELATION FEB. ANLINES AS APELIFICATIONS - LEADING MODER *:	ž.	EA	41,750.50	\$1,782,80
140	PURDICH AND SHOTALE STORAG FOLD FOUNDATION FED ARTIFICE IN EXECUTIONALITY - LEGISH NUMBER +.		EX	\$3,937.66	2",6"5,1"
-4)	FIRMIN AND INSTRUCT SIGNAL FILE PRINTATION FER ARTICUT OF SPECIFICATION - LESISH MODNEY *.A	Į.	EA	45,046.49	115/2/002*
.44	FURNISH AND INSTAGE STORAGE FOR PURPOSED FOR AND ADDRESS OF THE STORAGE FOR TH		EA	\$4,550.22	\$4,450.22
1+1	PURBLE AND INSTALL SIZEAL FILE FURNISHED FOR APIED FOR SPECIFICATION - DECISE WHERE ++		£.A	\$7,405.94	57,401,04
144	PRESIDE AND INSTALL STREAM FOLE, CHRAMESTAL , THANS	10	33.	\$11,2:1.57	111.15.35
145	CONTON AND INSTALL ADDRESS FOLK COMPANIES 4 " MACE		13.	412,967.22	
148	ANY FORTH AND INSTALL SINGAL BINE ORGANISMA 417 SEAT	-	EA.	STATE OF STREET, SAN OWNER, SAN	14
	ANN FORESTON AND INSTALL SILVAL SILE CANAMISTAL SILVALLE			\$14,596.37	£4.598.1°
14	MATERIAL STATE STA		EA.	\$16,464.55	102,529,05
111	NACE THEN HAVE AND	-	8.2,	#22,494.53	112,456,55
144	NOT THE NOT ARE	3.	12.5	420,973110	\$24,975,40
193	FIRST H AND INSTALL STRUMENTAL BEST DISTRICTS AND INSTALL STRUMENTAL BEST DISTRICTS AND INSTALL STRUMENTAL BEST DISTRICTS AND AND ADDRESS		I,A	\$1,345.6 y	13,519,41
15.	AND THE AREA SECTION AS AND AND A SECTION AS	120	21	42.55	44.3.47
155	427	17.9	DF	81.49	215 +51-15
143	TIMETON AND INSTALL ASSAULT CAREEL STRUCTURE, NAME AND	5.4	CF .	\$1.49	\$1,614.60
414	FIGURE AND INSTALL CLOSE COMME. A CHICAGO F. B. 14	1:1	21	82-21	\$25,000.50
154	FOREIGN AND INSTALL PROPERTIES FOR FOREXCENS TO 8-2	4	25	\$945.61	41.81.31
158	PURPLE AND CHICAGO SCRIPTIAL CHARGES AND ROOMS TOTAL		E2.	\$6,000.35	\$17,159.10
15	PERSONAL AND INSTALL OF PERSONAL POINTS OF THE PERSON	- 8	EA	61,022,85	45.2.5.4
199	FORT R AND ORDINGS OF BRIDGE STATE OF SECRITAL STAR		EX	80,041.71	A1.44
12.4	PENNIN EXISTING STRAIN FIRST PRINCASS NO.	- 25	Ξλ	\$1,467.58	414.475.40
140	PROFITE EXPOSITION 1925 APR Indian Profit Applications	- 2	EA	12,669186	45.80072
10)	PENCIE EXILIZIONI PETECTAT PILE PILES FILLATICES	5.	此人	\$780.93	\$\$,9,4,75
182	PERSON EXECUTED TRAFFIC CONTROL CARDING AND BACK	1X	EA	9841.15	4(4), 5
165	PERCON EXECUTING STATE MOTE MANY AND STATE		£λ	\$1.50.55	22(4.1)
16+	PERCONE EXISTING SIZEAL MEALS PERCONE EXISTING SERVICIAN SIZEAL MEALS	33	EA EA	#1.17.13 #150,19	32, 144, 81 24, 144, 40
111	FER OF ENTOTING PERSONNEL FOR PARTY NO AND STORY	40	EA.	\$147,01	47,414
10	PERSON ESTATISM MIRITA	1245	137	\$0.02	115,419,00
38.5	PRESENT EXCORREG JUNITION BOX	ŧ.	Eλ	\$723.30	12, (51.15)
170	PA-MUTER EXISTING DAY CLOSE N. M.	- 1	EA	6397.70	\$1,551.61
	ADTION EXECUTION PERTAINMENT PLANNING BEAUTH OUSTED AND PROSTRIK SEPRRATION SURVING SURVEY STREET		EX.	\$5,117.19	46.517.14
177	PURPLE AND INSTALL STREETS CARREST BY SUITSMARK	ž.	EX	621,125,14	441,2874
172	PURDLESS AND INSTALL BATTERY EACHYR STOTICH UPG	-	EA	\$6,452.20	133,434,13
19	FOREIUM AND INSTALL CONTRIGUES CHALSES FOREIGNICS TOX-	3	EA.	4917.83	1,,431.46
274	PURPOSE AND SHOTALL EMPRENCY VEHICLE PRESMYTTING (RESULTION - OPTICAL DETRICTS)	- 95	Eλ	\$041.78	Fi2, (\$1.+1
179	TORRIGH AND INSTALL EMERAGED VEHICLE PRESENTING DETECTION - LINESTHERMORE MODINE	- 3	EA	\$4,352.49	\$13,147.47
174	FIRSTER AND INSTALL EMPROSMON VENICLE PREEMPTION OFFICER PREEMPTION	2219	LF.	\$2,54	11,118.00
277	FIRMING AND INSTALL THERMAD THAPPED DETERMINE - DAMENA	- 38	ga.	41.347.51	\$14.558.45
276	TITUDE AND INSTACT THEFHAL SHAFFIC DETECTION - DESCRIPTION CARDS	25 %	:1	\$2.56	\$212°#0.#1
110	TRUTION AND INSTALL THEMSAL TRAFFID LETECTORS - INCEPTAGE EXISTRIPIT	15	EX.	#11.27P.30	254-194.14
180	PURSUES AND INSTALL COTY CAMERA ADDRESS DOLLINGS COTY UNIT AND COTY ENCIDED.	1	EX	49,231.42	\$24.354.26
167	FURILIN AND INSTALL COTY CAMERA ASSEMBLY - LEAD-IN	561	LF	423,26	43,447.45
152	FURNISH AND INSTALL ETHERRET INITION (TS 7-17	1	EX.	43,231 81	14,615,64
101	FORGER AND INSTALL COMMETER INCOMMENDAL CONTRACTORS	1	Eλ	\$1,492.73	26,555.46
204	FUNCTION AND INSTALL STREET BANK STON HOSSITED ON MART.	#1	SF	\$62.54	45,645,74
185	FUNCTION AND INSTALL SIZE PAREL	111	SF.	444.53	41,421,46
181	TRAFFIE LISUAL AS-MILLY ECONOMICATION	34	1.5	acontra at Hansal	19,198.22
100	FURNISH AND INSTALL SLAES ST WOOD FOLK FURNISH AND INSTALL SEAR WINE	352	EX	\$2,096.04	45.342.16
+17	THE PART OF THE PA	397	LF	#14.25	15,133,60

119	FUNCTION AND INSTALL DETHER WIFE	367	LF	£115p7	\$4,319.21
150	FLANISH AND INSTALL MUSERISM TYPE PUBLICATION AND SIGN TST-1	4	EX	8460.24	\$1,641.9
141	PORRIGH AND INSTALL POLE HIGHTED TRAFFIC STORAL CONTROLLER, GARLSET, AND METER		23	\$22,639-05	\$27,434,0
167	FURNISH AND INSTALL FIRES COID CONCING BIX PERSON EXISTING FIRES COIDS DESCRIBE BIX	4	EA EA	\$1,761545. \$745.33	2745.8
.64	FUNCTION AND INSTALL IN-STRUCT FIRST SPEED CHAIR	241	12	44.16	41,491.4 3114.4
LFS.	DISCONDECT. FULLBACK. AND READER STREET CARLES	14.	2.9	44.78	1525.1
i figh	FURNISH AND INCIALS FIRST FINES CARLES	100	17	842.74	1,,214,
10.	PENDYE AND RELOCATE FEBER CONFER CABLES	- 1	EA.	35,163	4247.4
Suf	PURNISH AND INSTALL FIRES PATHS PARKS ASSESSED.	_ :	EA	\$773.26	1771-2
fer	PENSON AND NEUGRAPH PERSON PARKET ASSEMBLY	- 1	FA.	\$1,705.73	\$1,036.0
250	PENGUE AND RELOCATE FIRED UPTIC SPLICE ENGLGSIPE	-	EA	\$1,592.03	41.552
211	MICHES EXISTED FIRST OFFIC SPLICE ESCINSIFE	2	£7	\$2,682-93	31,682,4
TIET	Herovents			Fubtotel	1991,371,1
	DESCRIPTION	gtx	UNIT	THIT PRICE	TOTAL
2-7	FURIER AND INSTALL CUSE & WITTER, G-1, G-18 of b- 1.5 G-1 MUTERIED 11" AND TALLEY GUTTER : AUD 1.8 AVERLANT BAIR. INSISTS CURE & AUTTER 518 DELIVERY APRILS NOT USE MANCE.	+515	ž.F	252.49	425 (1.27.1.4)
2.1	FIRSTON AND SECTAGE HEALER COME. S-1 (CS) . F-1 ASS. JUN ADDRESASE BASE	2742	3F	\$27.22	\$217.40.2
: 4	CUTSING AND INSTALL SINEARLY STE S-1. WITH S* LIB ADDREADE BARE, LETS FARCION METAL ENGINE TRADITION CONTRACTOR PARKS	714		477.24	\$50.,\$17.00
752	PURBLISH AND TRUMPACH STREAMER STR. 9-1. MICH 47 CLB.	19-	29	. 854.53	14,,319.2
200	FIRSTING AND INSTALL SPAY SPECTABLE MARKING STRANK ESP (5-12 COME PARSE AND SPARSES STATE FOR	1746	28	628.44	\$15,475.
C7A	PUBLICH AND INSTALL STOCK PROFILED BY SALE STOCKS ENTRACE AND TAKE TO COMPUTE STATE 9-1-48 AND 8-1-48 AND THE ASSESSMENT BASE	45-	22	\$120.00	459,845,50
5.7k	FURNISH AND INITIALS OF OUR DEER COMPOSATE DEFINENCY DEFENDED ARCHITUM COURTS FROM BOOK AS FOR LO DEFENDED TO THE PROPERTY OF A TO DESCRIPTION OF ANY LIP ADDRESS FOR A STOCKASE AT PRESENTS COURTS ONE GALACON, AND PRESENTED	ate	-7	\$235.00	ži nitori.
2.4	FURNISH AND INSTALL -* CONSERS STREET STREET STREET	1	3162	1477.69	24,576
6.4	FUNCTION AND INSTALL FULL SPENS FARMENT SERVICES FOR SCALL STAR BED IN INSTITUTE IT IN WIL SO. AT INVIOLE TO PRIVATE BASE AND INT SERVICE FELL ARRESTS IN THE ALL AND EXCLUSIVE STARRANCE STARRANCE STARRANCE STARRANCE STARRANCE.	. 14		\$175.02	\$2,452,4°3.3
	PURBLE AND INCIAL SUID DEFIN BUT FAR DESCRIPTE OFFIA.E. 15 THE ADMINISTRATE BASE AND 15 CHEST FILL APPLIED STRUME FOR LATEST VIVIE BUAL AND RAIDER STANDARDS	114	ev.	\$161.4E	124,711.1
	FURNISH AND INSTALL FULL SEPIM PAREMENT ASSISTED FOR FRE TATE THE SMALL FURNISHING MESTIC THE STATE OF LIA 4° 80 - 25 m. 12° 13° ADDRESS MAIL AND 12° DELEMIT FULL APPRISE DISTANCE FOR CALESY FURL FUR. AND SMILES TRANSPORT	št.	£Y C	495.04	1.7.511.5
2	PRACTICE AND INCOME. FULL CAPTE PARTICLES DESTRUCT FOR EFFICANT DESCRIPTION WOULD INCOME. OF ANY CONTRACT OFFICE AND ADDRESS OF THE AVAILABLE MACK AND LET CHEET FULL PARTICL CAPTURE CONTRACT FOR THE PARTICLE PROPERTY OF THE CAPTURE STANDARDS.	24	E7	8144.82	\$44,27112
25.)	WINDERS OF MELITIC AND CORRESPONDE FOR TAXBET	45.	SY E	\$23.43	110,479.5
211	FULL DEPTH DAW DUT DE ADERAGO AND/OR CONCREDE	3"11	LF	12.14	14,471.
			-	Subtotal	\$2,476,387.0
Menter	INCOMPATION	1111111	SEE SEE		
Z I	FUNCTION - EXSTALL AND MAINTAIN TREE PROTECTION VENTION	OTY	LI	Mil baics	TOTAL
216	FUNCER ATT INSTALL PER MARLE, 37 CAL		EA .	\$4,45	\$14-573.4 \$2-473.1
1.	FURNISH AND INSTALL BUXERSIACH, IL' FIR BE.	24	EA I	4311.72	14,278,0
21.1	FURFICIR AND INSTALL BLACK GEN, 1° CAL	44	EA !	\$494,64	10403
2.5	Principle And Instruct William GAF, 3" GAL.	14	EA	4494.86	110,411.
223	FUNCTION AND INSTALL AMERICAN LINCOL, 1" CAL. FUNCTION AND INSTALL FUNCTIONS CONSIDER, A"-8" Min. HT	-21	ZA	3494.86	\$12,310.5
221	1840		EA	\$255.36	1255.1
277	FURNISH AND CHUTAGO SHOTE FINE, 10" MIR. MC., BAS	1	EV	.4341.15	11/123.4
223	PERSONNE AND INSTALL PERSONNEL S GAZ. CONT.	10	EA .	\$23.45	±548.4
-	PERSONAL INITALS MEA GREEN CONSIDERS. 3 GAL. COST.	12	D.	\$28.43	25(4,4
221	PERSONNE AND INSTALL PERSONNE SIME, 11' MIN ST.	1	E	#375.28	Fi.Elli.
224	FURNISH AND INSTALL EASTERN RESELD, C'-6' HT.		EA.	4253.66	40,3007
22"	FURNISH AND INSTALL MINTER FIND MANTHUM, 6'-0' MT. FURNISH AND INSTALL SHPIRE, DARLEAF MYLHANGEA.	21	EA	\$255.\$F	19,446.0
228	CIDMENS HYDRANGEA, ISPEERRY HOLLY ISSEED SHOWN IN PLANS:	215	Es.	\$29.57	14,357,5
210	FURNISH ANT INSTALL GRACES, ATTIMES GLOW MORLY GRASS, INDICASE LAW SECTION GRASS, GROWING STRAIN, FRATHER REED GRASS, CATHURY ASTRES SHOWS ON PLANS	4:65	EA	622.74	\$94,833.0

215	FURNISH AND INSTALL BES MILEN IT-IT	175	<i>\$1</i>	\$77.93	\$14.522.75
231	FURNISH AND INSTALL SIL ARLINGTON COUNTY STEEL 25010 CREP 37 OF TUP SULL CHEP PREFAREL SURFALE.	6787	82	\$4.26	524,542,22
232	BACKFILL (TOP SOLL	421	67	#102.34	\$63.614.65
233	2 YEAR THEE WATERING AND MAINTENANCE (INCLUDES). MATERING, MILLSONS, AND MERCING	4	13	#6,004.15	10:0.43

981-104C)	nedelegatio payment harkinge (per latest hetto)						
тен	DESCRIPTION	OTT	INIT	UNIT PAICE	TOTAL		
214	Install 4" white IP WELLTW THEMSELASTIC LINE	4573	LF	40.77	41.5.1.11		
198	SHUTACE 6" MOUTE DO VELLOW, 10" LONG, 31" SEMIONS, THERMOGRAPHS DINE	2834	1.7	\$4.77	12.142.14		
236	INSTALL OF WHITE THEMSTEATING LIST (1713 BARD	39:	10	\$1.48	\$2,527.23		
2.5	INIDATE 14, MALLE DISSECTIVATED TIME (DATABASE)	1++4	:1	28.34	\$15.712.56		
231	INITALL IN WHITE THE PROPLETION LINE	1,05	1.6	\$3.02	42, 411, 4		
110	INSTALL 4" NICE, TELL'N DIVELE LISEO 4" AFAFT, TREPRIVILATIO LINES - RETERLISES	\$473	17	41.53	\$2,219.35		
241	DESTALL WHITE SINGLE APPEN THERMSPLASTED TUPS APPEN	14	1,3	\$117.60	14,475.40		
24.	INSTALL WHITE COMMINATION AND RETREMEDIATES TORO		EA.	2215.21	\$4.0.00		
242	DRITACE OF THE WHITE THERMISEASTED SAVENDED LETTERS	34	D.	2109.03	4*21.41		
243	INSTALL OF WHITE, POLICES, LOT STATESO, THESP PLACES -	10	12	47.02	14.4 4.4		
244	INSTALL LIT WHITE OF YELLTW. DOT SPACING AT 45 EMBER.	- 4	2.0	45.34	45.7.1		
245	INSTALL WHITE EMERGRADACTED PAYENDET COMEST	1	84	3408.04	10.111.0		

ITEM	SEIGHTION	OLA .	TMIT	THIS PRICE	TOTAL
246	PERCHE AND REPLACE EXISTING STREET SIGN, MATERIALS FURNISHED BY CONTRACTOR	49	EA	6164.29	15.4.5.5
247	PUBLISH AND ISSTALL HEW STREET SINN WITH SIGH POTT NOT TRAFFIC LICENAL SIDERT NAMES	- 41	2.4	\$341.15	21,121,

TEM D	ESCRIPTION	GIX	UNIT	UNIT PRICE	TOTAL
741 5	BAT THEIR BIX TEPTERAL ADDITIONED HALL DESIGNED	14	EA	8454.18	21.117.41
240 A	EN TE ADT INSTALL PE, CATEG EUS SHEETEN, IN ISLE HEN DINN B. 170 (FINAL PRICADING SHEET		EA.	62,276,39	\$5,0 redSalts
25 12	THE THE ACT MEDICATE EXCEPTION OF AS AS A CONTROL OF THE ACT MADE. THE SOUTHWARD ACT	*		411,571,51	4,3,27,3
	ENTER A PETIAL FROM THE MAIN SINCE PROTE STORES OF CONTINUE PROPERTY AND RESIDENCE.	7.1	16	624.48	\$1,525,71
247	Me ve AND RETLATE WITH NEW CELTS-PAIL FINCE CITE OF F EXCEPTION SERVE ALL MELIANTS	14	TF.	621.37	45,455.2
	ropotom initali ani maintain siet fence 3, 5 - de doca recoi o a colomot o otela kanto y	1,144	-1	63.42	24,044,7
254	CARRIES IN CALL AND MAINTAIN COMES OF TRATES A " " "THE STREET OF SELECTED CONTROL BRIDGES OF SETALL ""ALL WICKS WELF	-3	р	\$454.89	12,174.1
	PURCION INCIDED AND MAISTAIN INCHES PROTECTION SUTTER	81	£λ	# 321.7E	410.251.44
256 7	CENTER ARE INSTALL PRINCIPLIAN BENCH	16.	53	42,501.71	247.337.67
12. 1	FURNISH AND INSTALL BUTE WALF		Ex	6796.01	15,500.00

<u>ATTACHMENT – F</u>

PLANS FOR SEGMENT H-I (To be Issued Separately)

The Plans are also available at the following links:

FULL SET – https://transportation.arlingtonva.us/wp-contenct/uploads/sites/19/2017/08/2017-05-26 DO7

DES Approved-SegmentH-I-Plan-all.pdf

PARTIAL SETS

https://transportaton.arlingtonva.us/wp-content/uploads/sites/19/2017/08/2017-05-26 DO75 DES

Approved-SegmentH-I-Plan-1of4.pdf

https://transportation.arlingtonva.us/wp-contenct/uploads/sites/19/2017/08/2017-05-26 DO7 DES

Approved-SegmentH-I-Plan-2of4.pdf

https://transportation.arlingtonva.us/wp-content/uploads/sites/19/2017/08/2017-05-26 DO7 DES
Approved-SegmentH-I-Plan-3of4.pdf

https://transportation.arlingtonva.us/wp-contenct/uploads/sites/19/2017/08/2017-05-26-DO7S DES

Approved-SegmentH-IPlan-4of4.pdf

ATTACHMENT - G

PRICE SCHEDULE

To be Issued Separately