

|                             |                |           |                     |           |
|-----------------------------|----------------|-----------|---------------------|-----------|
| ROUTE NO.                   | SECTION        | COUNTY    | TOTAL SHEETS        | SHEET NO. |
| FAS 330                     | 04-00220-04-RS | IRROQUOIS | 4                   | 2         |
| F. H. W. A. REG. 4 ILLINOIS |                |           | PROJECT RS 330(107) |           |
| CONTACT 87305               |                |           |                     |           |

| SUMMARY OF QUANTITIES |          |  | FUND CODE | I000     |
|-----------------------|----------|--|-----------|----------|
| ITEM #                | CODE #   | ITEM   | UNIT      | QUANTITY |
| 1                     | Z0048665 | RAILROAD PROTECTIVE LIABILITY INSURANCE              | L SUM     | 1.00     |
| 2                     | 28100807 | STONE DUMPED RIPRAP, CLASS A4                        | TON       | 20.00    |
| * 3                   | 40600100 | BITUMINOUS MATERIALS (PRIME COAT)                    | GALLON    | 3700.00  |
| 4                     | 40600300 | AGGREGATE (PRIME COAT)                               | TON       | 132.00   |
| * 5                   | 40600625 | LEVEL BINDER (MACHINE METHOD), N50                   | TON       | 5750.00  |
| * 6                   | 40600982 | HOT- MIX ASPHALT SURFACE REMOVAL - BUTT JOINT        | SQ YD     | 889.00   |
| 7                     | 40600990 | TEMPORARY RAMP                                       | SQ YD     | 48.00    |
| * 8                   | 40603310 | HOT- MIX ASPHALT SURFACE COURSE, MIX "C" N50         | TON       | 5500.00  |
| * 9                   | 40800050 | INCIDENTAL HOT-MIX ASPHALT SURFACING                 | TON       | 423.00   |
| *10                   | 48101200 | AGGREGATE SHOULDERS, TYPE B                          | TON       | 6700.00  |
| 11                    | 54213879 | STEEL END SECTION 24"                                | EACH      | 2.00     |
| *12                   | 54390180 | INSERTION CULVERT LINER 24"                          | FOOT      | 88.00    |
| 13                    | 66700205 | PERMANENT SURVEY MARKER, TYPE 1                      | EACH      | 3.00     |
| 14                    | 67100100 | MOBILIZATION   | L SUM     | 1.00     |
| *15                   | 70100460 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306      | L SUM     | 1.00     |
| *16                   | 70300100 | SHORT-TERM PAVEMENT MARKING                          | FOOT      | 5652.00  |
| *17                   | 70300200 | TEMPORARY PAVEMENT MARKING                           | FOOT      | 31699.00 |
| 18                    | 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL                   | SQ FT     | 942.00   |
| Δ 19                  | 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT     | 201.00   |
| Δ 20                  | 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24"            | FOOT      | 90.00    |
| Δ 21                  | 78001110 | PAINT PAVEMENT MARKING - LINE 4"                     | FOOT      | 31699.00 |

\* SEE SPECIAL PROVISIONS  
Δ SPECIALTY ITEMS

### GENERAL NOTES

THE THICKNESS OF HOT- MIX ASPHALT MIXTURES SHOWN ON THE TYPICAL X-SECTION IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE.

THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

FOR ALL PAVEMENT MARKINGS ON FINAL SURFACES (I.E., MAINLINE PAVEMENT), ONLY TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ADDUMED IN CALCULATING PLAN QUALITIES:

|                                  |       |                             |
|----------------------------------|-------|-----------------------------|
| GRANULAR MATERIALS               | 2.05  | TONS/CU YD                  |
| BITUMINOUS MATERIALS PRIME COAT  | 0.05  | GAL/SQ YD OR 0.35 GAL/SQ YD |
| AGGREGATE PRIME COAT             | 0.002 | TONS/SQ YD                  |
| HOT MIX ASPHALT SURFACE COURSE   | 112   | LBS/SQ YD/INCH              |
| LEVELING BINDER (MACHINE METHOD) | 112   | LBS/SQ YD/INCH              |
| SHORT TERM PAVEMENT MARKING      | 4     | FT/40 FT OF APPLICATION     |
| PAINT PAVEMENT MARKING - LINE 4" | 10    | FT/40 FT OF APPLICATION     |

### SECTION NOTES

THE PROPOSED IMPROVEMENT CONSISTS OF A HOT MIX ASPHALT SURFACE COURSE INCLUDING LEVELING BINDER, SHOULDER STONE AND ALL WORK NECESSARY TO COMPLETE THE PROJECT ACCORDING TO THE PLANS AND SPECIFICATION.

THIS HIGHWAY WAS CONSTRUCTED UNDER SECTIONS 148-15d, 149-15d, 220G, 220Q, 78-00220-03-RS

### PERMANENT SURVEY MARKERS

| STATION               |           |
|-----------------------|-----------|
| 121+63.30             | 148+11.35 |
| 33.4' LT OF 201+32.69 |           |

### FUNCTIONAL OVERLAY

DESIGN DATA FOR INFORMATION ONLY.

FLEXIBLE PAVEMENT OVERLAY DESIGN FOR 73,280 # CLASS III ROAD  
DESIGN PERIOD D. P. = 20 YEARS  
DESIGN YEAR = 2026 PV=88% SU=7% MU=5%  
DESIGN ADT = 572 IBV = 4.35 TRAFFIC FACTOR = 0.126  
 $SN_F = 2.8$   $SN_{Fe} = 1.59$   $D_o = 3.03$

### MIXTURE TABLE

|                       | HMA LEVEL BINDER         | HMA SURFACE       |
|-----------------------|--------------------------|-------------------|
| PG GRADE              | PG64-22                  | PG64-22           |
| MAX % RAP ALLOWABLE** | 15 %                     | 15%               |
| DESIGN AIR VOIDS      | 4.0% @ N50               | 4.0% @ N50        |
| MIXTURE COMPOSITION   | IL 9.5                   | IL 12.5 OR IL 9.5 |
| FRICITION AGGREGATE   |                          | MIXTURE C         |
| DENSITY TEST METHOD   | SATISFACTION OF ENGINEER | CORRELATION       |

\*\* IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

### PAVEMENT MARKINGS & NO PASSING ZONES

| STATION TO STATION    | FOOT | LINE 4" |
|-----------------------|------|---------|
| CENTERLINE            |      |         |
| 105+00 TO 200+00      | 9500 | 2375    |
| 211+00 TO 255+00      | 4400 | 1100    |
| 310+00 TO 336+40      | 2640 | 660     |
| 337+00 TO 381+00      | 4400 | 1100    |
| NO PASSING ZONES      |      |         |
| 105+00 TO 113+00 LT   | 800  | 800     |
| 122+00 TO 131+00 RT   | 900  | 900     |
| 133+00 TO 142+00 LT   | 900  | 900     |
| 161+00 TO 170+00 RT   | 900  | 900     |
| 170+00 TO 180+00 LT   | 1000 | 1000    |
| 190+00 TO 211+00 RT   | 2100 | 2100    |
| 200+00 TO 222+50 LT   | 2250 | 2250    |
| 242+00 TO 310+00 RT   | 6800 | 6800    |
| 255+00 TO 319+00 LT   | 6400 | 6400    |
| 327+00 TO 337+00 RT   | 1000 | 1000    |
| 336+40 TO 346+40 LT   | 1000 | 1000    |
| 370+00 TO 387+56.8 RT | 1757 | 1757    |
| 381+00 TO 387+56.8 LT | 657  | 657     |
| TOTALS                |      | 31,699  |