STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 345: WELD RD. RANDALL RD. TO MCLEAN BLVD SECTION 8R-1AC-RS **RESURFACING** KANE COUNTY C-91-568-09

THE CITY OF ELGIN

TRAFFIC DATA: ADT = NOT COUNTED

IMPROVEMENT IS LOCATED IN

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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POSTED SPEED LIMIT = 45 MPH **UDINA** IMPROVEMENT BEGINS IMPROVEMENT ENDS STA. 1+36 STA.76+57 CITY LIMITS RD. SOUTH

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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER ROBERT BORO (847) 705-4178 PROJECT MANAGER KEN ENG

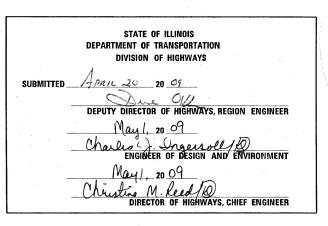
GROSS LENGTH AND NET LENGTH OF IMPROVEMENT = 7521 FT. = 1.43 MILE

ELGIN TOWNSHIP

CONTRACT NO. 60H12

KANE





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE STANDARDS

| | INDEX OF SHEETS | 442201-03 | CLASS C AND D PATCHES |
|-----|--|----------------------------|---|
| 1 | TITLE SHEET | 604001-03 | FRAME AND LIDS TYPE 1 |
| 2 | INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES | 606001- <i>0</i> 4 | CONCRETE CURB AND COMBINATION CURB AND GUTTER |
| 3 | SUMMARY OF QUANTITIES | 701101 - <i>0</i> 2 | OFF-ROAD MOVING OPERATIONS MULTILANE, 4.5 M (15') TO 600 MM (24'') FROM PAVEMENT EDGE |
| 4 | TYPICAL SECTIONS | 701426- <i>0</i> 3 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEED > 45 MPH |
| 5-7 | ROADWAY AND PAVEMENT MARKING PLAN | 701606 <i>-04</i> | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 8 | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) | | |
| 9 | CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24) | 701701-04 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 10 | BUTT JOINT AND HMA TAPER DETAILS (BD-32) | 701901- <i>01</i> | TRAFFIC CONTROL DEVICES |
| 11 | TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTION AND DRIVEWAYS (TC-10) | 780001 - <i>0</i> 2 | TYPICAL PAVEMENT MARKINGS |
| 12 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (T | C-11) | |
| 13 | DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) | | |
| 14 | TRAFFIC CONTROL & PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) | | |
| 15 | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16) | | |

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 or 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF ELGIN.

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 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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 DON CHIARUGI AREA TRAFFIC FIELD ENGINEER AT (847) 741-9857 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

BEFORE BEGINING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERANCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKINGS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470. A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINING OF WORK.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISITING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

| | FILE NAME = | USER NAME = estimablek | DESIGNED - | REVISED - | |
|---|--|-----------------------------|------------|-----------|--|
| | c:\pw_work\pwidot\estimeblek\d0137730\D1 | 6809-sht-plan.dgn | DRAWN - | REVISED - | |
| | | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | REVISED - | |
| ۱ | | PLOT DATE = 4/20/2009 | DATE - | REVISED - | |

DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

16

17

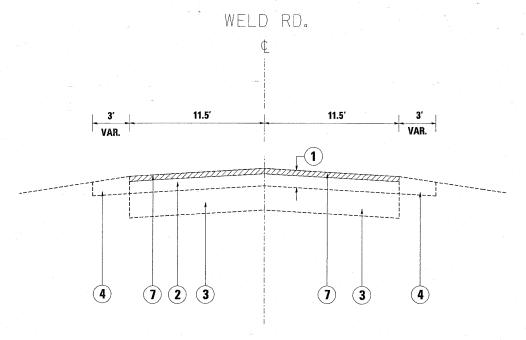
ARTERIAL ROAD INFORMATION SIGN (TC-22)

| STATE | OF | ILLINOIS | |
|--------------|-----|-----------------------|--|
| DEPARTMENT O | F 1 | TRANSPORTATION | |

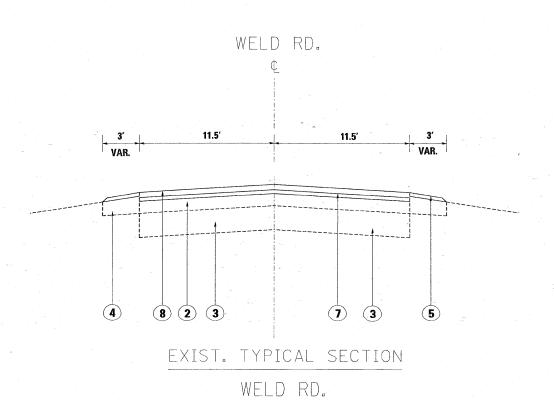
| WELI | D RD. (RANDA | ALL RD. TO M | CLEAN BLVD) | |
|----------|--------------|--------------|-------------|---------|
| INDEX OF | SHEET, STATE | STANDARDS | & GENERAL | NOTES |
| SCALE: | SHEET NO. | OF SHEETS | STA. | TO STA. |

| - | TILI TNOTS FED. A | CONTRAC | T NO. (| 50H12 |
|---------------|-------------------|---------|-----------------|--------------|
| 345 | 8R-1AC-RS | LAKE | 17 | 2 |
| F.A.F RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |

| | SUMMARY OF QUANTITIES | | URBAN | | | CONSTRUCT | ION TYPE | CODE: I | 000-2A | | SUMMAR | OF QUANTITIE | | | LIRBAN | | (| CONSTRUCT | ON TYPE C | ODE: 1000 | J-2A |
|-------------|--|---------------------|---------------------|--------------------|---|-----------|----------|---------|---------|----------------------|----------------|----------------|----------|------------|---------------------|--------|---------------|-----------|-----------|---------------------|--------------------------|
| CODE NO | ITEM | UNIT | TOTAL OUANTITIES | | | | : | | | CODE NO | | ITEM | | UNIT | TOTAL OUANTITIES | | | | | | |
| | | | 1001 STATE | 1000 | 4 | | | | | | | | | | 100% STATE | 1000 | | | : | | |
| 20201006 | GRADING AND SHAPING SHOULDERS | UNIT | 151 | 151 | | | | | | 78300200 | RAISED REFLEC | TIVE PAVEMENT | MARKER | EACH | 81 | 81 | | | | | |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 16 | 16 | | | | | | × 88600600 | DETECTOR LOOP | REPLACEMENT | | FOOT | 90 | 90 | | | | | |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 80 | 80 | | | | - | | X0322256 | TEMPORARY INF | | NG | SQ FT | 51. 4 | 51.4 | | - | | | - |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 6 | 6 | | | | | | x4067107 | POLYMERIZED LI | EVELING BINDER | | TON | 782 | 782 | | | | | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 1 | 1 | | | | | | X4420452 | METHOD). IL- | | 4 INCH | SO YD | 208 | 208 | | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SO YD | 104 | 104 | | | | | | X4420454 | CLASS D PATCH | | | SO YD | 40 | 40 | | - | | | |
| 40603340 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO | TON | 1667 | 1667 | | | | | | X4420456 Z0018500 | CLASS D PATCHI | | | SO YD | 234 | 234 | | | | | |
| 42001300 | PROTECTIVE COAT | SO YD | 12 | 12 | | | | | | 20018300 | DRAINAGE STRUC | | LEANED | LACII | • | • | | | | | |
| 44000153 | HOT-MIX ASPHALT SURFACE REMOVAL, 1" | SO YD | 19840 | 19840 | | - | | | | | | | | | | | | | | | |
| 44001700 | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT | FOOT | 50 | 50 | | | | | | | | | | | | | | | | | · |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 680 | 680 | | | | | | | | | | | | | | | | | |
| 60300305 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 1 | 1 | , | | | | | | | | | | | | | | - | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 2 | 2 | | | | | | | | | | | | | | | | | · |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | | | | | | Í | | | | | | | | | | |
| 70102625 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701606 | L SUM | 1 | 1 | | | | | | | | | | | | | | | | | |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 1 | | | | | | \$ 1 | | | | | | 1 . | | | | | |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 17937 | 17937 | | | | | | | | | | | | | | | | | |
| 70300210 | TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS | SO FT | 36.3 | 36. 3 | | | | | | | | | | | | | | | | | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 20723 | 20723 | | | | | | | | | | | | | | | | | |
| 70300240 | TEMPORARY PAVEMENT MARKING - LINE 6" | FOOT | 624 | 624 | * | | | | | | *Special+ | y Hems | | | | - 1 | | | - | | |
| 70300250 | TEMPORARY PAVEMENT MARKING - LINE 8" | FOOT | 143 | 143 | | | | | | - | | | | | | | | | | | |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 64 | 64 | | | | | | | | | | A s | | | | | | | |
| 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SO FT | 36.3 | 36. 3 | | | | - | | | | | | · | | | | | | | |
| 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 20723 | 20723 | | | | | | | | | | | | | | | | | |
| 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 624 | 624 | | | | | | | #. | | | | | | | | | | |
| 78000500 | THERMOPLASTIC PAVEMENT MARKING - LINE 8" | FOOT | 143 | 143 | | | | | | | | | | | | | | | | | |
| 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 64 | 64 | | | | | | | | | • | | | | | | | | |
| 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 96 | 96 | , | | | | | | | | | | | | | | | | |
| FILE NAME = | USER NAME = estimablek | DESIGNED - | <u> </u> | REVISED | - | <u> </u> | <u> </u> | <u></u> | | | | | | | | 11 | F.A.P RTE. | · SEC | TION | COUNTY | TOTAL SHEE SHEETS NO. |
| | !mablek\d0/37730\DI56809-sH-plan.dgn | DRAWN - | | REVISED | | | | | | OF ILLINOIS | | | CHRARALO | RY OF QUAN | IITIFC | | RTE. 345 | | | KANE | 17 3 |
| | PLOT SCALE = 50,0000 / / IN. PLOT DATE = 4/20/2009 | CHECKED - DATE - | | REVISED REVISED | | | 1 | DEPART | TMENT O | F TRANSPORTA | ATION | | | SHEETS ST | | O STA. | | | | CONTRACT PROJECT | NO. 60H12 |



WELD RD.
STA. 1+36 TO 76+57



STA. 1+36 TO 76+57

LEGEND

- 1) TOTAL EXISTING HOT-MIX ASPHALT SURFACE COURSE, \pm 4"
- (2) EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 3"
- (3) EXISTING GRANULAR BASE COURSE
- 4) EXISTING AGGREGATE SHOULDER
- PROP. AGGREGATE SHOUDER, ± 3/4"
- 6 PROP. HMA SURFACE REMOVAL, 1"
- 7) PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 8 PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"

| MIXTURE REQUIR | REMENTS | |
|--|----------------------|---------------|
| MIXTURE USES | AC TYPE | VOIDS |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) | PG 64-22 | 4% AT 70 GYR. |
| POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | SBS/SBR PG 76-28/-22 | 4% AT 50 GYR. |
| CLASS D PATCHES (HMA BINDER IL-19 mm) | PG 64-22 * | 4% AT 70 GYR. |

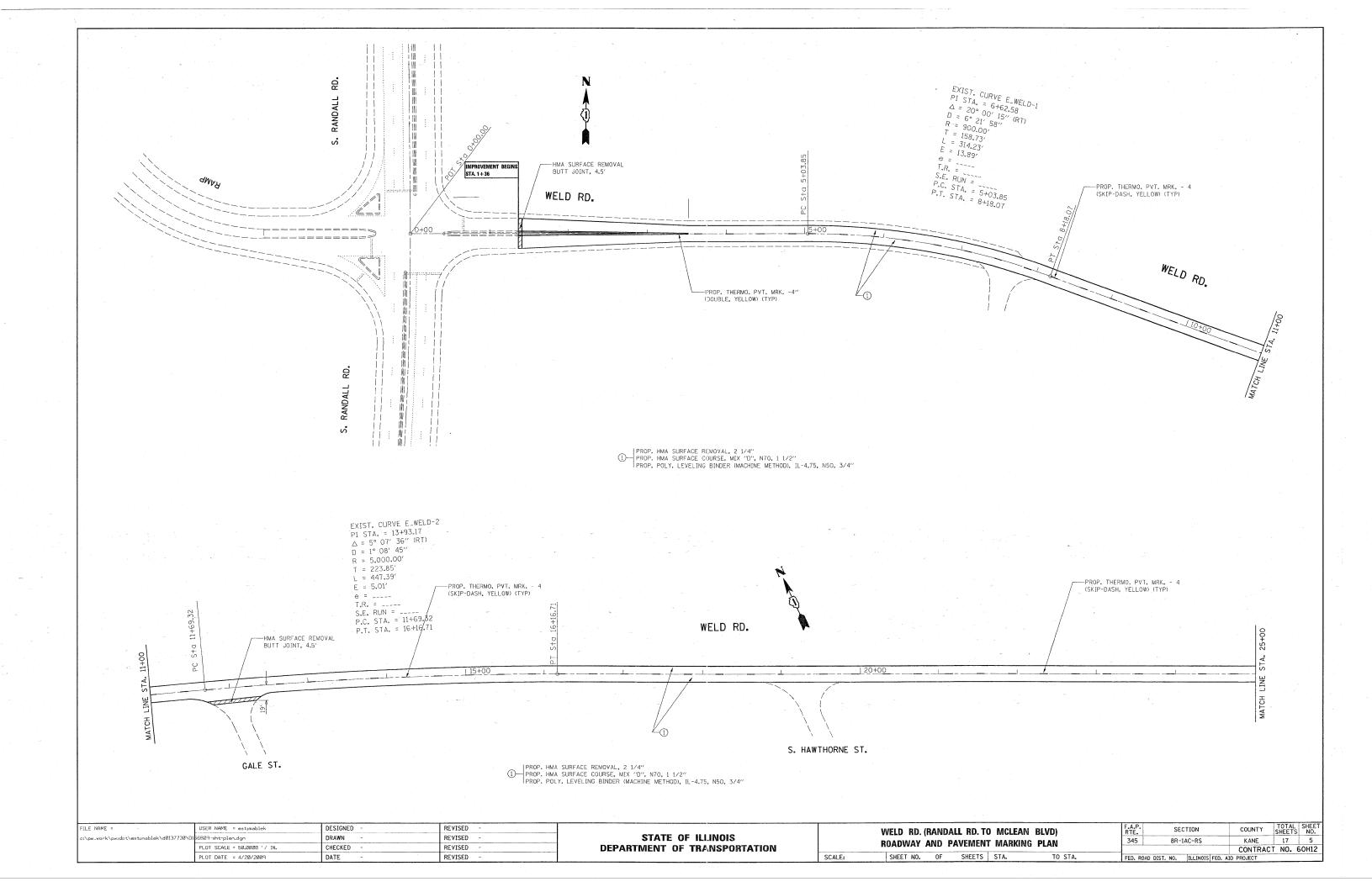
NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQ YD/IN

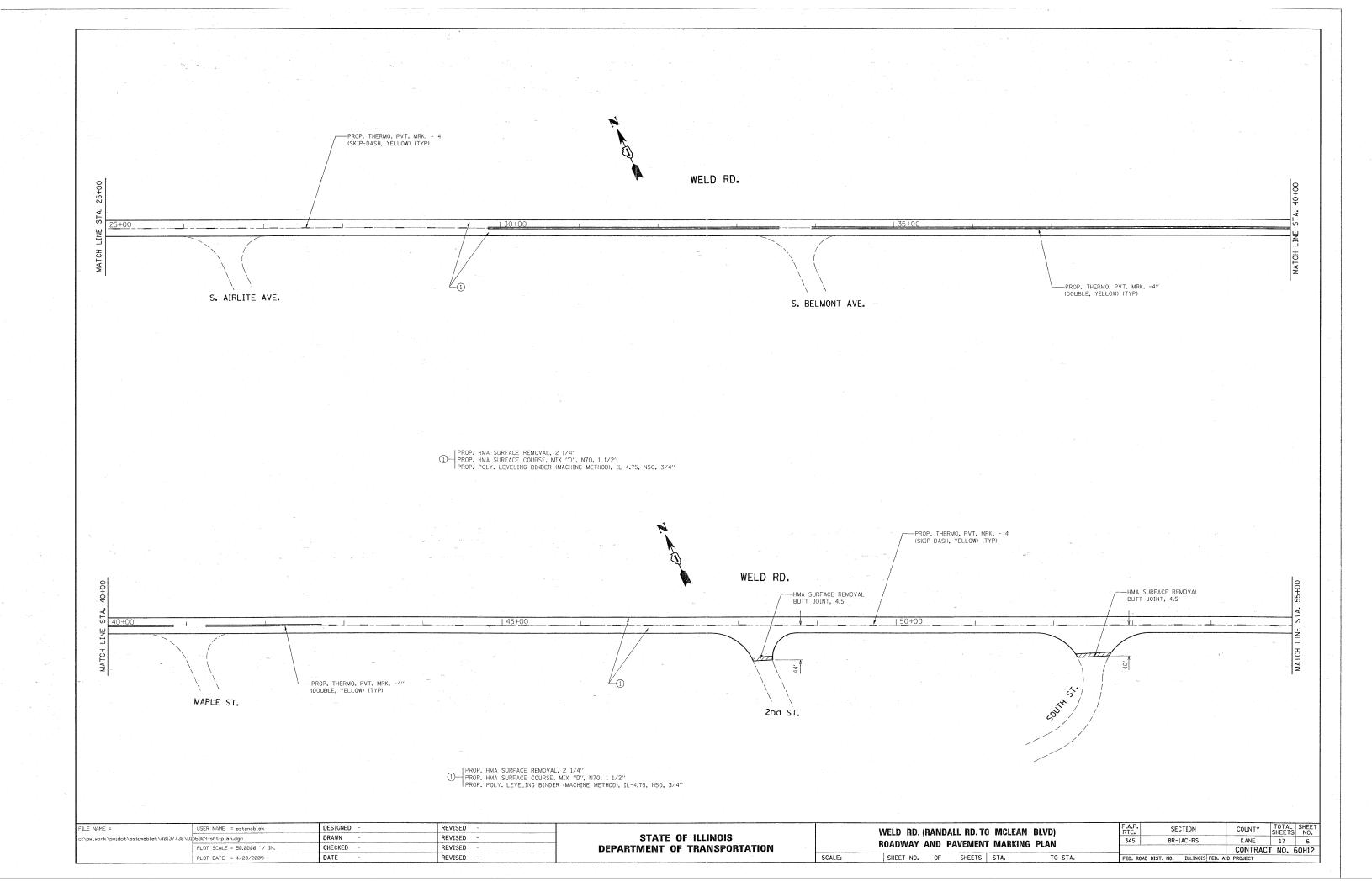
* NOTE 2: WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

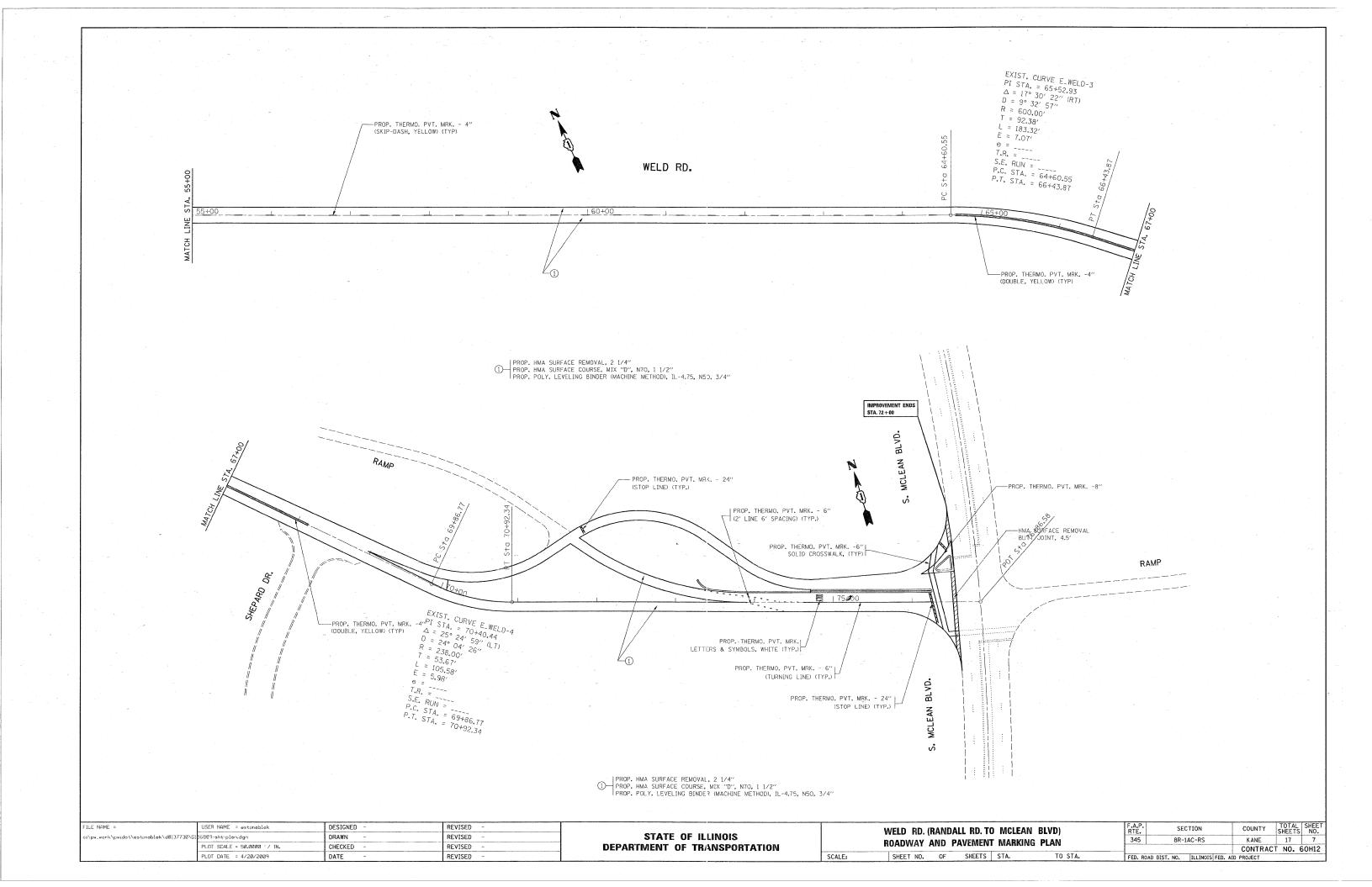
NOTE:

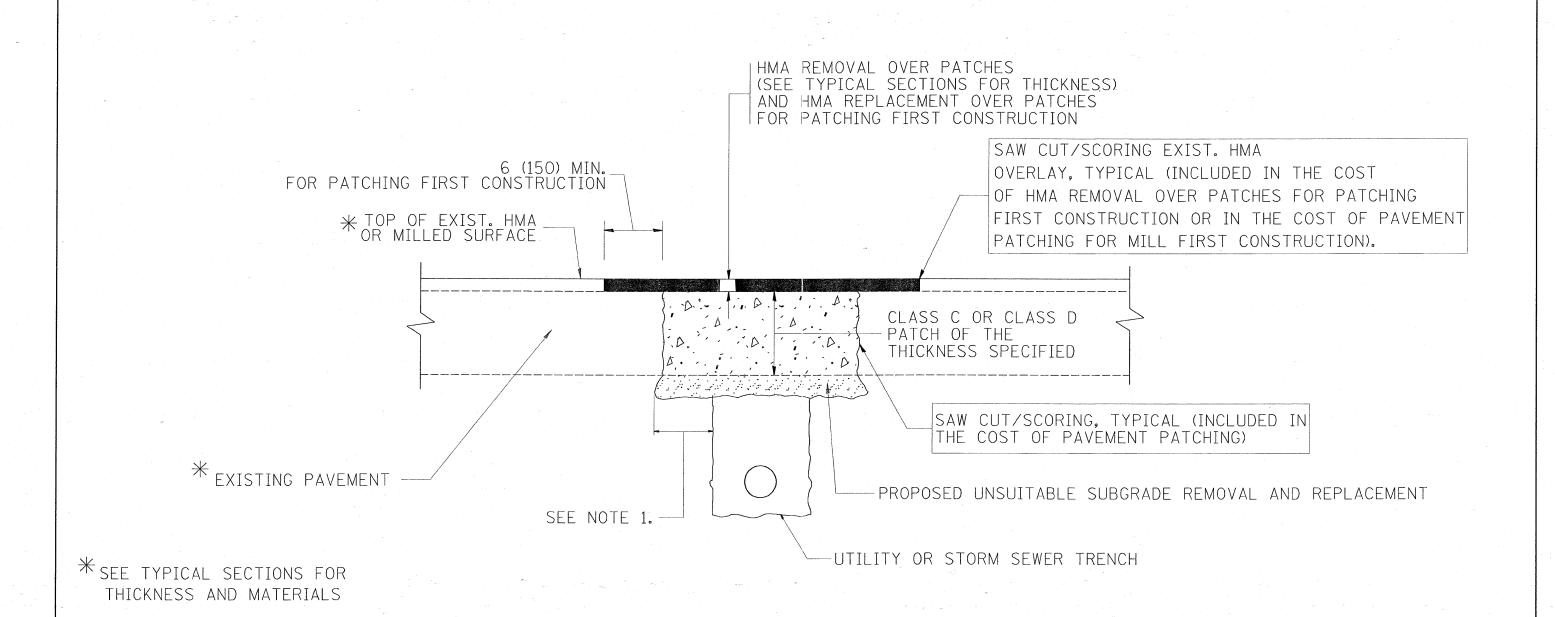
THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

| FILE N | AME = | USER NAME = estimoblek | DESIGNED - | REVISED - | | | WELD RD. (RANDALL RD. TO MCLEAN BLVD) | F.A.P. SECTION COUNTY TOTAL SHEET |
|---------|-----------------------------------|-----------------------------|------------|-----------|------------------------------|--------|---------------------------------------|---|
| c:/bw-n | ork\pwidot\estimablek\d0137730\Dl | 6809-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | EXITING AND PROPOSED TYPICAL SECTIONS | 345 8R-1AC-RS KANE 17 4 |
| | | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | EXITING AND PROPOSED ITPICAL SECTIONS | CONTRACT NO. 60H12 |
| Ī | | PLOT DATE = 4/20/2009 | DATE - | REVISED - | | SCALE: | SHEET NO. OF SHEETS STA. TO STA. | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |









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.

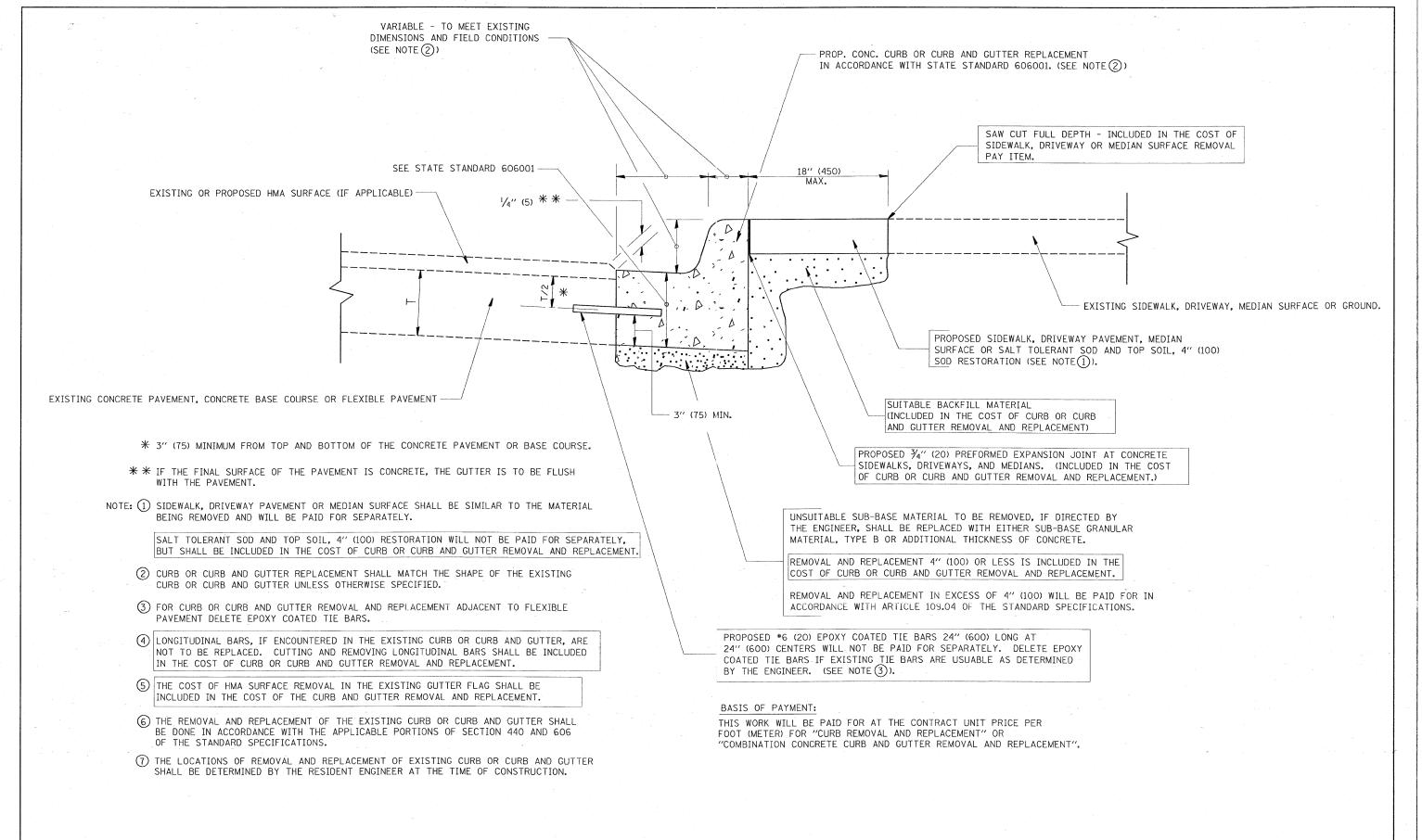
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 4/2 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.

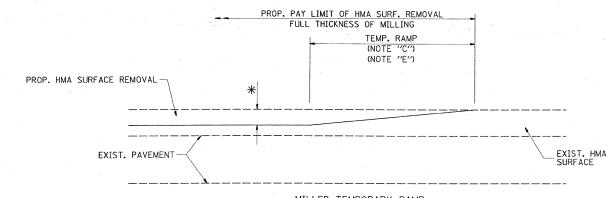
| ſ | FILE NAME = | USER NAME ≈ estimablek | DESIGNED - R. SHAH | REVISED - A. ABBAS 04-27-98 | | | PAVEMENT PATCHING FOR | | F.A.P. | SECTION | COUNTY | TOTAL S | HEET |
|---|---|-----------------------------|--------------------|-----------------------------|------------------------------|-------------|------------------------------|---------|---------|------------------|-----------|-----------|------|
| . | o:\pw_work\PWIDST\ESTIMABLEK\dØI3773Ø\D | stStd.dgn | DRAWN - | REVISED - R. BORO 01-01-07 | STATE OF ILLINOIS | | | | 345 | 8R-1AC-RS | KANE | 8 | 17 |
| | · | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | REVISED - R. BORO 09-04-07 | DEPARTMENT OF TRANSPORTATION | | HMA SURFACED PAVEMENT | | | BD400-04 (BD-22) | CONTRACT | [NO. 60F | 12 |
| L | | PLOT DATE = 4/20/2009 | DATE - 10-25-94 | REVISED - K. ENG 10-27-08 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. RO | | D PROJECT | | - |



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

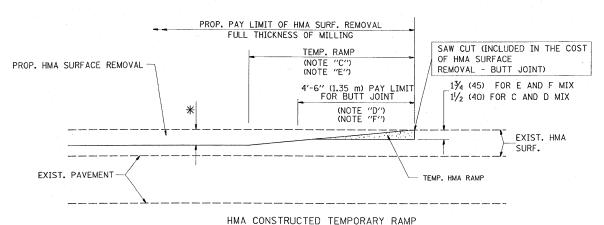
| FILE NAME = | USER NAME = estimablek | DESIGNED - A. HOUSEH | REVISED - | R. SHAH 10-03-96 | | | CURB OR CURB AND GUTTER | F.A.P RTE. | SECTION | COUNTY TOTAL SHEE |
|----------------------------------|---|----------------------|-----------|-------------------|------------------------------|-------------|------------------------------------|---------------|------------------|--------------------|
| c:\pw=work\PWIDOT\ESTIMABLEK\d0I | E = USER NAME = estimablek k.\PMIDDT\ESTIMABLEK\d0137730\tilbis\tildid\dn PLOT SCALE = 50.0000 ' / IN. PLOT DATE = 4/20/2009 | DRAWN - | REVISED - | A. ABBAS 03-21-97 | STATE OF ILLINOIS | | | 345 | 8R-1AC-RS | KANE 9 17 |
| | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | REVISED - | M. GOMEZ 01-22-01 | DEPARTMENT OF TRANSPORTATION | | REMOVAL AND REPLACEMENT | 0.0 | BD600-06 (BD-24) | CONTRACT NO. 60H12 |
| | PLOT DATE = 4/20/2009 | DATE - 03-11-94 | REVISED - | R. BORO 01-01-07 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO ST | TA. FED. | | AID PROJECT |



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

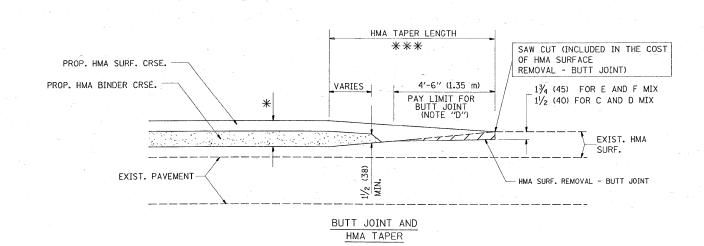
OPTION 1



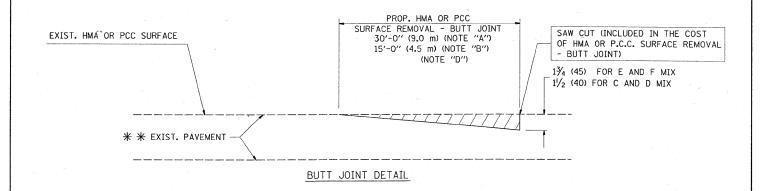
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

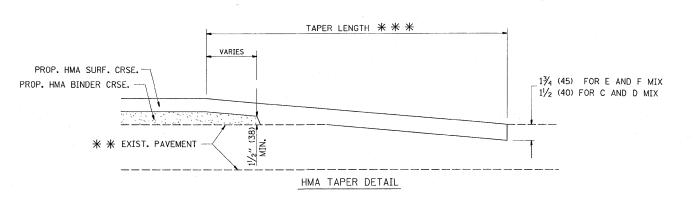
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





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'-O" (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.

BASIS OF PAYMENT:

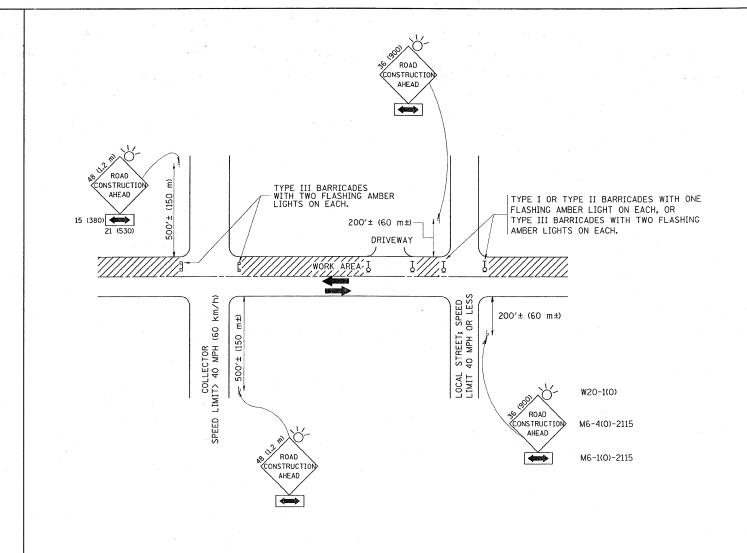
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

| FILE NAME = | USER NAME = estimablek | DESIGNED | - | M. DE YONG | REVISED | - | R. SHAH 10-25-94 |
|---|-----------------------------|----------|---|------------|---------|---|-------------------|
| c:\pw_work\PWIDOT\ESTIMABLEK\dØ137730\D | ıstStd.dgn | DRAWN | - | | REVISED | - | A. ABBAS 03-21-97 |
| | PLOT SCALE = 50.0000 '/ IN. | CHECKED | - | | REVISED | | M. GOMEZ 04-06-01 |
| | PLOT DATE = 4/20/2009 | DATE | - | 06-13-90 | REVISED | | R. BORO 01-01-07 |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| | вит | T JOINT A | \ND | | F.A.P. RTE. | SEC | TION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------------|-----------|-------|---------|----------------|-----------------|------------------|-----------|-----------------|--------------|
| | HARA | TAPER DE | PHAT | - | 345 | 8R-1/ | C-RS | KANE | 10 | 17 |
| | BINIA | IMPER DE | IMILO | | | BD400-05 | BD32 | CONTRACT | NO. 60 | DH12 |
| SCALE: NONE | SHEET NO. 1 OF 1 | SHEETS | STA. | TO STA. | FED. R | DAD DIST. NO. 1 | ILLINOIS FED. AI | D 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:
- d) 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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 COODITIONS 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.

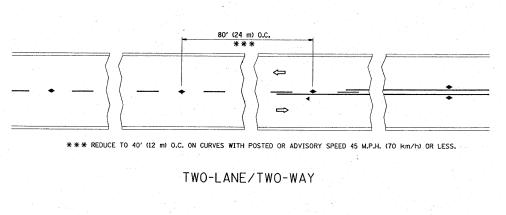
All dimensions are in millimeters (inches) unless otherwise shown.

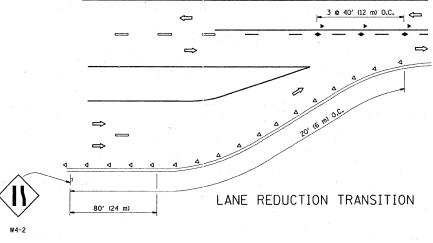
| FILE NAME = | USER NAME = estimablek | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95 |
|--|-----------------------------|----------------|--------------------------------|
| -c:\pw_work\PWIDOT\ESTIMABLEK\d0137730\D | ıstStd.dgn | DRAWN - | REVISED - A. HOUSEH 03-06-96 |
| | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | REVISED - A. HOUSEH 10-15-96 |
| | PLOT DATE = 4/20/2009 | DATE - 06-89 | REVISED -T. RAMMACHER 01-06-00 |

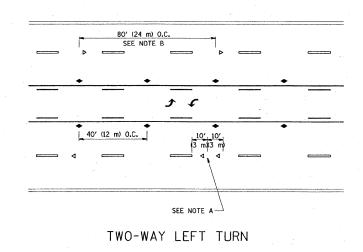
| STAT | E OF | ILLINOIS | |
|------------|------|----------------|--|
| DEPARTMENT | OF | TRANSPORTATION | |

| | TRAFFIC CONTROL AND SIDE ROADS, INTERSECTION | | F.A.P. RTE. 345 |
|-------------|---|--------------|-----------------------|
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEET NO. |
|----------------|-----------------------------------|------------|--------|--------------|
| 345 | 8R-1AC-RS | KANE | 11 | 17 |
| | TC-10 | CONTRACT | NO. 60 |)H12 |
| FED. R | OAD DIST. NO. 1 ILLINOIS FED. A | ID PROJECT | | |

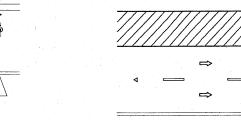






80' (24 m) 0.C. SEE NOTE B 40' (12 m) O.C. \Rightarrow SEE NOTE A-

MULTI-LANE/UNDIVIDED



80' (24 m) O.C. SEE NOTE B SEE NOTE A -

MULTI-LANE/DIVIDED

GENERAL NOTES

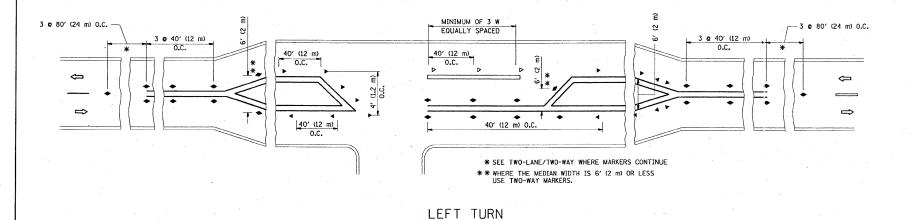
- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE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

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.

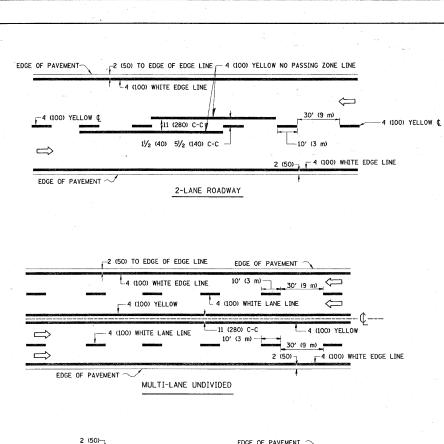
SYMBOLS

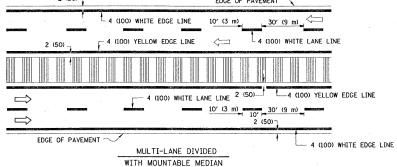
- ---- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER



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

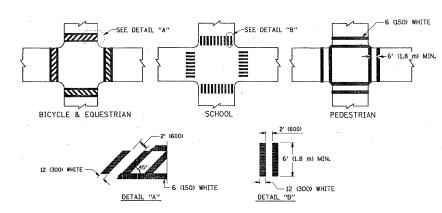
| TO TRAIN OF TRAINS PORTATION REVISED -T. RAMMACHER 03-12-99 PLOT SCALE = 50,0000 / IN. CHECKED - REVISED -T. RAMMACHER 01-06-00 REVISED -T. RAMMACHER 01-06-00 REVISED -T. RAMMACHER 01-06-00 REVISED -T. RAMMACHER 01-06-00 DEPARTMENT OF TRANS-PORTATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) TC-11 CONTRACT NO. 60H12 | | FILE NAME = | USER NAME = estimablek | DESIGNED - | REVISED - T. RAMMACHER 09-19-94 | | TYPICAL APPLICATIONS | F.A.P. SECTION | COUNTY TOTAL SHEET |
|--|-----|--|-----------------------------|------------|---------------------------------|------------------------------|--|---------------------------------------|--------------------|
| TC-11 CONTRACT NO. 60H12 | - 1 | o:\pw_wark\pwidat\estimablek\d@137730\Di | stStd.dgn | DRAWN - | REVISED - T. RAMMACHER 03-12-99 | STATE OF ILLINOIS | | 345 8R-1AC-RS | KANE 12 17 |
| PLOT DATE = 4/20/2009 DATE - REVISED - STA. TO STA. FED ROAD DIST NO. 1 THE INDISTRICT | - 1 | * * * | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | REVISED -T. RAMMACHER 01-06-00 | DEPARTMENT OF TRANSPORTATION | | TC-11 | CONTRACT NO. 60H12 |
| STALL THAT STALL S | L | | PLOT DATE = 4/20/2009 | DATE ~ | REVISED - | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. A | AID PROJECT |



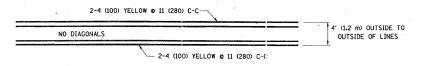


TYPICAL LANE AND EDGE LINE MARKING

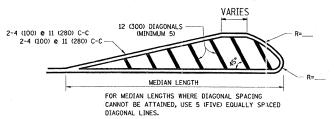
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE



TYPICAL CROSSWALK MARKING

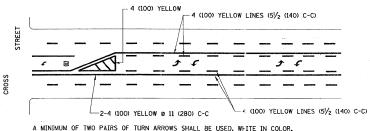


4' (1.2 m) WIDE MEDIANS ONLY



DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

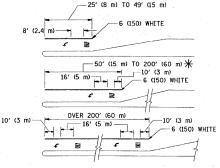


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLORADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

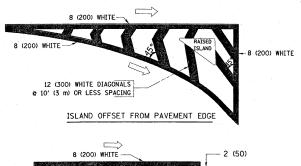


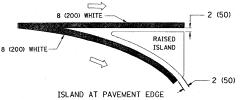
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) \P AREA = 20.8 SQ. FT. (1.9 m²)

* 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 UNDIVEDED PAYEMENT | 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 (6' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION | SKIP-DASH AND SOLID | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE |
| | 8' (2.4m) LEFT ARROW | IN PAIRS | WHITE | 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 | SOLID | YELLOW: TWO WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE |
| | NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | | WHITE: ONE WAY TRAFFIC | 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) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h)) |

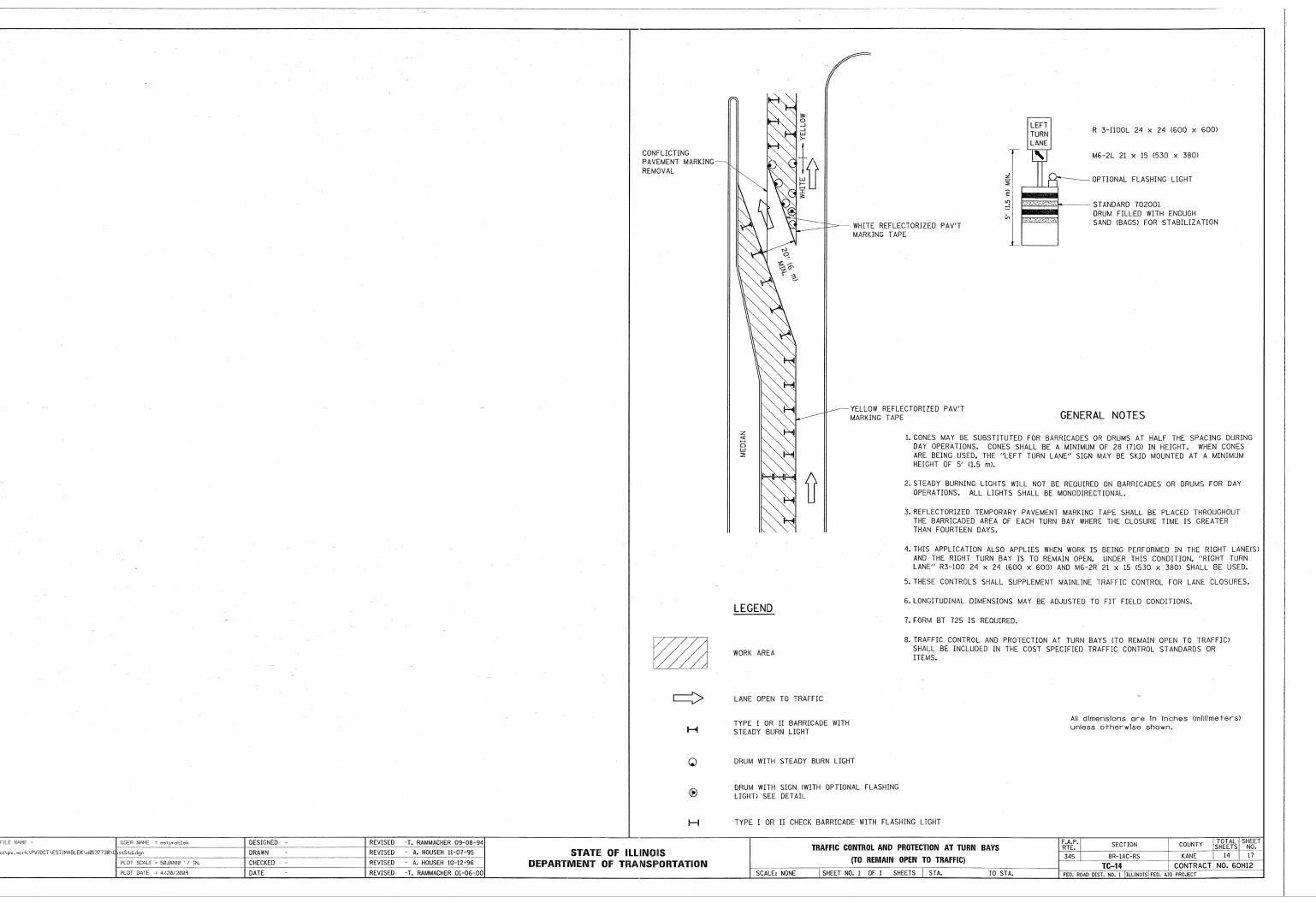
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

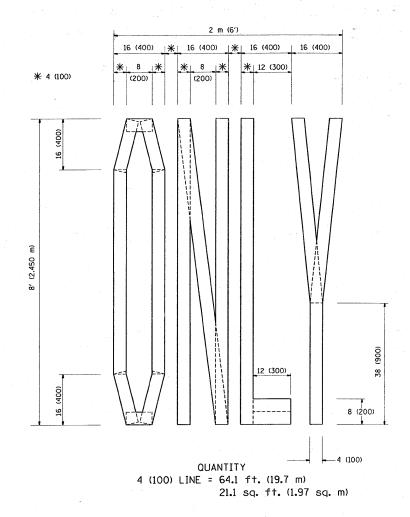
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| | PLOT SCALE = 50.0000 '/ IN. | CHECKED - | REVISED -A. HOUSEH 10-17-96 |
| | PLOT DATE = 4/20/2009 | DATE - 03-19-90 | REVISED -T. RAMMACHER 01-06-00 |

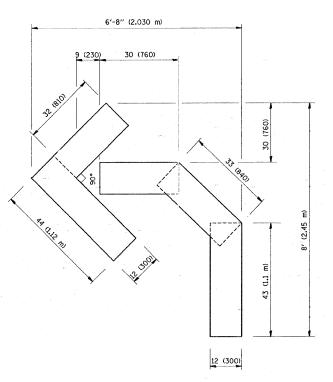
| STATE | OF | ILLINOIS | |
|--------------|------|-----------------------|--|
| DEPARTMENT (| OF T | TRANSPORTATION | |

| | DISTRICT | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
|--|---------------------------|----------------|---------|--------|-----------------|--------------|--------|------|
| | TYPICAL PAVEMENT MARKINGS | | | | | KANE | 13 | 17 |
| | | | | | | CONTRACT | NO. 60 |)H12 |
| SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | | |

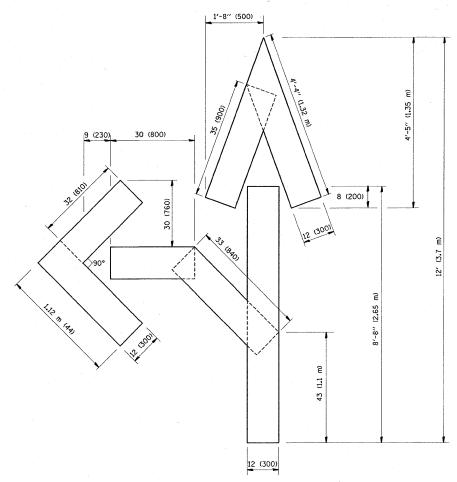


FILE NAME =





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



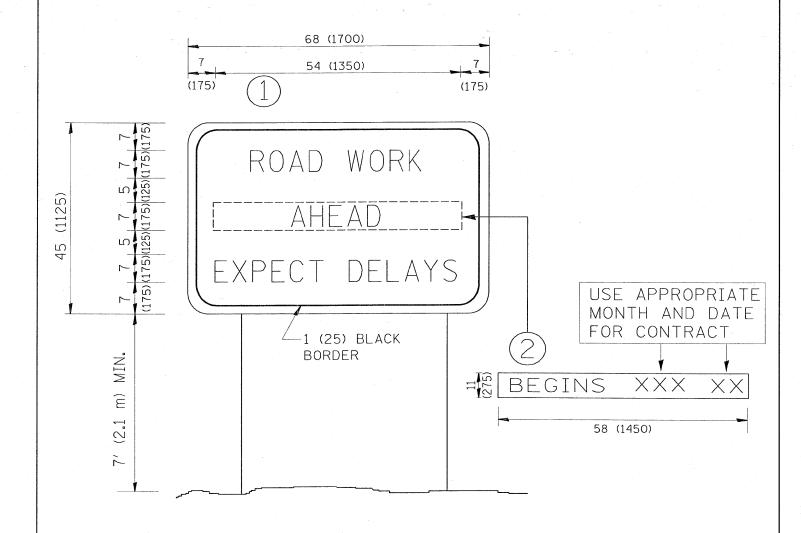
QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

| I | FILE NAME = | USER NAME = estimablek | DESIGNED | - | | REVISED | -т. | RAMMACHER | 06-05-96 |
|---|---|-----------------------------|----------|---|----------|---------|------|------------|----------|
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| | | PLOT SCALE = 50.0000 '/ IN. | CHECKED | - | | REVISED | -T. | RAMMACHER | 03-02-98 |
| | | PLOT DATE = 4/20/2009 | DATE | - | 09-18-94 | REVISED | - E. | GOMEZ 08-2 | 28-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| PAVEMENT MARKING LETTERS AND SYMBOLS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|----------------|----------------------------------|-----------|-----------------|--------------|
| FOR TRAFFIC STAGING | 345 | 8R-1AC-RS | KANE | 15 | 17 |
| FUN INAFFIC STAUMU | | TC-16 | CONTRACT | NO. 60 | H12 |
| SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. RO | OAD DIST. NO. 1 ILLINOIS FED. AI | D 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 = | USER NAME = estimablek | DESIGNED - | REVISED - R. MIRS 09-15-97 | | | ARTERIAL ROAD | | F.A.P. | SECTION | COUNTY | TOTAL SHEET |
|---|-----------------------------|------------|--------------------------------|------------------------------|-------------|------------------------------|---------|--------------|---------------------------|------------|-------------|
| c:\pw_work\PWIDOT\EST[MABLEK\d0137730\C | istStd.dgn | DRAWN - | REVISED - R. MIRS 12-11-97 | STATE OF ILLINOIS | | INFORMATION SIGN | | 345 | 8R-1AC-RS | KANE | 16 17 |
| | PLOT SCALE = 50.0000 '/ IN. | CHECKED ~ | REVISED -T. RAMMACHER 02-02-99 | DEPARTMENT OF TRANSPORTATION | | | | | TC-22 | CONTRAC | T NO. 60H12 |
| | PLOT DATE = 4/20/2009 | DATE - | REVISED - C. JUCIUS 01-31-07 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. ROAD DI | ST. NO. 1 ILLINOIS FED. A | ID PROJECT | |

LOOPS NEXT TO SHOULDERS

* = (600 mm)

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

(3.0 m)

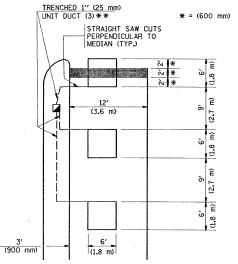
(1.5 m) (1.8 m) (1.5 m)

(3.0 m)

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.

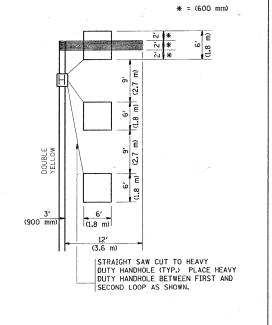


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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)



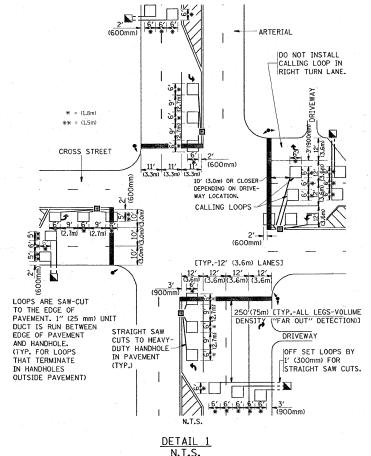
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

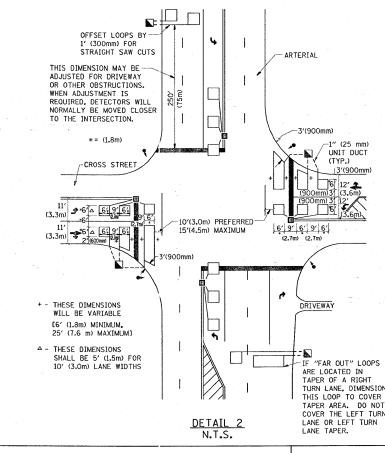
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)

1" (25 mm) UNIT DUCT-TRENCHED

TO F/P **

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





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 SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> 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.

| 11101 | | | | | | | |
|--|-----------------------------|------------------|-----------|--|--|--|--|
| ILE NAME = | USER NAME = estimablek | DESIGNED - | REVISED - | | | | |
| :\pw_work\PWIDOT\ESTIMABLEK\dØ13773Ø\D | istStd.dgn | DRAWN - | REVISED - | | | | |
| | PLOT SCALE = 50.0000 '/ IN. | CHECKED - R.K.F. | REVISED - | | | | |
| | PLOT DATE = 4/20/2009 | DATE - | REVISED - | | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | DISTRICT 1 - DETECTOR LOOP INSTALLATION | | | | | |
|-------------|---|-------------|-------------|---------|--|--|
| | DETAILS | FOR ROADWAY | RESURFACING | | | |
| SCALE: NONE | SHEET NO. 1 OF | 1 SHEETS | STA. | TO STA. | | |

| FED. RC | DAD DIST. NO. 1 ILLINOIS FED. A | ID PROJECT | | | J |
|----------------|---------------------------------|--------------------|--------|-----|---|
| TS-07 | | CONTRACT NO. 60H12 | | | ŀ |
| 345 | 8R-1AC-RS | KANE | 17 | 17 | |
| F.A.P. RTE. | SECTION | COUNTY | SHEETS | NO. | ŀ |