



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
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February 22, 2012

Contract No. T200301601.01
Federal Aid Project No. ESTP-K137 (2)
CARTER ROAD (K137)
Kent County

Ladies and Gentlemen:

Enclosed is Addendum No. 1 for the referenced contract consisting of the following:

NOTE: The date for the receipt of bids has been moved to Thursday, March 1, 2012.

1. One (1) page, Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.
2. Two (2) pages, Table of Contents, pages iv and v, revised, to be substituted for the same pages in the Proposal.
3. Six (6) pages, Special Provisions, 759502 - Field Office, Special I, pages 141A through 141F, new, to be added for the same pages in the Proposal.
4. Ten (10) pages, Utility Statement, pages 165 through 174, revised, to be substituted for the same pages in the Proposal.
5. One (1) page, Right of Way Statement, page 175, revised, to be substituted for the same page in the Proposal.
6. Three (3) pages, Environmental Statement, pages 177 through 179, revised, to be substituted for the same pages in the Proposal.
7. Fourteen (14) pages, Bid Proposal Forms, pages 1 through 14, revised, to be substituted for the same pages in the Proposal.
8. Two (2) pages Bid Proposal Forms, Breakout Sheet 1, Item 614508 - Water Main and Accessories, new, to be added to the Proposal.
9. One (1) page, Bid Proposal Forms, Breakout Sheet 2, Item 7372523 - Planting, new, to be added to the Proposal.
10. Eight (8) sheets, Construction Plans, sheets 7, 8, 18, 20, 24, 44, 63 and 79, revised, to be

substituted for the same sheets in the Plan Set.

11. For proposal holders with the electronic bid option only, Amendment Disk No. 1.

Questions and Answers:

1. In our specs for this project, we do not have a breakout sheet for the planting items. I went on your web site and the specs on the web site does have a breakout sheet, so I assume that it has been left out of our specs. Can you please e-mail me a breakout sheet so I can put in our specs?

Addressed in Addendum No. 1.

2. The Traffic Officers and Flagger items in the Bid Proposal Forms are not fixed price items. Normally, these are fixed price items. Does Deldot plan to change this?

Addressed in Addendum No. 1.

3. Will Deldot consider adding Special Provision 763626 - Diesel Fuel Cost Price Adjustment, since this contract is in excess of 365 Calendar Days?

Special Provision 763626 will not be made part of the contract.

4. For item 727015, Monuments, I can't find any specification. Is there a specification or construction detail available for this item?

Please refer to the Supplemental Specifications, section 727015 and the standard details for information on the item.

5. The following items were not present in the Bid Package I purchased; however, I noticed they are present in the RFP in your website. Can Deldot please provide these since I cannot bid with the forms provided on the website?:

1. Utility Statement
2. ROW Certificate
3. Environmental Statement
4. Breakout Sheet for Item 614508, Watermain
5. Breakout Sheet for Item 737523, Planting

Addressed in Addendum No. 1.

6. Contract book is missing all Utility Statements.

Addressed in Addendum No. 1.

7. Ref bid item 612529 is shown at 8794 lf. The newly installed storm sewer is 8064 lf. Where is the difference shown?

A revised quantity for the item will be included in addendum #1.

8. Please clarify note 18 under section 700 on plan sheet

The note calls for tubular markers to be provided on concrete islands at locations specified in the note. The note also states that no separate payment will be made for the markers.

9. Is DI-88 supposed to be a 66" x 30" inlet?

Yes.

10. The quantity for items 708050, 708052, 708053, 708111 are not correct.

Revised quantities for the items will be included in addendum #1.

11. There is no bid item for MH 2 which is a 48" x 48" manhole.

The item and quantity will be included in addendum #1.

12. Quantities for bid item 708585 and 708586 appear to be reversed.

Revised quantities for the items will be included in addendum#1.

13. Proposal quantities fro item 612021, 612022, 612205, and 612216 are not correct.

The proposal quantity should be bid for item 612061. Revised quantities for the remainder of the items in the question will be included in item #1.

14. No unit prices for Traffic Officers or Flaggers.

Addressed in Addendum No. 1.

15. On plan sheet 81 - Construction Phasing, Maintenance of Traffic and Erosion Control Stage 3, it shows a "Wide Bay Attenuator" at the intersection of SR6 & Wheatley's Pond Rd. There are no specifications or line items in the RFP for this item. A 24" Quadguard CZ nor a standard TRACC unit will provide protection for 2 runs of barrier wall that come together at this location. Is there to be an addendum for this item?

Quantity for furnishing and installing the attenuator is included in proposal items 720532 and 720534. The attenuator should be bid under those items.

16. Message Boards - Is it the Department's intention to have message boards notifying traffic of the New Traffic Pattern for the majority of the job? If message boards are out 10 days prior to the 3 detours, that totals 140 days of advanced notice. Are the remaining days for displaying New Traffic Pattern?

The message boards are intended to be used throughout the entire project as needed, in accordance with the special provision for the item.

17. Sheet 79 of the plans mentions payment for millings under Item 763646. No Item 763646 in bid tabs.

The payment item number will be changed on the plans part of addendum 1 to #763500.

18. Ref plan sheet 109, hydrant at station 15+20 57 ft of centerline are we relocating the existing hydrant or is this a new hydrant?

The fire hydrant is to be relocated from its existing location at the intersection.

19. What is the intent of showing detail 3 on plan sheet 111?

The detail is for information only. No utility relocations are proposed at the location.

20. Ref water main relocation on plan sheet 112 station 129+16 to 131+23, will the water main be shut down to make these tie-ins? If yes who operates the water valves to make the shut down? Are we to assume that we will have a dry shut down?

The water main will be shut down to make the tie-ins at the location. The valves are owned and maintained by the Town of Smyrna. The shut-down must be coordinated with them.

21. Per page 81 of the specs indicates there is supposed to be a breakout sheet for bid item 614508. We have no breakout sheet included in our bid package. There are numerous areas where mechanical joint sleeves will be needed to complete the tie-in to existing water mains. These sleeves are not noted on the drawings. Will they be included on the breakout sheet?

A breakout sheet for the item will be included in addendum #1. The lump sum price for the item includes connecting to the existing main.

22. Where are the specs for the water main material, hydrants and hydrant branch material, tapping sleeves and valves, and water service piping found?

In accordance with SP615508, the standard specifications of the owner, The Town of Smyrna govern the material and quality requirements of the water main relocation work. These standard specifications should be acquired from the owner.

23. The plans call for Soil Retention Mulch Type 4 & Type 5. There is not bid item for this work in the bid proposal form. Will a bid item be added to the bid proposal form for Soil Retention Mulch Type 4 & Type 5?

Mulching is incidental to the bid item 743013, Permanent Grass Seeding.

24. The project calls for the landscaping to be accomplished in multiple stages but does not estimate the time of year. So there is the possibility of summertime planing. Can all the planting work be accomplished between the time period of December to May?

The planting must be done within the time periods included in the standard specifications. The specifications do allow for the specified time periods to be extended or reduced according to weather and soil conditions at the time and at the discretion of the engineer.

25. DELDOT does not have prices for flaggers established in the bid, is this a change in practice?

Flagger items will be changed to fixed price as part of addendum #1

26. Page 79 of Plans, Stage 2 Temporary Sidewalk, calls for payment under Item 763646. There is no Item 763646 in the proposal.

The payment item number will be changed on the plans part of addendum 1 to #763500.

27. Page 80 of the Plans note under the box titled Stage 2 Carter/Sunnyside says: Moving or relocating PCC Safety Barrier is incidental to Contract. If this is the case, what is the 1757 LF of Item 720506-Relocating Portable PCC Safety Barrier for?

Relocating the PCC safety barrier will be paid for under item #720506, per the special provisions.

28. Per the full depth reclamation notes contained on typical sheets (plan sheet 8 for example):

- A. Is the 3" milling of the existing travel way paid under the milling item?

Yes, the 3" milling is paid for under item #760507, Profile Milling, Hot Mix

- B. How is the contractor paid for placing the millings in area excavated beyond the existing roadway?

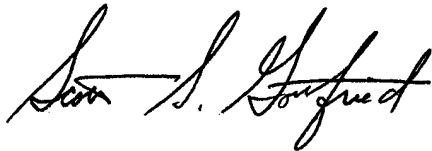
There is no separate payment for placing the millings in the widened area. The costs are incidental to item #760507.

- C. Is the depth of excavation in this area 6"?

The depth of excavation varies based on existing roadside grades. The widened area must be excavated as needed to meet proposed grades.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,



Scott S. Gottfried
Competitively Bid Contracts Coordinator
:ssg
Enclosures

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T200301601.01

FEDERAL AID PROJECT NO. ESTP-K137 (2)

CARTER ROAD (K137)

KENT COUNTY

ADVERTISEMENT DATE: January 16, 2012

Completion Date 439 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DELAWARE DEPARTMENT OF TRANSPORTATION
AUGUST 2001

Bids will be received in the Bidder's Room, Transportation Administration Center, 800 Bay Road, Dover, Delaware until 2:00 P.M. local time **THURSDAY, March 1, 2012**

LOCATION	<u>i</u>
DESCRIPTION	<u>i</u>
CONSTRUCTION ITEMS UNITS OF MEASURE	<u>ii</u>
GENERAL NOTICES	<u>1</u>
SPECIFICATIONS	<u>1</u>
CLARIFICATIONS	<u>1</u>
ATTESTING TO NON-COLLUSION	<u>1</u>
QUANTITIES	<u>1</u>
REQUIREMENT BY DEPARTMENT OF LABOR FOR SWORN PAYROLL INFORMATION	<u>1</u>
PREFERENCE FOR DELAWARE LABOR	<u>2</u>
CONFLICT WITH FEDERAL STATUTES OR REGULATIONS	<u>2</u>
EQUALITY OF EMPLOYMENT OPPORTUNITY ON PUBLIC WORKS	<u>2</u>
TAX CLEARANCE	<u>3</u>
LICENSE	<u>3</u>
TO REPORT BID RIGGING ACTIVITIES	<u>3</u>
CONVICT PRODUCED MATERIALS:	<u>3</u>
NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)	<u>4</u>
STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)	<u>4</u>
TRAINING SPECIAL PROVISIONS	<u>8</u>
INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT & TRANSPORTATION EQUITY ACT	<u>9</u>
DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM SPECIFICATION	<u>9</u>
CRITICAL DBE REQUIREMENTS	<u>11</u>
GUIDANCE FOR GOOD FAITH EFFORT	<u>12</u>
REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS	<u>13</u>
I. GENERAL	<u>13</u>
II. NONDISCRIMINATION	<u>14</u>
III. NONSEGREGATED FACILITIES	<u>17</u>
IV. PAYMENT OF PREDETERMINED MINIMUM WAGE	<u>18</u>
V. STATEMENTS AND PAYROLLS	<u>22</u>
VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR	<u>23</u>
VII. SUBLETTING OR ASSIGNING THE CONTRACT	<u>24</u>
VIII. SAFETY: ACCIDENT PREVENTION	<u>24</u>
IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS	<u>25</u>
X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT	<u>25</u>
XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION	<u>26</u>
XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING	<u>28</u>
DIFFERING SITE CONDITIONS	<u>29</u>
PREVAILING WAGES	<u>30</u>
PREVAILING WAGE REQUIREMENTS	<u>30</u>
PREVAILING WAGE DETERMINATION - Highway Construction	<u>31</u>
APPLICABILITY OF DAVIS-BACON LABOR STANDARD PROVISIONS TO FLAGGERS	<u>33</u>
ALL AGENCY MEMORANDUM NO. 130	<u>33</u>
SUPPLEMENTAL SPECIFICATIONS	<u>35</u>
SPECIAL PROVISIONS	<u>37</u>
CONSTRUCTION ITEM NUMBERS	<u>39</u>
MODIFICATIONS TO REQUIRED FEDERAL CONTRACT PROVISIONS	<u>40</u>
401502 - ASPHALT CEMENT COST ADJUSTMENT	<u>41</u>
271502 - BIORETENTION FACILITIES	<u>42</u>
272503 – TRASH RACK	<u>44</u>
302514 – MILLED HOT-MIX BASE COURSE	<u>45</u>
304508 – BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	<u>48</u>

401651 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)	51
401654 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 70-22	51
401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	51
401699 - QUALITY CONTROL/QUALITY ASSURANCE OF BITUMINOUS CONCRETE	57
401713 - EMULSIFIED ASPHALT	73
401752 - SAFETY EDGE FOR ROADWAY PAVEMENT	74
501527 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 9"	75
602793 - CULVERT MODIFICATIONS	77
612529 - PIPE VIDEO INSPECTION	78
612535 - CLEANING DRAINAGE PIPE, 15" - 24" DIA.	80
612536 - CLEANING DRAINAGE PIPE, GREATER THAN 24" DIA.	80
614508 - WATER MAIN AND ACCESSORIES	81
708512 - DRAINAGE INLET, SPECIAL I	83
708513 - DRAINAGE INLET, SPECIAL II	83
708514 - DRAINAGE INLET, SPECIAL III	83
708585 - JUNCTION BOX, 48" X 30"	84
708586 - JUNCTION BOX, 48" X 48"	84
712506 - GABIONS	85
712527 - TURF REINFORCING MAT	87
720506 - RELOCATING PORTABLE P.C.C. SAFETY BARRIER	89
720532 - INSTALL PORTABLE IMPACT ATTENUATOR	90
720534 - FURNISH PORTABLE IMPACT ATTENUATOR	90
720539 - RELOCATE PORTABLE IMPACT ATTENUATOR	90
720567 - FURNISH AND MAINTAIN PORTABLE P.C.C. SAFETY BARRIER	92
720585 - GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1 - 31	94
720611 - FLEXIBLE DELINEATOR, PERMANENT	96
737523 - PLANTING	97
743504 - WARNING SIGNS	99
743507 - TEMPORARY BARRICADES, TYPE III	99
743525 - TEMPORARY WARNING SIGNS	99
743551 - FURNISH AND MAINTAIN REMOTE COMMUNICATION PORTABLE CHANGEABLE MESSAGE SIGN	102
744506 - CONDUIT JUNCTION WELL, TYPE 7, 36" x 60" PRECAST POLYMER CONCRETE	104
744520 - CONDUIT JUNCTION WELL, TYPE 1, 20" x 20" PRECAST CONCRETE	104
744523 - CONDUIT JUNCTION WELL, TYPE 4, 20" x 42 1/2" PRECAST CONCRETE	104
744505 - ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	106
744525 - REMOVAL OF EXISTING JUNCTION WELL	107
745521 - SUPPLY OF 4" SDR-13.5 HDPE CONDUIT	108
745524 - SUPPLY OF 4" SCHEDULE 80 PVC CONDUIT	108
745527 - SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	108
745528 - SUPPLY OF 2" GALVANIZED STEEL CONDUIT	108
745529 - SUPPLY OF 1 1/2" GALVANIZED STEEL CONDUIT	108
745542 - INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT - DIRECTIONAL BORE	110
745544 - INSTALLATION OF CONDUIT IN UNPAVED TRENCH	110
745547 - INSTALLATION OF ADDITIONAL CONDUITS IN TRENCH OR OPEN CUT PAVEMENT	110
745548 - INSTALLATION OF ADDITIONAL CONDUITS IN DIRECTIONAL BORE	110
745551 - REMOVAL OF CONDUIT FROM WOOD POLE	114
746774 - SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	115
746776 - LOOP DETECTOR SPLICE	117
746830 - REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	119
746847 - POLE BASE TYPE 3	120
746850 - POLE BASE TYPE 4	120
747505 - INSTALLATION OR REMOVAL OF BASE OR PAD MOUNTED CABINET	122
747506 - CABINET BASE	123
748548 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	

748530 - REMOVAL OF PAVEMENT STRIPING	124
748553 - PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	134
749687 - INSTALLATION OR REMOVAL OF TRAFFIC SIGN ON SINGLE SIGN POST ...	135
749690 - INSTALLATION OR REMOVAL OF TRAFFIC SIGN ON MULTIPLE SIGN POSTS	139
753548 - SANITARY FORCE MAIN ADJUSTMENT, 1 3/4"	140
759502 - FIELD OFFICE, SPECIAL I	141
760507 - PROFILE MILLING, HOT-MIX	141A
763500 - MAINTENANCE OF TRAFFIC	142
763501 - CONSTRUCTION ENGINEERING	144
763508 - PROJECT CONTROL SYSTEM DEVELOPMENT PLAN	149
763509 - CPM SCHEDULE UPDATES AND/OR REVISED UPDATES	153
UTILITY STATEMENT	153
RIGHT OF WAY CERTIFICATE	165
ENVIRONMENTAL STATEMENT	175
BID PROPOSAL FORMS	177
BREAKOUT SHEETS	181

753548 – SANITARY FORCE MAIN ADJUSTMENT, 1 3/4”

Description:

This work consists of relocating the existing Sanitary Force Main as shown on the plans and as directed by the Engineer.

Materials and Construction Methods:

All materials and work shall be in accordance with the Delaware Department of Transportation Standard Specifications and with the Town of Smyrna’s Standard Specifications and details for Sanitary Sewers, latest editions.

Method of Measurement:

This item will not be measured directly.

Basis of Payment:

This item will be paid for at the Lump Sum price bid and which price and payment will include all work and materials necessary to complete this item.

8/19/11

759502 - FIELD OFFICE, SPECIAL I**Description:**

The field office work shall consist of furnishing, erecting, equipping, maintaining, and removing a singlewide modular office and adjacent parking area. The Contractor shall submit a specific location layout drawing and construction details for the proposed field office and its parking area for approval by the Engineer. The field office and parking area shall be for the exclusive use of Department Officials, Engineers, Designers, South Region Construction (SRC) Personnel, Consultants, and Inspectors.

The field office structure shall be free of asbestos and/or other hazardous materials. The field office and its parking area shall be constructed and installed in accordance with all applicable city, county, state, and federal codes. The Contractor shall be responsible for obtaining all required licenses and permits for installation and placement of the field office and its parking area. The costs of obtaining such licenses and permits to be incidental to the "Field Office, Special I" Item. The field office shall be available for use by the Department continuously throughout the duration of the project.

Construction and Equipment:

The field office shall be new and have a minimum floor space of 600 square feet with minimum exterior dimensions of 50'-0" length by 12'-0" width. The floor to ceiling height shall be nominal 8'-0". The exterior walls, ceiling, and floor shall be insulated. The field office shall be of weather-proof construction, tightly floored and roofed, constructed with an air space above the ceiling for ventilation, supported above the ground, safely secured to its support if the support is an inground anchored foundation or otherwise by tie-downs to the ground, and fully skirted with rigid watertight covering overlapping the bottom of the exterior siding to the existing ground.

The Contractor shall provide entries to the field office by constructing a stair and deck platform with canopy at each exterior door. These entries shall be fabricated using treated dimension lumber, be constructed with hand and safety railing, be designed to last the life of the Contract, and conform to the requirements of the Architectural Accessibility Board and other federal, state and local boards, bodies and/or courts having jurisdiction in the Contract limits.

The Contractor shall construct and maintain an all weather parking area adjacent to the office of at least 2500 square feet and having a minimum of 10 functional parking spaces striped for full size cars. All weather pathways from the parking area to the entrances of the field office shall also be constructed and maintained. This parking area and entrance pathways shall have a minimum of 2" type "C" hot mix on top of minimum 6" graded aggregate subbase. Snow and/or ice shall be removed from the parking area and from the entrance pathways to the field office within 12 hours after each occurrence. Costs for furnishing, placing, and maintaining the aggregate base and hot mix, and for snow and/or ice removal, to be incidental to the Field Office, Special I" Item.

The ground area 30'-0" from around the perimeter of the field office to the field office shall be landscaped and maintained. If the earthen grounds do not have a stand of weed free grass, the surface of this area shall be loosened to a depth of 4" and a satisfactory seedbed shall be prepared free of debris and extraneous matter. The area shall be seeded to a healthy stand of grass or sodded, after which the area shall be watered, mowed, and trimmed a minimum of three times a month during the growing seasons. Cost for this landscaping and maintenance to be incidental to the "Field Office, Special I" Item.

The field office shall have full carpeting, kitchenette facilities, and interior and exterior paneling, lighting, and plumbing fixtures. The field office shall have a minimum of two (2) exterior doors, each door having a passage and a deadbolt lock. These door locks shall be keyed and at least 2 complete sets of keys shall be supplied to the Engineer's representatives. The exterior doors shall be insulated or have storm doors. The field office shall have a minimum of six (6) windows, each window having a minimum glass area of 1150 square inches and a horizontal mini-blind covering the full glass area. The windows shall be insulated or have storm windows. All windows shall be equipped with a locking device. All doors and windows shall have screens installed and repaired when damaged.

At least two (2) outside water service connections shall be provided at the field office. Each water

connection shall have a 3/4" frost proof hose bib with vacuum breaker and shall include 100 linear feet of 5/8" minimum diameter reinforced, industrial or commercial grade, soft rubber hose per connection.

The field office shall be provided with sufficient natural and artificial light and shall be adequately heated and cooled to provide comfortable working conditions.

The field office shall have satisfactory lighting, electrical outlets, heating equipment, exhaust fan, and air-conditioning connected to an operational power source. Plan and drawing areas shall have individual fluorescent lights situated over their worktables. Replacement fluorescent lights shall be furnished as required. Electrical current, water, and any fuel for heating equipment shall be furnished and the cost of such shall be borne by the Contractor. Maintenance of the heating, exhaust fan, and air-conditioning equipment shall be provided for by validated service contracts for the length of the Contract. These service contracts shall allow a Department authorized project person to deal directly with the service organization to request repair.

The Contractor shall furnish and maintain two fire extinguishers and provide one lighted "Exit" sign for each exterior passage door. Fire extinguisher(s) may be chemical or dry power and shall be UL Classification 10-B:C(min.) and shall be suitable for Types A:B:C fires. A commercial or industrial type first aid and safety kit suitable for project conditions and hazards (including snakebite) shall be provided and maintained to full capacity on a monthly basis.

The Contractor shall provide an alarm system for field office security with electronic, direct connection to a security service provider. The security system shall have interior motion, window, and entrance detectors and built in manual fire alarm. All windows of the field office shall be covered with steel bar grids as a deterrent to forced entry. The Contractor shall provide validated monitoring and service contracts for the length of the Contract. These contracts shall allow a Department authorized project person to deal directly with the security service provider to request service and/or repair.

The Contractor shall furnish and maintain an adequate supply of cold potable water, a minimum 23 cubic foot new refrigerator, and a minimum 900-watt new microwave oven. Maintenance of the potable water supply equipment, refrigerator, and microwave shall be provided for by validated service contracts for the length of the Contract. These service contracts shall allow a Department authorized project person to deal directly with the service organization to request repair.

Suitable indoor toilet facilities, conforming to the requirements of the State and Local Boards of Health or of other bodies or courts having jurisdiction in the area, shall be provided. When separate facilities for men and women are not available or required, a sign with the wording "Rest Room" (letter heights 1" minimum) shall be placed over the doorway and an adequate positive locking system shall be provided on the inside of the doorway to insure privacy. The facility(s) shall be maintained by the Contractor to be clean and in good working condition and shall be stocked by the Contractor with adequate lavatory and sanitary supplies at all times during the period of the Contract.

The Contractor shall be responsible for performing or for making arrangements for all necessary telephone connections and/or for their maintenance; for providing a new telephone equipment system, for payment of all connections and the new telephone system equipment and its installation; and for final disconnection of the telephones.

The field office telephone system shall have a total of 5 lines consisting of 2 direct single lines with call forward busy feature, 2 dedicated computer use line with broadband connection for either DSL or cable, and 1 dedicated facsimile line and have 5 key sets consisting of 1 master key set having privacy feature, and 4 four-button key sets having privacy feature (1 set which may be for wall mounting), all for the official and exclusive use of the Engineer and other representatives of the Department. Arrangement shall be made to allow a Department authorized project person to deal directly with the telephone company to report outages and/or request repair. Monthly billings for the field office telephone system shall be received and paid by the Contractor. A copy of each bill shall be forwarded to the Project Resident for reimbursement on the subsequent contract pay estimate. The reimbursement will be for the amount of the bill only and shall not include any additional mark-up or profit.

For all other utilities, the Contractor shall be responsible for performing or for making arrangements for all necessary utility connections and/or for their maintenance; for payment of all utility connections, installations, service fees and bills; and for final disconnection of utilities.

The field office interior shall be furnished by the Contractor. The Contractor shall provide new and maintain the following office furnishings, all which are to be approved by the Engineer prior to installation in the field office. Placement of these furnishings shall be as directed by the Engineer. 6 full size office desks each with filing drawer and fully adjustable ergonomic design swivel chair with armrests and five leg base having wheel casters, 1 computer station with acoustical panels having minimum 60 NRC rating for privacy screen and fully adjustable ergonomic design swivel chair with armrests and five leg base having wheel casters, 1 large conference table for a minimum of 12 people with surrounding chairs with armrests, 2 folding tables minimum 6'-0" by 3'-0" each with ergonomic design straight back chair with armrests, 1 work table, 1 supply cabinet, 2 rough plan racks, 2 legal size filing cabinets with 4 drawers, 2 legal size fire-resistant filing cabinets with lock and key with 4 drawers and meeting fire underwriters' approval for not less than one hour test, 2 book shelves minimum 3'-6" by 4'-6", 3 vertical surface legal size three compartment pockets, 2 dry erase boards minimum 4' by 3' each with markers and erasers, and 2 cork bulletin boards minimum height 3' by 2'. These office furnishings will remain the property of the Contractor at the conclusion of the project.

The Contractor shall also furnish new and maintain the following office equipment, all which are to be approved by the Engineer prior to installation in the field office. The required equipment will enable the Department to synchronize project record keeping and office functions. The equipment shall be delivered in working and useable condition:

2 heavy-duty calculators having extra large 12-digit fluorescent display, full size keyboard with contoured keys, two-color ribbon printer, and AC powered;

1 compact plain paper copier/printer/fax machine and cabinet with stationary platen, bypass feeding, and dual loading cassette system with cassettes for letter, legal, and ledger size paper. Copy machine to have zoom and preset reduction and enlargement features, automatic two (2) sided copying, automatic document feeder with minimum 30 sheet capacity, and 20 bin collator with automatic stapling capacity; with all necessary software, equipment, and cables for general operation as well as connection and sharing on a local network;

1 desktop model, compact facsimile machine with automatic paper cutter, 10-sheet feeder, halftones with 16 levels of gray, 50-number auto dialing, answering machine hook-up, large LCD readout, date and time stamp, and advanced telephone features;

1 DVD camcorder with on-screen programming, full-range auto focus, high-speed shutter, high-resolution, bookmark search, time-lapse recording, rechargeable batteries and charger, tripod, SD memory card, and protective carrying case;

1 telephone answering machine having all-digital recording, 14 minute message capacity, selectable message time, voice prompt assistance, day/time stamp, call screening, two-digit LED message indicator, toll saver, power failure memory back-up, and message interrupt from any station; and

2 digital cameras with minimum 1/2.7" 4.0 mega pixel, 3X optical / 6X precision digital zoom, 12-bit DXP A/D conversion, 2.5" 123K pixel LCD display, 5-mode program AE and each with dual media slots, SXGA/XGA/VGA image resolution, E-mail mode. Also intelligent flash with red-eye protection, MPEG movie mode, clip motion, light metering, TEXT mode (GIF), playback zoom and resize, white balance, lithium battery system and in-camera picture effects, memory stick/card (minimum 1GB) capability, and storage case.

Consumables as required to manage the business of the project shall be provided for all office equipment for the length of the Contract. These consumables shall be furnished on request and shall include but not be limited to paper, tapes, ribbons, rolls, toner, cleaning kits, and batteries, camera batteries and memory sticks and/or discs, DVD and CD R/RW media, etc.

Maintenance of all office equipment shall be provided for by a validated service contract for the length of the Contract. This service contract shall allow a Department authorized project person to deal directly with the service organization to request repair.

Included in the unit price bid per month for the Field Office on this project will be two (2) IBM compatible

Microcomputer Systems both which will be furnished and maintained by the Contractor for use by the Engineer. The specified computer systems will synchronize the construction management functions of the Department to monitor, report, and perform the accounting of the project work. The computer systems and all their related equipment specified below shall be furnished new and remain the property of the Contractor at the conclusion of the Contract. A detailed listing of the proposed computer systems and all their related equipment to be provided by the Contractor shall be submitted for approval by the Engineer prior to furnishing the Microcomputer Systems. The Microcomputer Systems shall be Laptop Computer Systems each with docking station. Each of the two (2) Microcomputer Systems shall consist of:

Central Processing Unit (CPU) – Lap Top

Pentium M processor, 740 (1.7 GHz) or better with integrated USB 2.0 and IEEE 1394 ports (firewire) and wireless networking included,

Minimum 1.0 GB RAM with expansion capability to at least 3.0 GB and clock/calendar card equivalent, and

Microsoft "Windows® 7" operating system;

Memory (Storage)

CD/DVD +/- RW with double layer write capability, and 100GB hard drive minimum, integrated Ethernet 10/100, and internal modem. Included software shall support double layer media writing and automatic backup of data;

Monitor (Flat Screen)

Monitor for docking station and docking station - Super Video Graphics Adapter (SVGA) minimum. 19" minimum diagonal visual area flat panel with .26 dot pitch capable of multiple frequency 256 color graphics and at least 1024 pixel resolution. Swivel base with low radiation and eyestrain protection, brightness and contrast control and

Laptop - shall have 15.4" display minimum;

Color Graphics Card

Card must be SVGA AGP interface with 64 MB onboard video memory having maximum resolution of at least 1280x720 with at least 16 bit color and video control hardware and software;

Keyboard

Keyboard shall be ergonomic, enhanced layout minimum with keyboard interface cable;

Printers

HP Desk Jet color printer or latest model with photo quality print capability and with all necessary software, equipment, and cables for general operation as well as connection and sharing on a local network;

Software

The latest version programs for application management (operating system), word processing, spreadsheet, and anti-virus shall be provided with all user manuals. Upgrades, maintenance, and full technical support by the manufacturer shall be provided for the length of the Contract. The required software will enable the Department to synchronize accounting and record keeping functions between the project, District, and Department offices. A list of programs to be provided shall be submitted to the Engineer for approval. Software, other than for application management and anti-virus, is to be delivered unopened to the Department's administrative office. All software is to be compatible with and for use to run on "Windows® XP Professional". The required applications software follows and is to be latest version unless noted:

office suite - "Microsoft® Office Windows 7",

antivirus - "McAfee® Total Protection for Small Business, software supporting creation of DVD +/- R/RW disks (supporting double layer media writing) and DVDR and DVDRW disks using DVDRW drive, for example: Ahead Nero, Roxio DVD/CD Creator, or some equivalent product. Note: software commonly included as part of the standard CDRW upgrade/standalone package is acceptable if included with the unit;

Related Equipment

Wireless networking hub/router (802.11g or better) with all associated hardware (adapters, cables, etc) and soft to enable wireless networking and internet connection sharing for all office computers and printers,

An electrical outlet with dedicated circuit for the main computer unit,

An optical mouse with proper driving software having complete Microsoft emulation,

Necessary cables for proper operation,

An uninterruptible power supply (UPS) units for protection from power loss or fluctuation, minimum of 6 outlets, adequate to provide a minimum of 30 minutes backup power for an orderly shutdown of the computer system with software and connections for automatic system shutdown,

24 bit Sound Blaster compatible PCI soundcard with quality desktop speakers,

A combination surge, spike, and noise protection device with receptacles for all peripherals (may be in combination with the UPS power supply),

A wrist rest suitable for use with the furnished keyboard,

An anti-glare filter with grounding wire suitable for use with the furnished monitor, and

All cards, hardware, and operating, anti-virus, and equipment software to be fully installed and operational;

Maintenance and Service

Maintenance of all specified equipment and components shall be provided for by a validated service agreement for the length of the Contract. Maintenance (upgrades, replacement, full technical support) for each software application shall be provided for by validated maintenance agreement for the length of the Contract. These agreements shall allow an authorized project person to deal directly with the service organization to request repair or the maintenance organization to request assistance; and

Supplies

Consumables as required to manage the business of the project shall be provided for the Microcomputer Systems for the length of the Contract. These consumables shall be furnished on request and include but not be limited to memory stick media for provided digital cameras, DVDR and DVDRW media compatible supporting operational minimum to maximum speed of the DVD/RW drive unit, cut sheet paper and labels compatible with the printers, hardware and screen cleaners, and toner cartridges.

Maintenance of the field office including its adjacent parking area, for the time required, shall consist of maintenance and/or replacement of all provided items, security system, furniture and equipment, computer systems, providing lavatory supplies, providing trash containers and waste baskets, providing entrance mats at each door, providing replacement items for lighting fixtures, maintaining all utilities, providing satisfactory and sanitary janitorial and waste disposal services twice a week, providing cleanup of trash and debris on the parking lot and landscaped area once a week, and shall be included in the monthly unit cost.

The Contractor shall provide and deliver a current copy of all validated field office, equipment, and computer maintenance, service, assistance and/or monitoring agreements and/or contracts as mentioned hereinabove to the Department's administrative office on or before the first day the field office is ready for use.

Method of Measurement:

This item will not be measured but will be paid for on a monthly basis. Partial months will be paid at the rate of 0.033 months per day.

Basis of Payment:

The field office will be paid for on a unit price bid per month, which price shall be full compensation for performing the work specified and the furnishing of all materials, labor, tools, equipment and incidentals necessary to maintain the field office and its adjacent parking area and restore the field office area and adjacent parking area to match the original site condition. No separate payment will be made for costs involved for removing hazardous material or underground tanks to install these offices or the parking area.

Payment will be made only for the actual number of months that the office is acceptably provided by the Contractor.

The field office shall be ready for use not later than thirty (30) calendar days after the date of the fully executed Contract and before construction operations begin.

2/2/12

760507 - PROFILE MILLING, HOT-MIX
760508 - PROFILE MILLING, CONCRETE

Description:

This work consists of furnishing a pavement-milling machine or cold planer and planing the existing bituminous concrete pavement or P.C.C. Pavement at the locations and to the nominal depths shown on the Plans and/or as directed by the Engineer to obtain a smooth profile on the existing roadway surface. Unless otherwise noted on the Plans or specifications the Contractor shall reuse, salvage and/or dispose of the milled material.

Equipment:

The milling equipment shall be a commercially designed and manufactured milling machine capable of performing the work in a manner satisfactory to the Engineer. The machine shall be power-operated and self-propelled, shall have sufficient power, traction and stability to remove a thickness of material to a specified depth. In addition, the machine must accurately and automatically establish profile grades by referencing the existing pavement surface. This shall be accomplished by means of 1.) a ski of 30' (9 m) minimum length with an accuracy of $\pm 0.125''$ in 30' (3 mm in 9 m) or 2.) a minimum of three (3) ultra sonic, non-ground contacting sensors with an accuracy of $\pm 0.100''$ in 25' (2.5 mm in 7.5 m). If noted on the Plans, a profile grade shall be established independent of the existing pavement surface. In such case the machine shall be capable of following the independent grade line (e.g. string line). The machine shall have an automatic system for controlling grade elevation and cross slope. The machine shall also be equipped with a means to effectively control dust generated by the cutting operation.

Construction Methods:

The surface resulting from the planing operation shall be in accordance with notes and details on the Plans and shall be characterized by uniform, discontinuous longitudinal striations and shall not be gouged or torn. Imperfections exceeding 5/16" (8 mm) at any point along the surface as a result of missing teeth or faulty operation shall be removed by approved methods.

Before opening the milled surface to traffic, all loose material shall be removed from the surface with a power vacuum sweeper.

Whenever the milling operation causes water to pond or lay within the wheelpaths of the roadway the Contractor shall alleviate this problem by cutting bleeders into the shoulder or median to provide positive drainage. Cost for such work will be incidental to this item.

If the road is to remain open to traffic, longitudinal vertical drop-offs in excess of 2" (50 mm) at lane lines or at the centerline shall not be left overnight.

Transverse faces at the beginning and end of the milling operation existing at the end of a work period shall be tapered 20:1 or flatter in a manner approved by the Engineer to avoid a hazard for traffic.

Surface material that cannot be removed by cold planing equipment because of physical or geometrical restraints shall be removed by other methods acceptable to the Engineer.

If independent grade reference is required, it shall be designated in the Plans and/or Contract documents and elevations shall be provided by the Plans or at the direction of the Engineer.

If a severe bump exist in the pavement surface extra effort shall be taken at these locations to improve the profile. Manual changes to the cutter head may be needed at these locations to achieve this. It is the intent to remove bumps and irregularities in the pavement and produce a smooth milled surface for hot-mix resurfacing.

If the existing bituminous surface is over concrete the intent is to remove all of the existing bituminous material to the top of the concrete surface unless otherwise directed by the Plans or the Engineer.

If milling to remove open graded hot mix, the milling operation must remove all of the open graded hot mix from the roadway surface.



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. Box 778
DOVER, DELAWARE 19903

UTILITY STATEMENT
STATE CONTRACT #T200301601
F.A.P. #ESTP-K137(2)
PROJECT I.D. #04-00159
CARTER RD. (K137), SUNNYSIDE ROAD TO WHEATLEY'S POND RD.,
SMYRNA
NEW CASTLE COUNTY

The following utilities maintain facilities within the limits of this project:

DELMARVA POWER – ELECTRIC DISTRIBUTION
CHESAPEAKE UTILITIES - GAS
VERIZON DELAWARE INC.
COMCAST CABLEVISION, INC.
TOWN OF SMYRNA – WATER & SEWER
TOWN OF SMYRNA - ELECTRIC
KENT COUNTY - SEWER

DELMARVA POWER – ELECTRIC DISTRIBUTION

Delmarva Power Electric maintains aerial and underground circuits on Verizon and Delmarva Power electric owned poles along Sunnyside and Carter's Roads within the project limits. Delmarva proposes to relocate aerial facilities to new utility poles placed by Verizon. The Delmarva Power Electric owned service poles and pad mounts will require the following adjustments/ relocations:

Station 311+65L. – remove pole and wires
Station 312+80 L. - remove pole and wires
Station 314+00 L. - remove pole and wires
Station 208+35 L. – move pole back 40'
Station 206+75 L. – move pole back 15'
Station 204+40 L. – move pole to Station 204+90, 40' L.
Station 202+65 L. - move pole back 8'
Station 73+25 R. – remove pole and attach to new Verizon pole
Station 67+45 - move padmount 15' back and relocate all cable
Station 70+02 - move padmount 5' back and relocate all cable
Station 72+45 - move padmount 5' back and relocate all cable
Station 211+75 L. - move padmount 5' back and relocate all cable

Delmarva Power Delivery would require **sixty (60) calendar days** to complete the proposed distribution work following **thirty (30) calendar days** advance notice to proceed.

Note: For exact location, please contact Miss Utility at (800) 282-8555. 16 Del. C. § 7405B Overhead High-Voltage Line Safety requires notification to and mutually agreeable measures from the public utility from any person intending to carry on any function, activity, work or operation within dangerous proximity of any high voltage overhead line. All contractors/other utilities must also maintain a distance of 10'-0" from all energized lines.

Any additional relocations/adjustments to any existing electric lines/poles shall be arranged, if necessary, with the owners during the construction of the project. The time to complete any additional relocations/adjustments will depend on the nature of the work.

General

No existing electric facilities can be taken out of service until the replacement facilities are installed and in operation.

CHESAPEAKE UTILITIES (GAS)

Chesapeake Utilities Corporation (CUC) owns and maintains gas main located within the limits of construction of above mentioned project. Based on the Revised Preliminary plans CUC proposes the following relocations:

Proposed Relocation – Carter Road

1. STA 25+10, extend existing stub out of proposed roadway and behind proposed sidewalk. New main will be installed 1'-6" deeper than existing main to avoid conflict with under drain.
This work will take approximately 2 working days.
2. STA 28+90 to STA 31+00, install new main to avoid conflict with proposed drainage pipe (P21). New gas main will be installed behind the proposed side walk. Approximately 200' of 4" PL main to be installed. Install a 2" temporary by-pass. Abandon existing main in place.
This work will take approximately 4 working days.
3. STA 35+90, drop existing gas main in place 1'-0" to avoid conflict with drainage pipe (P29).
This work will take approximately 2 working days.
4. STA 37+68, drop existing gas main in place 1'-0" to avoid conflict with drainage pipe (P32).
This work will take approximately 2 working days.

5. STA 38+75, drop existing gas main in place 1'-0" to avoid conflict with drainage pipe (P35).
This work will take approximately 2 working days.
6. STA 40+25, drop existing gas main in place 1'-0" to avoid conflict with drainage pipe (P96).
This work will take approximately 2 working days.
7. STA 68+63, extend existing stub out of proposed roadway and behind proposed sidewalk. New main will be installed 2'-0" deeper than existing main to avoid conflict with drainage (P80).
This work will take approximately 2 working days.
8. STA 71+55, drop existing gas main in place 1'-0" to avoid conflict with drainage pipe (P81).
This work will take approximately 2 working days.
9. Any conflicts with street lights will be addressed during project construction.

This work is intended to be performed as advance relocation prior to the start of this project. It is the Contractor's responsibility to verify the status of the proposed relocation work prior to submitting bids.

It is estimated that Chesapeake will need approximately 20 working days to complete the proposed work

Any additional relocations/adjustments to any existing gas lines shall be arranged, if necessary, with the owners during the construction of the project. The time to complete any additional relocations/adjustments will depend on the nature of the work.

General

No existing gas facilities can be taken out of service until the replacement facilities are installed and in operation.

VERIZON DELAWARE INC.

Verizon Relocations

- Verizon maintains both aerial and underground facilities within the project limits, consisting of Copper and Fiber Optic cables.
- Sta. 311+65 R, 24 ft - Relocate pole to edge of existing sidewalk, after steel pole has been removed. Swing existing conduits to new pole location.
- Sta. 311+65 L - Move pole back about 4 ft, taking over ownership of pole from DP&L.

- Sta. 312+75 R – No known reason to relocate, remain as is.
- Sta. 314+18 R - No known reason to relocate, remain as is.
- Sta. 315 +71 R - No known reason to relocate, remain as is.
- Sta. 316 + 63 R - No known reason to relocate, remain as is.
- From about Sta. 10+50, south on Carter Rd, to about Sta. 29+00, VZ will be looking to attach to the relocated Town of Smyrna pole line.
- At about Sta. 12+65 L, VZ is looking to place new cable from Culbreath St, south to about Sta. 13+80 L. A bore will be done across Carter Rd to pick up existing cable to Medical Ctr.
- No work is known to be needed for the cable that leaves pedestal at 15+70 R 42 ft and goes south on Carter Rd.
- Sta. 18+85 R, VZ will adjust pedestal 1-2 ft back as needed.
- Sta. 22+60 R, Adjust as necessary to avoid conflicts with P20, JB5, MH4, & P95.
- Sta. 33+40 L, move pedestal back about 4-5 ft.
- Sta. 35+80 L, at Julia Way, relocate pedestal north about 5-10 ft.
- Sta. 53+13 R, move pole back about 7 ft. (Town of Smyrna to provide lighting and power)
- Sta. 54+62 R, place new pole (Town of Smyrna to provide lighting and power)
- Sta. 56+20 R, place new pole (Town of Smyrna to provide lighting and power)
- Sta. 57+25R, move pole back about 2-3 ft.
- Sta. 58+55 R, place new pole (Town of Smyrna to provide lighting and power)
- Sta. 60+05 R, move pole back about 4-5 ft.
- Sta. 61+50 R, move pole back about 7-8 ft.
- Sta. 62+80R, move pole back about 5-7 ft. (Town of Smyrna to provide lighting and power)
- Sta. 63+95 R, move pole back about 5-7 ft. (Town of Smyrna to provide lighting and power)
- Sta. 65+70 R, move pole back about 5-7 ft.
- Sta. 66+23 R, place new pole (Town of Smyrna to provide lighting and power)
- Sta. 67+50 R, move pole back and south about 6 ft each way.
- Sta. 68+90 R, place new pole (Town of Smyrna to provide lighting and power)
- Sta. 70+38 R, move pole back about 14 ft. (Town of Smyrna to provide lighting and power)
- Sta. 71+80 R, place new pole (Town of Smyrna to provide lighting and power)
- Sta. 72+45 R, place new pole
- Sta. 73+00 R, place new pole (Town of Smyrna to provide lighting and power)
- Sta. 73+20 R, place new pole (Town of Smyrna to provide lighting and power)
- Hop onto DP&L pole line going west.
- Sta. 211+75 L, adjust pedestal as necessary.
- Sta. 204+40 L, Adjust pedestal, if necessary.
- The last party attached to the pole will complete Pole removals.

Permit requirements

- Work will be completed under the direction of DelDOT Project Management, so no Utility permits will be applied for.
- Verizon will require six (6) weeks advance notice to proceed.

Construction Scheduling

- Cable placing is estimated to require approximately 3 weeks to complete.
- Cable splicing is estimated to require approximately 6 weeks to complete.
- Cable transfer and removal is estimated to require approximately 2 weeks to complete.
- Verizon will not be able to complete their work until DP&L has completed their aerial work.
- Estimates for Verizon cable placing, splicing, and removals is dependent on availability of work crews, weather, plan changes and other unforeseen obstacles, which may create delays to the project.

Verizon Requirements

- Verizon will require Approved Final Plans, Notice to Proceed, and Estimate approval before work can begin.
- All survey and staking will be provided by the DelDOT Contractor.
- Verizon will be going in advance, so MOT reimbursement agreement is needed.

Any additional relocations/adjustments to any existing aerial/underground lines or poles shall be arranged, if necessary, with the owners during the construction of the project. The time to complete any additional relocations/adjustments will depend on the nature of the work.

COMCAST CABLEVISION, INC.

The company maintains aerial and underground facilities throughout the limits of the project. The proposed changes to the facilities include, but are not limited to the following:

The company currently maintains aerial cable located on Delmarva Power, Town of Smyrna and Verizon Delaware, Inc. poles along the north side of Carter Road. Comcast will relocate/rebuild where necessary, aerial cable to the new poles placed by Delmarva and Town of Smyrna as depicted on the construction plans.

Comcast of Delmarva maintains the following aerial communication facilities within the Project limits:

1. Line begins on pole #Vz 27 on the South side of (SR 300) at station 310+53.00 and heads east to station 318+50.00 project limits.

2. Line begins on pole # 6 town of Smyrna on the north side of Carter road at station 23+00 and continues east to pole # 12 town of Smyrna at station 37+80
3. Line begins on pole # 18 town of Smyrna on the north side of carter rd at station 50+60 and continues east to pole # 23 town of Smyrna at station 61+60 and crosses west to DPL pole # 46817/26616 on Manor dr to project limits.
4. Line begins on pole # 23 town of Smyrna at station 61+60 and continues south on the north side of carter rd to pole # 32 town of Smyrna at station 79+00 end of contract
5. Line begins at pole # 29 town of Smyrna at station 73+50 and continues west crossing over Sunnyside rd on the north side to DPL pole # 46850/26502 project limits station 200+25.00
6. Line begins at pole # 29 town of Smyrna at station 73+50 and crosses over Sunnyside road south to pole # 30 town of Smyrna and continues east on Sunnyside to pole # 22 town of Smyrna to project limits station 215+76.85
7. Line begins at pole # 30 on Sunnyside road station 74+90 and continues west to pole # 26 town of Smyrna at station 27+80

Comcast of Delmarva maintains the following underground communication facilities within the Project limits:

The company maintains underground cable located as described below. Note: Any cables or road Crossing that will be in conflict with the project will be relocated to a proper depth

1. Line begins at limit of contract at station 215+76.85 and continues on the north Side of Sunnyside road to station 211+75
2. Line begins at station 30+75 pole # 9 town of Smyrna and continues west on south street to station 31+00
3. Line begins at station 25+50 pole # 7 town of Smyrna and continues west on south street to station 26+85
4. Line begins at station pole # 5 town of Smyrna at station 20+50 and continues west on the north side of Carter road to station 15+65 than crosses carter to project limits at station 15+65

This work will take approximately 30 calendar days, beginning after Delmarva and Town of Smyrna have set the new poles, and the power lines have been relocated.

Any additional relocations/adjustments to any existing CATV lines shall be arranged, if necessary, with the owners during the construction of the project. The time to complete any additional relocations/adjustments will depend on the nature of the work.

General

No existing telecommunication facilities can be taken out of service until the replacement facilities are installed and in operation.

TOWN OF SMYRNA – WATER & SEWER

The Town of Smyrna – Water and Sewer department owns and maintains underground facilities throughout the limits of the project. All adjustments/relocations shall be performed by the State’s contractor as depicted on the construction plans, noted within project notes, and/or noted within the contract specifications.

Any additional relocations/adjustments to any existing water/sewer lines shall be performed by the State’s contractor and coordinated with the owners during the construction of the project. The time to complete any additional relocations/adjustments will depend on the nature of the work.

General

No existing water/sewer facilities can be taken out of service until the replacement facilities are installed and in operation.

TOWN OF SMYRNA – ELECTRIC DISTRIBUTION

The Town of Smyrna owns and maintains 25kV, three phase aerial and underground distribution facilities along with secondary underbuild throughout the limits of the proposed project. The Town of Smyrna’s existing electric facilities are in conflict with the proposed road widening and the defined clear zone (CZ) as detailed on Delaware Department of Transportation (DelDOT)-Carter Road (K137) Sunnyside Road to Wheatley’s Pond Road Semi-Final Plans dated 10/21/09.

Existing

The limits of the existing electric infrastructure owned by the Town of Smyrna, DE within the defined Limit of Construction include, but are not limited to the following. The Town of Smyrna currently maintains aerial electric circuits located along the south side of SR300 from Station 310+45 to 314+20 as shown on Sheets 11 and 12 of DelDOT Construction Plans. At Station 314+20, the existing aerial circuit turns north and crosses SR300 onto property owned by the Town of Smyrna, DE. The Town of Smyrna also currently maintains aerial electric circuits along SR6 with proposed modifications to the existing circuit and structures beginning at Station 52+50 as shown on Sheet 12 and continuing to a structure presently defined as outside the Limit of Construction on the construction plans. The Town of Smyrna also currently maintains aerial and underground electric circuits located along the east and west side of Carter Road within the defined Limit of Construction from Station 10+00 to Station 78+73. The Town of Smyrna also currently maintains aerial and underground electric facilities located along the south side of Sunnyside Road within the defined Limit of Construction from Station 200+25 to Station 215+76.

Proposed

The proposed electric circuit modifications along SR300 will consist of transitioning the existing aerial circuit to underground at Station 310+35 to permit the removal of an unguyed steel pole at Station 311+50. The underground circuit will be located within a proposed easement previously defined by Downes Associates, Inc (DAI) along the south side of SR300 on property owned by Bayhealth Medical Center, Inc. The underground circuit will cross to the north side of SR300 at Station 313+85 to lands owned by the Town of Smyrna. Upon the successful installation of the proposed underground facilities, the existing aerial facilities along SR300 between Station 310+33 and Carter Road will be removed. To plan for the proposed roadway improvements at the intersection of SR300 and SR6, which requires the removal of the existing Town of Smyrna utility pole located at Station 55+80 – 22'R on SR6. Additional pole modification along SR6 at Station 57+08 – 24'R and Station 58+00 – 24.5'R will be required to facilitate the removal of the existing structure located at Station 55+75. Once the secondary services have successfully been transferred, the portion of the aerial circuit along SR6 that crosses SR300 will be removed as will the pole at Station 318+00. The proposed electric circuit modifications along Carter Road consist of the relocation of the town's entire aerial circuit and associated poles located along the east side of Carter Road from Station 13+05 to the first Town of Smyrna electric utility pole past the Limit of Construction on the south end of Carter Road at Station 78+40. This will include the relocation/modification of all existing underground and aerial electric circuit crossings located at, but not limited to, Stations 15+75, 19+25, 20+50, 25+55, 33+40, 42+00, 49+80, 50+65, and 74+50. Upon the completion of constructing the proposed relocated pole line and the transferring of existing secondary services, the existing aerial circuit conductors and associated wood pole structures will be removed.

Additional Town of Smyrna electric utility poles will be installed at locations required to facilitate the installation of proposed roadway lighting. Several crossings of underground secondary conductors within conduit will be required to be installed at Stations 12+11, 17+83, 22+94, 27+81, 35+74, 40+17, 44+10, 46+32, 53+19, 57+50, 63+23, 67+47, and 71+53.

Additional lighting fixtures will be installed on the relocated TOS electric utility poles along Carter Road per the lighting design completed by Urban Engineers. The proposed relocation of the aforementioned sections of the Town of Smyrna electric facilities will require DelDOT to procure previously defined electric easements from private property land owners. These easements shall allow for the placement of wood and/or steel pole structures, anchors, guy wires, above ground pedestals, sectionalizing cabinets, ground rods, ground wire, as well as the circuit conductors of the proposed aerial and/or underground circuit conductors.

All relocations/adjustments to existing electric facilities owned by the Town of Smyrna shall be performed by the utility contractor awarded the competitively bid contract to perform such work.

The time to complete any additional relocations/adjustments will depend on the nature of the work.

The proposed work on this project will require 120 calendar days to complete and shall commence upon the issuance (by the Town of Smyrna) of the Notice To Proceed. The Notice To Proceed will not be issued by the Town of Smyrna until written notification

from DelDOT has been received by the Town of Smyrna stating all required electric easements have been acquired by DelDOT. DelDOT shall furnish the Town of Smyrna with an executed copy of each easement agreement required to facilitate the relocation of Town of Smyrna's electric infrastructure as required for this project. The Town of Smyrna will require DelDOT or their representative to perform the stakeout of the proposed construction baseline and stationing for all segments of roadway within the limits of construction, in order to facilitate the stakeout of proposed structure locations. This stakeout is required to be performed prior to the Notice To Proceed issued by the Town of Smyrna and the subsequent commencement of work by the Town's utility contractor.

General

No existing Town of Smyrna electric facilities can be taken out of service until the replacement facilities are installed and in operation.

Note: For exact location, please contact Miss Utility at (800) 282-8555. 16 Del. C. § 7405B Overhead High-Voltage Line Safety requires notification to and mutually agreeable measures from the public utility from any person intending to carry on any function, activity, work or operation within dangerous proximity of any high voltage overhead line. All contractors/other utilities must also maintain a distance of 10'-0" from all energized lines.

KENT COUNTY - SEWER

Kent County Sewer Department maintains underground facilities within the limits of the project with no anticipated impacts.

Any necessary relocations/adjustments to any existing underground facilities shall be arranged, if necessary, with the owners and performed by the state's contractor during the construction of the project. The time to complete any additional relocations/adjustments will depend on the nature of the work.

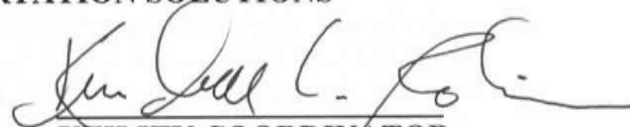
General Notes

1. The Contractor's attention is directed to Section 105.09 Utilities, Delaware Standard Specifications, August 2001. The Contractor shall contact Miss Utility (1-800-282-8555) two working days prior to any excavation. The Contractor is responsible for the support and protection of all utilities when excavating. The Contractor is responsible for ensuring proper clearances, including safety clearances, from overhead utilities for construction equipment. The Contractor is advised to check the site for access purposes for his equipment and, if necessary, make arrangements directly with the utility companies for field adjustments for adequate clearances.
2. It is understood and agreed that the Contractor has considered in his bid all permanent and temporary utility appurtenances in their present and relocated positions as shown on the plans or described in the Utility Statement or are readily discernible and that no additional compensation will be allowed for any delays, inconvenience, or damage due to any interference from the utility facilities and appurtenances or the operation of moving them, except that the Contractor may be granted an equitable extension of time.
3. Coordination and cooperation among the Utility Companies and the State's Contractor are of prime importance. Therefore, the Contractor is directed to contact the following Utility Company representatives with any questions regarding this work prior to submitting bids and work schedules. Proposed work schedules should reflect the Utility Companies' proposed relocations. The Utility Companies do not work on weekends or legal holidays.

Robert Wiegner	Delmarva Power – Electric Distribution	(302) 454-4370
Wayne Wallendorf	Chesapeake Utilities	(302) 734-6797 ext. 6733
George Zang	Verizon Delaware, Inc.	(302) 422-1238
Bruce Turner	Comcast Cablevision, Inc.	(302) 632-7470
Dave Hugg	Town of Smyrna - Water & Sewer	(302) 653-3483
Dave Hugg	Town of Smyrna - Electric	(302) 653-3483
Hans Medlarz	Kent County – Sewer	(302) 736-2101

DIVISION OF TRANSPORTATION SOLUTIONS

3/28/2011
DATE


UTILITY COORDINATOR

**STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
PO BOX 778
DOVER, DELAWARE 19903**

CERTIFICATE OF RIGHT-OF-WAY STATUS

STATE PROJECT NO. T200301601

F.A.P. No. ESTP-K137(2)

**CARTER ROAD (K137) SUNNYSIDE ROAD TO
WHEATLEY'S POND ROAD SMYRNA**

KENT COUNTY

Certificate of Right-of-Way Status – 100%

In accordance with 23CFR 635.309 (c) this right of way statement meets the requirements of a “level 1” certification in that all necessary rights-of-way required for the proper execution of the project has been acquired.

This is to certify that all project rights of way is currently available in accordance with the project right-of-way plans.

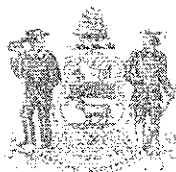
It is further certified that there was one individual displaced by this project. Therefore the provisions of 49 CFR Part 24 is applicable to the project.

The occupant moved to a Decent Safe & Sanitary replacement dwelling and the displacement dwelling has been demolished.

REAL ESTATE SECTION

Cleon L. Cauley, Sr.
Deputy Director, Planning

January 26, 2012



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. BOX 775
DOVER, DELAWARE 19903

CLEON L. CAULEY, SR.
ACTING SECRETARY

May 26, 2011

ENVIRONMENTAL REQUIREMENTS
for

State Contract No. T200301601
Federal Aid No.: ESTP-K137(2)

Contract Title: Carter Road (K137), Sunnyside Road to Wheatley's Pond Road, Smyrna

In accordance with the procedural provisions for implementing the National Environmental Policy Act of 1969, as amended, the referenced project has been processed through the Department's Environmental Review Procedures and has been classified as a Level D/Class II Action. The following special provisions have been developed to mitigate and/or minimize these impacts.

Due to the nature of the proposed construction activities, permits are not required for this project. However, the following construction requirements and special provisions have been developed to minimize and mitigate impact to the surrounding environment. These requirements by DelDOT not specified within the contract, but listed below, are the responsibility of the contractor and is subject to risk of shut down at the contractor's expense if not followed.

GENERAL REQUIREMENTS:

1. All construction debris, excavated material, brush, rocks, and refuse incidental to such work shall be placed either on shore above the influence of flood waters or on some suitable dumping ground.
2. That effort shall be made to keep construction debris from entering adjacent waterways or wetlands. Any debris that enters those areas shall be removed immediately.
3. The disposal of trees, brush, and other debris in any stream corridor, wetland, surface water, or drainage area is prohibited.



CULTURAL RESOURCE REQUIREMENTS:

1. The contractor will submit to the District, the locations(s) of permanent disposal sites to be used for the disposition of clean waste materials resulting from the construction contract. The contractor will submit at the Preconstruction meeting, a location map and a plot plan(sketch or diagram) of where on the property the clean waste material is to be placed. The limits of the site(s) will be physically staked or surveyed on the property. The District will submit the contractor's disposal site locations(s) to the State Historic Preservation Office for approval.

The SHPO will determine if a cultural resource survey is required before the site can be approved. If additional survey work is required, it will be the contractor's responsibility to hire a qualified professional to assess the site(s) for the presence or absence of cultural resources (i.e. historic or prehistoric archaeological sites). The contractor's consultant will be responsible for producing documentation of the survey results for submission to the SHPO.

If the contractor proposes the use of disposal sites outside the State of Delaware, the contractor must provide written approval from the State Historic Preservation Office of each respective state.

A project's disposal operation will not commence until the SHPO has notified the DelDOT District office that the site location(s) is approved for use.

The use of the disposal site will not result in discharge of materials into US Army Corps of Engineers of DNREC jurisdictional wetlands or waters. It is the responsibility of the contractor to provide any site surveys or wetland delineations needed to preclude wetland encroachment.

The contractor will be responsible for all sediment and erosion control measures and subsequent approvals required for the disposal site(s) operations.

It is the contractor's responsibility to obtain all other appropriate Federal, State, or local approvals required by law for use of the disposal sites(s).

ENVIRONMENTAL COMPLIANCE SHEET:

1. There are no Environmental Permits associated with this project, so an Environmental Compliance Sheet was not prepared.

2. DelDOT Environmental Studies Section (302) 760-2264 must be notified if there are any changes to the project methods, footprint, materials, or designs, to allow the Department to coordinate with the appropriate resource agencies (COE, DNREC, and SHPO), for approval.

3. Two jurisdictional water crossings are located within the project limits at sta 52+25 and 62+25. No work is proposed at these locations and permits were not acquired.

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 CATEGORY 1

0010	201000 CLEARING AND GRUBBING	LUMP		LUMP		
0020	202000 EXCAVATION AND EMBANKMENT	CY	7051.000			
0030	208000 EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	CY	1740.000			
0040	209001 BORROW, TYPE A	CY	1680.000			
0050	209003 BORROW, TYPE C	CY	160.000			
0060	211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP		LUMP		
0070	212000 UNDERCUT EXCAVATION	CY	1400.000			
0080	250000 SEDIMENT REMOVAL	CY	1280.000			
0090	251000 SILT FENCE	LF	9320.000			

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	252001 INLET SEDIMENT CONTROL, CURB INLET	77.000 EACH				
0110	252002 INLET SEDIMENT CONTROL, AT GRADE INLET	29.000 EACH				
0120	268000 STABILIZED CONSTRUCTION ENTRANCE	10.000 TON				
0130	271502 BIORETENTION FACILITIES	LUMP	LUMP			
0140	272000 POND OUTLET STRUCTURE, CONCRETE, #1	1.000 EACH				
0150	272001 POND OUTLET STRUCTURE, CONCRETE, #2	1.000 EACH				
0160	272503 TRASH RACK	2.000 EACH				
0170	302007 GRADED AGGREGATE BASE COURSE, TYPE B	4456.000 CY				
0180	302011 DELAWARE NO. 3 STONE	4.000 TON				
0190	302012 DELAWARE NO. 57 STONE	5.000 TON				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0200	304508 BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	21672.000 SY				
0210	401651 SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)	4986.000 TON				
0220	401654 SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 70-22	4728.000 TON				
0230	401663 SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	3428.000 TON				
0240	401713 EMULSIFIED ASPHALT	30000.000 GAL				
0250	501527 PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 9"	55.000 SY				
0260	602793 CULVERT MODIFICATIONS	LUMP		LUMP		
0270	606002 METAL BRIDGE RAILING, ALUMINUM	64.000 LF				
0280	612021 REINFORCED CONCRETE PIPE, 15", CLASS IV	5097.000 LF				
0290	612022 REINFORCED CONCRETE PIPE, 18", CLASS IV	455.000 LF				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0300	612023 REINFORCED CONCRETE PIPE, 24", CLASS IV	1422.000 LF				
0310	612032 REINFORCED CONCRETE PIPE, 15", CLASS V	752.000 LF				
0320	612205 REINFORCED CONCRETE ELLIPTICAL PIPE, 19"X30", CLASS IV	257.000 LF				
0330	612216 REINFORCED CONCRETE ELLIPTICAL PIPE, 14"X23", CLASS IV	81.000 LF				
0340	612529 PIPE VIDEO INSPECTION	8064.000 LF				
0350	612535 CLEANING DRAINAGE PIPE, 15"-24" DIA	2168.000 LF				
0360	612536 CLEANING DRAINAGE PIPE, GREATER THAN 24" DIA	292.000 LF				
0370	614508 WATERMAIN AND ACCESSORIES	LUMP		LUMP		
0380	617002 REINFORCED CONCRETE FLARED END SECTION, 15"	5.000 EACH				
0390	617003 REINFORCED CONCRETE FLARED END SECTION, 18"	2.000 EACH				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0400	617005 REINFORCED CONCRETE FLARED END SECTION, 24"	1.000 EACH				
0410	701010 PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	181.000 LF				
0420	701011 PORTLAND CEMENT CONCRETE CURB, TYPE 2	97.000 LF				
0430	701012 PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	41.000 LF				
0440	701022 INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	11316.000 LF				
0450	705001 P.C.C. SIDEWALK, 4"	37500.000 SF				
0460	705002 P.C.C. SIDEWALK, 6"	3849.000 SF				
0470	705007 SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	320.000 SF				
0480	705010 CURB RAMP, TYPE 5	123.000 SF				
0490	708050 DRAINAGE INLET, 34" X 18"	8.000 EACH				

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0500	708051 DRAINAGE INLET, 34" X 24"	EACH 50.000				
0510	708052 DRAINAGE INLET, 48" X 30"	EACH 11.000				
0520	708053 DRAINAGE INLET, 48" X 48"	EACH 18.000				
0530	708054 DRAINAGE INLET, 66" X 30"	EACH 2.000				
0540	708058 DRAINAGE INLET, 72" X 48"	EACH 1.000				
0550	708111 MANHOLE, 48" X 30"	EACH 4.000				
0551	708112 MANHOLE, 48" X 48"	EACH 2.000				
0560	708512 DRAINAGE INLET, SPECIAL I	EACH 1.000				
0570	708513 DRAINAGE INLET, SPECIAL II	EACH 1.000				
0580	708514 DRAINAGE INLET, SPECIAL III	EACH 1.000				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0590	708585 JUNCTION BOX, 48" X 30"	5.000 EACH				
0600	708586 JUNCTION BOX, 48" X 48"	1.000 EACH				
0610	712005 RIPRAP, R-4	257.000 SY				
0620	712007 RIPRAP, R-6	12.000 SY				
0630	712506 GABIONS	14.000 CY				
0640	712527 TURF REINFORCING MAT	73.000 SY				
0650	713003 GEOTEXTILES, RIPRAP	321.000 SY				
0660	715001 PERFORATED PIPE UNDERDRAINS, 6"	12625.000 LF				
0670	716000 CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX	1.000 EACH				
0680	718000 ROOF DRAINS	30.000 LF				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0690	720050 GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	62.000 LF				
0700	720055 CURVED GUARDRAIL SECTION	40.000 LF				
0710	720506 RELOCATING PORTABLE P.C.C. SAFETY BARRIER	1757.000 LF				
0720	720532 INSTALL PORTABLE IMPACT ATTENUATOR	15.000 EACH				
0730	720534 FURNISH PORTABLE IMPACT ATTENUATOR	9.000 EACH				
0740	720539 RELOCATE PORTABLE IMPACT ATTENUATOR	9.000 EACH				
0750	720567 FURNISH AND MAINTAIN PORTABLE P.C.C. SAFETY BARRIER	1187.000 LF				
0760	720585 GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	3.000 EACH				
0770	725003 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	4.000 EACH				
0780	726004 ENTRANCE SPECIAL END ANCHORAGE	1.000 EACH				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0790	727011 RESET CHAIN-LINK FENCE	387.000 LF				
0800	727015 MONUMENTS	65.000 EACH				
0810	732002 TOPSOIL, 6" DEPTH	2548.000 SY				
0820	733002 TOPSOILING, 6" DEPTH	17767.000 SY				
0830	734013 PERMANENT GRASS SEEDING, DRY GROUND	16416.000 SY				
0840	734015 PERMANENT GRASS SEEDING, WET GROUND	1351.000 SY				
0850	734017 TEMPORARY GRASS SEEDING, DRY GROUND	16416.000 SY				
0860	734018 TEMPORARY GRASS SEEDING, WET GROUND	1351.000 SY				
0870	737523 PLANTING	LUMP		LUMP		
0880	743006 PLASTIC DRUMS	1196.000 EADY				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0890	743007 TRAFFIC OFFICERS	750.000 HOUR	75.00000		56250.00	
0900	743057 FLAGGER, KENT COUNTY, FEDERAL	2500.000 HOUR	40.83000		102075.00	
0910	743066 FLAGGER, KENT COUNTY, FEDERAL, OVERTIME	500.000 HOUR	59.20000		29600.00	
0920	743504 WARNING SIGNS	206.000 EACH				
0930	743507 TEMPORARY BARRICADE, TYPE III	44084.000 LFDY				
0940	743525 TEMPORARY WARNING SIGNS	120.000 EADY				
0950	743551 FURNISH AND MAINTAIN REMOTE COMMUNICATION PORTABLE CHANGEABLE MESSAGE SIGN	1078.000 EADY				
0960	744505 ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	4.000 EACH				
0970	744506 CONDUIT JUNCTION WELL, TYPE 7, 36" X 60" PRECAST POLYMER CONCRETE	1.000 EACH				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0980	744520 CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	11.000 EACH				
0990	744523 CONDUIT JUNCTION WELL, TYPE 4, 20" X 42 1/2" PRECAST CONCRETE	2.000 EACH				
1000	744525 REMOVAL OF EXISTING JUNCTION WELL	3.000 EACH				
1010	745521 SUPPLY OF 4" SDR-13.5 HDPE CONDUIT	350.000 LF				
1020	745524 SUPPLY OF 4" SCHEDULE 80 PVC CONDUIT	60.000 LF				
1030	745527 SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	1350.000 LF				
1040	745528 SUPPLY OF 2" GALVANIZED STEEL CONDUIT	230.000 LF				
1050	745529 SUPPLY OF 1 1/2" GALVANIZED STEEL CONDUIT	70.000 LF				
1060	745542 INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	1200.000 LF				
1070	745544 INSTALLATION OF CONDUIT IN UNPAVED TRENCH	600.000 LF				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1080	745547 INSTALLATION OF ADDITIONAL CONDUITS IN TRENCH OR OPEN CUT PAVEMENT	120.000 LF				
1090	745548 INSTALLATION OF ADDITIONAL CONDUITS IN DIRECTIONAL BORE	100.000 LF				
1100	745551 REMOVAL OF CONDUIT FROM WOOD POLE	30.000 LF				
1110	746774 SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	1520.000 LF				
1120	746776 LOOP DETECTOR SPLICE	17.000 EACH				
1130	746830 REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	2.000 CY				
1140	746847 POLE BASE, TYPE 3	7.000 EACH				
1150	746850 POLE BASE, TYPE 4	8.000 EACH				
1160	747505 INSTALLATION OR REMOVAL OF BASE OR PAD MOUNTED CABINET	3.000 EACH				
1170	747506 CABINET BASE	2.000 EACH				

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1180	748015 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	2909.000 SF				
1190	748019 TEMPORARY MARKINGS, PAINT, 4"	27253.000 LF				
1200	748027 PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	256.000 LF				
1210	748530 REMOVAL OF PAVEMENT STRIPING	960.000 SF				
1220	748548 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	38142.000 LF				
1230	748553 PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	36.000 EACH				
1240	749687 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	248.000 EACH				
1250	749690 INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	150.000 SF				
1260	753548 SANITARY FORCE MAIN ADJUSTMENT, 1 3/4"	LUMP		LUMP		

CONTRACT ID: T200301601.01 PROJECT(S): ESTP-K137(2)

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CONTRACTOR : _____

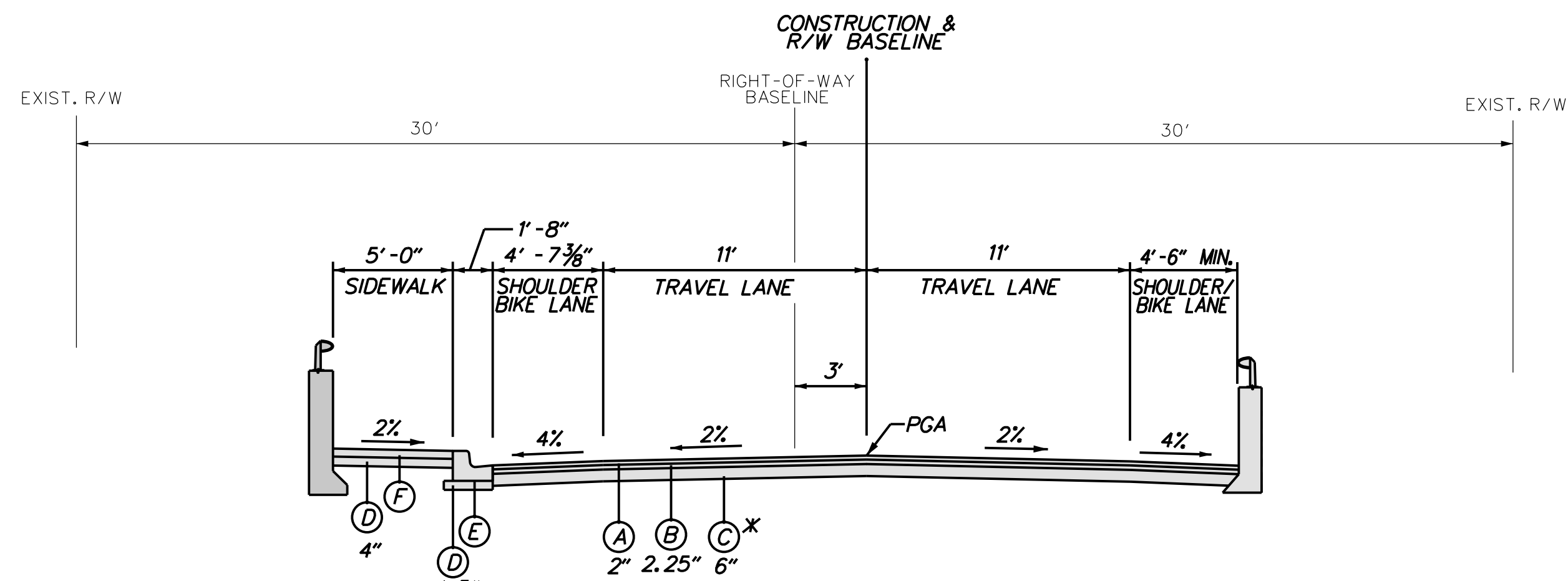
LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1272	759502 FIELD OFFICE, SPECIAL I	14.000 EAMO				
1280	760507 PROFILE MILLING, HOT-MIX	105926.000 SYIN				
1290	761001 BUTT JOINTS, HOT MIX	87.000 SY				
1299	762001 SAW CUTTING, HOT MIX	1233.000 LF				
1300	762002 SAW CUTTING, CONCRETE, FULL DEPTH	85.000 LF				
1310	763000 INITIAL EXPENSE	LUMP		LUMP		
1320	763500 MAINTENANCE OF TRAFFIC	LUMP		LUMP		
1330	763501 CONSTRUCTION ENGINEERING	LUMP		LUMP		
1340	763508 PROJECT CONTROL SYSTEM DEVELOPMENT PLAN	LUMP		LUMP		
1350	763509 CPM SCHEDULE UPDATES AND/OR REVISED UPDATES	14.000 EAMO				
	SECTION 0001 TOTAL					
	TOTAL BID					

SECTION 1 **BREAKOUT SHEET - 1** **CONTRACT NO. T200301601**
ITEM 614508 - Water Main and Accessories

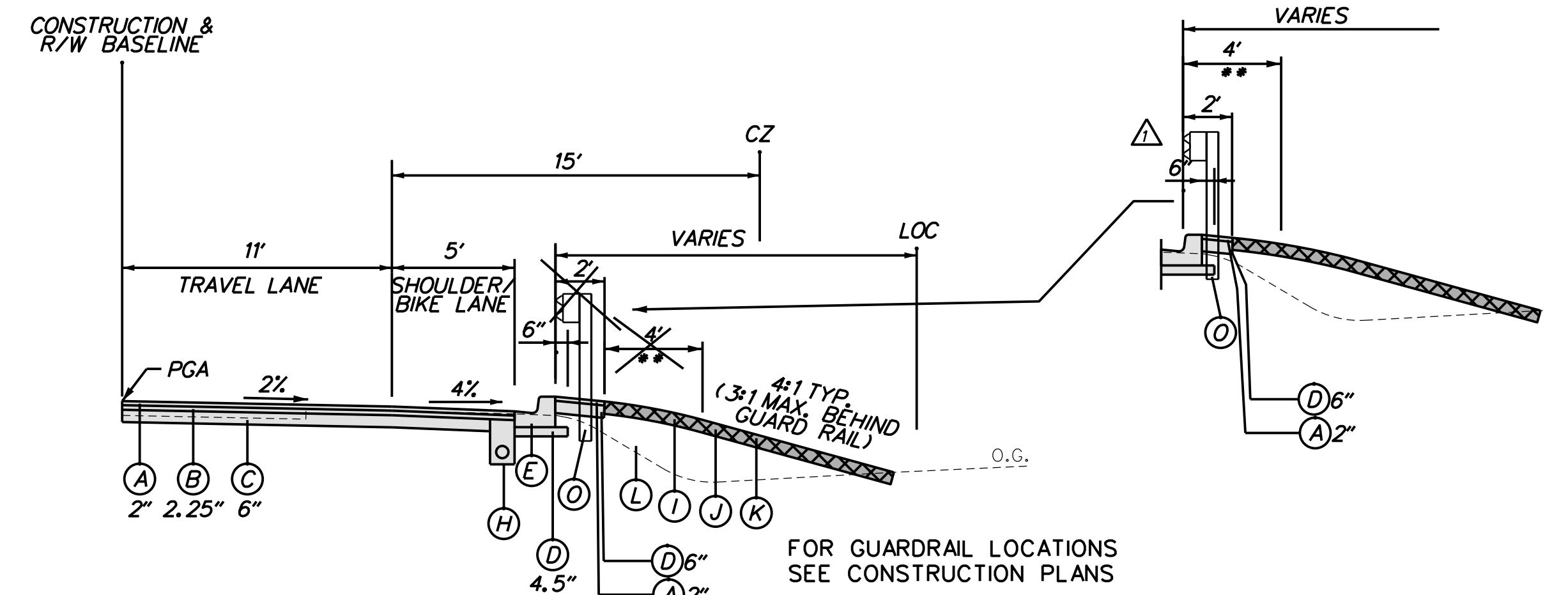
ITEM NO.	APPROX. QTY.	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
1	63	LF	Ductile Iron Pipe, 6"	\$	\$
2	6	EA	Relocate Fire Hydrant Assembly	\$	\$
3	85	LF	PVC Watermain, 6"	\$	\$
4	545	LF	PVC Watermain, 8"	\$	\$
5	452	LF	PVC Watermain, 10"	\$	\$
6	3	EA	Tapping Sleeve and Valve, 6" x 6"	\$	\$
7	2	EA	Tapping Sleeve and Valve, 8" x 8"	\$	\$
8	1	EA	Tapping Sleeve and Valve, 10" x 10"	\$	\$
9	44	EA	Concrete Thrust Block	\$	\$
10	3	EA	6" Cap	\$	\$
11	48	LF	Type K Copper Service, 2"	\$	\$
12	2	EA	6" Concrete Encasement, 10' Long	\$	\$

SECTION 1		BREAKOUT SHEET - 1			CONTRACT NO. T200301601	
ITEM 614508 - Water Main and Accessories						
ITEM NO.	APPROX. QTY.	UOM	DESCRIPTION	UNIT PRICE	AMOUNT	
13	1	EA	6" Concrete Cap and Cradle, 10' Long	\$	\$	
14	1	EA	6" Concrete Encasement, 20' Long	\$	\$	
15	1	EA	6" Tapping Sleeve Tee	\$	\$	
16	8	EA	8" Concrete Cap, 10' long	\$	\$	
17	4	EA	1/8 Horizontal Bend, 8"	\$	\$	
18	2	EA	1/4 Horizontal Bend, 6"	\$	\$	
19	25	EA	1/8 Horizontal Bend, 10"	\$	\$	
20	1	EA	1/16 Horizontal Bend, 10"	\$	\$	
21	1	EA	10" Cap	\$	\$	
22	1	EA	Tee, 10" x 10"	\$	\$	
23	1	EA	1/32 Vertical Bend with Anchorage	\$	\$	
24	1	EA	1/32 Vertical Bend with Concrete Buttress	\$	\$	
TOTAL ITEM 614508 - Water Main and Accessories				\$		
					(LUMP SUM BID PRICE FOR ITEM 614508)	

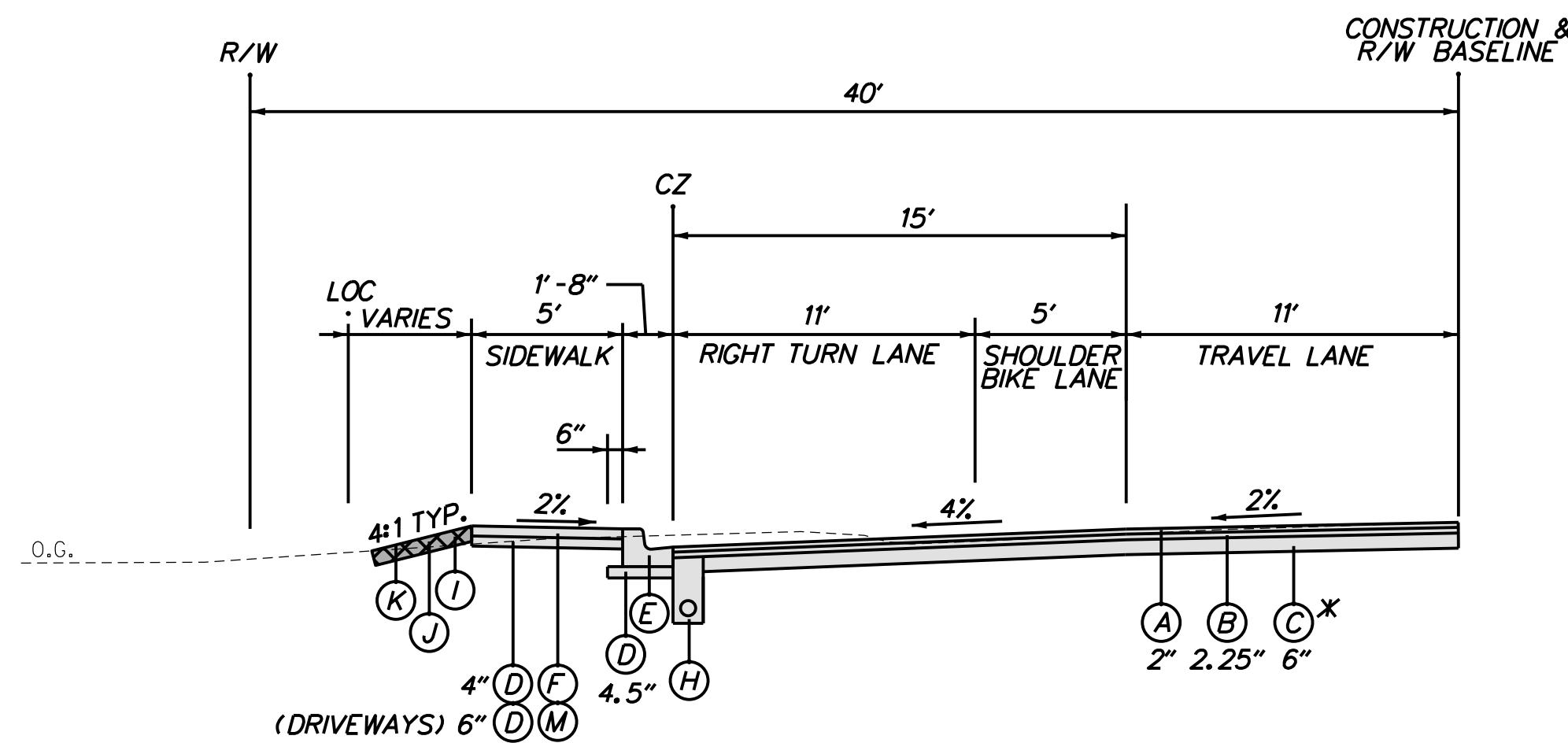
SECTION 1		BREAKOUT SHEET - 2		CONTRACT NO. T200301601	
		ITEM 737523 - Planting			
ITEM NO.	APPROX. QTY.	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
1	6	EA	Gleditsia tracanthos var. inermis, Thornless Honeylocust, 1 - 1 ½" Cal., B&B	\$	\$
2	6	EA	Quercus phellos, Willow Oak, 1-1 ½" Cal., B&B	\$	\$
3	18	EA	Ilex opaca, American Holly, 5' HT, B&B	\$	\$
4	20	EA	Thuja occidentalis "Nigra", 6' HT, B&B	\$	\$
5	21	EA	Crataegus Crus Galli, Cockspur Hawthorn, 6' HT, B&B	\$	\$
6	15	EA	Crataegus Phaenopyrum, Washington Hawthorn, 6' HT, B&B	\$	\$
7	17	EA	Chionanthus virginicus, White Fringetree, 6' HT, B&B	\$	\$
8	913	SY	Mulch, SY	\$	\$
TOTAL ITEM 737523 - Planting \$					
(LUMP SUM BID PRICE FOR ITEM 737523)					



CARTER ROAD - MILL CREEK BRIDGE SECTION
STATION 52+08 TO STATION 52+40



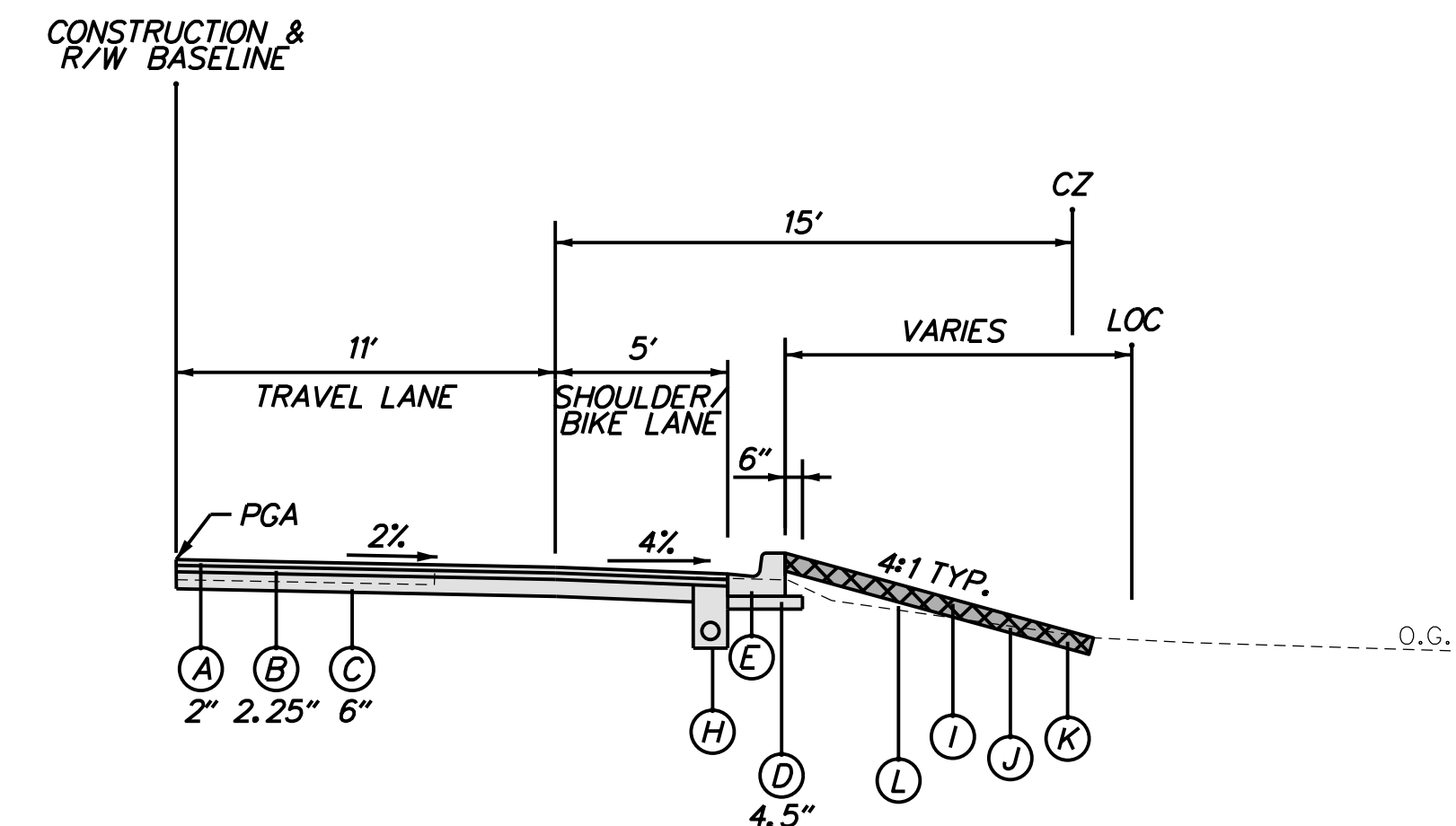
CARTER ROAD
STATION 51+20 TO STATION 52+08, RT. (GUARDRAIL SECTION)



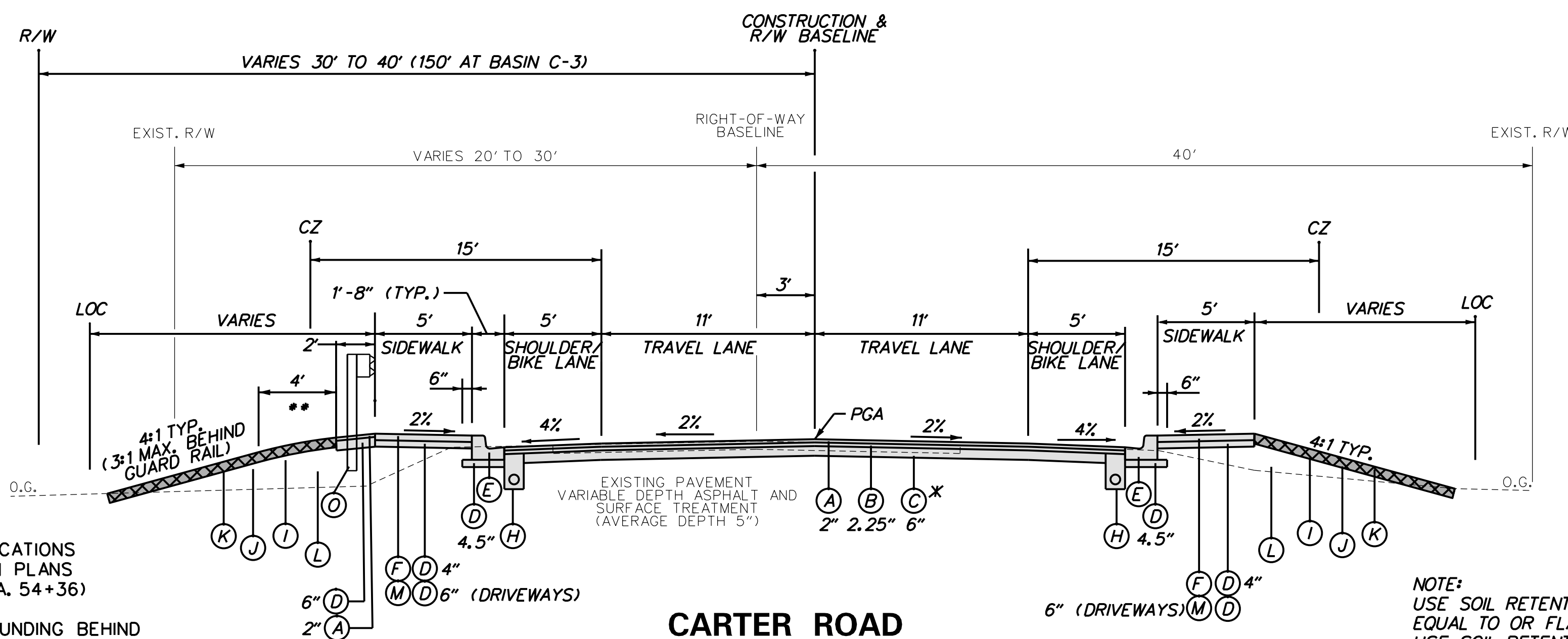
CARTER ROAD
STATION 46+06 TO STATION 48+06, LT.

*** FULL DEPTH RECLAMATION***

1. THE MAINLINE ROADWAY CONSISTS OF TWO 10.5' LANES AND THE WIDENED AREA CONSISTS OF A 5' SHOULDER AND 0.5' ADDITIONAL WIDTH FOR THE TRAVEL LANE. EXCAVATE THE SHOULDER AND WIDENED AREA AND MILL 3" FROM THE MAINLINE ROADWAY.
2. THE MILLINGS FROM THE MAINLINE ROADWAY ARE THEN PLACED IN THE WIDENED AREA.
3. AFTER THE MILLING OPERATION, RECLAMATION WILL TAKE PLACE FOR THE ENTIRE WIDTH, 32', AT A MINIMUM DEPTH OF 6".
4. PLACE 2.25" OF TYPE B AND 2" OF TYPE C OVER LANES AND SHOULDERS.



CARTER ROAD
STATION 46+12 TO STATION 51+20, RT.



CARTER ROAD
STATION 31+83 TO STATION 52+08

FOR GUARDRAIL LOCATIONS SEE CONSTRUCTION PLANS (STA. 51+16 TO STA. 54+36)

** - PROVIDE 4' ROUNDING BEHIND GUARDRAIL AS SHOWN ON STANDARD DRAWING B-1, SHT. 3 OF 3.

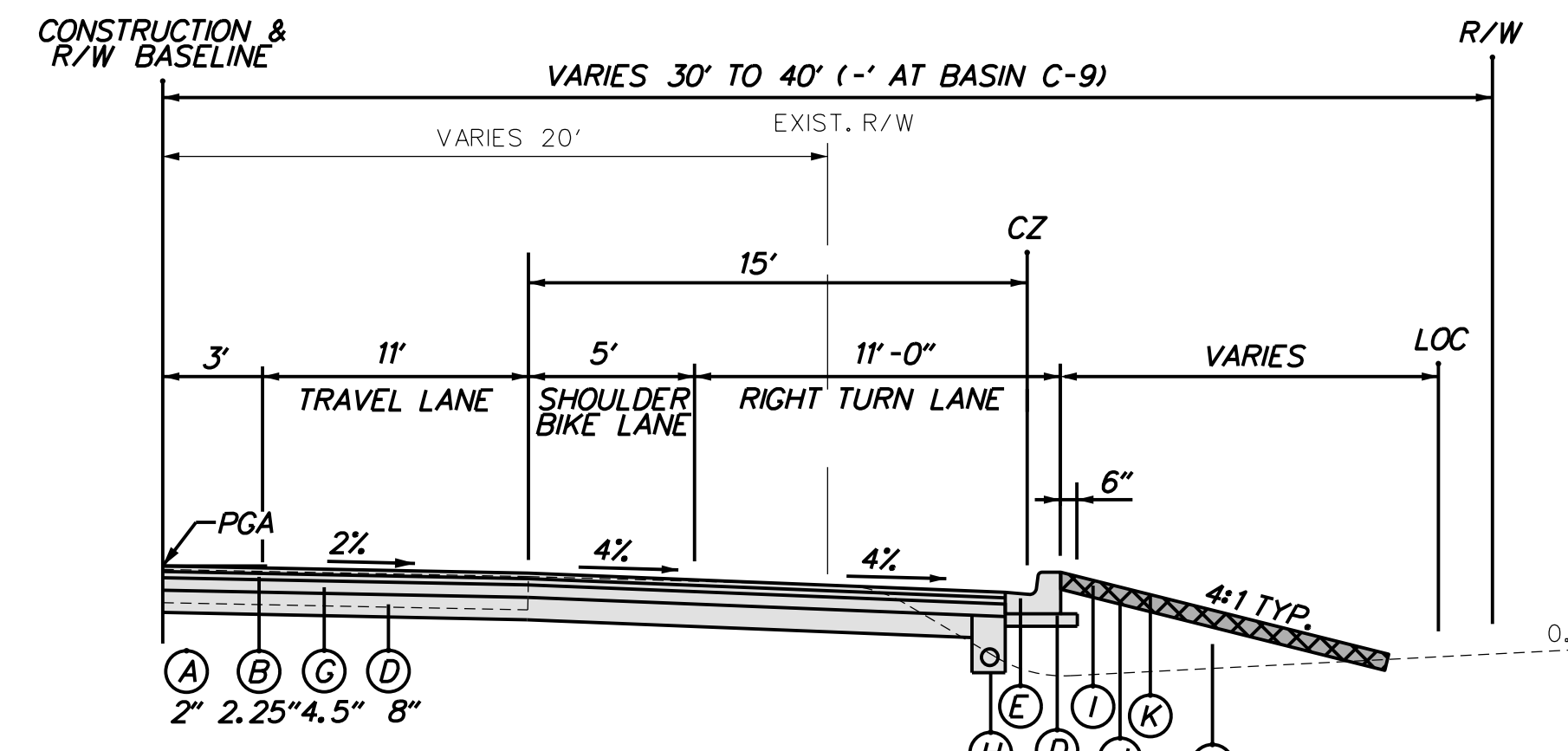
NOTE: USE SOIL RETENTION BLANKET MULCH, TYPE 4 ON TOP-SOILED SLOPES EQUAL TO OR FLATTER THAN 3H:1V
USE SOIL RETENTION BLANKET MULCH, TYPE 5 ON TOP-SOILED GRASS SWALE AT MAXIMUM DESIGN SHEAR STRESS LESS THAN OR EQUAL TO 2 POUNDS PER SQUARE FOOT.

LEGEND	
(A)	ITEM 401651 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 70-22
(B)	ITEM 401654 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 70-22
(C)	ITEM 304508 - ASPHALT STABILIZED FULL-DEPTH RECLAMATION *(SEE NOTES)
(D)	ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
(E)	ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3
(F)	ITEM 705001 - P.C.C. SIDEWALK, 4"
(G)	ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
(H)	ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
(I)	ITEM 732002 - TOPSOIL, 6" DEPTH
(J)	ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
(K)	SOIL RETENTION BLANKET MULCH, TYPE 4 (SEE NOTE) OR SOIL RETENTION BLANKET MULCH, TYPE 5 (SEE NOTE)
(L)	BORROW, TYPE F
(M)	ITEM 705002 - P.C.C. SIDEWALK, 6"
(N)	ITEM 760507 - PROFILE MILLING, HOT-MIX
(O)	ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL
(P)	ITEM 209001 - BORROW, TYPE A

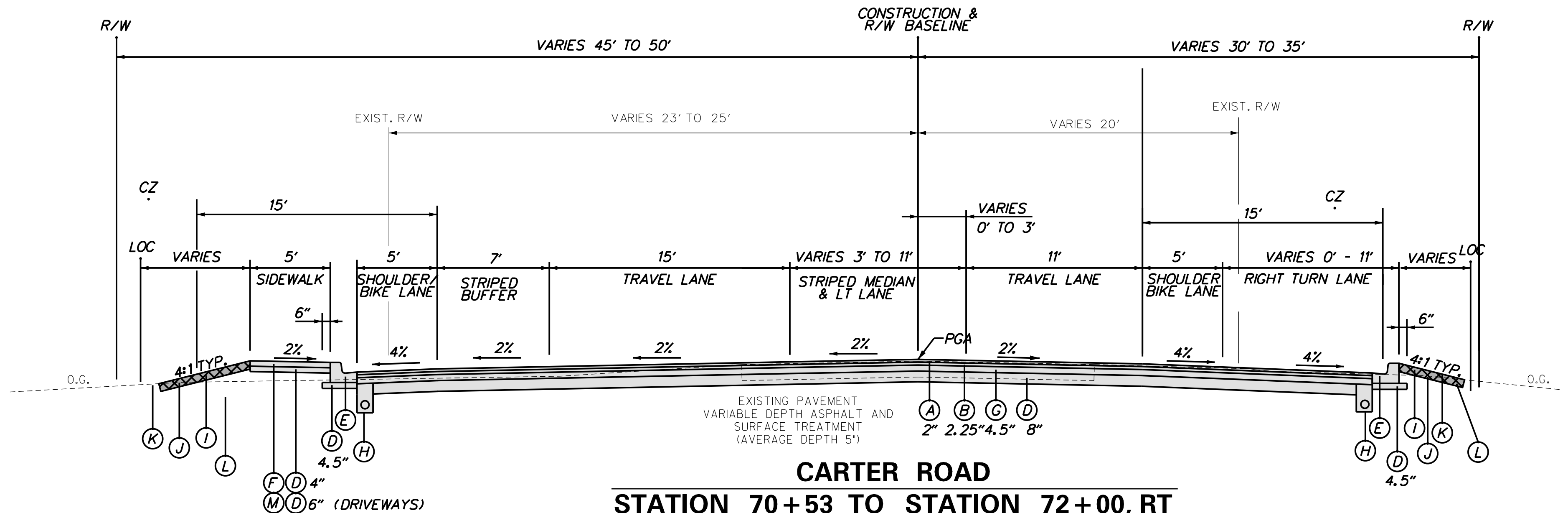
ADDENDUMS / REVISIONS
△ REVISED NOTE SHEET NUMBER, CORRECTED G/R OFFSET TO BE AT FACE OF CURB WHEN NOT BEHIND SIDEWALK



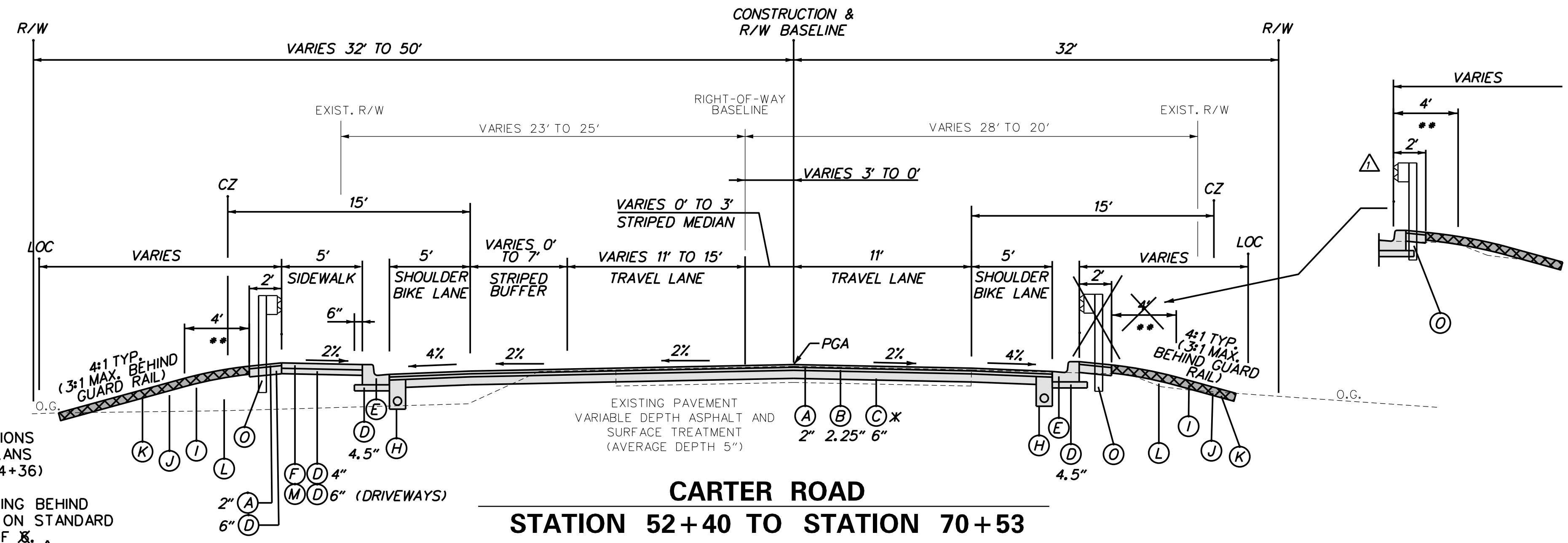
CONTRACT T200301601	BRIDGE NO.
COUNTY KENT	DESIGNED BY: CC
	CHECKED BY: JP



CARTER ROAD
STATION 72+00 TO STATION 73+50, RT.



CARTER ROAD
STATION 70+53 TO STATION 72+00, RT
STATION 70+53 TO STATION 73+48, LT



CARTER ROAD
STATION 52+40 TO STATION 70+53

FULL DEPTH RECLAMATION

1. THE MAINLINE ROADWAY CONSISTS OF TWO 10.5' LANES AND THE WIDENED AREA CONSISTS OF A 5' SHOULDER AND 0.5' ADDITIONAL WIDTH FOR THE TRAVEL LANE. EXCAVATE THE SHOULDER AND WIDENED AREA AND MILL 3" FROM THE MAINLINE ROADWAY.
2. THE MILLINGS FROM THE MAINLINE ROADWAY ARE THEN PLACED IN THE WIDENED AREA.
3. AFTER THE MILLING OPERATION, RECLAMATION WILL TAKE PLACE FOR THE ENTIRE WIDTH, 32', AT A MINIMUM DEPTH OF 6".
4. PLACE 2.25" OF TYPE B AND 2" OF TYPE C OVER LANES AND SHOULDERS.

NOTE:
USE SOIL RETENTION BLANKET MULCH, TYPE 4 ON TOP-SOILED SLOPES EQUAL TO OR FLATTER THAN 3H:1V
USE SOIL RETENTION BLANKET MULCH, TYPE 5 ON TOP-SOILED GRASS SWALE AT MAXIMUM DESIGN SHEAR STRESS LESS THAN OR EQUAL TO 2 POUNDS PER SQUARE FOOT.

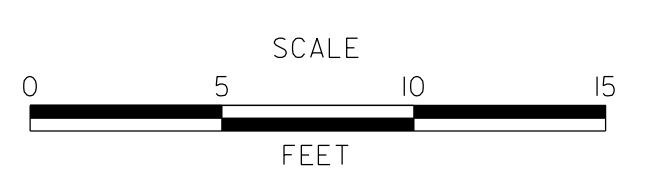
LEGEND	
(A)	ITEM 401651 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 70-22
(B)	ITEM 401654 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 70-22
(C)	ITEM 304508 - ASPHALT STABILIZED FULL-DEPTH RECLAMATION *(SEE NOTES)
(D)	ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
(E)	ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3
(F)	ITEM 705001 - P.C.C. SIDEWALK, 4"
(G)	ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
(H)	ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
(I)	ITEM 732002 - TOPSOIL, 6" DEPTH
(J)	ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
(K)	SOIL RETENTION BLANKET MULCH, TYPE 4 (SEE NOTE) OR SOIL RETENTION BLANKET MULCH, TYPE 5 (SEE NOTE)
(L)	BORROW, TYPE F
(M)	ITEM 705002 - P.C.C. SIDEWALK, 6"
(N)	ITEM 760507 - PROFILE MILLING, HOT-MIX
(O)	ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL
(P)	ITEM 209001 - BORROW, TYPE A

FOR GUARDRAIL LOCATIONS SEE CONSTRUCTION PLANS (STA. 51+16 TO STA. 54+36)

** - PROVIDE 4' ROUNDING BEHIND GUARDRAIL AS SHOWN ON STANDARD DRAWING B-1, SHT. 3 OF 3



ADDENDUMS / REVISIONS	
△	REVISED NOTE SHEET NUMBER, CORRECTED G/R OFFSET TO BE AT FACE OF CURB WHEN NOT BEHIND SIDEWALK



CARTER ROAD (K137)
SUNNYSIDE ROAD TO WHEATLEYS POND ROAD

CONTRACT	BRIDGE NO.
T200301601	
COUNTY	DESIGNED BY: CC
KENT	CHECKED BY: JP

TYPICAL SECTIONS		SHEET NO.
		8
		TOTAL SHTS.
		134

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
19	29+32.00	27.00' R	34" X24"	1	41.10	38.25
20	30+78.00	27.00' R	48" X30"	1	40.31	37.35
21	31+05.00	41.20' L	34" X24"	1	40.16	37.75
22	31+66.00	17.40' R	48" X30"	1	39.72	36.74
23	31+70.00	20.70' L	48" X48"	1	39.59	36.30
92	33+00.00	17.00' L	48" X30"	1	38.34	35.03
24	34+00.00	17.00' R	34" X24"	1	37.63	34.95
25	34+00.00	17.00' L	48" X48"	1	37.63	34.63
93	35+00.00	17.00' L	48" X48"	1	37.17	34.03

DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.	
21	15" RCP	IV	143.00	0.0054	38.25	37.48	
22	15" RCP	IV	83.00	0.0070	37.35	36.77	
23	15" RCP	IV	62.00	0.0182	37.75	36.62	
24	15" RCP	IV	33.00	0.0051	36.74	36.57	
25	18" RCP	IV	128.00	0.0090	36.30	35.15	
99	18" RCP	IV	96.00	0.0040	35.03	34.65	
26	15" RCP	IV	30.00	0.0050	34.95	34.80	
27	18" RCP	IV	96.00	0.0030	34.63	34.15	
100	19" x30" HERCP	IV	76.00	0.0023	34.03	33.86	

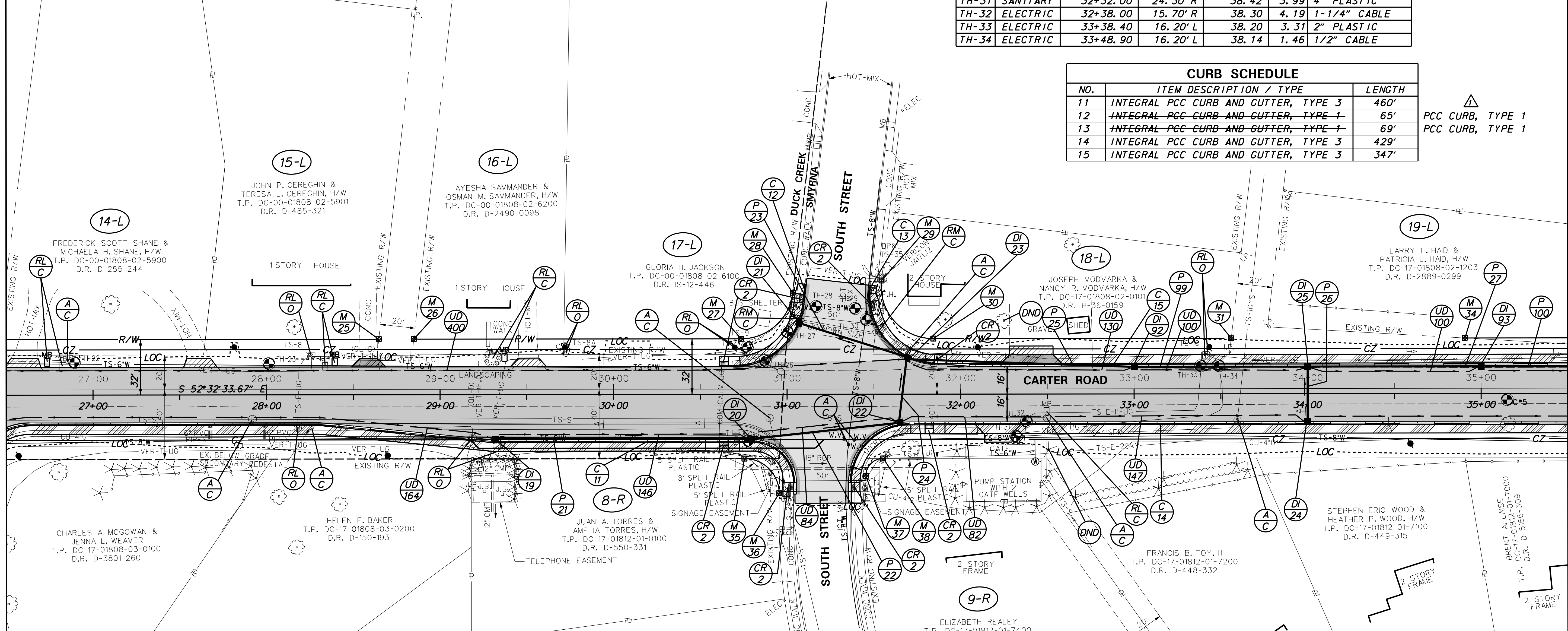
UTILITY TEST HOLE SCHEDULE							
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL	
TH-22	WATER	26+89.30	18.80' L	40.26	4.89	6" PLASTIC	
TH-23	WATER	28+01.40	18.00' L	40.77	4.18	6" PLASTIC	
TH-24	VERIZON	30+77.10	27.30' L	41.35	2.59	2-1/2" CABLE	
TH-25	WATER	30+77.90	26.90' R	41.71	4.07	8" PLASTIC	
TH-26	WATER	30+87.50	19.40' L	41.13	3.93	6" PLASTIC	
TH-27	WATER	31+00.20	36.00' L	40.96	4.42	6" PLASTIC	
TH-28	WATER	31+16.80	50.60' L	40.33	4.69	8" PLASTIC	
TH-29	WATER	31+39.30	49.40' L	40.12	4.16	18" CASE/8" PLAS.	
TH-30	WATER	31+45.70	42.90' L	39.90	4.43	8" PLASTIC	
TH-31	SANITARY	32+32.00	24.30' R	38.42	3.99	4" PLASTIC	
TH-32	ELECTRIC	32+38.80	15.70' R	38.30	4.19	1-1/4" CABLE	
TH-33	ELECTRIC	33+38.40	16.20' L	38.20	3.31	2" PLASTIC	
TH-34	ELECTRIC	33+48.90	16.20' L	38.14	1.46	1/2" CABLE	

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
11	INTEGRAL PCC CURB AND GUTTER, TYPE 3	460'
12	INTEGRAL PCC CURB AND GUTTER, TYPE 1	65'
13	INTEGRAL PCC CURB AND GUTTER, TYPE 1	69'
14	INTEGRAL PCC CURB AND GUTTER, TYPE 3	429'
15	INTEGRAL PCC CURB AND GUTTER, TYPE 3	347'

▲ PCC CURB, TYPE 1
▲ PCC CURB, TYPE 1

MATCHLINE STATION 26+50

MATCHLINE STATION 35+50

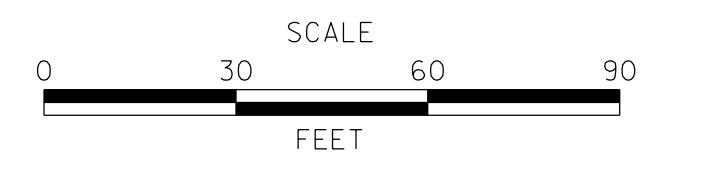


RIGHT-OF-WAY MONUMENT SCHEDULE				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
25	28+64.74	-32.00'	470149.5512	599457.3133
26	28+84.89	-32.00'	470137.2966	599473.3085
27	30+73.54	-32.00'	470022.5654	599623.0599
28	31+03.33	-58.49'	470025.4744	599662.8218
29	31+54.50	-65.51'	469999.9238	599707.7104
30	31+84.30	-32.00'	469955.2044	599710.9821
31	33+56.00	-32.00'	469850.7772	599847.2844
34	34+90.71	-32.00'	469768.8527	599954.2153
35	30+75.37	37.00'	469966.6742	599582.5562
36	30+95.37	57.00'	469938.6347	599586.2689
37	31+45.37	47.00'	469916.1649	599632.0408
38	31+55.37	37.00'	469918.0209	599646.0603

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
5	35+15	3.5' RT	4 1/2" ASPHALT OVER FILL



ADDENDUMS / REVISIONS	
▲	REVISED C-12 & C-13 CURB TYPES



CARTER ROAD (K137)
SUNNYSIDE ROAD TO
WHEATLEYS POND ROAD

CONTRACT	BRIDGE NO.	
T200301601	DESIGNED BY:	CC
COUNTY	CHECKED BY:	JP
KENT		

CONSTRUCTION PLAN		SHEET NO.
		18
		TOTAL SHTS.
		134

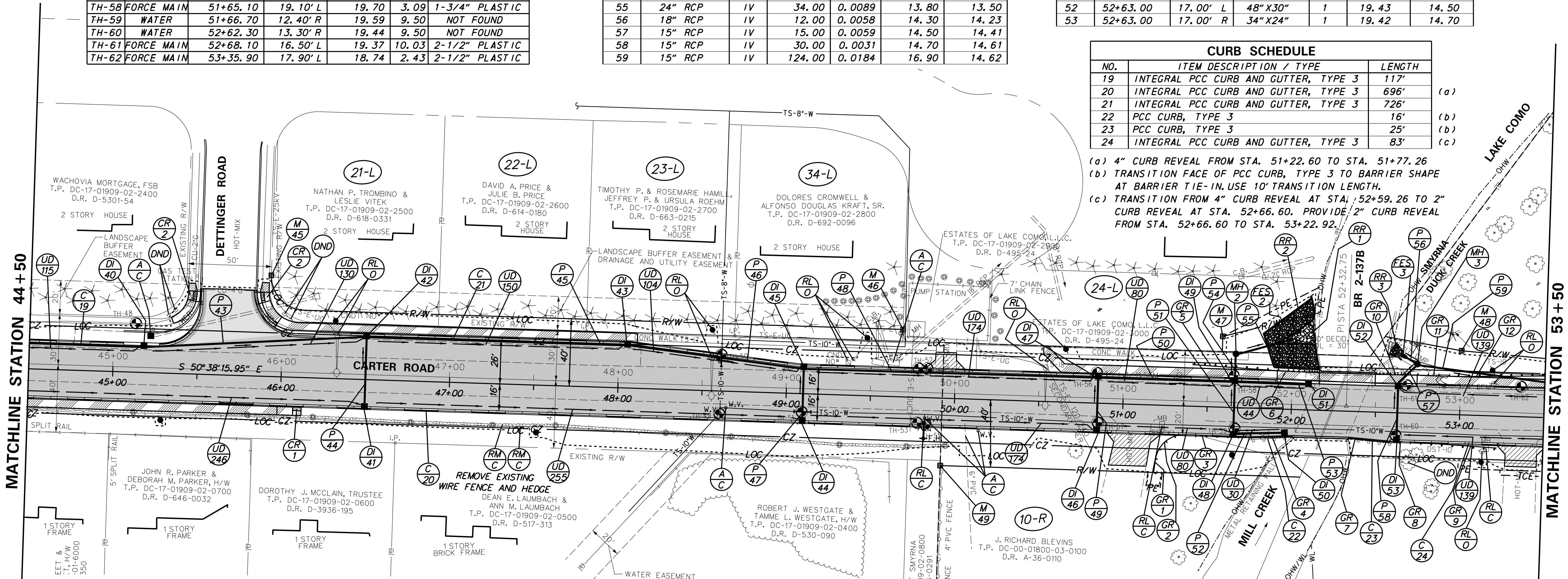
UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-48	GAS	45+12.86	29.00' L	34.11	3.59	4" PLASTIC
TH-49	WATER	48+60.70	13.50' R	28.01	4.80	10" PLASTIC
TH-50	WATER	48+60.90	21.60' L	27.44	6.29	8" PLASTIC
TH-51	WATER	49+09.50	10.80' R	25.39	3.65	10" PLASTIC
TH-52	ELECTRIC	49+78.00	17.30' L	22.97	4.90	(2)4-1/2" PLAS.
					5.88	(2)4-1/2" PLAS.
TH-53	ELECTRIC	49+78.20	15.10' R	24.51	10.24	(5)1/4" PLASTIC
TH-54	ELECTRIC	49+83.40	17.20' L	22.69	4.11	(2)4-1/2" PLAS.
					4.92	(2)4-1/2" PLAS.
TH-55	ELECTRIC	49+83.40	16.20' R	24.99	10.89	(5)4-1/2" PLAS.
TH-56	FORCE MAIN	50+84.00	18.00' L	20.49	2.68	1-3/4" PLASTIC
TH-57	WATER	50+85.40	11.50' R	19.71	9.05	NOT FOUND
TH-58	FORCE MAIN	51+65.10	19.10' L	19.70	3.09	1-3/4" PLASTIC
TH-59	WATER	51+66.70	12.40' R	19.59	9.50	NOT FOUND
TH-60	WATER	52+62.30	13.30' R	19.44	9.50	NOT FOUND
TH-61	FORCE MAIN	52+68.10	16.50' L	19.37	10.03	2-1/2" PLASTIC
TH-62	FORCE MAIN	53+35.90	17.90' L	18.74	2.43	2-1/2" PLASTIC

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
43	24" RCP	IV	130.00	0.0167	28.50	26.33
44	15" RCP	IV	38.00	0.0050	28.06	27.87
45	24" RCP	IV	151.00	0.0174	26.20	23.57
46	24" RCP	IV	102.00	0.0292	23.39	20.41
47	15" RCP	IV	28.00	0.0050	22.42	22.28
48	24" RCP	IV	172.00	0.0291	20.25	15.24
49	15" RCP	IV	28.00	0.0050	16.65	16.51
50	24" RCP	IV	78.00	0.0111	15.05	14.18
51	15" RCP	IV	28.00	0.0050	15.05	14.91
52	15" RCP	IV	28.00	0.0030	15.25	15.17
53	15" RCP	IV	41.00	0.0045	15.12	14.94
54	24" RCP	IV	17.00	0.0100	14.05	13.92
55	24" RCP	IV	34.00	0.0089	13.80	13.50
56	18" RCP	IV	12.00	0.0058	14.30	14.23
57	15" RCP	IV	15.00	0.0059	14.50	14.41
58	15" RCP	IV	30.00	0.0031	14.70	14.61
59	15" RCP	IV	124.00	0.0184	16.90	14.62

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
40	45+18.00	17.00' L	48" X48"	1	33.76	28.50
41	46+50.00	17.00' R	34" X24"	1	31.83	28.06
42	46+50.00	27.00' L	48" X48"	1	31.43	26.20
43	48+06.00	27.00' L	48" X48"	1	28.48	23.39
44	49+10.00	17.00' R	34" X24"	1	25.32	22.42
45	49+10.00	17.00' L	48" X48"	1	25.32	20.25
46	50+85.00	17.00' R	34" X24"	1	20.30	16.65
47	50+85.00	17.00' L	48" X48"	1	20.30	15.05
48	51+66.00	17.00' R	34" X24"	1	19.37	15.05
49	51+66.00	17.00' L	48" X48"	1	19.37	14.05
50	51+97.58	15.20' R	34" X24"	1	19.27	15.25
51	52+10.00	15.70' L	34" X24"	1	19.24	15.12
52	52+63.00	17.00' L	48" X30"	1	19.43	14.50
53	52+63.00	17.00' R	34" X24"	1	19.42	14.70

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
19	INTEGRAL PCC CURB AND GUTTER, TYPE 3	117'
20	INTEGRAL PCC CURB AND GUTTER, TYPE 3	696'
21	INTEGRAL PCC CURB AND GUTTER, TYPE 3	726'
22	PCC CURB, TYPE 3	16'
23	PCC CURB, TYPE 3	25'
24	INTEGRAL PCC CURB AND GUTTER, TYPE 3	83'

- (a) 4" CURB REVEAL FROM STA. 51+22.60 TO STA. 51+77.26
- (b) TRANSITION FACE OF PCC CURB, TYPE 3 TO BARRIER SHAPE AT BARRIER TIE-IN. USE 10' TRANSITION LENGTH.
- (c) TRANSITION FROM 4" CURB REVEAL AT STA. 52+59.26 TO 2" CURB REVEAL AT STA. 52+66.60. PROVIDE 2" CURB REVEAL FROM STA. 52+66.60 TO STA. 53+22.92.



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	ENTRANCE SPECIAL END ANCHORAGE	51+19.70	38.34'	6.25'
2	CURVED GUARDRAIL SECTION	51+20.39	32.13'	39.75'
3	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	51+52.25	17.00'	29.00'
4	GR-TO-BARRIER CONNECTION, APPR. TYPE 2-31	51+81.24	16.64'	A
5	END TREATMENT ATTENUATOR, TYPE 1-31	51+45.39	-24.66'	50.00'
6	GR-TO-BARRIER CONNECTION, APPR. TYPE 2-31	51+96.22	22.59'	A
7	GR-TO-BARRIER CONNECTION, APPR. TYPE 2-31	52+34.41	15.45'	A
8	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	52+54.13	16.54'	12.50'
9	END TREATMENT ATTENUATOR, TYPE 1-31	52+69.10	17.00'	50.00'
10	GR-TO-BARRIER CONNECTION, APPR. TYPE 2-31	52+49.27	-22.41'	A
11	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	52+69.10	-22.61'	25.00'
12	END TREATMENT ATTENUATOR, TYPE 1-31	52+94.07	-22.67'	50.00'

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
2	51+66.00	32.00' L	48" x 48"	19.50	13.81
3	52+73.85	29.52' L	48" x 30"	19.90	14.30

RIGHT-OF-WAY MONUMENT SCHEDULE					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	
45	45+92.33	-60.00'	469106.9436	600837.0606	
46	49+68.19	-40.00'	468853.0966	601114.9798	
47	51+58.00	-42.00'	468734.2645	601262.9964	
48	53+00.00	-38.00'	468641.1125	601370.2471	
49	49+92.75	40.00'	468775.6732	601083.2243	

RIP-RAP SCHEDULE					
NO.	TYPE	LENGTH	WIDTH	AREA	THICKNESS
1	R-6	12'	14'	12 SY	27"
2	R-4	29'	39'	83.5 SY	12"
3	R-4	6'	8.5'	4 SY	20"

* - PLACED ON SLOPE.

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
2	24" CONC	0.0089	NO
3	18" CONC	0.0058	NO



ADDENDUMS / REVISIONS

REVISIONS



CARTER ROAD (K137)
SUNNYSIDE ROAD TO
WHEATLEYS POND ROAD

CONTRACT
T200301601

COUNTY
KENT

BRIDGE NO.

DESIGNED BY: CC

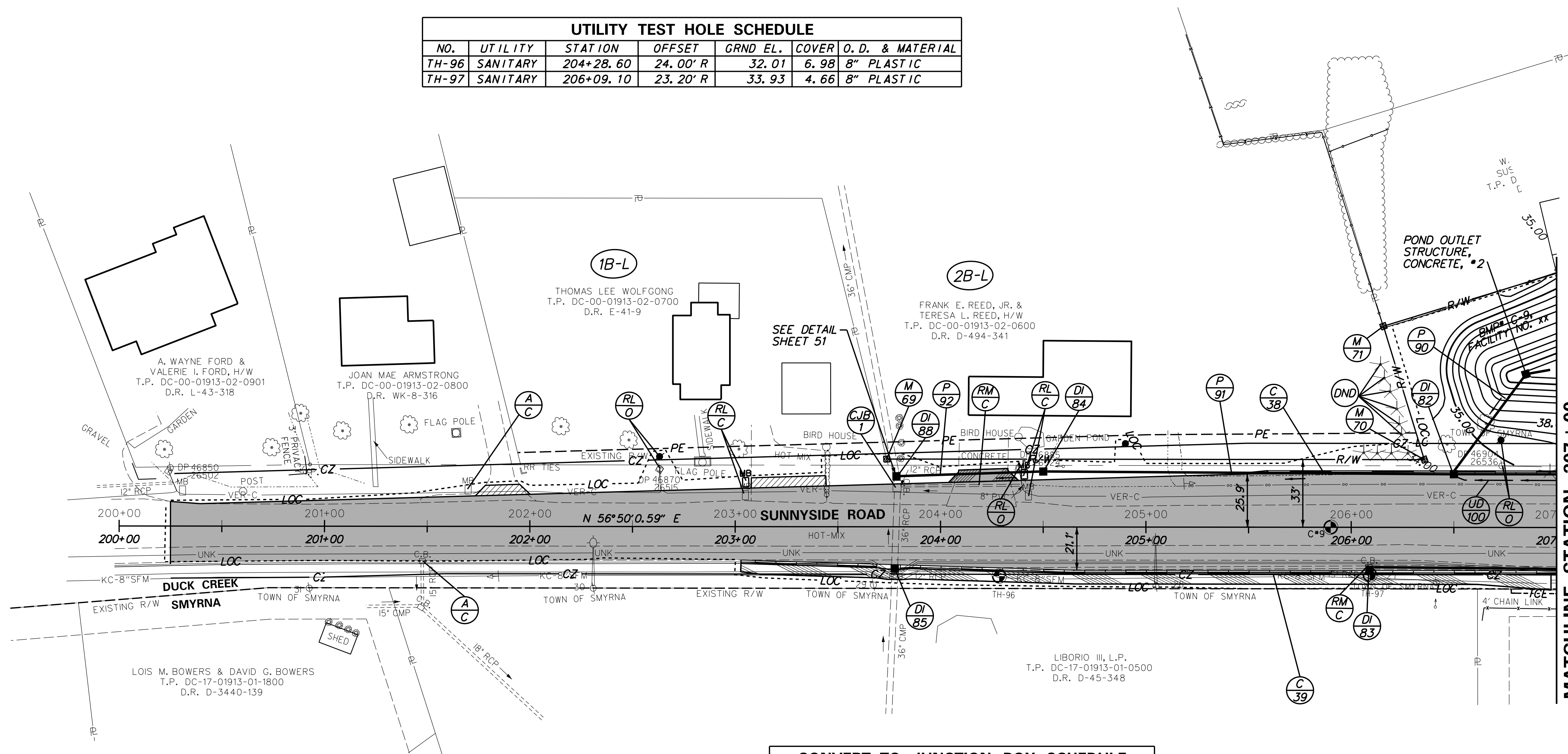
CHECKED BY: JP

CONSTRUCTION PLAN

SHEET NO.
20

TOTAL SHTS.
134

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-96	SANITARY	204+28.60	24.00' R	32.01	6.98	8" PLASTIC
TH-97	SANITARY	206+09.10	23.20' R	33.93	4.66	8" PLASTIC



MATCHLINE STATION 207+00

CONVERT TO JUNCTION BOX SCHEDULE				
NO.	STATION	OFFSET	T. C. EL.	INV. EL.
1	203+78.15	19.12' L	29.75	-----**

** - MAINTAIN EXISTING INVERT

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
82	206+50.00	26.90' L	34" X 24"	1	33.34	30.40
83	206+08.00	21.10' R	48" X 48"	1	32.95	28.75
84	204+50.00	27.00' L	34" X 24"	3	30.50	27.47
85	203+78.00	20.00' R	72" X 48"*	1	31.10	25.75
88	203+78.50	24.63' L	66" X 30"	3	30.60	25.65**

* - DRAINAGE INLET, SPECIAL 111
 ** - ADJUST INVERT TO MATCH EXISTING 36" CMP INVERT

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
38	INTEGRAL PCC CURB AND GUTTER, TYPE 3	143'
39	INTEGRAL PCC CURB AND GUTTER, TYPE 3	378'

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
90	15" RCP	IV	57.00	0.0317	32.50	30.60
91	15" RCP	IV	197.00	0.0142	30.40	27.60
92	15" RCP	IV	68.00	0.0050	27.47	27.13

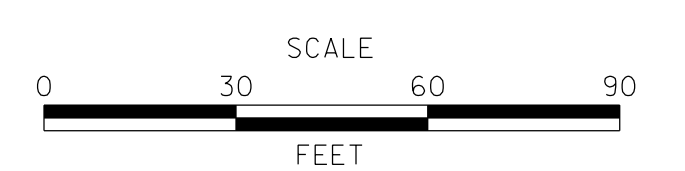
RIGHT-OF-WAY MONUMENT SCHEDULE				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
69	203+73.74	-33.00'	467009.0545	602511.6472
70	206+35.57	-33.00'	467152.2940	602730.8197
71	206+15.60	-97.98'	467195.7610	602678.5544

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
12091	FORCE MAIN	204+28.60	24.00' R	32.01	6.98	8" PLASTIC
12079	FORCE MAIN	206+09.10	23.20' R	33.93	4.66	8" PLASTIC

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
9	205+90	1' RT.	5" ASPHALT



ADDENDUMS / REVISIONS	
▲	REVISED DI-88 SIZE TO 66" X 30"



**CARTER ROAD (K137)
 SUNNYSIDE ROAD TO
 WHEATLEYS POND ROAD**

CONTRACT T200301601	BRIDGE NO.
COUNTY KENT	DESIGNED BY: CC
	CHECKED BY: JP

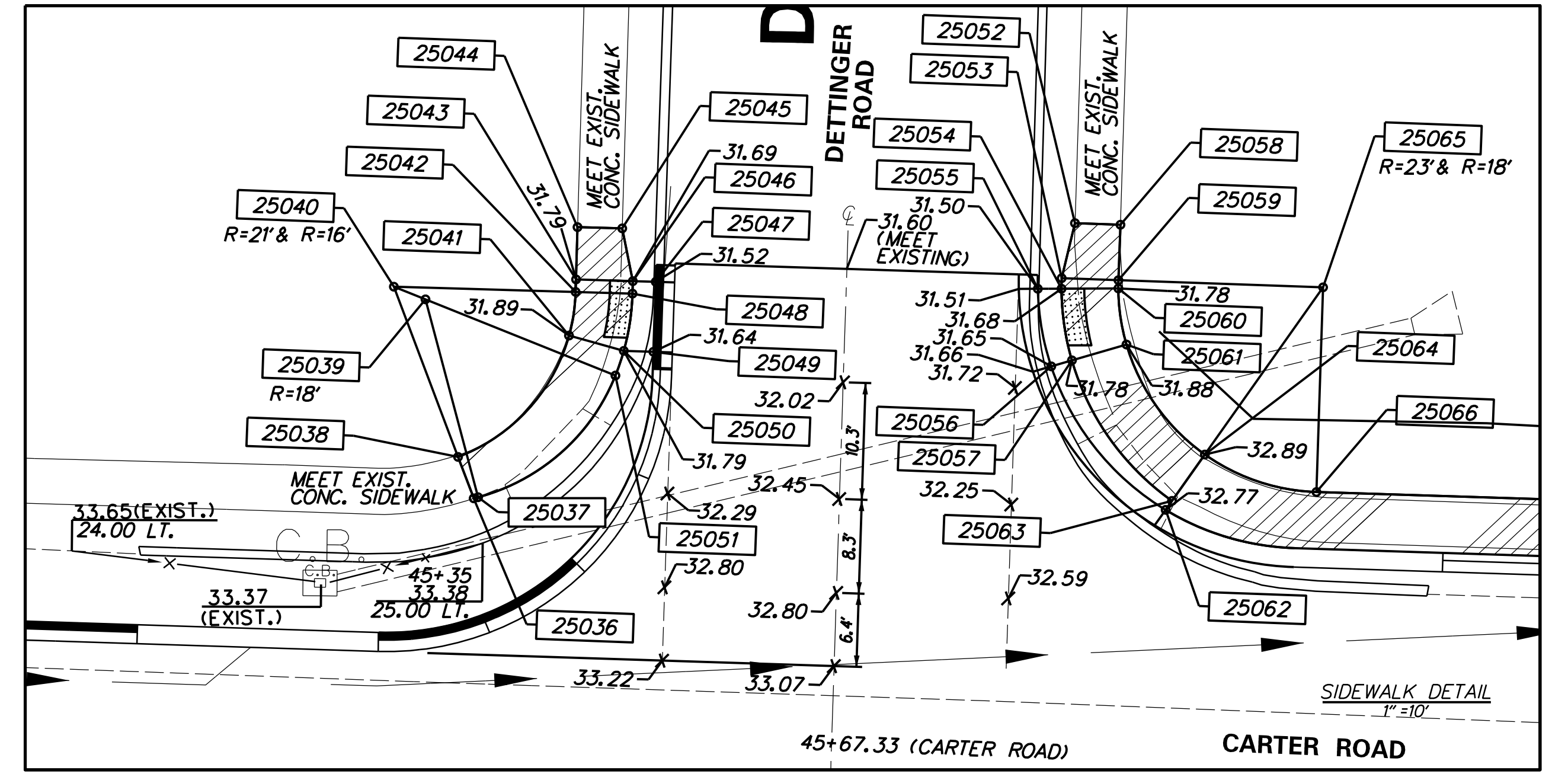
CONSTRUCTION PLAN

SHEET NO.	24
TOTAL SHTS.	134

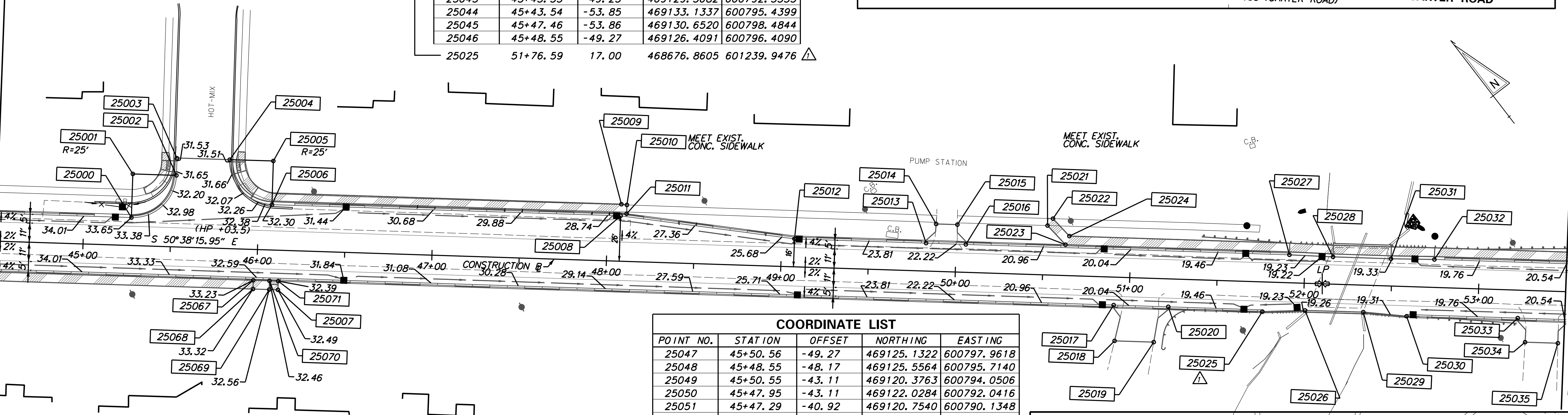
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
25000	45+27.22	-16.00	469114.2180	600758.8161
25001	45+27.22	-41.00	469133.5468	600774.6717
25002	45+52.22	-40.97	469117.6674	600793.9808
25003	45+52.23	-50.76	469125.2321	600800.2018
25004	45+82.47	-50.94	469106.1955	600823.6931
25005	46+07.47	-51.00	469090.3835	600843.0576
25006	46+07.47	-26.00	469071.0547	600827.2020
25007	46+12.47	22.67	469030.2569	600800.2024
25008	48+07.33	-26.00	468944.2989	600981.7247
25009	48+07.58	-32.67	468949.2951	600986.1456
25010	48+10.72	-32.35	468947.0556	600988.3794
25011	48+10.74	-27.33	468943.1562	600985.2068
25012	49+07.33	-16.00	468873.1452	601052.6976
25013	49+82.76	-16.00	468825.3015	601111.0219
25014	49+88.15	-27.17	468830.5164	601122.2716
25015	50+00.34	-27.17	468822.7884	601131.6924
25016	50+05.53	-16.00	468810.8593	601128.6278
25017	50+91.29	16.00	468731.7308	601174.6344
25018	50+92.49	36.47	468715.1483	601162.5788
25019	51+14.92	36.47	468700.9182	601179.9260
25020	51+22.60	16.00	468711.8735	601198.8415

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
25021	50+52.00	-28.29	468790.8961	601172.3448
25022	50+55.00	-32.36	468792.1348	601177.2469
25023	50+62.62	-17.67	468775.9428	601173.8210
25024	50+64.69	-22.67	468778.4950	601178.5933
25025	51+77.26	17.00	468676.4343	601240.4672
25026	52+00.98	15.55	468662.5059	601259.7279
25027	51+91.04	-16.00	468693.2084	601272.0509
25028	52+16.04	-15.62	468677.0589	601291.1385
25029	52+34.41	15.45	468641.3856	601285.6353
25030	52+59.26	17.00	468624.4265	601303.8677
25031	52+49.27	-15.62	468655.9814	601316.8333
25032	52+74.14	-16.00	468640.5041	601336.3005
25033	53+22.92	16.00	468584.8254	601353.7204
25034	53+27.58	29.67	468571.3020	601348.6575
25035	53+46.37	29.67	468559.3864	601363.1833
25036	45+35.18	-29.73	469119.7801	600773.6766
25037	45+35.55	-29.84	469119.6294	600774.0380
25038	45+33.69	-33.32	469123.5099	600774.8047
25039	45+30.37	-47.08	469136.2432	600780.9650
25040	45+27.55	-48.10	469138.8247	600779.4367
25041	45+43.10	-44.30	469126.0275	600789.0404
25042	45+43.55	-48.15	469128.7156	600791.8385
25043	45+43.55	-49.25	469129.5682	600792.5335
25044	45+43.54	-53.85	469133.1337	600795.4399
25045	45+47.46	-53.86	469130.6520	600798.4844
25046	45+48.55	-49.27	469126.4091	600796.4090

25025	51+76.59	17.00	468676.8605	601239.9476
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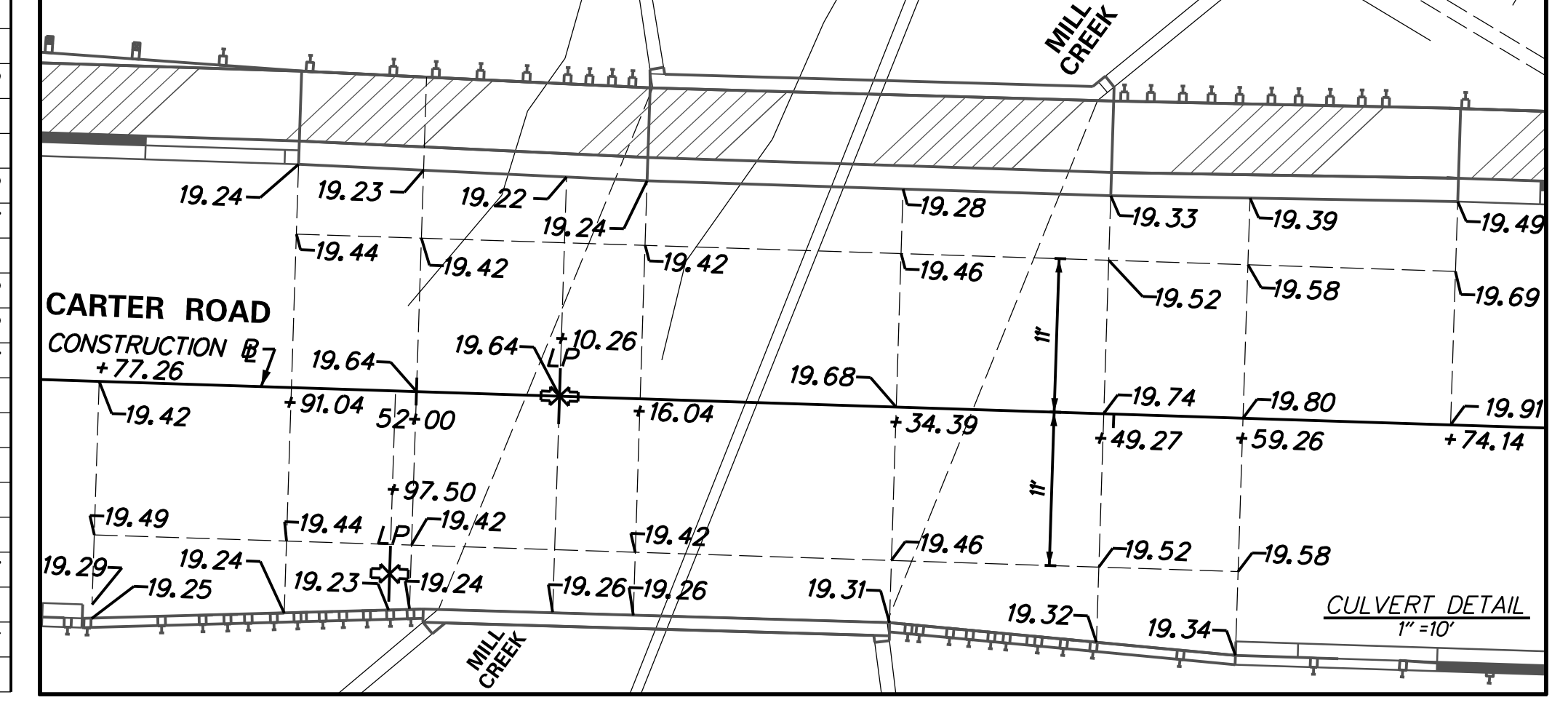


MATCHLINE STATION 44 + 50

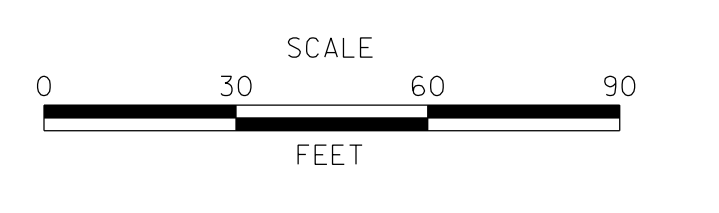


MATCHLINE STATION 53 + 50

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
25047	45+50.56	-49.27	469125.1322	600797.9618
25048	45+48.55	-48.17	469125.5564	600795.7140
25049	45+50.55	-43.11	469120.3763	600794.0506
25050	45+47.95	-43.11	469122.0284	600792.0416
25051	45+47.29	-40.92	469120.7540	600790.1348
25052	45+87.25	-55.60	469106.7620	600830.3514
25053	45+86.24	-50.74	469103.6451	600826.4769
25054	45+86.25	-49.81	469102.9192	600825.9018
25055	45+84.17	-49.73	469104.1812	600824.2409
25056	45+85.56	-42.95	469098.0535	600821.0209
25057	45+87.37	-43.54	469097.3641	600822.7878
25058	45+91.25	-55.59	469104.2180	600833.4333
25059	45+91.24	-50.72	469100.4623	600830.3330
25060	45+91.25	-50.00	469099.8940	600829.8828
25061	45+92.12	-45.09	469095.5466	600827.4458
25062	45+96.03	-30.66	469081.9150	600821.3153
25063	45+96.56	-31.47	469082.2022	600822.2430
25064	45+99.32	-35.65	469083.6808	600827.0194
25065	46+09.24	-50.67	469089.0034	600844.2144
25066	46+09.24	-32.67	469075.0867	600832.7984
25067	45+98.17	17.67	469043.1920	600792.3174
25068	45+98.17	22.67	469039.3262	600789.1463
25069	46+07.47	22.67	469033.4280	600796.3366
25070	46+07.47	17.67	469037.2937	600799.5077
25071	46+12.47	17.67	469034.1226	600803.3735



ADDENDUMS / REVISIONS	
1	REVISED POINT NO. 25025



**CARTER ROAD (K137)
SUNNYSIDE ROAD TO
WHEATLEYS POND ROAD**

CONTRACT T200301601	BRIDGE NO.
COUNTY KENT	DESIGNED BY: CC
	CHECKED BY: JP

GRADES & GEOMETRICS

SHEET NO. 44
TOTAL SHTS. 134

MAINTENANCE OF TRAFFIC NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO THE APPROPRIATE CASE OF THE TRAFFIC CONTROL MANUAL.
2. GRADING AND MAINTAINING HOT MIX TEMPORARY ROADWAY MATERIAL THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC. EXCESS HOT MIX TEMPORARY ROADWAY MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR HOT MIX TEMPORARY ROADWAY MATERIAL PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT..
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH OTHER CONTRACTORS.
4. REMOVAL OF THE EXISTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER SHALL BE PAID UNDER ITEM 748530 - REMOVAL OF PAVEMENT STRIPING.
5. ALL TEMPORARY WARNING SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND WILL BE PAID FOR IN ACCORDANCE WITH ITEM 743525, TEMPORARY WARNING SIGNS.
6. TRAFFIC OFFICERS (ITEM 743007) SHALL BE USED AS DIRECTED BY THE ENGINEER. GENERAL GUIDANCE IS GIVEN IN THE SEQUENCE OF CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLY AND INSTALLATION OF LOOP DETECTION WIRE FOR ALL TEMPORARY AND PERMANENT LOOPS AND WILL BE PAID FOR IN ACCORDANCE WITH ITEM 746774, SUPPLY AND INSTALLATION OF LOOP DETECTION WIRE. SIGNAL HEAD INSTALLATION, REMOVAL AND RELOCATION TO BE PERFORMED BY DELDOT TRAFFIC.
8. THE CONTRACTOR SHALL SUPPLY MESSAGE BOARDS UNDER ITEM ~~743514~~ ⁷⁴³⁵⁵¹ FURNISH AND MAINTAIN MESSAGE BOARD. THE CONTRACTOR MUST DESIGNATE WHO SHALL BE RESPONSIBLE FOR THESE MESSAGE BOARDS AND PROVIDE EMERGENCY CONTACT INFORMATION FOR THE PERSON RESPONSIBLE FOR THE MESSAGE BOARDS. THESE DEVICES SHALL BE LOCATED AT SITES DESIGNATED BY THE ENGINEER. REPROGRAMMING AND MOVING THE MESSAGE BOARDS TO DIFFERENT LOCATIONS DURING CONSTRUCTION WILL BE INCIDENTAL TO ITEM 743551. MESSAGE BOARDS SHALL BE POSTED ONE (1) WEEK PRIOR TO CHANGES IN TRAFFIC PATTERNS AND SHALL BE REMOVED ONE (1) WEEK AFTER THE NEW TRAFFIC PATTERN IS IN PLACE. FOR DETOURS, MESSAGE BOARDS SHALL BE POSTED TEN (10) DAYS IN ADVANCE. THE CONTRACTOR SHALL CONTACT THE DELDOT TRAFFIC SECTION TO CONFIRM MESSAGE BOARD MESSAGES. SIX (6) PLASTIC DRUMS SHALL BE PLACED IN FRONT OF THE MESSAGE BOARD.
9. MEASURES FOR MAINTAINING PUBLIC TRAFFIC, SUCH AS TEMPORARY ROADS, DETOURS, RUNAROUNDS AND THE LIKE SHALL BE CONSTRUCTED UTILIZING APPLICABLE STANDARD BID ITEMS, NOT TEMPORARY ROAD MATERIAL (TRM). TRM IS INTENDED FOR MAINTAINING INGRESS AND EGRESS TO PROPERTIES FOR BUSINESSES AS WELL AS MAINTENANCE OF EXISTING ROADWAYS.
10. IF AN OPEN TRENCH ACCESSIBLE BY THE PUBLIC CANNOT BE BACK FILLED PRIOR TO THE END OF THE WORKING DAY, A STEEL PLATE WITH A 1-INCH MINIMUM THICKNESS SHALL BE USED TO PROTECT THE TRENCH AREA. IF STEEL PLATES ARE USED, THE COST OF THE STEEL PLATES SHALL BE INCIDENTAL TO THE COST OF THE ITEM BEING CONSTRUCTED. PRIOR TO USE, THE CONTRACTOR SHALL SUBMIT, TO THE ENGINEER, A PLAN OR DESIGN OF THE INTENDED METHOD TO BRACE, SHEET, SUPPORT, OR SHORE THE EXCAVATION AND TO PREVENT A TRENCH FAILURE WHILE THE WALLS OF THE TRENCH ARE UNDER THE LOAD OF TRAFFIC. THE PLAN SHOULD INCLUDE DETAILS OF THE PLATING DESIGN, THE METHOD OF FASTENING OF PLATES, PLATE THICKNESS, SPAN, BEARING, AND THE METHOD OF PREVENTING ENGINEER REGISTERED IN DELAWARE. WHENEVER STEEL PLATES ARE PLACED ON THE HIGHWAY, AN ADVANCE WARNING SIGN, "STEEL PLATES AHEAD", IS NEEDED. CONTRACTOR IS REQUIRED TO PROVIDE A 3-INCH WIDE WEDGE OF TYPE "B" ASPHALT AROUND STEEL PLATES. NO STEEL PLATES ARE ALLOWED FROM NOVEMBER THROUGH APRIL.

PROJECT NOTES FOR SEDIMENT AND STORMWATER MANAGEMENT

1. **MOWING:**
MOWING WITHIN THE LOC SHALL BE DONE AT THE DISCRETION OF THE ENGINEER BUT NO MORE THAN FOUR TIMES A YEAR AND CUT NOT LESS THAN SIX INCHES. COST OF MOWING SHALL BE INCIDENTAL TO THE VARIOUS SEEDING ITEMS.
2. **CONSTRUCTION ENTRANCES:**
IT IS INTENDED THAT MUD TRACKING BE ELIMINATED ON ALL STATE MAINTAINED ROADWAYS ADJOINING THE PROJECT. EACH POINT OF INGRESS AND EGRESS FROM THE PROJECT SHALL HAVE INSTALLED A STABILIZED CONSTRUCTION ENTRANCE (SCE), ITEM 268000. ALL PAVED SURFACES ADJOINING THE PROJECT LIMITS SHALL BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH WORKDAY. STABILIZED CONSTRUCTION ENTRANCES SHALL BE TOP DRESSED WITH TWO (2) INCHES OF CLEAN DE NO. 3 STONES WHEN THE VOIDS BECOME CLOGGED OR AS DIRECTED BY THE ENGINEER. ADDITIONAL STONES REQUIRED TO MAINTAIN THE ENTRANCES SHALL BE PAID UNDER THE SAME ITEM (ITEM NO. 268000). SEE SECTION 268 OF THE STANDARD SPECIFICATIONS FOR MORE DETAILS.
3. **SOIL STOCKPILES:**
STOCKPILES OF SOIL SHALL BE STABILIZED WITH ITEM 734017, TEMPORARY GRASS SEEDING, DRY GROUND AND MULCHED WITH STRAW.
4. **SEDIMENT REMOVAL:**
TEMPORARY SWALES, DEWATERING BASINS AND DIVERSIONS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THEY ARE 50 PERCENT FILLED. SILT FENCE, REINFORCED SILT FENCE, AND SEDIMENT CONTROL DIKES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50 PERCENT OF THE HEIGHT OF THE DIKE OR FENCE. SEDIMENT REMOVAL SHALL BE PAID FOR UNDER ITEM 250000, SEDIMENT REMOVAL. REMOVAL AND BACK FILLING OF TEMPORARY SEDIMENT CONTROLS WHEN THEY ARE NO LONGER NEEDED SHALL BE INCIDENTAL TO THEIR INITIAL CONSTRUCTION.

STORMWATER MANAGEMENT PONDS SERVING AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION SHALL HAVE SEDIMENT REMOVED AT TIMES DETERMINED BY THE ENGINEER AND AT THE CONCLUSION OF THE PROJECT AFTER ALL AREAS DRAINING TO THE POND HAVE BEEN VEGETATIVELY STABILIZED. COST FOR SEDIMENT REMOVAL SHALL BE PAID FOR UNDER ITEM 250000, SEDIMENT REMOVAL. ACCESS SHALL BE MAINTAINED TO ALL SEDIMENT CONTROL DEVICES REQUIRING MAINTENANCE UNTIL CONSTRUCTION PHASING AND VEGETATIVE STABILIZATION ALLOW THE REMOVAL OF THOSE CONTROLS THAT ARE NO LONGER REQUIRED. SEE SECTION 250 OF STANDARD SPECIFICATIONS FOR MORE DETAILS.
5. **STORMWATER RUNOFF:**
CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE SYSTEM UNTIL THE PROPOSED DRAINAGE SYSTEM IS CONSTRUCTED AND BECOMES FUNCTIONAL. SLOTTED PORTABLE CONCRETE BARRIERS COULD BE USED AS REQUIRED TO MAINTAIN EXISTING DRAINAGE PATTERNS.
6. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FOR ALL ROADWAYS AND PEDESTRIAN PATHWAYS OPEN TO TRAFFIC.

OPERATION OF EXISTING/PROPOSED SIGNAL AT WHEATLEYS/CARTER RD

- STAGES 1, 2 & 3: NORMAL OPERATION OF EXISTING SIGNAL.
 STAGE 4: SIGNAL TURNED OFF & HEADS COVERED
 STAGE 5: NEW SIGNAL TURNED ON AND OPERATING AT END OF STAGE.

NOT TO SCALE

CARTER ROAD (K137)
 SUNNYSIDE ROAD TO
 WHEATLEYS POND ROAD

CONTRACT	BRIDGE NO.	
T200301601	DESIGNED BY: CC	
COUNTY	CHECKED BY: JP	
KENT		

CONSTRUCTION PHASING, MOT &
 EROSION CONTROL PLANS

SHEET NO.	63
TOTAL SHTS.	134



ADDENDUMS / REVISIONS	
△	REVISED ITEM NUMBER IN NOTE 8

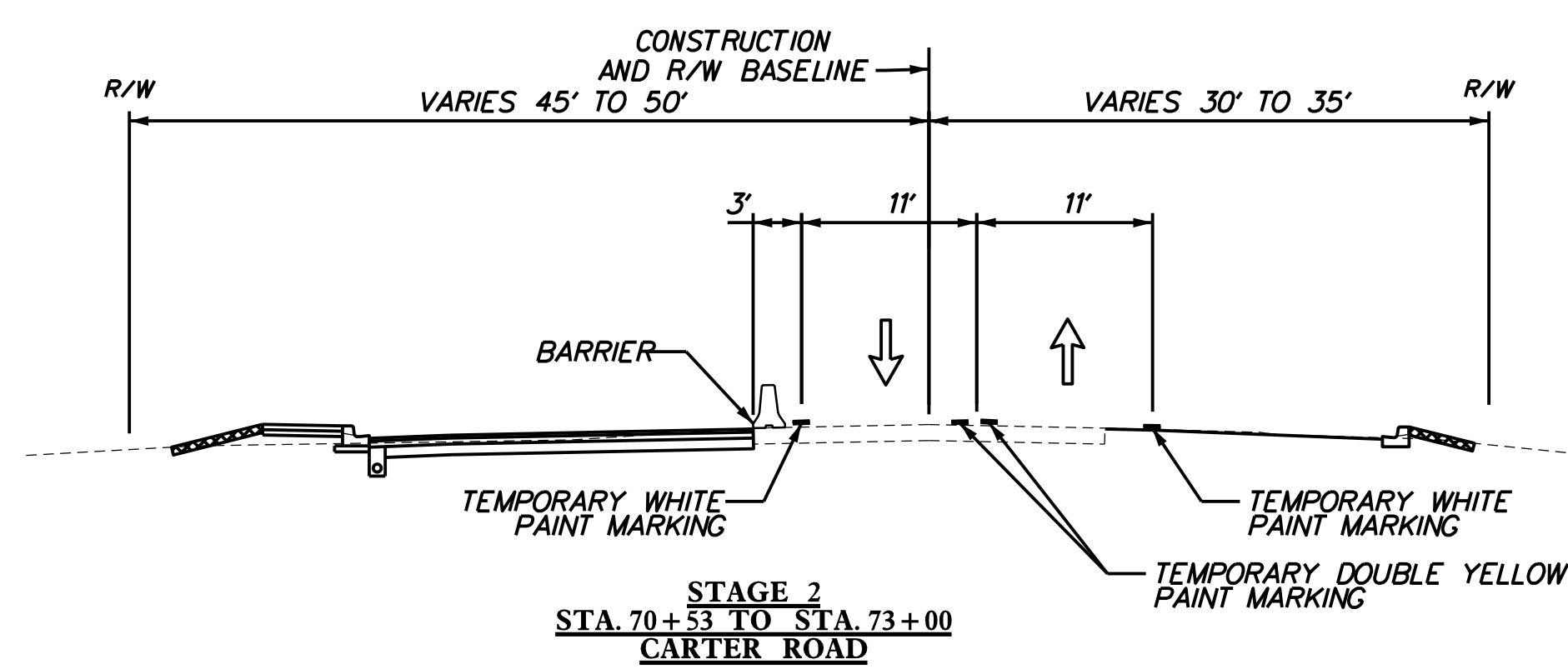
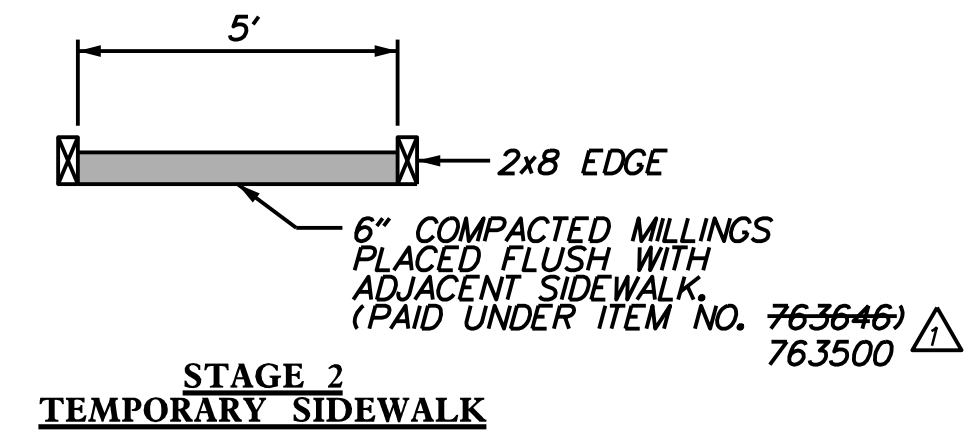
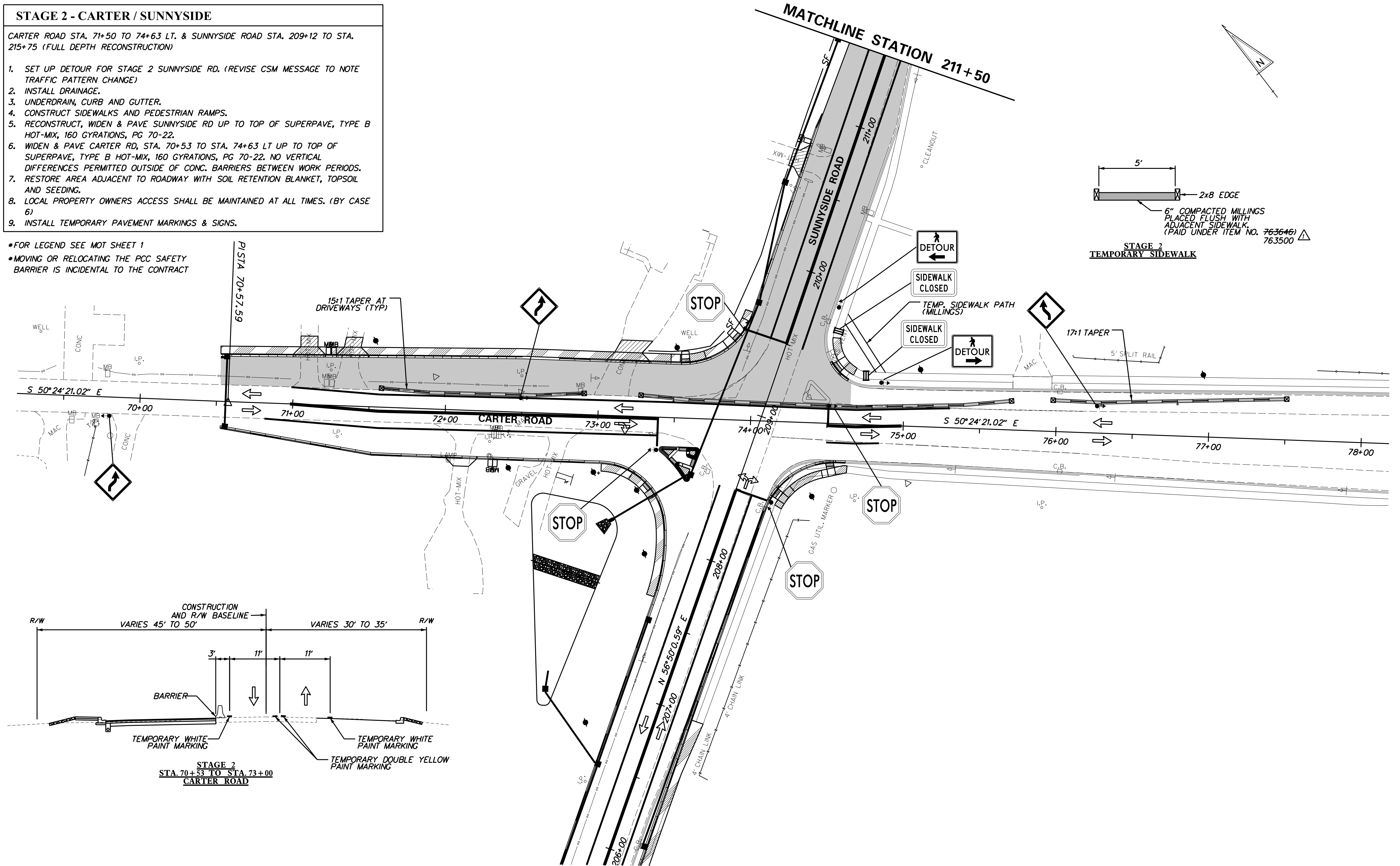
STAGE 2 - CARTER / SUNNYSIDE

CARTER ROAD STA. 71+50 TO 74+63 LT. & SUNNYSIDE ROAD STA. 209+12 TO STA. 215+75 (FULL DEPTH RECONSTRUCTION)

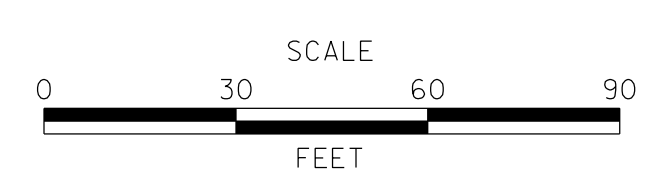
1. SET UP DETOUR FOR STAGE 2 SUNNYSIDE RD. (REVISE CSM MESSAGE TO NOTE TRAFFIC PATTERN CHANGE)
2. INSTALL DRAINAGE.
3. UNDERDRAIN, CURB AND GUTTER.
4. CONSTRUCT SIDEWALKS AND PEDESTRIAN RAMPS.
5. RECONSTRUCT, WIDEN & PAVE SUNNYSIDE RD UP TO TOP OF SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 70-22.
6. WIDEN & PAVE CARTER RD, STA. 70+53 TO STA. 74+63 LT UP TO TOP OF SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 70-22. NO VERTICAL DIFFERENCES PERMITTED OUTSIDE OF CONC. BARRIERS BETWEEN WORK PERIODS.
7. RESTORE AREA ADJACENT TO ROADWAY WITH SOIL RETENTION BLANKET, TOPSOIL AND SEEDING.
8. LOCAL PROPERTY OWNERS ACCESS SHALL BE MAINTAINED AT ALL TIMES. (BY CASE 6)
9. INSTALL TEMPORARY PAVEMENT MARKINGS & SIGNS.

*FOR LEGEND SEE MOT SHEET 1

*MOVING OR RELOCATING THE PCC SAFETY BARRIER IS INCIDENTAL TO THE CONTRACT



ADDENDUMS / REVISIONS	
▲	REVISED ITEM NUMBER IN TEMPORARY SIDEWALK DETAIL



**CARTER ROAD (K137)
SUNNYSIDE ROAD TO
WHEATLEYS POND ROAD**

CONTRACT	BRIDGE NO.
T200301601	
COUNTY	DESIGNED BY: JSV
KENT	CHECKED BY: WAM

**CONSTRUCTION PHASING
MAINTENANCE OF TRAFFIC
AND EROSION CONTROL
STAGE 2**

SHEET NO.
79
TOTAL SHTS.
134