

INDEX OF SHEETS

| Sheet No. | Description                       |
|-----------|-----------------------------------|
| 1         | COVER SHEET                       |
| 2         | TYPICAL CROSS SECTION AND DETAILS |
| 3 - 4     | DETAILS & SCHEDULES               |

STANDARDS

|           |                 |
|-----------|-----------------|
| 701301-02 | TRAFFIC CONTROL |
| 701306-01 | TRAFFIC CONTROL |
| 702001-06 | TRAFFIC CONTROL |

SUMMARY OF QUANTITIES

| CODE NO.   | DESCRIPTION                                  | QUANTITY | UNIT   |
|------------|--|----------|--------|
| * Z0048665 | RAILROAD PROTECTION LIABILITY INSURANCE      | 1        | L SUM  |
| * 20200100 | EARTH EXCAVATION                             | 35       | CU YD  |
| * 35100100 | AGGREGATE BASE COURSE , TYPE A               | 72       | TON    |
| * 40600100 | BITUMINOUS MATERIALS (PRIME COAT)            | 11273    | GALLON |
| 40600300   | AGGREGATE (PRIME COAT)                       | 228      | TON    |
| 40600625   | LEVELING BINDER (MACHINE METHOD), N50        | 5995     | TON    |
| 40600982   | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | 543      | SQ YD  |
| 40600990   | TEMPORARY RAMP                               | 46       | SQ YD  |
| * 40603310 | HOT-MIX ASPHALT SURFACE CSE. MIX "C", N50    | 8010     | TON    |
| 40800050   | INCIDENTAL HOT-MIX ASPHALT SURFACING         | 263      | TON    |
| 44000154   | HOT-MIX ASPHALT SURFACE REMOVAL - 1 1/4"     | 68       | SQ YD  |
| * 48101200 | AGGREGATE SHOULDERS, TYPE B                  | 3407     | TON    |
| 67100100   | MOBILIZATION                                 | 1        | L SUM  |
| * 70100460 | TRAFFIC CONTROL AND PROTECTION, STD 701306   | 1        | L SUM  |
| * 70300100 | SHORT-TERM PAVEMENT MARKING                  | 7839     | FOOT   |

Construction Code I000

\* Special Provisions

CONTRACT NO. 87323

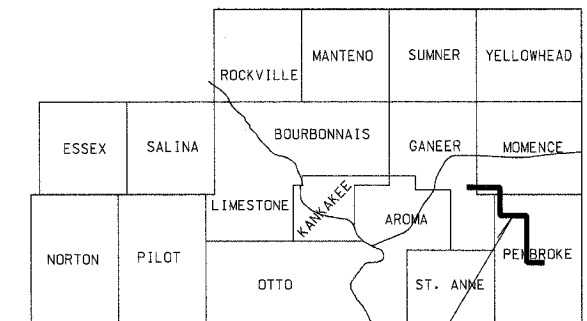
J.U.L.I.E. 1-800-892-0123

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
COUNTY OF KANKAKEE  
DEPARTMENT OF HIGHWAYS  
PLANS FOR PROPOSED  
FEDERAL AID SECONDARY PROJECT  
SECTION 04-00234-01-RS & 04-00235-01-RS  
F.A.S. 313 (C.H.2) PROJECT CRS-313 (106)  
JOB NO. C-93-058-06

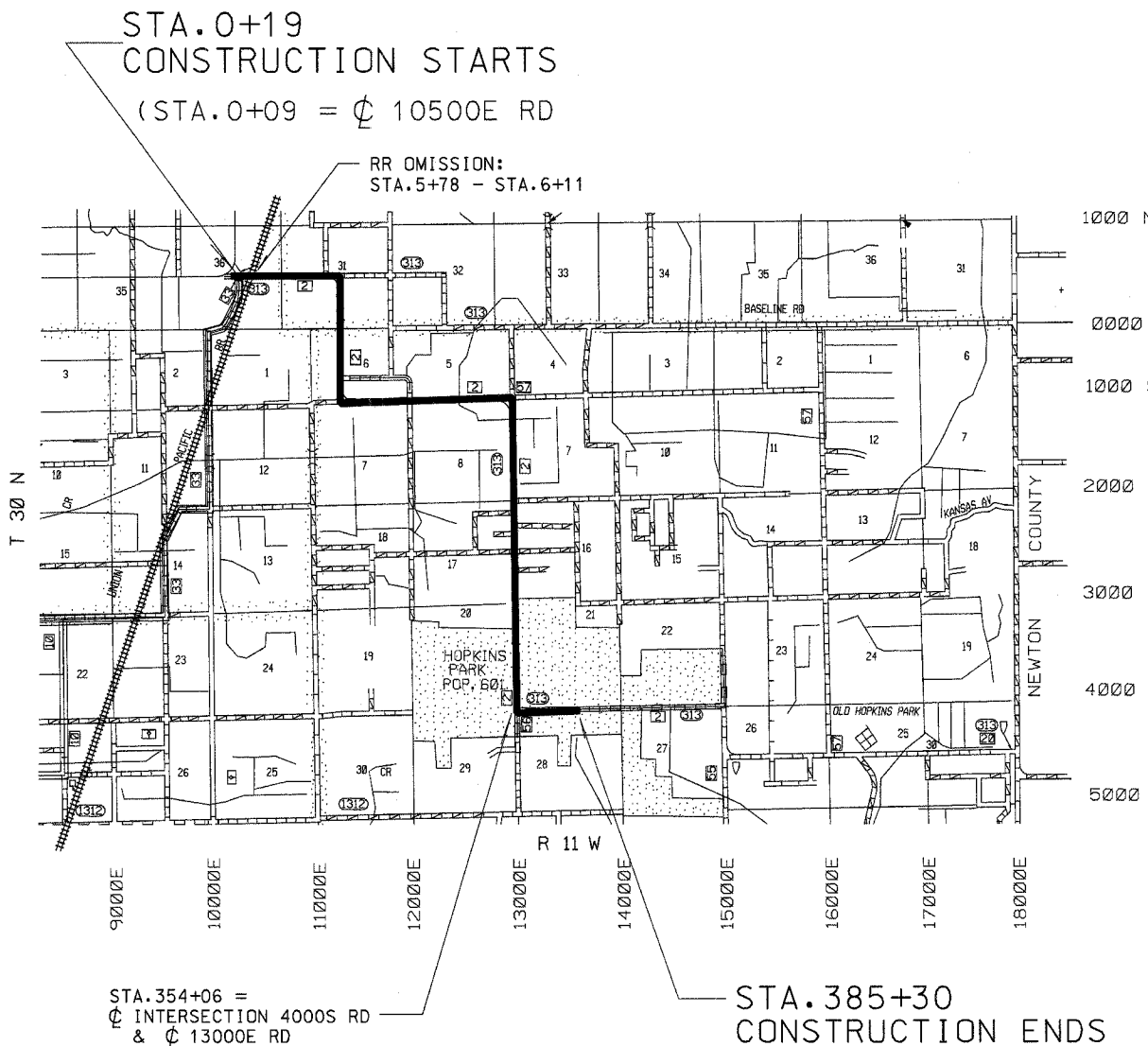
| F.A.S. ROUTE NO.              | SEC. | COUNTY   | NO. SHEETS         | SHEET NO. |
|-------------------------------|------|----------|--------------------|-----------|
| 313                           | *    | Kankakee | 4                  | 1         |
| ILLINOIS PROJECT RS-313 (106) |      |          | CONTRACT NO. 87323 |           |

\* 04-00234-01-RS  
04-00235-01-RS

KANKAKEE COUNTY



PROJECT LOCATION



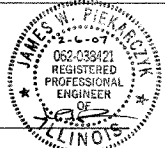
THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR LOCAL AGENCY PAVEMENT PRESERVATION POLICY (LAPP) PROJECTS

CLASS II ROAD  
2006 CURRENT A.D.T. = 2550  
2016 DESIGN A.D.T. = 2818  
DESIGN SPEED = 55 M.P.H.  
ROADWAY CLASSIFICATION = COLLECTOR

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Approved 2-6 2007

JAMES W. PIEKARCZYK, P.E.  
KANKAKEE COUNTY ENGINEER



Passed 02-13 2007

KENNETH ROANG  
BUREAU CHIEF, LOCAL ROADS & STREETS

Releasing for Bid Based on Limited Review 02-15 2007

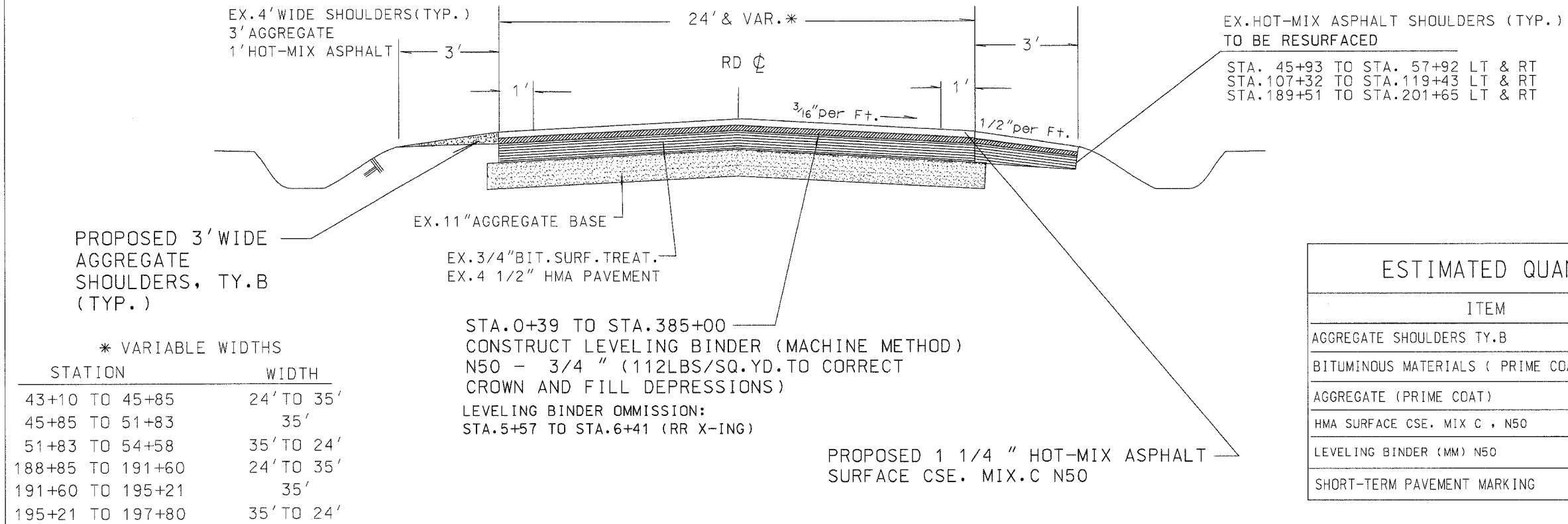
DIANE O'KEEFE  
REGION 2 ENGINEER

GROSS LENGTH = 38,511 LIN FT = 7.294 MILES

|                                  |          |              |           |
|----------------------------------|----------|--------------|-----------|
| SECTION                          | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 04-00234-01-RS<br>04-00235-01-RS | KANKAKEE | 4            | 2         |
| CONTRACT NO. 87323               |          |              |           |

# TYPICAL CROSS SECTION

STA. 0+09 TO STA. 385+30



| ITEM                                | UNIT   | QUANTITY |
|-------------------------------------|--------|----------|
| AGGREGATE SHOULDERS TY.B            | TON    | 3335     |
| BITUMINOUS MATERIALS ( PRIME COAT ) | GALLON | 10687    |
| AGGREGATE (PRIME COAT)              | TON    | 213      |
| HMA SURFACE CSE. MIX C , N50        | TON    | 7487     |
| LEVELING BINDER (MM) N50            | TON    | 5987     |
| SHORT-TERM PAVEMENT MARKING         | FOOT   | 7698     |

STA. 0+39 TO STA. 385+00  
 CONSTRUCT LEVELING BINDER (MACHINE METHOD)  
 N50 - 3/4 \" (112LBS/SQ.YD. TO CORRECT  
 CROWN AND FILL DEPRESSIONS)  
 LEVELING BINDER OMISSION:  
 STA. 5+57 TO STA. 6+41 (RR X-ING)

PROPOSED 1 1/4 \" HOT-MIX ASPHALT  
 SURFACE CSE. MIX. C N50

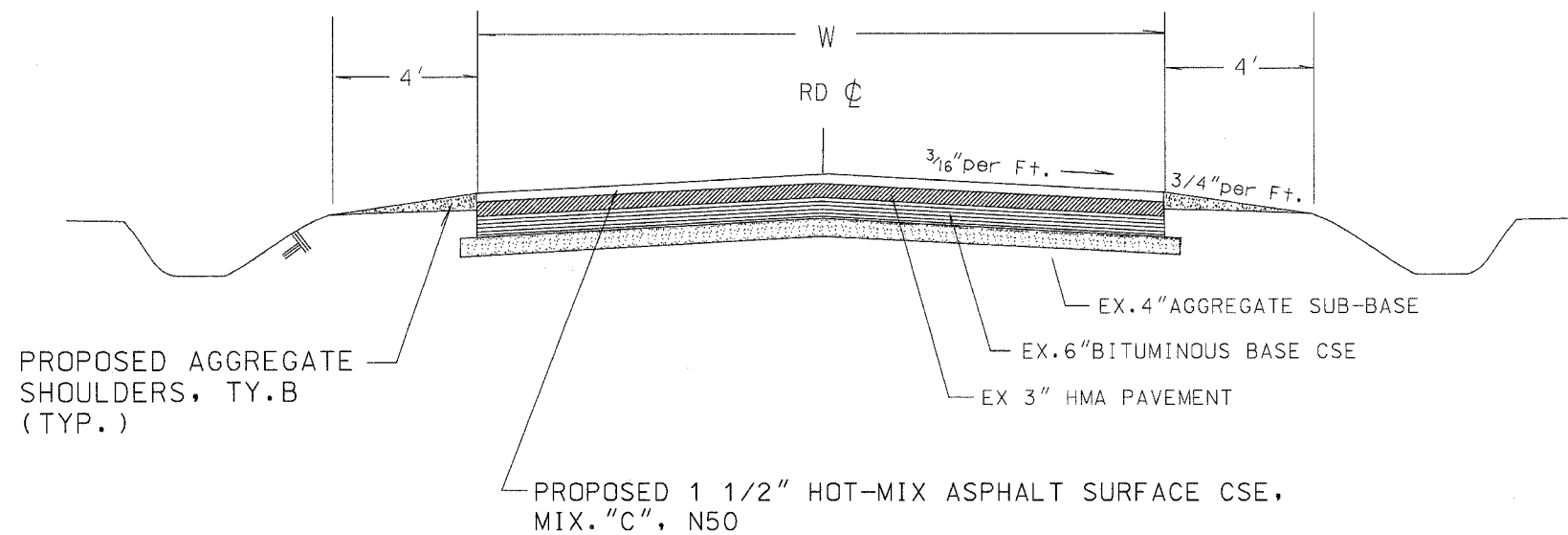
\* VARIABLE WIDTHS

| STATION          | WIDTH      |
|------------------|------------|
| 43+10 TO 45+85   | 24' TO 35' |
| 45+85 TO 51+83   | 35'        |
| 51+83 TO 54+58   | 35' TO 24' |
| 188+85 TO 191+60 | 24' TO 35' |
| 191+60 TO 195+21 | 35'        |
| 195+21 TO 197+80 | 35' TO 24' |

# TYPICAL CROSS SECTION - SIDE ROADS

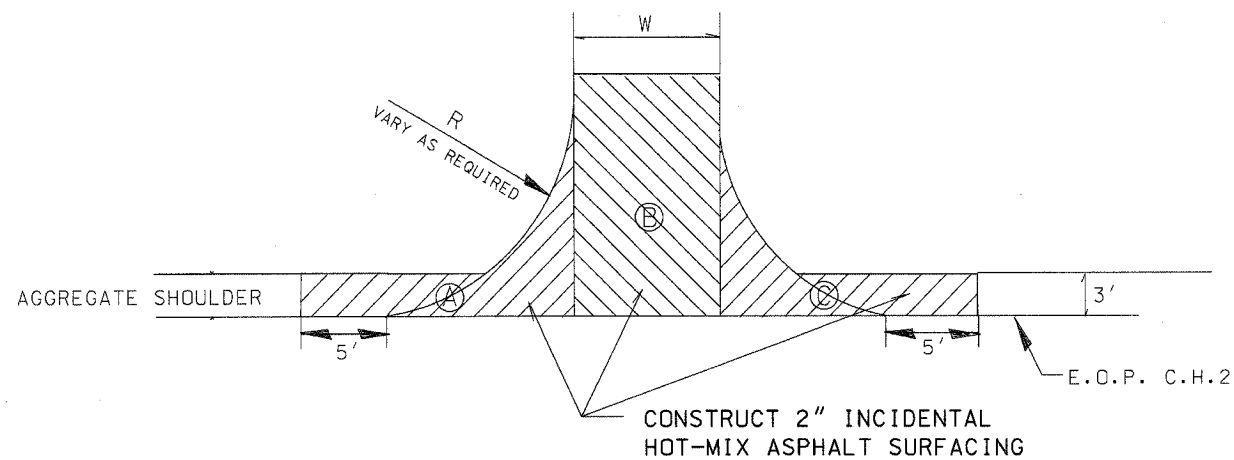
STA. 51+35LT - 0500N RD  
 STA. 114+50RT - 1000S RD  
 STA. 194+65LT - 1000S RD

| STATION  | LENGTH | WIDTH | HMA SC<br>MIX C, N50 | BIT MATRLS<br>PR CT | AGGREGATE<br>PR CT | AGG SHLDERS | SH TR PAVT<br>MARKING |
|----------|--------|-------|----------------------|---------------------|--------------------|-------------|-----------------------|
| 51+35LT  | 440'   | 20'   | 92 TON               | 97 GAL              | 2 TON              | 32 TON      | 44 FOOT               |
| 114+50RT | 525'   | 20'   | 108                  | 117                 | 2                  | 38          | 52                    |
| 194+65LT | 450'   | 22'   | 102                  | 110                 | 2                  | 32          | 45                    |
|          |        |       | 302 TON              | 324 GAL             | 6 TON              | 72 TON      | 141 FOOT              |



PROPOSED 1 1/2 \" HOT-MIX ASPHALT SURFACE CSE.  
 MIX. \"C\", N50

# INTERSECTION DETAIL



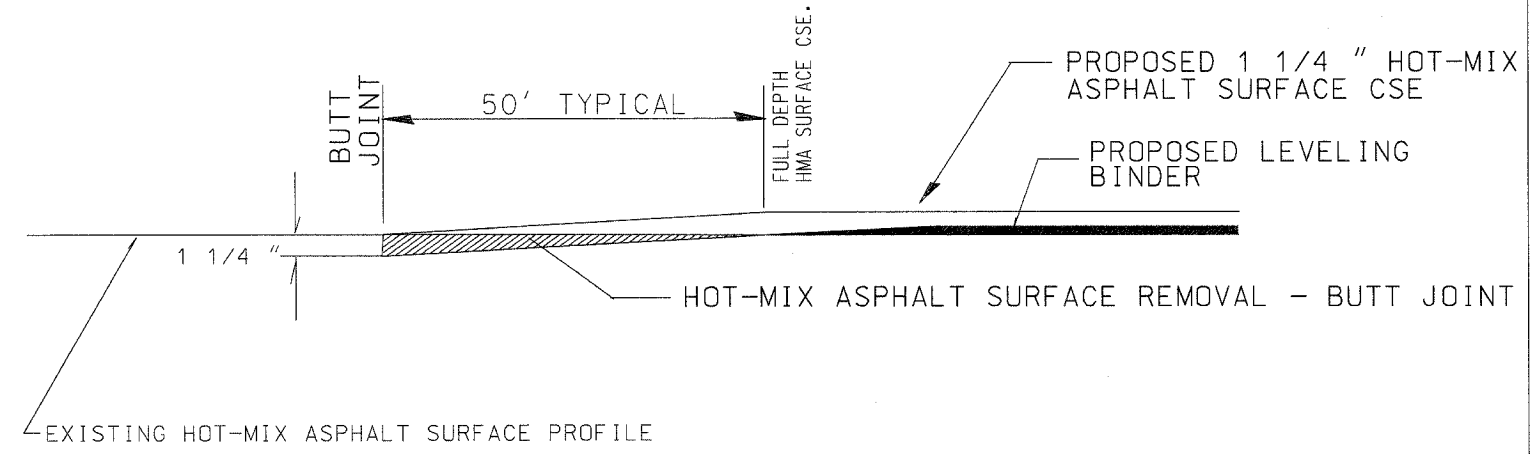
INTERSECTION QUANTITY SCHEDULE

| STATION              | AREA          | WIDTH | RADIUS | INCIDENTAL HMA SURFACING (TON) | BIT. MATRLS. (PRIME COAT) (GAL) | AGGREGATE (PRIME COAT) (TON) | LOCATION              |
|----------------------|---------------|-------|--------|--------------------------------|---------------------------------|------------------------------|-----------------------|
| 46+54LT              | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 11380E                |
| 102+65LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 0750S                 |
| 144+08LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 12000E                |
| 144+08RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 12000E                |
| 247+13LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 2000E                 |
| 252+96RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 2110S                 |
| 260+90LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 2260S                 |
| 263+48RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 2310S                 |
| 273+80LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 2500S                 |
| 273+83RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 2500S                 |
| 281+90LT TO 282+92LT | 6' W x 102' L |       |        | 8                              | 5                               | 0.5                          | CITGO SERVICE STATION |
| 283+54LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 2690S                 |
| 300+49LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 3000S                 |
| 313+99RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 3250S                 |
| 327+20LT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | SPINNING WHEEL RD     |
| 354+06RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 4000S                 |
| 354+06RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 13000E                |
| 382+99RT             | A B C         | 20    | 30     | 15                             | 5                               | 0.5                          | 13500E                |
| TOTALS               |               |       |        | 263 TON                        | 90 GAL                          | 9 TON                        |                       |

NOTE: INTERSECTING SIDE ROADS AT STA. 51+35LT - 0500N RD  
 STA. 114+50RT - 1000S RD  
 STA. 194+65LT - 1000S RD  
 ARE INCLUDED IN TANGENT SCHEDULE

|                                  |          |              |           |
|----------------------------------|----------|--------------|-----------|
| SECTION                          | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 04-00234-01-RS<br>04-00235-01-RS | KANKAKEE | 4            | 3         |
| CONTRACT NO. 87323               |          |              |           |

# PAVEMENT REMOVAL DETAILS



HOT-MIX ASPHALT SURFACE REMOVAL AND TEMPORARY RAMP SCHEDULE

| STATION                                       | HMA SURFACE REM - BUTT JOINT | TEMPORARY RAMP (3' Wide) | HMA SURFACE REM - 1 1/4" |
|---|------------------------------|--------------------------|--------------------------|
| 0+09  | 157                          | 8                        |                          |
| 5+87 (RR X-ING)                               | 80                           | 8                        |                          |
| 6+11 (RR X-ING)                               | 80                           | 8                        |                          |
| 46+54LT                                       | 73                           | 7                        |                          |
| 102+65LT                                      | 73                           | 7                        |                          |
| 281+90LT TO 282+92LT<br>CITGO SERVICE STATION |                              |                          | 68                       |
| 385+30  | 80                           | 8                        |                          |
| TOTALS  | 543 SQ YD                    | 46 SQ YD                 | 68 SQ YD                 |

|                       | LEVEL BINDER          | HOT-MIX ASPHALT SURFACE CSE |
|-----------------------|-----------------------|-----------------------------|
| PG GRADE              | PG58-22               | PG58-22                     |
| MAX % RAP ALLOWABLE** | SEE SPECIAL PROVISION | SEE SPECIAL PROVISION       |
| DESIGN AIR VOIDS      | 4.0%                  | 4.0%                        |
| MIXTURE COMPOSITION   | IL 9.5                | IL 9.5                      |
| FRICTION AGGREGATE    | MIXTURE C             | MIXTURE C                   |
| PLANT CONTROL LIMITS  | CLASS I               | CLASS I                     |
| DENSITY TEST METHOD   | ---                   | % OF GROWTH CURVE           |

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

# Pavement Design Data

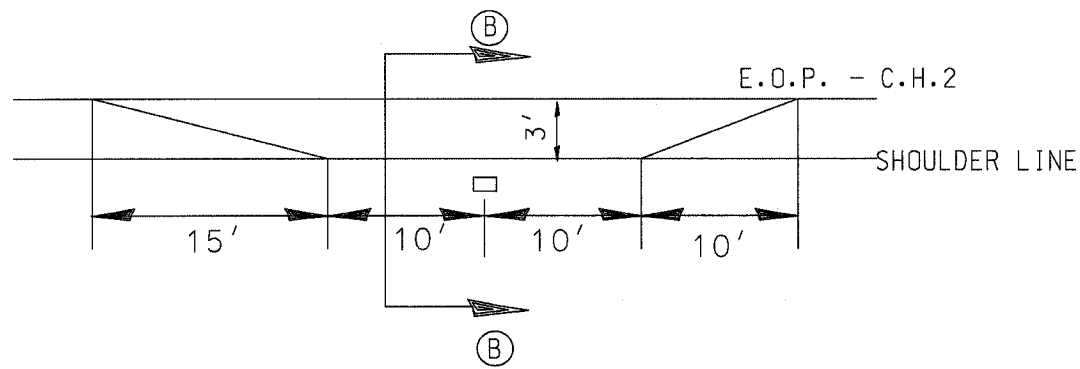
Design Period = 20 Years  
 ADT = 2550 (2006) 2818 (2016)  
 P.V. = 88 = 2480 S.U. = 7 % = 197 M.U. = 5 % = 141  
 T.F. = 0.77  
 Dt = 2.90

Pavement Structure Number

|                                  |      |          |             |
|----------------------------------|------|----------|-------------|
| Ex. 11" AGGREGATE BASE (crushed) | 11   | x 0.08 = | 0.88        |
| Ex. 3/4" BIT SURFACE TREATMENT   | 0.75 | x 0.15 = | 0.11        |
| Ex. 1 1/2" CLASS I               | 1.50 | x 0.23 = | 0.35        |
| Ex. 3" CLASS I                   | 3    | x 0.30 = | 0.90        |
| Prop. 2" HMA Surface Cse.        | 2    | x 0.40 = | 0.80        |
|                                  |      |          | <u>3.04</u> |

Marshall Stability ≥ 1700

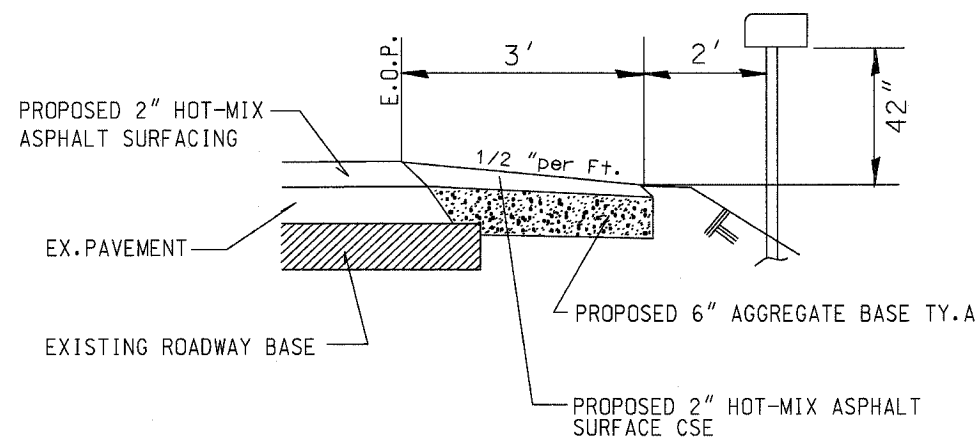
# TYPICAL MAILBOX TURNOUT DETAIL



| MAILBOX TURNOUTS TO BE CONSTRUCTED |      |         |      |
|------------------------------------|------|---------|------|
| STATION                            | SIDE | STATION | SIDE |
| 252+96                             | RT   | 300+62  | RT   |
| 256+60                             | RT   | 306+85  | RT   |
| 257+82                             | RT   | 308+62  | RT   |
| 281+19                             | RT   | 324+98  | RT   |
| 287+99                             | RT   | 333+43  | RT   |
| 288+26                             | RT   | 346+68  | RT   |
| 291+48                             | RT   |         |      |
| 295+07                             | RT   |         |      |

NOTE: MBTO'S PREVIOUSLY CONSTRUCTED SHALL RECEIVE HOT-MIX ASPHALT SURFACING ONLY.

## SECTION B-B

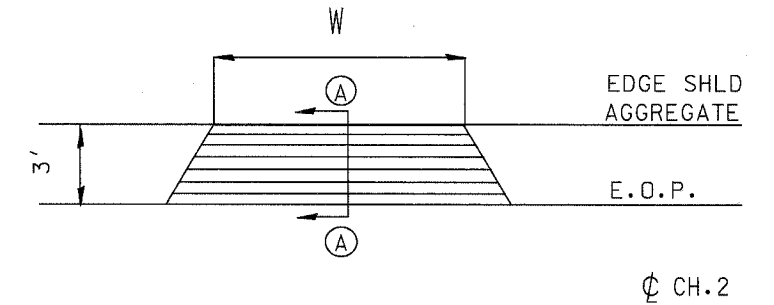


| ESTIMATED QUANTITIES - 98 MAILBOX TURNOUTS |       |          |
|--|-------|----------|
| ITEM                                       | UNIT  | QUANTITY |
| EARTH EXCAVATION                           | CU YD | 35       |
| AGG. BASE CSE. , TY. A                     | TON   | 72       |
| BIT. MATERIALS ( PRIME COAT )              | GAL   | 147      |
| HOT-MIX ASPHALT SURFACE CSE. MIX C , N50   | TON   | 196      |

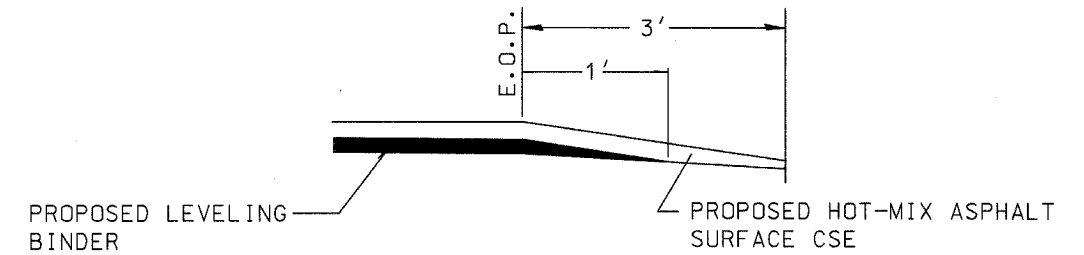
| SECTION            | COUNTY   | TOTAL SHEETS | SHEET NO. |
|--------------------|----------|--------------|-----------|
| 04-00234-01-RS     | KANKAKEE | 4            | 4         |
| 04-00235-01-RS     |          |              |           |
| CONTRACT NO. 87323 |          |              |           |

# TYPICAL ENTRANCE DETAIL

W :WIDTH OF APPROACH PADS IS ESTIMATED AT 20' PER ENTRANCE . THE ACTUAL CONSTRUCTED WIDTH MAY VARY AS DIRECTED BY THE ENGINEER TO FIT THE EXISTING ENTRANCES .  
FIELD ENTRANCES AND PRIVATE AGGREGATE SURFACED ENTRANCES SHALL NOT RECEIVE HOT-MIX ASPHALT SURFACING



## SECTION A-A



| ESTIMATED QUANTITIES- 25 ENTRANCES      |      |          |
|---|------|----------|
| ITEM                                    | UNIT | QUANTITY |
| BITUMINOUS MATERIALS ( PRIME COAT )     | GAL  | 25       |
| LEVELING BINDER (MM) N50                | TON  | 8        |
| HOT-MIX ASPHALT SURFACE CSE MIX "C" N50 | TON  | 25       |

## GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UTILITY LOCATIONS .
2. PERMANENT PAVEMENT MARKINGS TO BE INSTALLED BY THE KANKAKEE COUNTY HIGHWAY DEPT.
3. FLAGMEN SHALL BE REQUIRED DURING PRIMING OPERATIONS.
4. "BUMP SIGNS" SHALL BE REQUIRED AT ALL TANGENT HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT LOCATIONS. THE COST SHALL BE CONSIDERED AS INCLUDED IN THE TRAFFIC CONTROL PAY ITEM.