



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

March 7, 2002

**Addendum No. 1**

RE: State Project: 8.2250108  
F. A. Project: MA-STPNHS-5855 (2)  
New Hanover County (U-92B)  
Smith Creek Parkway From Proposed  
US-117 Connector to East of 23<sup>rd</sup> Street.

**March 19, 2002 Letting**

To Whom It May Concern:

Reference is made to the plans and proposal form recently furnished to you on the above referenced project.

The following revisions have been made to the roadway plans and cross-sections:

On sheet no. 3-J, the "Embankment +%" column in the Earthwork Summary has been revised. Please void sheet no. 3-J in your plans and staple the revised sheet no. 3-J thereto.

Cross-Sections Summary sheet nos. X-0 and X-0A have been revised because some stations were inadvertently omitted. Please void sheet nos. X-0 and X-0A in your cross-section plans and staple the revised sheet nos. X-0 and X-0A thereto.

The following revisions have been made to the proposal form:

On page no. 28A the project special provision "Vibration Monitoring" has been added.


On page no. 19 of the item sheets the line item "369-0000900000-N-SP Vibration Monitoring" has been added.

On page no. 165 the third paragraph of the "Utility Construction" project special provision has been revised.

In view of these revisions we are sending a new proposal form dated (Revised 3-7-02). Please discard the proposal form previously furnished to you and replace with the revised proposal form.

We are sending new diskettes to those bidders who requested diskettes when ordering proposals for the above referenced project. Please destroy the diskettes previously furnished and replace with diskette dated March 7, 2002.

Sincerely,



R. A. Garris, P.E.  
Contract Officer

RAG/jag/pa  
(Attachments)

cc: Mr. J. D. Goins, P.E.  
Mr. S. D. DeWitt, P.E. (1)  
Mr. H. A. Pope, PE (2)  
Ms. D. M. Barbour, P.E.  
Mr. J. A. Bennett, P.E.  
Mr. J. V. Barbour, P.E.  
Mr. R. E. Davenport, Jr., P.E.  
Ms. Kim Canady  
Ms. Yang-Ju Lin  
Project File (2)

**CONTROL OF VIBRATION:**

The Contractor's attention is directed to Articles 107-12 and 107-15 of the Standard Specifications. Control of vibration is required for construction of the following structures: Bridge on SR1302 (23<sup>rd</sup> Street) over Smith Creek (Sta 19+79.000 -Y3-), and Bridges on Smith Creek Parkway over 23<sup>rd</sup> Street and Smith Creek (Sta 47+15.075 -L-). It is the responsibility of the Contractor to utilize construction methods and equipment to minimize possible disruption of production and/or damage to the adjacent building occupied by AAI International located at 1726 N. 23<sup>rd</sup> Street. The Contractor shall use non-impact or non-shattering methods such as saw cutting for removal of the existing 23<sup>rd</sup> Street bridge. Equipment such as hoe rams and wrecking balls will not be allowed. Additionally, the Contractor must not drive piles during AAI International's working hours, which are presently 7 AM to 12 AM (Midnight) Monday through Friday. Coordination of work with AAI International is required due to the possibility of extended work hours being required at times. These restrictions apply to driving piles at End Bent 2 on the Smith Creek Parkway bridges over 23<sup>rd</sup> St/Smith Creek and driving all piles on the 23<sup>rd</sup> Street bridge over Smith Creek. Also, work on the pile/panel wall at End Bent 2 of the Smith Creek Parkway Bridge shall be performed using methods which keep vibration levels as low as possible. Use of vibratory compaction equipment is not allowed for placement and/or compaction of earth material, stone, or for asphalt pavement within 100 feet of the AAI International building.

The work shall also include furnishing and operating vibration monitoring devices (engineering seismographs) for the duration of the project in the AAI International building. It is anticipated that no more than two devices will be required. These devices shall have been calibrated within the previous twelve months. These devices shall be capable of recording vibrations in the three perpendicular axes: vertical, transverse, and longitudinal, and also be capable of recording the full vibration waveform. Geophones shall exhibit linear response in the frequency range of 4-100 Hertz. The monitoring devices shall also be capable of recording sound. These devices shall be placed in locations acceptable to the Engineer, and shall be in place before beginning any construction of any operations that would generate detectable vibrations in the AAI building. The devices shall become the property of the Department upon completion of the project.

Continuous monitoring will be required during the initial stages of each particular phase of work that could generate detectable vibrations at the AAI building. This entails having personnel present at the monitoring devices during the entire time that work is being performed. Once safe levels have been confirmed, instruments only need to be checked on a daily basis. A copy of the results of monitoring shall be furnished to the Engineer.

A Vibration Monitoring Preconstruction Conference shall be scheduled before beginning any work on the project, and shall include personnel from the Contractor, and representatives from the Construction Unit, Division 3 and the Soils and Foundations Section of NCDOT.

All costs for the above described work shall be included in the Lump Sum price bid for "Vibration Monitoring."



Project: U-92B  
County: New Hanover

## PROJECT SPECIAL PROVISIONS

Utility Construction

### I. GENERAL CONSTRUCTION REQUIREMENTS:

#### Specifications:

The proposed utility construction shall meet the applicable requirements of the NC Department of Transportation's "Standard Specifications for Roads and Structures" dated January 2002, and the following provisions.

Water mains shall be laid at least 3.05 m laterally from existing or proposed sanitary sewers.

All new sewer lines shall be tested for water tightness. Leakage into the sewer lines shall not exceed 230 liters per 25 millimeters diameter per kilometer of pipe per 24 hours for any section of line between adjoined manholes and 230 liters per 25 millimeters diameter per kilometer of pipe per 24 hours for any line, or system of lines, extending through two or more manholes. The Contractor shall be required to videotape all new sewer mains and laterals. Additionally, all new manholes shall be videotaped by panning the inside. The Contractor shall provide a copy for the City and the Engineer to review. The costs for videotaping shall be incidental to the cost of the installation of the proposed sewer pipe.

The Contractor is herein forewarned as to the possibility of having to vary the depth of pipeline installation to achieve minimum clearance of existing or proposed utilities or storm drainage while maintaining minimum cover specified (whether existing or proposed pipelines, conduits, cables, mains, and storm drainage are shown on the plans or not).

#### Owner and Owner's Requirements:

The existing utilities belong to the City of Wilmington. The Contractor shall provide access for the owner's representatives to all phases of construction. The owners shall be notified two weeks prior to commencement of any work and one week prior to service interruption.

The owners shall be notified in advance of any interruptions of water service with ample time to make arrangements. Interruption of water service on main lines shall be limited to a maximum of 4 hours unless approved by the Engineer.

### II. COMPENSATION:

No direct payment will be made for utility construction work required by the preceding provisions, which are general requirements applying to utility construction, and all of the requirements stated will be considered incidental

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| 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                 | 0000900000-N | SP    | GENERIC MISCELLANEOUS ITEM<br>CLEARING (2HA)                                | Lump Sum     | L.S.      |        |
| 0004                 | 0000900000-N | SP    | GENERIC MISCELLANEOUS ITEM<br>FOUNDATION REMOVAL                            | Lump Sum     | L.S.      |        |
| 0005                 | 0000990000-M | SP    | GENERIC MISCELLANEOUS ITEM<br>DISPOSAL OF CONTAMINATED<br>GROUNDWATER       | 350,000<br>L |           |        |
| 0006                 | 0000995000-M | SP    | GENERIC MISCELLANEOUS ITEM<br>DISPOSAL OF NON-HAZARDOUS<br>WASTE AND DEBRIS | 1,500<br>MTN |           |        |
| 0007                 | 0001000000-M | 200   | CLEARING & GRUBBING ... HEC-<br>TARE(S)                                     | Lump Sum     | L.S.      |        |
| 0008                 | 0008000000-M | 200   | SUPPLEMENTARY CLEARING & GRUB-<br>BING                                      | 0.8<br>HA    |           |        |
| 0009                 | 0022000000-M | 225   | UNCLASSIFIED EXCAVATION   | 49,500<br>M3 |           |        |
| 0010                 | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 36+55.905 LT)     | Lump Sum     | L.S.      |        |
| 0011                 | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 36+55.905 RT)     | Lump Sum     | L.S.      |        |
| 0012                 | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 37+00.168 LT)     | Lump Sum     | L.S.      |        |
| 0013                 | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 37+00.168 RT)     | Lump Sum     | L.S.      |        |
| 0014                 | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 38+77.895 RT)     | Lump Sum     | L.S.      |        |
| 0015                 | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 38+80.703 LT)     | Lump Sum     | L.S.      |        |

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| Line # | Item Number  | Sec # | Description  | Quantity     | Unit Cost | Amount |
|--------|--------------|-------|--|--------------|-----------|--------|
| 0016   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 39+27.955 RT)  | Lump Sum     | L.S.      |        |
| 0017   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 39+30.763 LT)  | Lump Sum     | L.S.      |        |
| 0018   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 42+40.682 LT)  | Lump Sum     | L.S.      |        |
| 0019   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 42+40.682 RT)  | Lump Sum     | L.S.      |        |
| 0020   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 48+99.607 LT)  | Lump Sum     | L.S.      |        |
| 0021   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-L- 48+99.607 RT)  | Lump Sum     | L.S.      |        |
| 0022   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-Y1RPD- 22+78.740) | Lump Sum     | L.S.      |        |
| 0023   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-Y1RPD- 23+30.666) | Lump Sum     | L.S.      |        |
| 0024   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-Y3- 19+38.686)    | Lump Sum     | L.S.      |        |
| 0025   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-Y3- 20+19.314)    | Lump Sum     | L.S.      |        |
| 0026   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-Y3LPB- 1+93.025)  | Lump Sum     | L.S.      |        |
| 0027   | 0029000000-N | SP    | REINFORCED BRIDGE APPROACH<br>FILL, STATION *****<br>(-Y3RPB- 2+82.636)  | Lump Sum     | L.S.      |        |
| 0028   | 0036000000-M | 225   | UNDERCUT EXCAVATION  | 71,900<br>M3 |           |        |
| 0029   | 0080000000-M | SP    | CLASS IV SUBGRADE STABILIZA-<br>TION                                     | 300<br>MTN   |           |        |

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| Line # | Item Number  | Sec # | Description                                  | Quantity      | Unit Cost | Amount |
|--------|--------------|-------|--|---------------|-----------|--------|
| 0030   | 0106000000-M | 230   | BORROW EXCAVATION                            | 759,000<br>M3 |           |        |
| 0031   | 0113000000-M | SP    | SELECT BORROW MATERIAL                       | 60,000<br>M3  |           |        |
| 0032   | 0127000000-N | SP    | EMBANKMENT SETTLEMENT GAUGES                 | 4<br>EA       |           |        |
| 0033   | 0134000000-M | 240   | DRAINAGE DITCH EXCAVATION                    | 14,500<br>M3  |           |        |
| 0034   | 0156000000-M | 250   | REMOVAL OF EXISTING ASPHALT PAVEMENT         | 6,340<br>M2   |           |        |
| 0035   | 0192000000-N | 260   | PROOF ROLLING                                | 9<br>HR       |           |        |
| 0036   | 0196000000-M | 270   | FABRIC FOR SOIL STABILIZATION                | 1,500<br>M2   |           |        |
| 0037   | 0199000000-M | SP    | TEMPORARY SHORING                            | 950<br>M2     |           |        |
| 0038   | 0318000000-M | 300   | FOUNDATION CONDITIONING MATERIAL, MINOR STRS | 915<br>MTN    |           |        |
| 0039   | 0366000000-M | 310   | 375MM RC PIPE CULVERTS, CLASS III            | 1,222.8<br>M  |           |        |
| 0040   | 0372000000-M | 310   | 450MM RC PIPE CULVERTS, CLASS III            | 112.8<br>M    |           |        |
| 0041   | 0378000000-M | 310   | 600MM RC PIPE CULVERTS, CLASS III            | 240<br>M      |           |        |
| 0042   | 0384000000-M | 310   | 750MM RC PIPE CULVERTS, CLASS III            | 214.8<br>M    |           |        |
| 0043   | 0390000000-M | 310   | 900MM RC PIPE CULVERTS, CLASS III            | 372<br>M      |           |        |
| 0044   | 0396000000-M | 310   | 1050MM RC PIPE CULVERTS, CLASS III           | 52.8<br>M     |           |        |
| 0045   | 0408000000-M | 310   | 1350MM RC PIPE CULVERTS, CLASS III           | 20.4<br>M     |           |        |
| 0046   | 0448000000-M | 310   | ****MM RC PIPE CULVERTS, CLASS IV (1050MM)   | 164.4<br>M    |           |        |

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| Line # | Item Number  | Sec # | Description  | Quantity      | Unit Cost | Amount |
|--------|--------------|-------|--|---------------|-----------|--------|
| 0047   | 0448000000-M | 310   | ****MM RC PIPE CULVERTS, CLASS IV<br>(600MM)                             | 74.4<br>M     |           |        |
| 0048   | 0448000000-M | 310   | ****MM RC PIPE CULVERTS, CLASS IV<br>(900MM)                             | 69.6<br>M     |           |        |
| 0049   | 0660000000-M | 310   | ****MM BIT COAT CS PIPE CULVERTS, TYPE A ****MM THICK<br>(400MM, 1.63MM) | 340.8<br>M    |           |        |
| 0050   | 0660000000-M | 310   | ****MM BIT COAT CS PIPE CULVERTS, TYPE A ****MM THICK<br>(450MM, 1.63MM) | 7.2<br>M      |           |        |
| 0051   | 0680000000-M | 310   | ***MM BIT COAT CS PIPE ELBOWS, TYPE A ****MM THICK<br>(400MM, 1.63MM)    | 34<br>EA      |           |        |
| 0052   | 0680000000-M | 310   | ***MM BIT COAT CS PIPE ELBOWS, TYPE A ****MM THICK<br>(450MM, 1.63MM)    | 2<br>EA       |           |        |
| 0053   | 0995000000-M | 340   | PIPE REMOVAL   | 222<br>M      |           |        |
| 0054   | 0996000000-N | 350   | PIPE CLEAN-OUT   | 5<br>EA       |           |        |
| 0055   | 1011000000-N | 500   | FINE GRADING   | Lump Sum      | L.S.      |        |
| 0056   | 1110000000-M | 510   | STABILIZER AGGREGATE   | 2,000<br>MTN  |           |        |
| 0057   | 1121000000-M | 520   | AGGREGATE BASE COURSE  | 32,800<br>MTN |           |        |
| 0058   | 1220000000-M | 545   | INCIDENTAL STONE BASE  | 400<br>MTN    |           |        |
| 0059   | 1275000000-M | 600   | PRIME COAT   | 8,913<br>L    |           |        |
| 0060   | 1330000000-M | 607   | INCIDENTAL MILLING   | 2,000<br>M2   |           |        |
| 0061   | 1489000000-M | 610   | ASPHALT CONC BASE COURSE, TYPE B25.0B                                    | 5,000<br>MTN  |           |        |
| 0062   | 1491000000-M | 610   | ASPHALT CONC BASE COURSE, TYPE B25.0C                                    | 6,800<br>MTN  |           |        |
| 0063   | 1498000000-M | 610   | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B                            | 13,200<br>MTN |           |        |



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| Line # | Item Number  | Sec # | Description                                   | Quantity     | Unit Cost | Amount |
|--------|--------------|-------|---|--------------|-----------|--------|
| 0064   | 1503000000-M | 610   | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C | 5,000<br>MTN |           |        |
| 0065   | 1519000000-M | 610   | ASPHALT CONC SURFACE COURSE, TYPE S9.5B       | 7,500<br>MTN |           |        |
| 0066   | 1523000000-M | 610   | ASPHALT CONC SURFACE COURSE, TYPE S9.5C       | 4,900<br>MTN |           |        |
| 0067   | 1560000000-M | 620   | ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22  | 1,855<br>MTN |           |        |
| 0068   | 1565000000-M | 620   | ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22  | 320<br>MTN   |           |        |
| 0069   | 1693000000-M | 654   | ASPHALT PLANT MIX PAVEMENT REPAIR             | 100<br>MTN   |           |        |
| 0070   | 2022000000-M | 815   | SUBDRAIN EXCAVATION                           | 828<br>M3    |           |        |
| 0071   | 2033000000-M | 815   | SUBDRAIN FINE AGGREGATE                       | 414<br>M3    |           |        |
| 0072   | 2044000000-M | 815   | 150MM PERFORATED SUBDRAIN PIPE                | 1,000<br>M   |           |        |
| 0073   | 2055000000-M | 815   | 150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS      | 100<br>EA    |           |        |
| 0074   | 2066000000-N | 815   | CONCRETE PAD FOR SUBDRAIN PIPE OUTLET         | 7<br>EA      |           |        |
| 0075   | 2077000000-M | 815   | 150MM OUTLET PIPE (SUBDRAINS)                 | 14<br>M      |           |        |
| 0076   | 2209000000-M | 838   | ENDWALLS                                      | 28.4<br>M3   |           |        |
| 0077   | 2220000000-M | 838   | REINFORCED ENDWALLS                           | 7.2<br>M3    |           |        |
| 0078   | 2253000000-M | 840   | PIPE COLLARS                                  | 2.21<br>M3   |           |        |
| 0079   | 2275000000-M | SP    | FLOWABLE FILL                                 | 5<br>M3      |           |        |
| 0080   | 2286000000-N | 840   | MASONRY DRAINAGE STRUCTURES                   | 93<br>EA     |           |        |
| 0081   | 2308000000-M | 840   | MASONRY DRAINAGE STRUCTURES                   | 5.1<br>M     |           |        |

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| Line # | Item Number  | Sec # | Description  | Quantity   | Unit Cost | Amount |
|--------|--------------|-------|--|------------|-----------|--------|
| 0082   | 2363000000-N | 840   | FRAME WITH TWO GRATES, STD<br>840.*****<br>(840.16)    | 4<br>EA    |           |        |
| 0083   | 2363000000-N | 840   | FRAME WITH TWO GRATES, STD<br>840.*****<br>(840.22)    | 6<br>EA    |           |        |
| 0084   | 2363000000-N | 840   | FRAME WITH TWO GRATES, STD<br>840.*****<br>(840.29)    | 29<br>EA   |           |        |
| 0085   | 2374000000-N | 840   | FRAME WITH GRATE & HOOD, STD<br>840.03, TYPE **<br>(E) | 10<br>EA   |           |        |
| 0086   | 2374000000-N | 840   | FRAME WITH GRATE & HOOD, STD<br>840.03, TYPE **<br>(F) | 21<br>EA   |           |        |
| 0087   | 2374000000-N | 840   | FRAME WITH GRATE & HOOD, STD<br>840.03, TYPE **<br>(G) | 15<br>EA   |           |        |
| 0088   | 2396000000-N | 840   | FRAME WITH COVER, STD 840.54                           | 7<br>EA    |           |        |
| 0089   | 2451000000-N | 840   | CONCRETE APRON FOR DROP INLETS                         | 3<br>EA    |           |        |
| 0090   | 2500000000-M | 842   | CONCRETE RETAINING WALLS                               | 48<br>M3   |           |        |
| 0091   | 2535000000-M | 846   | *** X ***MM CONCRETE CURB<br>(200MM X 300MM)           | 40<br>M    |           |        |
| 0092   | 2542000000-M | 846   | 450MM CONCRETE CURB & GUTTER                           | 330<br>M   |           |        |
| 0093   | 2549000000-M | 846   | 750MM CONCRETE CURB & GUTTER                           | 3,200<br>M |           |        |
| 0094   | 2556000000-M | 846   | SHOULDER BERM GUTTER                                   | 1,690<br>M |           |        |
| 0095   | 2591000000-M | 848   | 100MM CONCRETE SIDEWALK                                | 50<br>M2   |           |        |
| 0096   | 2598000000-M | 848   | CONCRETE WHEELCHAIR RAMPS                              | 11<br>M2   |           |        |
| 0097   | 2612000000-M | 848   | 150MM CONCRETE DRIVEWAY                                | 227<br>M2  |           |        |
| 0098   | 2655000000-M | 852   | 125MM MONOLITHIC CONCRETE IS-<br>LANDS (KEYED IN)      | 575<br>M2  |           |        |

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| Line # | Item Number  | Sec # | Description                                       | Quantity      | Unit Cost | Amount |
|--------|--------------|-------|---|---------------|-----------|--------|
| 0099   | 2724000000-N | 857   | PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED | 66<br>M       |           |        |
| 0100   | 2815000000-N | 858   | ADJUSTMENT OF DROP INLETS                         | 1<br>EA       |           |        |
| 0101   | 2830000000-N | 858   | ADJUSTMENT OF MANHOLES                            | 3<br>EA       |           |        |
| 0102   | 2845000000-N | 858   | ADJUSTMENT OF METER BOXES OR VALVE BOXES          | 6<br>EA       |           |        |
| 0103   | 3000000000-N | SP    | IMPACT ATTENUATOR UNIT, TYPE 350                  | 4<br>EA       |           |        |
| 0104   | 3030000000-M | 862   | STEEL BM GUARDRAIL                                | 3,512.82<br>M |           |        |
| 0105   | 3150000000-N | 862   | ADDITIONAL GUARDRAIL POSTS                        | 75<br>EA      |           |        |
| 0106   | 3210000000-N | 862   | GUARDRAIL ANCHOR UNITS, TYPE CAT-1                | 12<br>EA      |           |        |
| 0107   | 3215000000-N | 862   | GUARDRAIL ANCHOR UNITS, TYPE III                  | 34<br>EA      |           |        |
| 0108   | 3270000000-N | SP    | GUARDRAIL ANCHOR UNITS, TYPE 350                  | 16<br>EA      |           |        |
| 0109   | 3285000000-N | SP    | GUARDRAIL ANCHOR UNITS, TYPE M-350                | 10<br>EA      |           |        |
| 0110   | 3315000000-N | 862   | GUARDRAIL ANCHOR UNITS, TYPE XI (MOD)             | 3<br>EA       |           |        |
| 0111   | 3360000000-M | 863   | REMOVE EXISTING GUARDRAIL                         | 100<br>M      |           |        |
| 0112   | 3503000000-M | 866   | WOVEN WIRE FENCE, 1200MM FABRIC                   | 2,575<br>M    |           |        |
| 0113   | 3509000000-M | 866   | 100MM TIMBER FENCE POSTS, 2.30M LONG              | 500<br>EA     |           |        |
| 0114   | 3515000000-M | 866   | 125MM TIMBER FENCE POSTS, 2.50M LONG              | 230<br>EA     |           |        |
| 0115   | 3536000000-M | 866   | CHAIN LINK FENCE, 1200MM FABRIC                   | 120<br>M      |           |        |

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| Line # | Item Number  | Sec # | Description   | Quantity     | Unit Cost | Amount |
|--------|--------------|-------|---|--------------|-----------|--------|
| 0116   | 3542000000-M | 866   | METAL LINE POSTS FOR 1200MM CHAIN LINK FENCE                  | 33<br>EA     |           |        |
| 0117   | 3548000000-M | 866   | METAL TERMINAL POSTS FOR 1200MM CHAIN LINK FENCE              | 2<br>EA      |           |        |
| 0118   | 3557000000-M | 866   | ADDITIONAL BARBED WIRE  | 100<br>M     |           |        |
| 0119   | 3628000000-M | 876   | PLAIN RIP RAP, CLASS I  | 300<br>MTN   |           |        |
| 0120   | 3649000000-M | 876   | PLAIN RIP RAP, CLASS B  | 175<br>MTN   |           |        |
| 0121   | 3656000000-M | 876   | FILTER FABRIC FOR DRAINAGE                                    | 2,270<br>M2  |           |        |
| 0122   | 3984000000-M | SP    | GENERIC WALL ITEM<br>PILE PANEL RETAINING WALL,<br>AT -Y3LPD- | 86<br>M2     |           |        |
| 0123   | 3984000000-M | SP    | GENERIC WALL ITEM<br>PILE PANEL RETAINING WALL,<br>AT -Y3-    | 257<br>M2    |           |        |
| 0124   | 4048000000-M | 902   | REINFORCED CONCRETE SIGN FOOT-<br>INGS                        | 38<br>M3     |           |        |
| 0125   | 4054000000-M | 902   | PLAIN CONCRETE SIGN FOOTINGS                                  | 1<br>M3      |           |        |
| 0126   | 4060000000-M | 903   | SUPPORTS, BREAKAWAY STEEL BEAM                                | 15,045<br>KG |           |        |
| 0127   | 4066000000-M | 903   | SUPPORTS, SIMPLE STEEL BEAM                                   | 358<br>KG    |           |        |
| 0128   | 4072000000-M | 903   | SUPPORTS, 4.5KG STEEL<br>U-CHANNEL                            | 665<br>M     |           |        |
| 0129   | 4096000000-N | 904   | SIGN ERECTION, TYPE D   | 8<br>EA      |           |        |
| 0130   | 4102000000-N | 904   | SIGN ERECTION, TYPE E   | 44<br>EA     |           |        |
| 0131   | 4108000000-N | 904   | SIGN ERECTION, TYPE F   | 29<br>EA     |           |        |
| 0132   | 4109000000-N | 904   | SIGN ERECTION, TYPE *** (OVER-<br>HEAD)<br>(A)                | 24<br>EA     |           |        |
| 0133   | 4110000000-N | 904   | SIGN ERECTION, TYPE ***<br>(GROUND MOUNTED)<br>(A)            | 15<br>EA     |           |        |

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| Line # | Item Number  | Sec # | Description   | Quantity | Unit Cost | Amount |
|--------|--------------|-------|---|----------|-----------|--------|
| 0134   | 4110000000-N | 904   | SIGN ERECTION, TYPE ***<br>(GROUND MOUNTED)<br>(B)  | 9<br>EA  |           |        |
| 0135   | 4115000000-N | 904   | SIGN ERECTION, OVERLAY (OVERHE<br>AD)   | 21<br>EA |           |        |
| 0136   | 4149000000-N | 907   | DISPOSAL OF SIGN SYSTEM, OVER-<br>HEAD  | 2<br>EA  |           |        |
| 0137   | 4152000000-N | 907   | DISPOSAL OF SIGN SYSTEM, STEEL<br>BEAM  | 9<br>EA  |           |        |
| 0138   | 4155000000-N | 907   | DISPOSAL OF SIGN SYSTEM, U-<br>CHANNEL  | 27<br>EA |           |        |
| 0139   | 4192000000-N | 907   | DISPOSAL OF SUPPORT, U-CHANNEL  | 2<br>EA  |           |        |
| 0140   | 4234000000-N | 907   | DISPOSAL OF SIGN, A OR B<br>(OVERHEAD)  | 24<br>EA |           |        |
| 0141   | 4238000000-N | 907   | DISPOSAL OF SIGN, D, E OR F   | 8<br>EA  |           |        |
| 0142   | 4360000000-N | SP    | GENERIC SIGNING ITEM<br>DMS SYSTEM CLIENT COMPUTER  | 1<br>EA  |           |        |
| 0143   | 4360000000-N | SP    | GENERIC SIGNING ITEM<br>DMS SYSTEM CONTROL SOFTWARE   | 1<br>EA  |           |        |
| 0144   | 4360000000-N | SP    | GENERIC SIGNING ITEM<br>DMS SYSTEM LAPTOP COMPUTER  | 1<br>EA  |           |        |
| 0145   | 4360000000-N | SP    | GENERIC SIGNING ITEM<br>DMS SYSTEM SERVER COMPUTER  | 1<br>EA  |           |        |
| 0146   | 4360000000-N | SP    | GENERIC SIGNING ITEM<br>DYNAMIC MESSAGE SIGN BENCH TES<br>T UNIT                                  | 1<br>EA  |           |        |
| 0147   | 4360000000-N | SP    | GENERIC SIGNING ITEM<br>ERECT BRIDGE MNTD OUTRIGGER<br>SIGN<br>SPPRT ASSEMBLY FOR TYPE E<br>SIGNS | 2<br>EA  |           |        |
| 0148   | 4360000000-N | SP    | GENERIC SIGNING ITEM<br>STOCKPILE BRIDGE MOUNTED OUTRI<br>GGER SIGN<br>SUPPORT ASSEMBLY           | 4<br>EA  |           |        |

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| Line # | Item Number  | Sec # | Description  | Quantity | Unit Cost | Amount |
|--------|--------------|-------|--|----------|-----------|--------|
| 0149   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>DYNAMIC MESSAGE SIGN MAINTENANCE<br>TRAINING                 | Lump Sum | L.S.      |        |
| 0150   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>DYNAMIC MESSAGE SIGN SYSTEM "D<br>MS-1"                      | Lump Sum | L.S.      |        |
| 0151   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>DYNAMIC MESSAGE SIGN SYSTEM "D<br>MS-2"                      | Lump Sum | L.S.      |        |
| 0152   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>DYNAMIC MESSAGE SIGN SYSTEM DE<br>SIGN<br>APPROVAL TESTS     | Lump Sum | L.S.      |        |
| 0153   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>DYNAMIC MESSAGE SIGN SYSTEM OP<br>ERATIONAL<br>FACTORY TESTS | Lump Sum | L.S.      |        |
| 0154   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>DYNAMIC MESSAGE SIGN SYSTEM OP<br>ERATIONAL<br>FIELD TESTS   | Lump Sum | L.S.      |        |
| 0155   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"A"            | Lump Sum | L.S.      |        |
| 0156   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"B"            | Lump Sum | L.S.      |        |
| 0157   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"C"            | Lump Sum | L.S.      |        |
| 0158   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"D"            | Lump Sum | L.S.      |        |
| 0159   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"DMS-1"        | Lump Sum | L.S.      |        |

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| Line # | Item Number  | Sec # | Description  | Quantity | Unit Cost | Amount |
|--------|--------------|-------|--|----------|-----------|--------|
| 0160   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"E"    | Lump Sum | L.S.      |        |
| 0161   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"F"    | Lump Sum | L.S.      |        |
| 0162   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"G"    | Lump Sum | L.S.      |        |
| 0163   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"H"    | Lump Sum | L.S.      |        |
| 0164   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>LRS LIGHTING FOR OVERHEAD SIGN<br>ASSEMBLY<br>"I"    | Lump Sum | L.S.      |        |
| 0165   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD DYNAMIC MESSAGE SIGN<br>ASSEMBLY<br>"DMS-1" | Lump Sum | L.S.      |        |
| 0166   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD DYNAMIC MESSAGE SIGN<br>ASSEMBLY<br>"DMS-2" | Lump Sum | L.S.      |        |
| 0167   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "A"                           | Lump Sum | L.S.      |        |
| 0168   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "B"                           | Lump Sum | L.S.      |        |
| 0169   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "C"                           | Lump Sum | L.S.      |        |
| 0170   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "D"                           | Lump Sum | L.S.      |        |
| 0171   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "E"                           | Lump Sum | L.S.      |        |
| 0172   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "F"                           | Lump Sum | L.S.      |        |

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| Line # | Item Number  | Sec # | Description   | Quantity   | Unit Cost | Amount |
|--------|--------------|-------|---|------------|-----------|--------|
| 0173   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "G"                                  | Lump Sum   | L.S.      |        |
| 0174   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "H"                                  | Lump Sum   | L.S.      |        |
| 0175   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>OVERHEAD SIGN ASSEMBLY "I"                                  | Lump Sum   | L.S.      |        |
| 0176   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "BB" | Lump Sum   | L.S.      |        |
| 0177   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "CC" | Lump Sum   | L.S.      |        |
| 0178   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "DD" | Lump Sum   | L.S.      |        |
| 0179   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "EE" | Lump Sum   | L.S.      |        |
| 0180   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "FF" | Lump Sum   | L.S.      |        |
| 0181   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "GG" | Lump Sum   | L.S.      |        |
| 0182   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "HH" | Lump Sum   | L.S.      |        |
| 0183   | 4370000000-N | SP    | GENERIC SIGNING ITEM<br>UPGRADE HPS LIGHTING FOR OVERH<br>EAD SIGN<br>ASSEMBLY "II" | Lump Sum   | L.S.      |        |
| 0184   | 4400000000-M | 1110  | WORK ZONE SIGNS (STATIONARY)  | 18.6<br>M2 |           |        |
| 0185   | 4405000000-M | 1110  | WORK ZONE SIGNS (PORTABLE)  | 22.5<br>M2 |           |        |



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| Line # | Item Number  | Sec # | Description   | Quantity    | Unit Cost | Amount |
|--------|--------------|-------|---|-------------|-----------|--------|
| 0186   | 4410000000-M | 1110  | WORK ZONE SIGNS (BARRICADE MOUNTED)                 | 4.3<br>M2   |           |        |
| 0187   | 4415000000-N | 1115  | FLASHING ARROW PANELS, TYPE C                       | 2<br>EA     |           |        |
| 0188   | 4420000000-N | 1120  | CHANGEABLE MESSAGE SIGNS                            | 2<br>EA     |           |        |
| 0189   | 4425000000-N | 1125  | WARNING FLAG SETS                                   | 9<br>EA     |           |        |
| 0190   | 4430000000-N | 1130  | DRUMS   | 350<br>EA   |           |        |
| 0191   | 4435000000-N | 1135  | CONES   | 50<br>EA    |           |        |
| 0192   | 4445000000-M | 1145  | BARRICADES (TYPE III)                               | 120<br>M    |           |        |
| 0193   | 4455000000-N | 1150  | FLAGGER   | 540<br>MD   |           |        |
| 0194   | 4460000000-N | 1155  | WARNING LIGHTS (TYPE B)                             | 6<br>EA     |           |        |
| 0195   | 4465000000-N | 1160  | TEMPORARY CRASH CUSHIONS                            | 1<br>EA     |           |        |
| 0196   | 4475000000-N | 1165  | TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)            | 2<br>EA     |           |        |
| 0197   | 4485000000-M | 1170  | PORTABLE CONCRETE BARRIER                           | 135<br>M    |           |        |
| 0198   | 4615000000-M | 1205  | REMOVABLE TAPE PAVEMENT MARKING LINES (100MM)       | 1,000<br>M  |           |        |
| 0199   | 4635000000-M | 1205  | REMOVABLE TAPE PAVEMENT MARKING LINES (600MM)       | 25<br>M     |           |        |
| 0200   | 4650000000-N | 1251  | TEMPORARY RAISED PAVEMENT MARKERS                   | 1,382<br>EA |           |        |
| 0201   | 4685000000-M | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM) | 31,100<br>M |           |        |
| 0202   | 4686000000-M | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM) | 6,590<br>M  |           |        |
| 0203   | 4695000000-M | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM) | 3,000<br>M  |           |        |
| 0204   | 4697000000-M | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 3.1MM) | 300<br>M    |           |        |

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| Line # | Item Number  | Sec # | Description   | Quantity    | Unit Cost | Amount |
|--------|--------------|-------|---|-------------|-----------|--------|
| 0205   | 4710000000-M | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM) | 75<br>M     |           |        |
| 0206   | 4725000000-M | 1205  | THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)       | 64<br>EA    |           |        |
| 0207   | 4730000000-M | 1205  | EPOXY PAVEMENT MARKING LINES (100MM)                | 6,000<br>M  |           |        |
| 0208   | 4740000000-M | 1205  | EPOXY PAVEMENT MARKING LINES (200MM)                | 500<br>M    |           |        |
| 0209   | 4810000000-M | 1205  | PAINT PAVEMENT MARKING LINES (100MM)                | 47,000<br>M |           |        |
| 0210   | 4820000000-M | 1205  | PAINT PAVEMENT MARKING LINES (200MM)                | 300<br>M    |           |        |
| 0211   | 4835000000-M | 1205  | PAINT PAVEMENT MARKING LINES (600MM)                | 200<br>M    |           |        |
| 0212   | 4840000000-N | 1205  | PAINT PAVEMENT MARKING CHARACTER                    | 16<br>EA    |           |        |
| 0213   | 4845000000-N | 1205  | PAINT PAVEMENT MARKING SYMBOL                       | 58<br>EA    |           |        |
| 0214   | 4850000000-M | 1205  | REMOVAL OF PAVEMENT MARKING LINES (100MM)           | 3,500<br>M  |           |        |
| 0215   | 4880000000-M | 1205  | CURING COMPOUND REMOVAL, LINES                      | 6,500<br>M  |           |        |
| 0216   | 4905000000-N | 1253  | SNOWPLOWABLE RAISED PAVEMENT MARKERS                | 783<br>EA   |           |        |
| 0217   | 4915000000-M | 1264  | 2.1M U-CHANNEL POSTS                                | 12<br>EA    |           |        |
| 0218   | 4935000000-N | 1267  | FLEXIBLE DELINEATORS (CRYSTAL)                      | 450<br>EA   |           |        |
| 0219   | 4940000000-N | 1267  | FLEXIBLE DELINEATORS (YELLOW)                       | 242<br>EA   |           |        |
| 0220   | 4945000000-N | 1267  | FLEXIBLE DELINEATORS (CRYSTAL & RED)                | 25<br>EA    |           |        |
| 0221   | 4950000000-N | 1267  | FLEXIBLE DELINEATORS (YELLOW & RED)                 | 25<br>EA    |           |        |

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| Line # | Item Number  | Sec # | Description  | Quantity   | Unit Cost | Amount |
|--------|--------------|-------|--|------------|-----------|--------|
| 0222   | 4957000000-N | 1264  | OBJECT MARKERS (TYPE **)<br>(3)                                      | 12<br>EA   |           |        |
| 0223   | 5255000000-N | 1413  | PORTABLE LIGHTING  | Lump Sum   | L.S.      |        |
| 0224   | 5300000000-M | 1505  | FOUNDATION CONDITIONING MATE-<br>RIAL, UTILITIES CLASS *****<br>(VI) | 114<br>MTN |           |        |
| 0225   | 5306000000-M | SP    | BEDDING MATERIAL, UTILITIES<br>CLASS *****<br>(VI)                   | 114<br>MTN |           |        |
| 0226   | 5330000000-M | 1510  | 150MM DI WATER PIPE, CLASS<br>***** WP<br>(51)                       | 12<br>M    |           |        |
| 0227   | 5414000000-M | 1510  | 20MM COPPER WATER PIPE, TYPE K                                       | 18<br>M    |           |        |
| 0228   | 5480000000-M | 1510  | DUCTILE IRON WATER PIPE FIT-<br>TINGS, 1.72MPA MIN WP                | 235<br>KG  |           |        |
| 0229   | 5648000000-N | 1510  | RELOCATE EXISTING WATER METER  | 2<br>EA    |           |        |
| 0230   | 5690000000-M | 1520  | ***MM PVC SEWER PIPE, SDR 35<br>(250MM)                              | 27<br>M    |           |        |
| 0231   | 5768000000-N | 1520  | SANITARY SEWER CLEAN-OUT   | 3<br>EA    |           |        |
| 0232   | 5774000000-M | 1525  | ****MM DIA PRECAST CONC SEWER<br>MANHOLE 0-2M DEPTH<br>(1200MM)      | 2<br>EA    |           |        |
| 0233   | 5774000000-M | 1525  | ****MM DIA PRECAST CONC SEWER<br>MANHOLE 0-2M DEPTH<br>(1500MM)      | 10<br>EA   |           |        |
| 0234   | 5780000000-M | 1525  | PRECAST CONC MANHOLE WALL,<br>****MM DIA, OVER 2M HT<br>(1200MM)     | 3.8<br>M   |           |        |
| 0235   | 5780000000-M | 1525  | PRECAST CONC MANHOLE WALL,<br>****MM DIA, OVER 2M HT<br>(1500M)      | 12<br>M    |           |        |
| 0236   | 5798000000-M | 1530  | FILL OR REMOVE ABANDONED ***MM<br>PIPE, *****<br>(600MM, TC SEWER)   | 345<br>M   |           |        |

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| Line # | Item Number  | Sec # | Description  | Quantity     | Unit Cost | Amount |
|--------|--------------|-------|--|--------------|-----------|--------|
| 0237   | 5816000000-N | 1530  | BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE   | 11<br>EA     |           |        |
| 0238   | 5828000000-N | 1530  | REMOVE EXISTING MANHOLE  | 1<br>EA      |           |        |
| 0239   | 5840000000-M | 1540  | ****MM STEEL ENCASEMENT PIPE, ****MM THICK, BY OPEN CUT (1200MM, 15.6MM)                             | 97<br>M      |           |        |
| 0240   | 5882000000-N | SP    | GENERIC UTILITY ITEM<br>1500MM DIA PC CONC FALSE BOTTOM<br>MANHOLE WITH FLAT TOP SLAB,<br>0-2M DEPTH | 1<br>EA      |           |        |
| 0241   | 5882000000-N | SP    | GENERIC UTILITY ITEM<br>CONCRETE PIER  | 2<br>EA      |           |        |
| 0242   | 5882000000-N | SP    | GENERIC UTILITY ITEM<br>PILE CAP PIER  | 15<br>EA     |           |        |
| 0243   | 5882000000-N | SP    | GENERIC UTILITY ITEM<br>WATERTIGHT MANHOLE COVER   | 1<br>EA      |           |        |
| 0244   | 5888000000-M | SP    | GENERIC UTILITY ITEM<br>600MM DI SEWER PIPE, CLASS 52  | 96<br>M      |           |        |
| 0245   | 5888000000-M | SP    | GENERIC UTILITY ITEM<br>600MM PVC GRAVITY SEWER PIPE,<br>(C900), DR 25                               | 599<br>M     |           |        |
| 0246   | 6000000000-M | 1605  | TEMPORARY SILT FENCE   | 3,010<br>M   |           |        |
| 0247   | 6006000000-M | 1610  | STONE FOR EROSION CONTROL,<br>CLASS A  | 575<br>MTN   |           |        |
| 0248   | 6009000000-M | 1610  | STONE FOR EROSION CONTROL,<br>CLASS B  | 7,680<br>MTN |           |        |
| 0249   | 6012000000-M | 1610  | SEDIMENT CONTROL STONE   | 4,230<br>MTN |           |        |
| 0250   | 6015000000-M | 1615  | TEMPORARY MULCHING   | 30<br>HA     |           |        |
| 0251   | 6018000000-M | 1620  | SEED FOR TEMPORARY SEEDING   | 2,325<br>KG  |           |        |
| 0252   | 6021000000-M | 1620  | FERTILIZER FOR TEMPORARY SEEDING   | 18.75<br>MTN |           |        |
| 0253   | 6024000000-M | 1622  | TEMPORARY SLOPE DRAINS   | 1,200<br>M   |           |        |

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| Line # | Item Number  | Sec # | Description                                | Quantity | Unit Cost | Amount |
|--------|--------------|-------|--|----------|-----------|--------|
| 0254   | 6027000000-N | 1622  | INLET PROTECTION AT TEMPORARY SLOPE DRAINS | 67       | EA        |        |
| 0255   | 6030000000-M | 1630  | SILT EXCAVATION                            | 18,000   | M3        |        |
| 0256   | 6033000000-M | 1631  | SYNTHETIC ROVING                           | 2,000    | M2        |        |
| 0257   | 6036000000-M | 1631  | MATTING FOR EROSION CONTROL                | 1,000    | M2        |        |
| 0258   | 6042000000-M | 1632  | 6.4MM HARDWARE CLOTH                       | 560      | M         |        |
| 0259   | 6045000000-M | SP    | ***MM TEMPORARY PIPE (450MM)               | 35       | M         |        |
| 0260   | 6048000000-M | SP    | FLOATING TURBIDITY CURTAIN                 | 875      | M2        |        |
| 0261   | 6069000000-M | 1638  | STILLING BASINS                            | 65       | M3        |        |
| 0262   | 6070000000-N | SP    | SPECIAL STILLING BASINS                    | 18       | EA        |        |
| 0263   | 6084000000-M | 1660  | SEEDING & MULCHING                         | 55       | HA        |        |
| 0264   | 6087000000-M | 1660  | MOWING                                     | 15.5     | HA        |        |
| 0265   | 6090000000-M | 1661  | SEED FOR REPAIR SEEDING                    | 325      | KG        |        |
| 0266   | 6093000000-M | 1661  | FERTILIZER FOR REPAIR SEEDING              | 1        | MTN       |        |
| 0267   | 6096000000-M | 1662  | SEED FOR SUPPLEMENTAL SEEDING              | 1,550    | KG        |        |
| 0268   | 6102000000-M | 1664  | SODDING                                    | 4,310    | M2        |        |
| 0269   | 6105000000-M | 1664  | WATER                                      | 968      | KL        |        |
| 0270   | 6108000000-M | 1665  | FERTILIZER TOPDRESSING                     | 92.75    | MTN       |        |
| 0271   | 6111000000-M | SP    | IMPERVIOUS DIKE                            | 15       | M         |        |
| 0272   | 6114000000-N | SP    | SPECIALIZED HAND MOWING                    | 27       | HR        |        |
| 0273   | 6117000000-N | 1675  | RESPONSE FOR EROSION CONTROL               | 24       | EA        |        |

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| Line # | Item Number  | Sec # | Description                            | Quantity | Unit Cost | Amount |
|--------|--------------|-------|--|----------|-----------|--------|
| 0274   | 6123000000-M | 1670  | REFORESTATION                          | 2        | HA        |        |
| 0275   | 6126000000-M | SP    | STREAMBANK REFORESTATION               | 0.47     | HA        |        |
| 0276   | 7060000000-M | 1705  | SIGNAL CABLE                           | 860      | M         |        |
| 0277   | 7120000000-M | 1705  | VEHICLE SIGNAL HEAD (300MM, 3 SECTION) | 15       | EA        |        |
| 0278   | 7132000000-M | 1705  | VEHICLE SIGNAL HEAD (300MM, 4 SECTION) | 4        | EA        |        |
| 0279   | 7144000000-M | 1705  | VEHICLE SIGNAL HEAD (300MM, 5 SECTION) | 10       | EA        |        |
| 0280   | 7180000000-N | 1706  | BACKPLATE                              | 20       | EA        |        |
| 0281   | 7216000000-N | SP    | MODIFY EXISTING VEHICLE SIGNAL HEAD    | 1        | EA        |        |
| 0282   | 7264000000-M | 1710  | MESSENGER CABLE (9.52MM)               | 2,686    | M         |        |
| 0283   | 7276000000-M | 1715  | JACK & BORE                            | 163      | M         |        |
| 0284   | 7300000000-M | 1715  | TRENCHING (UNPAVED)                    | 640      | M         |        |
| 0285   | 7324000000-N | 1716  | JUNCTION BOX (STANDARD SIZE)           | 15       | EA        |        |
| 0286   | 7336000000-N | 1716  | JUNCTION BOX (OVER-SIZED)              | 18       | EA        |        |
| 0287   | 7360000000-N | 1720  | WOOD POLE                              | 10       | EA        |        |
| 0288   | 7372000000-N | 1721  | GUY ASSEMBLY                           | 29       | EA        |        |
| 0289   | 7408000000-M | 1722  | 25MM RISER WITH WEATHERHEAD            | 2        | EA        |        |
| 0290   | 7420000000-M | 1722  | 50MM RISER WITH WEATHERHEAD            | 15       | EA        |        |
| 0291   | 7444000000-M | 1725  | INDUCTIVE LOOP SAWCUT                  | 191      | M         |        |
| 0292   | 7456000000-M | 1726  | LEAD-IN CABLE                          | 440      | M         |        |
| 0293   | 7480000000-N | 1727  | LOOP EMULATOR DETECTION SYSTEM         | 2        | EA        |        |

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| Line #               | Item Number  | Sec # | Description   | Quantity   | Unit Cost | Amount |
|----------------------|--------------|-------|---|------------|-----------|--------|
| 0294                 | 7504000000-M | SP    | COMMUNICATIONS CABLE (**<br>TWISTED-PAIR)<br>(12)                     | 4,550<br>M |           |        |
| 0295                 | 7566000000-N | 1733  | DELINEATOR MARKER   | 18<br>EA   |           |        |
| 0296                 | 7588000000-N | 1741  | SIGNAL SUPPORT MAST ARM WITH<br>METAL POLE                            | 7<br>EA    |           |        |
| 0297                 | 7612000000-N | 1742  | METAL SIGNAL POLE FOUNDATION  | 7<br>EA    |           |        |
| 0298                 | 7684000000-N | 1750  | SIGNAL CABINET FOUNDATION   | 5<br>EA    |           |        |
| 0299                 | 7816000000-N | SP    | DETECTOR CHANNEL (NEMA TS-1)  | 20<br>EA   |           |        |
| 0300                 | 7980000000-N | SP    | GENERIC SIGNAL ITEM<br>2-8 PHASE CONTROLLER AND<br>CABINET            | 5<br>EA    |           |        |
| 0301                 | 7980000000-N | SP    | GENERIC SIGNAL ITEM<br>EXTERNAL ELECTRICAL SERVICE<br>CURCUIT BREAKER | 5<br>EA    |           |        |
| 0302                 | 7980000000-N | SP    | GENERIC SIGNAL ITEM<br>TERMINAL BOX                                   | 10<br>EA   |           |        |
| 0303                 | 7980000000-N | SP    | GENERIC SIGNAL ITEM<br>TS-1 ON-STREET MASTER<br>CONTROLLER AND MODEM  | 1<br>EA    |           |        |
| 0304                 | 7990000000-M | SP    | GENERIC SIGNAL ITEM<br>DIRECTIONAL DRILL POLYETHYLENE<br>CONDUIT      | 475<br>M   |           |        |
| 369                  | 0000900000-N | SP    | GENERIC MISCELLANEOUS ITEM<br>VIBRATION MONITORING                    | Lump Sum   | L.S.      |        |
| <b>CULVERT ITEMS</b> |              |       |   |            |           |        |
| 0305                 | 8126000000-N | 414   | CULVERT EXCAVATION, STA *****<br>(54+00.900 -L-)                      | Lump Sum   | L.S.      |        |
| 0306                 | 8133000000-M | 414   | FOUNDATION CONDITIONING MATER-<br>IAL, BOX CULVERT                    | 42<br>MTN  |           |        |
| 0307                 | 8196000000-M | 420   | CLASS A CONCRETE (CULVERT)  | 53.6<br>M3 |           |        |

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| Line #                 | Item Number  | Sec # | Description   | Quantity    | Unit Cost | Amount |
|------------------------|--------------|-------|---|-------------|-----------|--------|
| 0308                   | 8245000000-M | 425   | REINFORCING STEEL (CULVERT)   | 3,920<br>KG |           |        |
| <b>STRUCTURE ITEMS</b> |              |       |   |             |           |        |
| 0309                   | 8017000000-N | SP    | CONSTRUCTION, MAINTENANCE, &<br>REMOVAL OF TEMP ACCESS AT STA<br>*****<br>(47+15.075 -L-LT) | Lump Sum    | L.S.      |        |
| 0310                   | 8035000000-N | 402   | REMOVAL OF EXISTING STRUCTURE<br>AT STATION *****<br>(19+79.000 -Y3-)                       | Lump Sum    | L.S.      |        |
| 0311                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(1,23+03.247 -Y1RPD-)              | Lump Sum    | L.S.      |        |
| 0312                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(1,36+77.231 -L-LT)                | Lump Sum    | L.S.      |        |
| 0313                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(1,36+77.231 -L-RT)                | Lump Sum    | L.S.      |        |
| 0314                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(1,39+05.029 -L-LT)                | Lump Sum    | L.S.      |        |
| 0315                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(1,39+05.029 -L-RT)                | Lump Sum    | L.S.      |        |
| 0316                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(2,23+03.247 -Y1RPD-)              | Lump Sum    | L.S.      |        |
| 0317                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(2,36+77.231 -L-LT)                | Lump Sum    | L.S.      |        |
| 0318                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(2,36+77.231 -L-RT)                | Lump Sum    | L.S.      |        |
| 0319                   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(2,39+05.029 -L-LT)                | Lump Sum    | L.S.      |        |



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| Line # | Item Number  | Sec # | Description  | Quantity       | Unit Cost | Amount |
|--------|--------------|-------|--|----------------|-----------|--------|
| 0320   | 8091000000-N | 410   | FOUNDATION EXCAVATION FOR BENT<br>** AT STATION *****<br>(2,39+05.029 -L-RT) | Lump Sum       | L.S.      |        |
| 0321   | 8105500000-M | SP    | ****MM DIA DRILLED PIERS IN<br>SOIL<br>(1829MM)                              | 499<br>M       |           |        |
| 0322   | 8105600000-M | SP    | ****MM DIA DRILLED PIERS NOT<br>IN SOIL<br>(1829MM)                          | 115<br>M       |           |        |
| 0323   | 8111000000-M | SP    | PERMANENT STEEL CASING FOR<br>****MM DRILLED PIER<br>(1829MM)                | 334.5<br>M     |           |        |
| 0324   | 8113000000-N | SP    | SID INSPECTION   | 8<br>EA        |           |        |
| 0325   | 8114000000-N | SP    | SPT TESTING  | 10<br>EA       |           |        |
| 0326   | 8115000000-N | SP    | CROSSHOLE SONIC LOGGING  | 8<br>EA        |           |        |
| 0327   | 8116000000-M | SP    | CSL TUBES  | 2,094.6<br>M   |           |        |
| 0328   | 8119000000-M | 412   | UNCLASSIFIED STRUCTURE EXCAVA-<br>TION                                       | 342<br>M3      |           |        |
| 0329   | 8147000000-M | 420   | REINFORCED CONCRETE DECK SLAB  | 22,007.9<br>M2 |           |        |
| 0330   | 8154000000-M | SP    | REINFORCED CONCRETE DECK SLAB<br>(SAND LIGHTWEIGHT CONC)                     | 4,775.5<br>M2  |           |        |
| 0331   | 8161000000-M | 420   | GROOVING BRIDGE FLOORS   | 23,432.7<br>M2 |           |        |
| 0332   | 8175000000-M | 420   | CLASS AA CONCRETE (BRIDGE)   | 3,523.9<br>M3  |           |        |
| 0333   | 8182000000-M | 420   | CLASS A CONCRETE (BRIDGE)  | 869<br>M3      |           |        |
| 0334   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(1+35.263 -Y3LPB)                 | Lump Sum       | L.S.      |        |
| 0335   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(19+79.000 -Y3-)                  | Lump Sum       | L.S.      |        |

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| Line # | Item Number  | Sec # | Description  | Quantity       | Unit Cost | Amount |
|--------|--------------|-------|--|----------------|-----------|--------|
| 0336   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(2+06.174 -Y3RPB-)  | Lump Sum       | L.S.      |        |
| 0337   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(23+03.247 -Y1RPD-) | Lump Sum       | L.S.      |        |
| 0338   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(36+77.231 -L-LT)   | Lump Sum       | L.S.      |        |
| 0339   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(36+77.231 -L-RT)   | Lump Sum       | L.S.      |        |
| 0340   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(39+05.029 -L-LT)   | Lump Sum       | L.S.      |        |
| 0341   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(39+05.029 -L-RT)   | Lump Sum       | L.S.      |        |
| 0342   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(47+15.075 -L-LT)   | Lump Sum       | L.S.      |        |
| 0343   | 8210000000-N | 422   | BRIDGE APPROACH SLABS, STATION<br>*****<br>(47+15.075-L-RT)    | Lump Sum       | L.S.      |        |
| 0344   | 8217000000-M | 425   | REINFORCING STEEL (BRIDGE)                                     | 77,892<br>KG   |           |        |
| 0345   | 8224000000-M | 425   | EPOXY COATED REINFORCING STEEL<br>(BRIDGE)                     | 463,019<br>KG  |           |        |
| 0346   | 8226000000-M | 425   | EPOXY COATED SPIRAL REINFORC-<br>ING STEEL (BRIDGE)            | 52,729<br>KG   |           |        |
| 0347   | 8238000000-M | 425   | SPIRAL COLUMN REINFORCING<br>STEEL (BRIDGE)                    | 7,608<br>KG    |           |        |
| 0348   | 8262000000-M | 430   | 1143MM PRESTRESSED CONCRETE<br>GIRDERS                         | 1,758.28<br>M  |           |        |
| 0349   | 8265000000-M | 430   | 1372MM PRESTRESSED CONCRETE<br>GIRDERS                         | 601.688<br>M   |           |        |
| 0350   | 8277000000-M | 430   | MODIFIED 1829MM PRESTRESSED<br>CONC GIRDERS                    | 7,630.429<br>M |           |        |

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| Line # | Item Number  | Sec # | Description   | Quantity       | Unit Cost | Amount |
|--------|--------------|-------|---|----------------|-----------|--------|
| 0351   | 8329000000-M | 450   | 305MM PRESTRESSED CONC PILES                                  | 1,037.1<br>M   |           |        |
| 0352   | 8336000000-M | 450   | 508MM PRESTRESSED CONC PILES                                  | 4,747<br>M     |           |        |
| 0353   | 8350000000-M | 450   | 610MM PRESTRESSED CONC PILES                                  | 396<br>M       |           |        |
| 0354   | 8364000000-M | 450   | HP310X79 STEEL PILES  | 3,112<br>M     |           |        |
| 0355   | 8398000000-N | SP    | STEEL PILE TIPS   | 496<br>EA      |           |        |
| 0356   | 8482000000-M | 460   | THREE BAR METAL RAIL  | 155.312<br>M   |           |        |
| 0357   | 8503000000-M | 460   | CONCRETE BARRIER RAIL   | 3,632.375<br>M |           |        |
| 0358   | 8531000000-M | 462   | 100MM SLOPE PROTECTION  | 3,095<br>M2    |           |        |
| 0359   | 8608000000-M | 876   | PLAIN RIP RAP CLASS II (600MM THICK)                          | 2,132<br>MTN   |           |        |
| 0360   | 8622000000-M | 876   | FILTER FABRIC FOR DRAINAGE                                    | 2,176<br>M2    |           |        |
| 0361   | 8657000000-N | 430   | ELASTOMERIC BEARINGS  | Lump Sum       | L.S.      |        |
| 0362   | 8692000000-N | SP    | EVAZOTE JOINT SEALS   | Lump Sum       | L.S.      |        |
| 0363   | 8706000000-N | SP    | EXPANSION JOINT SEALS   | Lump Sum       | L.S.      |        |
| 0364   | 8741000000-N | SP    | STRUCTURE DRAINAGE SYSTEM, STA<br>*****<br>(19+79.000 -Y3-)   | Lump Sum       | L.S.      |        |
| 0365   | 8741000000-N | SP    | STRUCTURE DRAINAGE SYSTEM, STA<br>*****<br>(2+06.174 -Y3RPB-) | Lump Sum       | L.S.      |        |
| 0366   | 8741000000-N | SP    | STRUCTURE DRAINAGE SYSTEM, STA<br>*****<br>(47+15.075 -L-LT)  | Lump Sum       | L.S.      |        |
| 0367   | 8741000000-N | SP    | STRUCTURE DRAINAGE SYSTEM, STA<br>*****<br>(47+15.075-L-RT)   | Lump Sum       | L.S.      |        |

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| Line # | Item Number  | Sec # | Description                                   | Quantity       | Unit Cost | Amount |
|--------|--------------|-------|---|----------------|-----------|--------|
| 0368   | 8762000000-M | 430   | 914MM X 533MM PRESTRESSED CONC<br>CORED SLABS | 2,152.305<br>M |           |        |

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Total Amount Of Bid For Entire Project :