



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

March 8, 2018

**Addendum No. 1**

RE: Contract # C204096

WBS # 34821.3.7

STATE FUNDED

**Guilford County (U-2525C)**

Greensboro Eastern Loop From US-29 North Of Greensboro

To SR-2303 (Lawndale Drive)

**March 20, 2018 Letting**

To Whom It May Concern:

**The Contractor is hereby notified that, as a matter of information only, the Roadway Subsurface Recommendations Report and Recommendations Letter Report for this project have been posted on the web along with the other information for this project.**

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the plans:

Sheet No.	Revisions
1A	Revised the index to show Sheet "2G-4" as the last Geotech detail
New 3B-3 and 3B-4	New Sheets showing guardrail summaries that were inadvertently omitted
ITS-8	Revised to show the "Video Processing Unit" in the System Block Diagram

Please void sheet No. 1A and ITS-8 in your plans and staple the revised sheet thereto.  
Please staple new sheet Nos. 3B-3 and 3B-4 after existing Sheet No. 3B-2 in your plans.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 03-08-2018".

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
CONTRACT STANDARDS AND DEVELOPMENT  
1591 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1591

*Telephone:* (919) 707-6900  
*Fax:* (919) 250-4127  
*Customer Service:* 1-877-368-4968

*Location:*  
1020 BIRCH RIDGE DR.  
RALEIGH, NC 27610

*Website:* www.ncdot.gov

Page No.	Revisions
G-10	Revised the list of delayed parcels within the project special provisions entitled "Delay In Right Of Entry" and "Delay In Right Of Way"
G-11	Updated the diesel fuel price within the project special provision entitled "Fuel Price Adjustment"
R-13	Updated the base asphalt binder price within the project special provision entitled "Price Adjustment- Asphalt Binder For Plant Mix"
R-41 and New R-42	Added the project special provision entitled "Automated Machine Guidance"
ITS-5	Revised the ITS Table Of Contents to reflect the addition the project special provision for "Digital Video Equipment"
ITS-94 thru ITS-96	Revised to add the project special provision entitled "Digital Video Equipment". (Subsequent pages are renumbered accordingly)

Please void the Proposal Cover and the above listed pages in your proposal and staple the revised pages thereto.

On the item sheets the following pay item quantities have been revised and a new pay item has been added:

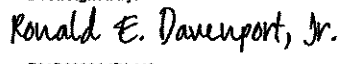
<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
513-826500000-E-430	54" Prestressed Concrete Girders	1,491 LF	2,382.26 LF
514-827400000-E-430	Modified 63" Prestressed Concrete Girders	6,593.64 LF	5,702.38 LF
529-798000000-N-SP	Video Processing Unit	NEW ITEM	1 EA

The Contractor's bid must be based on the revised pay item quantities and must include the new pay item.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:  
  
 F81B8038A47A442...  
 Ronald E. Davenport, Jr., PE  
 State Contract Officer

RED/jag  
Attachments

cc: Mr. Lamar Sylvester, PE  
Mr. Mike Mills, PE  
Mr. Ron Hancock, PE  
Mr. Jon Weathersby, PE  
Mr. Ken Kennedy, PE  
Ms. Lori Strickland  
Project File (2)

Mr. Ray Arnold, PE  
Ms. Theresa Canales, PE  
Mr. Mike Gwyn  
Ms. Jaci Kincaid  
Ms. Penny Higgins  
Mr. Mitchell Dixon

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH, N.C.

PROPOSAL

**INCLUDES ADDENDUM No. 1 DATED 03-08-2018**

DATE AND TIME OF BID OPENING: **MARCH 20, 2018 AT 2:00 PM**

CONTRACT ID      C204096  
WBS                34821.3.7

FEDERAL-AID NO. STATE FUNDED

COUNTY            GUILFORD

T.I.P. NO.        U-2525C

MILES             5.265

ROUTE NO.

LOCATION           GREENSBORO EASTERN LOOP FROM US-29 NORTH OF GREENSBORO TO  
SR-2303 (LAWNDALE DR).

TYPE OF WORK    GRADING, DRAINAGE, PAVING, SIGNALS, ITS, AND STRUCTURES.

**NOTICE:**

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

**BIDS WILL BE RECEIVED AS SHOWN BELOW:**

**THIS IS A ROADWAY & STRUCTURE PROPOSAL**

**5% BID BOND OR BID DEPOSIT REQUIRED**

---

**DELAY IN RIGHT OF ENTRY:**

(7-1-95) (Rev. 7-15-14)

108

SP1 G22

The Contractor will not be allowed right of entry to the following parcel(s) prior to the listed date(s) unless otherwise permitted by the Engineer.

<b><u>Parcel No.</u></b>	<b><u>Property Owner</u></b>	<b><u>Date</u></b>
014	Grundman	06-01-18
028	Barley	06-01-18
029A	Barley	03-15-18
029B	Barley	03-15-18
032	Felts	06-01-18
033	Pickard	06-01-18
036	Oxford	06-01-18
042A	City of Greensboro	03-15-18
042B	City of Greensboro	03-15-18
042D	City of Greensboro	03-15-18
053	Kingdom Enterprises, LLC	03-15-18
078	Whitehall at Richland Creek HOA	03-15-18
098	Johnson	03-15-18

**DELAY IN RIGHT OF WAY:**

SP1 I-24

The Contractor shall take no action that will result in unnecessary inconvenience, disproportionate injury or any action coercive in nature to occupants of residences, businesses, farms, or non-profit organizations who have not yet moved from the right of way of the parcels below:

<b><u>Parcel No.</u></b>	<b><u>Property Owner</u></b>	<b><u>Estimated Vacating Date</u></b>
014	Grundman	05-01-18
028	Barley	05-01-18
029B	Barley	02-15-18
032	Felts	05-01-18
033	Pickard	05-01-18
053	Kingdom Enterprises, LLC	02-15-18

Extension of contract time may be granted in accordance with Article 108-10(B)3 for delays caused by interferences beyond such estimated vacating date.

**MAJOR CONTRACT ITEMS:**

(2-19-02)

104

SP1 G28

The following listed items are the major contract items for this contract (see Article 104-5 of the *2018 Standard Specifications*):

<b>Line #</b>	<b>Description</b>
6 —	Unclassified Excavation
18 —	Borrow Excavation
107 —	13” Portland Cement Concrete Pavement, Through Lanes (with Dowels)

**SPECIALTY ITEMS:**

(7-1-95)(Rev. 1-17-12)

108-6

SP1 G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the *2018 Standard Specifications*).

<b>Line #</b>	<b>Description</b>
145 - 155	Guardrail
156 - 159	Fencing
165 - 213	Signing
234 - 238 and 247 - 250	Long-Life Pavement Markings
239 - 240	Removable Tape
257 - 258	Permanent Pavement Markers
259 - 301	Lighting
302 - 352	Utility Construction
353 - 390 and 393 - 394	Erosion Control
391 - 392	Reforestation
395 - 463	Signals/ITS System
492 - 496	Drilled Piers

**FUEL PRICE ADJUSTMENT:**

(11-15-05) (Rev. 2-18-14)

109-8

SP1 G43

Revise the *2018 Standard Specifications* as follows:

**Page 1-83, Article 109-8, Fuel Price Adjustments**, add the following:

The base index price for DIESEL #2 FUEL is \$ **2.0070** per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

<b>Description</b>	<b>Units</b>	<b>Fuel Usage Factor Diesel</b>
Unclassified Excavation	Gal/CY	0.29
Borrow Excavation	Gal/CY	0.29
Class IV Subgrade Stabilization	Gal/Ton	0.55
Aggregate Base Course	Gal/Ton	0.55

excavating, backfilling, hauling and removing excavated materials, constructing temporary walls, installing wall facing, geotextiles and drains, compacting backfill and supplying select material, separation and reinforcement geotextiles, welded wire facing, drain pipes, pipe sleeves, outlet pipes and pads and any incidentals necessary to construct alternate approach fills for integral abutments.

**AUTOMATED FINE GRADING:**

(1-16-96)

610

SP5 R05

On mainline portions and ramps of this project, prepare the subgrade and base beneath the pavement structure in accordance with the applicable sections of the *2018 Standard Specifications* except use an automatically controlled fine grading machine using string lines, laser controls or other approved methods to produce final subgrade and base surfaces meeting the lines, grades and cross sections required by the plans or established by the Engineer.

No direct payment will be made for the work required by this provision as it will be considered incidental to other work being paid for by the various items in the contract.

**PRICE ADJUSTMENT - ASPHALT BINDER FOR PLANT MIX:**

(11-21-00)

620

SP6 R25

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the *2018 Standard Specifications*.

The base price index for asphalt binder for plant mix is \$ **430.45** per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on **January 1, 2018**.

**ASPHALT CONCRETE PLANT MIX PAVEMENTS:**

(2-20-18)

610, 1012

SP6 R65

Revise the *2018 Standard Specifications* as follows:

**Page 6-17, Table 610-1, MIXING TEMPERATURE AT THE ASPHALT PLANT**, replace with the following:

<b>Binder Grade</b>	<b>JMF Temperature</b>
PG 58-28; PG 64-22	250 - 290°F
PG 76-22	300 - 325°F

**Page 6-17, Subarticle 610-3(C), Job Mix Formula (JMF), lines 38-39**, delete the fourth paragraph.

**Page 6-18, Subarticle 610-3(C), Job Mix Formula (JMF), line 12**, replace "SF9.5A" with "S9.5B".

Percentage of elapsed contract time is defined as the number of calendar days from the date of availability of the contract to the date the permanent seeding and mulching is acceptably completed divided by the total original contract time.

### **AUTOMATED MACHINE GUIDANCE**

(1-2-11)

SPI 5-05

#### **General**

This Special Provision contains requirements to be followed if the Contractor elects to use Global Positioning System (GPS) machine control grading and shall be used in conjunction with Section 801 of the *Standard Specifications*. The use of this technology is referenced as Automated Machine Guidance (AMG).

All equipment using AMG shall be able to generate end results that meet the *Standard Specifications*. Perform test sections for each type of work to be completed with AMG to demonstrate that the system has the capability to achieve acceptable results. If acceptable results cannot be achieved, conform to the requirements for conventional stakeout.

The Contractor shall be responsible for all errors resulting from the use of AMG and shall correct deficiencies to the satisfaction of the Engineer at no cost to the Department.

#### **Submittals**

If the Contractor elects to use AMG, a Digital Terrain Model (DTM) of the design surface and all intermediate surfaces shall be developed and submitted to the Engineer for review.

At least 90 days prior to beginning grading operations, the Contractor shall submit to the Engineer an AMG work plan to include, but not limited to, proposed equipment, control software manufacturer and version, types of work to be completed using AMG, project site calibration report, repetitive calibration methods for construction equipment and rover units to be used for the duration of the project, and local GPS base station to be used for broadcasting differential correction data to rover units (this may include the NC Network RTK). All surveys must be tied to existing project control as established by NCDOT.

#### **Inspection**

The Engineer will perform quality assurance checks of all work associated with AMG. If it is determined that work is not being performed in a manner that will assure accurate results, the Engineer may require corrective action at no cost to the Department.

The Contractor shall provide the Engineer with one GPS rover unit for use during the duration of the contract. The rover will be loaded with the same model that is used with the AMG and have the same capability as rover units used by the Contractor. The rover will be kept in the possession of the Engineer and will be returned to the Contractor upon completion of the contract. Any maintenance or repairs required for the rover will be the responsibility of the Contractor. Formal training of at least 8 hours shall be provided to the Engineer by the Contractor on the use of the proposed AMG system.



**Subgrade and Base Controls**

If the Contractor elects to use AMG for fine grading and placement of base or other roadway materials, the GPS shall be supplemented with a laser or robotic total station. Include details of the proposed system in the AMG work plan. In addition, the following requirements apply for the use of AMG for subgrade and base construction.

Provide control points at intervals along the project not to exceed 1,000 feet. The horizontal position of these points shall be determined by static GPS sessions or by traverse connection from the original base line control points. The elevation of these control points shall be established using differential leveling from project benchmarks, forming closed loops where practical. A copy of all new control point information shall be provided to the Engineer prior to construction activities.

Provide control points and conventional survey grade stakes at 500 foot intervals and at critical points such as, but not limited to, PCs, PTs, superelevation transition points, and other critical points as requested by the Engineer.

Provide hubs at the top of the finished subgrade at all hinge points on the cross section at 500 foot intervals. These hubs shall be established using conventional survey methods for use by the Engineer to check the accuracy of construction.

**Measurement and Payment**

No direct payment will be made for work required to utilize this provision. All work will be considered incidental to various grading operations.

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Payment for all LAN integration, RDD development, cabling, jumpers, adapters, sockets, LAN patch panels, and other hardware shall be considered incidental and no separate payment will be made.

Payment will be made under:

Pay Item	Pay Unit
Central Media Converter.....	Each
ITS Field Ethernet Switch.....	Each

**22. DIGITAL VIDEO EQUIPMENT**

**22.1. DESCRIPTION**

Furnish and install a video processing unit (VPU), using software to decode digitized video signals from the CCTV cameras and to manage the switching of video images onto user selectable video monitors. Ensure VPU is fully compatible with the existing video management software in the Triad Region and the STOC.

**22.2. MATERIALS**

**A. General**

Provide a server class computer that will serve as a video processing unit. Provide video monitor display cards to operate the existing display monitors. The video processing unit shall meet the following requirements:

- Support Windows® 7 Professional (64-Bit) operating system,
- Occupy no more than three rack units,
- Include 10/100/1000 MB network interface cards,
- Include one terabyte of storage,
- Include a quad core (or better) processor,
- Minimum of 8 Gigabytes of RAM,
- Provide software-based video decoding for a minimum of sixteen (16) H.264 video streams at 25 frames per second.
- Provide video monitor display cards described below.

**B. Video Monitor Display Card**

Provide video display output cards that meet the following requirements:

- Form Factor: ATX,
- Graphics Bus: PCI Express 2.0 x16,
- Number of Slots: One,
- Resolution: Up to 3840 x 2160 @ 60Hz,
- Memory interface: 128-bit,

- Frame buffer memory: 2 GB DDR3,
- Memory bandwidth: 28.5 GB/s per graphics processor unit (GPU),
- Display Connectors: 4x mini DisplayPort,
- Passive Heat sink.

**C. Display Connector Cables**

Furnish display connector cable with the appropriate connectors at each end to connect the outputs of the video monitor display card to the existing video monitors.

**D. Software**

Furnish and install software onto the VPU to decode, switch and display video streams onto the existing video monitors.

**1. Decoding Software**

Furnish decoder software to decode the digitized video from existing CCTV cameras as well as the CCTV cameras installed on this project.

Furnish decoder software that supports multiple video formats, specifically MPEG-2 and MPEG-4.

Furnish decoder software that permits the easy addition and configuration of encoders and cameras into the database as well as the ability to manage and identify cameras and encoders within the system.

Furnish software that allows additional video decoders to be easily added to the system.

**2. Video Switching Software**

Furnish video switching software that enables a user to pair an encoder with video decoder using the drag and drop method. Once paired, the VPU will instantly start decoding the digitized video stream and display it on the video window.

Furnish video switching software that enables decoded video to be displayed on multiple monitor outputs on a single VPU and allows a user to drag and drop any given video output to any video display.

Furnish video switching software that allows a user to split each video window into four, nine and sixteen streams.

**22.3. CONSTRUCTION METHODS**

**A. Video Processing Unit**

Install the video processing unit in an existing communications rack in the TRTMC. Integrate the unit with the Ethernet LAN switch and video display subsystem.

Install and configure the video decoding software and video switching software on the video processing unit. Configure the decoding software to decode digitized video streams from existing CCTV cameras as well as the new CCTV cameras installed on this project.

Configure the video switching software to pair encoders with the correct decoders.

**22.4. MEASUREMENT AND PAYMENT**

*Video processing unit* will be measured and paid as the actual number of video processing units furnished, installed and accepted. No separate payment will be made for the video display output card as this will be considered incidental to furnishing and installing the video processing units. No separate measurement nor payment will be made for installing and configuring the video decoding, video switching or client software as such work will be considered incidental to furnishing and installing the video processing unit.

No separate measurement will be made for video cables, cable connectors, communication cables, Ethernet cables between equipment housed within the same room/rack/cabinet, electrical cables, mounting hardware, nuts, bolts, brackets, connectors, grounding equipment, surge suppression, or documentation as these will be considered incidental to furnishing and installing the video processing unit.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Video Processing Unit .....	Each

**23. INTEGRATION AND CONFIGURATION**

**23.1. DESCRIPTION**

Fully configure existing central hardware and software at the TRTMC to establish communications with new CCTV and DMS devices.

Fully configure existing central hardware and software at the TRTMC to establish communications with new Travel Time Signs utilizing two (2) department furnished cellular modems.

Provide the Engineer at least six (6) weeks notice in advance of anticipated installation of cellular modems.

Coordinate the working hours and building access for all central configuration activities with the Engineer.

**23.2. CENTRAL INTEGRATION**

Furnish media access control (MAC) addresses for all equipment utilized as part of this project. Affix MAC Address label to each device utilized. Furnish IP addresses for all equipment utilized as part of this project. Affix final IP address each device utilized. Use labels that do not smear or fade.

Integrate the existing core Ethernet switch with the existing fiber optic interconnect center such that the current communications topology is preserved. Configure the core Ethernet switch and ports as required to establish communications to field Ethernet switches.

Configure the existing CCTV server to recognize the new CCTV units and process the video and control data for sharing with the TRTMC.

Integrate the serial device servers with the core Ethernet switch and existing DMS server.

County: Guilford

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S)	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUB- BING	5 ACR		
0005	0015000000-N	205	SEALING ABANDONED WELLS	10 EA		
0006	0022000000-E	225	UNCLASSIFIED EXCAVATION	2,300,000 CY		
0007	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (25+52.71 -Y7-)	Lump Sum	L.S.	
0008	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (337+20.09 -L- LT)	Lump Sum	L.S.	
0009	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (337+20.09 -L- RT)	Lump Sum	L.S.	
0010	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (17+37.28 -Y16-)	Lump Sum	L.S.	
0011	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (22+29.98 -Y5-)	Lump Sum	L.S.	
0012	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (28+98.81 -Y4-)	Lump Sum	L.S.	
0013	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (329+95.42 -L- LT)	Lump Sum	L.S.	
0014	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (329+95.42 -L- RT)	Lump Sum	L.S.	
0015	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (470+43.12 -L- LT)	Lump Sum	L.S.	

County : Guilford

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0016	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (470+43.12 -L- RT)	Lump Sum	L.S.	
0017	0036000000-E	225	UNDERCUT EXCAVATION	115,000 CY		
0018	0106000000-E	230	BORROW EXCAVATION	4,000,000 CY		
0019	0127000000-N	235	EMBANKMENT SETTLEMENT GAUGES	4 EA		
0020	0134000000-E	240	DRAINAGE DITCH EXCAVATION	54,624 CY		
0021	0141000000-E	240	BERM DITCH CONSTRUCTION	3,710 LF		
0022	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	22,600 SY		
0023	0192000000-N	260	PROOF ROLLING	110 HR		
0024	0195000000-E	265	SELECT GRANULAR MATERIAL	38,200 CY		
0025	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	83,900 SY		
0026	0199000000-E	SP	TEMPORARY SHORING	20,630 SF		
0027	0248000000-N	SP	GENERIC GRADING ITEM DRY DETENTION BASIN (NO 1)	Lump Sum	L.S.	
0028	0248000000-N	SP	GENERIC GRADING ITEM DRY DETENTION BASIN (NO 8)	Lump Sum	L.S.	
0029	0248000000-N	SP	GENERIC GRADING ITEM INSTRUMENTATION INSTALLATION ASSIST AT STR 7 (BR 1246) - END BENT 1	Lump Sum	L.S.	
0030	0248000000-N	SP	GENERIC GRADING ITEM INSTRUMENTATION INSTALLATION ASSIST AT STR 7 (BR 1246) - END BENT 2	Lump Sum	L.S.	
0031	0248000000-N	SP	GENERIC GRADING ITEM INSTRUMENTATION INSTALLATION ASSIST AT STRS 2 & 3 (BR 1241 & 1242) - END BENT 1	Lump Sum	L.S.	

County: Guilford

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0032	0248000000-N	SP	GENERIC GRADING ITEM INSTRUMENTATION INSTALLATION ASSIST AT STRS 2 & 3 (BR 1241 & 1242) - END BENT 2	Lump Sum	L.S.	
0033	0248000000-N	SP	GENERIC GRADING ITEM MEDIA FILTER BASIN (NO 2)	Lump Sum	L.S.	
0034	0248000000-N	SP	GENERIC GRADING ITEM MEDIA FILTER BASIN (NO 3)	Lump Sum	L.S.	
0035	0248000000-N	SP	GENERIC GRADING ITEM MEDIA FILTER BASIN (NO 4)	Lump Sum	L.S.	
0036	0248000000-N	SP	GENERIC GRADING ITEM MEDIA FILTER BASIN (NO 5)	Lump Sum	L.S.	
0037	0248000000-N	SP	GENERIC GRADING ITEM MEDIA FILTER BASIN (NO 6)	Lump Sum	L.S.	
0038	0248000000-N	SP	GENERIC GRADING ITEM MEDIA FILTER BASIN (NO 7)	Lump Sum	L.S.	
0039	0248000000-N	SP	GENERIC GRADING ITEM MEDIA FILTER BASIN (NO 9)	Lump Sum	L.S.	
0040	0248000000-N	SP	GENERIC GRADING ITEM REMOVAL & DISPOSAL OF 5 FOAM FILLED USTS	Lump Sum	L.S.	
0041	0248000000-N	SP	GENERIC GRADING ITEM SETTLEMENT MONITORING ASSIST AT STR 7 (BR 1246) - END BENT 1	Lump Sum	L.S.	
0042	0248000000-N	SP	GENERIC GRADING ITEM SETTLEMENT MONITORING ASSIST AT STR 7 (BR 1246) - END BENT 2	Lump Sum	L.S.	
0043	0248000000-N	SP	GENERIC GRADING ITEM SETTLEMENT MONITORING ASSIST AT STRS 2 & 3 (BR 1241 & 1242) - END BENT 1	Lump Sum	L.S.	
0044	0248000000-N	SP	GENERIC GRADING ITEM SETTLEMENT MONITORING ASSIST AT STRS 2 & 3 (BR 1241 & 1242) - END BENT 2	Lump Sum	L.S.	



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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0045	0255000000-E	SP	GENERIC GRADING ITEM STOCKPILING PETROLEUM CONTAMI- NATED SOIL	3,000 TON		
0046	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	7,565 TON		
0047	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	26,490 SY		
0048	0342000000-E	310	*** SIDE DRAIN PIPE (30")	1,972 LF		
0049	0342000000-E	310	*** SIDE DRAIN PIPE (42")	140 LF		
0050	0342000000-E	310	*** SIDE DRAIN PIPE (48")	16 LF		
0051	0342000000-E	310	*** SIDE DRAIN PIPE (54")	44 LF		
0052	0343000000-E	310	15" SIDE DRAIN PIPE	10,312 LF		
0053	0344000000-E	310	18" SIDE DRAIN PIPE	4,228 LF		
0054	0345000000-E	310	24" SIDE DRAIN PIPE	3,944 LF		
0055	0350000000-E	SP	**** RC PIPE CULVERTS, CON- TRACTOR DESIGN (24")	1,696 LF		
0056	0350000000-E	SP	**** RC PIPE CULVERTS, CON- TRACTOR DESIGN (36")	364 LF		
0057	0350000000-E	SP	**** RC PIPE CULVERTS, CON- TRACTOR DESIGN (42")	488 LF		
0058	0350000000-E	SP	**** RC PIPE CULVERTS, CON- TRACTOR DESIGN (48")	124 LF		
0059	0350000000-E	SP	**** RC PIPE CULVERTS, CON- TRACTOR DESIGN (54")	860 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0060	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (15", V)	4,524	LF	
0061	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (18", V)	772	LF	
0062	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (24", V)	1,348	LF	
0063	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (66", V)	360	LF	
0064	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	2,124	LF	
0065	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	760	LF	
0066	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	320	LF	
0067	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	804	LF	
0068	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	1,032	LF	
0069	0396000000-E	310	42" RC PIPE CULVERTS, CLASS III	704	LF	
0070	0402000000-E	310	48" RC PIPE CULVERTS, CLASS III	276	LF	
0071	0414000000-E	310	60" RC PIPE CULVERTS, CLASS III	232	LF	
0072	0426000000-E	310	72" RC PIPE CULVERTS, CLASS III	336	LF	
0073	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	9,080	LF	
0074	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	4,368	LF	
0075	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	2,736	LF	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0076	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	1,340 LF		
0077	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	1,816 LF		
0078	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	356 LF		
0079	0576000000-E	310	*** CS PIPE CULVERTS, ***** THICK (42", 0.109")	112 LF		
0080	0582000000-E	310	15" CS PIPE CULVERTS, 0.064" THICK	1,480 LF		
0081	0588000000-E	310	18" CS PIPE CULVERTS, 0.064" THICK	1,164 LF		
0082	0594000000-E	310	24" CS PIPE CULVERTS, 0.064" THICK	1,168 LF		
0083	0600000000-E	310	30" CS PIPE CULVERTS, 0.079" THICK	492 LF		
0084	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")	52 EA		
0085	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (18", 0.064")	28 EA		
0086	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (24", 0.064")	28 EA		
0087	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (30", 0.079")	12 EA		
0088	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (42", 0.109")	2 EA		
0089	0995000000-E	340	PIPE REMOVAL	4,027 LF		
0090	0996000000-N	350	PIPE CLEAN OUT	2 EA		
0091	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0092	1099500000-E	505	SHALLOW UNDERCUT	800 CY		
0093	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	223,780 TON		
0094	1110000000-E	510	STABILIZER AGGREGATE	500 TON		
0095	1115000000-E	SP	GEOTEXTILE FOR PAVEMENT STABILIZATION	458,190 SY		
0096	1121000000-E	520	AGGREGATE BASE COURSE	19,700 TON		
0097	1220000000-E	545	INCIDENTAL STONE BASE	1,000 TON		
0098	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (3")	1,650 SY		
0099	1330000000-E	607	INCIDENTAL MILLING	2,160 SY		
0100	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	91,760 TON		
0101	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C	45,420 TON		
0102	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	49,780 TON		
0103	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	23,260 TON		
0104	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	10,580 TON		
0105	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	1,765 TON		
0106	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	121,500 LF		
0107	1847000000-E	710	***** PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (13")	307,732 SY		
0108	1924000000-N	725	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT	Lump Sum	L.S.	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0109	2022000000-E	815	SUBDRAIN EXCAVATION	4,183 CY		
0110	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	11,750 SY		
0111	2033000000-E	815	SUBDRAIN FINE AGGREGATE	118 CY		
0112	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	1,974 CY		
0113	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	12,450 LF		
0114	2070000000-N	815	SUBDRAIN PIPE OUTLET	25 EA		
0115	2077000000-E	815	6" OUTLET PIPE	150 LF		
0116	2099000000-E	816	SHOULDER DRAIN	52,573 LF		
0117	2110000000-E	816	4" SHOULDER DRAIN PIPE	52,573 LF		
0118	2121000000-E	816	4" OUTLET PIPE FOR SHOULDER DRAINS	4,068 LF		
0119	2132000000-N	816	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	21 EA		
0120	2209000000-E	838	ENDWALLS	44.3 CY		
0121	2220000000-E	838	REINFORCED ENDWALLS	65.6 CY		
0122	2253000000-E	840	PIPE COLLARS	26.757 CY		
0123	2275000000-E	SP	FLOWABLE FILL	6 CY		
0124	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	378 EA		
0125	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	211 LF		
0126	2354000000-N	840	FRAME WITH GRATE, STD 840.22	1 EA		
0127	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	16 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0128	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	119 EA		
0129	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	157 EA		
0130	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	1 EA		
0131	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	6 EA		
0132	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	22 EA		
0133	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	27 EA		
0134	2396000000-N	840	FRAME WITH COVER, STD 840.54	29 EA		
0135	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	14 EA		
0136	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	2,025 LF		
0137	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	11,300 LF		
0138	2556000000-E	846	SHOULDER BERM GUTTER	26,700 LF		
0139	2591000000-E	848	4" CONCRETE SIDEWALK	4,090 SY		
0140	2605000000-N	848	CONCRETE CURB RAMPS	35 EA		
0141	2619000000-E	850	4" CONCRETE PAVED DITCH	190 SY		
0142	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	3,000 SY		
0143	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	5,420 LF		
0144	2800000000-N	858	ADJUSTMENT OF CATCH BASINS	1 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0145	3000000000-N	SP	IMPACT ATTENUATOR UNIT, TYPE 350	17 EA		
0146	3030000000-E	862	STEEL BEAM GUARDRAIL	41,712.5 LF		
0147	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EA		
0148	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	31 EA		
0149	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	61 EA		
0150	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	58 EA		
0151	3380000000-E	862	TEMPORARY STEEL BEAM GUARDRAIL	12.5 LF		
0152	3389150000-N	SP	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (TL-3)	2 EA		
0153	3389200000-E	865	CABLE GUIDERAIL	26,200 LF		
0154	3389500000-N	865	ADDITIONAL GUIDERAIL POSTS	70 EA		
0155	3389600000-N	865	CABLE GUIDERAIL ANCHOR UNITS	24 EA		
0156	3503000000-E	866	WOVEN WIRE FENCE, 47" FABRIC	55,000 LF		
0157	3509000000-E	866	4" TIMBER FENCE POSTS, 7'-6" LONG	3,450 EA		
0158	3515000000-E	866	5" TIMBER FENCE POSTS, 8'-0" LONG	985 EA		
0159	3565000000-E	866	DOUBLE GATES, **** HIGH, *** WIDE, *** OPENING (58", 12', 24')	4 EA		
0160	3628000000-E	876	RIP RAP, CLASS I	9,301 TON		
0161	3635000000-E	876	RIP RAP, CLASS II	95 TON		
0162	3649000000-E	876	RIP RAP, CLASS B	2,969 TON		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0163	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	35,534 SY		
0164	3659000000-N	873	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON	3 EA		
0165	4048000000-E	902	REINFORCED CONCRETE SIGN FOUN- DATIONS	13 CY		
0166	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDA- TIONS	2 CY		
0167	4057000000-E	SP	OVERHEAD FOOTING	319 CY		
0168	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	15,148 LB		
0169	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	1,199 LB		
0170	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	3,799 LF		
0171	4080000000-N	903	SUPPORTS, BARRIER (LARGE)	9 EA		
0172	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ***** (22+50 -LACFLY-)	Lump Sum	L.S.	
0173	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ***** (291+50 -L-)	Lump Sum	L.S.	
0174	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ***** (294+00 -L- LT)	Lump Sum	L.S.	
0175	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ***** (316+00 -L- LT)	Lump Sum	L.S.	
0176	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ***** (328+50 -L-)	Lump Sum	L.S.	
0177	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ***** (346+00 -L- LT)	Lump Sum	L.S.	
0178	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ***** (357+00 -L-)	Lump Sum	L.S.	



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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0179	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (383+50 -L-)	Lump Sum	L.S.	
0180	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (385+00 -L- LT)	Lump Sum	L.S.	
0181	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (419+00 -L- LT)	Lump Sum	L.S.	
0182	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (428+50 -L-)	Lump Sum	L.S.	
0183	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (450+00 -L- LT)	Lump Sum	L.S.	
0184	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (456+00 -L-)	Lump Sum	L.S.	
0185	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (468+50 -L-)	Lump Sum	L.S.	
0186	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (488+00 -L- LT)	Lump Sum	L.S.	
0187	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (507+00 -L- LT)	Lump Sum	L.S.	
0188	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (512+00 -L-)	Lump Sum	L.S.	
0189	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (529+50 -L- LT)	Lump Sum	L.S.	
0190	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (540+00 -L-)	Lump Sum	L.S.	
0191	4096000000-N	904	SIGN ERECTION, TYPE D	14 EA		
0192	4102000000-N	904	SIGN ERECTION, TYPE E	130 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0193	4108000000-N	904	SIGN ERECTION, TYPE F	31	EA	
0194	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (A)	18	EA	
0195	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (B)	1	EA	
0196	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	28	EA	
0197	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	1	EA	
0198	4114000000-N	904	SIGN ERECTION, MILEMARKERS	50	EA	
0199	4115000000-N	904	SIGN ERECTION, OVERLAY (OVER-HEAD)	112	EA	
0200	4116000000-N	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	4	EA	
0201	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	1	EA	
0202	4116200000-N	904	SIGN ERECTION, REPOSITION OVERHEAD	13	EA	
0203	4138000000-N	907	DISPOSAL OF SUPPORT, STEEL BEAM	6	EA	
0204	4149000000-N	907	DISPOSAL OF SIGN SYSTEM, OVER-HEAD	1	EA	
0205	4152000000-N	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	13	EA	
0206	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	80	EA	
0207	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	1	EA	
0208	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	57	EA	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0209	4234000000-N	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	27 EA		
0210	4236000000-N	907	DISPOSAL OF SIGN, A & B (GROUND MOUNTED)	6 EA		
0211	4238000000-N	907	DISPOSAL OF SIGN, D, E OR F	161 EA		
0212	4241000000-N	907	DISPOSAL OF SIGN, OVERLAY (OVERHEAD)	35 EA		
0213	4242000000-N	907	DISPOSAL OF SIGN, OVERLAY (GROUND MOUNTED)	2 EA		
0214	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	2,368 SF		
0215	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	1,681 SF		
0216	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	529 SF		
0217	4415000000-N	1115	FLASHING ARROW BOARD	8 EA		
0218	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	6 EA		
0219	4430000000-N	1130	DRUMS	645 EA		
0220	4435000000-N	1135	CONES	116 EA		
0221	4445000000-E	1145	BARRICADES (TYPE III)	1,304 LF		
0222	4447000000-E	SP	PEDESTRIAN CHANNELIZING DEVICES	52 LF		
0223	4455000000-N	1150	FLAGGER	1,924 DAY		
0224	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	8 EA		
0225	4480000000-N	1165	TMA	6 EA		
0226	4485000000-E	1170	PORTABLE CONCRETE BARRIER	2,220 LF		
0227	4507000000-E	1170	WATER FILLED BARRIER	2,953 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0228	4508000000-E	SP	REMOVE & RESET WATER FILLED BARRIER	3,100 LF		
0229	4516000000-N	1180	SKINNY DRUM	116 EA		
0230	4589000000-N	SP	GENERIC TRAFFIC CONTROL ITEM PROTECTIVE CANOPY	Lump Sum	L.S.	
0231	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM AUDIBLE WARNING DEVICES	6 EA		
0232	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM TEMPORARY CURB RAMPS	6 EA		
0233	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	1,250 EA		
0234	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	286 LF		
0235	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	1,400 LF		
0236	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	2,718 LF		
0237	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	12 EA		
0238	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	189 EA		
0239	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	4,837 LF		
0240	4805000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (IV)	2 EA		
0241	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	165,469 LF		
0242	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	3,880 LF		
0243	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	162 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0244	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	1,926	LF	
0245	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	16	EA	
0246	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	220	EA	
0247	4847010000-E	1205	POLYUREA PAVEMENT MARKING LINES (4", 20 MILS)	33,314	LF	
0248	4847030000-E	1205	POLYUREA PAVEMENT MARKING LINES (6", 20 MILS)	218,270	LF	
0249	4847050000-E	1205	POLYUREA PAVEMENT MARKING LINES (8", 20 MILS)	1,009	LF	
0250	4847070000-E	1205	POLYUREA PAVEMENT MARKING LINES (12", 20 MILS)	16,334	LF	
0251	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	27,899	LF	
0252	4855000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	12,086	LF	
0253	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	365	LF	
0254	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (12")	2,175	LF	
0255	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	393	LF	
0256	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	39	EA	
0257	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	152	EA	
0258	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	4,154	EA	
0259	5000000000-E	1401	**** HIGH MOUNT STANDARD (60')	2	EA	
0260	5005000000-E	1401	80' HIGH MOUNT STANDARD	12	EA	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0261	5010000000-E	1401	100' HIGH MOUNT STANDARD	5	EA	
0262	5015000000-E	1401	120' HIGH MOUNT STANDARD	11	EA	
0263	5020000000-N	1401	PORTABLE DRIVE UNIT	1	EA	
0264	5025000000-E	SP	HIGH MOUNT FOUNDATIONS	203	CY	
0265	5050000000-N	1404	LIGHT STANDARDS, TYPE MTLT ***** (45' SA, 15' ARM)	2	EA	
0266	5070000000-N	SP	STANDARD FOUNDATION ***** (TYPE R1)	2	EA	
0267	5120000000-N	1407	ELECTRIC SERVICE POLE **** ***** (30' CLASS 4)	5	EA	
0268	5125000000-E	1407	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)	125	LF	
0269	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")	2,315	LF	
0270	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (3")	495	LF	
0271	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (4")	120	LF	
0272	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (2")	240	LF	
0273	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")	765	LF	
0274	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (4")	1,240	LF	
0275	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (6")	105	LF	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0276	5170000000-E	1410	** #8 W/G FEEDER CIRCUIT (2)	2,100 LF		
0277	5175000000-E	1410	** #6 W/G FEEDER CIRCUIT (2)	2,770 LF		
0278	5180000000-E	1410	** #4 W/G FEEDER CIRCUIT (2)	3,215 LF		
0279	5185000000-E	1410	** #2 W/G FEEDER CIRCUIT (2)	220 LF		
0280	5205000000-E	1410	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	4,105 LF		
0281	5210000000-E	1410	** #6 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	7,865 LF		
0282	5215000000-E	1410	** #4 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	9,895 LF		
0283	5220000000-E	1410	** #2 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	1,925 LF		
0284	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (CSJB, 36" X 24")	5 EA		
0285	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (HMJB, 18" X 12")	21 EA		
0286	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (HMJB, 30" X 17")	5 EA		
0287	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (HMJB, 36" X 24")	4 EA		
0288	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (IGJB, 18" X 12")	35 EA		
0289	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (IGJB, 30" X 17")	5 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0290	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (IGJB, 36" X 24")	8 EA		
0291	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (LSJB, 18" X 12")	2 EA		
0292	5252000000-N	1412	UNDERPASS LUMINARIES ***** (TYPE PM, LED, 62W)	10 EA		
0293	5253000000-N	1412	UNDERPASS CIRCUITRY AT ***** LAWNDALE DRIVE, UPL-1	Lump Sum	L.S.	
0294	5270000000-N	SP	GENERIC LIGHTING ITEM 100' HIGH MOUNT LUMINAIRE - LED	30 EA		
0295	5270000000-N	SP	GENERIC LIGHTING ITEM 120' HIGH MOUNT LUMINAIRE - LED	88 EA		
0296	5270000000-N	SP	GENERIC LIGHTING ITEM 240/480V LIGHTING CONTROL SYSTEM	5 EA		
0297	5270000000-N	SP	GENERIC LIGHTING ITEM 60' HIGH MOUNT LUMINAIRE - LED	8 EA		
0298	5270000000-N	SP	GENERIC LIGHTING ITEM 80' HIGH MOUNT LUMINAIRE - LED	96 EA		
0299	5270000000-N	SP	GENERIC LIGHTING ITEM COMMUNICATION GATEWAY	5 EA		
0300	5270000000-N	SP	GENERIC LIGHTING ITEM CONTROL NODE	224 EA		
0301	5270000000-N	SP	GENERIC LIGHTING ITEM ROADWAY LIGHT STANDARD LUMIN- AIRE - 285W LED	2 EA		
0302	5325000000-E	1510	*** WATER LINE (36")	1,215 LF		
0303	5325800000-E	1510	8" WATER LINE	28 LF		
0304	5326200000-E	1510	12" WATER LINE	1,239 LF		



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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0305	5326600000-E	1510	16" WATER LINE	611 LF		
0306	5327000000-E	1510	20" WATER LINE	1,581 LF		
0307	5327400000-E	1510	24" WATER LINE	2,526 LF		
0308	5328000000-E	1510	30" WATER LINE	476 LF		
0309	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	90,010 LB		
0310	5534000000-E	1515	*** VALVE (36")	4 EA		
0311	5540000000-E	1515	6" VALVE	3 EA		
0312	5546000000-E	1515	8" VALVE	1 EA		
0313	5558000000-E	1515	12" VALVE	1 EA		
0314	5558600000-E	1515	16" VALVE	1 EA		
0315	5559000000-E	1515	20" VALVE	3 EA		
0316	5559400000-E	1515	24" VALVE	5 EA		
0317	5560000000-E	1515	30" VALVE	4 EA		
0318	5571600000-E	1515	6" TAPPING SLEEVE & VALVE	6 EA		
0319	5589200000-E	1515	2" AIR RELEASE VALVE	10 EA		
0320	5606800000-E	1515	8" BLOW OFF	2 EA		
0321	5648000000-N	1515	RELOCATE WATER METER	3 EA		
0322	5666000000-N	1515	FIRE HYDRANT	1 EA		
0323	5672000000-N	1515	RELOCATE FIRE HYDRANT	12 EA		
0324	5673000000-E	1515	FIRE HYDRANT LEG	285 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0325	5686500000-E	1515	WATER SERVICE LINE	133 LF		
0326	5691300000-E	1520	8" SANITARY GRAVITY SEWER	4,672 LF		
0327	5691600000-E	1520	16" SANITARY GRAVITY SEWER	826 LF		
0328	5691800000-E	1520	20" SANITARY GRAVITY SEWER	458 LF		
0329	5709700000-E	1520	16" FORCE MAIN SEWER	762 LF		
0330	5768000000-N	1520	SANITARY SEWER CLEAN-OUT	7 EA		
0331	5768500000-E	1520	SEWER SERVICE LINE	253 LF		
0332	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	3,715 LB		
0333	5775000000-E	1525	4' DIA UTILITY MANHOLE	22 EA		
0334	5776000000-E	1525	5' DIA UTILITY MANHOLE	1 EA		
0335	5781000000-E	1525	UTILITY MANHOLE WALL 4' DIA	124 LF		
0336	5782000000-E	1525	UTILITY MANHOLE WALL 5' DIA	5 LF		
0337	5798000000-E	1530	ABANDON *** UTILITY PIPE (21")	470 LF		
0338	5798000000-E	1530	ABANDON *** UTILITY PIPE (36")	723 LF		
0339	5798000000-E	1530	ABANDON *** UTILITY PIPE (8")	2,272 LF		
0340	5810000000-E	1530	ABANDON 16" UTILITY PIPE	1,775 LF		
0341	5812000000-E	1530	ABANDON 20" UTILITY PIPE	1,168 LF		
0342	5813000000-E	1530	ABANDON 24" UTILITY PIPE	1,268 LF		
0343	5814000000-E	1530	ABANDON 30" UTILITY PIPE	370 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0344	5815000000-N	1530	REMOVE WATER METER	5 EA		
0345	5815500000-N	1530	REMOVE FIRE HYDRANT	4 EA		
0346	5816000000-N	1530	ABANDON UTILITY MANHOLE	13 EA		
0347	5828000000-N	1530	REMOVE UTILITY MANHOLE	4 EA		
0348	5835000000-E	1540	*** ENCASEMENT PIPE (48")	640 LF		
0349	5835900000-E	1540	20" ENCASEMENT PIPE	1,460 LF		
0350	5836200000-E	1540	30" ENCASEMENT PIPE	860 LF		
0351	5836400000-E	1540	36" ENCASEMENT PIPE	1,410 LF		
0352	5875000000-N	SP	CONCRETE PIERS	2 EA		
0353	6000000000-E	1605	TEMPORARY SILT FENCE	149,100 LF		
0354	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	5,000 TON		
0355	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	26,965 TON		
0356	6012000000-E	1610	SEDIMENT CONTROL STONE	33,540 TON		
0357	6015000000-E	1615	TEMPORARY MULCHING	576.5 ACR		
0358	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	21,800 LB		
0359	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	110 TON		
0360	6024000000-E	1622	TEMPORARY SLOPE DRAINS	41,440 LF		
0361	6029000000-E	SP	SAFETY FENCE	1,800 LF		
0362	6030000000-E	1630	SILT EXCAVATION	120,570 CY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0363	6036000000-E	1631	MATTING FOR EROSION CONTROL	497,000 SY		
0364	6037000000-E	SP	COIR FIBER MAT	1,800 SY		
0365	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	6,500 SY		
0366	6042000000-E	1632	1/4" HARDWARE CLOTH	17,575 LF		
0367	6045000000-E	SP	*** TEMPORARY PIPE (18")	70 LF		
0368	6045000000-E	SP	*** TEMPORARY PIPE (30")	65 LF		
0369	6046000000-E	1636	TEMPORARY PIPE FOR STREAM CROSSING	200 LF		
0370	6069000000-E	1638	STILLING BASINS	3,875 CY		
0371	6070000000-N	1639	SPECIAL STILLING BASINS	30 EA		
0372	6071012000-E	SP	COIR FIBER WATTLE	20,130 LF		
0373	6071013000-E	SP	WATTLE BARRIER	30,070 LF		
0374	6071020000-E	SP	POLYACRYLAMIDE (PAM)	13,535 LB		
0375	6071030000-E	1640	COIR FIBER BAFFLE	25,310 LF		
0376	6071050000-E	SP	*** SKIMMER (1-1/2")	70 EA		
0377	6071050000-E	SP	*** SKIMMER (2")	16 EA		
0378	6071050000-E	SP	*** SKIMMER (2-1/2")	5 EA		
0379	6071050000-E	SP	*** SKIMMER (3")	2 EA		
0380	6084000000-E	1660	SEEDING & MULCHING	459 ACR		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0381	6087000000-E	1660	MOWING	250	ACR	
0382	6090000000-E	1661	SEED FOR REPAIR SEEDING	5,700	LB	
0383	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	22.5	TON	
0384	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	11,150	LB	
0385	6108000000-E	1665	FERTILIZER TOPDRESSING	334.5	TON	
0386	6111000000-E	SP	IMPERVIOUS DIKE	1,300	LF	
0387	6114500000-N	1667	SPECIALIZED HAND MOWING	200	MHR	
0388	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	150	EA	
0389	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	30	EA	
0390	6120000000-E	SP	CULVERT DIVERSION CHANNEL	8,370	CY	
0391	6123000000-E	1670	REFORESTATION	10	ACR	
0392	6126000000-E	SP	STREAMBANK REFORESTATION	0.61	ACR	
0393	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT	90	EA	
0394	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE	60	EA	
0395	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	22	EA	
0396	7060000000-E	1705	SIGNAL CABLE	9,225	LF	
0397	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	33	EA	
0398	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	3	EA	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0399	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	5 EA		
0400	7252000000-E	1710	MESSENGER CABLE (1/4")	11,865 LF		
0401	7264000000-E	1710	MESSENGER CABLE (3/8")	2,175 LF		
0402	7279000000-E	1715	TRACER WIRE	34,410 LF		
0403	7300000000-E	1715	UNPAVED TRENCHING (***** (1, 2")	3,500 LF		
0404	7300000000-E	1715	UNPAVED TRENCHING (***** (2, 2")	26,950 LF		
0405	7300000000-E	1715	UNPAVED TRENCHING (***** (3, 2")	3,035 LF		
0406	7300100000-E	1715	UNPAVED TRENCHING FOR TEMP- ORARY LEAD-IN	650 LF		
0407	7301000000-E	1715	DIRECTIONAL DRILL (***** (1, 2")	1,580 LF		
0408	7301000000-E	1715	DIRECTIONAL DRILL (***** (2, 2")	2,890 LF		
0409	7301000000-E	1715	DIRECTIONAL DRILL (***** (3, 2")	1,760 LF		
0410	7312000000-N	1716	JUNCTION BOX (***** (SPECIAL SIZE, HEAVY-DUTY)	9 EA		
0411	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	89 EA		
0412	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEA- VY DUTY)	71 EA		
0413	7360000000-N	1720	WOOD POLE	15 EA		
0414	7372000000-N	1721	GUY ASSEMBLY	32 EA		
0415	7384000000-E	1722	**** RISER WITH ***** (1-1/2" RISER W/ WEATHERHEAD)	5 EA		
0416	7420000000-E	1722	2" RISER WITH WEATHERHEAD	5 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0417	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	15 EA		
0418	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	6,375 LF		
0419	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	17,375 LF		
0420	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) (12)	1,700 LF		
0421	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) (144)	36,370 LF		
0422	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) (24)	11,132 LF		
0423	7528000000-E	1730	DROP CABLE	4,500 LF		
0424	7540000000-N	1731	SPLICE ENCLOSURE	16 EA		
0425	7541000000-N	1731	MODIFY SPLICE ENCLOSURE	5 EA		
0426	7552000000-N	1731	INTERCONNECT CENTER	17 EA		
0427	7566000000-N	1733	DELINEATOR MARKER	79 EA		
0428	7575180000-N	1735	CABLE TRANSFER	3 EA		
0429	7576000000-N	SP	METAL STRAIN SIGNAL POLE	16 EA		
0430	7613000000-N	SP	SOIL TEST	16 EA		
0431	7614100000-E	SP	DRILLED PIER FOUNDATION	96 CY		
0432	7636000000-N	1745	SIGN FOR SIGNALS	15 EA		
0433	7642100000-N	1743	TYPE I POST WITH FOUNDATION	1 EA		
0434	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	13 EA		
0435	7684000000-N	1750	SIGNAL CABINET FOUNDATION	4 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0436	7686000000-N	1752	CONDUIT ENTRANCE INTO EXISTING FOUNDATION	2 EA		
0437	7756000000-N	1751	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)	4 EA		
0438	7780000000-N	1751	DETECTOR CARD (TYPE 2070L)	21 EA		
0439	7901000000-N	1753	CABINET BASE EXTENDER	4 EA		
0440	7980000000-N	SP	GENERIC SIGNAL ITEM 10KVA SINGLE PHASE TRANSFORMER	2 EA		
0441	7980000000-N	SP	GENERIC SIGNAL ITEM 5/8" X 10' GROUNDING ELECTRODE	58 EA		
0442	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV CAMERA ASSEMBLY	8 EA		
0443	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV EXTENSION POLE	1 EA		
0444	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV METAL POLE (50')	7 EA		
0445	7980000000-N	SP	GENERIC SIGNAL ITEM CENTRAL MEDIA CONVERTER	1 EA		
0446	7980000000-N	SP	GENERIC SIGNAL ITEM DMS	4 EA		
0447	7980000000-N	SP	GENERIC SIGNAL ITEM DMS ACCESS LADDER	4 EA		
0448	7980000000-N	SP	GENERIC SIGNAL ITEM DMS PEDESTAL STRUCTURE	4 EA		
0449	7980000000-N	SP	GENERIC SIGNAL ITEM EQUIPMENT CABINET DISCONNECT	13 EA		
0450	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	6 EA		
0451	7980000000-N	SP	GENERIC SIGNAL ITEM FIELD EQUIPMENT CABINET	7 EA		



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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0452	7980000000-N	SP	GENERIC SIGNAL ITEM ITS FIELD ETHERNET SWITCH	11 EA		
0453	7980000000-N	SP	GENERIC SIGNAL ITEM ITS SOIL TEST	7 EA		
0454	7980000000-N	SP	GENERIC SIGNAL ITEM METER BASE/DISCONNECT COMBINA- TION PANEL	11 EA		
0455	7980000000-N	SP	GENERIC SIGNAL ITEM TRAVEL TIME DYNAMIC MESSAGE SIGN	2 EA		
0456	7980000000-N	SP	GENERIC SIGNAL ITEM WOOD PEDESTAL	6 EA		
0457	7985000000-N	SP	GENERIC SIGNAL ITEM INTEGRATION AND CONFIGURATION	Lump Sum	L.S.	
0458	7990000000-E	SP	GENERIC SIGNAL ITEM #4 SOLID BARE GROUNDING CONDUCTOR	580 LF		
0459	7990000000-E	SP	GENERIC SIGNAL ITEM 3-WIRE COPPER FEEDER CONDUCTOR	4,880 LF		
0460	7990000000-E	SP	GENERIC SIGNAL ITEM 3-WIRE COPPER SERVICE ENTRANCE CONDUCTOR	150 LF		
0461	7990000000-E	SP	GENERIC SIGNAL ITEM 4-WIRE COPPER FEEDER CONDUCTOR	2,500 LF		
0462	7992000000-E	SP	GENERIC SIGNAL ITEM ITS DRILLED PIER FOUNDATION	49 CY		
0463	7992000000-E	SP	GENERIC SIGNAL ITEM ITS OVERHEAD FOOTINGS	32 CY		
0529	7980000000-N	SP	GENERIC SIGNAL ITEM VIDEO PROCESSING UNIT	1 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>CULVERT ITEMS</b>						
0464	8126000000-N	414	CULVERT EXCAVATION, STA ***** (26+62.00 -Y6RPD-)	Lump Sum	L.S.	
0465	8126000000-N	414	CULVERT EXCAVATION, STA ***** (364+68.00 -L-)	Lump Sum	L.S.	
0466	8126000000-N	414	CULVERT EXCAVATION, STA ***** (382+49.00 -L-)	Lump Sum	L.S.	
0467	8126000000-N	414	CULVERT EXCAVATION, STA ***** (430+93.00 -L-)	Lump Sum	L.S.	
0468	8126000000-N	414	CULVERT EXCAVATION, STA ***** (472+13.00 -L-)	Lump Sum	L.S.	
0469	8126000000-N	414	CULVERT EXCAVATION, STA ***** (493+43.00 -L-)	Lump Sum	L.S.	
0470	8133000000-E	414	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT	4,622 TON		
0471	8196000000-E	420	CLASS A CONCRETE (CULVERT)	7,547.3 CY		
0472	8245000000-E	425	REINFORCING STEEL (CULVERT)	860,503 LB		
<b>WALL ITEMS</b>						
0473	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	1,000 SY		
0474	8802010000-E	SP	SOIL NAIL RETAINING WALLS	1,000 SF		
0475	8802015100-N	SP	SOIL NAIL VERIFICATION TESTS	2 EA		
0476	8802015110-N	SP	SOIL NAIL PROOF TESTS	4 EA		
0477	8846000000-E	SP	GENERIC RETAINING WALL ITEM SELECT MATERIAL CLASS VI	2,300 TON		
0478	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 1A	3,100 SF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0479	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 1B	3,900 SF		
0480	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 2A	4,700 SF		
0481	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 2B	5,200 SF		
0482	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 4A	4,400 SF		
0483	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 4B	4,200 SF		
0484	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 5A	3,600 SF		
0485	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 5B	3,200 SF		
0486	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 6A	4,300 SF		
0487	8847000000-E	SP	GENERIC RETAINING WALL ITEM MSE ABUTMENT WALL NO 6B	4,800 SF		
<b>STRUCTURE ITEMS</b>						
0488	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 17+37.28 -Y16-)	Lump Sum	L.S.	
0489	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 22+29.98 -Y5-)	Lump Sum	L.S.	
0490	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 25+52.71 -Y7-)	Lump Sum	L.S.	
0491	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 28+98.81 -Y4-)	Lump Sum	L.S.	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0492	8105540000-E	411	3'-6" DIA DRILLED PIERS IN SOIL	755.67 LF		
0493	8105640000-E	411	3'-6" DIA DRILLED PIERS NOT IN SOIL	61 LF		
0494	8113000000-N	411	SID INSPECTIONS	16 EA		
0495	8114000000-N	411	SPT TESTING	16 EA		
0496	8115000000-N	411	CSL TESTING	16 EA		
0497	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	101,695 SF		
0498	8161000000-E	420	GROOVING BRIDGE FLOORS	114,482 SF		
0499	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	2,528.1 CY		
0500	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (17+37.28 -Y16-)	Lump Sum	L.S.	
0501	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (22+29.98 -Y5-)	Lump Sum	L.S.	
0502	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (25+52.71 -Y7-)	Lump Sum	L.S.	
0503	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (28+98.81 -Y4-)	Lump Sum	L.S.	
0504	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (329+95.42 -L- LT)	Lump Sum	L.S.	
0505	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (329+95.42 -L- RT)	Lump Sum	L.S.	
0506	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (337+20.09 -L- LT)	Lump Sum	L.S.	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0507	821000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (337+20.09 -L- RT)	Lump Sum	L.S.	
0508	821000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (470+43.12 -L- LT)	Lump Sum	L.S.	
0509	821000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (470+43.12 -L- RT)	Lump Sum	L.S.	
0510	821700000-E	425	REINFORCING STEEL (BRIDGE)	402,108 LB		
0511	823800000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	36,361 LB		
0512	826200000-E	430	45" PRESTRESSED CONCRETE GIR- DERS	2,637.26 LF		
0513	826500000-E	430	54" PRESTRESSED CONCRETE GIR- DERS	2,382.26 LF		
0514	827400000-E	430	MODIFIED 63" PRESTRESSED CONC GIRDERS	5,702.38 LF		
0515	832820000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	178 EA		
0516	836400000-E	450	HP12X53 STEEL PILES	7,660 LF		
0517	839100000-N	450	STEEL PILE POINTS	72 EA		
0518	839250000-E	450	PREDRILLING FOR PILES	90 LF		
0519	848200000-E	460	THREE BAR METAL RAIL	460.49 LF		
0520	850300000-E	460	CONCRETE BARRIER RAIL	1,787.02 LF		
0521	850500000-E	460	VERTICAL CONCRETE BARRIER RAIL	1,199.5 LF		
0522	853100000-E	462	4" SLOPE PROTECTION	4,169 SY		
0523	865700000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	

County : Gullford

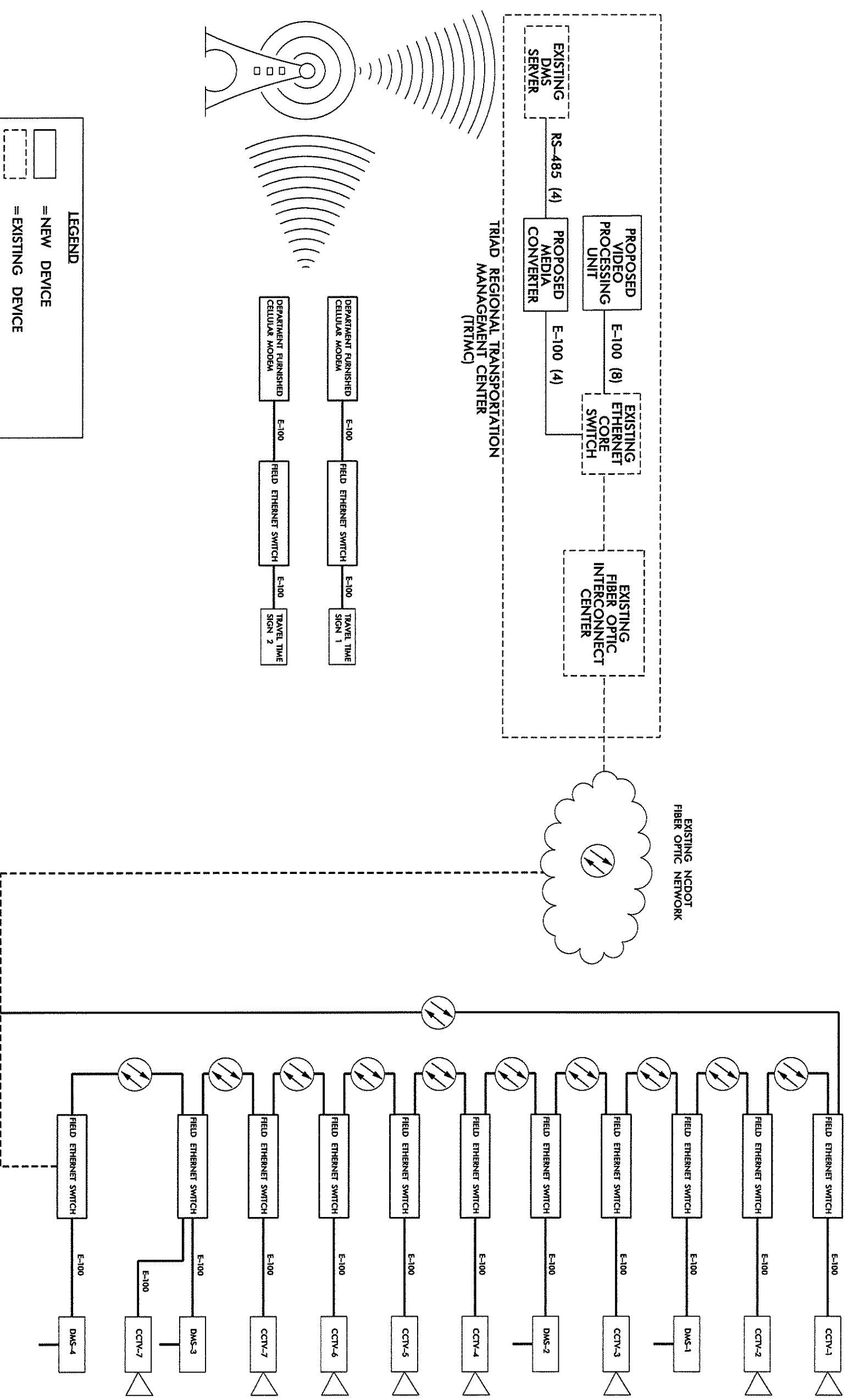
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0524	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	
0525	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum	L.S.	
0526	8727000000-N	SP	ELECTRICAL CONDUIT SYSTEM FOR SIGNALS AT STA***** (337+20.09 -L-)	Lump Sum	L.S.	
0527	8892000000-E	SP	GENERIC STRUCTURE ITEM TEMPORARY SHORING FOR MSE WALL CONSTRUCTION	4,272 SF		
0528	8990000000-N	SP	CONTRACT TIME	10,000 DOL		
0931/Mar08/Q12014425.747/D2454317785210/E529			<b>Total Amount Of Bid For Entire Project :</b>			











**LEGEND**

- = NEW DEVICE
- = EXISTING DEVICE
- = NEW COMMUNICATIONS
- = EXISTING COMMUNICATIONS
- = ETHERNET
- = FIBER OPTIC CABLE
- = CELLULAR NETWORK

Prepared in the Office of

**SYSTEM BLOCK DIAGRAM**

DIVISION 07 GUILFORD CO. GREENSBORO

PLW DATE: NOVEMBER 2017  
 PREPARED BY: S. A. GREEN  
 REVIEWED BY: P. P. HARRIS, PE  
 M.A.A. ASLAM, PE

REVISIONS: \_\_\_\_\_

DATE: 11/29/2018

0 SCALE  
 A/B

SEAL  
 PROFESSIONAL SEAL  
 031636  
 DATE: 11/29/2018