



PAT McCRORY  
*Governor*

NICHOLAS J. TENNYSON  
*Secretary*

October 6, 2015

NOTICE TO: All Prequalified Contractors

FROM: R. A. Garris, PE  
State Contract Officer

SUBJECT: Raleigh Central Highway Letting

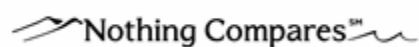
The Highway Letting broadcast of bid opening has changed to a new format. The new method is broadcast via LiveStream. This can be accessed by clicking on the link below or by using the following manual process.

Go to [Raleigh Central Letting](#) and click on "Live Now" which will be available 15 minutes prior to Letting.

Manual process:

Go to [www.livestream.com](http://www.livestream.com), click on the "Watch" button and then type NCDOT Raleigh Central Letting into the search events window. Select the Raleigh Central Letting event for the desired date. Click "Live Now" to listen to the audio after the event has started.

If you have any questions, please do not hesitate to contact me at (919) 707-6900.





PAT McCRORY  
*Governor*

NICHOLAS J. TENNYSON  
*Secretary*

January 19, 2016

NOTICE TO: All Prequalified Contractors()  
FROM: R. A. Garris, PE  
State Contract Officer  
SUBJECT: Asbestos Inspection Prior to Bridge Demolition

Effective with the February 16, 2016 letting, a new project special provision entitled *Asbestos Assessment for Bridge Demolition and Renovation* will be included in any contract containing a structure removal line item. A contract line item for payment of this work will also be included in the contract.

The United States Environmental Protection Agency (EPA) has provided clarification of the asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation as it applies to bridges, identifying them as regulated structures. As such, a thorough inspection is required for the presence of asbestos.

If you have any questions, please do not hesitate to contact me at (919) 707-6900.

**Nothing Compares**




PAT McCRORY  
Governor

NICHOLAS J. TENNYSON  
Secretary

November 22, 2016

NOTICE TO: All Prequalified Contractors

FROM: R.A. Garris, PE  
State Contract Officer

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SUBJECT: Division MBE and WBE Banking

Effective with the January 2017 Division lettings, the *Minority Business Enterprise and Women Business Enterprise (Division)* special provision (SP1 G67) will include an option for banking of MBE and WBE participation.

Banking has typically been a practice that applies to central-let state-funded projects only. However, for the time period of January 1, 2017 through September 30, 2017, the Department will allow the practice of banking to be applied to Division-let state-funded projects of any size as a pilot.

The use of banking will be monitored by the Office of Civil Rights and will be evaluated based on the following:

- MBE and WBE utilization
- Number of times banking deposits are made
- Number of times banking withdrawals are made
- Number of times a bidder falls short of the advertised goal(s) and submits a Good Faith Effort
- The impact of banking on MBE and WBE firms

After the evaluation of the pilot, a report will be presented to the Office of the Secretary to determine if banking on Division contracts should continue. The Office of Civil Rights invites comments from the contracting community, MBEs and WBEs throughout the duration of the pilot. All written comments received prior to September 30, 2017 will be included in the report. Comments may be sent to [dbe@ncdot.gov](mailto:dbe@ncdot.gov) with the subject line "Banking Pilot".



**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
INVITATION TO BID**

ELECTRONIC BIDS (UNLESS OTHERWISE SPECIFIED IN THE PROJECT SPECIAL PROVISION) FOR THE CONSTRUCTION OF THE FOLLOWING PROJECTS WILL BE PUBLICLY READ IN ROOM 156-A/B, THE CONTRACT STANDARDS AND DEVELOPMENT UNIT LARGE CONFERENCE ROOM, LOCATED IN BUILDING B AT 1020 BIRCH RIDGE DRIVE, RALEIGH, N.C. AT **2:00 PM** ON APRIL 18, 2017. NO ELECTRONIC BIDS WILL BE RECEIVED AFTER 2.00 PM.

1. THE BIDDER SHALL PURCHASE A PROPOSAL FOR EACH PROJECT FOR WHICH HE INTENDS TO SUBMIT ABID IN RESPONSE TO THIS INVITATION TO BID.

2. A BID BOND OR BID DEPOSIT IN THE AMOUNT OF 5% OF THE TOTAL AMOUNT BID WILL BE REQUIRED. THE BIDDER SHALL SUBMIT AN ELECTRONIC BID BOND WITH EACH ELECTRONIC BID SUBMITTAL UNLESS HE ELECTS TO FURNISH A BID DEPOSIT.

3. UPON RECEIPT OF AWARD LETTER, THE SUCCESSFUL BIDDER SHALL FURNISH A PROPERLY EXECUTED EXECUTION OF CONTRACT, NON-COLLUSION AFFIDAVIT AND DEBARMENT CERTIFICATION, AND EXECUTED PAYMENT AND PERFORMANCE BONDS FOR EACH CONTRACT. AFFIDAVIT FORMS AND BOND FORMS ARE AVAILABLE AS PART OF THE CONTRACT EXECUTION FORMS AT THE FOLLOWING WEBSITE  
<https://connect.ncdot.gov/letting/Pages/>.

ALL QUESTIONS RELATED TO PROJECTS DURING THE ADVERTISEMENT PERIOD SHALL BE ADDRESSED TO THE STATE CONTRACT OFFICER AT 919-707-6900.

THE MINIMUM WAGE FOR LABOR WILL BE SHOWN IN THE PROPOSAL FORM FOR FEDERAL AID PROJECTS.

**CONTRACTOR'S LICENSE:** A GENERAL CONTRACTOR'S LICENSE IS REQUIRED IN ORDER TO SUBMIT A BID ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000.00 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. FOR ADDITIONAL INFORMATION OR TO MAKE APPLICATION FOR A LICENSE, APPLY TO THE EXECUTIVE SECRETARY OF THE CONTRACTOR LICENSING BOARD, P.O. BOX 17187, RALEIGH, NC 27619, (919-571-4183).

**PREQUALIFYING TO BID:** ALL PROSPECTIVE BIDDERS SHALL BE PREQUALIFIED WITH THE DEPARTMENT OF TRANSPORTATION PRIOR TO SUBMITTING A BID. CONTRACTORS WHO ARE NOT PREQUALIFIED MAY OBTAIN INFORMATION AND FORMS FOR PREQUALIFYING FROM THE CONTRACTUAL SERVICES UNIT, DIVISION OF HIGHWAYS, DEPARTMENT OF TRANSPORTATION, 1509 MAIL SERVICE CENTER, RALEIGH, N. C., . ALL REQUIRED PREQUALIFICATION STATEMENTS AND DOCUMENTS SHALL BE FILED WITH THE CONTRACTUAL SERVICES UNIT AT LEAST FOUR WEEKS PRIOR TO THE DATE OF OPENING BIDS.

THE DEPARTMENT OF TRANSPORTATION HEREBY NOTIFIES ALL BIDDERS THAT IT WILL AFFIRMATIVELY INSURE THAT IN ANY CONTRACT ENTERED INTO PURSUANT TO THIS INVITATION TO BID, MINORITY BUSINESS ENTERPRISES WILL BE AFFORDED FULL OPPORTUNITY TO SUBMIT BIDS IN RESPONSE TO THIS INVITATION AND WILL NOT BE DISCRIMINATED AGAINST ON THE GROUNDS OF RACE, COLOR, SEX, OR NATIONAL ORIGIN IN COMPENSATION TO THIS AWARD.

PROPOSAL FORMS AT **\$25.00** EACH, PLANS (SMALL SIZE) AT **\$40.00** PER SET, PLANS (LARGE SIZE) AT **\$100.00** PER SET, AND CROSS-SECTIONS AT **\$40.00** PER SET, PLUS SALES TAX FOR N.C. RESIDENTS, MAY BE OBTAINED BY TELEPHONING (919-707-6925), FAXING (919-250-4127), OR WRITING TO: PLANS AND PROPOSALS, CONTRACT STANDARDS AND DEVELOPMENT UNIT, DEPARTMENT OF TRANSPORTATION, 1591 MAIL SERVICE CENTER, RALEIGH, N.C., 27699-1591. THESE CHARGES ARE NOT DEPOSITS AND WILL NOT BE REFUNDED. ALL ORDERS FOR PROPOSAL FORMS, PLANS AND CROSS-SECTIONS DELIVERED IN NORTH CAROLINA ARE SUBJECT TO 6.75% SALES TAX. ORDERS MAILED TO OUT OF STATE CONTRACTORS ARE NOT SUBJECT TO SALES TAX. MAKE ALL CHECKS PAYABLE TO THE "N.C. DEPARTMENT OF TRANSPORTATION".

THE RIGHT IS RESERVED TO REJECT ANY OR ALL BIDS.

**TODAY'S DATE IS MARCH 21, 2017.  
BY ORDER OF THE DEPARTMENT OF TRANSPORTATION  
(THE WORK WILL CONSIST APPROXIMATELY AS SHOWN ON THE FOLLOWING SHEETS)**

(Revised on 14Jul2011)

## **REVIEW OF PLANS AND PROPOSALS IN DIVISION OFFICE**

IN ORDER TO FACILITATE AND ENCOURAGE THE INVOLVEMENT OF MINORITY BUSINESS ENTERPRISES IN THE HIGHWAY CONSTRUCTION PROCESS, IT IS THE POLICY OF THE DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, THAT A SET OF PLANS AND PROPOSAL FOR EACH PROJECT TO BE LET WILL BE MAINTAINED FOR REVIEW BY ANY CONTRACTOR INTERESTED IN BIDDING UPON OR QUOTING WORK IN AN ADVERTISED PROJECT.

THE PROPOSALS AND PLANS WILL BE AVAILABLE FOR REVIEW BEGINNING TWO WEEKS PRIOR TO THE DATE OF BID OPENING IN THE DIVISION OFFICE WHICH WILL ADMINISTER THE CONTRACT. THE DEPARTMENT WILL, UPON REQUEST, MAKE AVAILABLE FROM ITS STAFF A PERSON TO EXPLAIN THE PROPOSED PROJECT AND TO ANSWER GENERAL QUESTIONS RELATING TO THE PROJECT. THE PLANS AND PROPOSALS CAN BE REVIEWED ANY TIME MONDAY THRU FRIDAY, EXCLUDING HOLIDAYS, BETWEEN THE HOURS OF 8:00 A.M. AND 4:30 P.M. IN THE DIVISION OFFICE. IN ORDER TO HAVE A MEMBER OF THE STAFF EXPLAIN THE PROJECT AND/OR ANSWER GENERAL QUESTIONS PERTAINING TO THE PROJECT, PRIOR APPOINTMENTS MUST BE MADE BY CALLING THE APPROPRIATE DIVISION OFFICE.

FOLLOWING ARE THE LOCATIONS AND TELEPHONE NUMBERS OF THE OFFICES IN WHICH THE PLANS AND PROPOSALS WILL BE MADE AVAILABLE, REFERENCE SHOULD BE MADE TO THE SHEETS CONTAINING THE INDIVIDUAL PROJECT QUANTITIES TO DETERMINE WHICH DIVISION OFFICE WILL ADMINISTER THE CONTRACT.

<b><u>DIV NO.</u></b>	<b><u>DIVISION ENGINEER</u></b>	<b><u>LOCATION</u></b>	<b><u>TOWN</u></b>	<b><u>TELEPHONE</u></b>
00001	Jerry Jennings, PE	113 AIRPORT DRIVE, SUITE 100	EDENTON	(252) 482-1850
00002	John W Rouse, PE	PO BOX 1587	GREENVILLE	(252) 439-2800
00003	Karen Eason Collette, PE	5501 BARBADOS BLVD	CASTLE HAYNE	(910) 341-2000
00004	Timothy M Little, PE	PO BOX 3165	WILSON	(252) 237-6164
00005	Joseph R Hopkins, PE	2612 NORTH DUKE STREET	DURHAM	(919) 220-4600
00006	Gregory W Burns, PE	PO BOX 1150	FAYETTEVILLE	(910) 486-1493
00007	James M Mills, PE	PO BOX 14996	GREENSBORO	(336) 487-0000
00008	Brandon H Jones, PE	902 N. SANDHILLS BLVD.	ABERDEEN	(910) 944-2344
00009	S. Pat Ivey, PE	375 SILAS CREEK PARKWAY	WINSTON-SALEM	(336) 747-7800
00010	Louis L Mitchell, PE	716 WEST MAIN STREET	ALBEMARLE	(704) 983-4400
00011	Michael A Pettyjohn, PE	PO BOX 250	NORTH WILKESBORO	(336) 903-9101
00012	Mark E Stafford, PE	PO BOX 47	SHELBY	(704) 480-5400
00013	Jay J Swain, PE	PO BOX 3279	ASHEVILLE	(828) 251-6171
00014	Ed Green, PE	253 WEBSTER ROAD	SYLVA	(828) 586-2141

===== SUMMARY OF PROPOSALS =====

**Bid Letting Number** L170418

<b>RPN</b>	<b>Contract Id</b>	<b>WBS</b>	<b>County</b>	<b>Length</b>	<b>JobType</b>
*001	C203925	46483.3.1 ETC.	CARTERET	1.610 MI	BRIDGE REHABILITATION
002	C203902	42342.3.1	GRANVILLE	0.170 MI	GRADING, DRAINAGE, PAVING, AND STRUCTURE.
003	C203788	50092.3.1	UNION	2.471 MI	GRADING, DRAINAGE, PAVING, SIGNALS, AND RETAINING WALL.
004	C204008	2017CPT.12.18.10231 ETC.	CLEVELAND	31.830 MI	WIDENING, MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.
005	C203800	34522.3.5	CATAWBA	8.045 MI	WIDENING, GRADING, DRAINAGE, PAVING, AND CULVERTS.
006	C203846	41153.3.1	GASTON	0.644 MI	GRADING, DRAINAGE, PAVING, LIGHTING, SIGNALS, AND CULVERTS.
007	C203953	39079.3.4	BUNCOMBE	80.000 MI	ITS.

**PLEASE NOTE:**

\*C203925, CARTERET COUNTY, B-5938 & B-5939, 46483.3.1 HAS A MANDATORY PRE-BID CONFERENCE AT 10:00AM ON THURSDAY, APRIL 6TH AT THE CHEIF ENGINEER'S CONFERENCE ROOM, NCDOT EQUIPMENT AND MAINTENANCE FACILITY, 4809 BERYL RD, RALEIGH, NC 27606, (919) 733-2220. CONTRACTORS PLEASE USE VISITOR ENTRANCE AT FRONT OF BUILDING FOR ACCESS.

PLEASE VERIFY THE VERSION OF EXPEDITE IS 5.11A-1. IF AN UPGRADE IS NEEDED, THE SOFTWARE IS AVAILABLE AT NCDOT.GOV OR BIDX.COM.

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L170418 001

CONTRACT ID : C203925 46483.3.1

DIV OFFICE GREENVILLE

LENGTH = 1.610 MI

COUNTY : CARTERET

BRIDGE REHABILITATION

WBE GOAL 1.0% COMPLETION DATE : NOV 30

2020 BRIDGE #68 OVER BOGUE SOUND ON SR-1182 (ATLANTIC BEACH CAUSEWAY), AND BRIDGE #6 OVER BOGUE SOUND ON NC-58.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
455.4	SY	INCIDENTAL MILLING
38.3	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
2.3	TON	ASPHALT BINDER FOR PLANT MIX
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
912.5	LF	REMOVE & RESET EXISTING GUARDRAIL
298	SF	WORK ZONE SIGNS (STATIONARY)
378	SF	WORK ZONE SIGNS (PORTABLE)
124	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
2	EA	FLASHING ARROW BOARD
3	EA	PORTABLE CHANGEABLE MESSAGE SIGN
42	DAY	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)
289	EA	DRUMS
20	EA	CONES
184	LF	BARRICADES (TYPE III)
100	DAY	FLAGGER
2	EA	TMA
64	HR	LAW ENFORCEMENT
105	EA	SKINNY DRUM
95	EA	TUBULAR MARKERS (FIXED)
115	EA	TEMPORARY RAISED PAVEMENT MARKERS
100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
1,426	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
1,835	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)
47,865	LF	PAINT PAVEMENT MARKING LINES (4")
870	LF	PAINT PAVEMENT MARKING LINES (8")
17,345	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
356	LF	POLYUREA PAVEMENT MARKING LINES (8", *****) (HIGHLY REFLECTIVE ELEMENTS)
28,198	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
340	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
165	EA	PERMANENT RAISED PAVEMENT MARKERS
15	EA	SNOWPLOWABLE PAVEMENT MARKERS

STRUCTURE ITEMS

218,738	SF	GROOVING BRIDGE FLOORS
Lump Sum	LS	POLLUTION CONTROL
17.6	SY	CLASS II SURFACE PREPARATION
951.3	CF	SHOTCRETE REPAIRS
1,015	LF	EPOXY RESIN INJECTION
Lump Sum	LS	GENERIC STRUCTURE ITEM MOOREHEAD CITY LIGHTING SYSTEM
Lump Sum	LS	GENERIC STRUCTURE ITEM PAINTING CONTAINMENT
Lump Sum	LS	GENERIC STRUCTURE ITEM REMOVAL OF EXISTING FENDER SYSTEM
4,032	LF	GENERIC STRUCTURE ITEM 10" X 10" COMPOSITE LUMBER
10,440	LF	GENERIC STRUCTURE ITEM 14" COMPOSITE PILES
1,045.3	LF	GENERIC STRUCTURE ITEM 2" X 12" PLASTIC LUMBER

1,792	LF	GENERIC STRUCTURE ITEM 2" X 6" PLASTIC LUMBER
336	LF	GENERIC STRUCTURE ITEM 4" X 6" PLASTIC LUMBER
448	LF	GENERIC STRUCTURE ITEM 6" X 10" PLASTIC LUMBER
280.3	LF	GENERIC STRUCTURE ITEM BRIDGE JOINT REMOVAL
26	LF	GENERIC STRUCTURE ITEM CPJACKET (MONITORING)
965	LF	GENERIC STRUCTURE ITEM CPJACKET (NON MONITORING)
480	LF	GENERIC STRUCTURE ITEM PILE ENCAPSULATION
280.3	LF	GENERIC STRUCTURE ITEM SILICONE JOINT SEALANT
9,190.6	LF	GENERIC STRUCTURE ITEM TWO BAR METAL RAIL
3,680	LF	GENERIC STRUCTURE ITEM WIRE ROPE FOR FENDER SYSTEM
714.2	CY	GENERIC STRUCTURE ITEM PPC MATERIALS
1,100.5	CF	GENERIC STRUCTURE ITEM PRESTRESSED CONCRETE GIRDER REPAIR
24,302	LB	GENERIC STRUCTURE ITEM HARDWARE
18,428.6	SF	GENERIC STRUCTURE ITEM EPOXY COATING
511	SF	GENERIC STRUCTURE ITEM FRP STRENGTHENING SYSTEM
773.8	SF	GENERIC STRUCTURE ITEM TSA, FULL LENGTH (MONITORING)
45,717.8	SF	GENERIC STRUCTURE ITEM TSA, FULL LENGTH (NON MONITORING)
602.7	SF	GENERIC STRUCTURE ITEM TSA, PARTIAL LENGTH (MONITORING)
32,398.7	SF	GENERIC STRUCTURE ITEM TSA, PARTIAL LENGTH (NON MONITORING)
25,722	SY	GENERIC STRUCTURE ITEM PLACING AND FINISHING PPC OVERLAY
25,722	SY	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK
25,722	SY	GENERIC STRUCTURE ITEM SHOTBLASTING BRIDGE DECK
15	EA	GENERIC STRUCTURE ITEM ALTERNATE OUTRIGGER MOUNTING
3	EA	GENERIC STRUCTURE ITEM BRIDGE JACKING
2	EA	GENERIC STRUCTURE ITEM BRIDGE JACKING FOR SPAN RE-POSITIONING
15	EA	GENERIC STRUCTURE ITEM BRIDGE LIGHT STANDARDS
156	EA	GENERIC STRUCTURE ITEM BULK ANODE
590	EA	GENERIC STRUCTURE ITEM CLEANING AND PAINTING OF EXISTING BEARINGS WITH HRCSA
6	EA	GENERIC STRUCTURE ITEM MAINLAND LIGHT STANDARDS
5	EA	GENERIC STRUCTURE ITEM REMOVE LIGHT STANDARD FROM FOUNDATION
6	EA	GENERIC STRUCTURE ITEM REMOVE LIGHT STANDARD FOUNDATION
15	EA	GENERIC STRUCTURE ITEM REMOVE LIGHT STANDARD FROM OUTRIGGER
10	EA	GENERIC STRUCTURE ITEM REPLACEMENT OF BRIDGE BEARINGS, TYPE (P2)
10	EA	GENERIC STRUCTURE ITEM REPLACEMENT OF BRIDGE BEARINGS, TYPE (P3)



- 8 EA GENERIC STRUCTURE ITEM  
REPLACEMENT OF BRIDGE  
BEARINGS, TYPE (P1)
- 3 EA GENERIC STRUCTURE ITEM  
RESET BEARINGS
- 21 EA GENERIC STRUCTURE ITEM  
ROADWAY LIGHT STANDARD  
LUMINAIRE-220W LED
- 2 EA GENERIC STRUCTURE ITEM  
SPAN RE-POSITIONING
- 40 EA GENERIC STRUCTURE ITEM  
SPLICING OF PRESTRESSING  
STRAND
- 4 EA GENERIC STRUCTURE ITEM  
STANDARD FOUNDATION, TYPE R1
- 2 EA GENERIC STRUCTURE ITEM  
STANDARD FOUNDATION, TYPE R2

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L170418 002

CONTRACT ID : C203902 42342.3.1

DIV OFFICE DURHAM

LENGTH = 0.170 MI

COUNTY : GRANVILLE

GRADING, DRAINAGE, PAVING, AND STRUCTURE.

MBE GOAL 2.0% WBE 3.0% COMPLETION DATE : MAY 16 2018

BRIDGE #138 OVER GRASSY CREEK ON SR-1300.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	CONSTRUCTION SURVEYING
Lump Sum	LS	BRIDGE APPROACH FILL - SUB REGIONAL TIER, STATION ***** (16+34.00 -L-)
Lump Sum	LS	GRADING
1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
200	CY	UNDERCUT EXCAVATION
40	CY	DRAINAGE DITCH EXCAVATION
240	LF	BERM DITCH CONSTRUCTION
200	CY	SELECT GRANULAR MATERIAL
200	SY	GEOTEXTILE FOR SOIL STABILIZATION
10	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
30	SY	FOUNDATION CONDITIONING GEOTEXTILE
60	LF	15" DRAINAGE PIPE
4	EA	*** DRAINAGE PIPE ELBOWS (15")
20	LF	15" CS PIPE CULVERTS, 0.064" THICK
100	TON	INCIDENTAL STONE BASE
580	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
590	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
260	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
75	TON	ASPHALT BINDER FOR PLANT MIX
8	EA	RIGHT OF WAY MARKERS
2	EA	MASONRY DRAINAGE STRUCTURES
2	EA	FRAME WITH TWO GRATES, STD 840.29
30	LF	SHOULDER BERM GUTTER
75	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
265	LF	REMOVE EXISTING GUARDRAIL
130	TON	RIP RAP, CLASS I
250	TON	RIP RAP, CLASS II
420	TON	RIP RAP, CLASS B
2,145	SY	GEOTEXTILE FOR DRAINAGE
6	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
465	SF	WORK ZONE SIGNS (STATIONARY)
144	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
28	DAY	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)
6	EA	DRUMS
96	LF	BARRICADES (TYPE III)
2,052	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
1,100	LF	TEMPORARY SILT FENCE
110	TON	STONE FOR EROSION CONTROL, CLASS A
215	TON	STONE FOR EROSION CONTROL, CLASS B
125	TON	SEDIMENT CONTROL STONE
1	ACR	TEMPORARY MULCHING
100	LB	SEED FOR TEMPORARY SEEDING
0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
200	LF	TEMPORARY SLOPE DRAINS
200	LF	SAFETY FENCE
110	CY	SILT EXCAVATION
2,000	SY	MATTING FOR EROSION CONTROL
50	SY	COIR FIBER MAT

125	LF	1/4" HARDWARE CLOTH
2	EA	SPECIAL STILLING BASINS
60	LB	POLYACRYLAMIDE (PAM)
1	ACR	SEEDING & MULCHING
0.5	ACR	MOWING
50	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
50	LB	SEED FOR SUPPLEMENTAL SEEDING
0.75	TON	FERTILIZER TOPDRESSING
10	MHR	SPECIALIZED HAND MOWING
13	EA	RESPONSE FOR EROSION CONTROL
3	EA	GENERIC EROSION CONTROL ITEM CONCRETE WASHOUT STRUCTURE

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (16+34.00 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (16+34.00 -L-)
32.3	LF	3'-0" DIA DRILLED PIERS IN SOIL
16	LF	3'-0" DIA DRILLED PIERS NOT IN SOIL
32	LF	PERMANENT STEEL CASING FOR 3'-0" DIA DRILLED PIER
1	EA	SID INSPECTIONS
1	EA	CSL TESTING
Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (16+34.00 -L-)
64.3	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (16+34.00 -L-)
15,424	LB	REINFORCING STEEL (BRIDGE)
1,630	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
245	LF	HP12X53 STEEL PILES
14	EA	STEEL PILE POINTS
240.5	LF	VERTICAL CONCRETE BARRIER RAIL
540	TON	RIP RAP CLASS II (2'-0" THICK)
600	SY	GEOTEXTILE FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS (16+34.00 -L-)
605	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS
715	LF	3'-0" X 2'-0" PRESTRESSED CONC CORED SLABS
Lump Sum	LS	GENERIC STRUCTURE ITEM ASBESTOS ASSESSMENT

## FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L170418 003

CONTRACT ID : C203788 50092.3.1

DIV OFFICE ALBEMARLE

LENGTH = 2.471 MI

COUNTY : UNION

GRADING, DRAINAGE, PAVING, SIGNALS, AND RETAINING WALL.

DBE GOAL 10.0% COMPLETION DATE : APR 30 2019

US-74 FROM 1100 FEET WEST OF INDIAN TRAIL-FAIRVIEW ROAD TO 1200 FEET EAST OF SARDIS CHURCH ROAD.

ROADWAY ITEMS				
			9.6	CY MASONRY DRAINAGE STRUCTURES
			15.7	LF MASONRY DRAINAGE STRUCTURES
			73	EA FRAME WITH TWO GRATES, STD 840.16
			2	EA FRAME WITH TWO GRATES, STD 840.20
			19	EA FRAME WITH TWO GRATES, STD 840.22
			18	EA FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
			16	EA FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
			12	EA FRAME WITH COVER, STD 840.54
			71	EA CONCRETE TRANSITIONAL SECTION FOR DROP INLET
			280	LF 1'-6" CONCRETE CURB & GUTTER
			6,780	LF 2'-6" CONCRETE CURB & GUTTER
			450	SY 4" CONCRETE SIDEWALK
			8	EA CONCRETE CURB RAMP
			1,910	SY 4" CONCRETE ISLAND COVER
			420	SY 5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)
			3,160	SY 5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
			3	SY *** MONOLITHIC CONCRETE MEDIAN (*****) (7", KEYED IN)
			4	EA GENERIC PAVING ITEM EMERGENCY VEHICLE ACCESS
			2	EA ADJUSTMENT OF DROP INLETS
			1	EA CONVERT EXISTING DROP INLET TO JUNCTION BOX
			4	EA CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE
			150	LF STEEL BM GUARDRAIL
			50	LF STEEL BM GUARDRAIL, SHOP CURVED
			2	EA GUARDRAIL ANCHOR UNITS, TYPE CAT-1
			5	EA GENERIC GUARDRAIL ITEM EXTRA LENGTH GUARDRAIL POSTS (8" STEEL)
			30	TON RIP RAP, CLASS I
			60	TON RIP RAP, CLASS II
			25	TON RIP RAP, CLASS B
			215	SY GEOTEXTILE FOR DRAINAGE
			3,221	LF SUPPORTS, 3-LB STEEL U-CHANNEL
			158	EA SIGN ERECTION, TYPE E
			23	EA SIGN ERECTION, TYPE F
			9	EA SIGN ERECTION, TYPE *** (OVER-HEAD) (B)
			1	EA SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (D)
			44	EA DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			1	EA DISPOSAL OF SUPPORT, U-CHANNEL
			444	SF WORK ZONE SIGNS (STATIONARY)
			70	SF WORK ZONE SIGNS (BARRICADE MOUNTED)
			7	EA PORTABLE CHANGEABLE MESSAGE SIGN
			1,170	EA DRUMS
			92	LF BARRICADES (TYPE III)
			2	EA TEMPORARY CRASH CUSHIONS
			670	LF PORTABLE CONCRETE BARRIER (ANCHORED)
			96	HR LAW ENFORCEMENT
			345	EA TEMPORARY RAISED PAVEMENT MARKERS
			48,785	LF THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
			18,260	LF THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
			9,701	LF THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
Lump Sum	LS	MOBILIZATION		
Lump Sum	LS	CONSTRUCTION SURVEYING		
Lump Sum	LS	GRADING		
1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING		
2,017	CY	UNDERCUT EXCAVATION		
120	CY	DRAINAGE DITCH EXCAVATION		
400	SY	GEOTEXTILE FOR SOIL STABILIZATION		
576	SF	TEMPORARY SHORING		
960	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES		
2,970	SY	FOUNDATION CONDITIONING GEOTEXTILE		
442	LF	15" SIDE DRAIN PIPE		
40	LF	18" SIDE DRAIN PIPE		
540	LF	15" RC PIPE CULVERTS, CLASS III		
32	LF	30" RC PIPE CULVERTS, CLASS III		
440	LF	36" RC PIPE CULVERTS, CLASS III		
6,004	LF	15" RC PIPE CULVERTS, CLASS IV		
688	LF	18" RC PIPE CULVERTS, CLASS IV		
8	LF	30" RC PIPE CULVERTS, CLASS IV		
110	LF	*** CS PIPE CULVERTS, ***** THICK (15", 0.064")		
6	EA	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")		
43	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (15", 0.250")		
32	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (18", 0.250")		
68	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (42", 0.625")		
43	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (15", 0.250")		
32	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (18", 0.250")		
68	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (42", 0.625")		
2,251	LF	PIPE REMOVAL		
200	CY	SHALLOW UNDERCUT		
300	TON	CLASS IV SUBGRADE STABILIZATION		
1,000	TON	INCIDENTAL STONE BASE		
12,030	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")		
4,166	SY	INCIDENTAL MILLING		
16,300	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C		
6,670	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C		
14,860	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C		
60	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A		
1,920	TON	ASPHALT BINDER FOR PLANT MIX		
670	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR		
25,000	SY	GENERIC PAVING ITEM VARIABLE DEPTH MILLING		
7.204	CY	ENDWALLS		
2.604	CY	PIPE COLLARS		
0.045	CY	PIPE PLUGS		
23	CY	FLOWABLE FILL		
135	EA	MASONRY DRAINAGE STRUCTURES		

	200	LF	UNPAVED TRENCHING (***** (2, 2"))
	570	LF	UNPAVED TRENCHING (***** (3, 2"))
4,223	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	
1,007	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	
2,892	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	
110	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	
307	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	
550	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)	
2	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (II)	
26,347	LF	PAINT PAVEMENT MARKING LINES (4")	
5,188	LF	PAINT PAVEMENT MARKING LINES (8")	
643	LF	PAINT PAVEMENT MARKING LINES (24")	
24	EA	PAINT PAVEMENT MARKING CHARAC- TER	
91	EA	PAINT PAVEMENT MARKING SYMBOL	
6	EA	GENERIC PAVEMENT MARKING ITEM IN LANE ROUTE SHIELDS	
1,530	EA	PERMANENT RAISED PAVEMENT MARKERS	
Lump Sum	LS	PORTABLE LIGHTING	
417	LF	2" WATER LINE	
163	LF	6" WATER LINE	
429	LF	16" WATER LINE	
4,300	LB	DUCTILE IRON WATER PIPE FITTINGS	
1	EA	2" VALVE	
11	EA	RELOCATE WATER METER	
3	EA	RECONNECT WATER METER	
1	EA	RELOCATE FIRE HYDRANT	
4	EA	16" LINE STOP WITH BYPASS	
160	LF	ABANDON 6" UTILITY PIPE	
425	LF	ABANDON 16" UTILITY PIPE	
6,315	LF	TEMPORARY SILT FENCE	
125	TON	STONE FOR EROSION CONTROL, CLASS A	
225	TON	STONE FOR EROSION CONTROL, CLASS B	
220	TON	SEDIMENT CONTROL STONE	
7.5	ACR	TEMPORARY MULCHING	
400	LB	SEED FOR TEMPORARY SEEDING	
2	TON	FERTILIZER FOR TEMPORARY SEED- ING	
200	LF	TEMPORARY SLOPE DRAINS	
200	LF	SAFETY FENCE	
400	CY	SILT EXCAVATION	
29,900	SY	MATTING FOR EROSION CONTROL	
100	SY	COIR FIBER MAT	
350	SY	PERMANENT SOIL REINFORCEMENT MAT	
300	LF	1/4" HARDWARE CLOTH	
4,960	LF	WATTLE	
50	LB	POLYACRYLAMIDE (PAM)	
100	LF	COIR FIBER BAFFLE	
9	ACR	SEEDING & MULCHING	
6	ACR	MOWING	
100	LB	SEED FOR REPAIR SEEDING	
0.25	TON	FERTILIZER FOR REPAIR SEEDING	
175	LB	SEED FOR SUPPLEMENTAL SEEDING	
4.75	TON	FERTILIZER TOPDRESSING	
10	MHR	SPECIALIZED HAND MOWING	
75	EA	RESPONSE FOR EROSION CONTROL	
2	EA	GENERIC EROSION CONTROL ITEM CONCRETE WASHOUT STRUCTURE	
18	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	
12,180	LF	SIGNAL CABLE	
64	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	
12	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)	
170	LF	MESSENGER CABLE (1/4")	
5,480	LF	MESSENGER CABLE (3/8")	
50	LF	PAVED TRENCHING (***** (1, 2"))	
70	LF	PAVED TRENCHING (***** (2, 2"))	
9,050	LF	UNPAVED TRENCHING (***** (1, 2"))	
	200	LF	UNPAVED TRENCHING (***** (2, 2"))
	570	LF	UNPAVED TRENCHING (***** (3, 2"))
	140	LF	UNPAVED TRENCHING (***** (5, 2"))
	10	LF	UNPAVED TRENCHING (***** (6, 2"))
	40	LF	UNPAVED TRENCHING (***** (7, 2"))
	90	LF	UNPAVED TRENCHING FOR TEMP- ORARY LEAD-IN
	1,360	LF	DIRECTIONAL DRILL (***** (2, 2"))
	123	EA	JUNCTION BOX (STANDARD SIZE)
	16	EA	JUNCTION BOX (OVER-SIZED, HEA- VY DUTY)
	42	EA	WOOD POLE
	64	EA	GUY ASSEMBLY
	7	EA	1" RISER WITH WEATHERHEAD
	56	EA	2" RISER WITH WEATHERHEAD
	16	EA	2" RISER WITH HEAT SHRINK TUBING
	13,680	LF	INDUCTIVE LOOP SAWCUT
	41,540	LF	LEAD-IN CABLE (***** (14-2))
	20	EA	SIGN FOR SIGNALS
	4	EA	TYPE I POST WITH FOUNDATION
	14	EA	TYPE II PEDESTAL WITH FOUND- ATION
	16	EA	SIGNAL CABINET FOUNDATION
	1	EA	CONDUIT ENTRANCE INTO EXISTING FOUNDATION
	16	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
	66	EA	DETECTOR CARD (TYPE 2070L)
	16	EA	CABINET BASE EXTENDER
	1	EA	GENERIC SIGNAL ITEM 900 MHZ SERIAL/ETHERNET RADIO, USING EXISTING ANTENNA (S)
	16	EA	GENERIC SIGNAL ITEM 900 MHZ SERIAL/ETHERNET SPREAD SPECTRUM RADIO
	19	EA	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH
	1	EA	GENERIC SIGNAL ITEM REPLACE CONFLICT MONITOR
	1	EA	GENERIC SIGNAL ITEM REPLACE CONTROLLER
	538	SF	CIP GRAVITY RETAINING WALLS

## STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L170418 004

CONTRACT ID : C204008 2017CPT.12.18.10231 DIV OFFICE SHELBY

LENGTH = 31.830 MI

COUNTY : CLEVELAND

WIDENING, MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.

MBE GOAL 3.0% WBE 4.0% COMPLETION DATE : NOV 01 2018

US-74 (WEST DIXON BLVD) FROM SR-2049 TO SR-1152 AND 43 SECTIONS OF SECONDARY ROADS.

## ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
7,081	TON	GENERIC GRADING ITEM AGGREGATE SHOULDER BORROW
1,774	TON	INCIDENTAL STONE BASE
40.46	SMI	SHOULDER RECONSTRUCTION
167,641	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
7,934	SY	INCIDENTAL MILLING
3,362	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
17,251	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
2,156	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE)
26,061	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
1,520	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C (LEVELING COURSE)
7,738	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
73	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A (LEVELING COURSE)
3,482	TON	ASPHALT BINDER FOR PLANT MIX
8,200	TON	PATCHING EXISTING PAVEMENT
30	EA	RETROFIT EXISTING CURB RAMP
1	EA	CONCRETE CURB RAMP
10	EA	ADJUSTMENT OF DROP INLETS
39	EA	ADJUSTMENT OF MANHOLES
25	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
5,260	SF	WORK ZONE ADVANCE/GENERAL WARNING SIGNING
Lump Sum	LS	TEMPORARY TRAFFIC CONTROL
40	HR	LAW ENFORCEMENT
380	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
320	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
1,480	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)
1,290	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
40	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
297	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
305,506	LF	PAINT PAVEMENT MARKING LINES (4")
1,145	LF	PAINT PAVEMENT MARKING LINES (24")
8	EA	PAINT PAVEMENT MARKING CHARAC- TER
148	EA	PAINT PAVEMENT MARKING SYMBOL
273,035	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
183,384	LF	POLYUREA PAVEMENT MARKING LINES (6", *****) (HIGHLY REFLECTIVE ELEMENTS)
1,570	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
300	LF	REMOVAL OF PAVEMENT MARKING LINES (6")
1,633	EA	SNOWPLOWABLE PAVEMENT MARKERS
Lump Sum	LS	PORTABLE LIGHTING
2	EA	JUNCTION BOX (STANDARD SIZE)
8,900	LF	INDUCTIVE LOOP SAWCUT
600	LF	LEAD-IN CABLE (***** (14-2)

## FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L170418 005

CONTRACT ID : C203800 34522.3.5

DIV OFFICE SHELBY

LENGTH = 8.045 MI

COUNTY : CATAWBA

WIDENING, GRADING, DRAINAGE, PAVING, AND CULVERTS.

DBE GOAL 9.0% COMPLETION DATE : JAN 28 2021

NC-16 FROM NORTH OF SR-1814 (CALDWELL ROAD) TO SR-1895 (TOWER ROAD).

ROADWAY ITEMS					
			10	EA	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")
Lump Sum	LS	MOBILIZATION	1	EA	*** CS PIPE ELBOWS, ***** THICK (18", 0.064")
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	CLEARING & GRUBBING . ACRE(S)	1	EA	*** CS PIPE ELBOWS, ***** THICK (24", 0.064")
3	ACR	SUPPLEMENTARY CLEARING & GRUBBING			
37	EA	SEALING ABANDONED WELLS	12,002	LF	PIPE REMOVAL
209,600	CY	UNCLASSIFIED EXCAVATION	Lump Sum	LS	FINE GRADING
17,000	CY	UNDERCUT EXCAVATION	88,460	SY	LIME TREATED SOIL (SLURRY METHOD)
215,900	CY	BORROW EXCAVATION	900	TON	LIME FOR LIME TREATED SOIL
9,205	CY	DRAINAGE DITCH EXCAVATION	2,000	CY	SHALLOW UNDERCUT
4,460	LF	BERM DITCH CONSTRUCTION	3,600	TON	CLASS IV SUBGRADE STABILIZATION
21,750	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	2,000	TON	STABILIZER AGGREGATE
340	SY	REMOVAL OF EXISTING CONCRETE PAVEMENT	18,667	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION
1,750	SY	BREAKING OF EXISTING ASPHALT PAVEMENT	4,140	TON	AGGREGATE BASE COURSE
54	HR	PROOF ROLLING	88,460	SY	SOIL CEMENT BASE
2,000	CY	SELECT GRANULAR MATERIAL	2,436	TON	PORTLAND CEMENT FOR SOIL CEMENT BASE
6,200	SY	GEOTEXTILE FOR SOIL STABILIZATION	26,550	GAL	ASPHALT CURING SEAL
29,095	SF	TEMPORARY SHORING	400	TON	INCIDENTAL STONE BASE
10	CY	GENERIC GRADING ITEM	7,000	SY	INCIDENTAL MILLING
		STREAM BENCH MATERIAL	4,050	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
7,735	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	65,100	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
44,450	SY	FOUNDATION CONDITIONING GEOTEXTILE	1,360	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
5,344	LF	15" DRAINAGE PIPE	69,700	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
1,020	LF	18" DRAINAGE PIPE	4,500	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
2,448	LF	24" DRAINAGE PIPE	56,800	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
960	LF	30" DRAINAGE PIPE	10,080	TON	ASPHALT BINDER FOR PLANT MIX
424	LF	36" DRAINAGE PIPE	1,828	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
1,348	LF	15" SIDE DRAIN PIPE	840	CY	SUBDRAIN EXCAVATION
228	LF	18" SIDE DRAIN PIPE	2,500	SY	GEOTEXTILE FOR SUBSURFACE DRAINS
924	LF	15" RC PIPE CULVERTS, CLASS III	420	CY	SUBDRAIN COARSE AGGREGATE
544	LF	18" RC PIPE CULVERTS, CLASS III	2,500	LF	6" PERFORATED SUBDRAIN PIPE
168	LF	24" RC PIPE CULVERTS, CLASS III	5	EA	SUBDRAIN PIPE OUTLET
152	LF	30" RC PIPE CULVERTS, CLASS III	30	LF	6" OUTLET PIPE
632	LF	54" RC PIPE CULVERTS, CLASS III	6,470	LF	SHOULDER DRAIN
356	LF	60" RC PIPE CULVERTS, CLASS III	6,470	LF	4" SHOULDER DRAIN PIPE
172	LF	***** RC PIPE CULVERTS, CLASS IV (60")	700	LF	4" OUTLET PIPE FOR SHOULDER DRAINS
18,484	LF	15" RC PIPE CULVERTS, CLASS IV	10	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET
3,576	LF	18" RC PIPE CULVERTS, CLASS IV	40	TON	BLOTTING SAND
3,908	LF	24" RC PIPE CULVERTS, CLASS IV	27	CY	ENDWALLS
908	LF	30" RC PIPE CULVERTS, CLASS IV	17.1	CY	REINFORCED ENDWALLS
556	LF	36" RC PIPE CULVERTS, CLASS IV	2,559	CY	PIPE PLUGS
280	LF	42" RC PIPE CULVERTS, CLASS IV	80	CY	FLOWABLE FILL
57	EA	*** PIPE END SECTION (15")	389	EA	MASONRY DRAINAGE STRUCTURES
7	EA	*** PIPE END SECTION (18")	20	CY	MASONRY DRAINAGE STRUCTURES
2	EA	*** PIPE END SECTION (24")	98	LF	MASONRY DRAINAGE STRUCTURES
172	LF	*** CS PIPE CULVERTS, ***** THICK (36", 0.079")	21	EA	FRAME WITH GRATE, STD 840.22
740	LF	15" CS PIPE CULVERTS, 0.064" THICK	101	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)
156	LF	18" CS PIPE CULVERTS, 0.064" THICK	84	EA	FRAME WITH TWO GRATES, STD 840.16
60	LF	24" CS PIPE CULVERTS, 0.064" THICK	56	EA	FRAME WITH TWO GRATES, STD 840.22
156	LF	30" CS PIPE CULVERTS, 0.079" THICK	1	EA	FRAME WITH TWO GRATES, STD 840.29
			12	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
			64	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)

			1,940	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)
			1,025	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
			208	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
71	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	611,556	LF	PAINT PAVEMENT MARKING LINES (4")
5	EA	FRAME WITH COVER, STD 840.54	2,772	LF	PAINT PAVEMENT MARKING LINES (8")
76	EA	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	2,288	LF	PAINT PAVEMENT MARKING LINES (24")
58,950	LF	***.*** CONCRETE CURB & GUTTER (2'-9")	10	EA	PAINT PAVEMENT MARKING CHARACTER
28,390	LF	2'-6" CONCRETE CURB & GUTTER	101	EA	PAINT PAVEMENT MARKING SYMBOL
4,350	LF	SHOULDER BERM GUTTER	140,228	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
290	LF	CONCRETE EXPRESSWAY GUTTER	15,560	LF	POLYUREA PAVEMENT MARKING LINES (8", *****) (HIGHLY REFLECTIVE ELEMENTS)
8,090	SY	6" CONCRETE DRIVEWAY	9,178	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
220	SY	4" CONCRETE PAVED DITCH	9	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
490	SY	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	2,603	EA	SNOWPLOWABLE PAVEMENT MARKERS
10,580	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	6	EA	7" U-CHANNEL POSTS
640	SY	GENERIC PAVING ITEM 6" REINFORCED CONCRETE DRIVEWAYS	6	EA	OBJECT MARKERS (END OF ROAD)
2	EA	GENERIC PAVING ITEM EMERGENCY VEHICLE ACCESS	70	LF	8" WATER LINE
2	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE	28,603	LF	12" WATER LINE
9,500	LF	STEEL BM GUARDRAIL	10,770	LB	DUCTILE IRON WATER PIPE FITTINGS
225	LF	STEEL BM GUARDRAIL, SHOP CURVED	1	EA	8" VALVE
2	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS	65	EA	12" VALVE
20	EA	ADDITIONAL GUARDRAIL POSTS	2	EA	1" AIR RELEASE VALVE
5	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1	1	EA	2" BLOW OFF
23	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	1	EA	RELOCATE WATER METER
33	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	39	EA	FIRE HYDRANT
500	LF	REMOVE EXISTING GUARDRAIL	4	EA	RELOCATE FIRE HYDRANT
67,690	LF	WOVEN WIRE FENCE, 47" FABRIC	330	LF	10" SANITARY GRAVITY SEWER
4,130	EA	4" TIMBER FENCE POSTS, 7'-6" LONG	3	EA	4" DIA UTILITY MANHOLE
1,330	EA	5" TIMBER FENCE POSTS, 8'-0" LONG	70	LF	ABANDON 8" UTILITY PIPE
350	TON	RIP RAP, CLASS I	175	LF	ABANDON 10" UTILITY PIPE
2,394	TON	RIP RAP, CLASS II	2,641	LF	ABANDON 12" UTILITY PIPE
304	TON	RIP RAP, CLASS B	1,920	LF	20" ENCASEMENT PIPE
10,756	SY	GEOTEXTILE FOR DRAINAGE	190	LF	24" ENCASEMENT PIPE
10	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON	808	LF	TRENCHLESS INSTALLATION OF 20" IN SOIL
6,035	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	807	LF	TRENCHLESS INSTALLATION OF 20" NOT IN SOIL
12	EA	SIGN ERECTION, TYPE D	95	LF	TRENCHLESS INSTALLATION OF 24" IN SOIL
263	EA	SIGN ERECTION, TYPE E	95	LF	TRENCHLESS INSTALLATION OF 24" NOT IN SOIL
56	EA	SIGN ERECTION, TYPE F	86,000	LF	TEMPORARY SILT FENCE
1	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (D)	4,415	TON	STONE FOR EROSION CONTROL, CLASS A
3	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (E)	10,470	TON	STONE FOR EROSION CONTROL, CLASS B
136	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	9,700	TON	SEDIMENT CONTROL STONE
3	EA	DISPOSAL OF SIGN SYSTEM, WOOD	216	ACR	TEMPORARY MULCHING
4	EA	DISPOSAL OF SUPPORT, U-CHANNEL	10,800	LB	SEED FOR TEMPORARY SEEDING
1,758	SF	WORK ZONE SIGNS (STATIONARY)	55	TON	FERTILIZER FOR TEMPORARY SEEDING
352	SF	WORK ZONE SIGNS (PORTABLE)	5,100	LF	TEMPORARY SLOPE DRAINS
298	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	3,200	LF	SAFETY FENCE
4	EA	FLASHING ARROW BOARD	40,800	CY	SILT EXCAVATION
2	EA	PORTABLE CHANGEABLE MESSAGE SIGN	154,100	SY	MATTING FOR EROSION CONTROL
1,608	EA	DRUMS	960	SY	COIR FIBER MAT
250	EA	CONES	18,550	SY	PERMANENT SOIL REINFORCEMENT MAT
1,556	LF	BARRICADES (TYPE III)	22,900	LF	1/4" HARDWARE CLOTH
4,500	HR	FLAGGER	450	LF	*** TEMPORARY PIPE (18")
18	EA	TEMPORARY CRASH CUSHIONS	280	LF	*** TEMPORARY PIPE (24")
11	EA	RESET TEMPORARY CRASH CUSHION	1,800	LF	*** TEMPORARY PIPE (36")
2	EA	TMA	125	LF	*** TEMPORARY PIPE (60")
4,150	LF	PORTABLE CONCRETE BARRIER (ANCHORED)	275	CY	STILLING BASINS
2,998	LF	RESET PORTABLE CONCRETE BARRIER (ANCHORED)	4	EA	SPECIAL STILLING BASINS
200	HR	LAW ENFORCEMENT	16,700	LF	COIR FIBER WATTLE
100	EA	SKINNY DRUM	12,800	LB	POLYACRYLAMIDE (PAM)
510	EA	TEMPORARY RAISED PAVEMENT MARKERS	9,900	LF	COIR FIBER BAFFLE
165	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	40	EA	*** SKIMMER (1-1/2")
230	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	11	EA	*** SKIMMER (2")
			1	EA	*** SKIMMER (2-1/2")
			162	ACR	SEEDING & MULCHING

120	ACR	MOWING
2,200	LB	SEED FOR REPAIR SEEDING
5.75	TON	FERTILIZER FOR REPAIR SEEDING
3,300	LB	SEED FOR SUPPLEMENTAL SEEDING
99	TON	FERTILIZER TOPDRESSING
580	LF	IMPERVIOUS DIKE
50	MHR	SPECIALIZED HAND MOWING
225	EA	RESPONSE FOR EROSION CONTROL
175	CY	CULVERT DIVERSION CHANNEL
2	ACR	REFORESTATION
0.52	ACR	STREAMBANK REFORESTATION
18	EA	GENERIC EROSION CONTROL ITEM CONCRETE WASHOUT STRUCTURE
6,840	LF	SIGNAL CABLE
62	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
5	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
1	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
3,810	LF	MESSENGER CABLE (3/8")
2,355	LF	UNPAVED TRENCHING (***** (1, 2")
160	LF	DIRECTIONAL DRILL (***** (1, 2")
29	EA	JUNCTION BOX (STANDARD SIZE)
12	EA	WOOD POLE
24	EA	GUY ASSEMBLY
3	EA	1" RISER WITH WEATHERHEAD
6	EA	2" RISER WITH WEATHERHEAD
3,650	LF	INDUCTIVE LOOP SAWCUT
13,090	LF	LEAD-IN CABLE (***** (14-2)
3	EA	SITE SURVEY
6	EA	LUMINAIRE ARM FOR VIDEO SYSTEM
12	EA	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT
3	EA	EXTERNAL LOOP EMULATOR PRO- CESSING UNIT
24	EA	RELOCATE CAMERA SENSOR UNIT
12	EA	METAL STRAIN SIGNAL POLE
12	EA	SOIL TEST
72	CY	DRILLED PIER FOUNDATION
4	EA	SIGN FOR SIGNALS
3	EA	SIGNAL CABINET FOUNDATION
3	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
20	EA	DETECTOR CARD (TYPE 2070L)
3	EA	CABINET BASE EXTENDER

### CULVERT ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (192+97.00 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (230+73.00 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (28+98.00 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (192+97.00 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (230+73.00 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (28+98.00 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (43+58.00 -L-)
1,264	TON	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT
1,642.5	CY	CLASS A CONCRETE (CULVERT)
210,695	LB	REINFORCING STEEL (CULVERT)

### WALL ITEMS

6,782	SF	GENERIC RETAINING WALL ITEM ANCHORED SHEET PILE RETAINING WALL
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## FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L170418 006

CONTRACT ID : C203846 41153.3.1

DIV OFFICE SHELBY

LENGTH = 0.644 MI

COUNTY : GASTON

GRADING, DRAINAGE, PAVING, LIGHTING, SIGNALS, AND CULVERTS.

DBE GOAL 9.0% COMPLETION DATE : APR 29 2020

## GEOMETRIC SAFETY IMPROVEMENTS TO I-85/US-321 INTERCHANGE.

		ROADWAY ITEMS			
			2,500	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
			10,165	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
Lump Sum	LS	MOBILIZATION	1,430	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
Lump Sum	LS	CONSTRUCTION SURVEYING	4,090	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
Lump Sum	LS	CLEARING & GRUBBING . ACRE(S)	560	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D
	1	ACR SUPPLEMENTARY CLEARING & GRUBBING	1,710	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
43,400	CY	UNCLASSIFIED EXCAVATION	7,100	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
7,635	CY	UNDERCUT EXCAVATION	2,310	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D
83,300	CY	BORROW EXCAVATION	290	TON	ASPHALT CONC SURFACE COURSE, TYPE SP9.5A
50	CY	DRAINAGE DITCH EXCAVATION	1,390	TON	ASPHALT BINDER FOR PLANT MIX
700	LF	BERM DITCH CONSTRUCTION	135	TON	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX
10,600	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	50	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
5,000	CY	SELECT GRANULAR MATERIAL	7,660	LF	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)
4,700	SY	GEOTEXTILE FOR SOIL STABILIZATION	224	CY	SUBDRAIN EXCAVATION
17,000	SY	GENERIC GRADING ITEM	1,000	SY	GEOTEXTILE FOR SUBSURFACE DRAINS
		GEOTEXTILE FOR EMBANKMENT STABILIZATION	168	CY	SUBDRAIN COARSE AGGREGATE
1,020	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1,000	LF	6" PERFORATED SUBDRAIN PIPE
2,810	SY	FOUNDATION CONDITIONING GEOTEXTILE	2	EA	SUBDRAIN PIPE OUTLET
92	LF	*** SIDE DRAIN PIPE (36")	12	LF	6" OUTLET PIPE
332	LF	15" SIDE DRAIN PIPE	8	EA	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE
2	EA	*** SIDE DRAIN PIPE ELBOWS (36")	2,538	CY	PIPE COLLARS
356	LF	15" RC PIPE CULVERTS, CLASS III	3	CY	FLOWABLE FILL
188	LF	18" RC PIPE CULVERTS, CLASS III	84	EA	MASONRY DRAINAGE STRUCTURES
604	LF	24" RC PIPE CULVERTS, CLASS III	91	LF	MASONRY DRAINAGE STRUCTURES
432	LF	36" RC PIPE CULVERTS, CLASS III	14	EA	FRAME WITH TWO GRATES, STD 840.16
4	LF	***** RC PIPE CULVERTS, CLASS IV (12")	24	EA	FRAME WITH TWO GRATES, STD 840.20
2,196	LF	15" RC PIPE CULVERTS, CLASS IV	7	EA	FRAME WITH TWO GRATES, STD 840.22
426	LF	18" RC PIPE CULVERTS, CLASS IV	2	EA	FRAME WITH TWO GRATES, STD 840.24
160	LF	24" RC PIPE CULVERTS, CLASS IV	4	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
32	LF	30" RC PIPE CULVERTS, CLASS IV	8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
500	LF	15" CS PIPE CULVERTS, 0.064" THICK	13	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
112	LF	18" CS PIPE CULVERTS, 0.064" THICK	11	EA	FRAME WITH COVER, STD 840.54
100	LF	24" CS PIPE CULVERTS, 0.064" THICK	12	EA	STEEL FRAME WITH TWO GRATES, STD 840.37
18	EA	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")	8	EA	CONCRETE TRANSITIONAL SECTION FOR DROP INLET
4	EA	*** CS PIPE ELBOWS, ***** THICK (18", 0.064")	6,750	LF	2'-6" CONCRETE CURB & GUTTER
4	EA	*** CS PIPE ELBOWS, ***** THICK (24", 0.064")	1,380	LF	SHOULDER BERM GUTTER
960	LF	PIPE REMOVAL	1	EA	MODIFIED CONCRETE FLUME
Lump Sum	LS	FINE GRADING	1,190	LF	CONCRETE EXPRESSWAY GUTTER
1,500	CY	SHALLOW UNDERCUT	1	EA	CONCRETE CURB RAMP
8,510	TON	CLASS IV SUBGRADE STABILIZATION	3,600	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
500	TON	STABILIZER AGGREGATE	480	LF	CONCRETE BARRIER, TYPE ***** (T)
6,802	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION	187	LF	VARIABLE HEIGHT CONCRETE BARRIER, TYPE ***** (T1)
1,459	TON	AGGREGATE BASE COURSE	128	LF	VARIABLE HEIGHT CONCRETE BARRIER, TYPE ***** (T2)
500	TON	INCIDENTAL STONE BASE	45	LF	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
120.75	GAL	PRIME COAT	4	EA	ADJUSTMENT OF CATCH BASINS
27,370	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	1	EA	ADJUSTMENT OF DROP INLETS
1,950	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (3")			
300	SY	INCIDENTAL MILLING			

			45	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			2	EA	DISPOSAL OF SUPPORT, U-CHANNEL
			6	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)
4	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES			
1	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX			
3	EA	CONVERT EXISTING CATCH BASIN TO DROP INLET			
3	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX WITH MANHOLE			
2	EA	IMPACT ATTENUATOR UNIT, TYPE 350			
9,300	LF	STEEL BM GUARDRAIL			
187.5	LF	STEEL BM GUARDRAIL, SHOP CURVED			
2	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS			
10	EA	ADDITIONAL GUARDRAIL POSTS			
1	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1			
3	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1			
8	EA	GUARDRAIL ANCHOR UNITS, TYPE 350			
3	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77			
1,212.5	LF	REMOVE EXISTING GUARDRAIL			
2,510	LF	CHAIN LINK FENCE, *** FABRIC (60")			
3,180	LF	CHAIN LINK FENCE, *** FABRIC (72")			
208	EA	METAL LINE POSTS FOR *** CHAIN LINK FENCE (60")			
262	EA	METAL LINE POSTS FOR *** CHAIN LINK FENCE (72")			
32	EA	METAL TERMINAL POSTS FOR *** CHAIN LINK FENCE (60")			
12	EA	METAL TERMINAL POSTS FOR *** CHAIN LINK FENCE (72")			
250	TON	RIP RAP, CLASS I			
850	TON	RIP RAP, CLASS II			
250	TON	RIP RAP, CLASS A			
500	TON	RIP RAP, CLASS B			
5,435	SY	GEOTEXTILE FOR DRAINAGE			
3	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON			
2	CY	REINFORCED CONCRETE SIGN FOUNDATIONS			
1	CY	PLAIN CONCRETE SIGN FOUNDATIONS			
66	CY	OVERHEAD FOOTING			
1,326	LB	SUPPORTS, BREAKAWAY STEEL BEAM			
1,547	LB	SUPPORTS, SIMPLE STEEL BEAM			
1,500	LF	SUPPORTS, 3-LB STEEL U-CHANNEL			
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (16+50 -Y1-)			
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (27+40 -Y1-)			
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (32+62 -Y1-)			
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (49+42 -L-)			
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (7+30 -Y1-)			
3	EA	SIGN ERECTION, TYPE D			
66	EA	SIGN ERECTION, TYPE E			
13	EA	SIGN ERECTION, TYPE F			
6	EA	SIGN ERECTION, TYPE *** (OVERHEAD)			
6	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED)			
2	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED)			
2	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED)			
2	EA	DISPOSAL OF SUPPORT, STEEL BEAM			
3	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM			
			45	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			2	EA	DISPOSAL OF SUPPORT, U-CHANNEL
			6	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)
			3	EA	DISPOSAL OF LIGHTING SYSTEM
			3	EA	DISPOSAL OF WALKWAY
			1	EA	GENERIC SIGNING ITEM DISPOSAL OF SIGN SYSTEM ON SPAN WIRE
			12	EA	GENERIC SIGNING ITEM CUTTING OF SIGN HANGERS, OVERHEAD
			769	SF	WORK ZONE SIGNS (STATIONARY)
			1,021	SF	WORK ZONE SIGNS (PORTABLE)
			100	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
			6	EA	FLASHING ARROW BOARD
			4	EA	PORTABLE CHANGEABLE MESSAGE SIGN
			6	DAY	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)
			293	EA	DRUMS
			181	EA	CONES
			264	LF	BARRICADES (TYPE III)
			90	DAY	FLAGGER
			2	EA	TEMPORARY CRASH CUSHIONS
			4	EA	TMA
			2,810	LF	PORTABLE CONCRETE BARRIER
			240	HR	LAW ENFORCEMENT
			181	EA	SKINNY DRUM
			239	EA	TEMPORARY RAISED PAVEMENT MARKERS
			500	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)
			1,300	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
			22	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
			137	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
			45,521	LF	PAINT PAVEMENT MARKING LINES (4")
			19,989	LF	PAINT PAVEMENT MARKING LINES (6")
			1,209	LF	PAINT PAVEMENT MARKING LINES (8")
			1,490	LF	PAINT PAVEMENT MARKING LINES (12")
			1,360	LF	PAINT PAVEMENT MARKING LINES (24")
			8	EA	PAINT PAVEMENT MARKING CHARACTER
			198	EA	PAINT PAVEMENT MARKING SYMBOL
			30,925	LF	POLYUREA PAVEMENT MARKING LINES (4", *****)
			13,650	LF	POLYUREA PAVEMENT MARKING LINES (6", *****)
			1,700	LF	POLYUREA PAVEMENT MARKING LINES (8", *****)
			1,500	LF	POLYUREA PAVEMENT MARKING LINES (12", *****)
			23,738	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
			19,671	LF	REMOVAL OF PAVEMENT MARKING LINES (6")
			290	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
			306	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
			55	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
			2	EA	GENERIC PAVEMENT MARKING ITEM IN LANE ROUTE SHIELDS
			950	EA	SNOWPLOWABLE PAVEMENT MARKERS
			3	EA	OBJECT MARKERS (END OF ROAD)
			1	EA	80' HIGH MOUNT STANDARD
			2	EA	100' HIGH MOUNT STANDARD
			3	EA	120' HIGH MOUNT STANDARD
			1	EA	PORTABLE DRIVE UNIT
			42	CY	HIGH MOUNT FOUNDATIONS
			4	EA	STANDARD FOUNDATION ***** (R1)
			2	EA	STANDARD FOUNDATION ***** (R2)
			1	EA	ELECTRIC SERVICE POLE ***** (30' CLASS 4)

			16,500	LF	TEMPORARY SILT FENCE
			765	TON	STONE FOR EROSION CONTROL, CLASS A
25	LF	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)	2,595	TON	STONE FOR EROSION CONTROL, CLASS B
1	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 V)	1,725	TON	SEDIMENT CONTROL STONE
280	LF	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")	39	ACR	TEMPORARY MULCHING
190	LF	ELECTRICAL DUCT, TYPE BD, SIZE ***** (3")	2,300	LB	SEED FOR TEMPORARY SEEDING
560	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (2")	13	TON	FERTILIZER FOR TEMPORARY SEEDING
255	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")	2,225	LF	TEMPORARY SLOPE DRAINS
230	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (4")	1,600	LF	SAFETY FENCE
700	LF	** #4 W/G FEEDER CIRCUIT (2)	4,040	CY	SILT EXCAVATION
3,380	LF	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1-1/2")	17,500	SY	MATTING FOR EROSION CONTROL
4,990	LF	** #4 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1-1/2")	450	SY	COIR FIBER MAT
Lump Sum	LS	GENERIC LIGHTING ITEM UNDERPASS CIRCUITRY (AT I-85/US-321 INTERCHANGE)	4,300	SY	PERMANENT SOIL REINFORCEMENT MAT
12	EA	GENERIC LIGHTING ITEM 100' HIGH MOUNT LUMINAIRE - LED	2,900	LF	1/4" HARDWARE CLOTH
24	EA	GENERIC LIGHTING ITEM 120' HIGH MOUNT LUMINAIRE - LED	930	LF	** TEMPORARY PIPE (54")
8	EA	GENERIC LIGHTING ITEM 80' HIGH MOUNT LUMINAIRE - LED	570	LF	** TEMPORARY PIPE (60")
11	EA	GENERIC LIGHTING ITEM ELECTRICAL JUNCTION BOXES PC18	3	EA	SPECIAL STILLING BASINS
3	EA	GENERIC LIGHTING ITEM ELECTRICAL JUNCTION BOXES PC36	1,650	LF	WATTLE
6	EA	GENERIC LIGHTING ITEM LIGHT STANDARD, MTLT 45' SA, 15' ARM	870	LB	POLYACRYLAMIDE (PAM)
6	EA	GENERIC LIGHTING ITEM ROADWAY LIGHT STANDARD LUMINAIRE - 285W LED	1,300	LF	COIR FIBER BAFFLE
12	EA	GENERIC LIGHTING ITEM UNDERPASS LUMINARIES (WM)	5	EA	** SKIMMER (1-1/2")
5	CY	CLASS B CONCRETE FOR ENCASING UTILITY LINES	1	EA	** SKIMMER (2")
332	LF	8" WATER LINE	39	ACR	SEEDING & MULCHING
98	LF	12" WATER LINE	19.5	ACR	MOWING
824	LF	24" WATER LINE	400	LB	SEED FOR REPAIR SEEDING
3,735	LB	DUCTILE IRON WATER PIPE FITTINGS	1.25	TON	FERTILIZER FOR REPAIR SEEDING
2	EA	8" VALVE	900	LB	SEED FOR SUPPLEMENTAL SEEDING
1	EA	24" VALVE	26.75	TON	FERTILIZER TOPDRESSING
3	EA	RELOCATE WATER METER	230	LF	IMPERVIOUS DIKE
1	EA	RECONNECT WATER METER	10	MHR	SPECIALIZED HAND MOWING
3	EA	RELOCATE FIRE HYDRANT	25	EA	RESPONSE FOR EROSION CONTROL
295	LF	8" SANITARY GRAVITY SEWER	1	ACR	REFORESTATION
1,264	LF	24" SANITARY GRAVITY SEWER	6	EA	GENERIC EROSION CONTROL ITEM CONCRETE WASHOUT STRUCTURE
701	LF	12" FORCE MAIN SEWER	80	EA	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE
1	EA	SANITARY SEWER CLEAN-OUT	200	EA	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT
2,280	LB	DUCTILE IRON SEWER PIPE FITTINGS	5	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)
11	EA	4' DIA UTILITY MANHOLE	9,130	LF	SIGNAL CABLE
67	LF	UTILITY MANHOLE WALL, 4' DIA	69	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
686	LF	ABANDON 8" UTILITY PIPE	3	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
1,015	LF	ABANDON 12" UTILITY PIPE	890	LF	MESSENGER CABLE (1/4")
415	LF	ABANDON 18" UTILITY PIPE	1,240	LF	MESSENGER CABLE (3/8")
1,513	LF	ABANDON 24" UTILITY PIPE	2,360	LF	TRACER WIRE
3	EA	REMOVE WATER METER	2,430	LF	UNPAVED TRENCHING (*****) (1, 2")
7	EA	ABANDON UTILITY MANHOLE	320	LF	UNPAVED TRENCHING (*****) (2, 2")
708	LF	36" ENCASEMENT PIPE	60	LF	UNPAVED TRENCHING (*****) (4, 2")
348	LF	TRENCHLESS INSTALLATION OF 36" IN SOIL	1,410	LF	UNPAVED TRENCHING FOR TEMPORARY LEAD-IN
116	LF	TRENCHLESS INSTALLATION OF 36" NOT IN SOIL	2,330	LF	DIRECTIONAL DRILL (*****) (1, 2")
5	EA	GENERIC UTILITY ITEM SEAL SANITARY SEWER MANHOLE	990	LF	DIRECTIONAL DRILL (*****) (2, 2")
315	LF	GENERIC UTILITY ITEM POLYETHYLENE ENCASEMENT (POLY WRAP)	31	EA	JUNCTION BOX (STANDARD SIZE)
100	LF	GENERIC UTILITY ITEM POLYETHYLENE ENCASEMENT (WATER LINE)	16	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)
			9	EA	WOOD POLE
			24	EA	GUY ASSEMBLY
			1	EA	1/2" RISER WITH WEATHERHEAD
			11	EA	2" RISER WITH WEATHERHEAD
			2	EA	HEAT SHRINK TUBING RETROFIT KIT
			3	EA	2" RISER WITH HEAT SHRINK TUBING
			11,790	LF	INDUCTIVE LOOP SAWCUT
			24,930	LF	LEAD-IN CABLE (*****) (14-2)
			7,240	LF	COMMUNICATIONS CABLE (**FIBER) (24")
			2,920	LF	DROP CABLE
			5	EA	SPLICE ENCLOSURE
			1	EA	MODIFY SPLICE ENCLOSURE
			6	EA	INTERCONNECT CENTER
			6	EA	FIBER-OPTIC TRANSCEIVER, DROP & REPEAT

			Lump Sum	LS	GENERIC STRUCTURE ITEM PAINTING CONTAINMENT FOR BRIDGE #120
14	EA	DELINEATOR MARKER	1,635	SF	GENERIC STRUCTURE ITEM EPOXY COATING
5	EA	MODIFY RADIO INSTALLATION	9	EA	GENERIC STRUCTURE ITEM BRIDGE JACKING
10	EA	CABLE TRANSFER			
11	EA	METAL POLE WITH SINGLE MAST ARM			
1	EA	METAL POLE WITH DUAL MAST ARM			
12	EA	SOIL TEST			
72	CY	DRILLED PIER FOUNDATION			
12	EA	MAST ARM WITH METAL POLE DE- SIGN			
25	EA	SIGN FOR SIGNALS			
2	EA	TYPE I POST WITH FOUNDATION			
2	EA	TYPE II PEDESTAL WITH FOUND- ATION			
1	EA	TYPE III PEDESTAL WITH FOUND- ATION			
4	EA	SIGNAL CABINET FOUNDATION			
6	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			
31	EA	DETECTOR CARD (TYPE 2070L)			
6	EA	CABINET BASE EXTENDER			
2	EA	METAL POLE FOUNDATION REMOVAL			
2	EA	METAL POLE REMOVAL			
1	EA	GENERIC SIGNAL ITEM POWDER COAT FOR DUAL MAST ARM POLE (BLACK)			
11	EA	GENERIC SIGNAL ITEM POWDER COAT FOR SINGLE MAST ARM POLE (BLACK)			
2	EA	GENERIC SIGNAL ITEM POWDER COAT FOR TYPE I POST WITH FOUNDATION (BLACK)			
2	EA	GENERIC SIGNAL ITEM POWDER COAT FOR TYPE II PED- ESTAL WITH FOUNDATION (BLACK)			
1	EA	GENERIC SIGNAL ITEM POWDER COAT FOR TYPE III PED- ESTAL WITH FOUNDATION (BLACK)			
7	EA	GENERIC SIGNAL ITEM REMOVE WIRELESS ASSEMBLY (LOCAL)			
1	EA	GENERIC SIGNAL ITEM REMOVE WIRELESS ASSEMBLY (MASTER)			

### CULVERT ITEMS

111	CY	FOUNDATION EXCAVATION			
Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (22+34.00-Y3-)			
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (16+57.60-RPD-)			
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (18+50.00-RPD-)			
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (21+83.98-Y3-)			
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (31+64.31 RPD-)			
1,368	TON	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT			
1,522.6	CY	CLASS A CONCRETE (CULVERT)			
167,710	LB	REINFORCING STEEL (CULVERT)			
Lump Sum	LS	GENERIC CULVERT ITEM PRECAST REINF CONC 3 SIDED CULVERT AT STA 22+34.00-Y3-			
Lump Sum	LS	GENERIC STRUCTURE ITEM CULVERT LIGHTING SYSTEM AT STA 21+83.98-Y3-			
Lump Sum	LS	GENERIC STRUCTURE ITEM CULVERT LIGHTING SYSTEM AT STA 31+64.31-RPD-			
12	EA	GENERIC STRUCTURE ITEM CULVERT LIGHTING LUMINAIRE			

### STRUCTURE ITEMS

Lump Sum	LS	POLLUTION CONTROL			
80.6	CF	CONCRETE REPAIRS			
262.5	CF	SHOTCRETE REPAIRS			
33.8	LF	EPOXY RESIN INJECTION			
Lump Sum	LS	GENERIC STRUCTURE ITEM CLEANING & PAINTING EXISTING WEATHERING STEEL FOR BRIDGE #120			

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L170418 007

CONTRACT ID : C203953 39079.3.4

DIV OFFICE ASHEVILLE

LENGTH = 80.000 MI

COUNTY : BUNCOMBE

ITS.

DBE GOAL 1.0% COMPLETION DATE : DEC 22 2020

ASHEVILLE - CITY WIDE SIGNAL IMPROVEMENTS.

Lump Sum		ROADWAY ITEMS			
		MOBILIZATION	10	EA	CABLE TRANSFER
25	SY	GENERIC PAVING ITEM	10	EA	SIGN FOR SIGNALS
		4" CONCRETE SIDEWALK	22	EA	TYPE I POST WITH FOUNDATION
840	SF	WORK ZONE SIGNS (PORTABLE)	4	EA	TYPE II PEDESTAL WITH FOUNDATION
72	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	1	EA	RELOCATE EXISTING SIGN
3	EA	FLASHING ARROW BOARD	5	EA	SIGNAL CABINET FOUNDATION
3	EA	PORTABLE CHANGEABLE MESSAGE SIGN	35	EA	CONDUIT ENTRANCE INTO EXISTING FOUNDATION
150	EA	DRUMS	3	EA	MODIFY FOUNDATION FOR CONTROLLER CABINET
150	EA	CONES	5	EA	CONTROLLER WITH CABINET (*****)
50	LF	BARRICADES (TYPE III)			(2070E, 332, BASE MOUNTED)
400	HR	FLAGGER	25	EA	CONTROLLER WITH CABINET (*****)
3	EA	TMA			(2070E, 336S BASE MOUNTED)
450	HR	LAW ENFORCEMENT	34	EA	CONTROLLER WITH CABINET (*****)
100	EA	SKINNY DRUM			(2070E, 336S POLE MOUNTED)
290	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	1,613	EA	DETECTOR CARD (*****)
740	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)			(MODEL 222)
12	LF	REMOVAL OF PAVEMENT MARKING LINES (24")	50	EA	CABINET BASE EXTENDER
46	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	3	EA	CABINET BASE ADAPTER
56,220	LF	SIGNAL CABLE	4	EA	GENERIC SIGNAL ITEM 2.4 GHZ ETHERNET RADIO
159	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	128	EA	GENERIC SIGNAL ITEM 5/8" X 10' GROUNDING ELECTRODE
110	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)	34	EA	GENERIC SIGNAL ITEM 900 MHZ ETHERNET RADIO
6	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)	16	EA	GENERIC SIGNAL ITEM CCTV CABINET
30	EA	APS DETECTOR STATION	2	EA	GENERIC SIGNAL ITEM CCTV CABINET DISCONNECT
4	EA	CENTRAL CONTROL UNIT APS DETECTOR STATION	29	EA	GENERIC SIGNAL ITEM CCTV CAMERA ASSEMBLY
243,940	LF	MESSANGER CABLE (1/4")	1	EA	GENERIC SIGNAL ITEM CCTV TEST CABINET
970	LF	MESSANGER CABLE (3/8")	14	EA	GENERIC SIGNAL ITEM CCTV WOOD POLE
113,700	LF	TRACER WIRE	2	EA	GENERIC SIGNAL ITEM COMMUNICATIONS RACK
830	LF	DIRECTIONAL DRILL (*****)	4	EA	GENERIC SIGNAL ITEM COMPUTER WORKSTATION
		(1, 2")			
41,320	LF	DIRECTIONAL DRILL (*****)	212	EA	GENERIC SIGNAL ITEM CONTROLLER WITH CABINET & AUX FILE (2070E, 332, BASE MOUNTED)
		(2, 2")			
81	EA	JUNCTION BOX (*****)	3	EA	GENERIC SIGNAL ITEM DIGITAL DISPLAY MONITOR
		(SPECIAL-SIZED)			
31	EA	JUNCTION BOX (STANDARD SIZE)	1	EA	GENERIC SIGNAL ITEM ETHERNET CORE SWITCH
355	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	291	EA	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH
5	EA	WOOD POLE	1	EA	GENERIC SIGNAL ITEM FIREWALL
507	EA	GUY ASSEMBLY	1	EA	GENERIC SIGNAL ITEM FURNISH 2.4 GHZ ETHERNET RADIO
5	EA	***" RISER WITH ***** (1", HEAT SHRINK TUBING)	14	EA	GENERIC SIGNAL ITEM FURNISH 2018 ENHANCED CONFLICT MONITOR
25	EA	***" RISER WITH ***** (1.25", HEAT SHRINK TUBING)	14	EA	GENERIC SIGNAL ITEM FURNISH 2070E CONTROLLER
8	EA	1/2" RISER WITH WEATHERHEAD	11	EA	GENERIC SIGNAL ITEM FURNISH 332 CABINET
27	EA	1" RISER WITH WEATHERHEAD	3	EA	GENERIC SIGNAL ITEM FURNISH 336S CABINET
50	EA	2" RISER WITH WEATHERHEAD	2	EA	GENERIC SIGNAL ITEM FURNISH 900 MHZ ETHERNET RADIO
142	EA	HEAT SHRINK TUBING RETROFIT KIT	1	EA	GENERIC SIGNAL ITEM FURNISH CCTV CABINET
197	EA	2" RISER WITH HEAT SHRINK TUBING	2	EA	GENERIC SIGNAL ITEM FURNISH CCTV CAMERA ASSEMBLY
1,336	LF	INDUCTIVE LOOP SAWCUT	2	EA	GENERIC SIGNAL ITEM FURNISH CONFLICT MONITOR TESTER
28,200	LF	LEAD-IN CABLE (*****)	81	EA	GENERIC SIGNAL ITEM FURNISH DETECTOR CARD (MODEL 222)
		(14-2)			
313,780	LF	COMMUNICATIONS CABLE (**FIBER) (24)	15	EA	GENERIC SIGNAL ITEM FURNISH ETHERNET EDGE SWITCH
131,710	LF	COMMUNICATIONS CABLE (**FIBER) (60)			
55,880	LF	COMMUNICATIONS CABLE (**FIBER) (96)			
79,610	LF	DROP CABLE			
237	EA	SPLICE ENCLOSURE			
265	EA	INTERCONNECT CENTER			
108	EA	DELINEATOR MARKER			
32	EA	NEW ELECTRICAL SERVICE			
20,990	LF	REMOVE EXISTING COMMUNICATIONS CABLE			

			42,390	LF	GENERIC SIGNAL ITEM UNDERGROUND CONDUIT (2, 2")
			1,065	LF	GENERIC SIGNAL ITEM WALL-MOUNTED CONDUIT (1.25")
2	EA	GENERIC SIGNAL ITEM FURNISH FIBER-OPTIC POWER METER			
1	EA	GENERIC SIGNAL ITEM FURNISH FIBER-OPTIC RESTORA- TION KIT			
4	EA	GENERIC SIGNAL ITEM FURNISH OPTICAL LIGHT GENERA- TOR			
1	EA	GENERIC SIGNAL ITEM FURNISH SPARE CABLE & CONNec- TORS KIT			
1	EA	GENERIC SIGNAL ITEM FURNISH VIDEO MONITOR			
2	EA	GENERIC SIGNAL ITEM FURNISH VISUAL FAULT LOCATOR			
41	EA	GENERIC SIGNAL ITEM GUY ASSEMBLY (AERIAL)			
61	EA	GENERIC SIGNAL ITEM GUY ASSEMBLY (SIDEWALK)			
2	EA	GENERIC SIGNAL ITEM ITS SERVER			
1	EA	GENERIC SIGNAL ITEM KVM SWITCH			
7	EA	GENERIC SIGNAL ITEM LAPTOP COMPUTER			
5	EA	GENERIC SIGNAL ITEM MODIFY EXISTING ELECTRICAL SERVICE			
4	EA	GENERIC SIGNAL ITEM MODIFY EXISTING SPLICE			
1	EA	GENERIC SIGNAL ITEM MODIFY VIDEO SERVER			
1	EA	GENERIC SIGNAL ITEM MW VEH DET SYS - MULTI ZONE			
1	EA	GENERIC SIGNAL ITEM NETWORK VIDEO RECORDER			
2	EA	GENERIC SIGNAL ITEM POLE-MOUNT RADIO CABINET			
1	EA	GENERIC SIGNAL ITEM PRINTER			
1	EA	GENERIC SIGNAL ITEM PTZ JOYSTICK			
1	EA	GENERIC SIGNAL ITEM REMOVE SPLICE/HUB CABINET			
1	EA	GENERIC SIGNAL ITEM REMOVE SPLICE/HUB CABINET FOUNDATION			
2	EA	GENERIC SIGNAL ITEM SOLAR POWER ASSEMBLY			
5	EA	GENERIC SIGNAL ITEM SPECIAL COATING (332 CABINET)			
2	EA	GENERIC SIGNAL ITEM SPECIAL COATING (336 CABINET)			
5	EA	GENERIC SIGNAL ITEM SPECIAL COATING (BASE EXTENDER /ADAPTER)			
4	EA	GENERIC SIGNAL ITEM SURFACE MOUNTED JUNCTION BOX			
1	EA	GENERIC SIGNAL ITEM TERMINAL SPLICE CABINET			
1	EA	GENERIC SIGNAL ITEM TEST CONTROLLER WITH CABINET			
1	EA	GENERIC SIGNAL ITEM UPS (TMC)			
Lump Sum	LS	GENERIC SIGNAL ITEM CITY HALL MODIFICATIONS			
Lump Sum	LS	GENERIC SIGNAL ITEM DIVISION 13 OFFICE MODIFICA- TIONS			
Lump Sum	LS	GENERIC SIGNAL ITEM MODIFY CCTV SOFTWARE			
Lump Sum	LS	GENERIC SIGNAL ITEM NETWORK MANAGEMENT SOFTWARE			
Lump Sum	LS	GENERIC SIGNAL ITEM SIGNAL SYSTEM SOFTWARE			
Lump Sum	LS	GENERIC SIGNAL ITEM SYSTEM SUPPORT SOFTWARE AND DEVICES			
Lump Sum	LS	GENERIC SIGNAL ITEM TMC MODIFICATIONS			
Lump Sum	LS	GENERIC SIGNAL ITEM TRAINING			
880	LF	GENERIC SIGNAL ITEM AERIAL CABLE PROTECTOR			
675	LF	GENERIC SIGNAL ITEM ETHERNET CABLE			
300	LF	GENERIC SIGNAL ITEM PLENUM-RATED COMMUNICATIONS CABLE (24 FIBER)			
1,965	LF	GENERIC SIGNAL ITEM UNDERGROUND CONDUIT (1, 2")			

