

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
**PLANS FOR
 PROPOSED LOCAL AGENCY IMPROVEMENT
 STR PROJECT**

| ROUTE | SECTION | COUNTY | Total Sheets | Sheet No. |
|---------|----------------|--------|--------------|-----------|
| FAS 408 | 01-00090-03-RS | WARREN | 2 | 1 |

PROJECT NO. RS-408(103)
 CONTRACT NO. 89336

INDEX OF SHEETS

- COVER SHEET
- SUMMARY OF QUANTITIES, TYPICAL CROSS SECTION OF ROADWAY, ENTRANCE, INTERSECTION, AND BUTT JOINT DETAILS

LIST OF STANDARDS (see proposal)

- 701001-01 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701006-02
- 701011-01
- 701201-02
- 701301-02
- 701306-01
- 701311-02
- 702001-05
- 780001-01 TYPICAL PAVEMENT MARKINGS
- BLR 24-1 MAILBOX TURNOUT FOR LOCAL ROADS

DESIGN CRITERIA

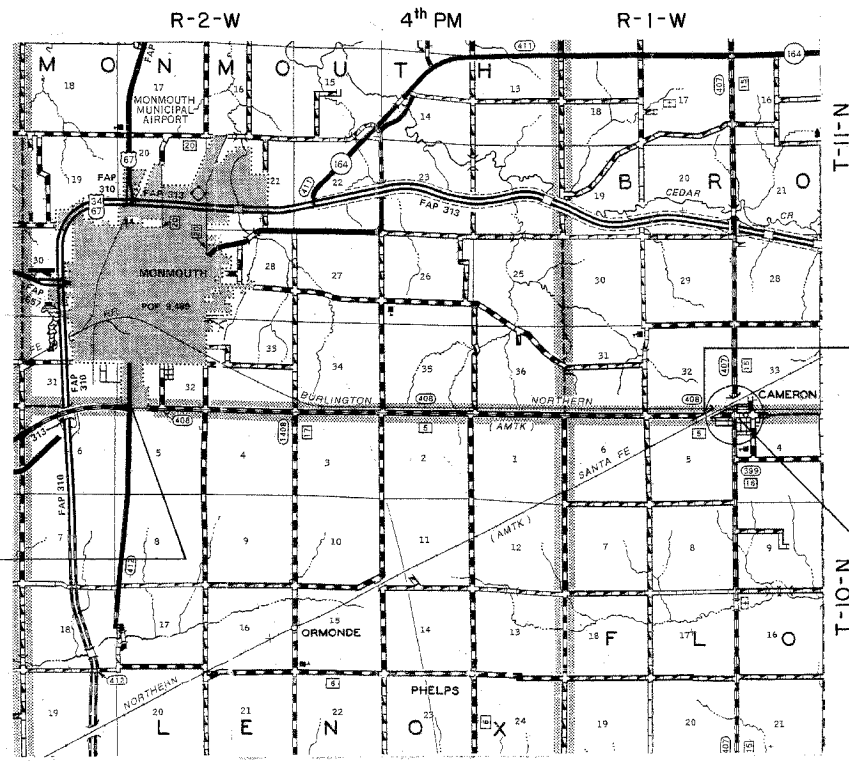
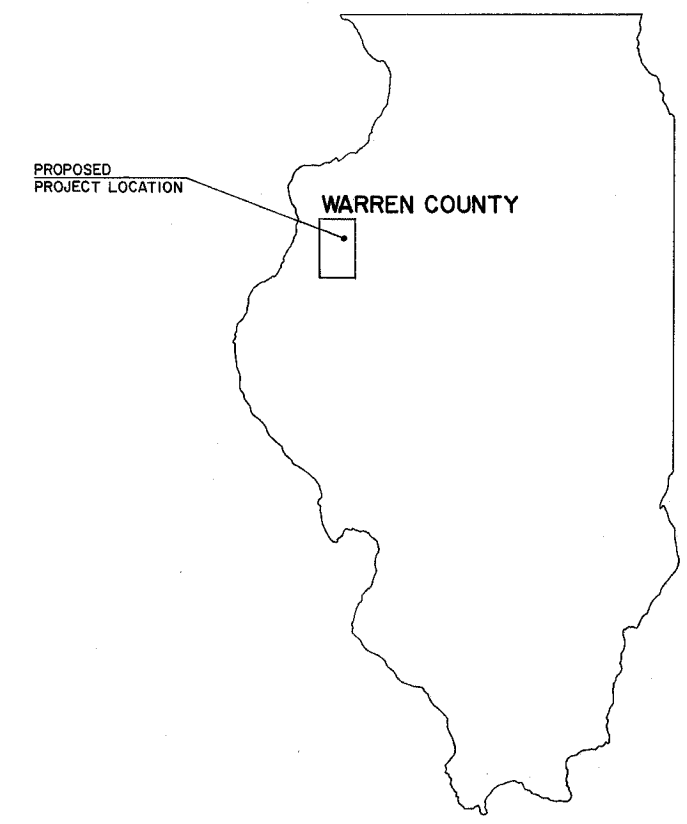
- MIN. ROW 60'
- MAX. GRADE
- MIN. S.D.
- DESIGN SPEED 50 M.P.H.
- CURRENT A.D.T. 1700 (2000)
- FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR 3R GUIDELINES

**QC/QA BITUMINOUS
 SUPERPAVE PROJECT**

JOB NO. C-94-075-04
 CONTRACT NO. 89336

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

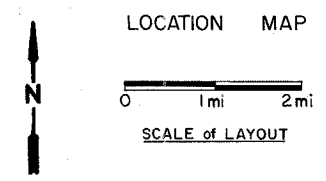
F.A.S. ROUTE 408 SECTION 01-00090-03-RS
 PROJECT RS-408(103)



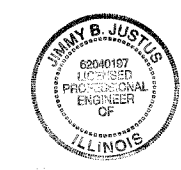
PROPOSED IMPROVEMENT
 BEGINS STA. 0+16

OMISSION at BNSF VIADUCT
 STA. 349+60 to STA. 353+60

PROPOSED IMPROVEMENT
 ENDS STA. 369+60



TOTAL LENGTH OF SECTION: 36,944.00' = 6.997 Miles
 NET LENGTH OF IMPROVEMENT: 36,544.00' = 6.921 Miles



LICENSE EXPIRES 11-30-05
 DATE

THESE PLANS WERE PREPARED BY ME OR A FULL TIME MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.

Jimmy B. Justus 4/6/05
 JIMMY B. JUSTUS, P.E. 062-040197 DATE
 COUNTY ENGINEER

| | | |
|---|--------------------------|--|
| APPROVED | <i>April 16</i> | 2005 |
| | <i>Jim Justus</i> | COUNTY ENGINEER |
| APPROVED | | 2005 |
| | | ROAD COMMISSIONER |
| PASSED | <i>April 14</i> | 2005 |
| | <i>d. Scott La Halle</i> | DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS |
| Releasing For Bid Based on Limited Review | <i>April 15</i> | 2005 |
| | <i>[Signature]</i> | DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER |
| | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION |

SUMMARY OF QUANTITIES

| ROUTE | SECTION | COUNTY | Total Sheets | Sheet No. |
|---------------------------|----------------|--------|--------------|-----------|
| FAS 408 | 01-00090-03-RS | WARREN | 2 | 2 |
| PROJECT NO. RS - 408(103) | | | | |

CONTRACT NO. 89336

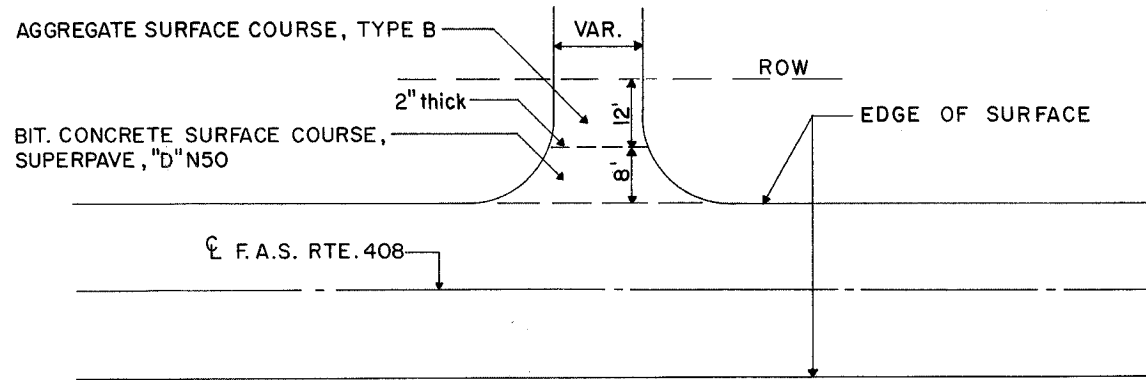
CONSTRUCTION CODE: I000

| CODE NO. | ITEM | UNIT | QUANT. |
|----------|--|---------|--------|
| 40200800 | AGGREGATE SURFACE COURSE, TYPE B | TON | 370 |
| 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GALS. | 3,000 |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 50 |
| 40600980 | BITUMINOUS SURFACE REMOVAL - BUTT JOINT | SQ. YD. | 440 |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 2,520 |
| 70101700 | TRAFFIC CONTROL AND PROTECTION | L.SUM | 1 |
| 70300100 | SHORT - TERM PAVEMENT MARKING | FOOT | 3,700 |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ. FT. | 1,240 |
| 78008210 | POLYUREA PAVEMENT MARKING, TYPE 1 -- LINE 4" | FOOT | 90,140 |
| X4066424 | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D" N50 | TON | 10,600 |
| X4067100 | POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL 4.75, N50 | TON | 3,750 |

POLYUREA PAVEMENT MARKING BREAKDOWN

| | |
|------------------------|--------------------|
| 4" Yellow - Centerline | 17,020 Feet |
| 4" White - Edge Stripe | 73,120 Feet |
| TOTAL | 90,140 Feet |

ENTRANCE DETAIL



74 ENTRANCES AT 5 TONS = 370 TONS AGG SURF. CSE., TY. B
 74 ENTRANCES AT 5 TONS = 370 TONS SUPERPAVE, "D" N50
 15 MAILBOX TURNOUTS AT 3 TONS = 45 TONS SUPERPAVE, "D" N50

Rate of application for Prime Coat: Bituminous Material - 0.10 gals./sq. yd.
 Aggregate - 4 lbs./sq. yd.

PAVEMENT DESIGN DATA

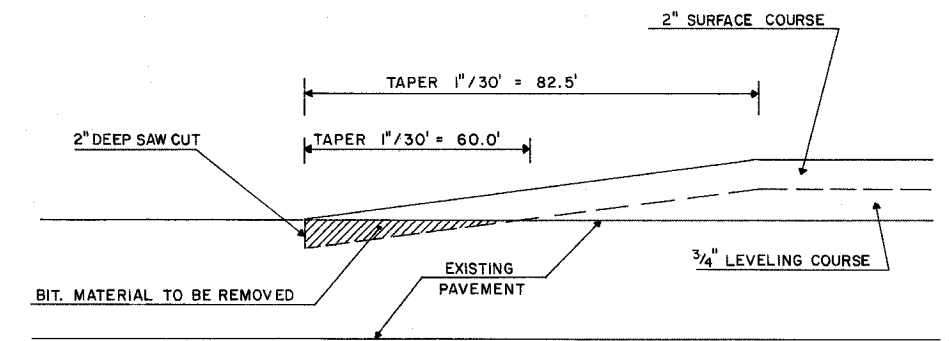
S.D.T. (2013) 1992 v.p.d. 15 Yr D.P.
 T.F. 0.121
 D_t 2.96
 IBR 3.0
 (P.V. 96.5%, S.U. 2%, M.U. 1.5%)

BITUMINOUS MIXTURE REQUIREMENTS

| Mixture Use(s) | Surface Course | Leveling Binder |
|---------------------|------------------------------|-----------------|
| AC/PG | 64-22 | SBS 76-28 |
| RAP% | 15% | 0% |
| Design Air Voids | 4.2% @ N _{max} = 50 | 2.5% @ N=50 |
| Mixture Composition | IL 9.5 or IL 12.5 | IL 4.75 |
| Friction Aggregate | Mixture "D" | N/A |

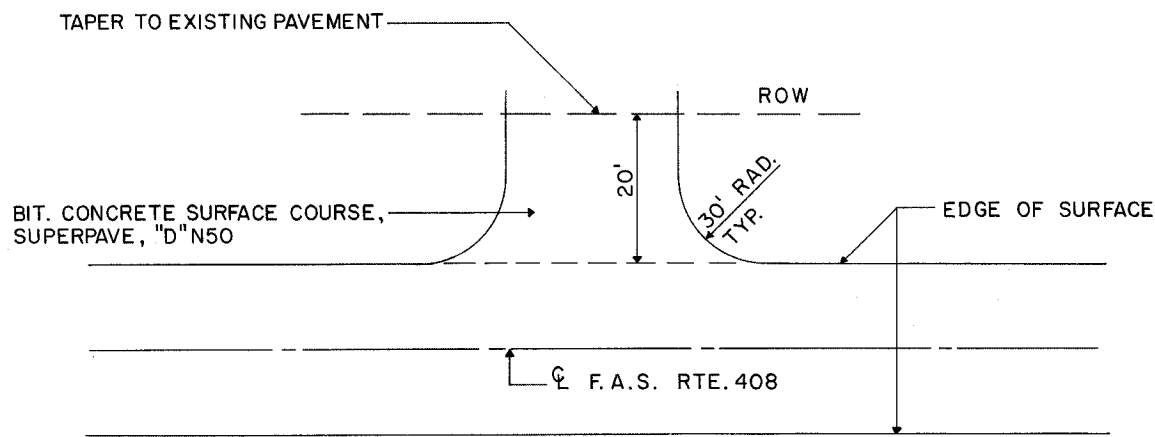
BUTT JOINT DETAIL

Stations
 0 + 00
 349 + 60
 353 + 60



NOT TO SCALE

INTERSECTION DETAIL



16 INTERSECTIONS AT 10 TONS
 TOTAL = 160 TONS

TYPICAL CROSS SECTION

