

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-----------|--------|--------------|-----------|
| 350 | 3321-S-RS | COOK | 25 | 1 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

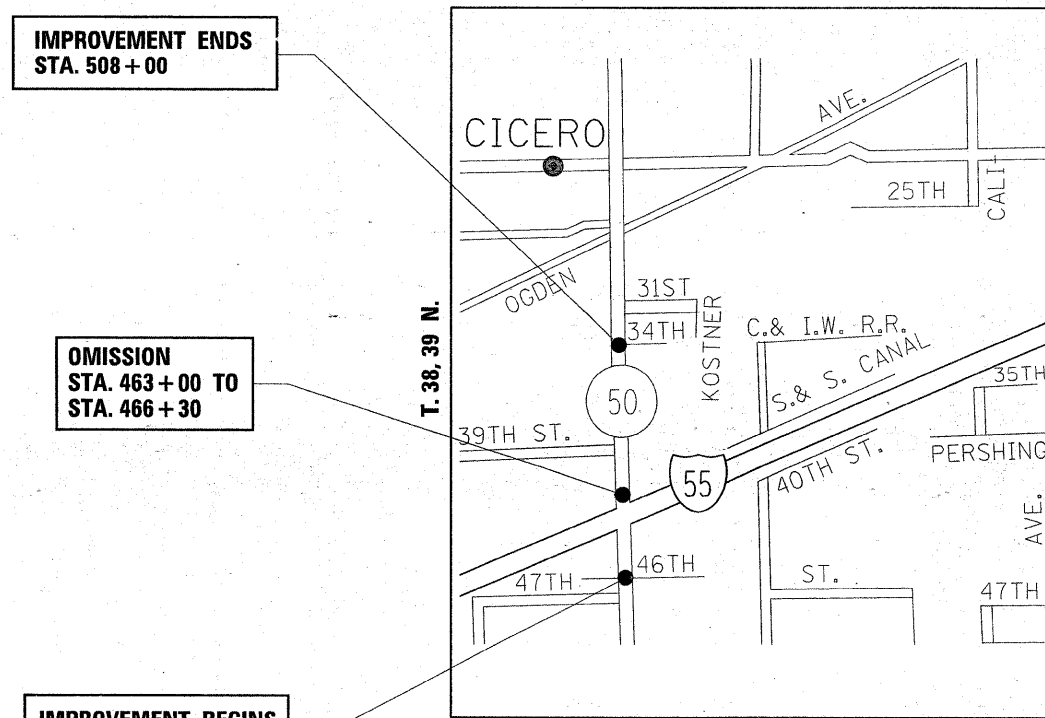
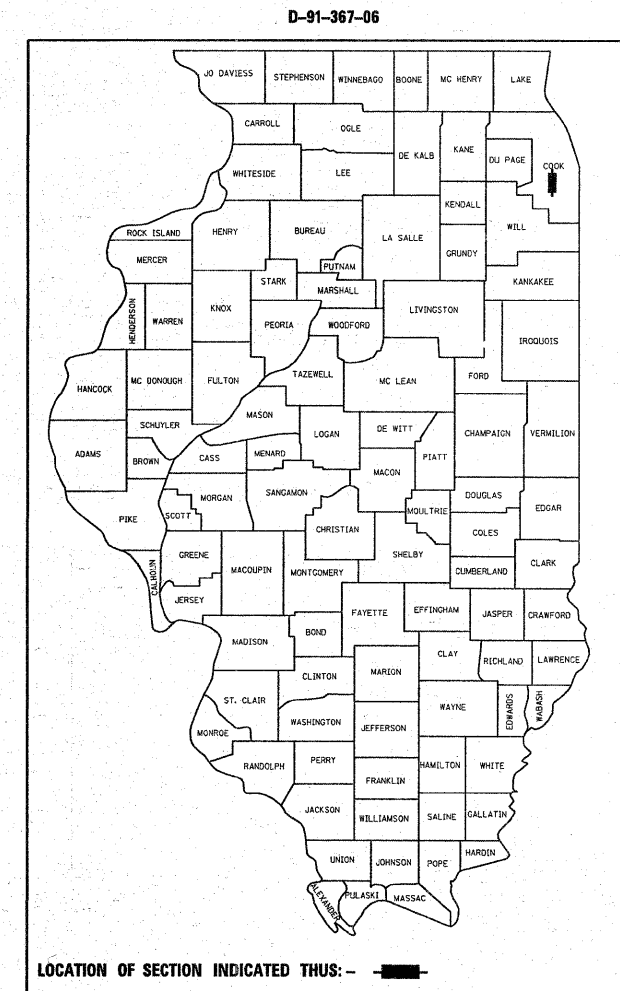
F.A.P. 350: IL. ROUTE 50 (CICERO AVE.)
34TH ST. TO 46TH ST. & AT I-55
SECTION: 3321-S-RS
PROJECT: E 5P-0350 (032)
RESURFACING (MAINTENANCE)
COOK COUNTY
C-91-367-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE
TOWN OF CICERO AND CITY OF CHICAGO

AVERAGE DAILY TRAFFIC
IL. 50, 2007 ADT=50,600

POSTED SPEED LIMIT
IL. 50, 30-35 MPH



IMPROVEMENT ENDS
STA. 508 + 00

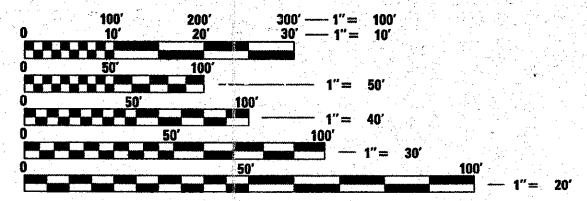
OMISSION
STA. 463 + 00 TO
STA. 466 + 30

IMPROVEMENT BEGINS
STA. 428 + 16

LAKE & WEST TWPS.

LOCATION MAP

GROSS LENGTH OF IMPROVEMENT = 7,984 L.F. (1.512 MILES)
NET LENGTH OF IMPROVEMENT = 7,654 L.F. (1.450 MILES)



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.

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

CONTRACT NO. 60B54

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 5, 20 09
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8, 20 09
Charles S. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 20 09
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DISTRICT 1 - DESIGN PLAN PREPARATION ENGINEER: KEN ENO/DAN WILGREEN (847) 705-4240

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------|--|
| 1 | COVER SHEET |
| 2 | INDEX OF SHEETS, LIST OF STATE STANDARDS, AND PLAN NOTES |
| 3 | SUMMARY OF QUANTITIES |
| 4-7 | TYPICAL CROSS SECTIONS |
| 8-10 | EXISTING AND PROPOSED ROADWAY AND PAVEMENT MARKING PLANS |
| 11,12 | EXISTING AND PROPOSED DRAINAGE PLANS |
| 13,14 | DETECTOR LOOP REPLACEMENT PLANS |
| 15 | DETAILS FOR FRAMES & LIDS ADJUSTMENT WITH MILLING |
| 16 | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT |
| 17 | CURB & GUTTER REMOVAL & REPLACEMENT |
| 18 | BUTT JOINT AND HMA TAPER DETAIL |
| 19 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS |
| 20 | TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) |
| 21 | DISTRICT ONE TYPICAL PAVEMENT MARKINGS |
| 22 | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) |
| 23 | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING |
| 24 | ARTERIAL ROAD INFORMATION SIGN |
| 25 | DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING |

STANDARDS

| STD. NO. | DESCRIPTION |
|-----------|--|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 442201-03 | CLASS C & D PATCHES |
| 606001-04 | CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER |
| 701336-05 | LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEED >45 MPH |
| 701501-05 | LANE CLOSURE, 2L, 2W, UNDIVIDED FOR SPEEDS <45 MPH |
| 701602-04 | URBAN LANE CLOSURE, MULTILANE 2W WITH BIDIRECTIONAL LEFT TURN LANE |
| 701606-06 | URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN |
| 701701-06 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701901-01 | TRAFFIC CONTROL DEVICES |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |

PLAN NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE TOWN OF CICERO AND CITY OF CHICAGO.

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES 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 JOINT AND HMA TAPER, DETAILS," SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

10 FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL OVERHEAD, SURFACE, AND UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ALL PROPOSED DRIVEWAYS SHALL BE HOT-MIX ASPHALT UNLESS OTHERWISE SPECIFIED AS PORTLAND CEMENT CONCRETE ON THE PLAN SHEETS.

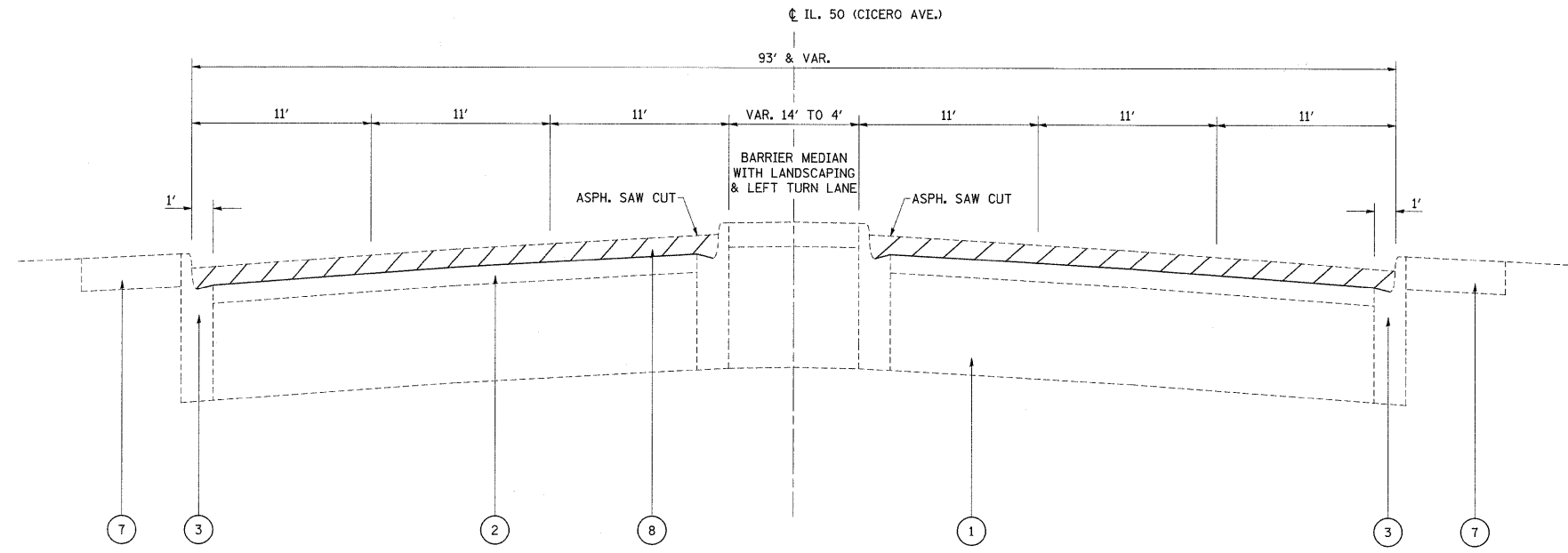
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.

| | | | | | | | | | | | | |
|---|------------------------|------------|--------------------|---|----------------------------------|--|--|---------------------|--------------|---|--------------|-----------|
| FILE NAME = | USER NAME = drivakosgn | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL ROUTE 50 (CICERO AVE.) | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pwork\PWIDOT\DRIVAKOSGN\des9248\136786-sht-plan.dgn | DRAWN - | REVISED - | 350 | | | | | 3321-S-RS | COOK | 25 | 2 | |
| PLOT SCALE = 50,0000' / IN. | CHECKED - | REVISED - | CONTRACT NO. 60B54 | | | | | | | | | |
| PLOT DATE = 2/9/2009 | DATE - | REVISED - | SCALE: NONE | | | | | SHEET NO. OF SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | |

| SUMMARY OF QUANTITIES | | | CONSTRUCTION TYPE CODE | | | | | SUMMARY OF QUANTITIES | | | CONSTRUCTION TYPE CODE | | | | | | | |
|-----------------------|---|--------|------------------------------|-------------------------|--|--|--|-----------------------|------------|--|------------------------|------------------------------|-------------------------|--|--|--|--|--|
| CODE NO | ITEM | UNIT | URBAN TOTAL QUANTITIES | 1000 FEDERAL 100% | | | | | CODE NO | ITEM | UNIT | URBAN TOTAL QUANTITIES | 1000 FEDERAL 100% | | | | | |
| 20800150 | TRENCH BACKFILL | CU YD | 111 | 111 | | | | | X0322752 | WORKZONE PAVEMENT MARKING REMOVAL | FOOT | 696 | 696 | | | | | |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 60 | 60 | | | | | 70300240 | TEMPORARY PAVEMENT MARKING - LINE 6" | FOOT | 4360 | 4360 | | | | | |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 300 | 300 | | | | | 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12" | FOOT | 2576 | 2576 | | | | | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 23 | 23 | | | | | 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 1080 | 1080 | | | | | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 2 | 2 | | | | | * 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SO FT | 1330 | 1330 | | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SO YD | 328 | 328 | | | | | * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 20508 | 20508 | | | | | |
| 40601005 | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES | TON | 731 | 731 | | | | | * 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 4360 | 4360 | | | | | |
| 40603595 | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 | TON | 7083 | 7083 | | | | | * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 2576 | 2576 | | | | | |
| 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SO YD | 72275 | 72275 | | | | | * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 1080 | 1080 | | | | | |
| 44001700 | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT | FOOT | 150 | 150 | | | | | * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 460 | 460 | | | | | |
| 44002229 | HOT-MIX ASPHALT REMOVAL OVER PATCHES, 7 1/4" | SO YD | 1000 | 1000 | | | | | 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 460 | 460 | | | | | |
| 44201741 | CLASS D PATCHES, TYPE II, 8 INCH | SO YD | 800 | 800 | | | | | * 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 1053 | 1053 | | | | | |
| 44201745 | CLASS D PATCHES, TYPE III, 8 INCH | SO YD | 400 | 400 | | | | | X0322256 | TEMPORARY INFORMATION SIGNING | SO FT | 52 | 52 | | | | | |
| 44201747 | CLASS D PATCHES, TYPE IV, 8 INCH | SO YD | 600 | 600 | | | | | X0324409 | STORM SEWER DUCTILE IRON (WATER MAIN REQUIREMENTS) 8" | FOOT | 117 | 117 | | | | | |
| 55039700 | STORM SEWER TO BE CLEANED | FOOT | 1500 | 1500 | | | | | X4067107 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | TON | 2946 | 2946 | | | | | |
| 60201330 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE | EACH | 5 | 5 | | | | | 44004600 | SIDEWALK REMOVAL AND REPLACEMENT | SO FT | 320 | 320 | | | | | |
| 60250200 | CATCH BASINS TO BE ADJUSTED | EACH | 1 | 1 | | | | | XX004933 | STORM SEWERS, DUCTILE IRON (WATER MAIN REQUIREMENTS) 10" | FOOT | 334 | 334 | | | | | |
| 60255410 | CATCH BASINS TO BE CLEANED | EACH | 40 | 40 | | | | | Z0048665 | RAILROAD PROTECTIVE LIABILITY INSURANCE | L SUM | 1 | 1 | | | | | |
| 60300310 | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) | EACH | 36 | 36 | | | | | 20076600 | TRAINEES | HOUR | 500 | 500 | | | | | |
| 60404940 | FRAMES AND GRATES, TYPE 23 | EACH | 1 | 1 | | | | | XX005137 | PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (COLD MILLING) 1-1/2" | SO YD | 38 | 38 | | | | | |
| 60406100 | FRAMES AND LIDS, TYPE 1, CLOSED LID | EACH | 6 | 6 | | | | | 20010555 | DITCH CLEANING | FOOT | 330 | 330 | | | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 6 | 6 | | | | | | | | | | | | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | | | | | | | | | | | | | |
| 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 | 1 | | | | | | | | | | | | | | |
| 70102625 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701606 | L SUM | 1 | 1 | | | | | | | | | | | | | | |
| 70102632 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701602 | L SUM | 1 | 1 | | | | | | | | | | | | | | |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 1 | | | | | | | | | | | | | | |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 2088 | 2088 | | | | | | | | | | | | | | |
| 70300210 | TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS | SO FT | 960 | 960 | | | | | | | | | | | | | | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 20508 | 20508 | | | | | | | | | | | | | | |

▲ NON-PART (100% STATE)

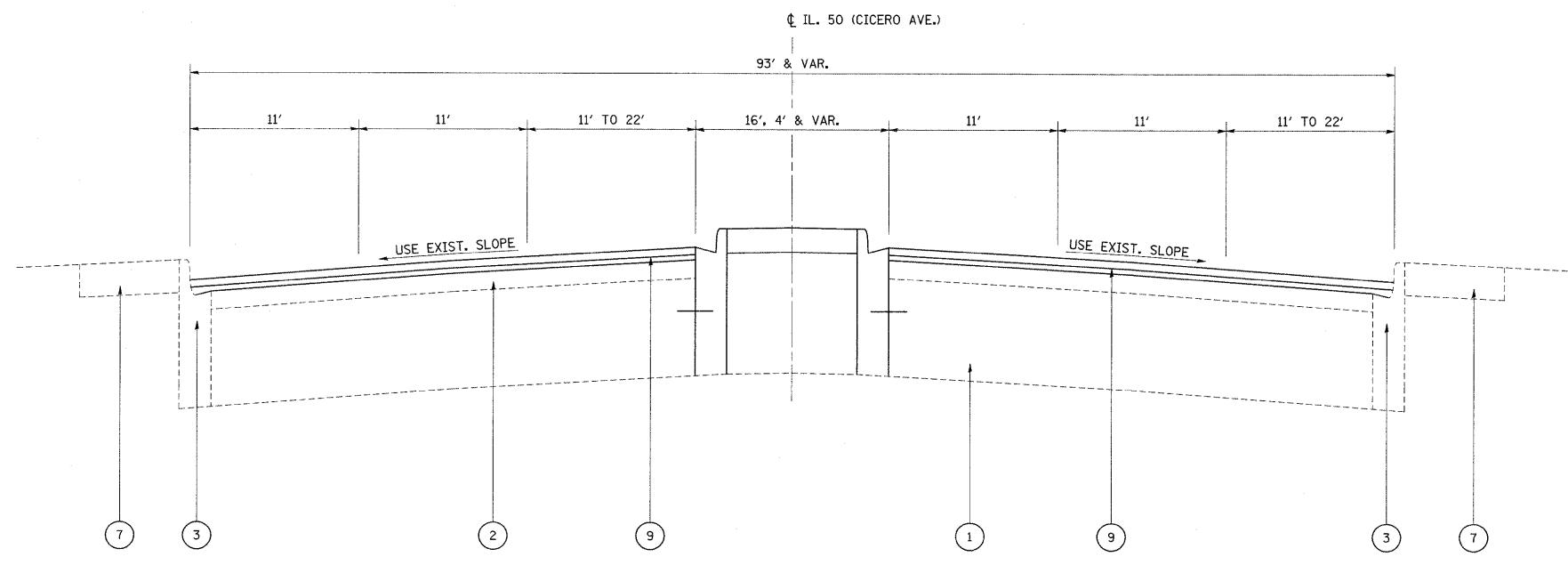
© V08D
* Specialty Items



EXISTING TYPICAL CROSS SECTION
IL. ROUTE 50 (BETWEEN 46TH STREET & 43RD STREET)
 STA 428+16 TO STA. 448+00

LEGEND

- ① EXIST. P.C. CONCRETE BASE COURSE OR PAVEMENT
- ② EXIST. BITUMINOUS SURFACE (VARIES 3 1/2" TO 6") AFTER THE MILLING
- ③ EXIST. COMB. CONC. C&G TYPE EXIST. B-6.24
- ④ EXIST. SUB-BASE GRAN. MATERIAL, TYPE B, 4"
- ⑤ EXIST. P.C. CONC. BASE COURSE, 8"
- ⑥ EXIST. 3/4" EXPANSION TIE ANCHORS
- ⑦ EXIST. TOP SOIL AND SOD 4"
- ⑧ PROP. BITUMINOUS SURFACE REMOVAL, 2 1/2"
- ⑨ POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- ⑩ PROP. POLYMERIZED BITUMINOUS CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"



PROPOSED TYPICAL CROSS SECTION
IL. ROUTE 50 (BETWEEN 46TH STREET & 43RD STREET)
 STA 428+16 TO STA. 448+00

NOTES:

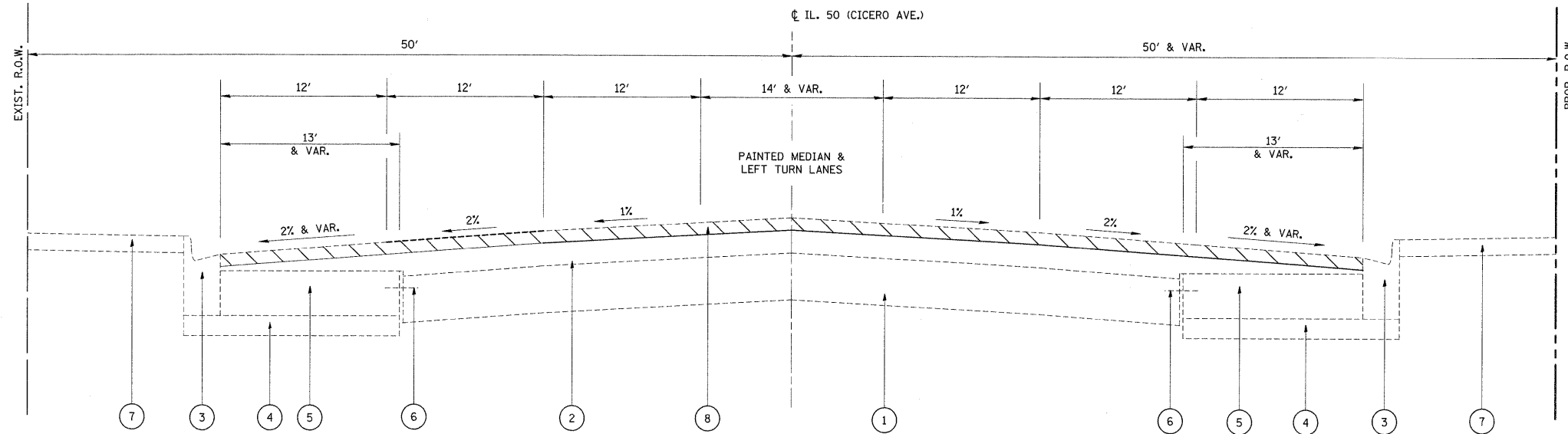
1. SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF LEFT TURN AND RIGHT TURN LANES, BARRIER MEDIAN AND CORRUGATED MEDIAN
2. PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING OF THE ROADWAY

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| | MIXTURE TYPE | AC TYPE | AIR VOIDS (%) |
|---------|--|-------------------------|---------------|
| ROADWAY | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL-9.5MM), 1 3/4" | SBS/SBR PG 70-22 | 4% @ 90 GYR |
| | POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4" | SBS/SBR PG 76-28/-22 | 4% @ 50 GYR |
| PATCHES | CLASS D PATCHES, (BINDER IL-19.0 MM), 9" | PG 64-22* | 4% @ 70 GYR |
| | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER IL-19.0 MM) | PG 64-22* | 4% @ 70 GYR |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

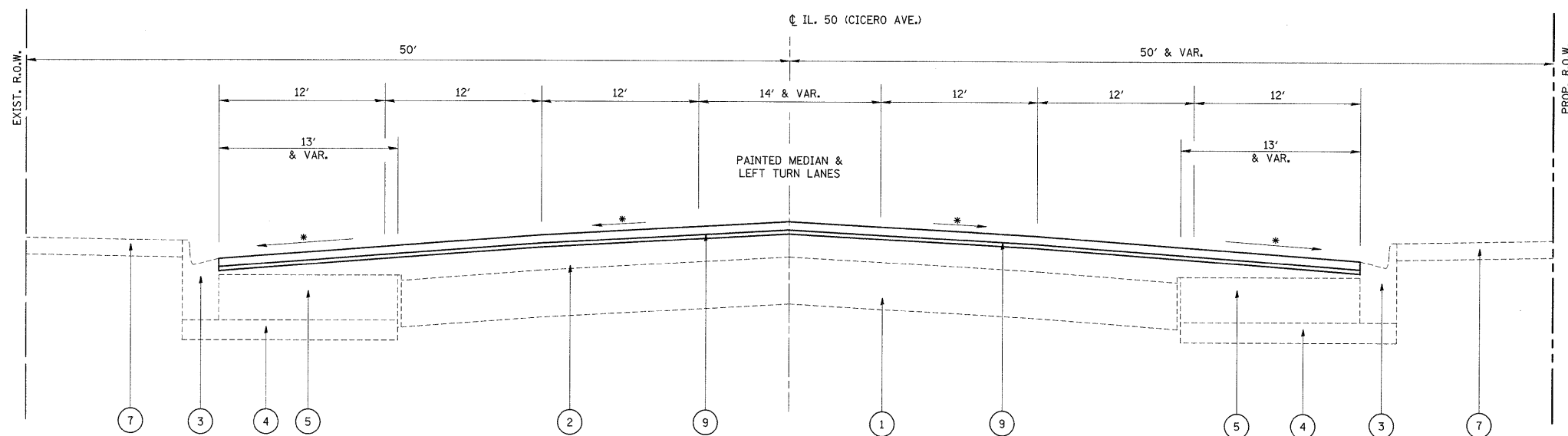
* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22



EXISTING TYPICAL CROSS SECTION

IL. ROUTE 50

STA. 459+00 TO STA. 500+00



PROPOSED TYPICAL CROSS SECTION

IL. ROUTE 50

STA. 459+00 TO STA. 500+00

* MATCH THE EXISTING SLOPE

LEGEND

- 1 EXIST. P.C. CONCRETE BASE COURSE OR PAVEMENT
- 2 EXIST. BITUMINOUS SURFACE (VARIES 3 1/2" TO 6") AFTER THE MILLING
- 3 EXIST. COMB. CONC. C&G TYPE EXIST. B-6.24
- 4 EXIST. SUB-BASE GRAN. MATERIAL, TYPE B, 4"
- 5 EXIST. P.C. CONC. BASE COURSE, 8"
- 6 EXIST. 3/4" EXPANSION TIE ANCHORS
- 7 EXIST. TOP SOIL AND SOD 4"
- 8 PROP. BITUMINOUS SURFACE REMOVAL, 2 1/2"
- 9 POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- 10 PROP. POLYMERIZED BITUMINOUS CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"

NOTES:

1. SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF LEFT TURN AND RIGHT TURN LANES, BARRIER MEDIAN AND CORRUGATED MEDIAN
2. PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING OF THE ROADWAY

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| | MIXTURE TYPE | AC TYPE | AIR VOIDS (%) |
|---------|--|----------------------|---------------|
| ROADWAY | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL-9.5MM), 1 3/4" | SBS/SBR PG 70-22 | 4% @ 90 GYR |
| | POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4" | SBS/SBR PG 76-28/-22 | 4% @ 50 GYR |
| PATCHES | CLASS D PATCHES, (BINDER IL-19.0 MM), 9" | PG 64-22* | 4% @ 70 GYR |
| | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER IL-19.0 MM) | PG 64-22* | 4% @ 70 GYR |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

FILE NAME = D:\36706-shr-plan.dgn

USER NAME = geglianobt
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 PLOT DATE = 2/9/2009

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 DATE -

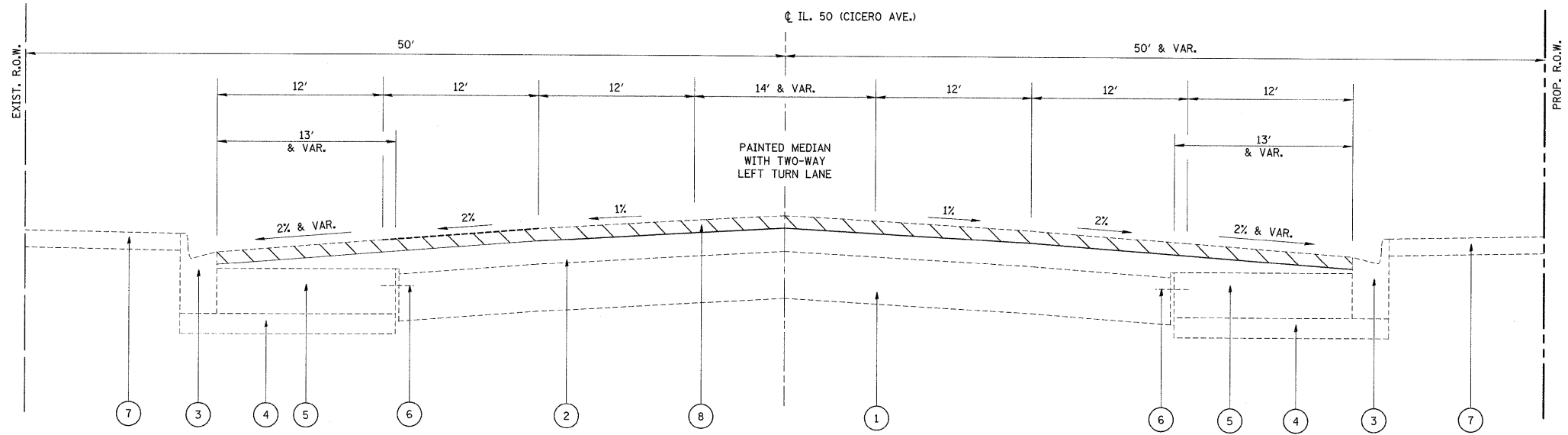
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 50 (CICERO AVENUE)
 (34TH STREET TO 46TH STREET)
 TYPICAL SECTIONS**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

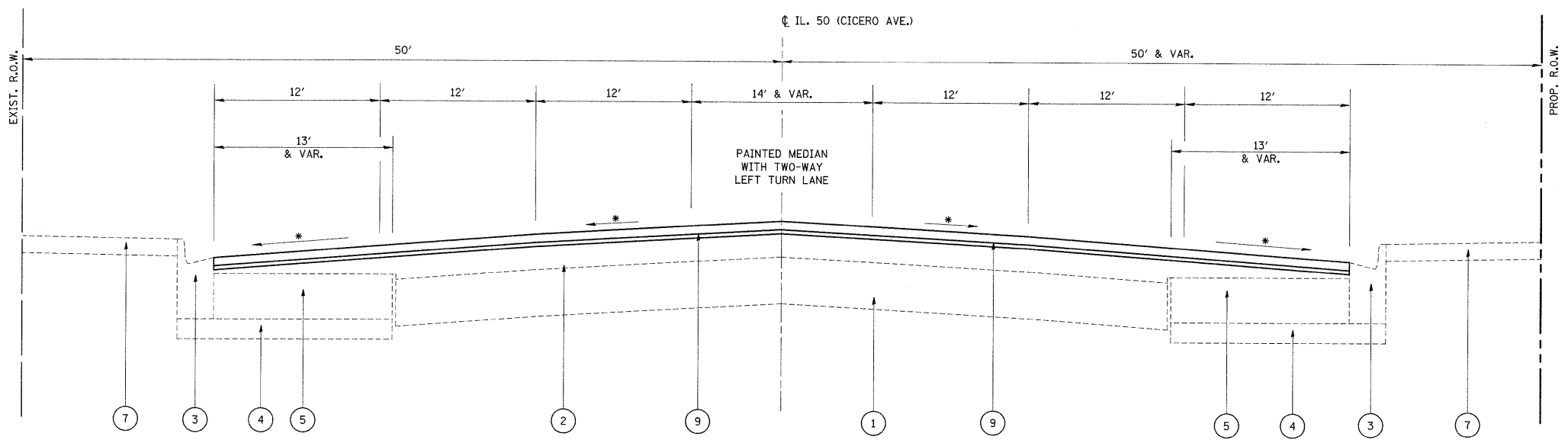
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|--------------------|
| 350 | 3321-S-RS | COOK | 25 | 6 |
| | | | | CONTRACT NO. 60B54 |
| ILLINOIS FED. AID PROJECT | | | | |



EXISTING TYPICAL CROSS SECTION
IL. ROUTE 50
 STA. 500+00 TO STA. 508+00

LEGEND

- ① EXIST. P.C. CONCRETE BASE COURSE OR PAVEMENT
- ② EXIST. BITUMINOUS SURFACE (VARIES 3 1/2" TO 6") AFTER THE MILLING
- ③ EXIST. COMB. CONC. C&G TYPE EXIST. B-6.24
- ④ EXIST. SUB-BASE GRAN. MATERIAL, TYPE B, 4"
- ⑤ EXIST. P.C. CONC. BASE COURSE, 8"
- ⑥ EXIST. 3/4" EXPANSION TIE ANCHORS
- ⑦ EXIST. TOP SOIL AND SOD 4"
- ⑧ PROP. BITUMINOUS SURFACE REMOVAL, 2 1/2"
- ⑨ POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- ⑩ PROP. POLYMERIZED BITUMINOUS CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"



PROPOSED TYPICAL CROSS SECTION
IL. ROUTE 50
 STA. 500+00 TO STA. 508+00
 * MATCH THE EXISTING SLOPE

NOTES:

1. SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF LEFT TURN AND RIGHT TURN LANES, BARRIER MEDIAN AND CORRUGATED MEDIAN
2. PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING OF THE ROADWAY

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| | MIXTURE TYPE | AC TYPE | AIR VOIDS (%) |
|---------|--|----------------------|---------------|
| ROADWAY | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL-9.5MM), 1 3/4" | SBS/SBR PG 70-22 | 4% @ 90 GYR |
| | POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4" | SBS/SBR PG 76-28/-22 | 4% @ 50 GYR |
| PATCHES | CLASS D PATCHES, (BINDER IL-19.0 MM), 9" | PG 64-22* | 4% @ 70 GYR |
| | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER IL-19.0 MM) | PG 64-22* | 4% @ 70 GYR |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

FILE NAME = D136706-shr-plan.vdgn

USER NAME = geglianobt
 PLOT SCALE = 50,000' / IN.
 PLOT DATE = 2/9/2009

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

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 REVISED -

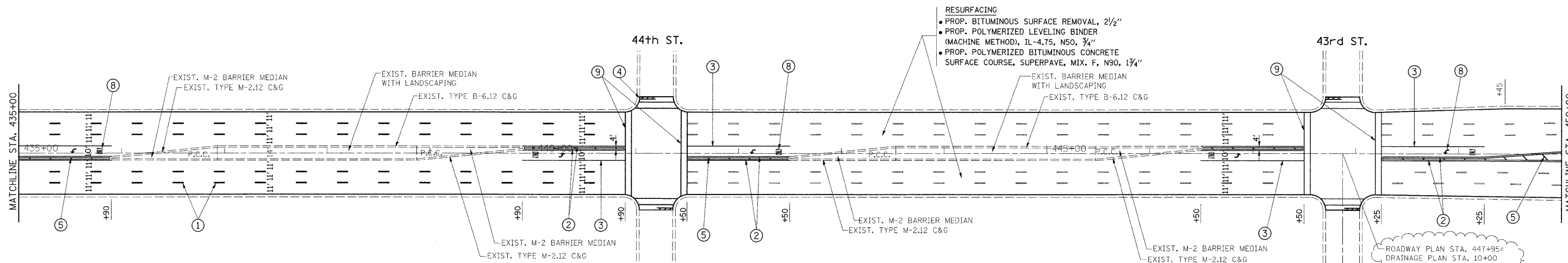
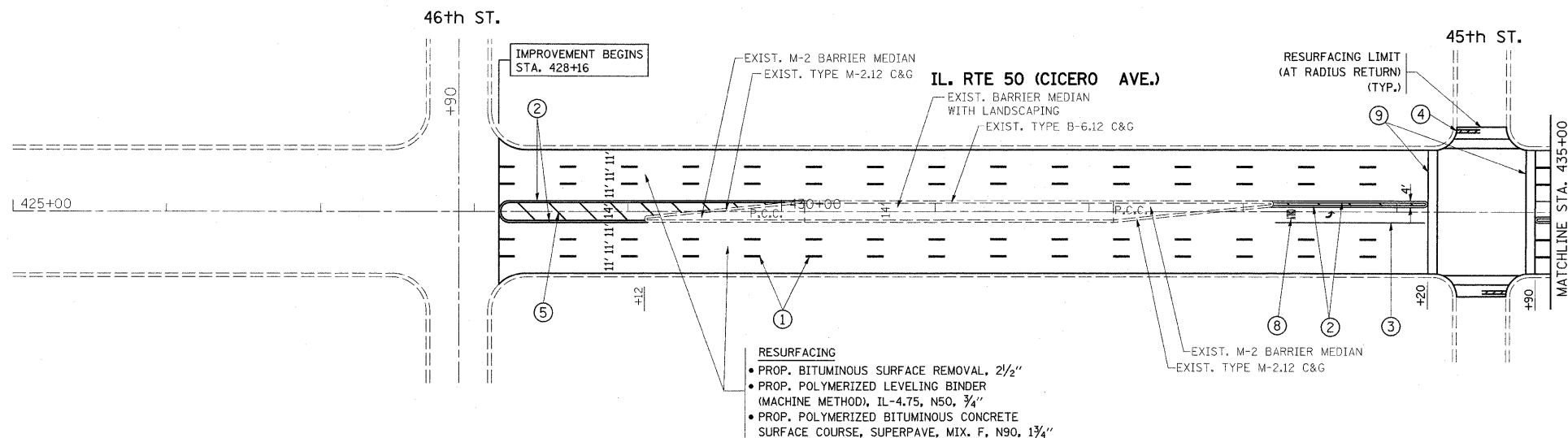
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 50 (CICERO AVENUE)
(34TH STREET TO 46TH STREET)
TYPICAL SECTIONS

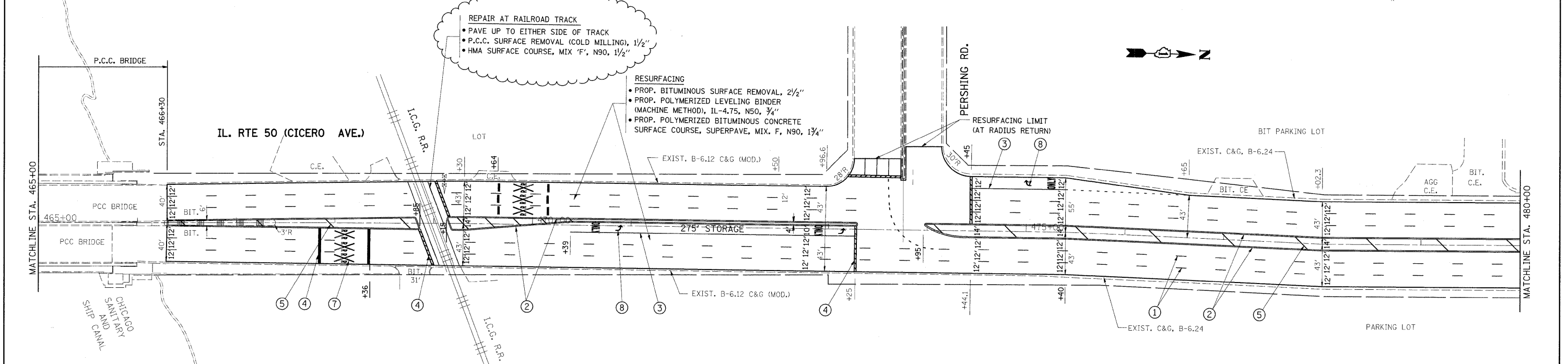
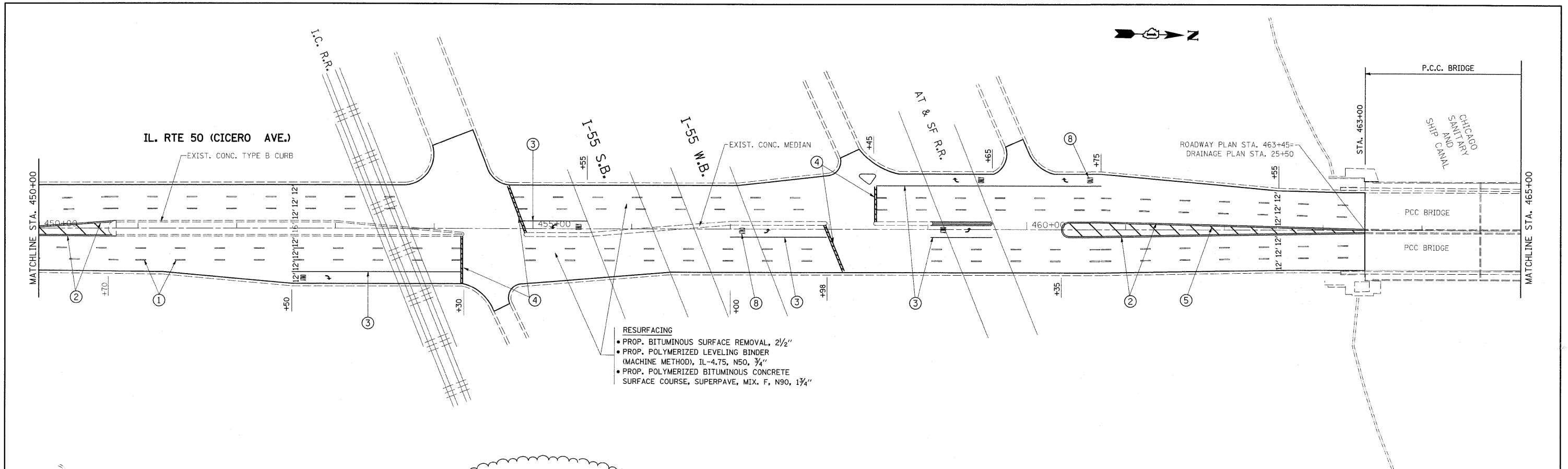
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|--------------------|-------------------|-------------|---------------------------|-------------|
| F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 7 |
| CONTRACT NO. 60B54 | | | ILLINOIS FED. AID PROJECT | |

PAVEMENT MARKING LEGEND

- ① PROPOSED THERMOPLASTIC PAVEMENT MARKING LANE LINE WHITE, 4" SKIP-DASH (10' DASH, 30' SKIP) (TYP.)
- ② PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE YELLOW SOLID LINE @ 11" C-C, (TYP.)
- ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE (TYP.)
- ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24" WHITE (STOP BAR) (TYP.)
- ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, DIAGONAL 12" YELLOW @ 75' C-C, (TYP.)
- ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4" YELLOW, 5 1/2" C-C (TYP.)
- ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING AT RAILROAD - HIGHWAY GRADE CROSSING
- ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- ⑨ PROPOSED THERMOPLASTIC PAVEMENT MARKING CROSSWALK LINE, 6" WHITE, 6' APART (MIN.)



| | | | | | | | | | | | | |
|---|-----------------------------|------------|-----------|---|---|--------------------|---------------------|----------------------------------|---------------------------|-------------|--|--|
| FILE NAME = | USER NAME = ulrichkd | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL. RTE. 50 (CICERO AVENUE) (34TH STREET TO 46TH STREET) ROADWAY AND PAVEMENT MARKING PLAN | F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 8 | | |
| ct:\pw_work\NPWIDOT\ULRICHK\D\dms92488\13706-shr-plan.dgn | PLOT SCALE = 50.0000' / IN. | DRAWN - | REVISED - | | | SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. 425+00.00 TO STA. 450+00.00 | ILLINOIS FED. AID PROJECT | | | |
| | PLOT DATE = 3/31/2009 | CHECKED - | REVISED - | | | CONTRACT NO. 60B54 | | | | | | |
| | | DATE - | REVISED - | | | | | | | | | |



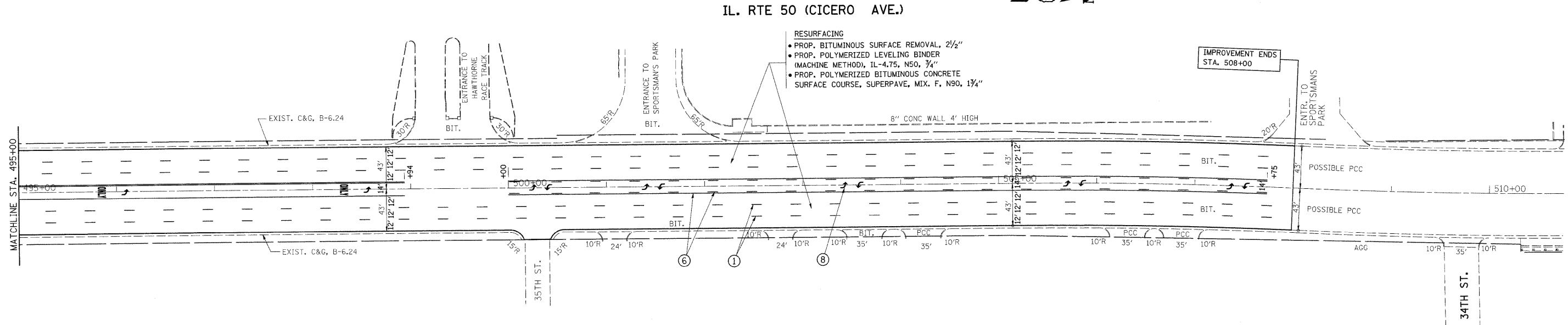
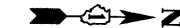
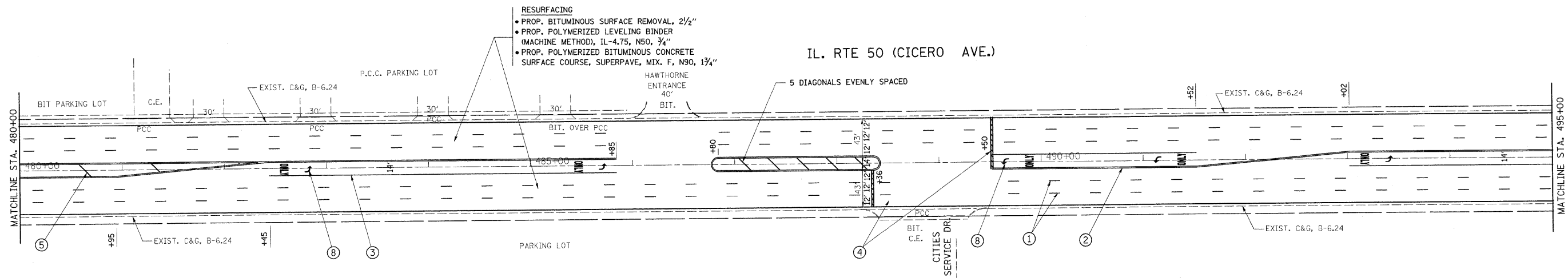
PAVEMENT MARKING LEGEND

- | | |
|---|---|
| ① PROPOSED THERMOPLASTIC PAVEMENT MARKING LANE LINE WHITE, 4" SKIP-DASH (10' DASH, 30' SKIP) (TYP.) | ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4" YELLOW, 5 1/2" C-C (TYP.) |
| ② PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE YELLOW SOLID LINE @ 11" C-C, (TYP.) | ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING AT RAILROAD - HIGHWAY GRADE CROSSING |
| ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE (TYP.) | ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.) |
| ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24" WHITE (STOP BAR) (TYP.) | ⑨ PROPOSED THERMOPLASTIC PAVEMENT MARKING CROSSWALK LINE, 6" WHITE, 6' APART (MIN.) |
| ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, DIAGONAL 12" YELLOW @ 75' C-C, (TYP.) | |

REVISED 03-31-09

| | | | | | | | | | | | | |
|--|---------------------|------------|---------------------------|---|---|---------------------|----------------------------------|--------------------|-----------------|-------------|--|--|
| FILE NAME = c:\pw_work\p\WIDOT\ULRICH\0\dms92488\DI3786-sht-plan.dgn | USER NAME = ulrichd | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL. RTE. 50 (CICERO AVENUE) (34TH STREET TO 46TH STREET) ROADWAY AND PAVEMENT MARKING PLAN | F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 9 | | |
| PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - | SCALE: 1" = 50' | | | SHEET NO. OF SHEETS | STA. 450+00.00 TO STA. 480+00.00 | CONTRACT NO. 60B54 | | | | |
| PLOT DATE = 3/31/2009 | DATE - | REVISED - | ILLINOIS FED. AID PROJECT | | | | | | | | | |
| | | | | | | | | | | | | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 350 | 3321-S-RS | COOK | 25 | 6 |
| STA. 480+00 | | TO STA. 510+00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |



NOTE:
ALL PAVEMENT MARKINGS AS PER DISTRICT 1 TYPICAL PAVEMENT MARKINGS AND STANDARD 780001

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION IL 50 (CICERO AVE.) 34th ST. TO 46th ST. ROADWAY AND PAVEMENT MARKING PLANS |
|-----------|------|---|
| NAME | DATE | |
| | | |
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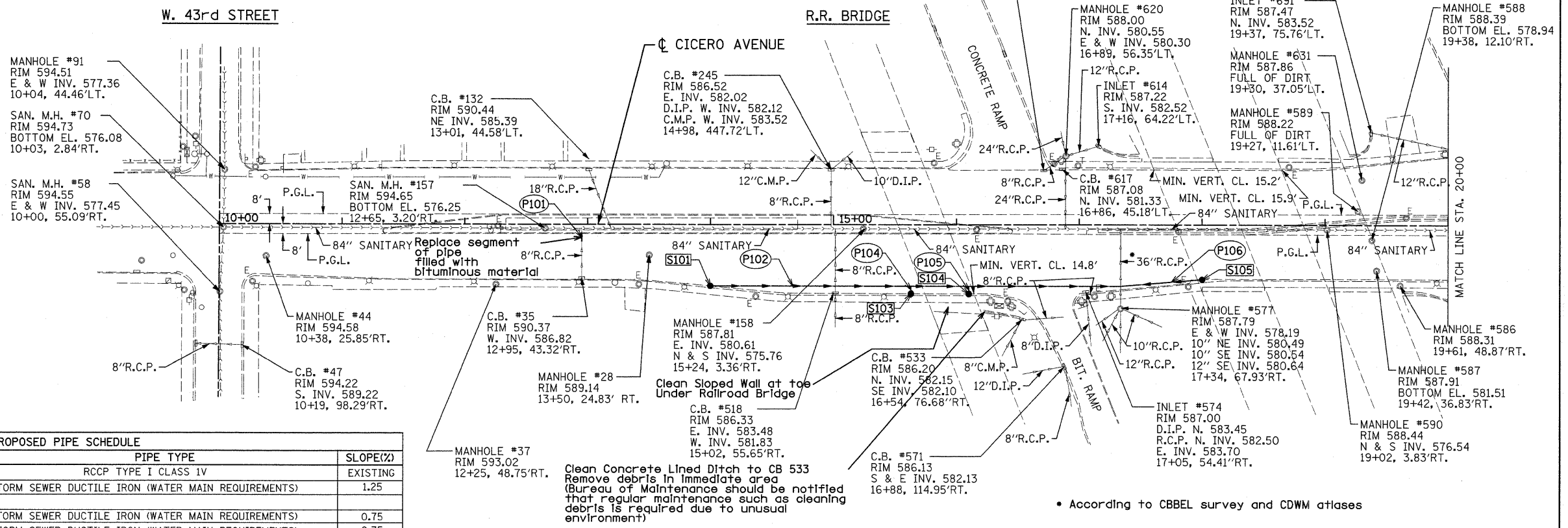
SCALE: 1"=50'
DATE 2/9/2009
DRAWN BY
CHECKED BY

| PROPOSED DRAINAGE STRUCTURE TABLE | | | | | | | | | | |
|-----------------------------------|---|----------|----------|--------|---------|---------|---------|---------|------------|---------------|
| STRUCTURE NO. | STRUCTURE TYPE | STATION | OFFSET | RIM | INV (N) | INV (S) | INV (W) | INV (E) | STANDARD # | FRAME & GRATE |
| S101 | CATCH BASIN WITH HALF TRAP, 4' DIAMETER | 14+00.00 | 49.85 RT | 588.06 | 584.00 | | | | 602001 | 604001-02 |
| S103 | CATCH BASIN WITH HALF TRAP, 4' DIAMETER | 15+63.00 | 55.92 RT | 586.83 | | | 582.90 | 583.00 | 602001 | 604001-02 |
| S104 | CATCH BASIN WITH HALF TRAP, 4' DIAMETER | 16+10.00 | 56.02 RT | 587.04 | | | | | 602001 | 604001-02 |
| S105 | CATCH BASIN WITH HALF TRAP, 4' DIAMETER | 18+00.00 | 44.29 RT | 587.57 | | 583.50 | | | 602001 | 604001-02 |
| S106 | CATCH BASIN WITH HALF TRAP, 4' DIAMETER | 21+47.76 | 79.96 RT | 592.50 | | 588.50 | | | 602001 | NEENAH R2548 |



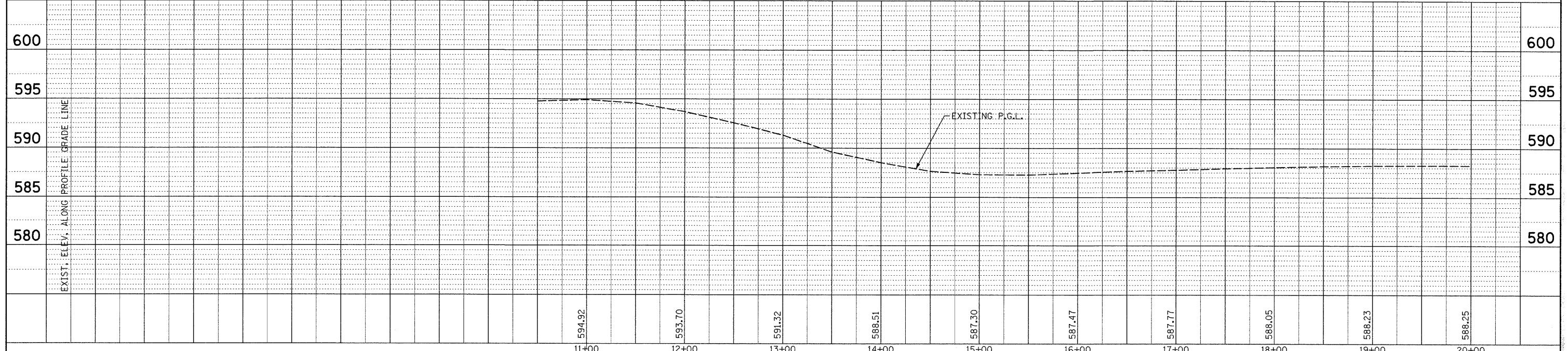
LEGEND:

| BOUNDARY LINES/SYMBOLS | EXISTING | PROPOSED |
|--|----------|----------|
| REFERENCE LINE/CENTERLINE AND STATIONING | —+00— | —+00— |
| SWALE | —+— | —+— |
| DITCH CHANNEL | —+— | —+— |
| DRAINAGE SUMMIT | —+— | —+— |
| BRIDGE LOCATION - BRIDGE NO. | —+— | —+— |
| STORM SEWER | —+— | —+— |
| SANITARY SEWER | —+— | —+— |
| FLARED END SECTION | —+— | —+— |
| CATCH BASIN | —+— | —+— |
| HEADWALL | —+— | —+— |
| INLET | —+— | —+— |
| MANHOLE | —+— | —+— |
| RIGHT OF WAY LINE | —+— | —+— |
| STORM SEWER CALLOUTS | —+— | —+— |
| STORM STRUCTURE CALLOUTS | —+— | —+— |



| PROPOSED PIPE SCHEDULE | | | | | | |
|------------------------|----------|---------|-------------|-----------|--|----------|
| PIPE NO. | FROM | TO | LENGTH (FT) | DIA. (IN) | PIPE TYPE | SLOPE(%) |
| P101* | EXISTING | MEDIAN | 6 | 8 | RCCP TYPE I CLASS 1V | EXISTING |
| P102 | S101 | CB 518 | 334 | 10 | STORM SEWER DUCTILE IRON (WATER MAIN REQUIREMENTS) | 1.25 |
| P104 | S103 | S104 | 6 | 8 | STORM SEWER DUCTILE IRON (WATER MAIN REQUIREMENTS) | 0.75 |
| P105 | S104 | CB 533 | 6 | 8 | STORM SEWER DUCTILE IRON (WATER MAIN REQUIREMENTS) | 0.75 |
| P106 | S105 | MH 577 | 67 | 8 | STORM SEWER DUCTILE IRON (WATER MAIN REQUIREMENTS) | 0.75 |
| P107 | S106 | INL 761 | 28 | 8 | STORM SEWER DUCTILE IRON (WATER MAIN REQUIREMENTS) | 9.18 |

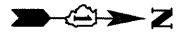
* TELEVISION INSPECTION STOPPED AT APPROXIMATELY 28' FROM INLET AT CURB DUE TO OBSTRUCTION. THE PIPE SHOULD BE REPLACED FROM THIS POINT TO THE MAIN TRUNK LINE



| | | | | | | | | | | | | | | | | |
|---|--------------------|------------|-----------|--|--|--|--|---|--|--|--|---------------------|---------------------------|--------------------|-----------------|--------------|
| FILE NAME = | USER NAME = lszkrf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | IL. ROUTE 50 (CICEERO AVENUE) DRAINAGE PLAN | | | | F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. // |
| ci:\pwwork\pwwork\lszkrf\dms92488\011024\K-shr\p1nprf01.dgn | | DRAWN - | REVISED - | SCALE: 1" = 50' | | | | SHEET NO. OF SHEETS STA. TO STA. | | | | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT NO. 60B52 | | |
| | | CHECKED - | REVISED - | | | | | | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | | | | | | |

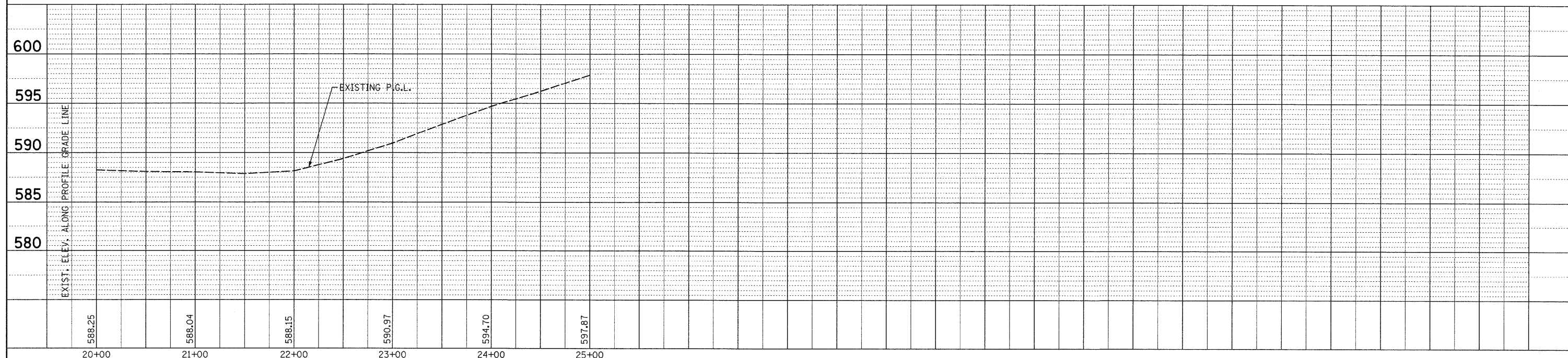
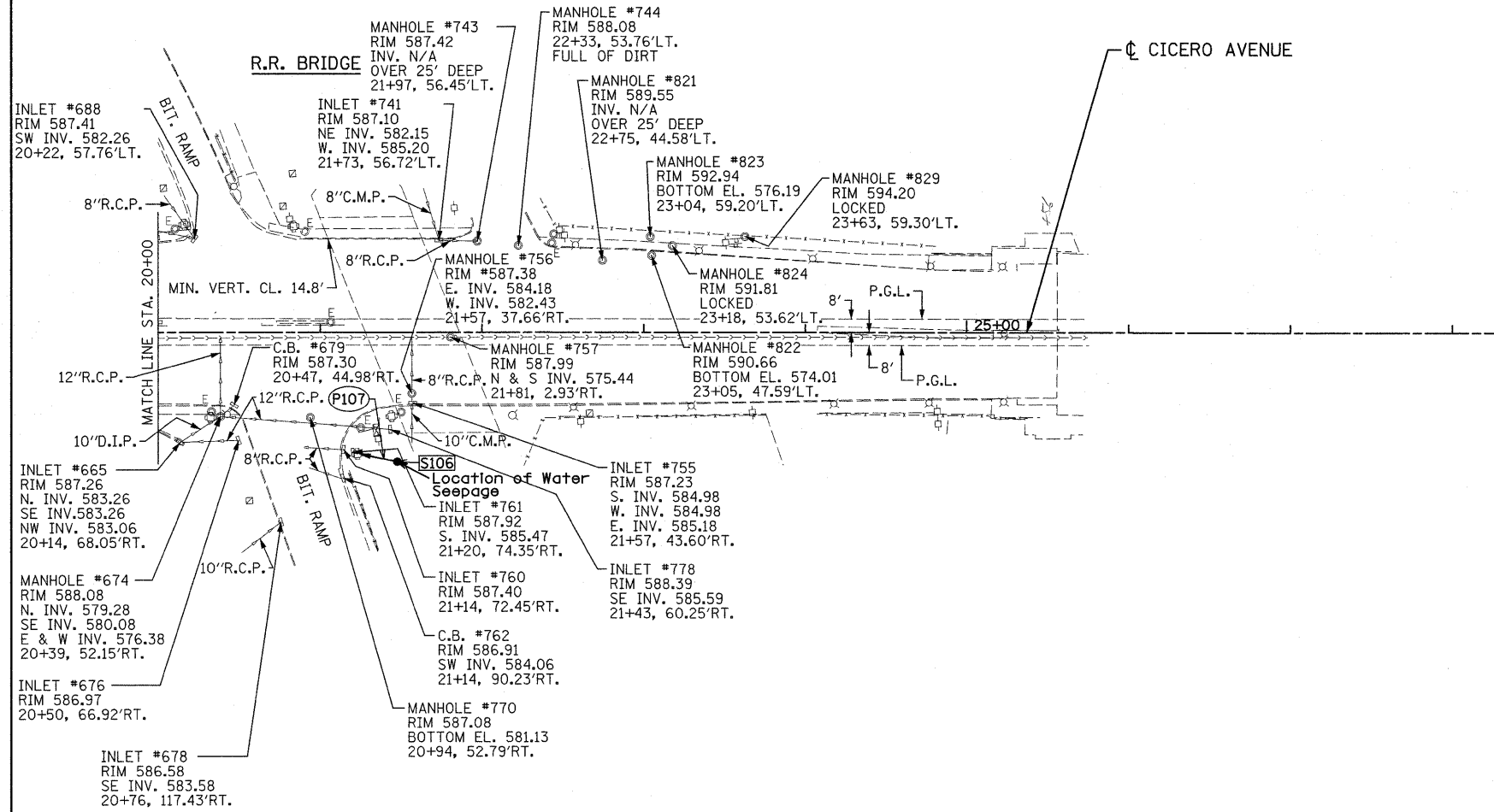
PLAN SURVEYED BY DATE
 PLOTTED BY DATE
 CHECKED BY DATE
 NOTE BOOK NO. OF WAY CHECKED
 NO. CAD FILE NAME

PROFILE SURVEYED BY DATE
 PLOTTED BY DATE
 CHECKED BY DATE
 NOTE BOOK NO. OF WAY CHECKED
 NO. STRUCTURE NOTATIONS CIPRO



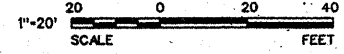
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| PLAN | SURVEYED | DATE |
| | PLOTTED | |
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| PROFILE | SURVEYED | DATE |
| | PLOTTED | |
| | CHECKED | |
| | BY | |
| | NO. | |

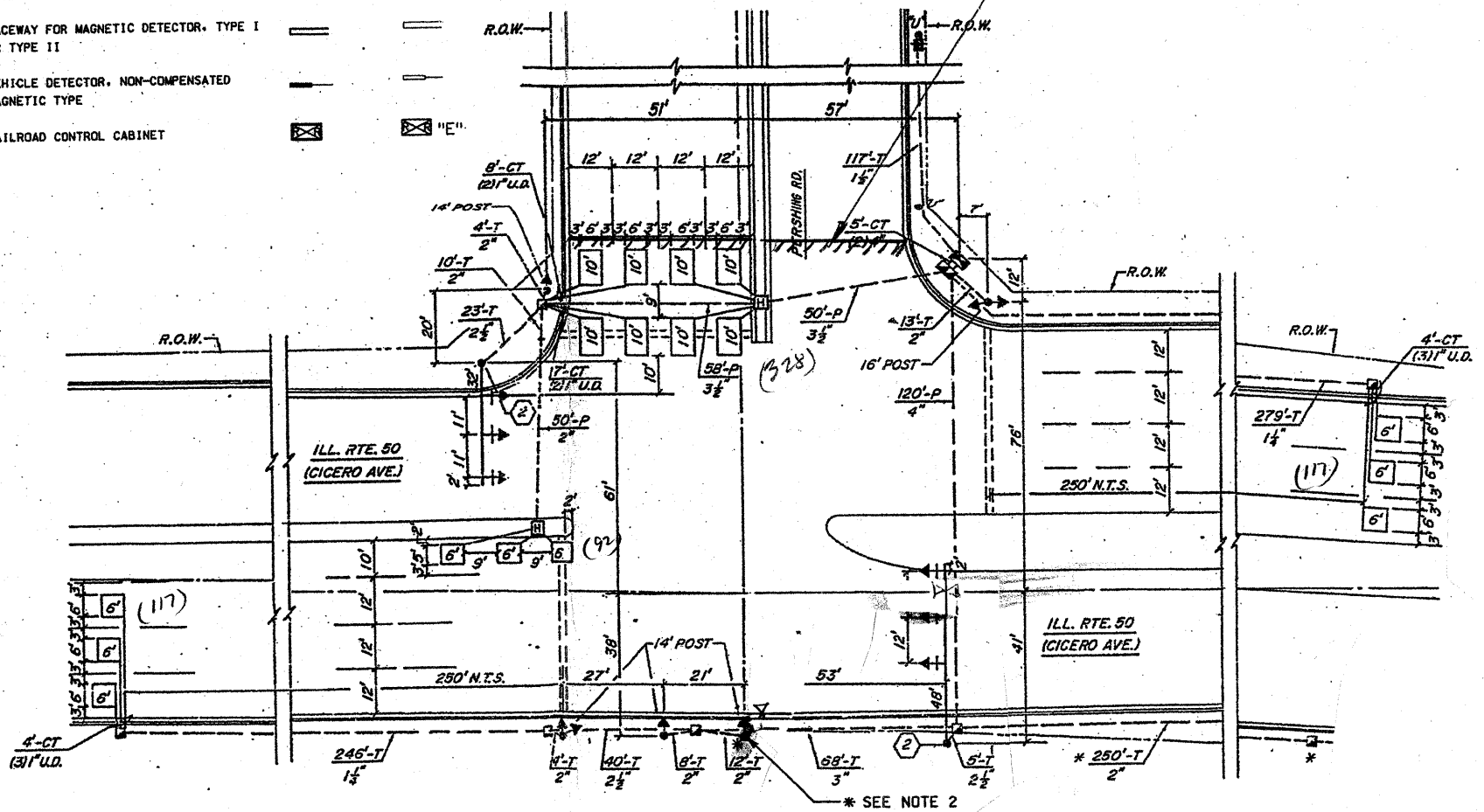


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| FILE NAME = | USER NAME = lszekrf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL. ROUTE 50 (CICERO AVENUE) DRAINAGE PLAN | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\pwwork\FWIDOT\LSZEKRF\dms92488\011024KK-shr-plnprf02.dgn | PLANT SCALE = 50.0000' / IN. | DRAWN - | REVISED - | | | 350 | 3321- S-RS | COOK | 12 | | |
| PLANT DATE = 1/14/2009 | | CHECKED - | REVISED - | | | CONTRACT NO. 60B52 | | | | | |
| | | DATE - | REVISED - | | | SCALE: 1" = 50' | SHEET NO. OF SHEETS STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | |

CONTRACT # 60B54



| TRAFFIC SIGNAL LEGEND | | PROPOSED | EXISTING |
|--|--|----------|----------|
| CONTROLLER | | ⊠ | ⊠ |
| SERVICE INSTALLATION | | ⊠ | ⊠ |
| SIGNAL HEAD | | ▶ | ▶ |
| SIGNAL HEAD WITH BACKPLATE | | ▶ | ▶ |
| SIGNAL HEAD, PEDESTRIAN | | ▶ | ▶ |
| SIGNAL POST | | ● | ○ |
| MAST ARM ASSEMBLY AND POLE, STEEL | | ● | ○ |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | ● | ○ |
| COMMON TRENCH | | CT | CT |
| UNIT DUCT | | UD | UD |
| HANDHOLE | | ■ | ■ |
| HEAVY DUTY HANDHOLE | | ■ | ■ |
| DOUBLE HANDHOLE | | ■ | ■ |
| G.S. CONDUIT IN TRENCH OR PUSHED | | — | — |
| PEDESTRIAN PUSHBUTTON DETECTOR | | ⊙ | ⊙ |
| DETECTOR LOOP | | □ | □ |
| CAST IRON JUNCTION BOX | | ⊖ | ⊖ |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | ▲ | ▲ |
| CONFIRMATION BEACON | | ▲ | ▲ |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | ▶ | ▶ |
| CONDUIT SPLICE | | — | — |
| WOOD POLE | | ⊗ | ⊗ |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | — | — |
| VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE | | — | — |
| RAILROAD CONTROL CABINET | | ⊠ | ⊠ |



RESURFACING LIMIT

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

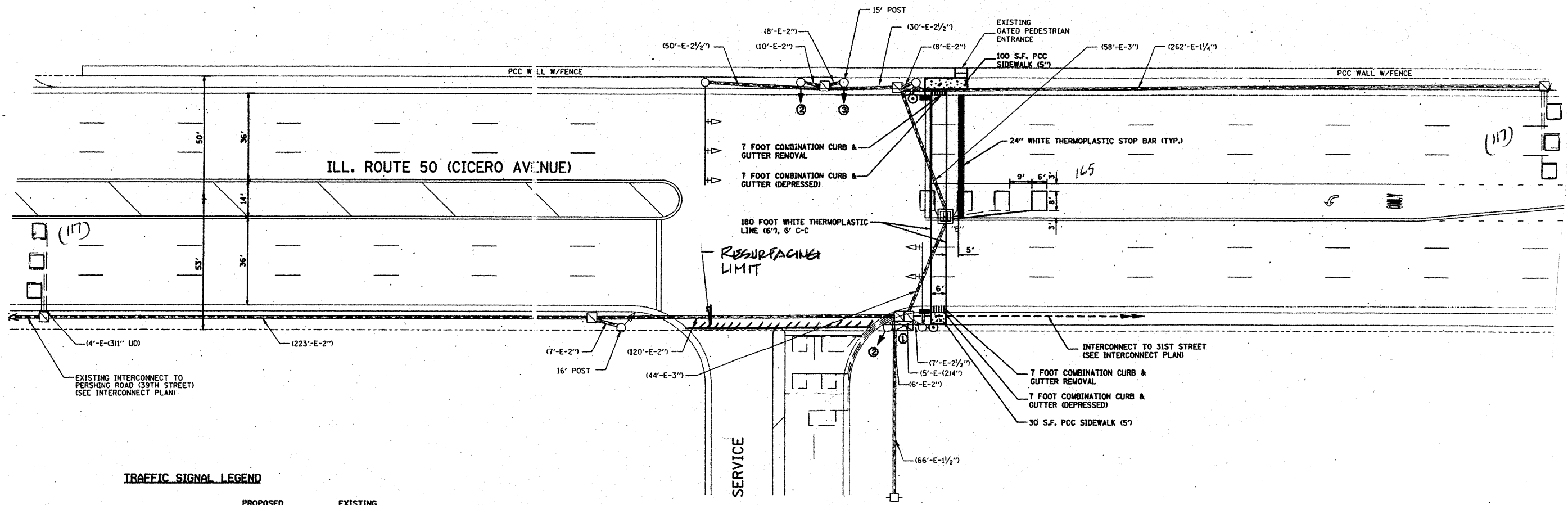
| CODE NO. | QUANTITY | UNIT | ITEM |
|----------|----------|------|---------------------------|
| 80600600 | 654 | Foot | Detector Loop Replacement |

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL. ROUTE 50 @ 39TH (PERSHING RD.)
SCALE: None
DATE: FEB. 2009
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD

CONTRACT # 60BS4



TRAFFIC SIGNAL LEGEND

| | PROPOSED | EXISTING |
|--------------------------------------|----------|----------|
| CONTROLLER | [Symbol] | [Symbol] |
| SERVICE INSTALLATION (AS NOTED) | [Symbol] | [Symbol] |
| SIGNAL HEAD | [Symbol] | [Symbol] |
| SIGNAL HEAD WITH BACKPLATE | [Symbol] | [Symbol] |
| SIGNAL HEAD, PEDESTRIAN | [Symbol] | [Symbol] |
| SIGNAL POST | [Symbol] | [Symbol] |
| MAST ARM ASSEMBLY AND POLE, STEEL | [Symbol] | [Symbol] |
| WAST ARM ASSEMBLY AND POLE, ALUMINUM | [Symbol] | [Symbol] |
| COMMON TRENCH | [Symbol] | [Symbol] |
| UNIT DUCT | [Symbol] | [Symbol] |
| HANDHOLE | [Symbol] | [Symbol] |
| HEAVY DUTY HANDHOLE | [Symbol] | [Symbol] |
| DOUBLE HANDHOLE | [Symbol] | [Symbol] |
| G.S. CONDUIT IN TRENCH OR PUSHED | [Symbol] | [Symbol] |
| PEDESTRIAN PUSH BUTTON | [Symbol] | [Symbol] |
| DETECTOR LOOP | [Symbol] | [Symbol] |

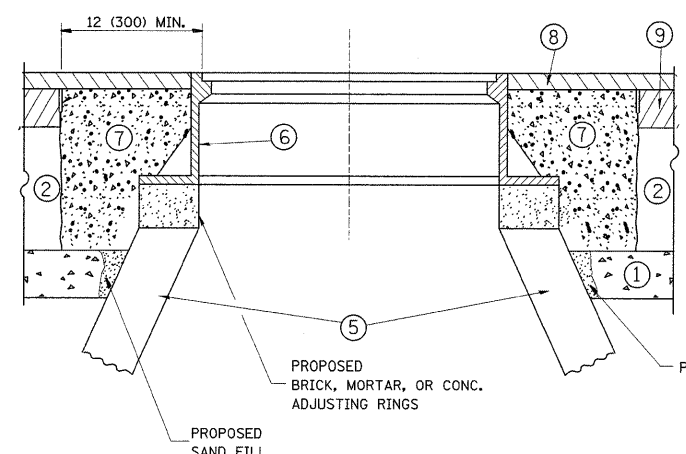
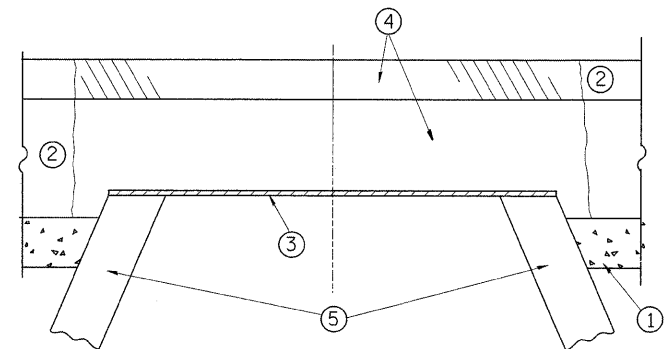
NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

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

| CODE NO. | QUANTITY | UNIT | ITEM |
|----------|----------|------|---------------------------|
| 80600600 | 399 | Foot | Detector Loop Replacement |

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILLINOIS ROUTE 50 @ CITIES DR.
 SCALE: NONE
 DATE: FEB. 2009
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

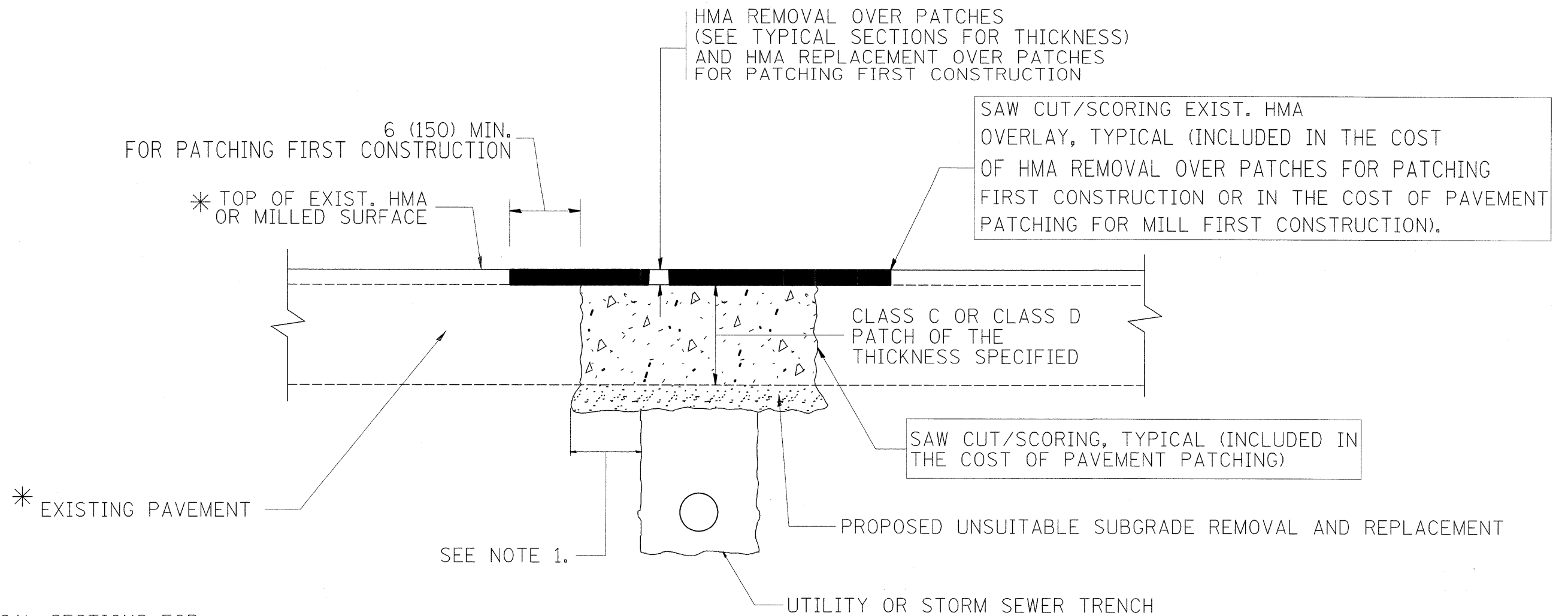
BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

| | | | | | | | | | | | | |
|--|-----------------------------|--------------------|--------------------------------|---|--|---|-------------------------|--------------|------------------------|--------------|--------------------|--|
| FILE NAME = | USER NAME = geglianobt | DESIGNED - R. SHAH | REVISED - R. SHAH 03-10-95 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING | F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 28 | SHEET NO. 15 | | |
| ct:\pw_work\pwidot\geglianobt\dms92488\ststd.dgn | PLOT SCALE = 50.0000' / IN. | DRAWN - | REVISED - A. ABBAS 03-21-97 | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | BD600-03 (BD-8) | | CONTRACT NO. 60B54 | |
| | PLOT DATE = 2/6/2009 | CHECKED - | REVISED - R. WIEDEMAN 05-14-04 | | | FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | | | | | | |
| | | DATE - 10-25-94 | REVISED - R. BORO 01-01-07 | | | | | | | | | |



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

| | | | | | | | | | | |
|---|------------------------|--------------------|-----------------------------|---|--|-------------------------|-------------------------|--------------------|--------------|---|
| FILE NAME = | USER NAME = gegltenobt | DESIGNED - R. SHAH | REVISED - A. ABBAS 04-27-98 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pw_work\pvidot\gegltenobt\dms92488\dstStd.dgn | | DRAWN - | REVISED - R. BORO 01-01-07 | | | 350 | 3321-S-RS | COOK | 25 | 16 |
| PLOT SCALE = 50.0000' / IN. | | CHECKED - | REVISED - R. BORO 09-04-07 | | | BD400-04 (BD-22) | | CONTRACT NO. 60B54 | | |
| PLOT DATE = 2/6/2009 | | DATE - 10-25-94 | REVISED - K. ENG 10-27-08 | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

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.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

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

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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

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

* 3" (75) 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, 4" (100) 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 HMA 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.

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

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

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) 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).

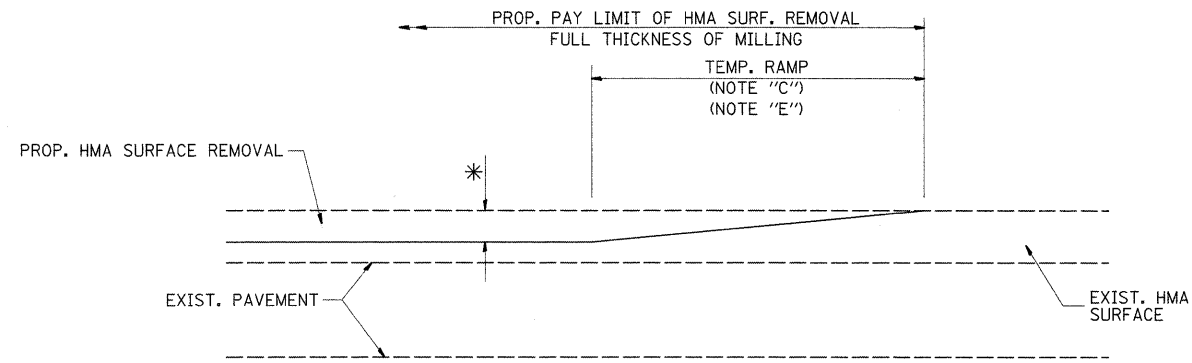
BASIS OF PAYMENT:

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

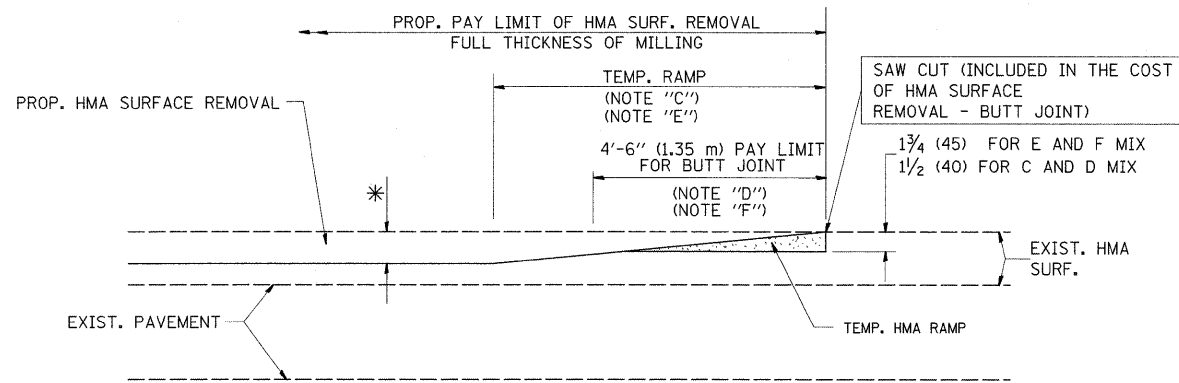
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| | | | | | | | | | | |
|--|------------------------------|----------------------|-----------------------------|---|--|-------------------------|-------------------------|--------------------|---|-----------|
| FILE NAME = | USER NAME = gegl1enobt | DESIGNED - A. HOUSEH | REVISED - R. SHAH 10-03-96 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pw_work\pwidot\gegl1enobt\dms92488\d | etStd.dgn | DRAWN - | REVISED - A. ABBAS 03-21-97 | | | 350 | 3321-S-RS | COOK | 28 | 17 |
| | PLOT SCALE = 50.0000 ' / IN. | CHECKED - | REVISED - M. GOMEZ 01-22-01 | | | BD600-06 (BD-24) | | CONTRACT NO. 60B54 | | |
| | PLOT DATE = 2/6/2009 | DATE - 03-11-94 | REVISED - R. BORO 01-01-07 | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | |



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

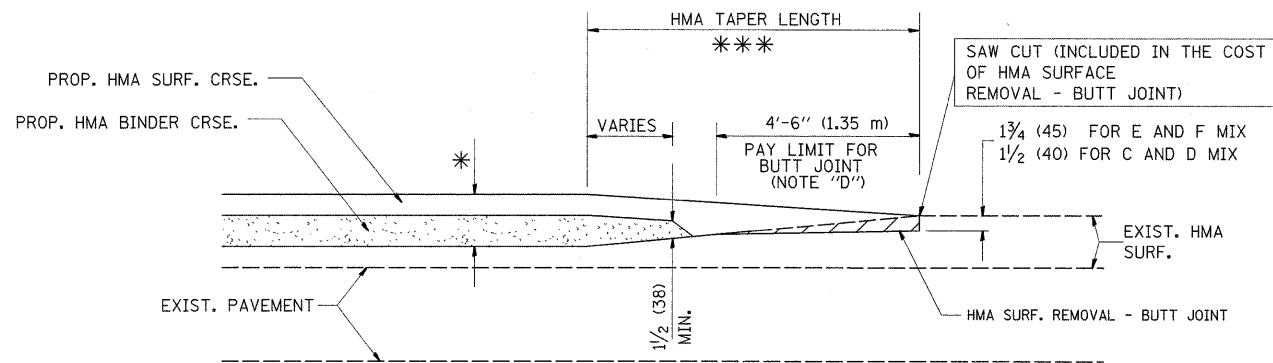
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

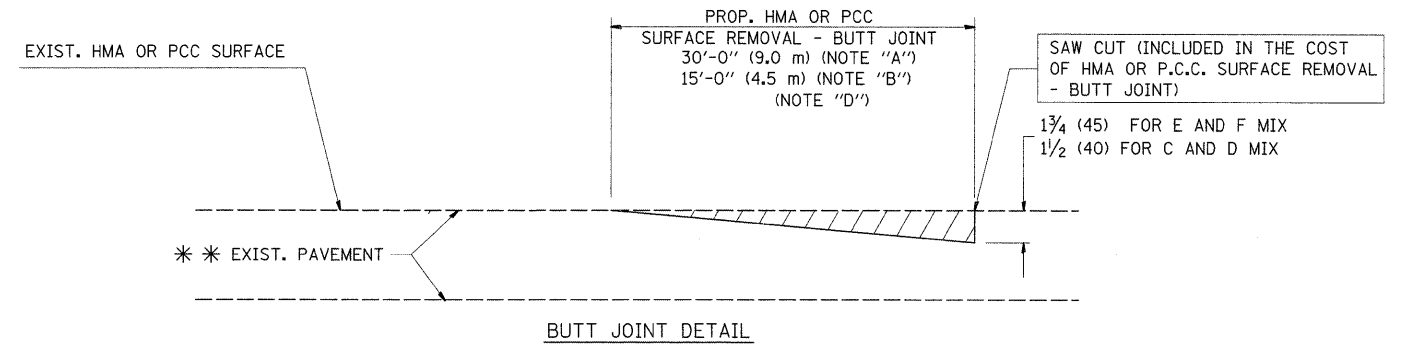
OPTION 2

TYPICAL TEMPORARY RAMP

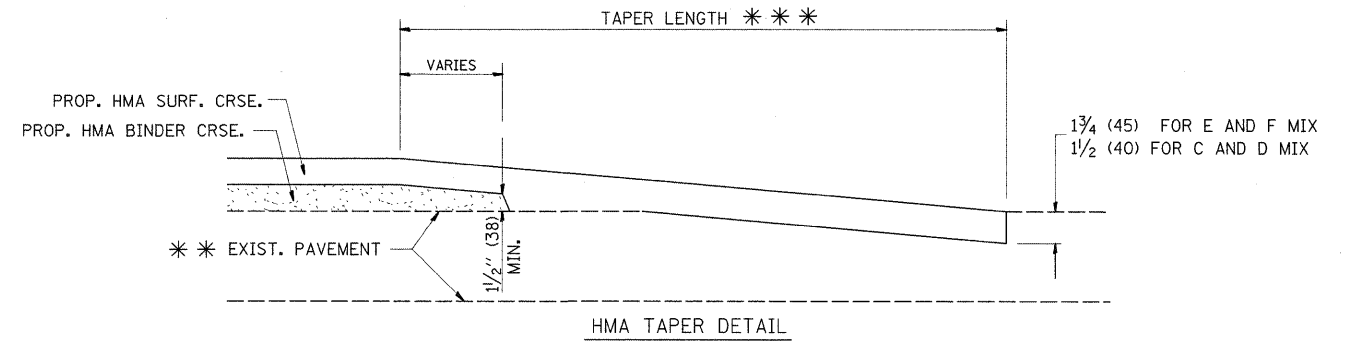


BUTT JOINT AND
HMA TAPER

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



BUTT JOINT DETAIL



HMA TAPER DETAIL

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

*** PC CONCRETE, HMA OR HMA 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 HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

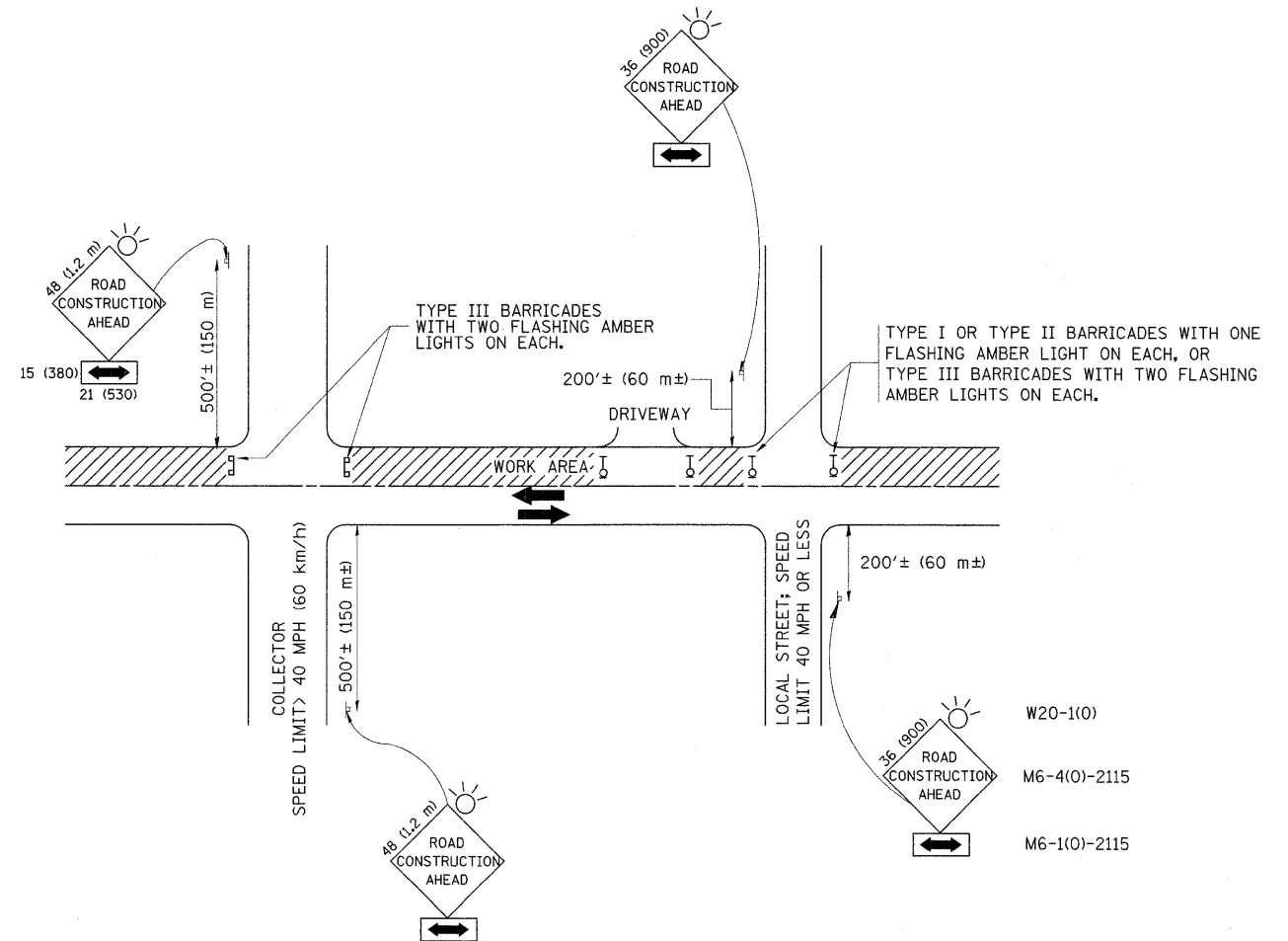
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| FILE NAME = | USER NAME = gaglianob | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94 |
| ct:\pw_work\pwidot\gaglianob\dms92488\dms92488.dgn | | DRAWN - | REVISED - A. ABBAS 03-21-97 |
| | PLOT SCALE = 50.0000 ' / IN. | CHECKED - | REVISED - M. GOMEZ 04-06-01 |
| | PLOT DATE = 2/6/2009 | DATE - 06-13-90 | REVISED - R. BORO 01-01-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 3321-S-RS | COOK | 25 | 18 |
| BD400-05 BD32 | | | CONTRACT NO. 60B54 | |
| 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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) 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.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) 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.
3. 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.

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

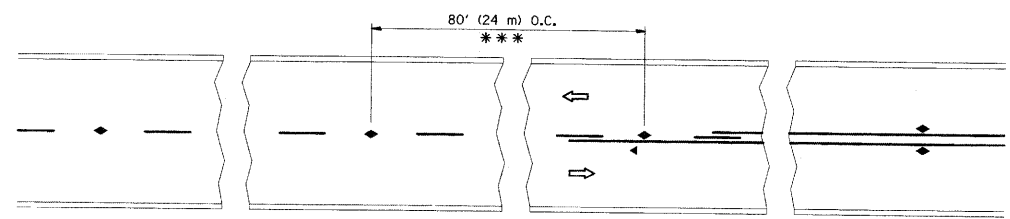
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| FILE NAME = | USER NAME = gaglianobt | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95 |
| c:\pw_work\pwwid\gaglianobt\dms92488\dms92488.dgn | | DRAWN - | REVISED - A. HOUSEH 03-06-96 |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - A. HOUSEH 10-15-96 |
| | PLOT DATE = 2/6/2009 | DATE - 06-89 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

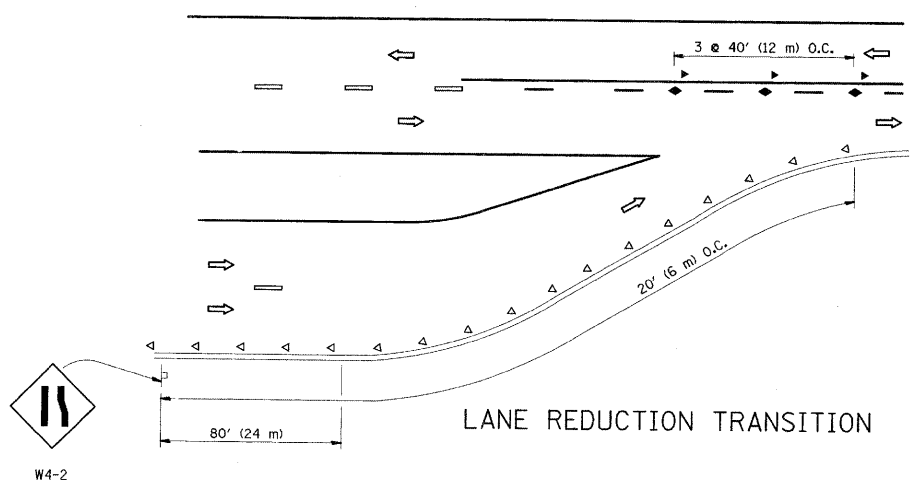
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 3321-S-RS | COOK | 28 | 19 |
| TC-10 | | | CONTRACT NO. 60B54 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

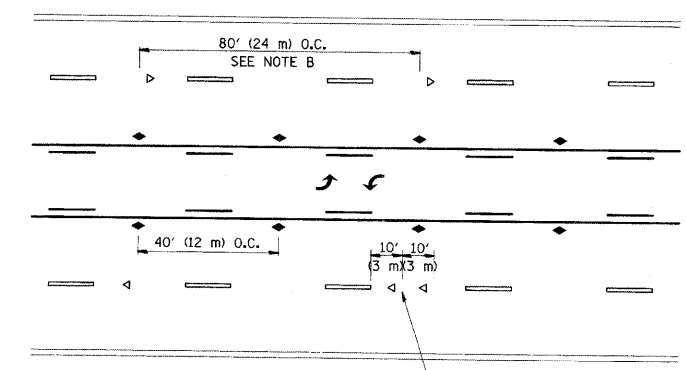


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

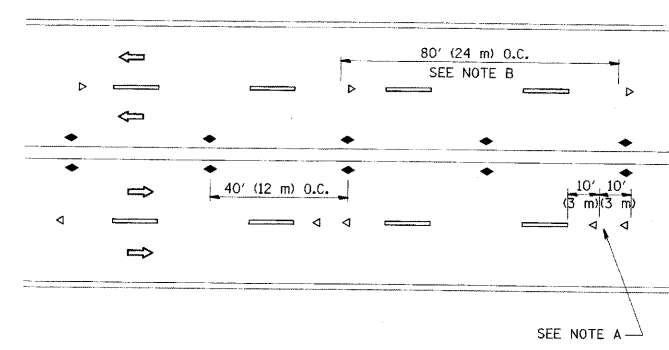
TWO-LANE/TWO-WAY



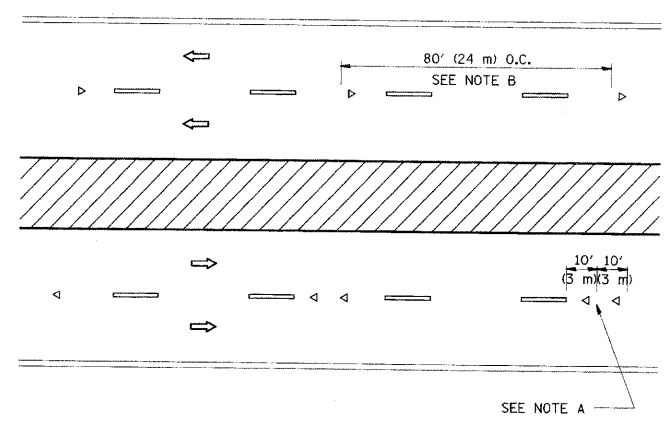
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

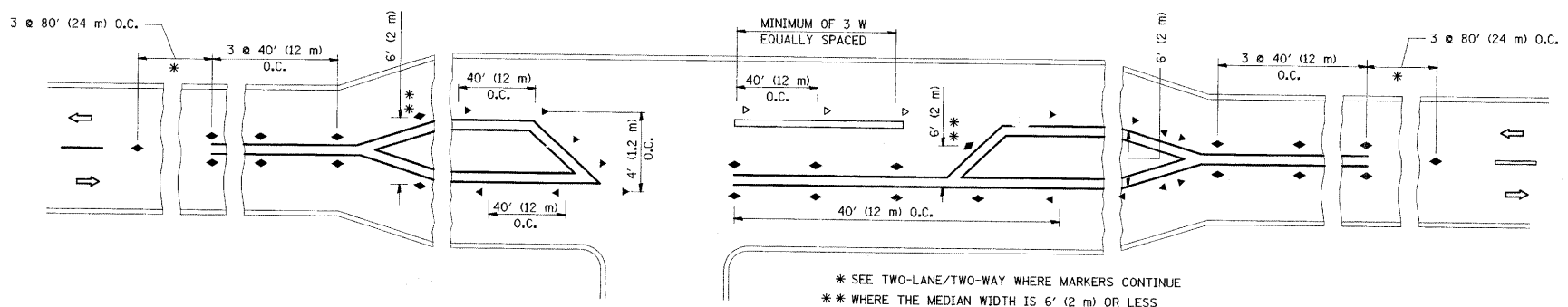
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE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

SYMBOLS

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

LANE MARKER NOTES

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



LEFT TURN

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

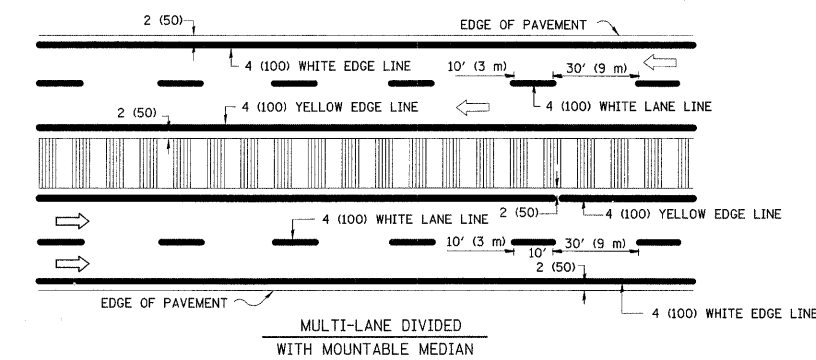
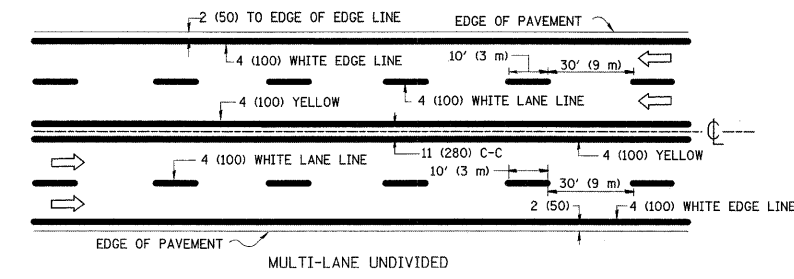
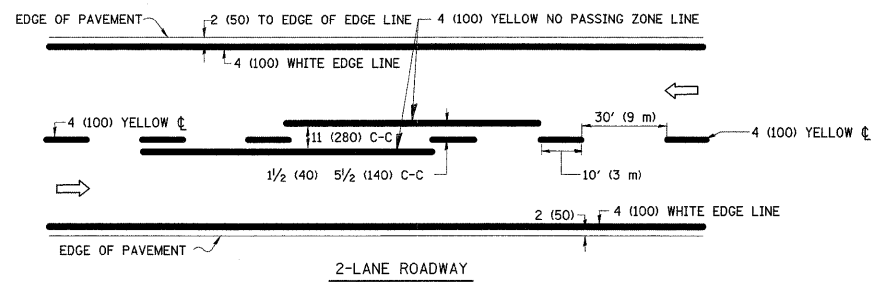
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| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - T. RAMMACHER 01-06-00 |
| | PLOT DATE = 2/6/2009 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

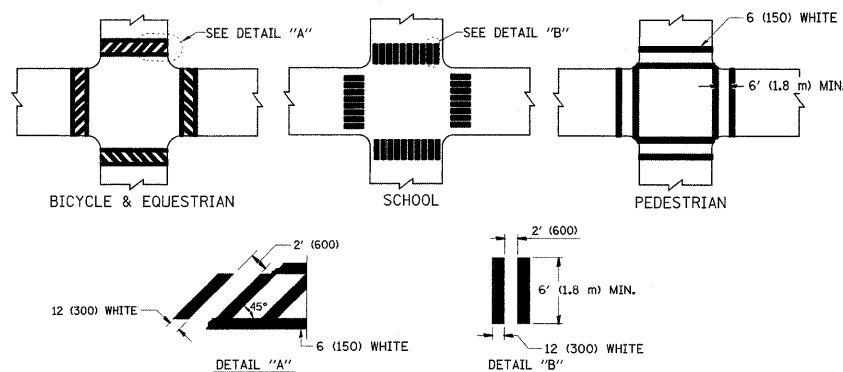
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 3321-S-RS | COOK | 25 | 20 |
| TC-11 | | | CONTRACT NO. 60B54 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

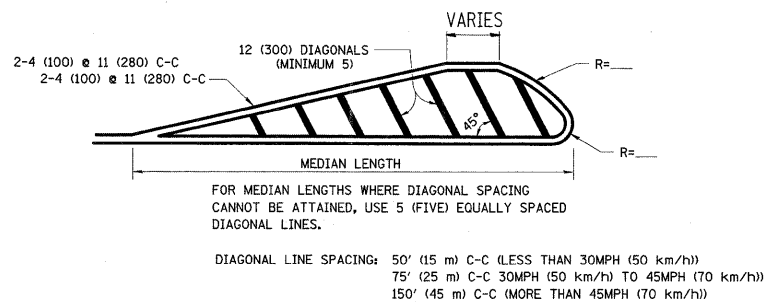
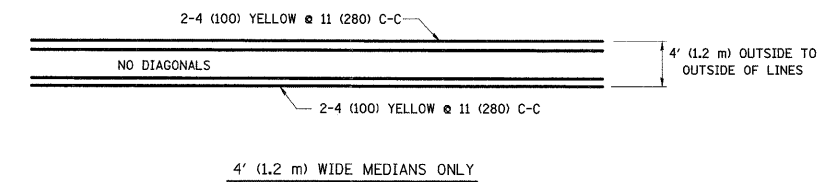


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

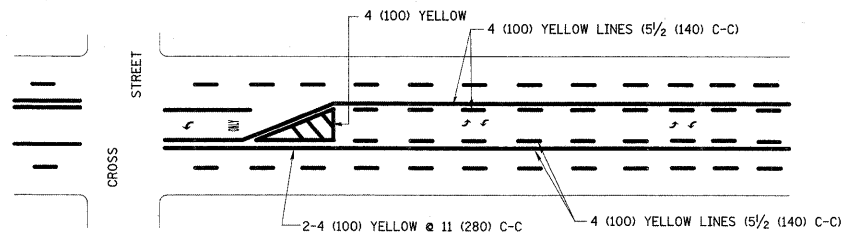
TYPICAL LANE AND EDGE LINE MARKING



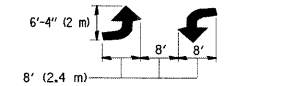
TYPICAL CROSSWALK MARKING



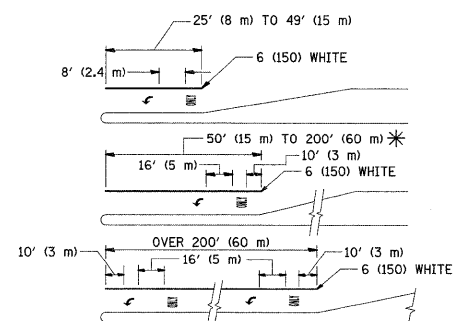
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



TYPICAL PAINTED MEDIAN MARKING

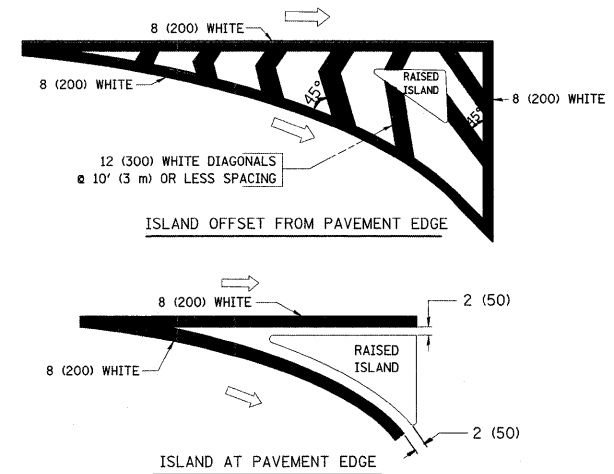


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) 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 | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |

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

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

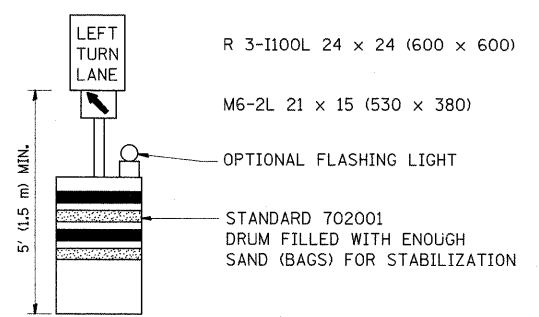
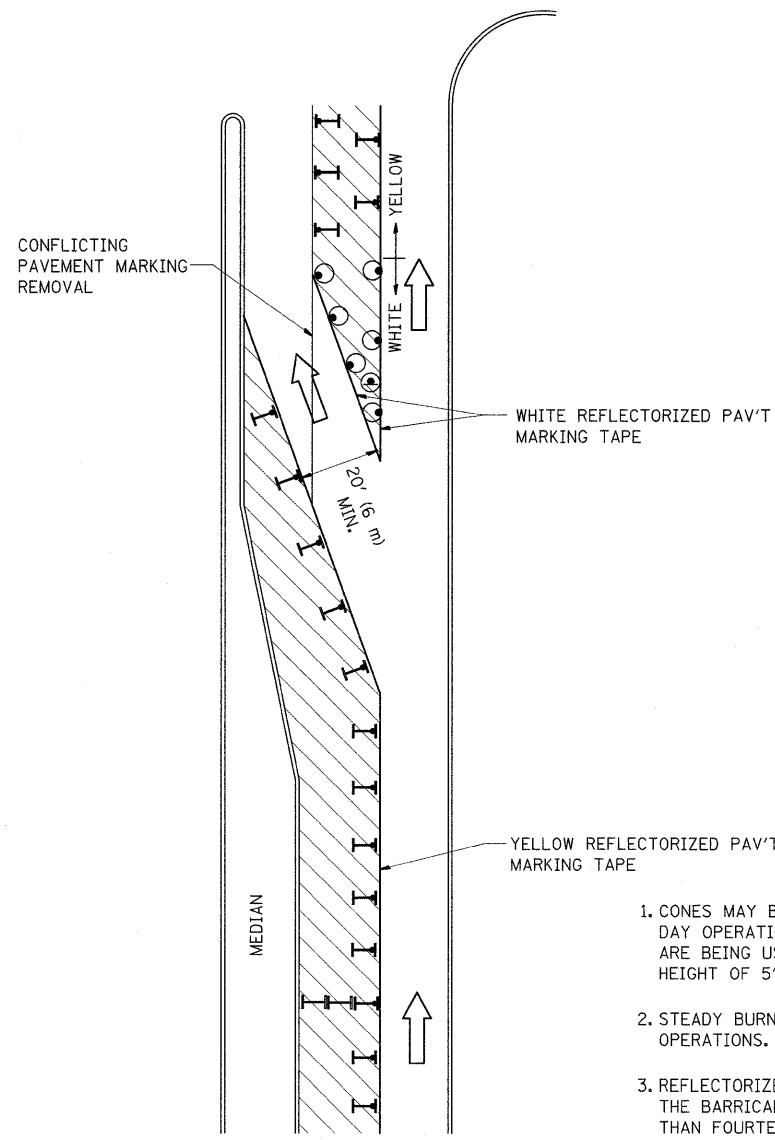
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| FILE NAME = | USER NAME = geglionobt | DESIGNED - EVERS | REVISED - T. RAMMACHER 10-27-94 |
| ct:\pw_work\pwsdot\geglionobt\dms92488\stStd.dgn | | DRAWN - | REVISED - A. HOUSEH 10-09-96 |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - A. HOUSEH 10-17-96 |
| | PLOT DATE = 2/6/2009 | DATE - 03-19-90 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

| | | | | |
|---|-------------------|-------------|--------------------|--------------|
| F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 21 | SHEET NO. 21 |
| TC-13 | | | CONTRACT NO. 60B54 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

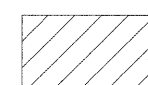





SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
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 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) 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 inches (millimeters) unless otherwise shown.

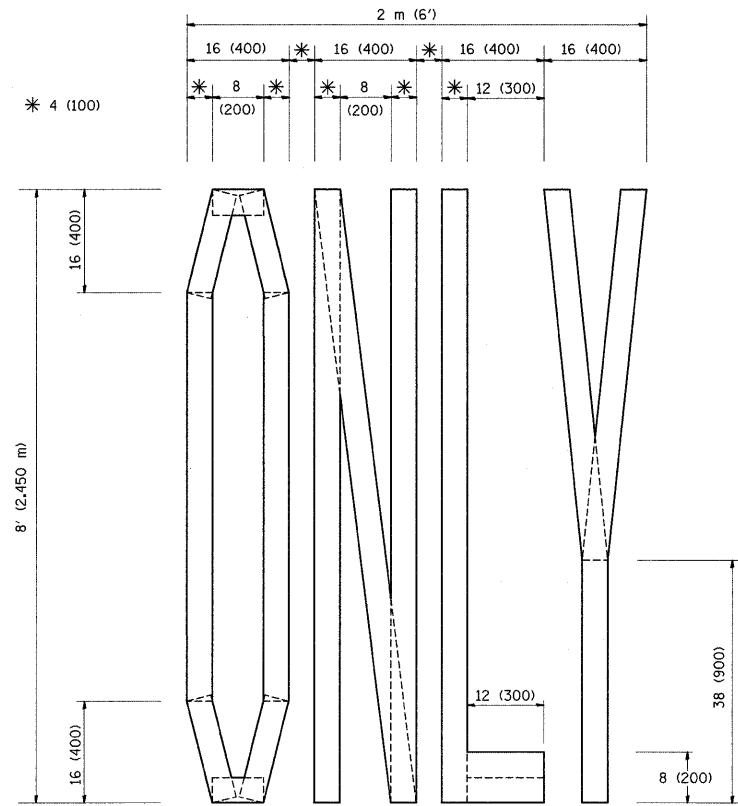
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| FILE NAME = | USER NAME = gegl1enobt | DESIGNED - | REVISED -T. RAMMACHER 09-08-94 |
| ct\pwwork\pwwid\gegl1enobt\dms92488\d | stStd.dgn | DRAWN - | REVISED - A. HOUSEH 11-07-95 |
| | PLOT SCALE = 50.0000 ' / IN. | CHECKED - | REVISED - A. HOUSEH 10-12-96 |
| | PLOT DATE = 2/6/2009 | DATE - | REVISED -T. RAMMACHER 01-06-00 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

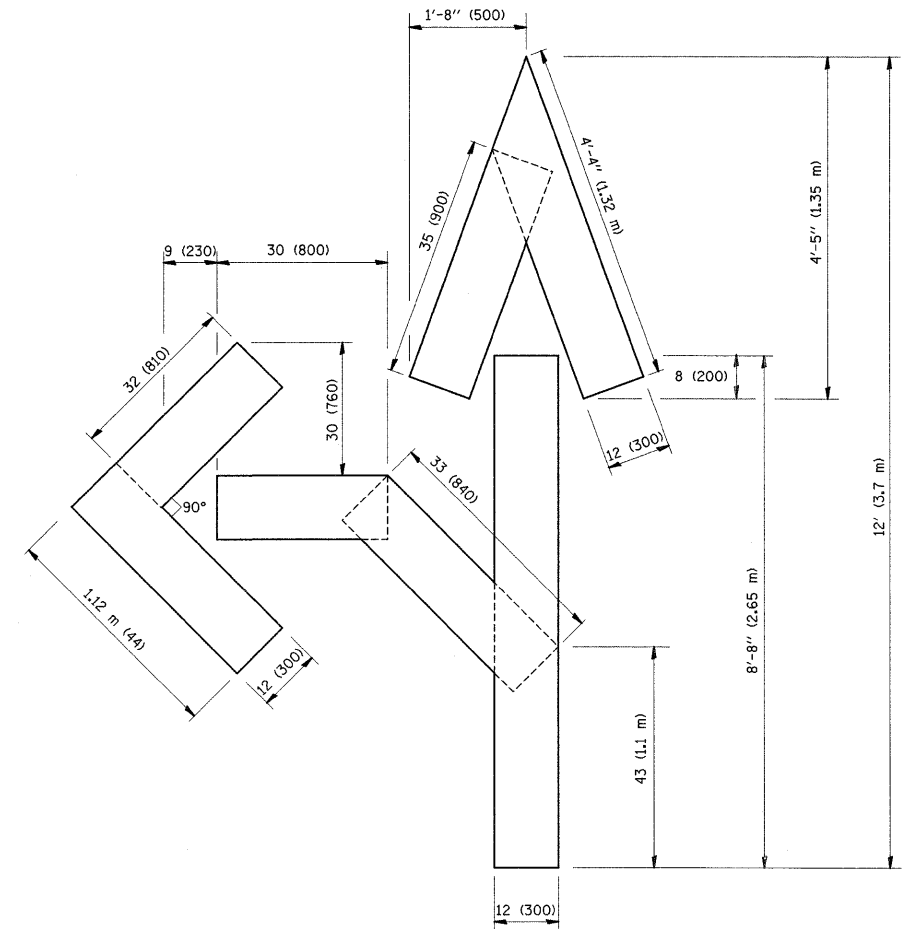
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

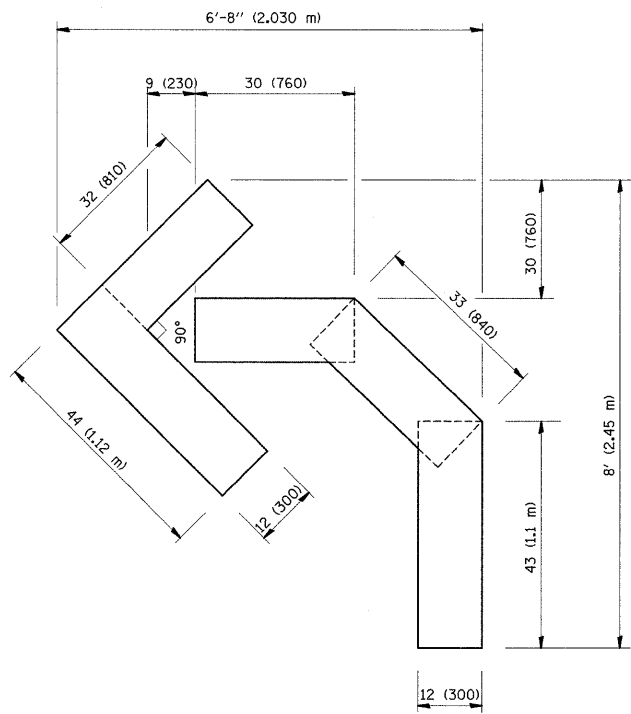
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|---|-----------|--------|--------------------|-----------|
| F.A.R. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 3321-S-RS | COOK | 25 | 22 |
| TC-14 | | | CONTRACT NO. 60B54 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



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



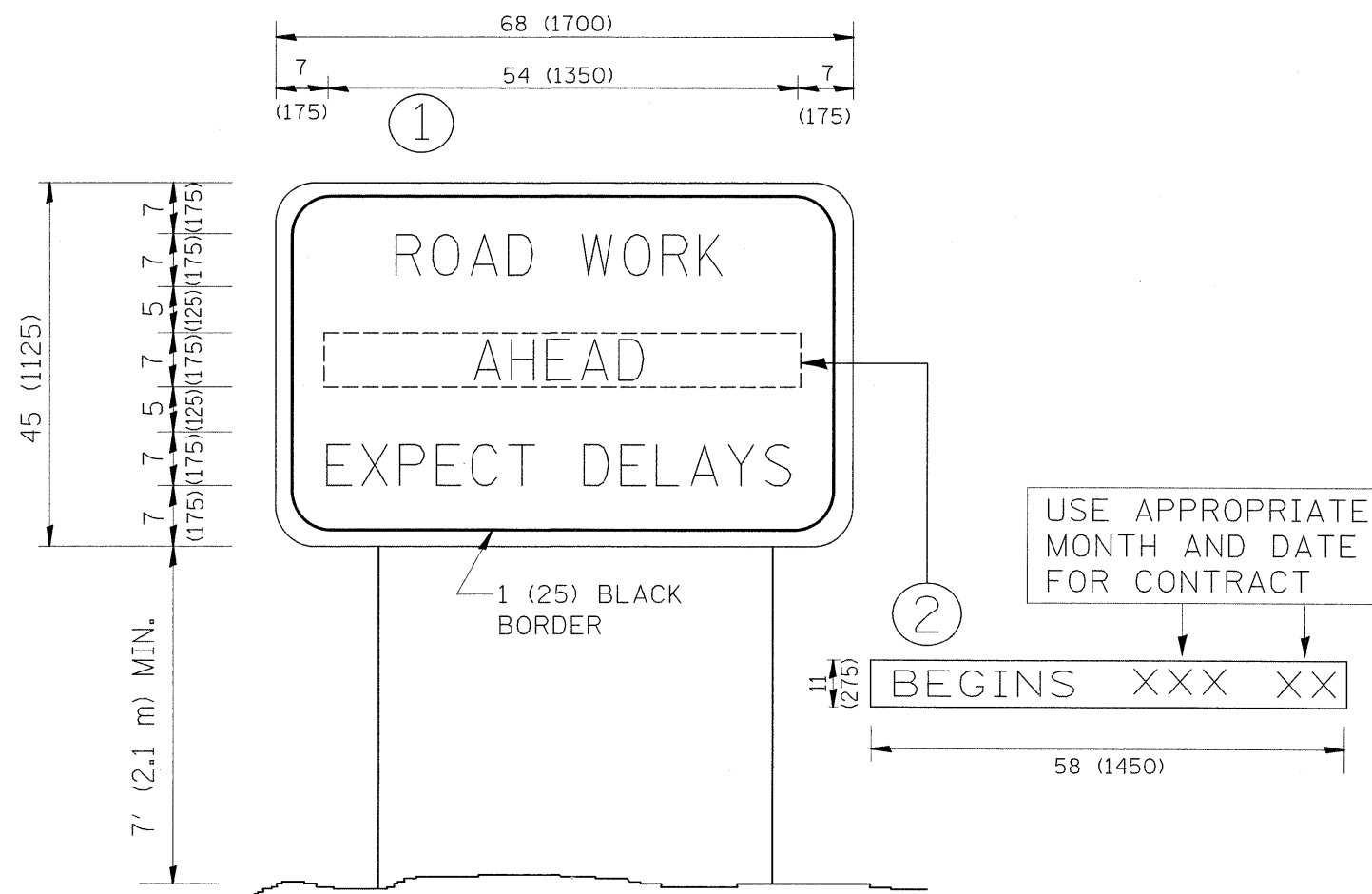
QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



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

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

| | | | | | | | | | | |
|--|-----------------------|--------------------------------|--------------------------------|---|---|---------------------------|---------|---------|---|-----------|
| FILE NAME = | USER NAME = gaglianob | DESIGNED - | REVISED -T. RAMMACHER 06-05-96 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pw_work\pawidot\gaglianob\dms92488\1stStd.dgn | DRAWN - | REVISED -T. RAMMACHER 11-04-97 | 350 | | | 3321-S-RS | COOK | 25 | 23 | |
| PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED -T. RAMMACHER 03-02-98 | TC-16 | | | CONTRACT NO. 60B54 | | | | |
| PLOT DATE = 2/6/2009 | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00 | SCALE: NONE | | | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | |



NOTES:

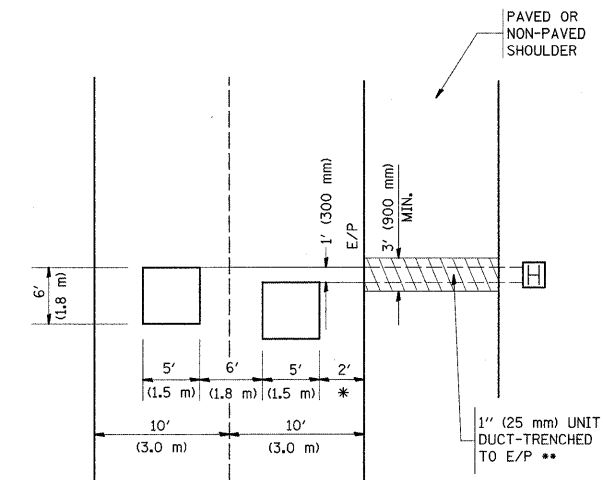
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.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

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

| | | | | | | | | | | | |
|--|--------------------------|---------------------------------|---|---|---|-------------------------|----------------------|----------------|-----------------------|--------------------|--------------------|
| FILE NAME = c:\pw_work\pwsdot\gaglianob\ms92488\stStd.dgn | USER NAME = gaglianob | DESIGNED - | REVISED - R. MIRS 09-15-97 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ARTERIAL ROAD INFORMATION SIGN | F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 24 | |
| PLOT SCALE = 50.0000 "/ IN. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 | SCALE: NONE | | | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | TC-22 | | CONTRACT NO. 60B54 |
| PLOT DATE = 2/6/2009 | DATE - | REVISED - C. JUCIUS 01-31-07 | 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.



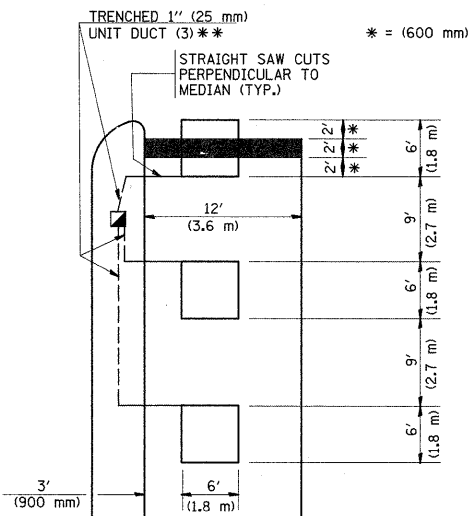
* = (600 mm)

** 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.

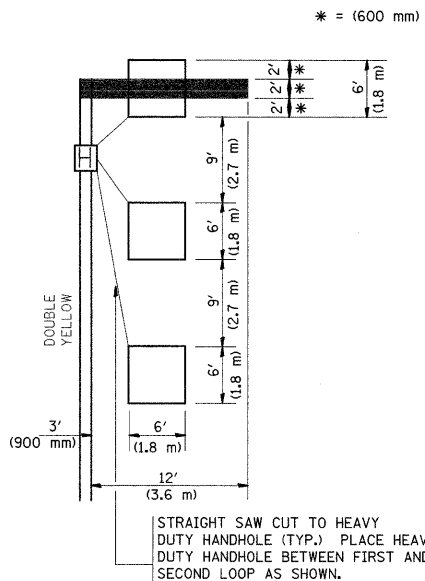


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

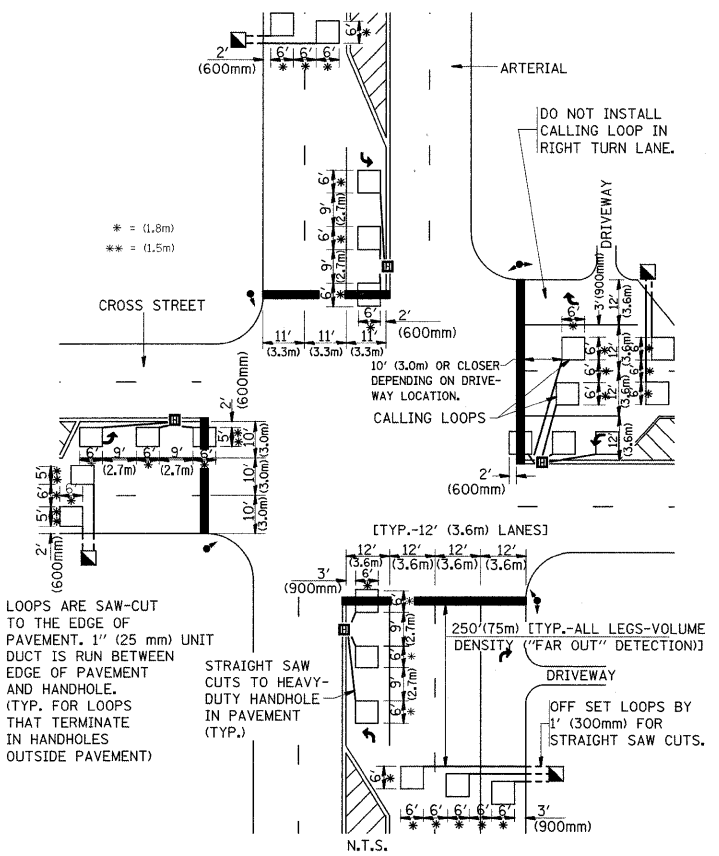
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



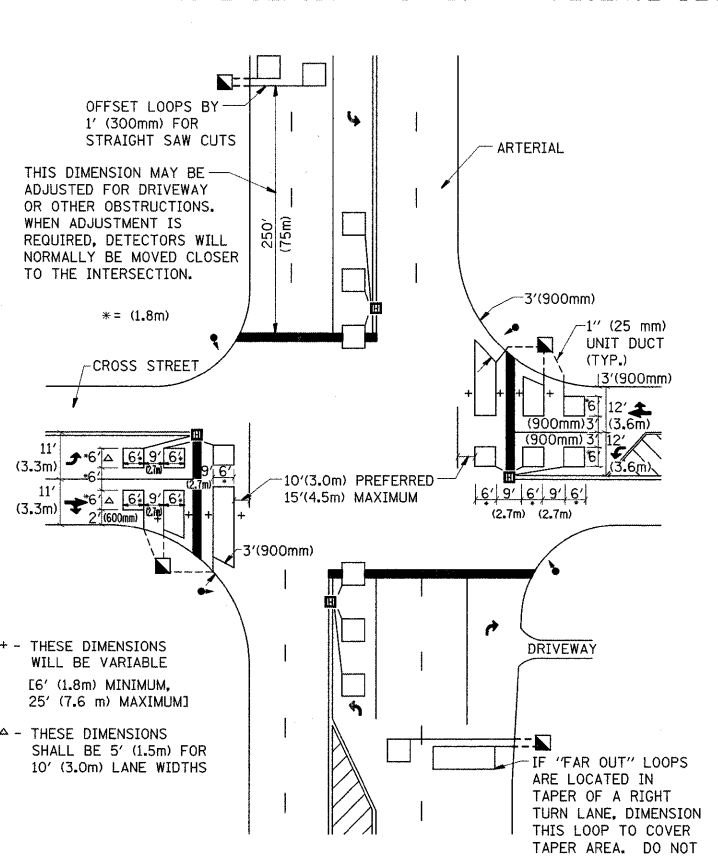
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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 DEMENSIONS 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.

| | | | | | | | | | | | |
|---|-----------------------------|------------------|-----------|---|--|-----------------|-------------------------|-------------|-----------------|---|--------------------|
| FILE NAME = | USER NAME = gagl1anob1 | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING | F.A.P. RTE. 350 | SECTION 3321-S-RS | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 25 | |
| c:\pwwork\pwwork\gagl1anob1\dms92488\dms92488.dgn | PLOT SCALE = 50.0000' / IN. | DRAWN - | REVISED - | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | CONTRACT NO. 60B54 |
| | PLOT DATE = 2/6/2009 | CHECKED - R.K.F. | REVISED - | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | |