

| ROUTE NO.           | SECTION        | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|---------------------|----------------|-----------|--------------------|-----------|
| F.A.S. 1706         | 00-00080-00-BR | EFFINGHAM | 17                 | 2         |
| FED. ROAD DIST. NO. |                | ILLINOIS  | CONTRACT NO. 95524 |           |

### SUMMARY OF QUANTITIES

| CODE NO    | ITEM  | CONSTRUCTION CODE<br>X020-2# |          |
|------------|---|------------------------------|----------|
|            |   | UNIT                         | QUANTITY |
| 20200100   | EARTH EXCAVATION  | CU YD                        | 25       |
| 20300100   | CHANNEL EXCAVATION                                      | CU YD                        | 140      |
| 20400800   | FURNISHED EXCAVATION                                    | CU YD                        | 140      |
| 20700110   | POROUS GRANULAR EMBANKMENT                              | TON                          | 50       |
| > 25001000 | SEEDING, CLASS 2 SPECIAL                                | ACRE                         | 0.1      |
| > 28100807 | STONE DUMPED RIPRAP, CLASS A4                           | TON                          | 550      |
| 40600100   | BITUMINOUS MATERIALS (PRIME COAT)                       | GALLON                       | 38       |
| 40600982   | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT            | SQ YD                        | 147      |
| 40600625   | LEVELING BINDER (MACHINE METHOD), N50                   | TON                          | 47       |
| 40603310   | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50            | TON                          | 58       |
| 48101200   | AGGREGATE SHOULDERS, TYPE B                             | TON                          | 148      |
| 50100100   | REMOVAL OF EXISTING STRUCTURES                          | EACH                         | 1        |
| 50104650   | SLOPE WALL REMOVAL                                      | SQ YD                        | 645      |
| 50300225   | CONCRETE STRUCTURES                                     | CU YD                        | 29.1     |
| 50300255   | CONCRETE SUPERSTRUCTURE                                 | CU YD                        | 93.1     |
| 50300260   | BRIDGE DECK GROOVING                                    | SQ YD                        | 247      |
| 50300280   | CONCRETE ENCASEMENT                                     | CU YD                        | 25.8     |
| 50300300   | PROTECTIVE COAT   | SQ YD                        | 290      |
| 50800205   | REINFORCEMENT BARS, EPOXY COATED                        | POUND                        | 29,520   |
| 50800515   | BAR SPLICERS  | EACH                         | 40       |
| 50901005   | STEEL BRIDGE RAIL, TYPE SM                              | FOOT                         | 156      |
| 51201400   | FURNISHING STEEL PILES HP10X42                          | FOOT                         | 820      |
| 51202305   | DRIVING PILES   | FOOT                         | 820      |
| 51203400   | TEST PILE STEEL HP10X42                                 | EACH                         | 2        |
| 51500100   | NAME PLATES   | EACH                         | 1        |
| * 63000000 | STEEL PLATE BEAM GUARDRAIL, TYPE A                      | FOOT                         | 100      |
| * 63100075 | TRAFFIC BARRIER TERMINAL, TYPE 5A                       | EACH                         | 4        |
| 63200310   | GUARDRAIL REMOVAL                                       | FOOT                         | 188      |
| * 63301210 | REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A  | FOOT                         | 392      |
| > 67100100 | MOBILIZATION  | L SUM                        | 1        |
| > 70102550 | TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR     | EACH                         | 1        |
| > X5020501 | UNDERWATER STRUCTION EXCAVATION PROTECTION - LOCATION 1 | EACH                         | 1        |
| > X5020502 | UNDERWATER STRUCTION EXCAVATION PROTECTION - LOCATION 2 | EACH                         | 1        |

> SEE SPECIAL PROVISIONS

\* SPECIALTY ITEMS

### ROADWAY QUANTITY SCHEDULE

| LOCATION                       | HOT-MIX ASPHALT SURF. CSE. MIX "C", N50 | LEVELING BINDER (MACHINE METHOD), N50 | AGGREGATE SHOULDERS, TYPE B | HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT | BITUMINOUS MATERIAL PRIME COAT |
|--------------------------------|---|---------------------------------------|-----------------------------|--|--------------------------------|
|                                | TON                                     | TON                                   | TON                         | SQ YD                                      | GAL                            |
| STA. 8+00.00 TO STA. 9+63.00   | 34.5                                    | 25                                    | 88                          | 98   | 20                             |
| STA. 9+63.00 TO STA. 10+37.00  |   |                                       |                             |  |                                |
| STA. 10+37.00 TO STA. 11+50.00 | 23.5                                    |                                       | 60                          | 49   | 18                             |
|                                |   | 22                                    |                             |  |                                |
| TOTAL                          | 58                                      | 47                                    | 148                         | 147  | 38                             |

### EARTHWORK SCHEDULE

| LOCATION                 | EARTH EXCAVATION (CU YD) | SHRINKAGE FACTOR | PERCENT USED | AVAILABLE* EXCAVATION (CU YD) | EMBANKMENT REQUIRED (CU YD) | EARTHWORK BALANCE (CU YD) |
|--------------------------|--------------------------|------------------|--------------|-------------------------------|-----------------------------|---------------------------|
| STA. 8+00 TO STA. 9+63   | 10                       | 25%              | 0%           | 0                             | 73                          | -73                       |
| STA. 9+63 TO STA. 10+37  | 0                        | 25%              | 0%           | 0                             | 0                           | 0                         |
| STA. 10+37 TO STA. 11+50 | 15                       | 25%              | 0%           | 0                             | 63                          | -63                       |
| CHANNEL EXCAVATION       | (140)                    | 25%              | 0%           | 0                             |                             | 0                         |
| ENTRANCES                |                          |                  |              |                               | 0                           | 0                         |
| TOTAL                    | 25                       |                  |              | 0                             | 136                         | -136                      |
| USE:                     | 25                       |                  |              |                               |                             | 140                       |

\* AVAILABLE EXCAVATION = EXC. x (1 - SHRINKAGE FACTOR) x % USED (FURN EXC.)

### GENERAL NOTES

#### SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE DEPARTMENT.

#### UTILITIES

THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES AND WATER SERVICE LINES IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

|                             |      |             |
|-----------------------------|------|-------------|
| HOT MIX ASPHALT             | 112  | LB/IN/SQ YD |
| POROUS GRANULAR EMBANKMENT  | 2.00 | TON/CU YD   |
| AGGREGATE SHOULDERS         | 2.00 | TON/CU YD   |
| BIT. MATERIALS (PRIME COAT) | 0.10 | GAL/SQ YD   |
| RIPRAP                      | 1.75 | TON/CU YD   |

### REMOVE AND RE-ERECT GUARDRAIL

| LOCATION                         | FOOT |
|----------------------------------|------|
| RT. STA. 8+00.0 TO STA. 9+22.7   | 123  |
| LT. STA. 8+00.0 TO STA. 9+22.7   | 123  |
| RT. STA. 10+77.3 TO STA. 11+50.0 | 73   |
| LT. STA. 10+77.3 TO STA. 11+50.0 | 73   |
| TOTAL                            | 392  |

### TRAFFIC BARRIER TERMINAL, TYPE 5A

| LOCATION                         | EACH |
|----------------------------------|------|
| RT. STA. 9+47.7 TO STA. 9+60.9   | 1    |
| LT. STA. 9+47.7 TO STA. 9+60.9   | 1    |
| RT. STA. 10+39.1 TO STA. 10+52.3 | 1    |
| LT. STA. 10+39.1 TO STA. 10+52.3 | 1    |
| TOTAL                            | 4    |

### STEEL PLATE BEAM GUARD RAIL, TYPE A

| LOCATION                         | FOOT |
|----------------------------------|------|
| RT. STA. 9+22.7 TO STA. 9+47.7   | 25   |
| LT. STA. 9+22.7 TO STA. 9+47.7   | 25   |
| RT. STA. 10+52.3 TO STA. 10+77.3 | 25   |
| LT. STA. 10+52.3 TO STA. 10+77.3 | 25   |
| TOTAL                            | 100  |

### GUARDRAIL REMOVAL

| LOCATION                         | FOOT |
|----------------------------------|------|
| RT. STA. 9+22.7 TO STA. 9+69.8   | 47   |
| LT. STA. 9+22.7 TO STA. 9+69.8   | 47   |
| RT. STA. 10+30.3 TO STA. 10+77.3 | 47   |
| LT. STA. 10+30.3 TO STA. 10+77.3 | 47   |
| TOTAL                            | 188  |

### MIXTURE REQUIREMENTS

|   |                                |
|---|--------------------------------|
| LOCATION(S):                              | F.A.S. 1706 / C.H. 6           |
| MIXTURE USE(S):                           | HOT-MIX ASPHALT SURFACE COURSE |
| AC/PG:                                    | PG 64-22                       |
| RAP % (MAX):                              | 0%                             |
| DESIGN AIR VOIDS:                         | 4.0% @ N <sub>DES</sub> = 50   |
| MIXTURE COMPOSITION: (GRADATION MIXTURE): | IL-9.5 mm OR IL-12.5 mm        |
| FRICTION AGGREGATE:                       | MIXTURE C                      |
| MIXTURE WEIGHTS                           | 112 LBS./SQ. YD./INCH          |

### MIXTURE REQUIREMENTS

|   |                                  |
|---|----------------------------------|
| LOCATION(S):                              | F.A.S. 1706 / C.H. 6             |
| MIXTURE USE(S):                           | LEVELING BINDER (MACHINE METHOD) |
| AC/PG:                                    | PG 64-22                         |
| RAP % (MAX):                              | 25%                              |
| DESIGN AIR VOIDS:                         | 4.0% @ N <sub>DES</sub> = 50     |
| MIXTURE COMPOSITION: (GRADATION MIXTURE): | IL-9.5mm                         |
| FRICTION AGGREGATE:                       | MIXTURE C                        |
| MIXTURE WEIGHTS                           | 112 LBS./SQ. YD./INCH            |

|   |                               |
|---|-------------------------------|
| <b>HAMPTON, LENZINI &amp; RENWICK, INC.</b><br>CIVIL & STRUCTURAL ENGINEERS<br>LAND SURVEYORS |                               |
| 3085 STEVENSON DRIVE, SUITE 201<br>SPRINGFIELD, ILLINOIS 62703<br>(217) 546-3400              |                               |
|          |                               |
| ELGIN   | SPRINGFIELD                   |
| PROJECT NUMBER: 12-33-0004-1  | DATE: 11/07/07                |
| DESIGNED: R.J.P.  | CHECKED: S.W.M. DRAWN: W.J.S. |

**SUMMARY OF QUANTITIES AND GENERAL NOTES**  
**F.A.S. 1706 / C.H. 6 OVER LAKE SARA**  
**SECTION 00-00080-00-BR**  
**EFFINGHAM COUNTY**