

62430

| F.A.P. RTE. | SECTION  | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------|--------|--------------|-----------|
| 350         | 3321-1RS | COOK   | 24           | 1         |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

D-91-149-02

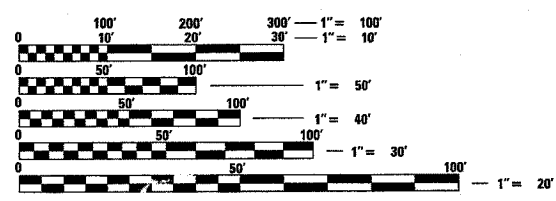


LOCATION OF SECTION INDICATED THIS: - ■ -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

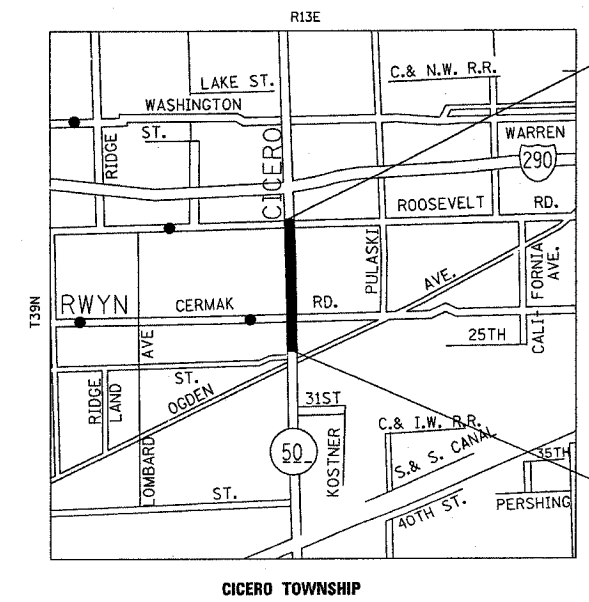
IMPROVEMENT IS LOCATED IN THE VILLAGE OF CICERO

F.A.P. ROUTE 350 (IL. ROUTE 50)  
SECTION: 3321-1RS  
ROOSEVELT RD. TO NORTH OF OGDEN AVE.  
RESURFACING (MAINTENANCE)  
COOK COUNTY  
C-91-149-02



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

OMISSION:  
STA 582+39.7 TO 583+29.5  
STA 603+63 TO 607+71



IMPROVEMENT ENDS  
STA 639+23

TRAFFIC DATA  
2002 ADT = 34600  
SPEED LIMIT = 30-35 MPH

IMPROVEMENT BEGINS  
STA 560+87

GROSS LENGTH OF IMPROVEMENT = 7836 FT (1.48 MILES)  
NET LENGTH OF IMPROVEMENT = 7738 FT (1.47 MILES)

SCALE  
NO SCALE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 25, 2005  
Debra O'Keefe, P.E.  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 13, 2005  
Mike Hine, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2005  
Victor Moders, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

CONTRACT NO. 62430

DISTRICT 1 - DESIGN  
PLAN PREPARATION ENGINEERS: KEN ENG'ISSAM RAYYAN (847) 705-4240

13:28:05 03/24/2005

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|                       |          |                           |              |           |
|-----------------------|----------|---------------------------|--------------|-----------|
| F.A.P. RTE.           | SECTION  | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 350                   | 3321-1BS | COOK                      | 24           | 2         |
| STA. 560+87           |          | TO STA. 639+23            |              |           |
| FED. ROAD DIST. NO. - |          | ILLINOIS FED. AID PROJECT |              |           |

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF CICERO.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1 1/2") WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1") WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (4 MPH). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3") MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINTS AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHOULD CONTACT MS. SCOTT KUZNICKI, AREA TRAFFIC FIELD ENGINEER, AT 708-685-8386 PRIOR TO INSTALLING ANY PERMANENT PAVEMENT MARKING.

**STANDARDS**

| NUMBER    | STATE STANDARDS   |
|-----------|---|
| 000001-04 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                                |
| 442201-01 | CLASS C AND D PATCHES   |
| 604001-02 | FRAME AND LIDS, TYPE 1  |
| 604086-01 | FRAME AND GRATE, TYPE 23  |
| 701301-02 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS                                 |
| 701306-01 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS > 45 MPH |
| 701606-04 | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN                     |
| 701701-04 | URBAN LANE CLOSURE, MULTILANE INTERSECTION                                  |
| 702001-05 | TRAFFIC CONTROL DEVICES   |
| 780001-01 | TYPICAL PAVEMENT MARKINGS   |
| 886001    | DETECTOR LOOP INSTALLATIONS   |
| 886006    | TYPICAL LAYOUTS FOR DETECTION LOOP  |

**INDEX OF SHEETS**

| SHEET NO. | DESCRIPTION  |
|-----------|--|
| 1         | TITLE SHEET  |
| 2         | INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES |
| 3         | SUMMARY OF QUANTITIES                              |
| 4         | TYPICAL SECTIONS                                   |
| 5-8       | ROADWAY AND PAVEMENT MARKING PLANS                 |
| 9-14      | DETECTOR LOOP REPLACEMENT PLAN                     |
| 15-25     | DISTRICT DETAILS                                   |

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ILL 50 (CICERO)**  
**INDEX OF SHEETS**  
**STATE STANDARD & GENERAL NOTES**

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

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|                       |          |          |                 |           |
|-----------------------|----------|----------|-----------------|-----------|
| F.A.P. RTE.           | SECTION  | COUNTY   | TOTAL SHEETS    | SHEET NO. |
| 350                   | 3321:1BS | COOK     | 24              | 3         |
| FED. ROAD DIST. NO. 1 |          | ILLINOIS | HIGHWAY PROJECT |           |

| SUMMARY OF QUANTITIES |  |        | CONSTRUCTION TYPE CODE |            |  |  |  |  |
|-----------------------|--|--------|------------------------|------------|--|--|--|--|
| CODE NO               | ITEM   | UNIT   | TOTAL QUANTITIES       | URBAN      |  |  |  |  |
|                       |  |        |                        | 100% STATE |  |  |  |  |
|                       |  |        |                        | 1000-2A    |  |  |  |  |
| 40600200              | BITUMINOUS MATERIALS (PRIME COAT)                            | TON    | 24                     | 24         |  |  |  |  |
| 40600300              | AGGREGATE (PRIME COAT)                                       | TON    | 118                    | 118        |  |  |  |  |
| 40600400              | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS                   | TON    | 6                      | 6          |  |  |  |  |
| 40600895              | CONSTRUCTING TEST STRIP                                      | EACH   | 1                      | 1          |  |  |  |  |
| 40600980              | BITUMINOUS SURFACE REMOVAL - BUTT JOINT                      | SQ YD  | 539                    | 539        |  |  |  |  |
| 40601000              | BITUMINOUS REPLACEMENT OVER PATCHES                          | TON    | 380                    | 380        |  |  |  |  |
| 42001300              | PROTECTIVE COAT  | SQ YD  | 284                    | 284        |  |  |  |  |
| 44000008              | BITUMINOUS SURFACE REMOVAL 2 1/2"                            | SQ YD  | 55768                  | 55768      |  |  |  |  |
| 44000030              | BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)                  | SQ YD  | 4134                   | 4134       |  |  |  |  |
| 44001700              | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT | FOOT   | 1829                   | 1829       |  |  |  |  |
| 44201765              | CLASS D PATCHES, TYPE II, 10 INCH                            | SQ YD  | 525                    | 525        |  |  |  |  |
| 44201769              | CLASS D PATCHES, TYPE III, 10 INCH                           | SQ YD  | 425                    | 425        |  |  |  |  |
| 44201771              | CLASS D PATCHES, TYPE IV, 10 INCH                            | SQ YD  | 325                    | 325        |  |  |  |  |
| 60260100              | INLET TO BE ADJUSTED   | EACH   | 4                      | 4          |  |  |  |  |
| 60300310              | FRAME AND LIDS TO BE ADJUSTED (SPECIAL)                      | EACH   | 124                    | 124        |  |  |  |  |
| 60252800              | CATCH BASINS TO BE RECONSTRUCTED                             | EACH   | 4                      | 4          |  |  |  |  |
| 60257900              | MANHOLES TO BE RECONSTRUCTED                                 | EACH   | 4                      | 4          |  |  |  |  |
| 60404940              | FRAMES AND GRATES, TYPE 23                                   | EACH   | 95                     | 95         |  |  |  |  |
| 60406000              | FRAMES AND LIDS, TYPE 1, OPEN LID                            | EACH   | 43                     | 43         |  |  |  |  |
| 60406100              | FRAMES AND LIDS, TYPE 1, CLOSED LID                          | EACH   | 38                     | 38         |  |  |  |  |
| 67000400              | ENGINEER'S FIELD OFFICE, TYPE A                              | CAL MO | 6                      | 6          |  |  |  |  |
| 67100100              | MOBILIZATION   | L SUM  | 1                      | 1          |  |  |  |  |
| 70100460              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306              | L SUM  | 1                      | 1          |  |  |  |  |
| 70102625              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701606              | L SUM  | 1                      | 1          |  |  |  |  |
| 70102635              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701              | L SUM  | 1                      | 1          |  |  |  |  |
| 55039700              | STORM SEWERS TO BE CLEANED                                   | FOOT   | 2500                   | 2500       |  |  |  |  |

| SUMMARY OF QUANTITIES |   |        | CONSTRUCTION TYPE CODE |            |  |  |  |  |
|-----------------------|---|--------|------------------------|------------|--|--|--|--|
| CODE NO               | ITEM  | UNIT   | TOTAL QUANTITIES       | URBAN      |  |  |  |  |
|                       |   |        |                        | 100% STATE |  |  |  |  |
|                       |   |        |                        | 1000-2A    |  |  |  |  |
| 70103815              | TRAFFIC CONTROL SURVEILLANCE  | CAL DA | 15                     | 15         |  |  |  |  |
| 70300100              | SHORT-TERM PAVEMENT MARKING   | FOOT   | 8816                   | 8816       |  |  |  |  |
| 70300210              | TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS                        | SQ FT  | 1219                   | 1219       |  |  |  |  |
| 70300220              | TEMPORARY PAVEMENT MARKING - LINE 4"                                    | FOOT   | 24300                  | 24300      |  |  |  |  |
| 70300240              | TEMPORARY PAVEMENT MARKING - LINE 6"                                    | FOOT   | 4061                   | 4061       |  |  |  |  |
| 70300250              | TEMPORARY PAVEMENT MARKING - LINE 8"                                    | FOOT   | 400                    | 400        |  |  |  |  |
| 70300260              | TEMPORARY PAVEMENT MARKING - LINE 12"                                   | FOOT   | 350                    | 350        |  |  |  |  |
| 70300280              | TEMPORARY PAVEMENT MARKING - LINE 24"                                   | FOOT   | 811                    | 811        |  |  |  |  |
| 70301000              | WORK ZONE PAVEMENT MARKING REMOVAL                                      | SQ FT  | 1113                   | 1113       |  |  |  |  |
| * 78000100            | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS                    | SQ FT  | 1219                   | 1219       |  |  |  |  |
| * 78000200            | THERMOPLASTIC PAVEMENT MARKING - LINE 4"                                | FOOT   | 24300                  | 24300      |  |  |  |  |
| * 78000400            | THERMOPLASTIC PAVEMENT MARKING - LINE 6"                                | FOOT   | 4061                   | 4061       |  |  |  |  |
| * 78000500            | THERMOPLASTIC PAVEMENT MARKING - LINE 8"                                | FOOT   | 400                    | 400        |  |  |  |  |
| * 78000600            | THERMOPLASTIC PAVEMENT MARKING - LINE 12"                               | FOOT   | 350                    | 350        |  |  |  |  |
| * 78000650            | THERMOPLASTIC PAVEMENT MARKING - LINE 24"                               | FOOT   | 811                    | 811        |  |  |  |  |
| * 78100100            | RAISED REFLECTIVE PAVEMENT MARKER                                       | EACH   | 691                    | 691        |  |  |  |  |
| 78300200              | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL                               | EACH   | 691                    | 691        |  |  |  |  |
| * 88600600            | DETECTOR LOOP REPLACEMENT   | FOOT   | 3638                   | 3638       |  |  |  |  |
| X0322256              | TEMPORARY INFORMATION SIGNING   | SQ FT  | 154.2                  | 154.2      |  |  |  |  |
| X0322749              | BITUMINOUS REMOVAL OVER PATCHES   | SQ YD  | 1030                   | 1030       |  |  |  |  |
| X4066426              | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70             | TON    | 348                    | 348        |  |  |  |  |
| X4066548              | POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90 | TON    | 5551                   | 5551       |  |  |  |  |
| X4067100              | POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-4.75, N50    | TON    | 2336                   | 2336       |  |  |  |  |
| Z0018500              | DRAINAGE STRUCTURES TO BE CLEANED                                       | EACH   | 60                     | 60         |  |  |  |  |
| Z0048665              | RAILROAD PROTECTIVE LIABILITY INSURANCE                                 | L SUM  | 1                      | 1          |  |  |  |  |

\* SPECIALTY ITEMS

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

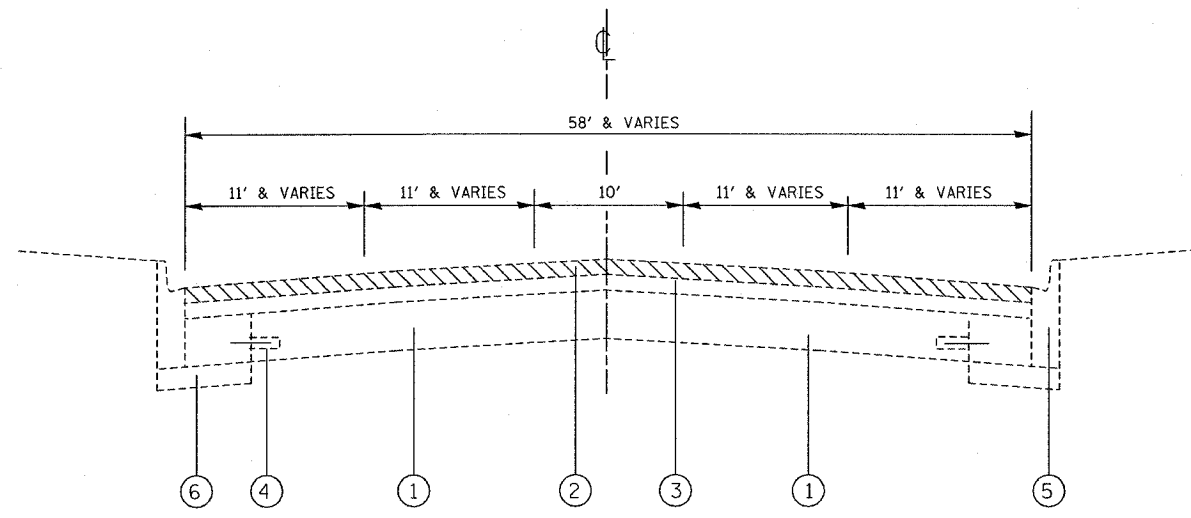
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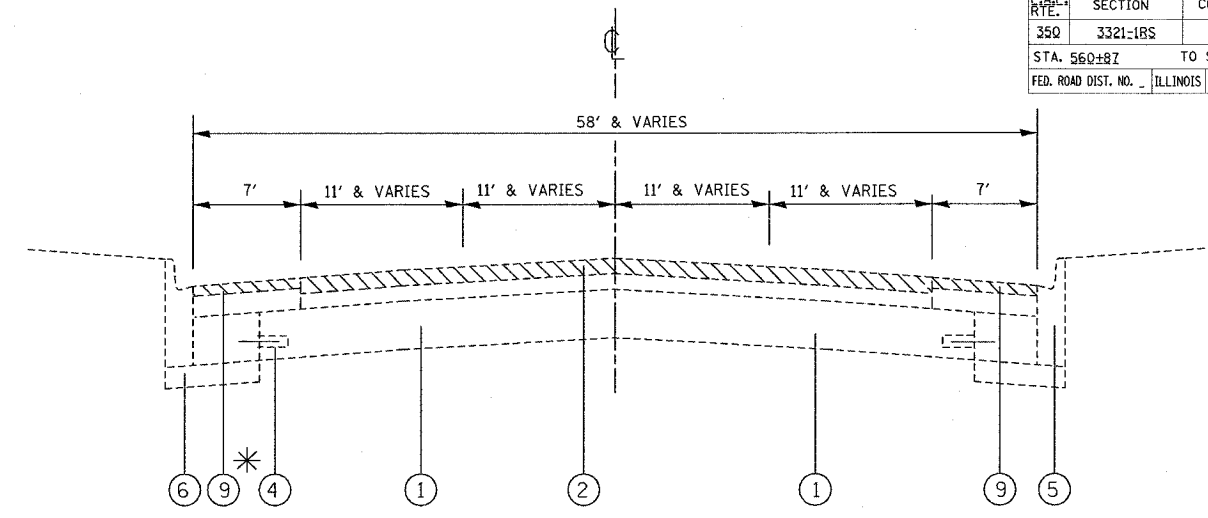
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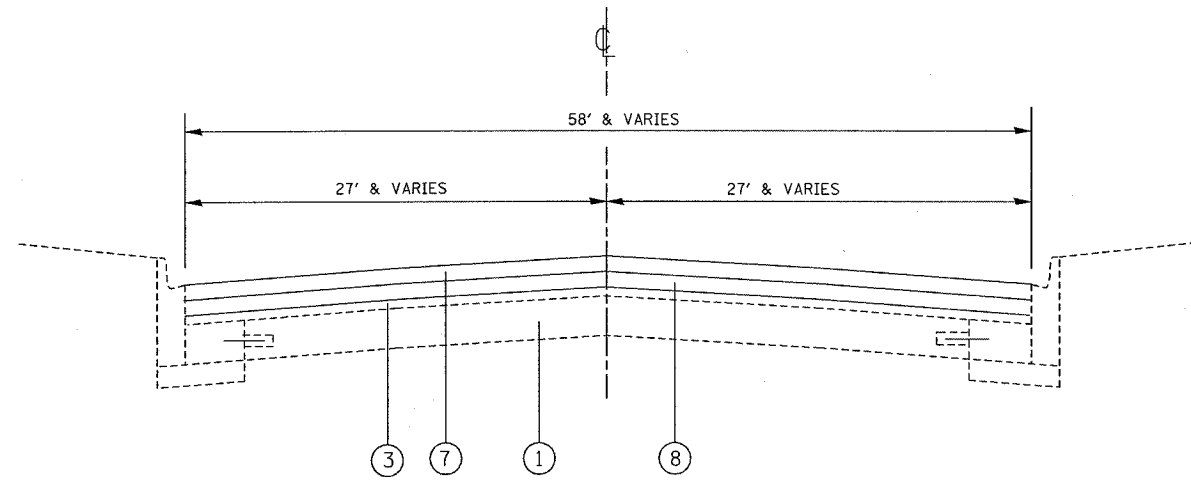
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| F.A.P. RTE.                                   | SECTION  | COUNTY         | TOTAL SHEETS | SHEET NO. |
| 350   | 3321-1BS | COOK           | 24           | 4         |
| STA. 560+87                                   |          | TO STA. 639+23 |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |          |                |              |           |



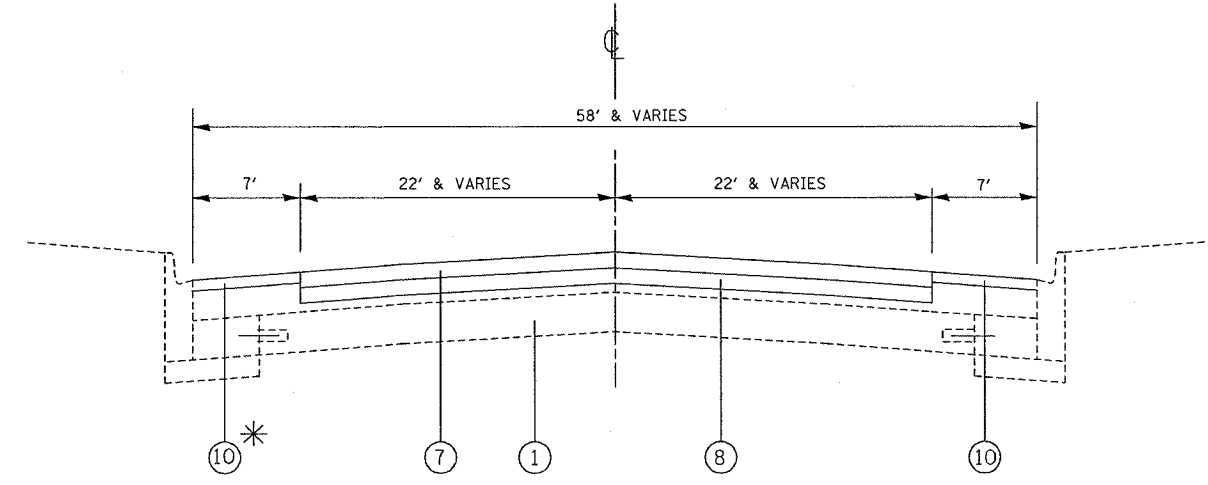
EXISTING TYPICAL SECTION:  
STATION 560+87 TO 584+24



EXISTING TYPICAL SECTION:  
STATION 584+24 TO 639+23



PROPOSED TYPICAL SECTION:  
STATION 560+87 TO 584+24



PROPOSED TYPICAL SECTION:  
STATION 584+24 TO 639+23

**LEGEND:**

1. EXIST. PCC BASE COURSE, 10"
2. PROP. BITUMINOUS SURFACE REMOVAL, 2 1/2"
3. EXIST. BITUMINOUS OVERLAY ± 3"
4. EXIST. EXPANSION TIE ANCHOR
5. EXIST. C & G TYPE B-6.12
6. EXIST. SUB-BASE GRAN MATERIAL TYPE B, 4"
7. PROP. POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"
8. PROP. POLY. LEVELING BINDER (MM) SUPERPAVE, IL-4.75, N50, 3/4"
9. PROP. MILLING VARIABLE DEPTH 1 1/2" TO 1"
10. PROP. BITUMINOUS CONCRETE SURFACE COURSE, MIX "D", N70, 1 1/2" TO 1"

| MIXTURE REQUIREMENTS  |                  |             |                  |
|---|------------------|-------------|------------------|
| MIXTURE USES  | AC / PG          | RAP % (MAX) | DESIGN AIR VOIDS |
| BIT. REPL. OVER PATCHES BINDER IL 19 MM                     | PG 64-22         | 15%         | 4% @ 70 GYR.     |
| POLYMERIZED BIT. CONC. SURFACE COURSE MIX "F" N90 SUPERPAVE | SBS/SBR PG 70-22 | 0 %         | 4% @ 90 GYR.     |
| POLY. LEVELING BINDER (MM) SUPERPAVE, IL-4.75, N50          | SBS/SBR PG 76-28 | 0 %         | 2.5 % @ 50 GYR.  |
| BIT. CONC. SURFACE COURSE MIX "D" N70 SUPERPAVE             | PG 64-22         | 10 %        | 4% @ 70 GYR.     |
| CLASS D PATCHES, BINDER IL-19, 10"                          | PG 64-22         | 15%         | 4% @ 70 GYR.     |

"THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN"

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ILLINOIS DEPARTMENT OF TRANSPORTATION

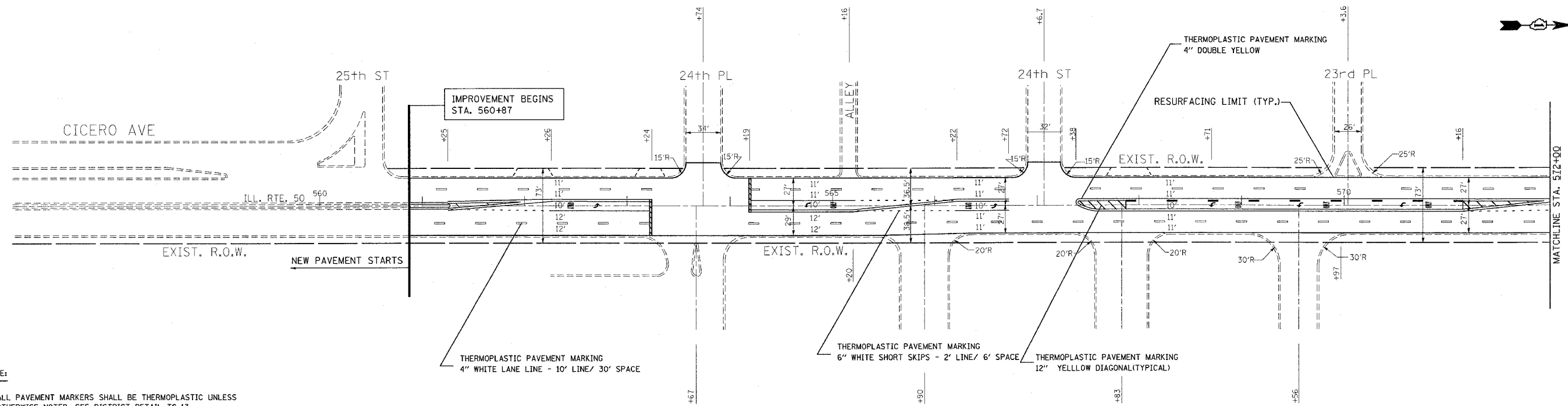
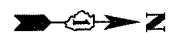
**TYPICAL SECTIONS**  
F.A.P. RTE. 350 (ILL. 50)

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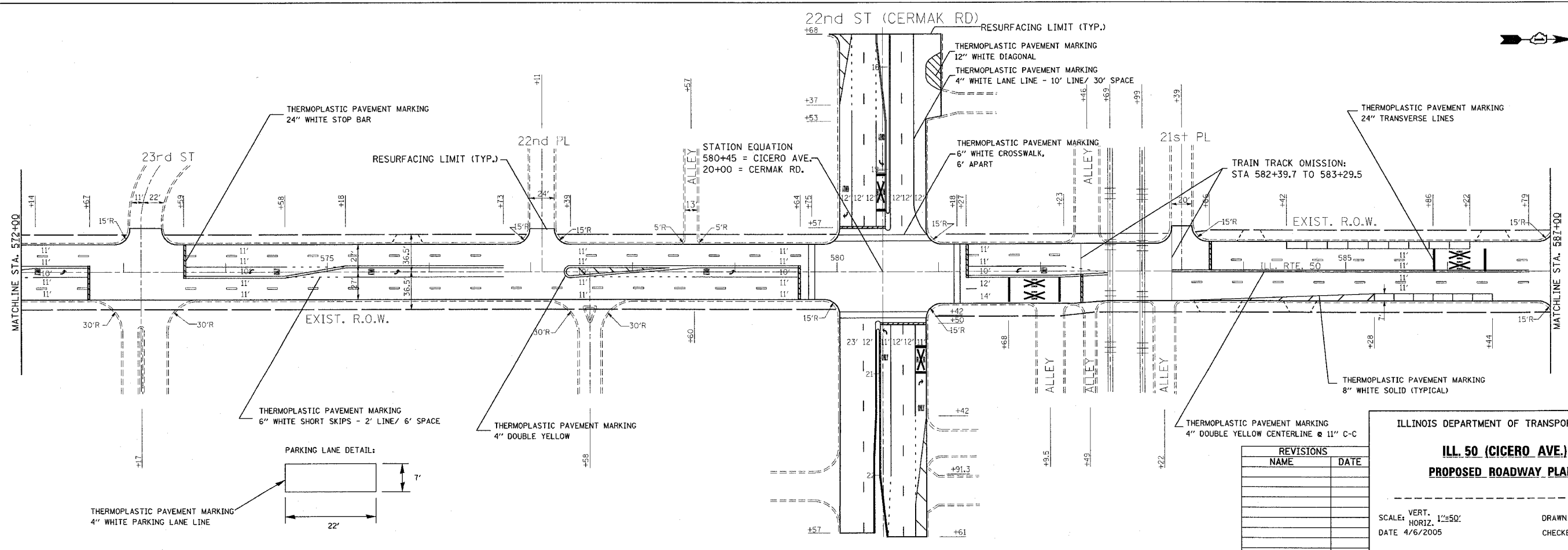
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| SECTION                    | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 3321-1BS                   | COOK     | 24               | 5         |
| STA. 560+87 TO STA. 587+00 |          |                  |           |
| FED. ROAD DIST. NO. 1      | ILLINOIS | FED. AID PROJECT |           |



**NOTE:**

1. ALL PAVEMENT MARKERS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SEE DISTRICT DETAIL TC-13
2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LANE LINE MARKERS SHALL BE INSTALLED. SEE DISTRICT DETAIL TC-11



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ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ILL. 50 (CICERO AVE.)**  
**PROPOSED ROADWAY PLANS**

SCALE: VERT. 1"=50'  
 DATE 4/6/2005

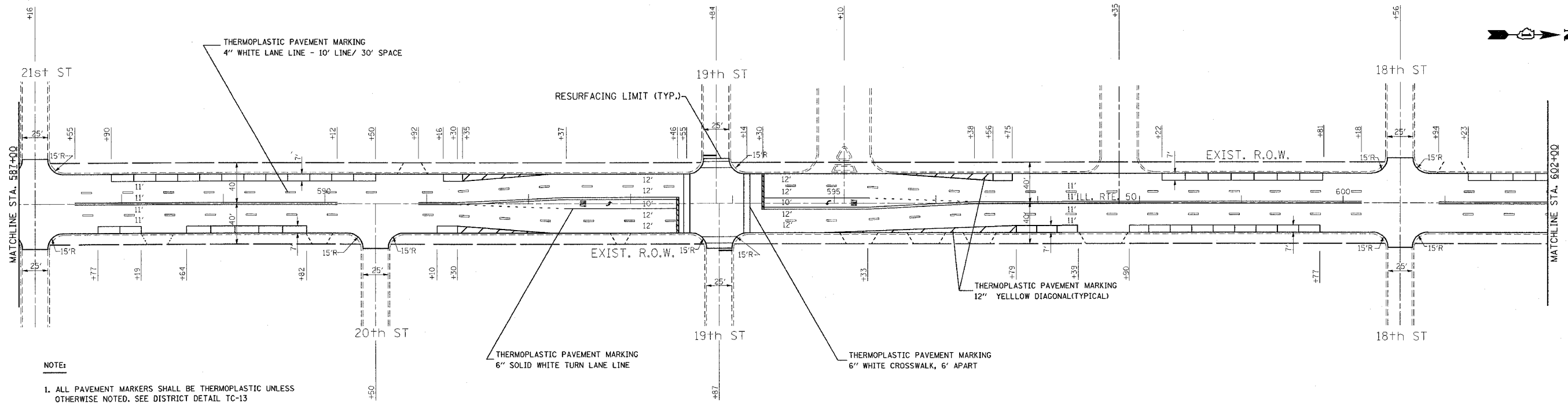
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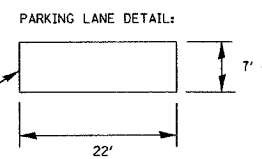
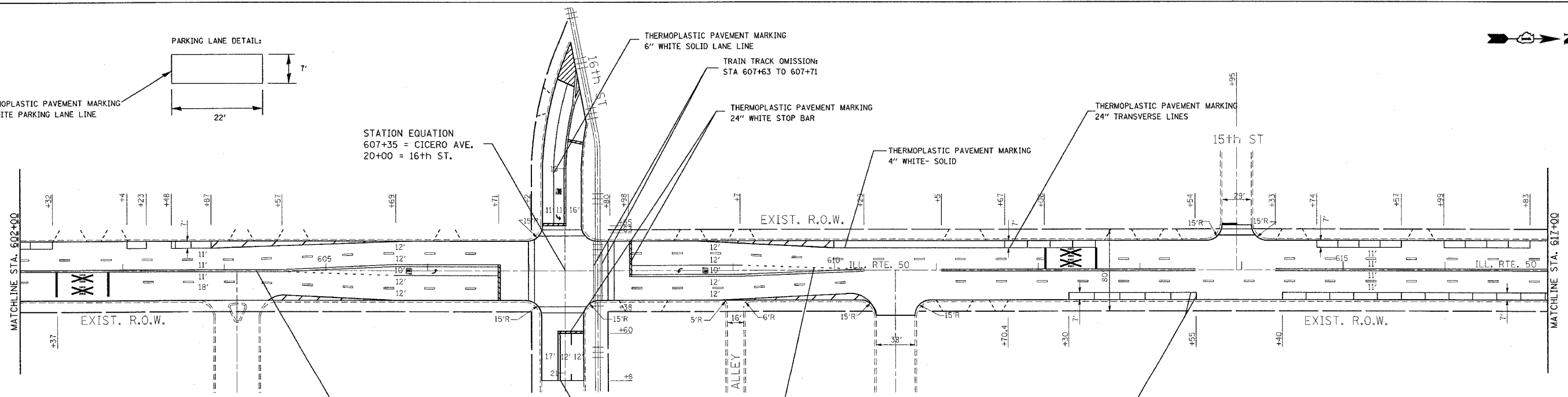
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|----------------------------|--------|------------------|-----------|
| SECTION                    | COUNTY | TOTAL SHEETS     | SHEET NO. |
| 350                        | COOK   | 24               | 6         |
| STA. 587+00 TO STA. 617+00 |        |                  |           |
| FED. ROAD DIST. NO. 1      |        | ILLINOIS         |           |
|                            |        | FED. AID PROJECT |           |



**NOTE:**

1. ALL PAVEMENT MARKERS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SEE DISTRICT DETAIL TC-13
2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LANE LINE MARKERS SHALL BE INSTALLED. SEE DISTRICT DETAIL TC-11



STATION EQUATION  
607+35 = CICERO AVE.  
20+00 = 16th ST.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL. 50 (CICERO AVE.)**

**PROPOSED ROADWAY PLANS**

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SCALE: VERT. 1"=50'  
DATE 4/6/2005

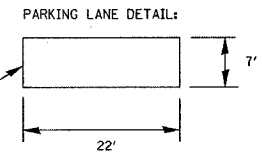
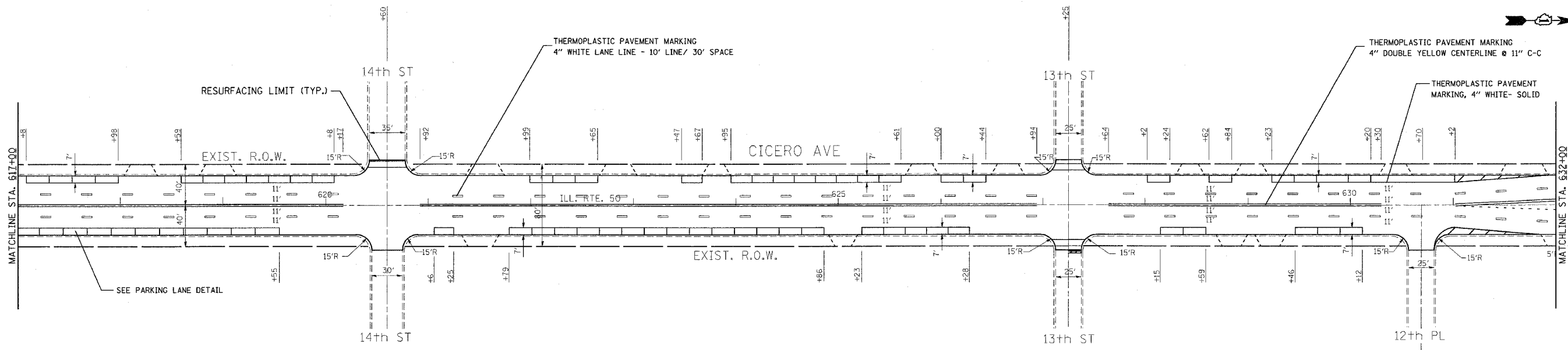
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| SECTION                    | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 3321-1BS                   | COOK     | 24               | 7         |
| STA. 617+00 TO STA. 632+00 |          |                  |           |
| FED. ROAD DIST. NO. 1      | ILLINOIS | FED. AID PROJECT |           |



- NOTE:**
1. ALL PAVEMENT MARKERS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SEE DISTRICT DETAIL TC-13
  2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LANE LINE MARKERS SHALL BE INSTALLED. SEE DISTRICT DETAIL TC-11

THERMOPLASTIC PAVEMENT MARKING  
4" WHITE PARKING LANE LINE

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL. 50 (CICERO AVE.)**

**PROPOSED ROADWAY PLANS**

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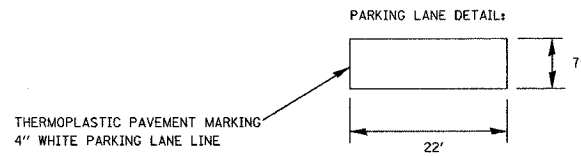
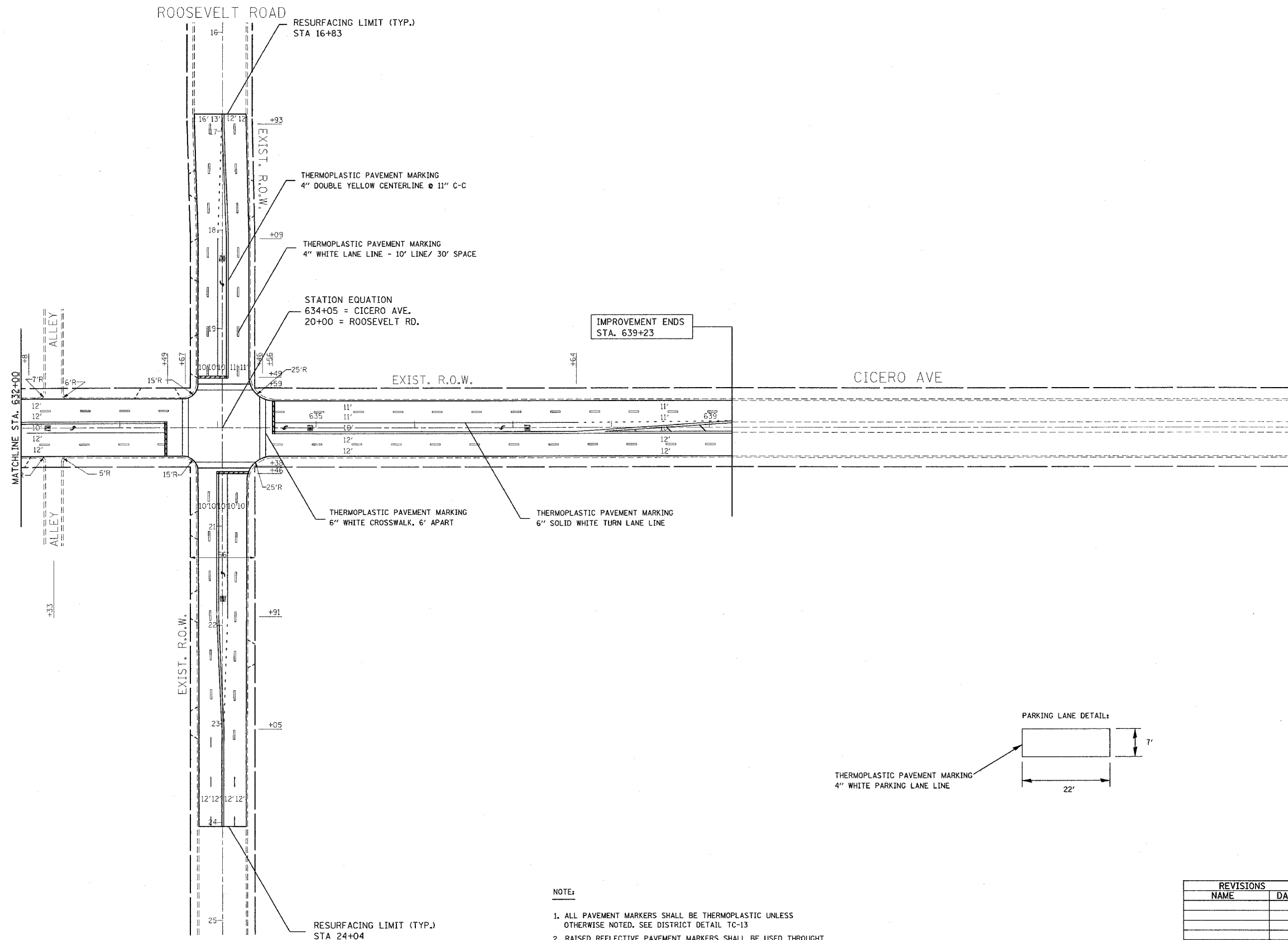
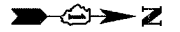
SCALE: VERT. 1"=50'  
HORIZ. 1"=50'

DATE 4/6/2005

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

62430

| F.A.P. R.T.E.                                   | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---|----------|------------------|--------------|-----------|
| 350   | 3321-1B5 | COOK             | 24           | 8         |
| STA. 632+00                                     |          | TO STA. 638+81.6 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |          |                  |              |           |



- NOTE:
1. ALL PAVEMENT MARKERS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SEE DISTRICT DETAIL TC-13
  2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LANE LINE MARKERS SHALL BE INSTALLED. SEE DISTRICT DETAIL TC-11

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL. 50 (CICERO AVE.) AT ROOSEVELT RD.**

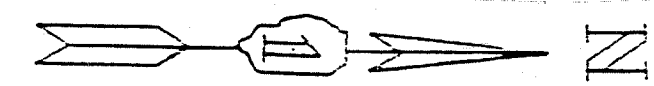
**PROPOSED ROADWAY PLANS**

SCALE: VERT. 1"=50'  
 HORIZ. 1"=50'

DATE 4/6/2005

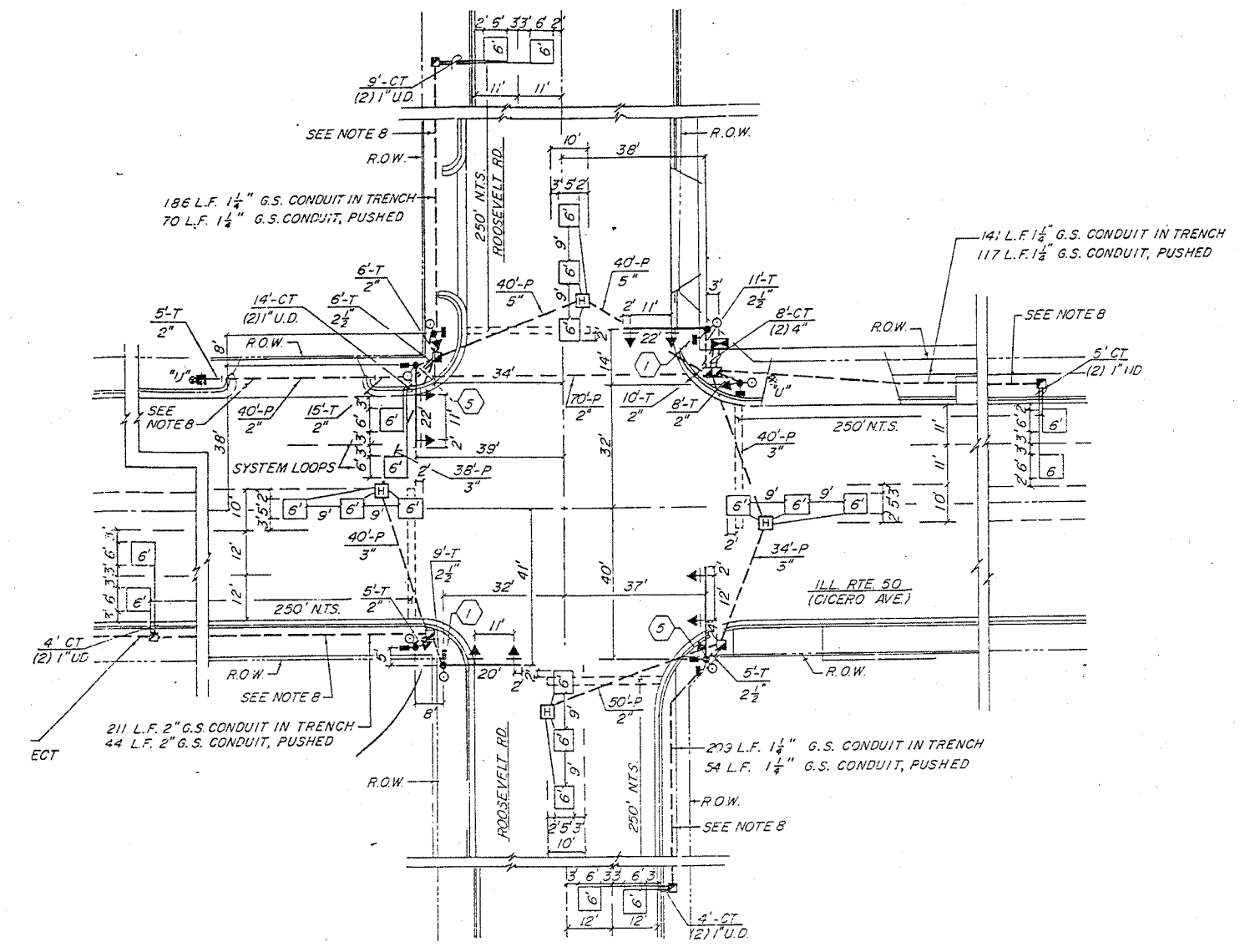
DRAWN BY  
 CHECKED BY





**NOTES:**

ALL LOOPS SHOWN ARE WITHIN THE RESURFACING LIMITS.



**REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)**

| CODE NO. | QUANTITY | UNIT | ITEM                      |
|----------|----------|------|---------------------------|
| 88600600 | 770      | FOOT | DETECTOR LOOP REPLACEMENT |

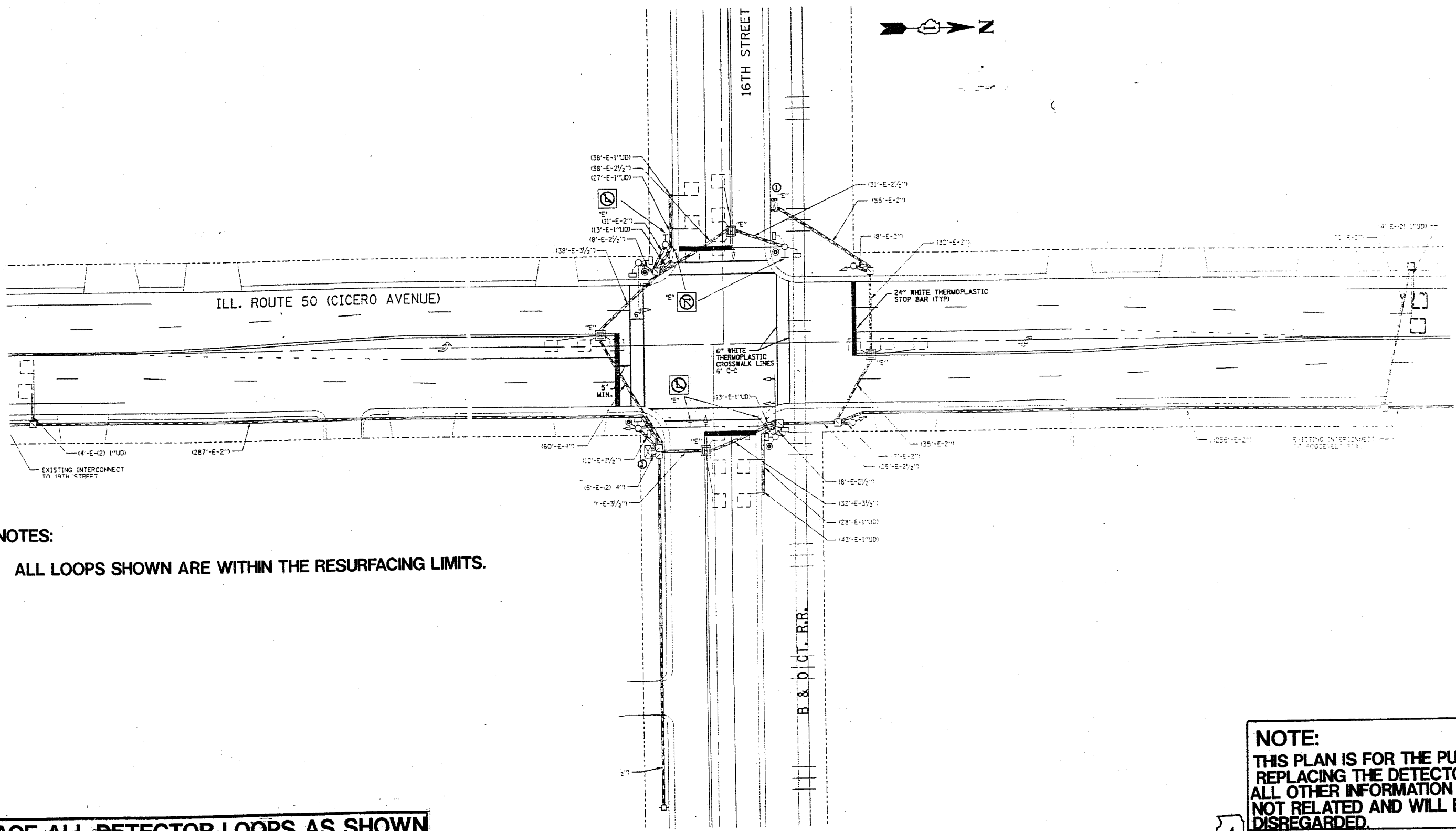
**NOTE:**  
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
DETECTOR LOOPS AT:  
IL RT 50 (CICERO AVE)  
& ROOSEVELT ROAD

SCALE: 1"= DATE

DESIGNED BY: DRAWN BY: CHECKED BY:



**NOTES:**  
 ALL LOOPS SHOWN ARE WITHIN THE RESURFACING LIMITS.

**NOTE:**  
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

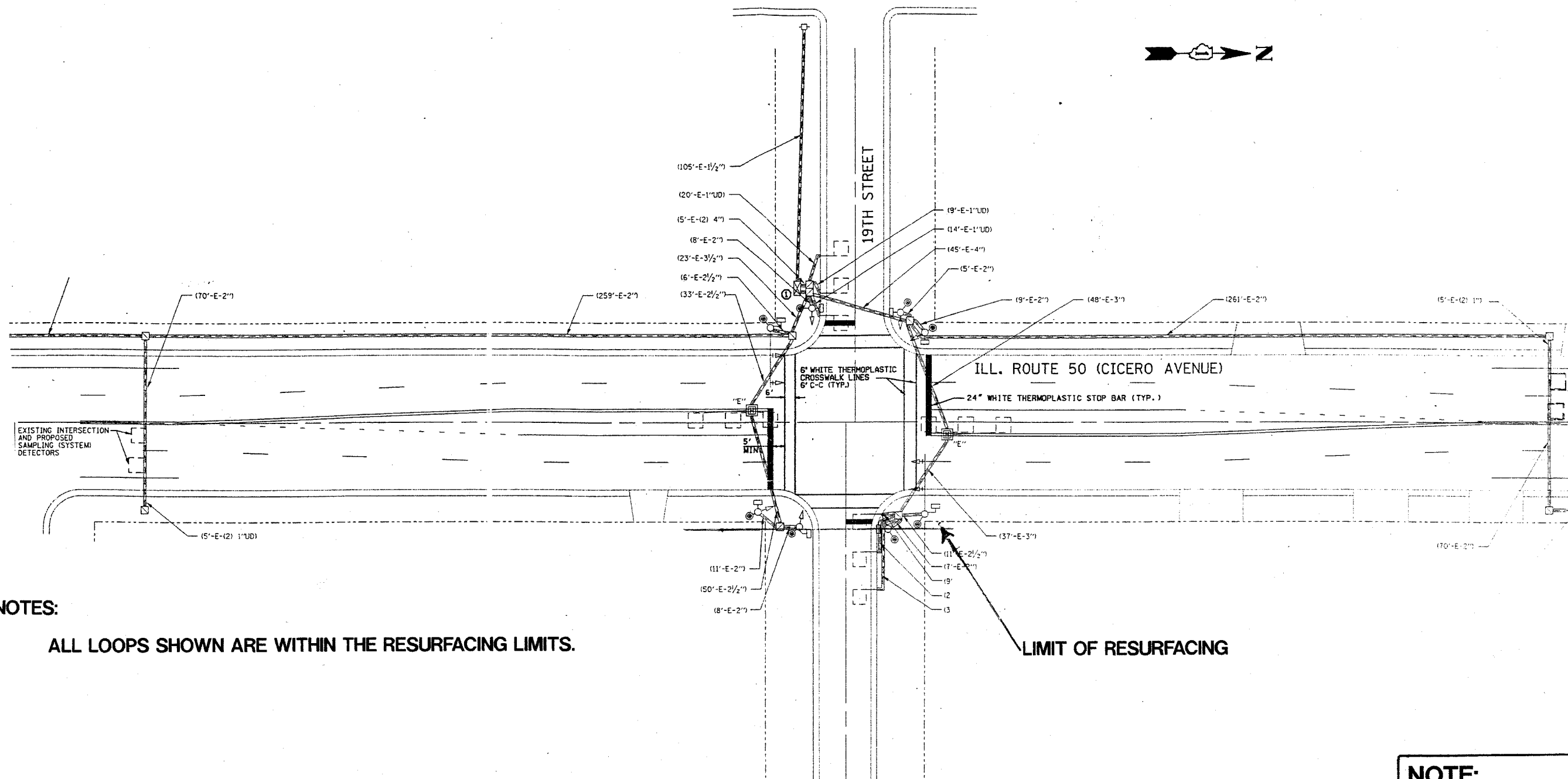
|  |                 |             |                           |
|--|-----------------|-------------|---------------------------|
| <b>REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)</b> |                 |             |                           |
| <b>CODE NO.</b>  | <b>QUANTITY</b> | <b>UNIT</b> | <b>ITEM</b>               |
| 88600600   | 750             | FOOT        | DETECTOR LOOP REPLACEMENT |

SCALE: 1"= DATE  
 DESIGNED BY: DRAWN BY: CHECKED BY:



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DETECTOR LOOPS AT:  
 IL RT 50 (CICERO AVE)  
 & 16th STREET

|                     |          |                           |              |           |
|---------------------|----------|---------------------------|--------------|-----------|
| E.A.P. RTE.         | SECTION  | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 350                 | 3321-1BS | COOK                      | 24           | 11        |
| STA. 560±87         |          | TO STA. 639±23            |              | 62430     |
| FED. ROAD DIST. NO. |          | ILLINOIS FED. AID PROJECT |              |           |



**NOTES:**  
 ALL LOOPS SHOWN ARE WITHIN THE RESURFACING LIMITS.

LIMIT OF RESURFACING

**NOTE:**  
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

**REPLACE ALL DETECTOR LOOPS AS SHOWN**

**(WITHIN THE RESURFACING LIMITS)**

| CODE NO. | QUANTITY | UNIT | ITEM                      |
|----------|----------|------|---------------------------|
| 88600600 | 522      | FOOT | DETECTOR LOOP REPLACEMENT |

SCALE: 1"=  
 DATE

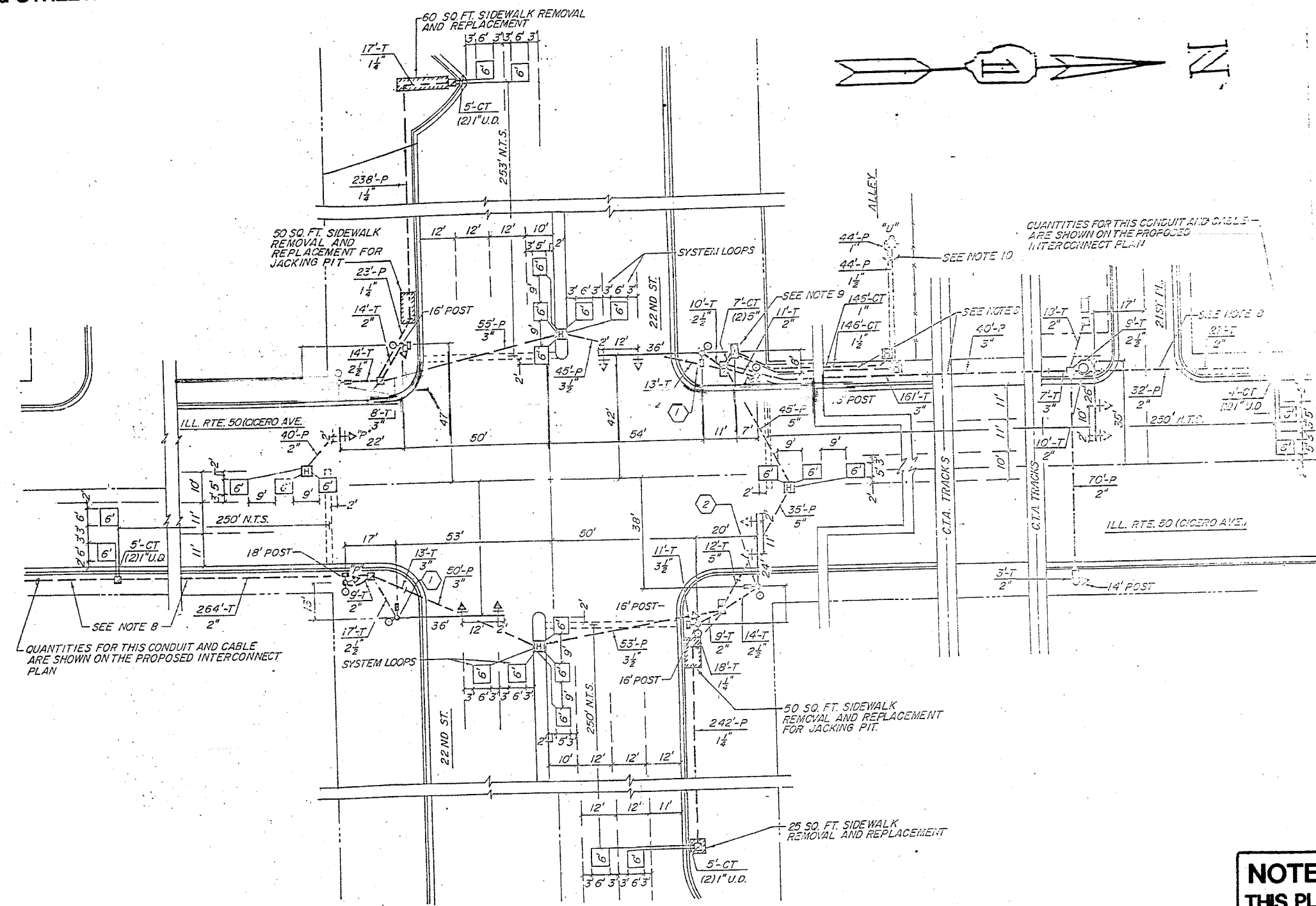
DESIGNED BY:  
 DRAWN BY:  
 CHECKED BY:



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DETECTOR LOOPS AT:  
 IL RT 50 (CICERO AVE)  
 & 19th STREET

**NOTES:**

ALL LOOPS SHOWN ARE WITHIN THE RESURFACING LIMITS EXCEPT FAR OUTS ON 22nd STREET.



**REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)**

| CODE NO. | QUANTITY | UNIT | ITEM                      |
|----------|----------|------|---------------------------|
| 88600600 | 688      | FOOT | DETECTOR LOOP REPLACEMENT |

**NOTE:**  
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.



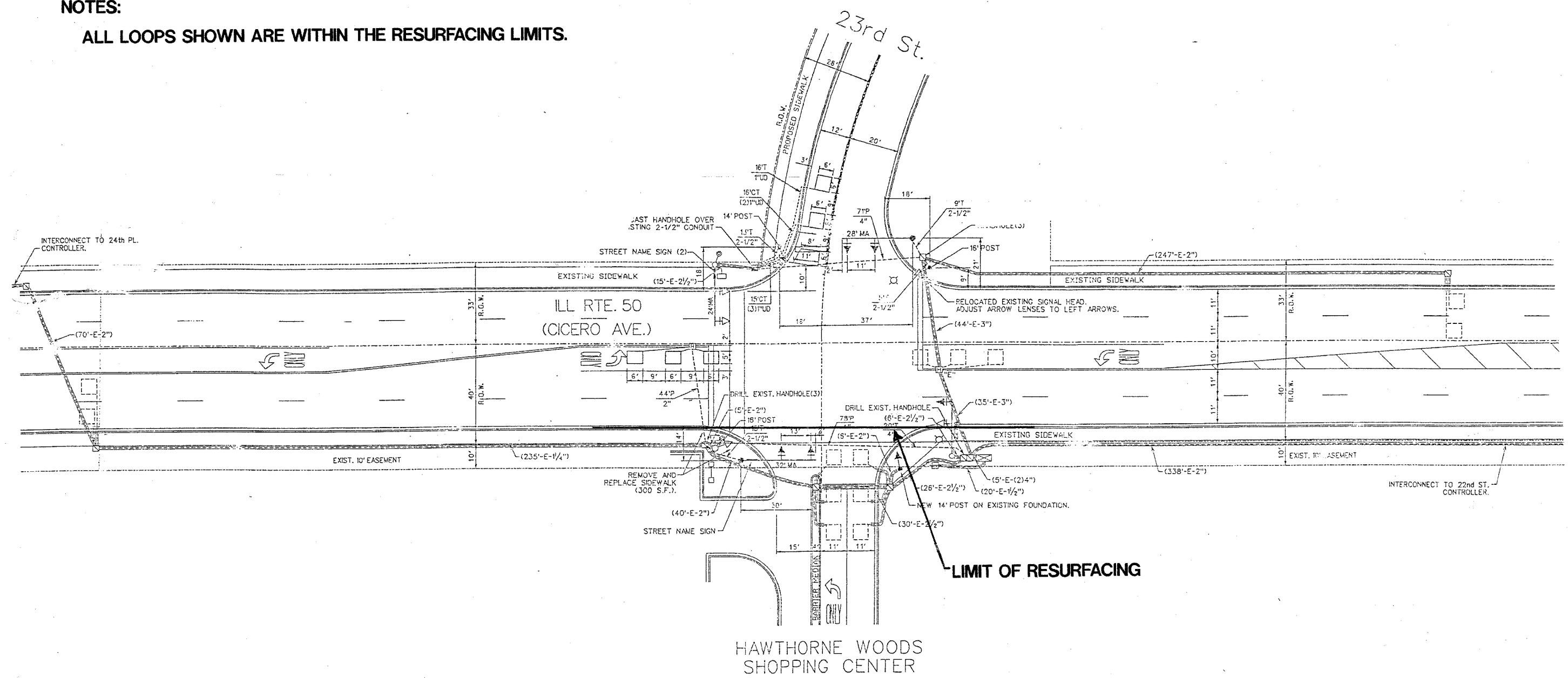
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DETECTOR LOOPS AT:  
IL RT 50 (CICERO AVE)  
& 22nd STREET

SCALE: 1"=  
DATE  
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:



**NOTES:**

ALL LOOPS SHOWN ARE WITHIN THE RESURFACING LIMITS.



| REPLACE ALL DETECTOR LOOPS AS SHOWN<br>(WITHIN THE RESURFACING LIMITS) |          |      |                           |
|--|----------|------|---------------------------|
| CODE NO.   | QUANTITY | UNIT | ITEM                      |
| 88600600   | 443      | FOOT | DETECTOR LOOP REPLACEMENT |

SCALE: 1" =  
DATE  
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:

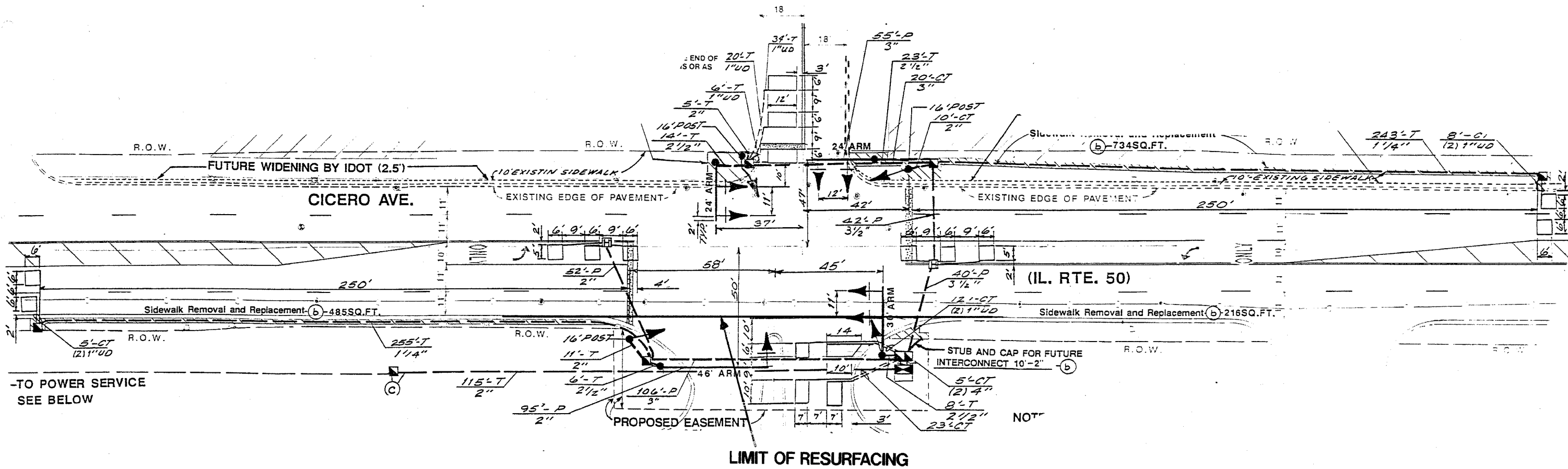


**NOTE:**  
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DETECTOR LOOPS AT:  
IL RT 50 (CICERO AVE)  
& 23rd STREET



24TH. PLACE



| REPLACE ALL DETECTOR LOOPS AS SHOWN<br>(WITHIN THE RESURFACING LIMITS) |          |      |                           |
|--|----------|------|---------------------------|
| CODE NO.   | QUANTITY | UNIT | ITEM                      |
| 88600600   | 465      | FOOT | DETECTOR LOOP REPLACEMENT |

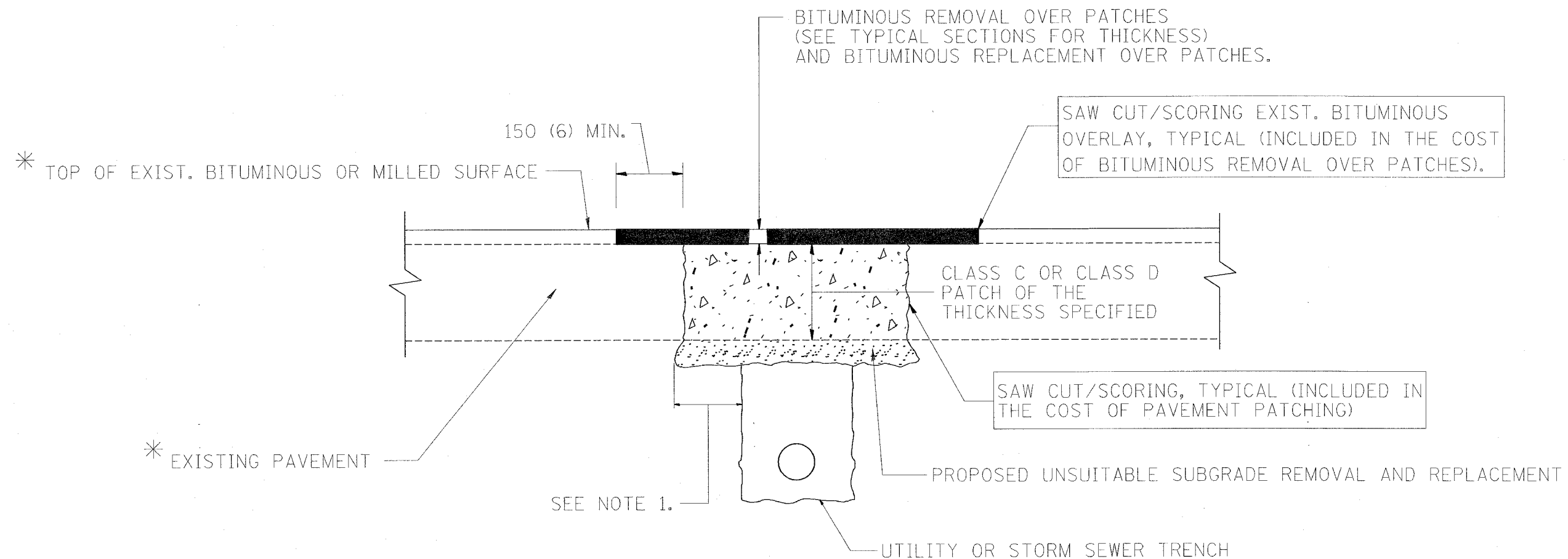
SCALE: 1" =  
DATE  
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:



**NOTE:**  
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DETECTOR LOOPS AT:  
IL RT 50 (CICERO AVE)  
& 24th PLACE

|                     |                           |        |              |           |
|---------------------|---------------------------|--------|--------------|-----------|
| F.A. RTE.           | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350                 | 3321-1R5                  | Cook   | 24           | 15        |
| STA.                | TO STA.                   |        |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |        |              |           |
|                     | 62430                     |        |              |           |



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 300 (12) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE SPECIAL PROVISION "PATCHING WITH BITUMINOUS OVERLAY REMOVAL".

**SEQUENCE OF CONSTRUCTION**

1. REMOVE THE EXISTING BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

| REVISIONS |          |
|-----------|----------|
| NAME      | DATE     |
| R. SHAH   | 10/25/94 |
| R. SHAH   | 01/14/95 |
| R. SHAH   | 03/23/95 |
| R. SHAH   | 04/24/95 |
| A. HOUSEH | 03/15/96 |
| A. ABBAS  | 03/21/97 |
| A. ABBAS  | 01/20/98 |
| ART ABBAS | 04/27/98 |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT**

SCALE: VERT. DATE 1/12/2005

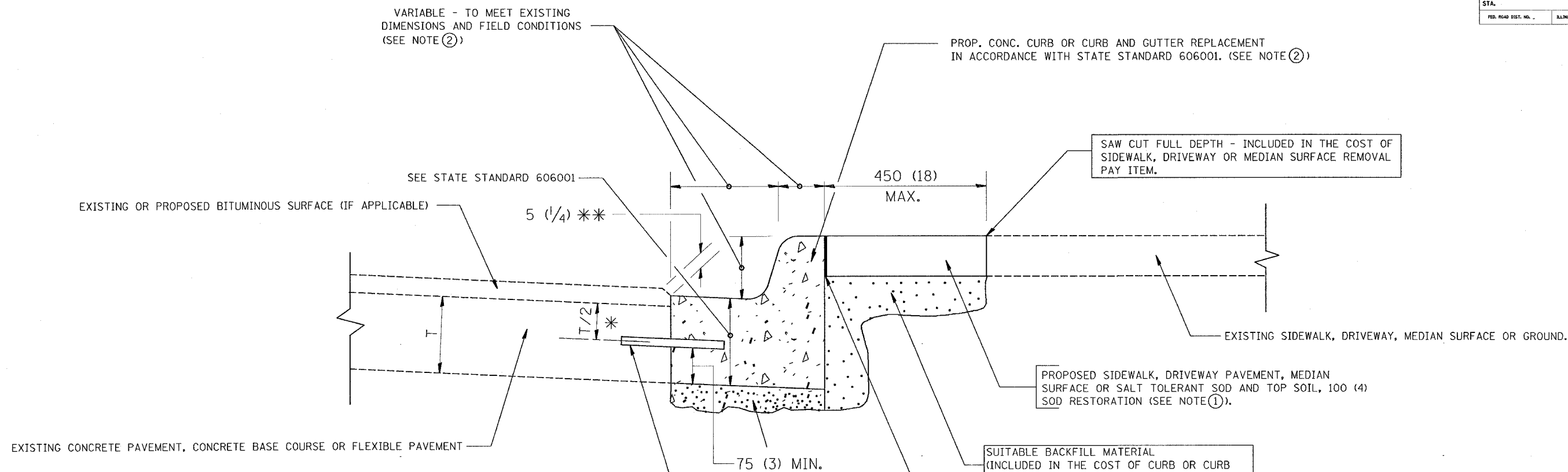
DRAWN BY CHECKED BY

BD400-04 (BD-22)

REVISION DATE: 04/27/98

| P.A. FILE           | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO |
|---------------------|----------|------------------|--------------|----------|
| 350                 | 3321-125 | COOK             | 24           | 16       |
| STA.                | TO STA.  |                  |              |          |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |          |

62430



- \* 75 (3) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 100 (4) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑤ THE COST OF BITUMINOUS SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 100 (4) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 20 (3/4) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 100 (4) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 100 (4) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED NO. 20 (NO. 6) EPOXY COATED TIE BARS 600 (24) LONG AT 600 (24) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (FOOT) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**

| REVISIONS  |          |
|------------|----------|
| NAME       | DATE     |
| M. DE YONG | 05/28/91 |
| A. HOUSEH  | 03/11/94 |
| R. SHAH    | 02/24/95 |
| R. SHAH    | 03/02/95 |
| R. SHAH    | 08/19/96 |
| R. SHAH    | 09/12/96 |
| R. SHAH    | 09/19/96 |
| R. SHAH    | 10/03/96 |
| A. ABBAS   | 03/21/97 |
| M. GOMEZ   | 01/22/01 |

SCALE: NONE  
DATE 1/12/2005

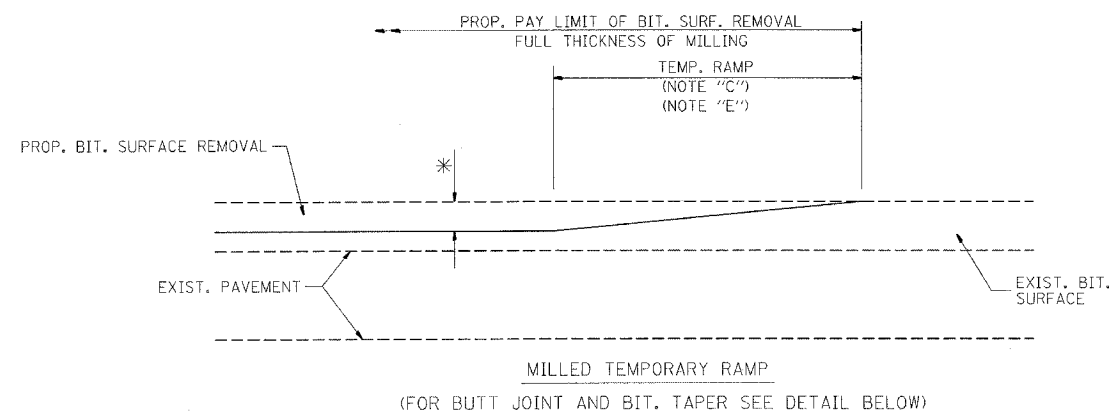
DRAWN BY  
CHECKED BY  
BD600-06 (BD-24)

REVISION DATE: 12/06/88

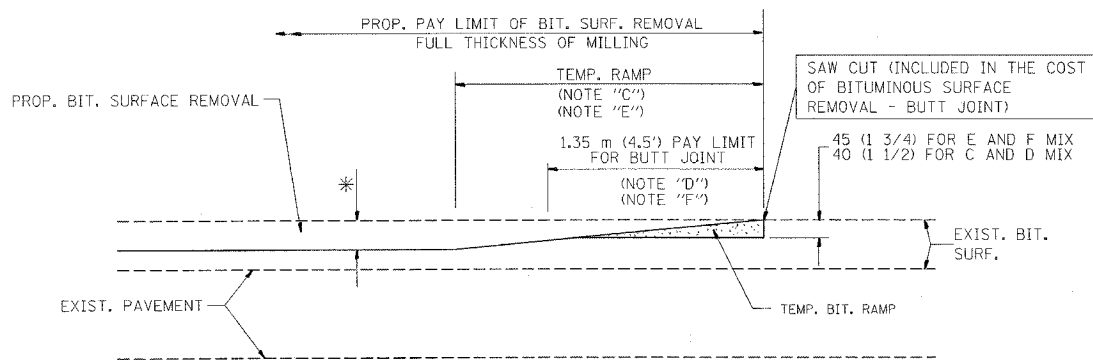
**CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**



|                     |          |                  |              |           |
|---------------------|----------|------------------|--------------|-----------|
| P.A. NO.            | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 350                 | 3321-12s | Cook             | 24           | 17        |
| STA.                | TO STA.  |                  |              |           |
|                     |          |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |
|                     | 62430    |                  |              |           |

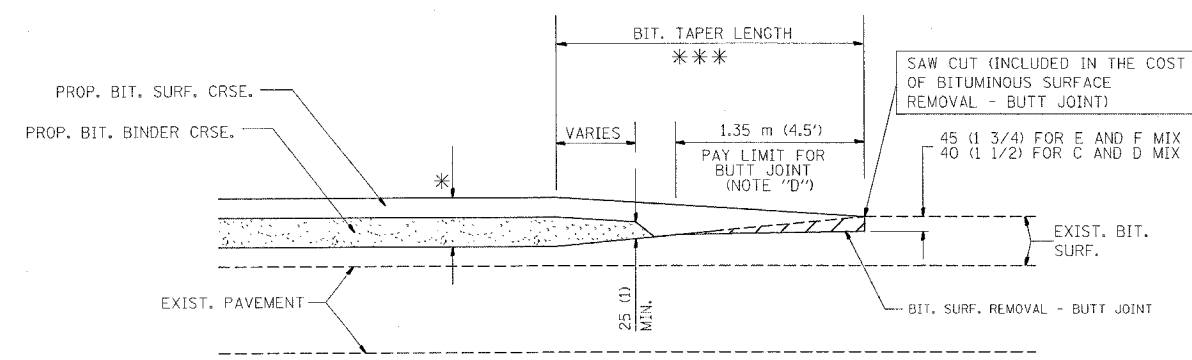


**OPTION 1**

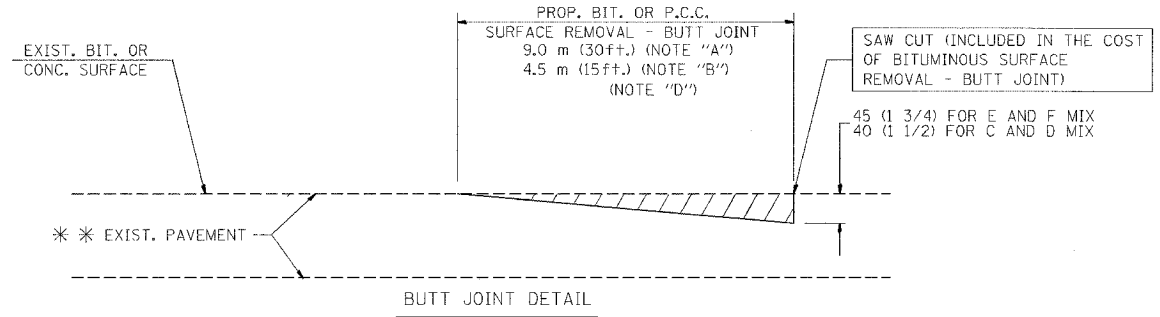


**BITUMINOUS CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

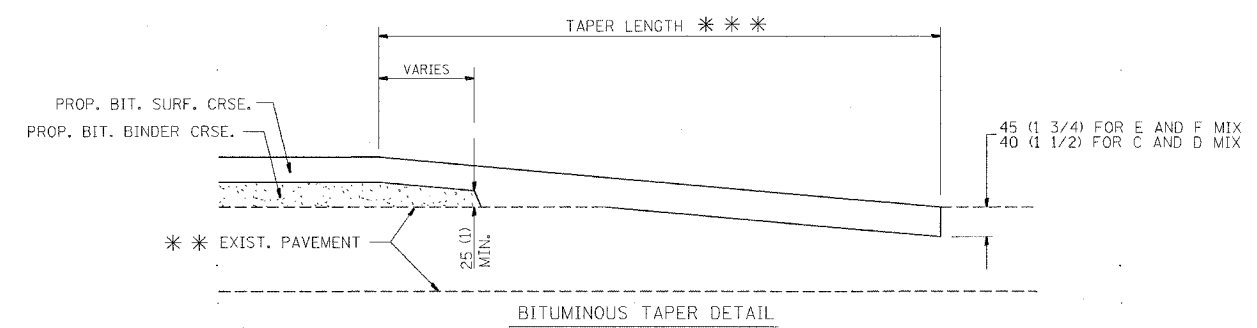
**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND BITUMINOUS TAPER**  
**FOR MILLING AND RESURFACING**



**BUTT JOINT DETAIL**



**BITUMINOUS TAPER DETAIL**

**TYPICAL BUTT JOINT AND BITUMINOUS TAPER**  
**FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT.

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING BITUMINOUS SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 ft.) PER INCH OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT".
  - G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT".
- \*\*\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")  
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

| REVISIONS  |          |
|------------|----------|
| NAME       | DATE     |
| M. DE YONG | 6-13-90  |
| M. DE YONG | 7-3-90   |
| M. DE YONG | 3-27-92  |
| R. SHAH    | 09/09/94 |
| R. SHAH    | 10/25/94 |
| A. ABBAS   | 03/21/97 |
| M. GOMEZ   | 04/06/01 |

ILLINOIS DEPARTMENT OF TRANSPORTATION

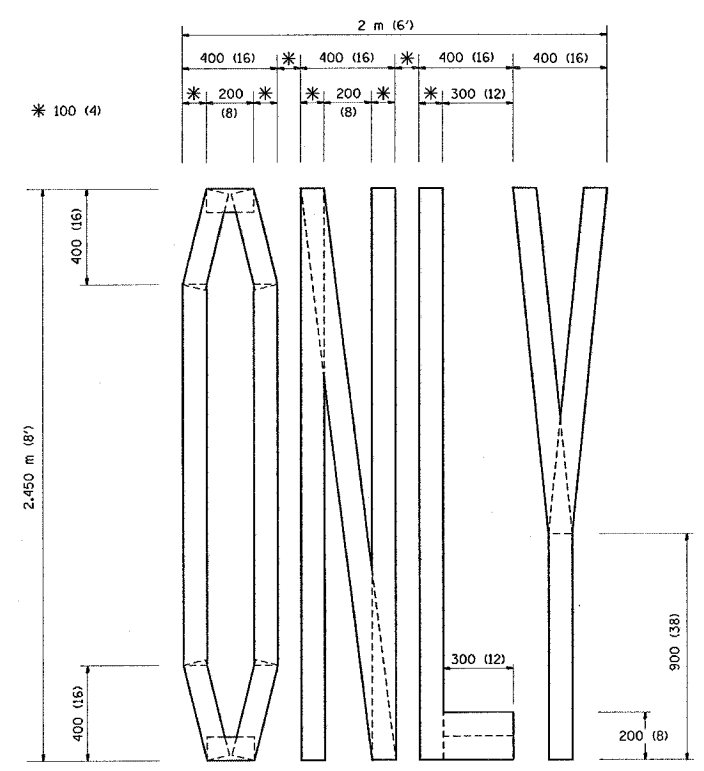
**BUTT JOINT AND BITUMINOUS TAPER DETAILS**

SCALE: NONE  
DATE PLOTTED: 1/12/2005

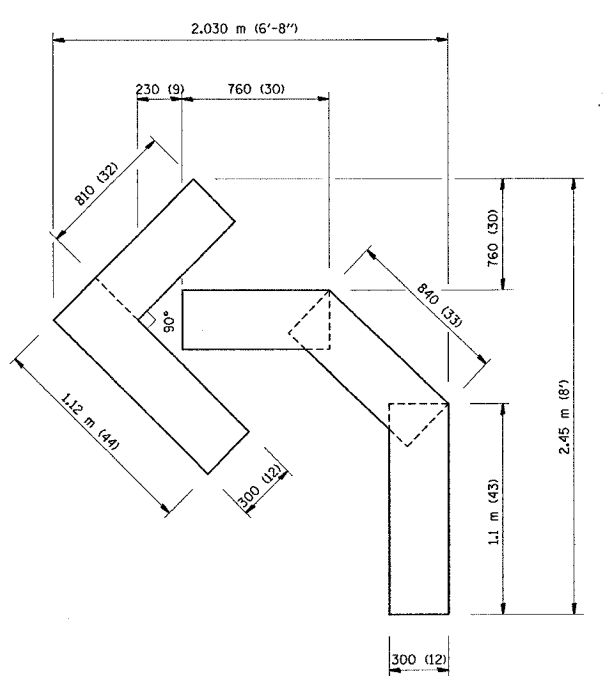
DRAWN BY  
CHECKED BY

|                     |          |                  |              |           |
|---------------------|----------|------------------|--------------|-----------|
| P. A. SHEET         | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 350                 | 3321-125 | COOK             | 24           | 18        |
| STA.                | TO STA.  |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |

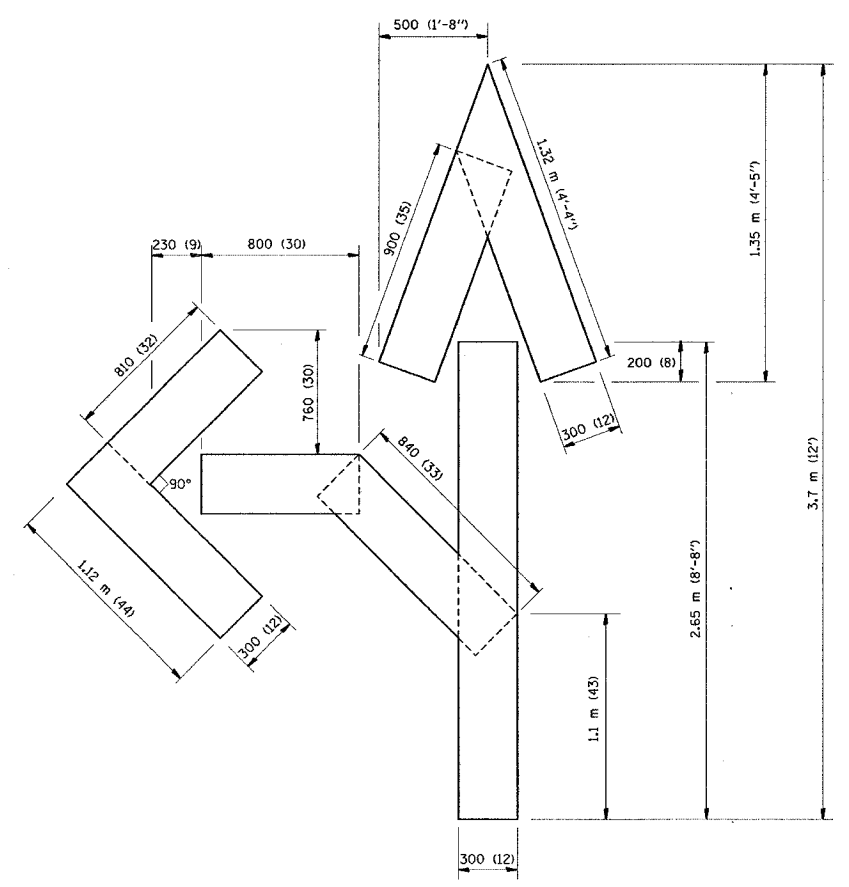
62430



QUANTITY  
 100 (4) LINE = 19.7 m (64.1 ft.)  
 1.97 sq. m (21.1 sq. ft.)



QUANTITY  
 100 (4) LINE = 13.9 m (45.5 ft.)  
 1.39 sq. m (15.2 sq. ft.)



QUANTITY  
 100 (4) LINE = 25.3 m (82.5 ft.)  
 2.53 sq. m (27.5 sq. ft.)

All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING  
 LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

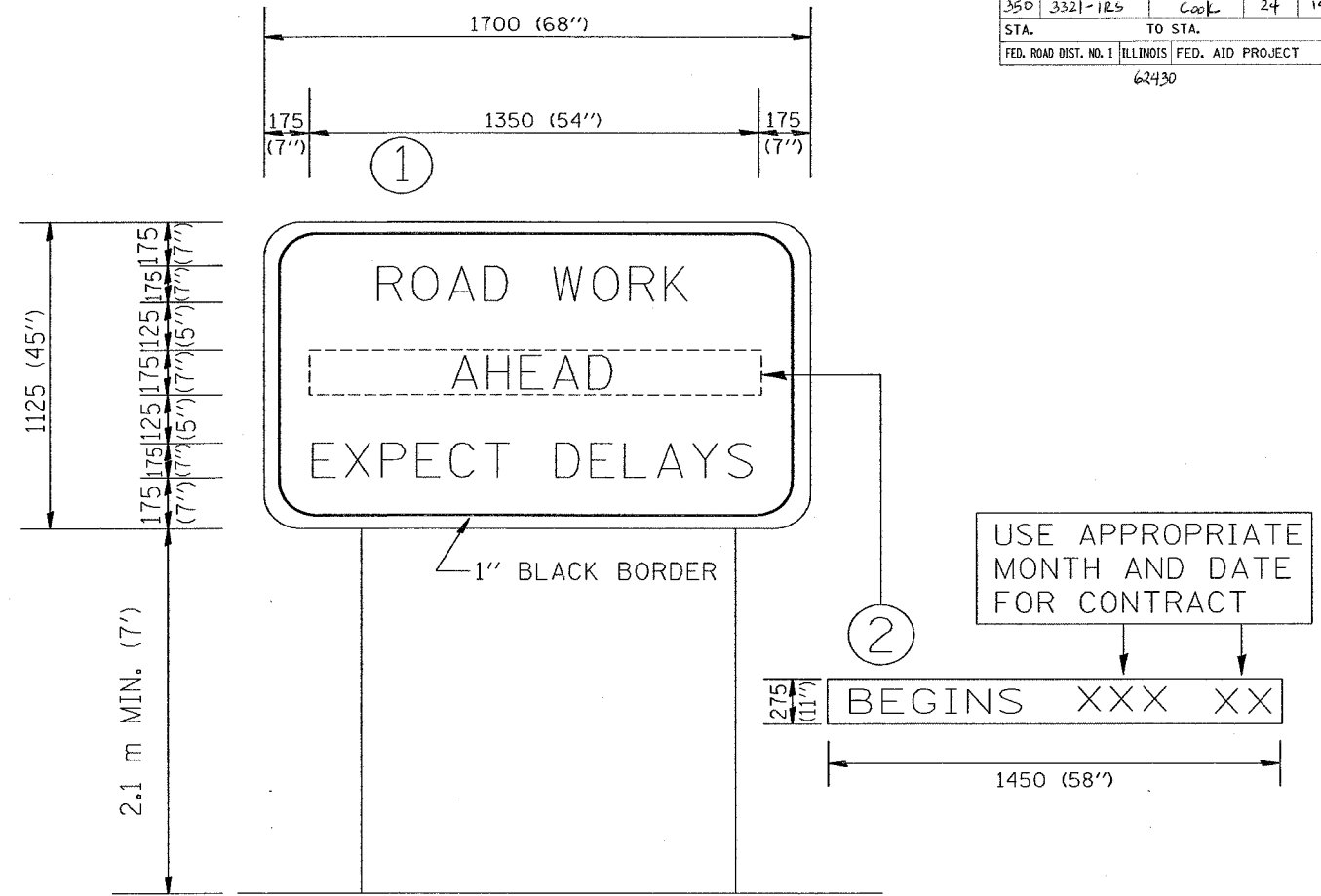
| REVISIONS    |          |
|--------------|----------|
| NAME         | DATE     |
| T. RAMMACHER | 09/18/94 |
| J. OBERLE    | 06/01/96 |
| T. RAMMACHER | 06/05/96 |
| T. RAMMACHER | 11/04/97 |
| T. RAMMACHER | 03/02/98 |
| E. GOMEZ     | 08/28/00 |

SCALE: NONE  
 DATE 1/12/2005

DRAWN BY CADD  
 CHECKED BY  
 TC-16

REVISION DATE: 08/28/00

|   |          |        |              |           |
|---|----------|--------|--------------|-----------|
| F.A. R.T.E.                                     | SECTION  | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350   | 3321-125 | Cook   | 24           | 19        |
| STA.  | TO STA.  |        |              |           |
|   |          |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |          |        |              |           |
| 62430   |          |        |              |           |



**NOTES:**

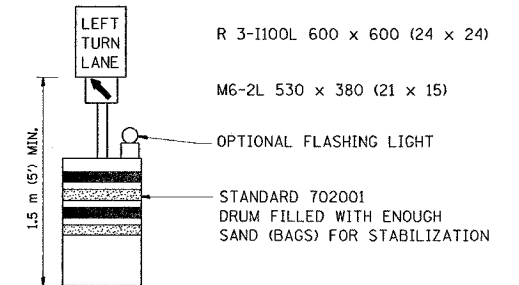
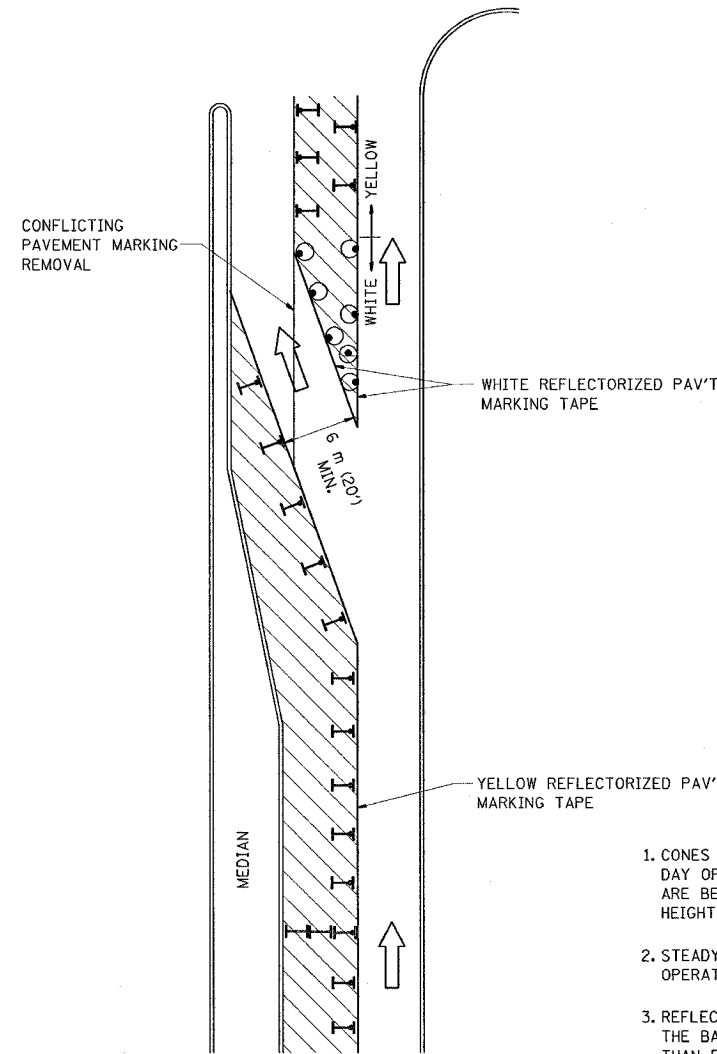
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

| REVISIONS    |         |
|--------------|---------|
| NAME         | DATE    |
| R. MIRS      | 9-15-97 |
| R. MIRS      | 2-11-97 |
| T. RAMMACHER | 2-2-99  |
|              |         |
|              |         |
|              |         |
|              |         |
|              |         |
|              |         |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY INFORMATION SIGNING  
 SCALE: DATE 1/12/2005  
 DRAWN BY: BUR. OF DESIGN  
 CHECKED BY:







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|---------------------|----------|------------------|--------------|-----------|
| P. A. SITE NO.      | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 350                 | 3321-125 | Cook             | 24           | 20        |
| STA.                | TO STA.  |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |
|                     |          | 62430            |              |           |



**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

**LEGEND**

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION  
 AT TURN BAYS  
 (TO REMAIN OPEN TO TRAFFIC)**

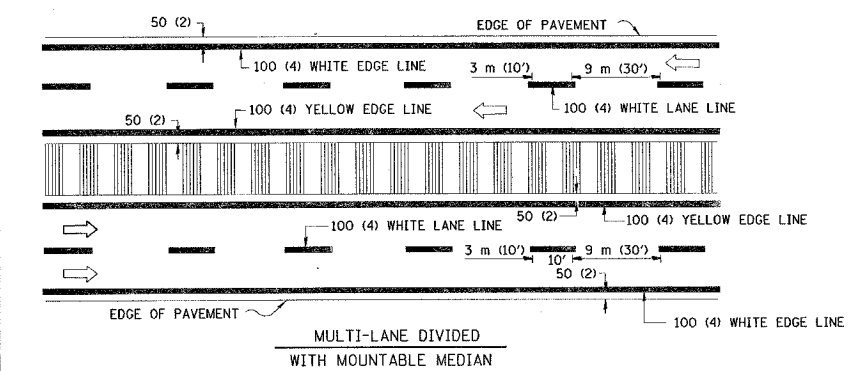
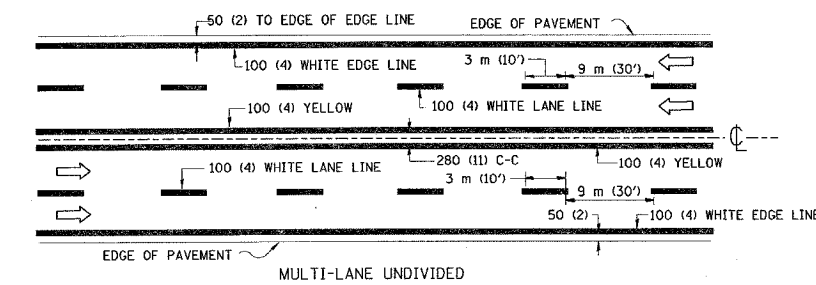
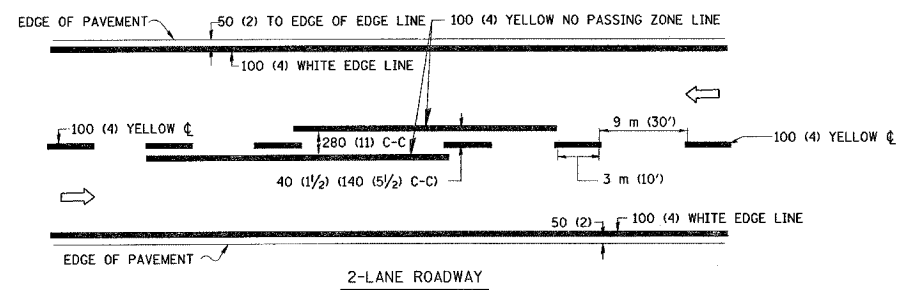
| REVISIONS    |          |
|--------------|----------|
| NAME         | DATE     |
| T. RAMMACHER | 09/08/94 |
| A. HOUSEH    | 11/07/95 |
| A. HOUSEH    | 10/12/96 |
| T. RAMMACHER | 01/06/00 |
|              |          |
|              |          |

SCALE: NONE  
 DATE: 1/12/2005

DRAWN BY  
 CHECKED BY LHA  
 TC-14

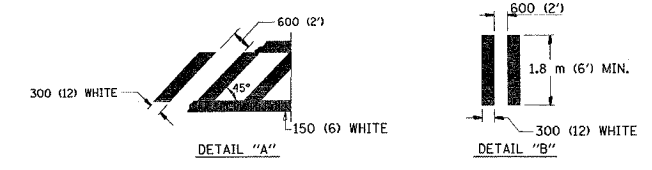
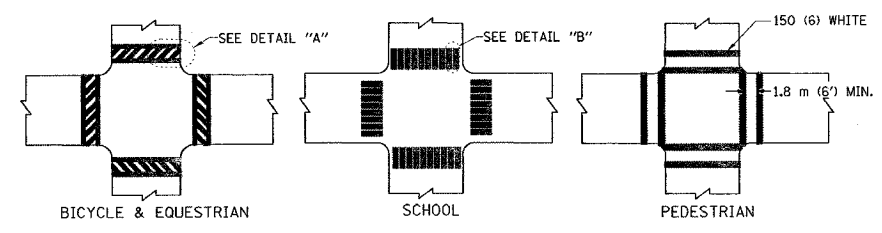
REVISION DATE: 01/06/00

|          |          |        |                  |           |
|----------|----------|--------|------------------|-----------|
| F.A. NO. | SECTION  | COUNTY | TOTAL SHEETS     | SHEET NO. |
| 350      | 3321-125 | Cook   | 24               | 21        |
| STA.     | TO STA.  |        | FED. AID PROJECT |           |
|          | 62430    |        |                  |           |

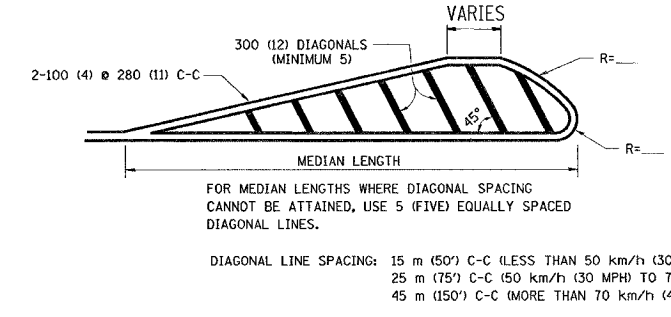
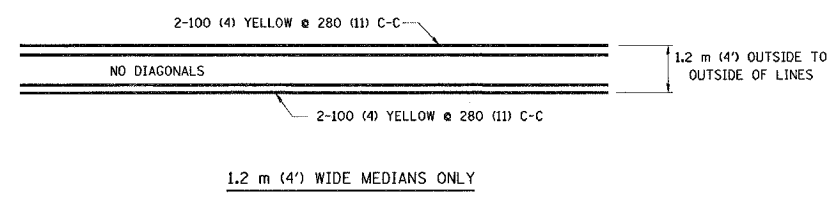


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

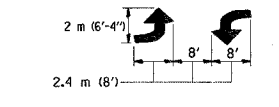
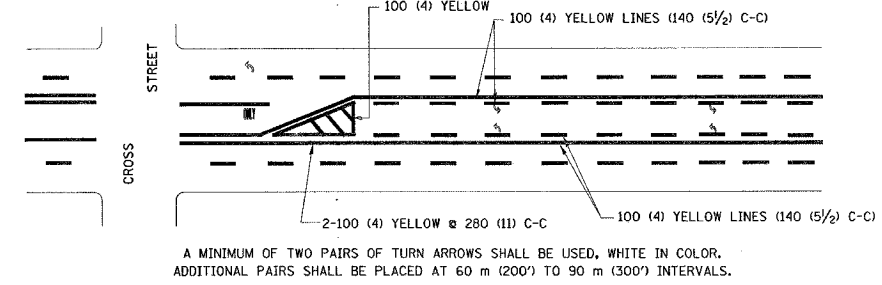
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

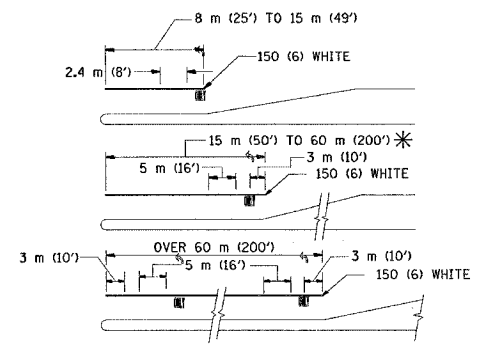


MEDIANS OVER 1.2 m (4') WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

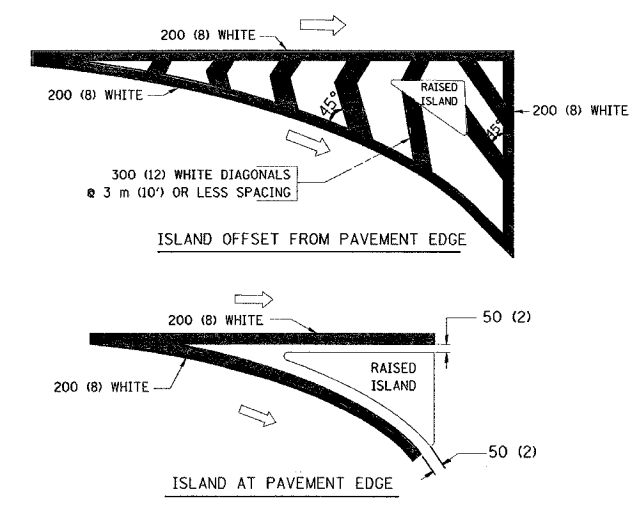
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. AREA = 1.5 m<sup>2</sup> (15.6 SQ. FT.) ONLY AREA = 1.9 m<sup>2</sup> (20.8 SQ. FT.) \* TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| TYPE OF MARKING   | WIDTH OF LINE  | PATTERN                         | COLOR   | SPACING / REMARKS  |
|---|--|---------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT   | 100 (4)  | SKIP-DASH                       | YELLOW  | 3 m (10') LINE WITH 9 m (30') SPACE  |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT   | 2 @ 100 (4)  | SOLID                           | YELLOW  | 280 (11) C-C   |
| NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS                                       | 100 (4)<br>2 @ 100 (4)   | SOLID<br>SOLID                  | YELLOW<br>YELLOW                                  | 140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE<br>280 (11) C-C<br>OMIT SKIP-DASH CENTERLINE BETWEEN   |
| LANE LINES  | 100 (4)<br>125 (5) ON FREEWAYS   | SKIP-DASH<br>SKIP-DASH          | WHITE<br>WHITE                                    | 3 m (10') LINE WITH 9 m (30') SPACE  |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)                                   | SAME AS LINE BEING EXTENDED  | SKIP-DASH                       | SAME AS LINE BEING EXTENDED                       | 600 (2') LINE WITH 1.8 m (6') SPACE  |
| EDGE LINES  | 100 (4)  | SOLID                           | YELLOW-LEFT<br>WHITE-RIGHT                        | OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB  |
| TURN LANE MARKINGS  | 150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))                                     | SOLID                           | WHITE   | SEE TYPICAL TURN LANE MARKING DETAIL   |
| TWO WAY LEFT TURN MARKING   | 2 @ 100 (4)<br>2.4 m (8') LEFT ARROW   | SKIP-DASH AND SOLID<br>IN PAIRS | YELLOW<br>WHITE                                   | 3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE<br>SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL           |
| CROSSWALK LINES (PEDESTRIAN)<br>A. DIAGONALS (BIKE & EQUESTRIAN)<br>B. LONGITUDINAL BARS (SCHOOL) | 2 @ 150 (6)<br>300 (12) @ 45°<br>300 (12) @ 90°  | SOLID<br>SOLID<br>SOLID         | WHITE<br>WHITE<br>WHITE                           | NOT LESS THAN 1.8 m (6') APART<br>600 (2') APART<br>600 (2') APART<br>SEE TYPICAL CROSSWALK MARKING DETAILS.   |
| STOP LINES  | 600 (24)   | SOLID                           | WHITE   | PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS   | 2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45°<br>NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS | SOLID                           | YELLOW: TWO WAY TRAFFIC<br>WHITE: ONE WAY TRAFFIC | 280 (11) C-C FOR THE DOUBLE LINE<br>SEE TYPICAL PAINTED MEDIAN MARKING.  |
| GORE MARKING AND CHANNELIZING LINES   | 200 (8) WITH 300 (12) DIAGONALS @ 45°  | SOLID                           | WHITE   | DIAGONALS:<br>4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH))<br>6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))<br>9 m (30') C-C (OVER 70 km/h (45 MPH))        |
| RAILROAD CROSSING   | 600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"               | SOLID                           | WHITE   | SEE STATE STANDARD 780001<br>AREA OF:<br>"R"=0.33m <sup>2</sup> (3.6 SQ. FT.) EACH<br>"X"=5.0 m <sup>2</sup> (54.0 SQ. FT.)  |
| SHOULDER DIAGONALS  | 300 (12) @ 45°   | SOLID                           | WHITE - RIGHT<br>YELLOW - LEFT                    | 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))<br>25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))<br>45 m (150') C-C (OVER 70 km/h (45 MPH))                    |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

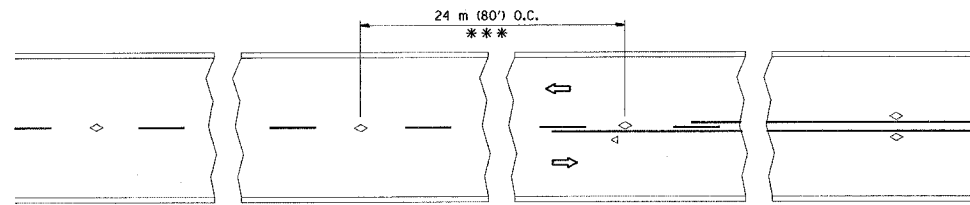
TYPICAL PAVEMENT MARKINGS

| REVISIONS    |          |
|--------------|----------|
| NAME         | DATE     |
| EVERS        | 03-19-90 |
| T. RAMMACHER | 10-27-94 |
| ALEX HOUSEH  | 10-09-96 |
| ALEX HOUSEH  | 10-17-96 |
| T. RAMMACHER | 01-06-00 |

SCALE: NONE  
DATE: 1/12/2005  
DRAWN BY: CADD  
CHECKED BY:  
TC-13  
REVISION DATE: 01/06/00

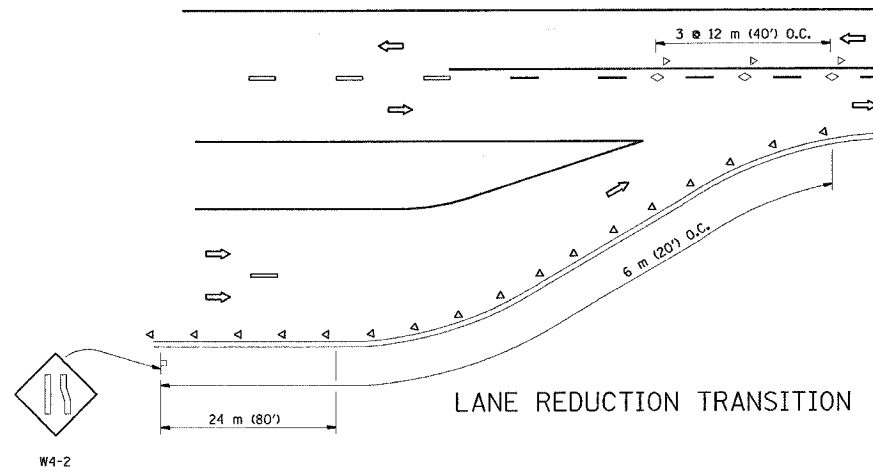
|                     |          |                  |              |           |
|---------------------|----------|------------------|--------------|-----------|
| P.A. NO.            | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 350                 | 3321-125 | Cook             | 24           | 22        |
| STA.                | TO STA.  |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |

62430

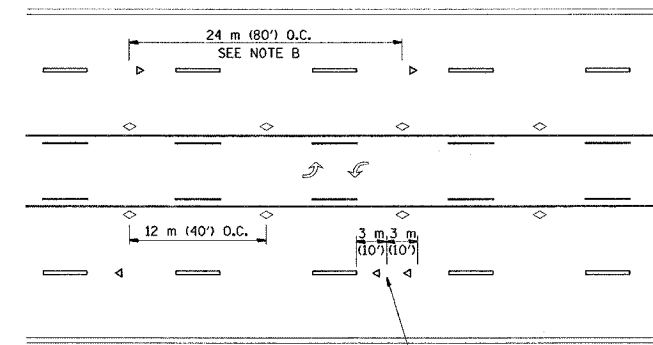


\*\*\* REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS.

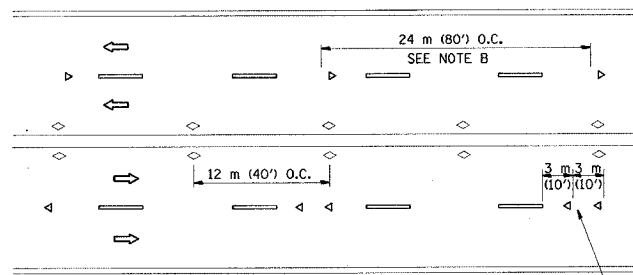
TWO-LANE/TWO-WAY



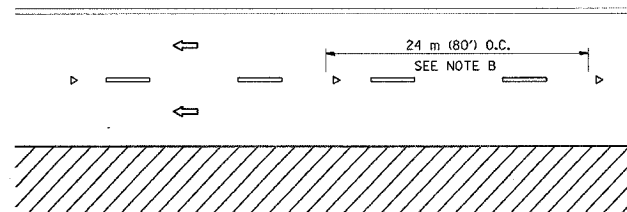
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

All dimensions are in millimeters (Inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

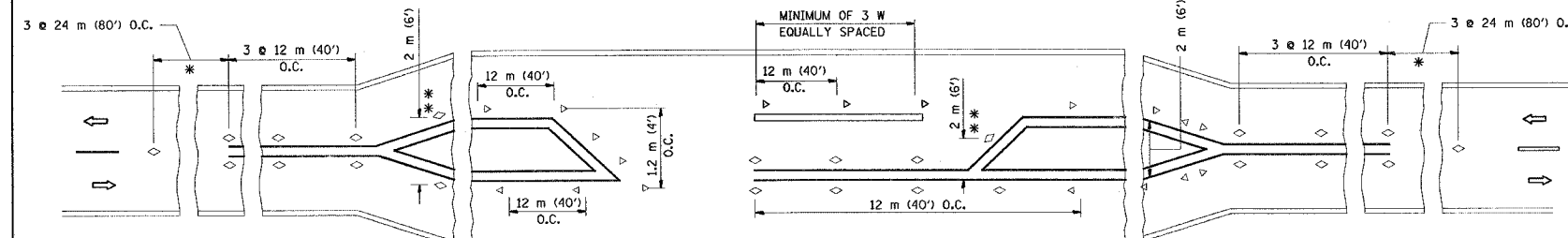
TYPICAL APPLICATIONS  
RAISED REFLECTIVE PAVEMENT MARKERS  
(SNOW-PLOW RESISTANT)

| REVISIONS    |          |
|--------------|----------|
| NAME         | DATE     |
| T. RAMMACHER | 09-19-94 |
| T. RAMMACHER | 03-12-99 |
| T. RAMMACHER | 01-06-00 |

SCALE: NONE  
DATE: 1/12/2005

DRAWN BY CADD  
CHECKED BY  
TC-11

REVISION DATE: 01/06/00

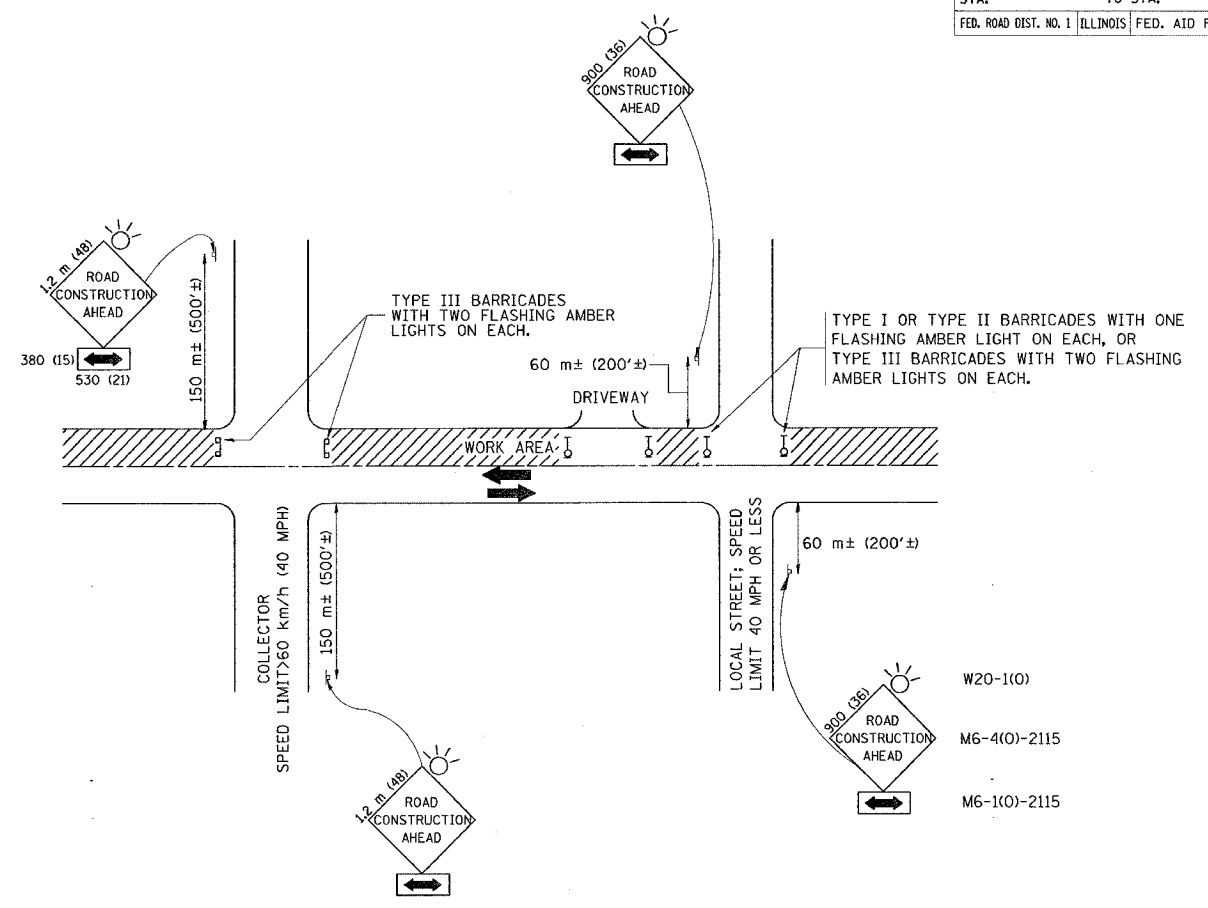


\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
\*\* WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

LEFT TURN

62430

|                       |          |                           |              |           |
|-----------------------|----------|---------------------------|--------------|-----------|
| F.A. RTE.             | SECTION  | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 350                   | 3321-125 | Cook                      | 24           | 23        |
| STA.                  |          | TO STA.                   |              |           |
| FED. ROAD DIST. NO. 1 |          | ILLINOIS FED. AID PROJECT |              |           |



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

| REVISIONS    |          |
|--------------|----------|
| NAME         | DATE     |
| LHA          | 6/89     |
| T. RAMMACHER | 09/08/94 |
| J. OBERLE    | 10/18/95 |
| A. HOUSEH    | 03/06/96 |
| A. HOUSEH    | 10/15/96 |
| T. RAMMACHER | 01/06/00 |
|              |          |
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|              |          |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

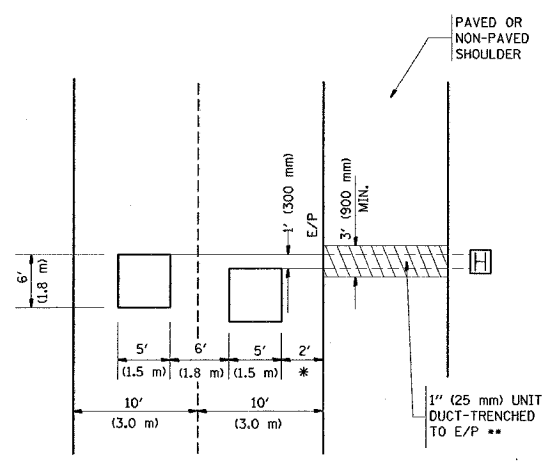
SCALE: VERT. DATE 1/12/2005  
 HORIZ.  
 DRAWN BY  
 CHECKED BY  
 TC-10

62430

|                       |          |                  |              |           |
|-----------------------|----------|------------------|--------------|-----------|
| F.A. R/O.             | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 360                   | 3321-125 | COOK             | 24           | 24        |
| STA.                  | TO STA.  |                  |              |           |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT |              |           |

**LOOPS NEXT TO SHOULDERS**

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

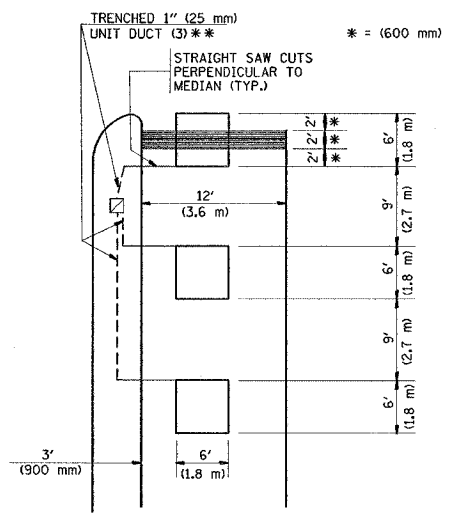


\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

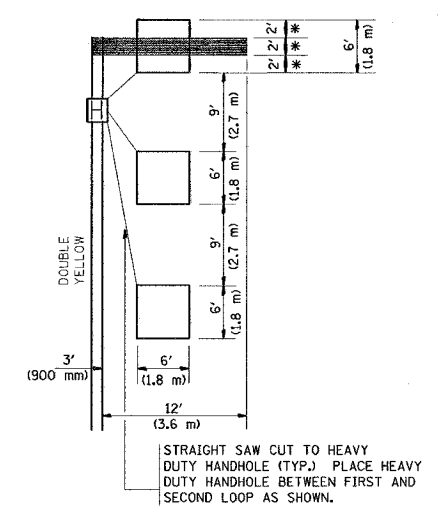


\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

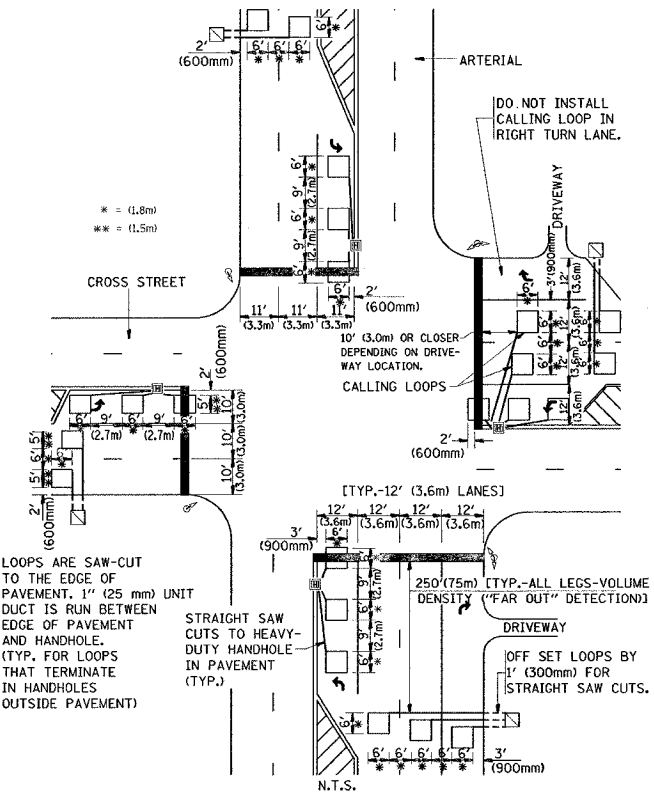
**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**

\* = (600 mm)



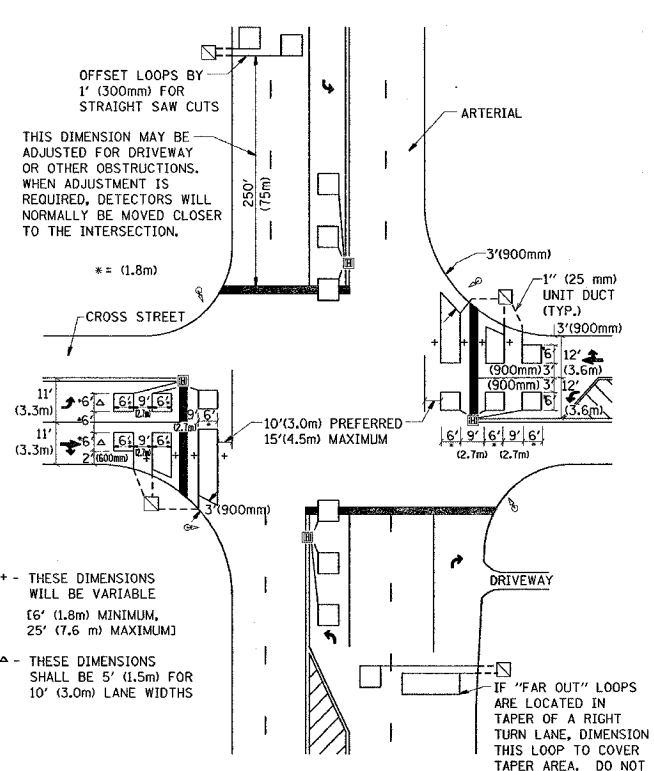
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1  
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2  
N.T.S.

**NOTES:**

**VEHICLES LOOP DETECTORS**

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**PLACEMENT OF DETECTORS**

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

**NOTE:**

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT 1  
DETECTOR LOOP  
INSTALLATION DETAILS  
FOR ROADWAY RESURFACING**

SCALE: NONE  
DATE: 1/12/2005  
DRAWN BY CADD  
DESIGNED BY  
CHECKED BY R.K.F.  
TSOT

REVISION DATE: