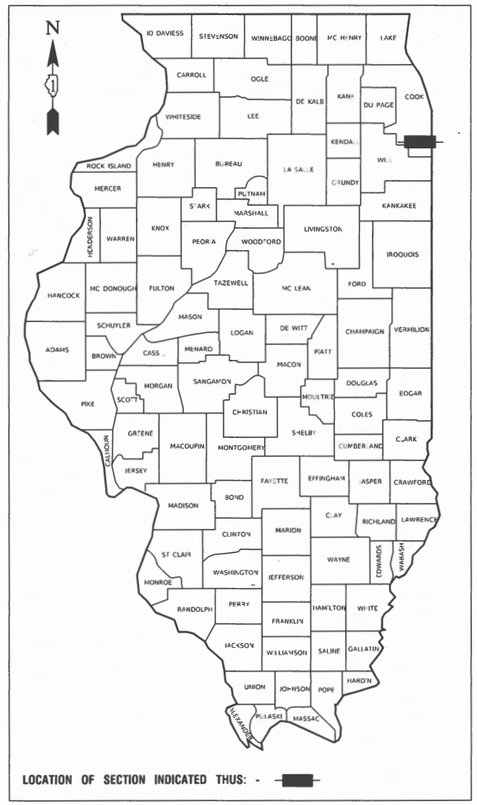
| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 1 |
| | ILLINOIS | CONTRACT NO. 61L01 | | |

03-07-2025 LETTING ITEM 003

# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

## FAU ROUTE 0084 (171ST STREET)
## DIXIE HIGHWAY TO WOOD STREET
## ROADWAY RESURFACING
## SECTION NO.: 24-00096-00-RS
## PROJECT NO.: 1CWT(209)
## VILLAGE OF HAZEL CREST
## COOK COUNTY
## JOB NO.: C-91-013-25




LOCATION OF SECTION INDICATED THUS: -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

| 171ST STREET | |
|---|---|
| DIXIE HIGHWAY TO WOOD STREET | |
| 2022 ADT- | 4,500 |
| POSTED SPEED LIMIT- | 30 MPH |
| FUNCTIONAL CLASSIFICATION- | MAJOR COLLECTOR |

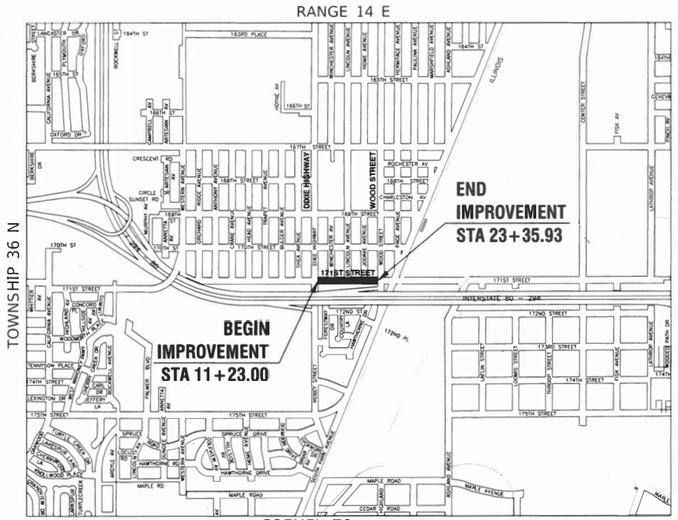
SCALES } PLAN - 1"=50'

0 50' 100' - 1"= 50'

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
OR 811

RANGE 14 E




LOCATION MAP
NOT TO SCALE

GROSS LENGTH= 1,212.93 FEET= 0.23 MILES
NET LENGTH= 1,212.93 FEET= 0.23 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 12-15-2024
Vernard L. Alsbury Jr.
VILLAGE OF HAZEL CREST, MAYOR

PASSED Jan 2, 2025
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 1-6-2025
REGIONAL ENGINEER

WILLIAM P. DOLAN
62-57490
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
LICENSE EXPIRES: 11/30/25

12-15-24

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 61L01

FEDERAL AID PROGRAM ENGINEER: CARMEN RAMOS, PE, SCHAUMBURG, IL
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

## INDEX OF SHEETS



## HIGHWAY STANDARDS

| | |
|---|---|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 424001-12 | PERPENDICULAR CURB RAMPS FOR SIDEWALKS |
| 424021-07 | DEPRESSED CORNERS FOR SIDEWALKS |
| 442201-03 | CLASS C AND D PATCHES |
| 604001-05 | FRAMES AND LIDS TYPE 1 |
| 606001-08 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 701001-02 | OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600m) FROM PAVEMENT EDGE |
| 701011-04 | OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701801-06 | SIDEWALK, CORNER OR CROSSWALK CLOSURE |
| 701901-10 | TRAFFIC CONTROL DEVICES |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |
| 886006-01 | TYPICAL LAYOUTS FOR DETECTION LOOPS |

## DISTRICT ONE DETAILS

| | |
|---|---|
| BD-22 | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT |
| BD-32 | BUTT JOINTS AND HMA TAPER |
| TC-10 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS |
| TC-11 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) |
| TC-13 | DISTRICT ONE TYPICAL PAVEMENT MARKINGS |
| TC-16 | SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS |
| TC-22 | ARTERIAL ROAD INFORMATION SIGN |
| TC-26 | DRIVEWAY ENTRANCE SIGNING |
| TS-05 | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS |
| TS-07 | DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING |

## GENERAL NOTES

1. ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
2. THE ROBINSON ENGINEERING, LTD. FIELD OFFICE (708-331-6700), AND THE PUBLIC WORKS DIRECTOR, AT THE VILLAGE OF HAZEL CREST (708-335-9600), SHALL BE NOTIFIED THREE (3) WORKING DAYS BEFORE CONSTRUCTION BEGINS.
3. BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 AND (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED)
4. UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTOR'S USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITY INFORMATION.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
6. THE THICKNESS OF HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED.
7. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SHALL BE REMOVED BY THE END OF EACH DAY BY THE CONTRACTOR.
8. CLASS D PATCHING QUANTITIES FOR THIS CONTRACT SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER AFTER PAVEMENT MILLING.
9. CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
10. ALL EQUIPMENT SHALL BE REMOVED OFF THE VILLAGE STREETS DURING ALL HOLIDAY WEEKENDS AS COORDINATED WITH THE VILLAGE.
11. NO PAVEMENT PATCHING SHALL BE PERMITTED AFTER FRIDAY AT 3:00 PM OF EACH AND EVERY WEEK AND NO HOLES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT OR OVER THE WEEKEND.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR FOR ALL LOCATES RELATED TO THE TRAFFIC SIGNAL EQUIPMENT.
13. HMA PAVING SHALL BE PERFORMED WITH HOT JOINTS.
14. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

| CODE NO. | PAY ITEM | UNIT | TOTAL QUANTITY | FED 100% VILLAGE 0% ROADWAY CONSTRUCTION TYPE CODE 0005 | FED 100% VILLAGE 0% SAFETY CONSTRUCTION TYPE CODE 0021 |
|---|---|---|---|---|---|
| 20200100 | EARTH EXCAVATION | CU YD | 10 | 10 | |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 25 | 25 | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 250 | 250 | |
| 25200110 | SODDING, SALT TOLERANT | SQ YD | 250 | 250 | |
| 25200200 | SUPPLEMENTAL WATERING | UNIT | 15 | 15 | |
| 28000510 | INLET FILTERS | EACH | 36 | 36 | |
| 30300001 | AGGREGATE SUBGRADE IMPROVEMENT | CU YD | 25 | 25 | |
| 35101600 | AGGREGATE BASE COURSE, TYPE B 4" | SQ YD | 145 | | 145 |
| 35800100 | PREPARATION OF BASE | SQ YD | 100 | 100 | |
| 40201000 | AGGREGATE FOR TEMPORARY ACCESS | TON | 25 | 25 | |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 3,520 | 3,520 | |
| 40600370 | LONGITUDINAL JOINT SEALANT | FOOT | 1,730 | 1,730 | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 85 | 85 | |
| 40603200 | POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 | TON | 220 | 220 | |
| 40604060 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 | TON | 440 | 440 | |
| 42300300 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH | SQ YD | 40 | 40 | |

* SPECIALTY ITEM

FILE NAME = 24R0355-QUAN-01 - 001

| | | | |
|---|---|---|---|
| USER NAME = | DESIGNED — AL | REVISED — | |
| | CHECKED — WPD | REVISED — | |
| PLOT SCALE = | DRAWN — RG | REVISED — | |
| PLOT DATE = 12-15-24 | CHECKED — BG | REVISED — | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

171ST STREET
ROADWAY RESURFACING
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 23 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00095-00-RS | COOK | 23 | 3 |
| | | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |

| | | | | FED 100% | FED 100% |
|---|---|---|---|---|---|
| | | | | VILLAGE 0% | VILLAGE 0% |
| | | | | ROADWAY | SAFETY |
| CODE NO. | PAY ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION TYPE CODE | |
| | | | | 0005 | 0021 |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 1,360 | | 1,360 |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 75 | | 75 |
| 44000157 | HOT-MIX ASPHALT SURFACE REMOVAL, 2" | SQ YD | 5,215 | 5,215 | |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 75 | 75 | |
| 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 600 | 600 | |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 1,250 | | 1,250 |
| 44201773 | CLASS D PATCHES, TYPE I, 11 INCH | SQ YD | 5 | 5 | |
| 44201777 | CLASS D PATCHES, TYPE II, 11 INCH | SQ YD | 20 | 20 | |
| 44201781 | CLASS D PATCHES, TYPE III, 11 INCH | SQ YD | 25 | 25 | |
| 44201783 | CLASS D PATCHES, TYPE IV, 11 INCH | SQ YD | 50 | 50 | |
| 60266600 | VALVE BOXES TO BE ADJUSTED | EACH | 4 | 4 | |
| 60603800 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | FOOT | 250 | 250 | |
| 60604400 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 | FOOT | 350 | 350 | |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 35 | 35 | |
| * 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 1 | 1 | |
| * 66901001 | REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN | L SUM | 1 | 1 | |

* SPECIALTY ITEM

| | | | |
|---|---|---|---|
| FILE NAME = 24R0355-QUAN-01 - Q02 | USER NAME = | DESIGNED — AL | REVISED — |
| | | CHECKED — WPD | REVISED — |
| | PLOT SCALE = | DRAWN — RG | REVISED — |
| | PLOT DATE = 12-15-24 | CHECKED — BG | REVISED — |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

171ST STREET
ROADWAY RESURFACING
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. 4 OF 23 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 4 |
| | | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |

| | | | | | FED 100% | FED 100% |
|---|---|---|---|---|---|---|
| | | | | | VILLAGE 0% | VILLAGE 0% |
| | | | | | ROADWAY | SAFETY |
| | CODE NO. | PAY ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION TYPE CODE | |
| | | | | | 0005 | 0021 |
| * | 66901003 | REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT | L SUM | 1 | 1 | |
| | | | | | | |
| * | 66901006 | REGULATED SUBSTANCES MONITORING | CAL DA | 4 | 4 | |
| | | | | | | |
| | 67100100 | MOBILIZATION | L SUM | 1 | 1 | |
| | | | | | | |
| | 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 | 1 | |
| | | | | | | |
| | 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 1 | |
| | | | | | | |
| | 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L SUM | 1 | 1 | |
| | | | | | | |
| | 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 1,225 | | 1,225 |
| | | | | | | |
| | 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 410 | | 410 |
| | | | | | | |
| | 70300211 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT | SQ FT | 225 | | 225 |
| | | | | | | |
| | 70300221 | TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT | FOOT | 7,275 | | 7,275 |
| | | | | | | |
| | 70300241 | TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT | FOOT | 1,200 | | 1,200 |
| | | | | | | |
| | 70300261 | TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT | FOOT | 2,850 | | 2,850 |
| | | | | | | |
| | 70300281 | TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT | FOOT | 195 | | 195 |
| | | | | | | |
| * | 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 75 | | 75 |
| | | | | | | |
| * | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 2,425 | | 2,425 |
| | | | | | | |
| * | 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 400 | | 400 |
| | | | | | | |

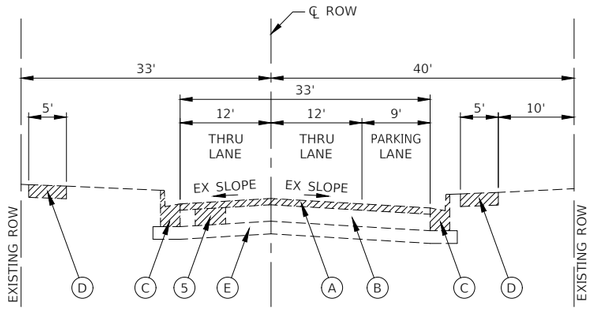
* SPECIALTY ITEM

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FILE NAME = 24R0355-QUAN-01 - 003 | USER NAME = | DESIGNED - AL | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | 171ST STREET<br>ROADWAY RESURFACING<br>SUMMARY OF QUANTITIES | | | F.A.U RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | CHECKED - WPD | REVISED - | | | | | 0084 | 24-00096-00-RS | COOK | 23 | 5 |
| | PLOT SCALE = | DRAWN - RG | REVISED - | | | | | | | CONTRACT NO. 61L01 | | |
| | PLOT DATE = 12-15-24 | CHECKED - BG | REVISED - | | SCALE: | SHEET NO. 5 OF 23 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |

| | | | | | FED 100% | FED 100% |
|---|---|---|---|---|---|---|
| | | | | | VILLAGE 0% | VILLAGE 0% |
| | | | | | ROADWAY | SAFETY |
| | CODE NO. | PAY ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION TYPE CODE | |
| | | | | | 0005 | 0021 |
| * | 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 950 | | 950 |
| * | 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 65 | | 65 |
| * | 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 60 | | 60 |
| | 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 60 | | 60 |
| | 78300202 | PAVEMENT MARKING REMOVAL - WATER BLASTING | SQ FT | 2,000 | | 2,000 |
| | 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 | 2 | |
| * | X8860105 | DETECTOR LOOP REPLACEMENT | FOOT | 210 | | 210 |
| | Z0004514 | HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4" | SQ YD | 35 | 35 | |
| | Z0017400 | DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED | EACH | 42 | 42 | |
| | Z0017700 | DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED | EACH | 1 | 1 | |
| | Z0030850 | TEMPORARY INFORMATION SIGNING | SQ FT | 125 | | 125 |

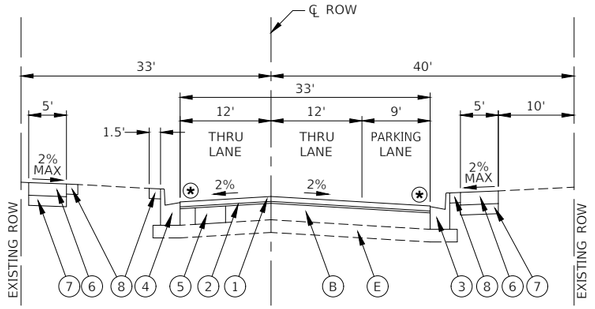
* SPECIALTY ITEM

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FILE NAME = 24R035S-QUAN-01 - Q04 | USER NAME = | DESIGNED - AL | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | 171ST STREET ROADWAY RESURFACING SUMMARY OF QUANTITIES | | | F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | CHECKED - WPD | REVISED - | | | | | 0084 | 24-00096-00-RS | COOK | 23 | 6 |
| | PLOT SCALE = | DRAWN - RG | REVISED - | | | | | | | CONTRACT NO. 61L01 | | |
| | PLOT DATE = 12-15-24 | CHECKED - BG | REVISED - | | SCALE: | SHEET NO. 6 OF 23 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




## EXISTING TYPICAL SECTION

**171ST STREET**
**STA 11+23.00 TO STA 23+35.93**




## PROPOSED TYPICAL SECTION

**171ST STREET**
**STA 11+23.00 TO STA 23+35.93**

⊛ FINISHED PAVEMENT SURFACE SHALL BE 1/4" ABOVE TOP OF GUTTER

## EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, 13"
- (C) EXISTING COMBINATION CURB AND GUTTER REMOVAL (AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY ENGINEER)
- (D) EXISTING PORTLAND CEMENT CONCRETE SIDEWALK REMOVAL (AT LOCATIONS AS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- (E) EXISTING AGGREGATE SUBBASE, 6"
- ▨ ITEMS TO BE REMOVED (AS DIRECTED BY ENGINEER)

## NOTE

1. LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 PRIOR TO THE SURFACE COURSE.
2. ALL PATCHING OPERATIONS SHALL TAKE PLACE AFTER SURFACE MILLING HAS BEEN COMPLETED.

## PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5. MIX "D", N50, 1 1/2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (AT LOCATIONS AS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (AT LOCATIONS AS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- (5) CLASS D PATCHES, 11 INCH PREPARATION OF BASE AGGREGATE SUBGRADE IMPROVEMENT (AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- (6) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- (7) AGGREGATE BASE COURSE, TYPE B 4"
- (8) TOPSOIL FURNISH AND PLACE, 4" AND SODDING, SALT TOLERANT (AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)

## HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| MIXTURE TYPE | AIR VOIDS @ Ndes | QMP |
|---|---|---|
| ROADWAY RESURFACING | | |
| HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2" | 4% @ 50 Gyr. | LR 1030-2 |
| POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4" | 3.5% @ 50 Gyr. | LR 1030-2 |
| HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4" | | |
| HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2" | 4% @ 50 Gyr. | LR 1030-2 |
| HOT-MIX ASPHALT BINDER COURSE. IL-19.0, N50, 2 1/2" | 4% @ 50 Gyr. | LR 1030-2 |
| PATCHING | | |
| CLASS D PATCHES (HMA BINDER IL-19mm), 11" | 4% @ 70 Gyr. | LR 1030-2 |
| QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2 | | |

NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE IS 112 LBS/SQ/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG-64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

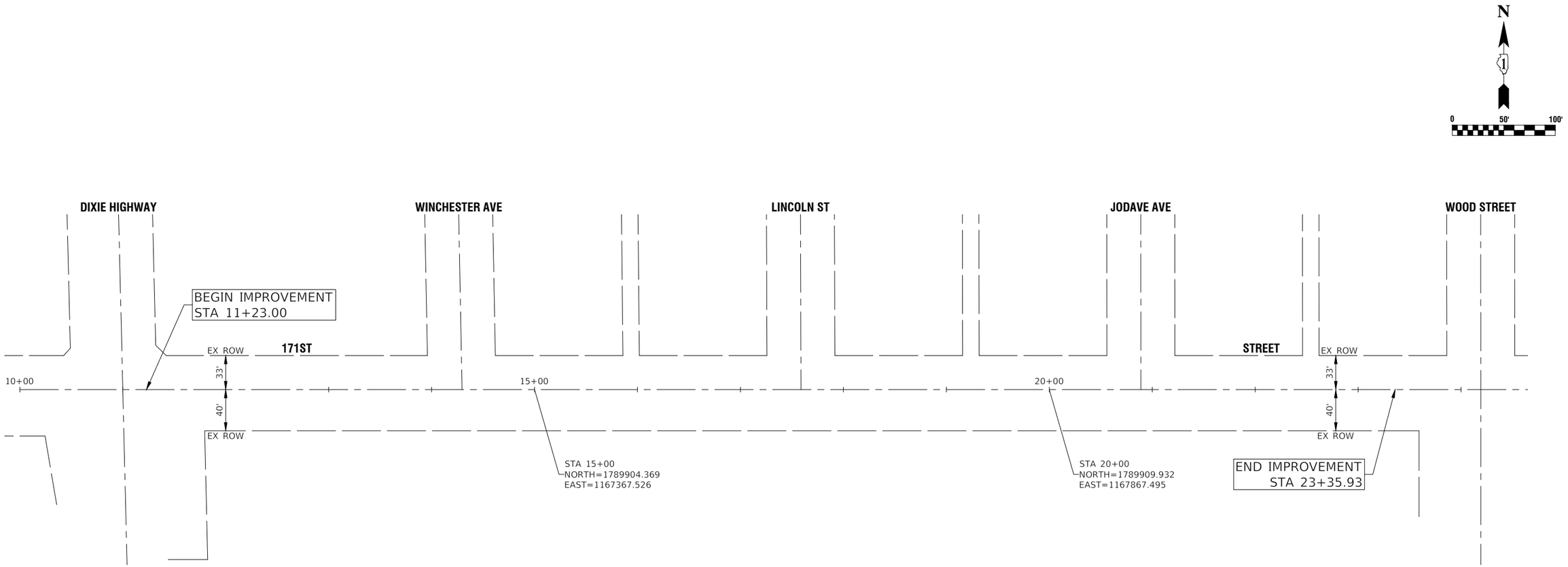
| | | | |
|---|---|---|---|
| FILE NAME = 24R0355-TYPX-01 - P01 | USER NAME = | DESIGNED — AL | REVISED — |
| | | CHECKED — WPD | REVISED — |
| | PLOT SCALE = | DRAWN — RG | REVISED — |
| | PLOT DATE = 12-15-24 | CHECKED — AG | REVISED — |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

171ST STREET
ROADWAY RESURFACING
TYPICAL CROSS SECTIONS

SCALE: NONE | SHEET NO. 7 OF 23 SHEETS | STA. | TO STA.

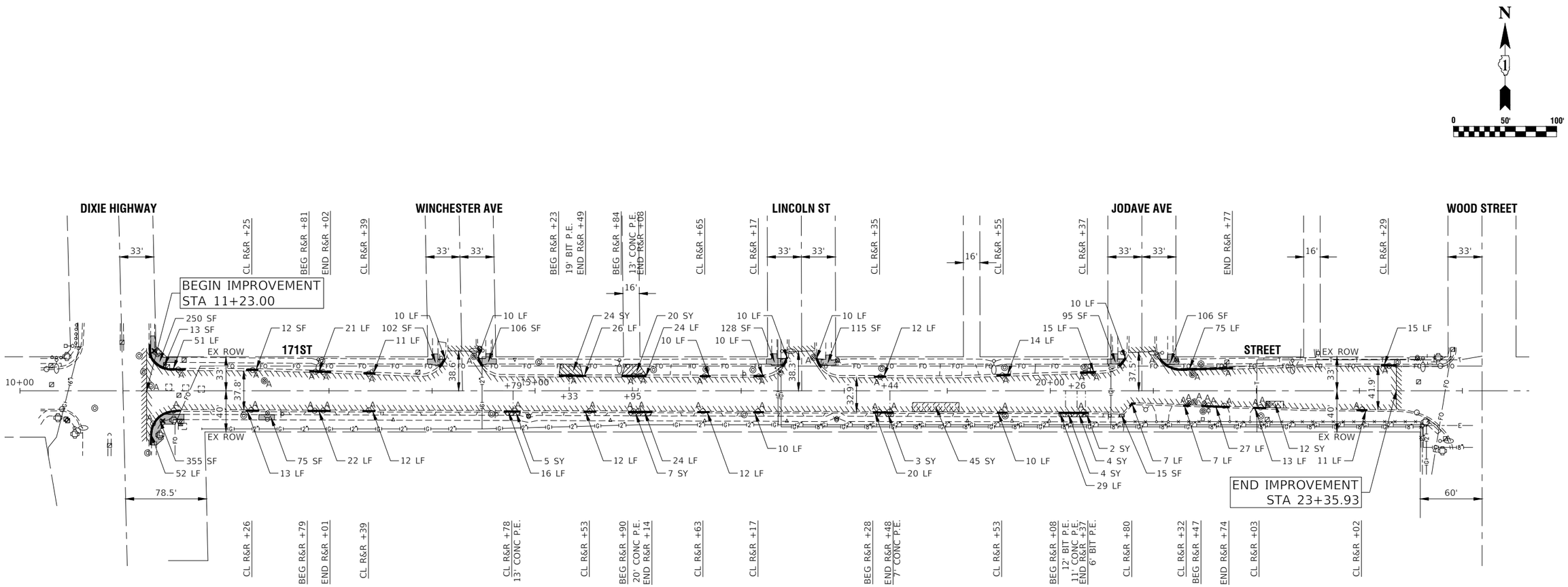
| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 7 |
| | | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




## NOTES

1. COORDINATES ARE BASED ON ILLINOIS STATE PLANE EASTERN ZONE NORTH AMERICAN DATUM 1983.
2. SURVEY FEET UNITS WERE USED.
3. ALL ELEVATIONS REFER TO NAVD88 DATUM.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FILE NAME = 24R0355-TIES-01 - P01 | USER NAME = | DESIGNED — AL | REVISED — | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | 171ST STREET ROADWAY RESURFACING ALIGNMENT AND TIES | F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | CHECKED — WPD | REVISED — | | | 0084 | 24-00096-00-RS | COOK | 23 | 8 |
| | PLOT SCALE = | DRAWN — RG | REVISED — | | | | | CONTRACT NO. 61L01 | | |
| | PLOT DATE = 12-15-24 | CHECKED — AG | REVISED — | | SCALE: 1"=50' SHEET NO. 8 OF 23 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




## LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
  POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
  HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5"
- SIDEWALK REMOVAL
- SIDEWALK REMOVAL
  PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (7 INCH THRU DRIVEWAYS)
  AGGREGATE BASE COURSE, TYPE B 4"
- CLASS D PATCHES, 11 INCH
  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (AS DIRECTED BY ENGINEER)
  AGGREGATE SUBGRADE IMPROVEMENT (AS DIRECTED BY ENGINEER)
  PREPARATION OF BASE
- DRIVEWAY PAVEMENT REMOVAL
  HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"
- DRIVEWAY PAVEMENT REMOVAL
  PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- DETECTABLE WARNINGS - DW
- REMOVE EXISTING CONCRETE FOUNDATION

- COMBINATION CURB AND GUTTER REMOVAL
  COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 OR
  COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- "A" DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
  VALVE BOXES TO BE ADJUSTED
  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- "R" DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED
- EXISTING DETECTOR LOOP
- HMA SURFACE REMOVAL - BUTT JOINT
- BEG R&R +XX BEGIN STATION FOR CURB AND GUTTER REMOVAL AND REPLACEMENT
- END R&R +XX END STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT
- CL R&R +XX CENTER OF CURB AND GUTTER REMOVAL AND REPLACEMENT (UNDER 20 LINEAL FEET)

## NOTES:

ALL SIDEWALK RAMPS SHALL BE IN ACCORDANCE WITH THE HIGHWAY STANDARDS REFERENCED ON SHEET 2.

AREAS WHERE SIDEWALK IS TO BE REMOVED AND NOT REPLACED SHALL BE REPLACED WITH "TOPSOIL FURNISH AND PLACE, 4"" AND "SODDING, SALT TOLERANT" UNLESS OTHERWISE NOTED.

DRIVEWAY REMOVAL AND REPLACEMENT SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER.

CLASS D PATCHES, 11 INCH SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER.

ALL CURB AND GUTTER ON NORTH SIDE OF 171ST STREET WILL BE COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18.
ALL CURB AND GUTTER ON SOUTH SIDE OF 171ST STREET WILL BE COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

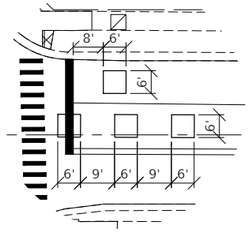
| | | | |
|---|---|---|---|
| FILE NAME = 24R0355-PLAN-01 - P01 | USER NAME = | DESIGNED — AL | REVISED — |
| | | CHECKED — WPD | REVISED — |
| | PLOT SCALE = | DRAWN — RG | REVISED — |
| | PLOT DATE = 12-15-24 | CHECKED — AG | REVISED — |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

171ST STREET
ROADWAY RESURFACING
PROPOSED IMPROVEMENT PLAN

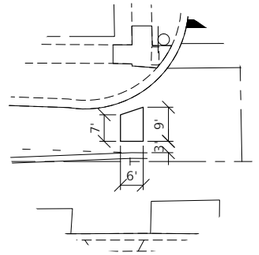
SCALE: 1"=50' | SHEET NO. 9 OF 23 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 9 |
| | | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |



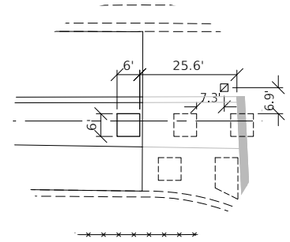

## DETAIL A

DETECTOR LOOP REPLACEMENT DETAIL
SCALE: 1"=20'



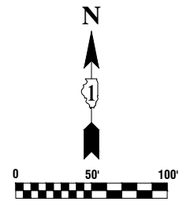

## DETAIL B

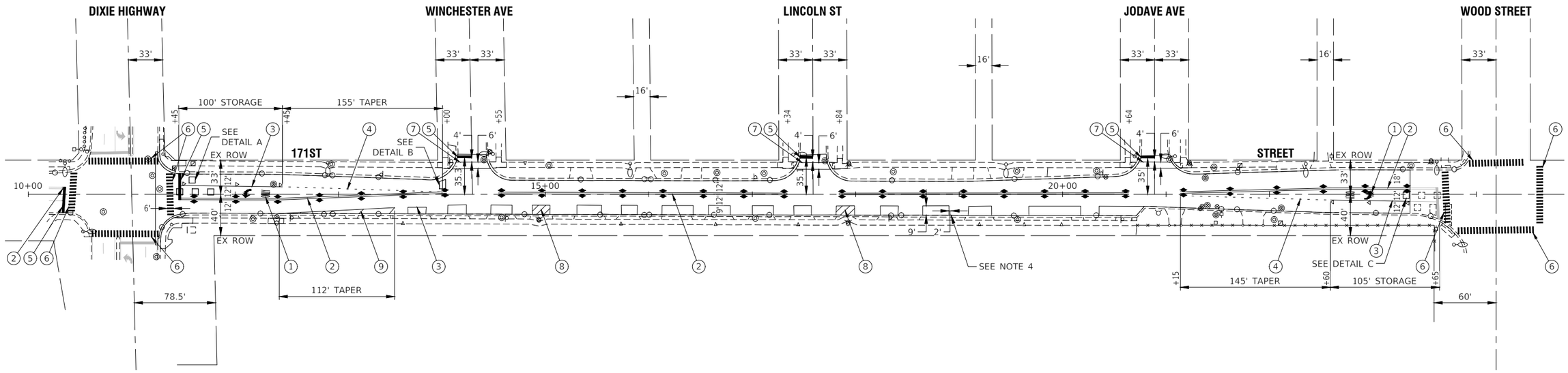
DETECTOR LOOP REPLACEMENT DETAIL
SCALE: 1"=20'




## DETAIL C

DETECTOR LOOP REPLACEMENT DETAIL
SCALE: 1"=20'




## PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW LINE (11" C-C)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE LANE LINE
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH (2' LINE-6' SPACE)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR LINE
6. THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CROSS-WALK (3' C-C)
7. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE CROSS-WALK (6' C-C OR AS DIMENSIONED)
8. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE DIAGONAL LINE (45° ANGLE, C-C)
9. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE DIAGONAL LINE (45° ANGLE, 20' C-C)

EXISTING DETECTOR LOOP

DETECTOR LOOP REPLACEMENT

## RAISED REFLECTIVE PAVEMENT MARKER

- ONE-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED
- ONE-WAY CRYSTAL MARKER 40' C/C UNLESS OTHERWISE INDICATED
- TWO-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED

## NOTES

1. SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.
3. SEE TC-11 DISTRICT ONE DETAIL FOR RAISED REFLECTIVE PAVEMENT GUIDANCE.
4. ALL PARKING STALLS WILL START 2' FROM THE EDGE OF A DRIVEWAY APRON AND CONTINUE UNTIL 2' FROM THE EDGE OF THE NEXT DRIVEWAY APRON.

| | | | |
|---|---|---|---|
| FILE NAME = 24R0355-PVMK-01 - P01 | USER NAME = | DESIGNED — AL | REVISED — |
| | | CHECKED — WPD | REVISED — |
| | PLOT SCALE = | DRAWN — RG | REVISED — |
| | PLOT DATE = 12-15-24 | CHECKED — AG | REVISED — |

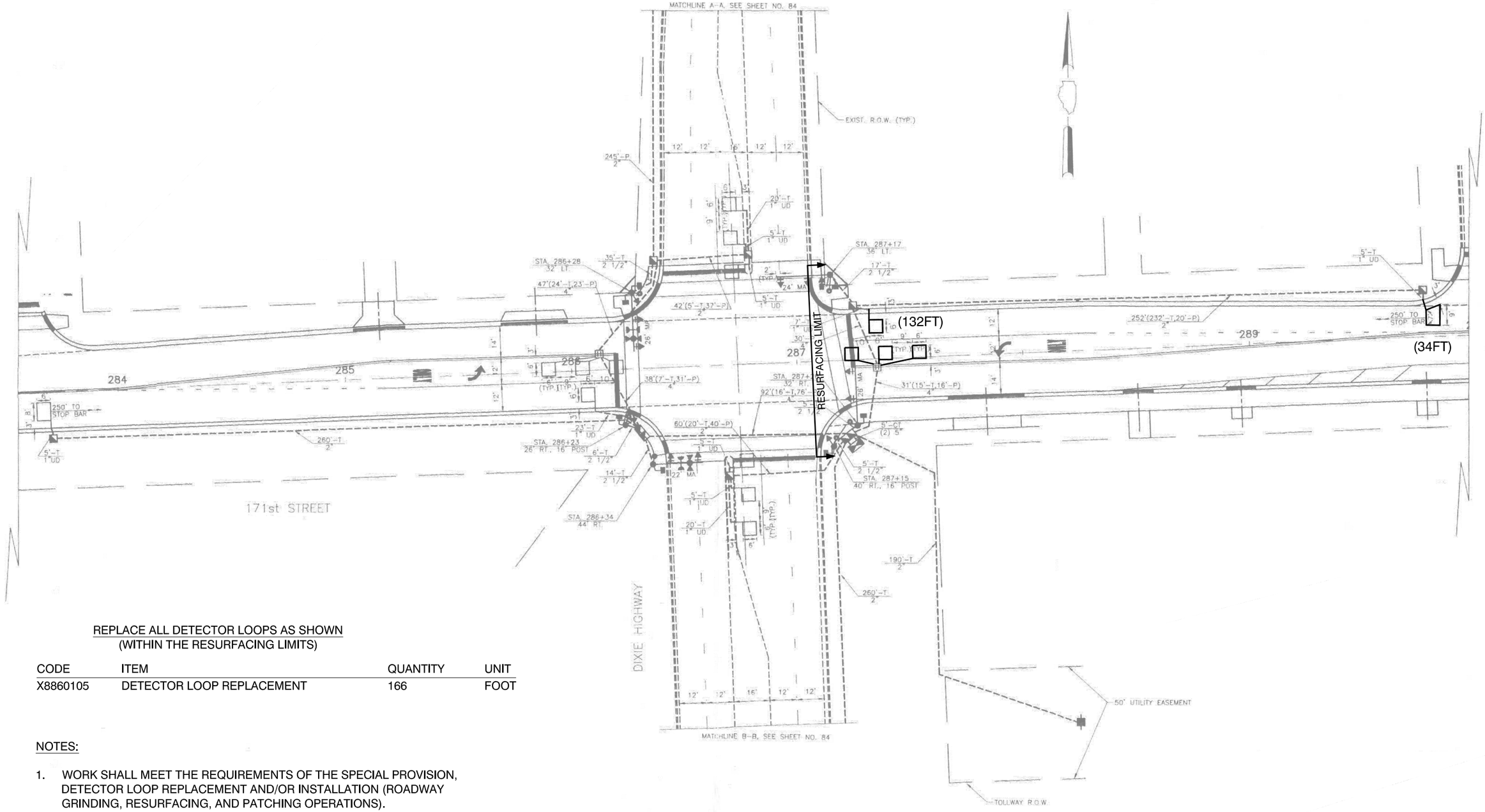
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

171ST STREET
ROADWAY RESURFACING
PAVEMENT MARKING & SIGNING

SCALE: 1"=50' | SHEET NO. 10 OF 23 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 10 |
| | | CONTRACT NO. 61L01 | | |

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209)




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

| CODE | ITEM | QUANTITY | UNIT |
|---|---|---|---|
| X8860105 | DETECTOR LOOP REPLACEMENT | 166 | FOOT |

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

TS #48

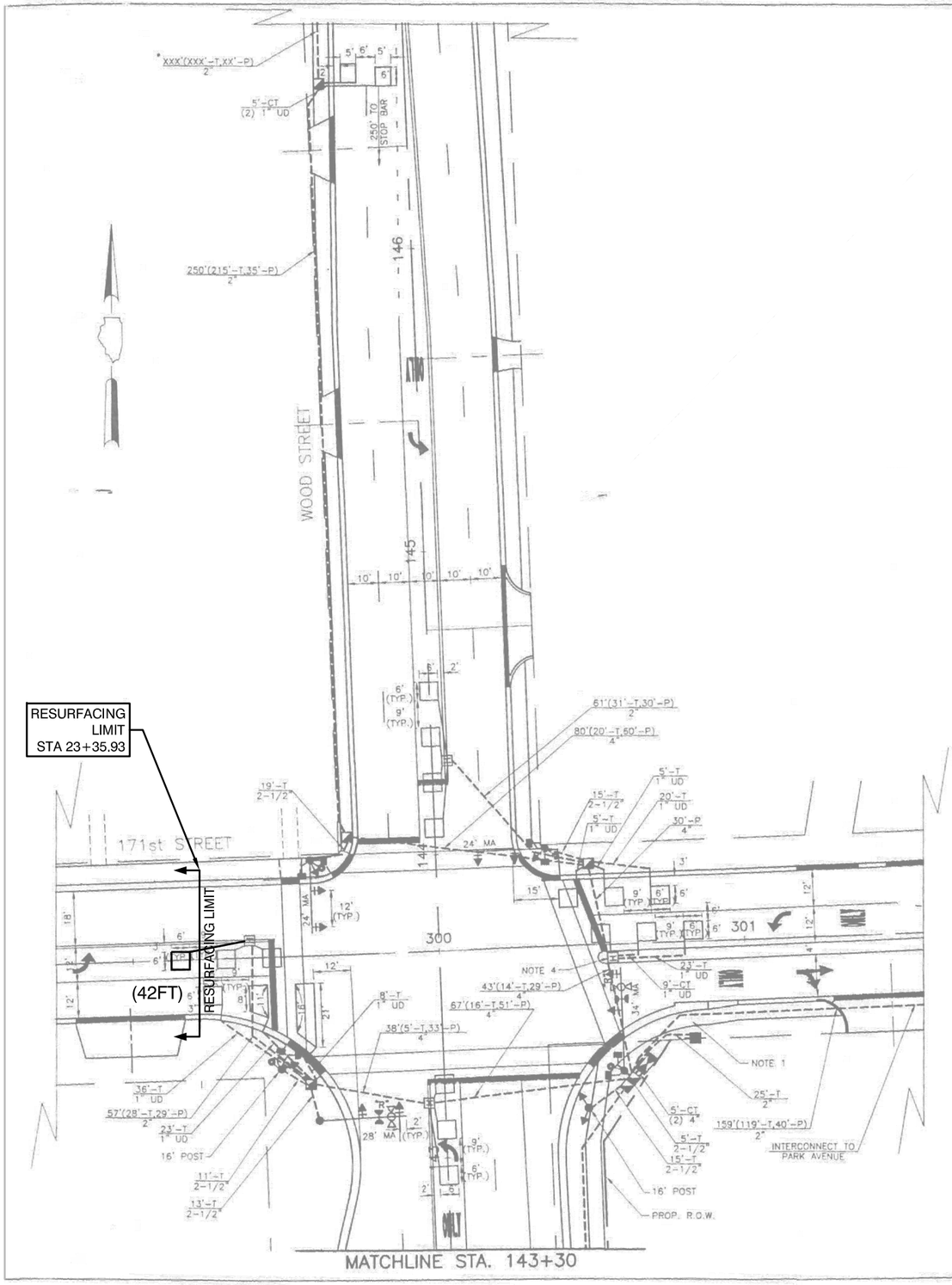
| | | | |
|---|---|---|---|
| FILE NAME = 24R0355-SGNL-LOOP-01 - DIXIE | USER NAME = | DESIGNED — AL | REVISED — |
| | | CHECKED — WPD | REVISED — |
| | PLOT SCALE = | DRAWN — RG | REVISED — |
| | PLOT DATE = 12-15-24 | CHECKED — BG | REVISED — |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
DIXIE HIGHWAY AT 171ST STREET

SCALE: NONE | SHEET NO. 11 OF 23 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 11 |
| | | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




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

| CODE | ITEM | QUANTITY | UNIT |
|---|---|---|---|
| X8860105 | DETECTOR LOOP REPLACEMENT | 42 | FOOT |

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.
3. DETECTOR LOOP MUST BE RAN TO THE HANDHOLE BY MEANS OF A SAWCUT JOINT IN THE SURFACE WHEN PAST THE RESURFACING LIMIT.

TS #5965

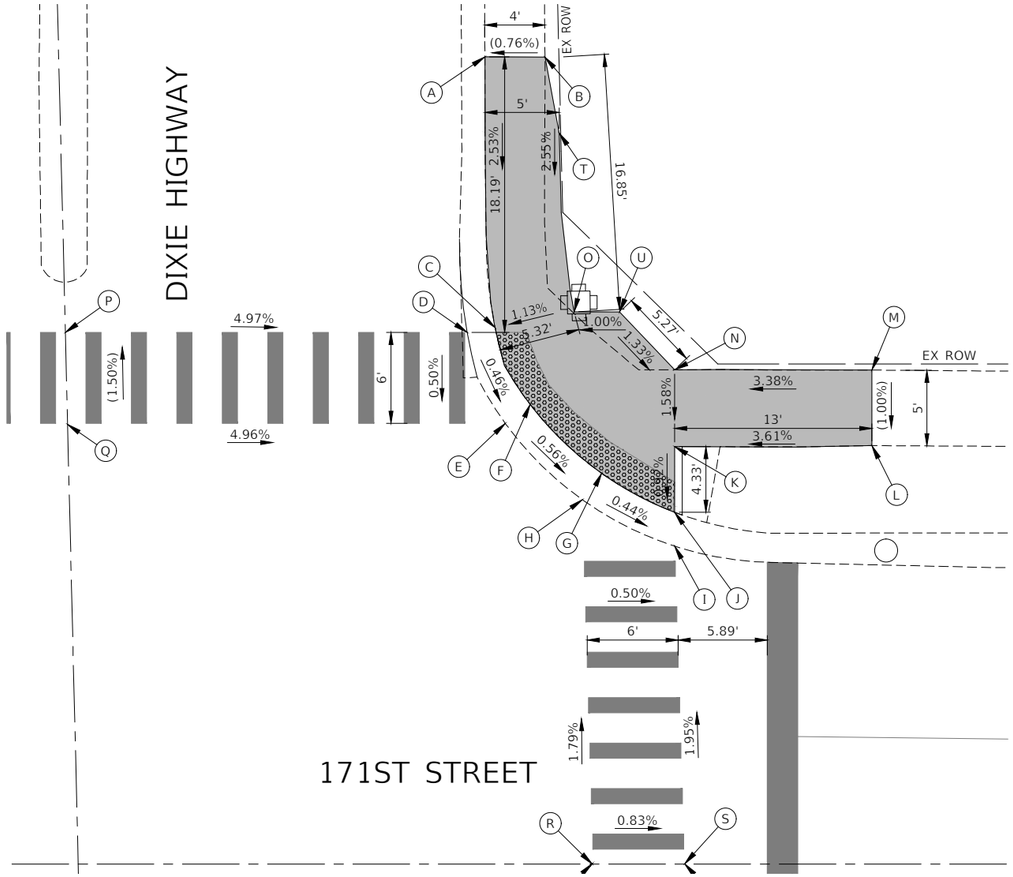
| | | | |
|---|---|---|---|
| FILE NAME = 24R0355-SGNL-LOOP-01 - WOOD | USER NAME = | DESIGNED — AL | REVISED — |
| | | CHECKED — WPD | REVISED — |
| | PLOT SCALE = | DRAWN — RG | REVISED — |
| | PLOT DATE = 12-15-24 | CHECKED — BG | REVISED — |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
171ST STREET AT WOOD STREET

SCALE: NONE | SHEET NO. 12 OF 23 SHEETS | STA. | TO STA.

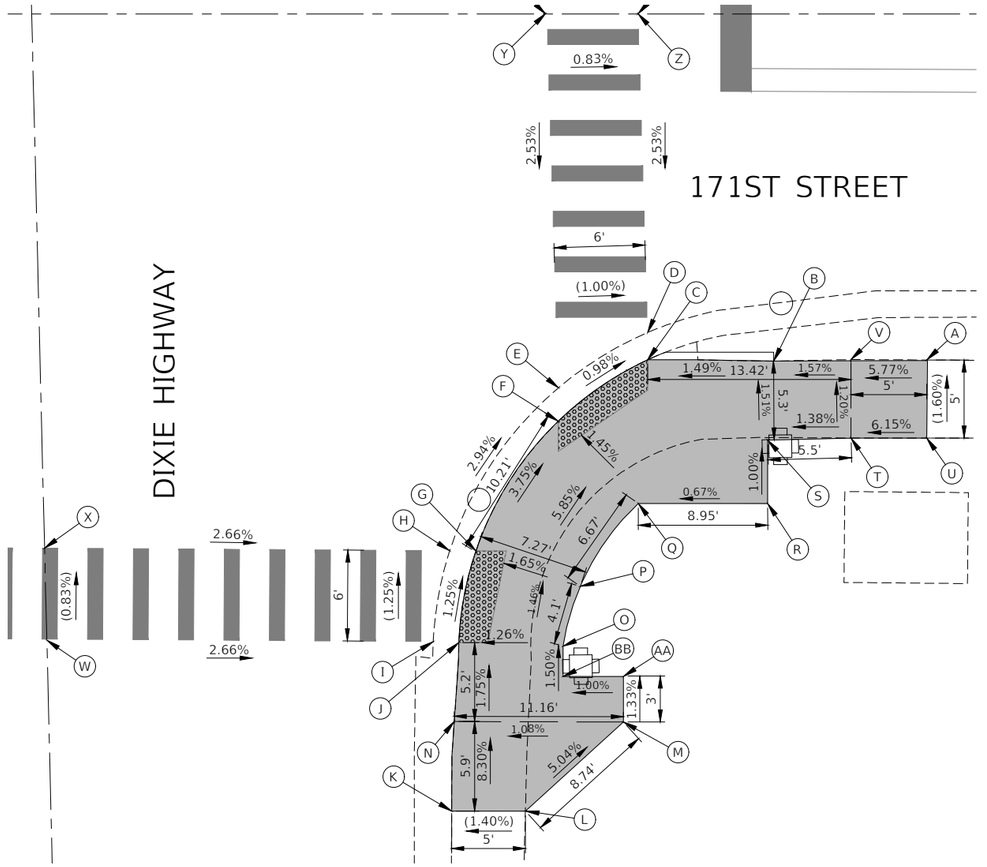
| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 12 |
| | | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




# FIGURE 1 NE CORNER

| | STATION | OFFSET | ELEVATION | DESCRIPTION |
|---|---|---|---|---|
| A | 11+26.86 | 47.10' LT | (619.10) | CW |
| B | 11+30.77 | 47.10' LT | (619.13) | CW |
| C | 11+27.54 | 35.34' LT | 618.64 | TC |
| D | 11+25.56 | 35.16' LT | 618.64 | EP |
| E | 11+28.30 | 28.92' LT | 618.61 | EP |
| F | 11+29.39 | 30.18' LT | 618.61 | TC |
| G | 11+34.71 | 25.64' LT | 618.57 | TC |
| H | 11+33.37 | 23.96' LT | 618.57 | EP |
| I | 11+39.29 | 21.00' LT | 618.54 | EP |
| J | 11+39.31 | 23.23' LT | 618.54 | TC |
| K | 11+39.36 | 27.57' LT | 618.58 | CW |
| L | 11+52.27 | 27.57' LT | (619.05) | CW |
| M | 11+52.27 | 32.57' LT | (619.10) | CW |
| N | 11+39.42 | 32.62' LT | 618.66 | CW |
| O | 11+32.98 | 35.86' LT | 618.70 | CW |

| | STATION | OFFSET | ELEVATION | DESCRIPTION |
|---|---|---|---|---|
| P | 10+99.18 | 35.10' LT | (619.96) | CL |
| Q | 10+99.18 | 29.03' LT | (620.05) | CL |
| R | 11+33.98 | 0.00' LT | 619.00 | CL |
| S | 11+39.98 | 0.00' LT | 618.95 | CL |
| T | 11+31.75 | 48.24' LT | 619.00 | CL |
| U | 11+36.62 | 34.66' LT | 618.73 | CW |




# FIGURE 2 SE CORNER

| | STATION | OFFSET | ELEVATION | DESCRIPTION |
|---|---|---|---|---|
| A | 11+59.13 | 22.83' RT | (619.38) | CW |
| B | 11+49.07 | 22.89' RT | 619.01 | CW |
| C | 11+39.16 | 23.58' RT | 618.89 | TC |
| D | 11+38.26 | 22.20' RT | 618.89 | EP |
| E | 11+32.21 | 27.19' RT | 618.96 | EP |
| F | 11+32.21 | 28.69' RT | 618.96 | TC |
| G | 11+29.06 | 35.77' RT | 619.34 | TC |
| H | 11+27.47 | 35.77' RT | 619.34 | EP |
| I | 11+26.48 | 41.83' RT | 619.42 | EP |
| J | 11+28.18 | 41.84' RT | 619.42 | TC |

| | STATION | OFFSET | ELEVATION | DESCRIPTION |
|---|---|---|---|---|
| K | 11+27.79 | 51.86' RT | (620.00) | CW |
| L | 11+32.61 | 51.89' RT | (620.07) | CW |
| M | 11+39.05 | 46.70' RT | 619.63 | CW |
| N | 11+27.89 | 46.63' RT | 619.51 | CW |
| O | 11+35.07 | 41.70' RT | 619.52 | CW |
| P | 11+35.96 | 37.68' RT | 619.46 | CW |
| Q | 11+40.05 | 32.30' RT | 619.07 | CW |
| R | 11+48.66 | 24.28' RT | 619.13 | CW |
| S | 11+48.66 | 28.28' RT | 619.09 | CW |
| T | 11+54.13 | 27.97' RT | 619.15 | CW |
| U | 11+59.13 | 27.97' RT | (619.46) | CW |
| V | 11+54.13 | 22.88' RT | 619.09 | CW |
| W | 11+01.01 | 41.49' RT | (620.10) | CL |
| X | 11+00.80 | 35.49' RT | (620.05) | CL |
| Y | 11+33.98 | 0.00' RT | 619.00 | CL |
| Z | 11+39.98 | 0.00' RT | 618.95 | CL |
| AA | 11+39.05 | 43.70' RT | 619.59 | CW |
| BB | 11+35.05 | 43.70' RT | 619.55 | CW |

## LEGEND

| | | | |
|---|---|---|---|
| (XXX.XX) | EXISTING SPOT ELEVATION | | PROPOSED SIDE CURB |
| XXX.XX | PROPOSED SPOT ELEVATION | | PROPOSED SIDEWALK |
| CW | CONCRETE WALK | | DETECTABLE WARNING |
| TC | TOP OF CURB | | |
| EP | EDGE OF PAVEMENT | | |

NOTE:

SEE PROPOSED IMPROVEMENT PLAN FOR EXISTING ROW.

| | | | |
|---|---|---|---|
| FILE NAME = 24R0355-ADA-01 - P01 | USER NAME = | DESIGNED — AL | REVISED — |
| | | CHECKED — WPD | REVISED — |
| | PLOT SCALE = | DRAWN — RG | REVISED — |
| | PLOT DATE = 12-15-24 | CHECKED — AG | REVISED — |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

171st STREET
ROADWAY RESURFACING
ADA RAMP DETAILS

SCALE: 1"=5' | SHEET NO. 13 OF 23 SHEETS | STA. | TO STA.

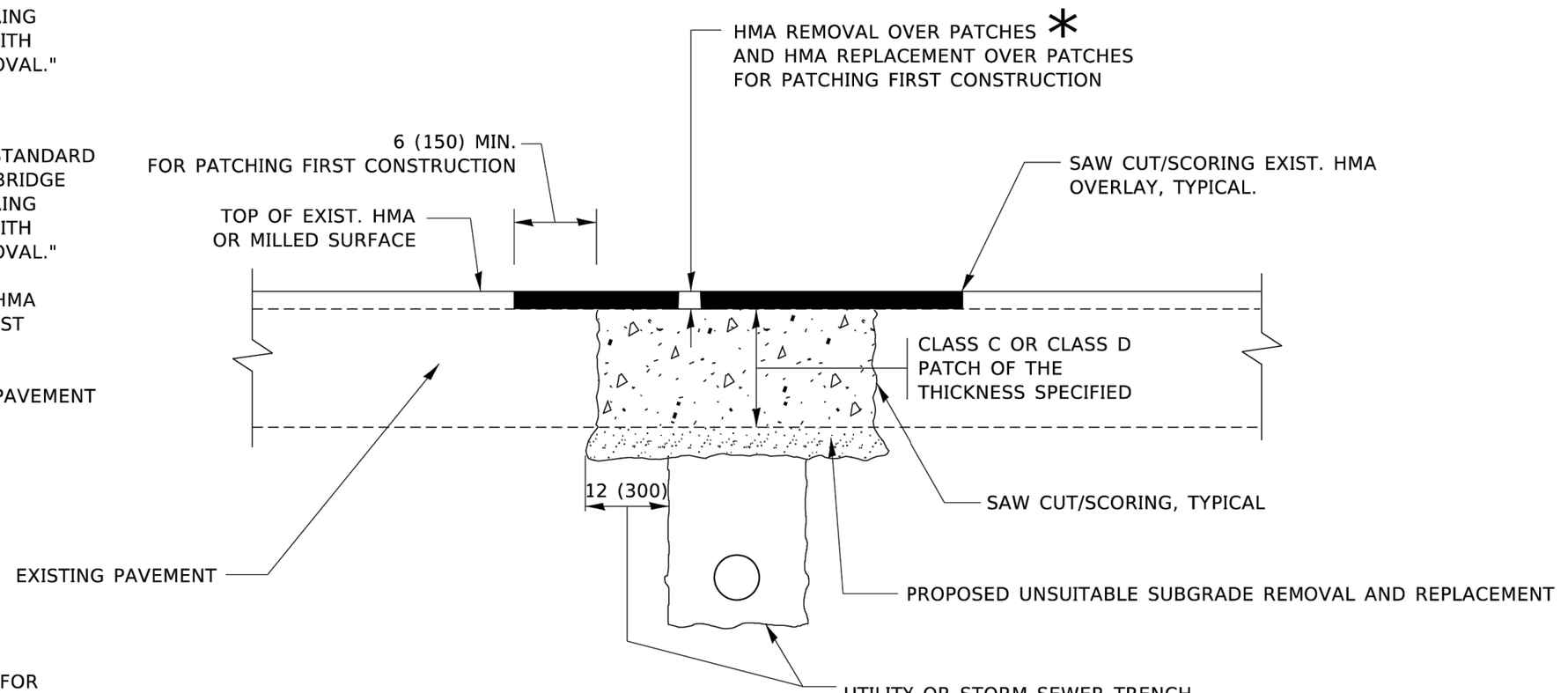
| F.A.1 RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 13 |
| | | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |

## METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

## BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.




* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

## 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 4½ 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.

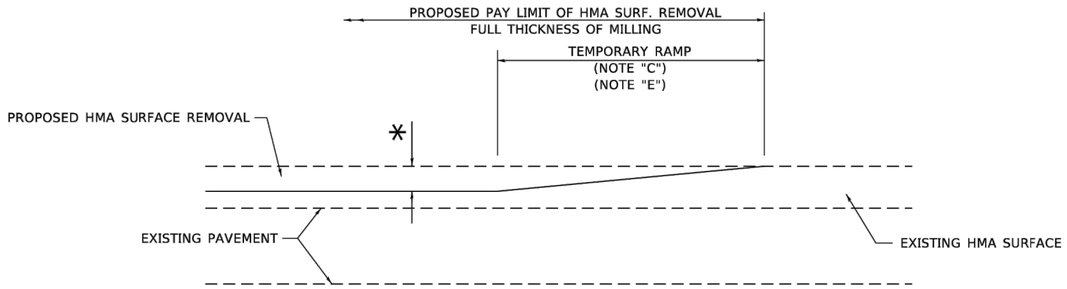
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| | | | |
|---|---|---|---|
| USER NAME = Lawrence.DeManche | DESIGNED - R. SHAH | REVISED - R. BORO 01-01-07 | **STATE OF ILLINOIS** |
| | DRAWN - | REVISED - R. BORO 09-04-07 | **DEPARTMENT OF TRANSPORTATION** |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - K. ENG 10-27-08 | |
| PLOT DATE = 11/18/2022 | DATE - 10-25-94 | REVISED - K. SMITH 11-18-22 | |

**PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

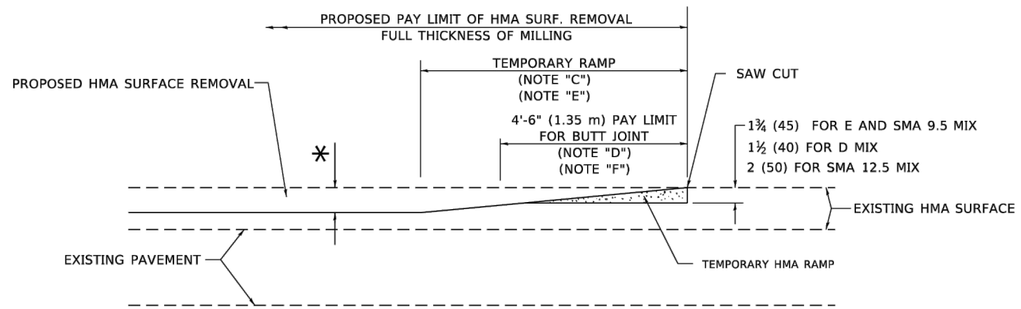
| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 14 |
| | **BD400-04 (BD-22)** | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

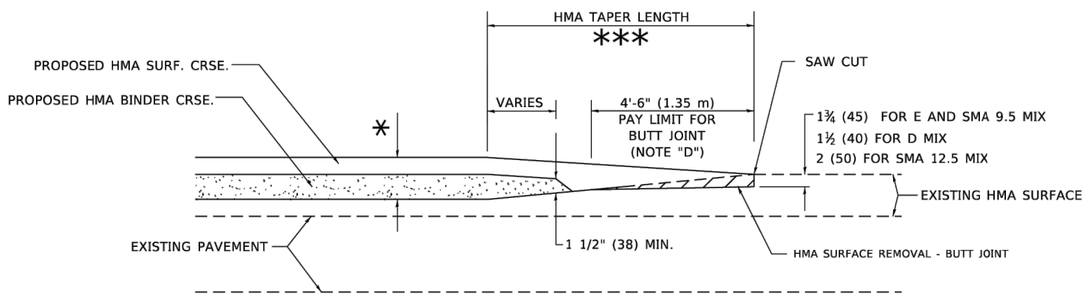



**HMA CONSTRUCTED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

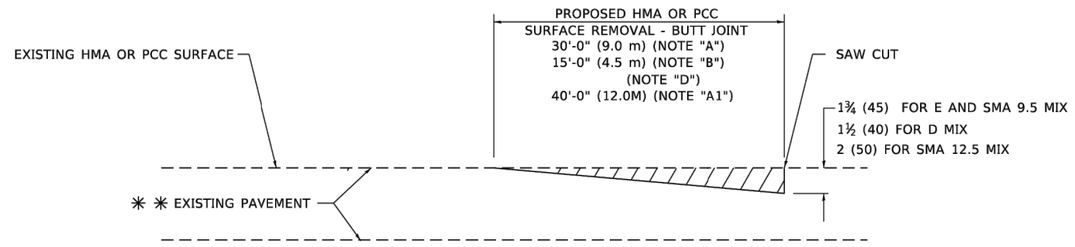
**OPTION 2**

# TYPICAL TEMPORARY RAMP

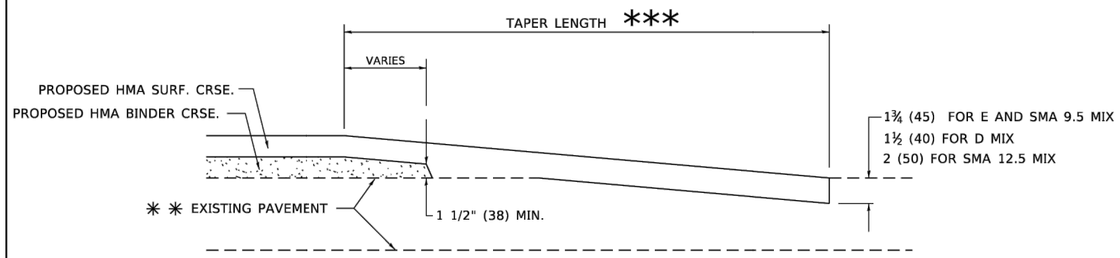



**BUTT JOINT AND HMA TAPER**

# 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.

## GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 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

1. 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".

2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

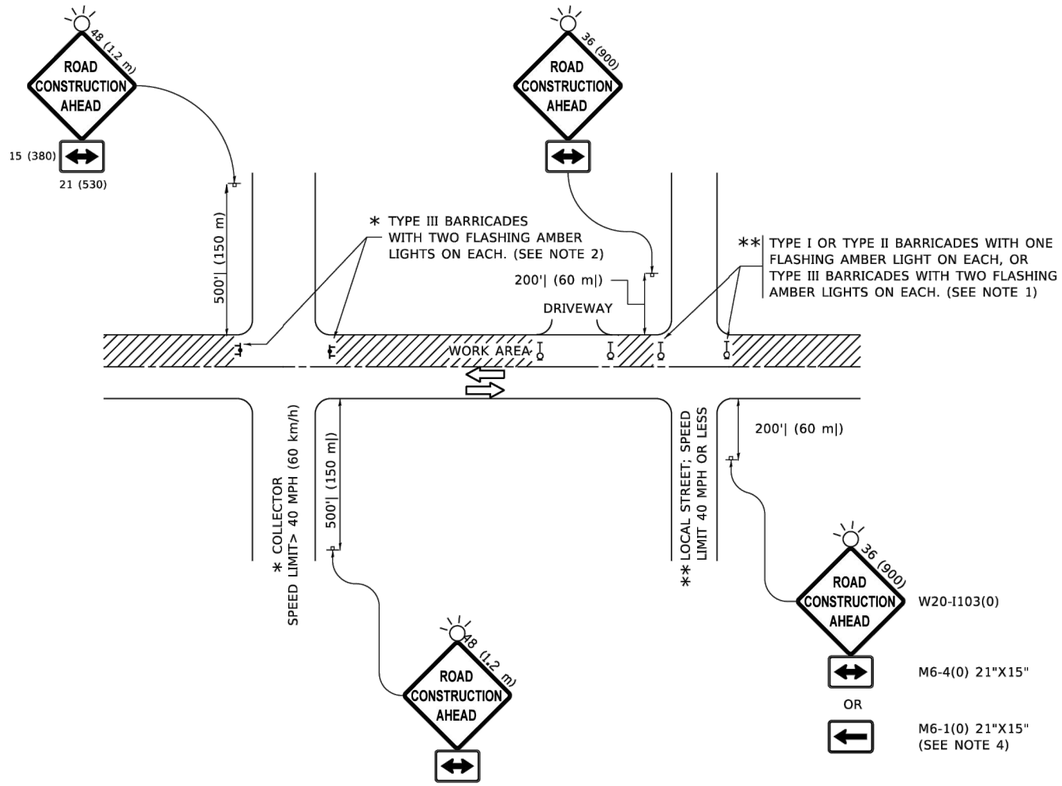
| | | |
|---|---|---|
| USER NAME = Lawrence.DeManche | DESIGNED - M. DE YONG | REVISED - A. ABBAS 03-21-97 |
| | DRAWN - | REVISED - M. GOMEZ 04-06-01 |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - R. BORO 01-01-07 |
| PLOT DATE = 11/18/2022 | DATE - 06-13-90 | REVISED - K. SMITH 11-18-22 |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND HMA TAPER DETAILS**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 15 |
| | BD400–05 BD–32 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




## NOTES:

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 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. 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.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

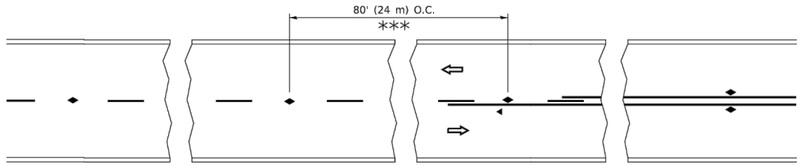
| | | |
|---|---|---|
| USER NAME = Lawrence.DeManche | DESIGNED - L.H.A. | REVISED - T. RAMMACHER 01-06-00 |
| | DRAWN - | REVISED - A. SCHUETZE 07-01-13 |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - A. SCHUETZE 09-15-16 |
| PLOT DATE = 5/3/2024 | DATE - 06-89 | REVISED - D. SENDERAK 05-03-24 |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

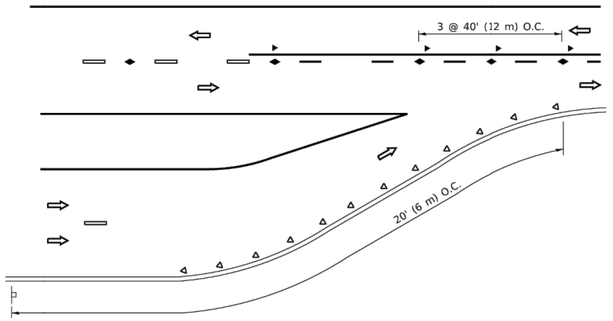
| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 16 |
| | **TC–10** | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |



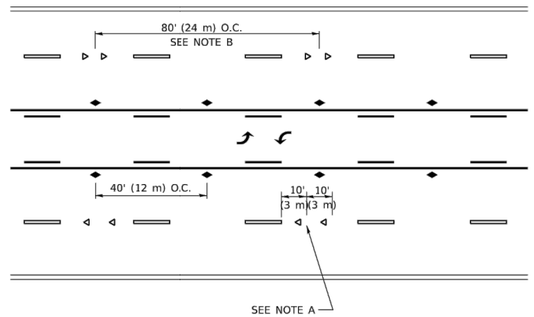

*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

## TWO–LANE/TWO–WAY

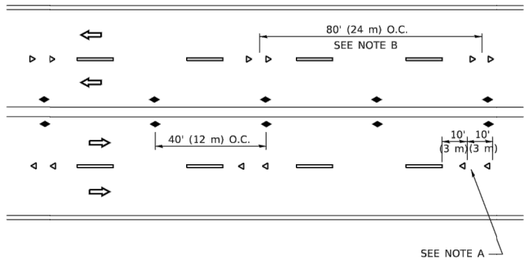
SEE FIGURE 3B-14 MUTCD



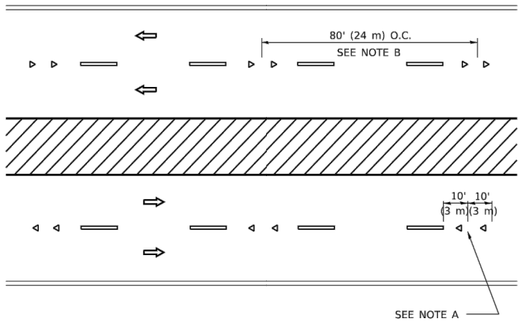

## LANE REDUCTION TRANSITION




## 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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

## SYMBOLS

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

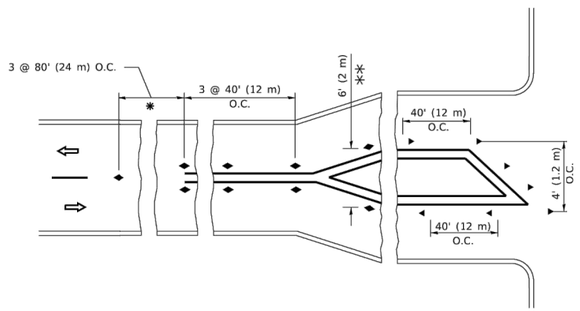
## LANE MARKER NOTES

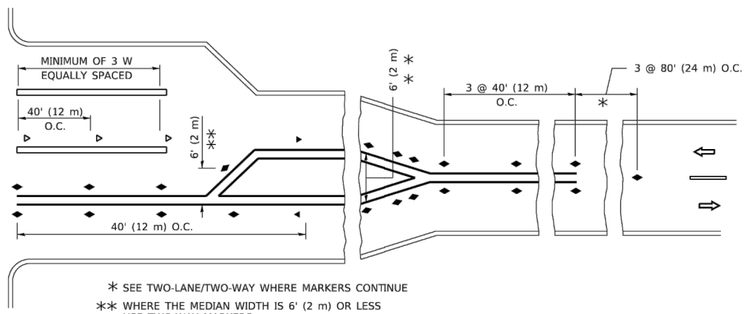
A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

## DESIGN NOTES

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




* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

## TURN LANES

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

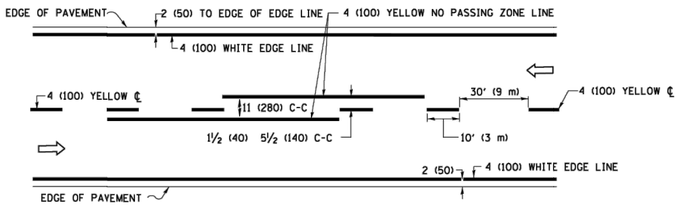
| | | | |
|---|---|---|---|
| USER NAME = footemj | DESIGNED - | REVISED - T. RAMMACHER 03-12-99 | |
| | DRAWN - | REVISED - T. RAMMACHER 01-06-00 | |
| PLOT SCALE = 50.0000 ' / in. | CHECKED - | REVISED - C. JUCIUS 09-09-09 | |
| PLOT DATE = 3/4/2019 | DATE - | REVISED - C. JUCIUS 07-01-13 | |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

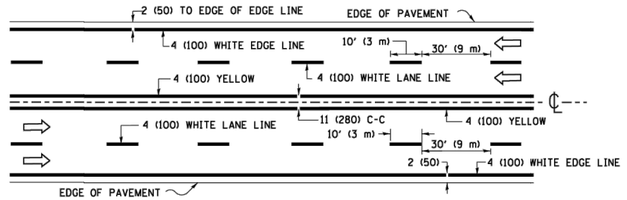
**TYPICAL APPLICATIONS**
**RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

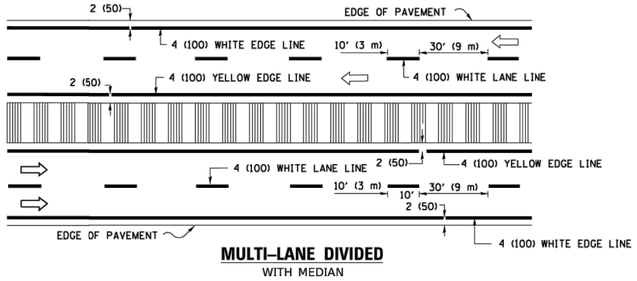
| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 17 |
| | TC-11 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




## 2–LANE ROADWAY

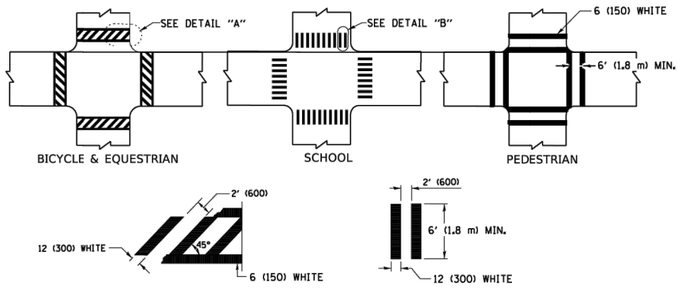



## MULTI–LANE UNDIVIDED




## MULTI–LANE DIVIDED
WITH MEDIAN

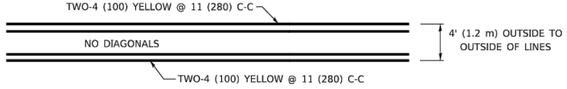
## TYPICAL LANE AND EDGE LINE MARKING



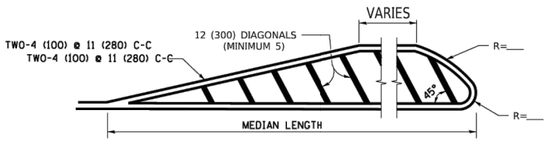

**DETAIL "A"** **DETAIL "B"**

## TYPICAL CROSSWALK MARKING

✱ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



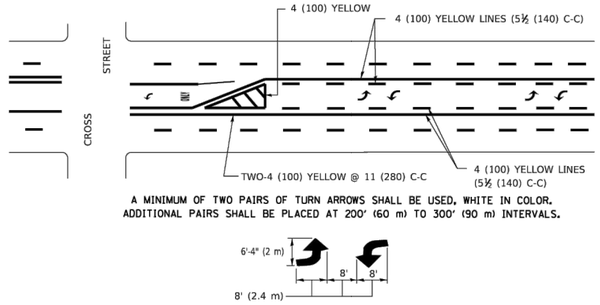

## 4' (1.2 m) WIDE MEDIANS ONLY




FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

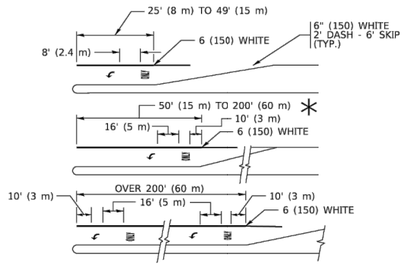



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.




## MEDIAN WITH TWO–WAY LEFT TURN LANE

## TYPICAL PAINTED MEDIAN MARKING

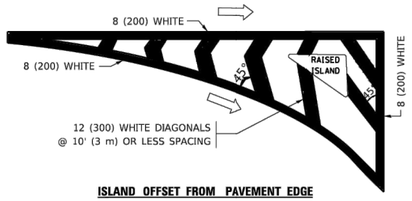



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

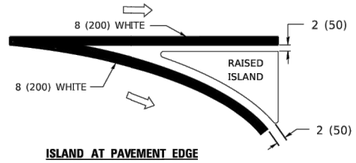
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

## TYPICAL LEFT (OR RIGHT) TURN LANE

## TYPICAL TURN LANE MARKING

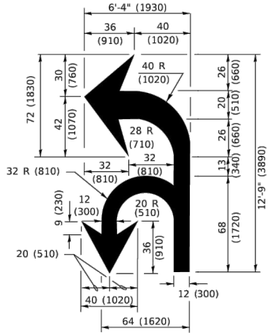



**ISLAND OFFSET FROM PAVEMENT EDGE**

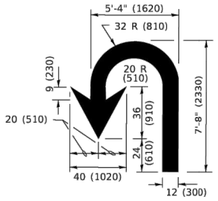



**ISLAND AT PAVEMENT EDGE**

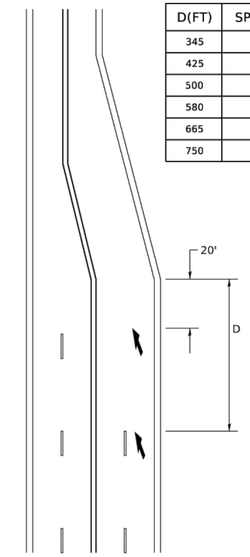
## TYPICAL ISLAND MARKING




## COMBINATION LEFT AND U–TURN




## U–TURN




| D(FT) | SPEED LIMIT |
|---|---|
| 345 | 30 |
| 425 | 35 |
| 500 | 40 |
| 580 | 45 |
| 665 | 50 |
| 750 | 55 |

## LANE REDUCTION TRANSITION

✱ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

| 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:<br>FOR ONE DIRECTION<br>FOR BOTH DIRECTIONS | 4 (100)<br>2 @ 4 (100) | SOLID<br>SOLID | YELLOW<br>YELLOW | 5½ (140) C-C FROM SKIP-DASH CENTERLINE<br>11 (280) C-C<br>OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100)<br>5 (125) ON FREEWAYS | SKIP-DASH<br>SKIP-DASH | WHITE<br>WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES<br>(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<br>WHITE-RIGHT | OUTLINE MEDIANS IN YELLOW |
| 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)<br>EACH DIRECTION<br><br>8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW<br><br>WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE<br>SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN)<br>A. DIAGONALS (BIKE & EQUESTRIAN)<br>B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150)<br>12 (300) @ 45°<br>12 (300) @ 90° | SOLID<br>SOLID<br>SOLID | WHITE<br>WHITE<br>WHITE | NOT LESS THAN 6' (1.8 m) APART<br>2' (600) APART<br>2' (600) APART<br>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°<br>NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW:<br>TWO WAY TRAFFIC<br>WHITE:<br>ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE<br>SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS:<br>15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h))<br>20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))<br>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<br>AREA OF:<br>"R"=3.6 SQ. FT. (0.33 m ² EACH<br>"X"=54.0 SQ. FT. (5.0 m ² |
| SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8' ) | 12 (300) @ 45° | SOLID | WHITE - RIGHT<br>YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))<br>75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))<br>150' (45 m) C-C (OVER 45MPH (70 km/h)) |
| U TURN ARROW | SEE DETAIL | SOLID | WHITE | 16.3 SF |
| 2 ARROW COMBINATION<br>LEFT AND U TURN | SEE DETAIL | SOLID | WHITE | 30.4 SF |

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.

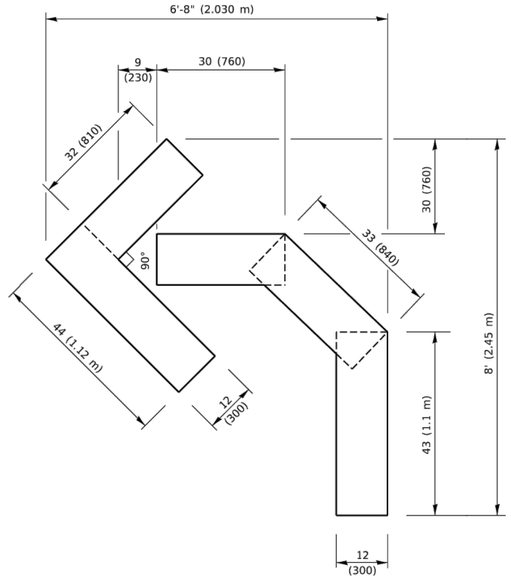
| | | |
|---|---|---|
| USER NAME = footemj | DESIGNED - EVERS | REVISED - C. JUCIUS 09-09-09 |
| | DRAWN - | REVISED - C. JUCIUS 07-01-13 |
| PLOT SCALE = 50.0000 ' / in. | CHECKED - | REVISED - C. JUCIUS 12-21-15 |
| PLOT DATE = 3/4/2019 | DATE - 03-19-90 | REVISED - C. JUCIUS 04-12-16 |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**
**TYPICAL PAVEMENT MARKINGS**

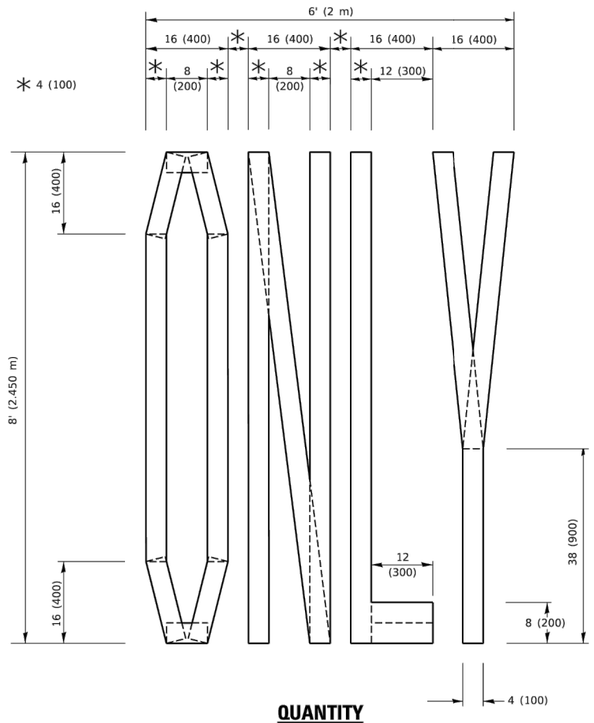
SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 18 |
| | TC–13 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |



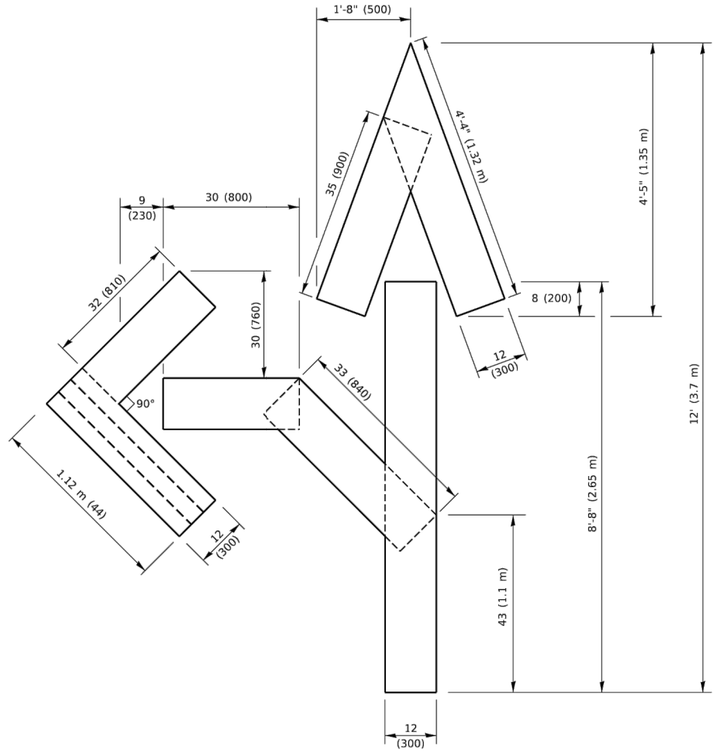

**QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)




**QUANTITY**

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

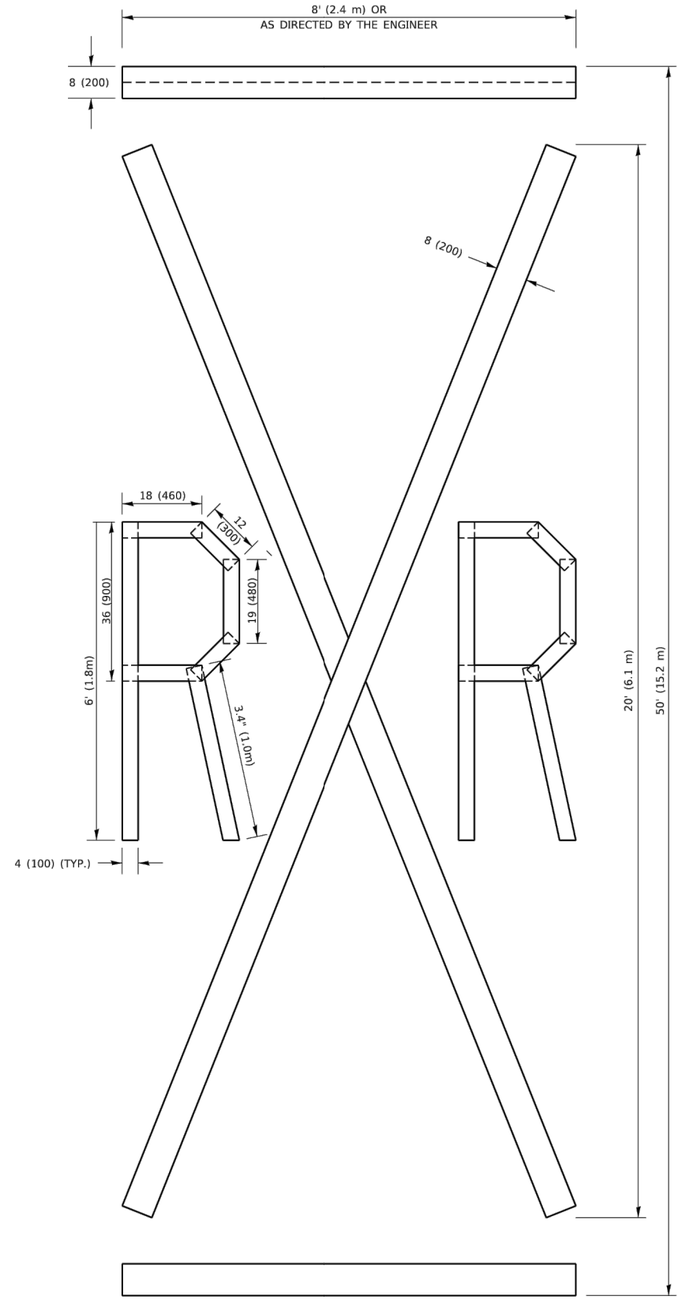



**QUANTITY**

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.




**QUANTITY**

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

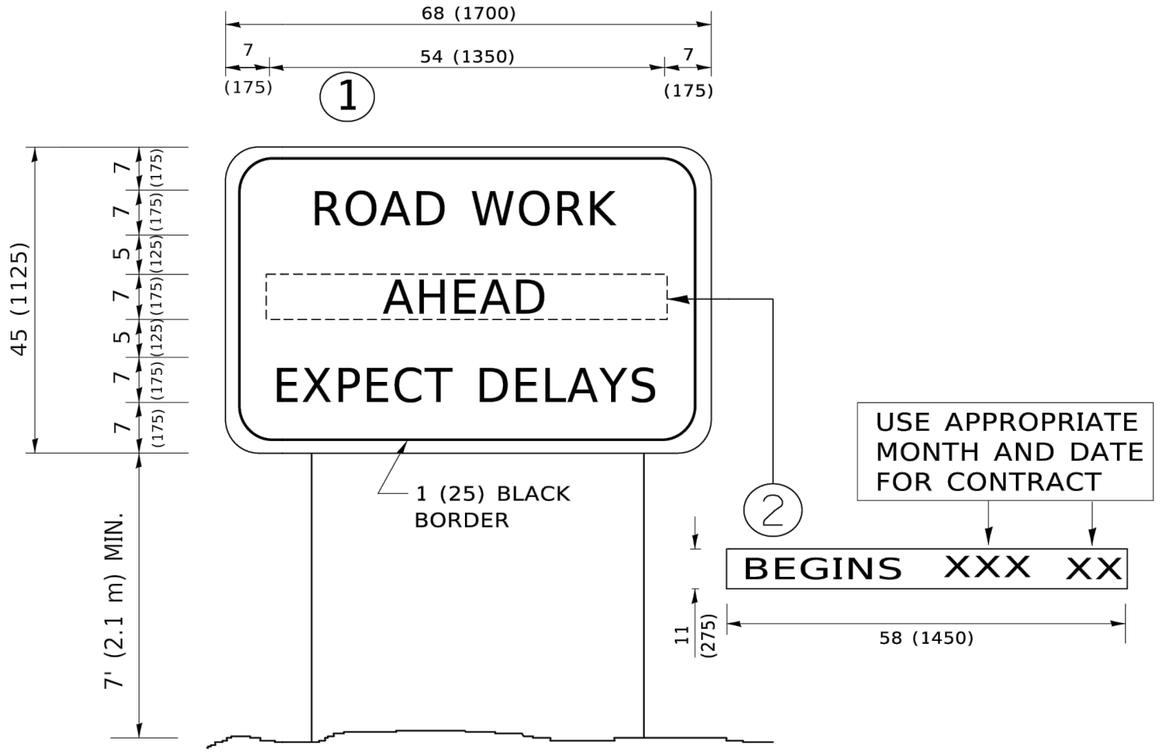
| | | |
|---|---|---|
| USER NAME = footemj | DESIGNED - | REVISED - T. RAMMACHER 03-02-98 |
| | DRAWN - | REVISED - E. GOMEZ 08-28-00 |
| PLOT SCALE = 50.0068 ' / in. | CHECKED - | REVISED - E. GOMEZ 08-28-00 |
| PLOT DATE = 3/4/2019 | DATE - 09-18-94 | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 19 |
| | TC-16 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




# 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.

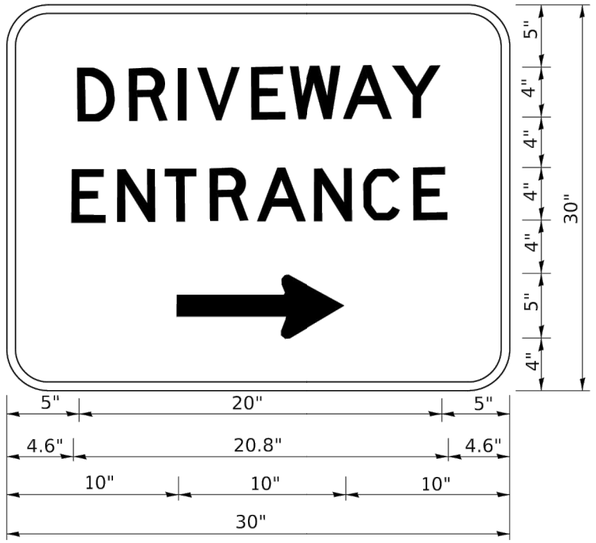
| | | |
|---|---|---|
| USER NAME = footemj | DESIGNED - | REVISED - R. MIRS 09-15-97 |
| | DRAWN - | REVISED - R. MIRS 12-11-97 |
| PLOT SCALE = 50.0000 ' / in. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| PLOT DATE = 3/4/2019 | DATE - | REVISED - C. JUCIUS 01-31-07 |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD INFORMATION SIGN**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 20 |
| | TC-22 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |




3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

| | | |
|---|---|---|
| USER NAME = leysa | DESIGNED - | REVISED - C. JUCIUS 02-15-07 |
| | DRAWN - | REVISED - |
| PLOT SCALE = 50.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/6/2021 | DATE - | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 21 |
| | TC–26 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |

## LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

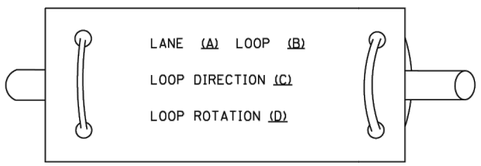
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

## LOOP LEAD-IN CABLE TAG

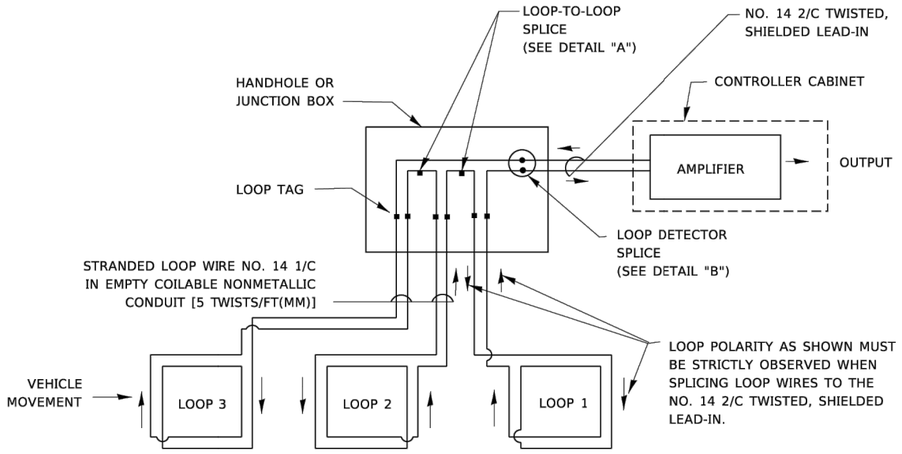



A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

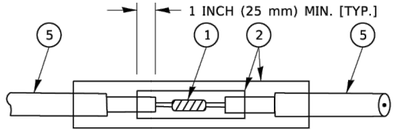
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

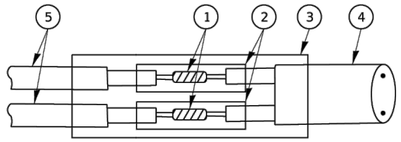



## DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

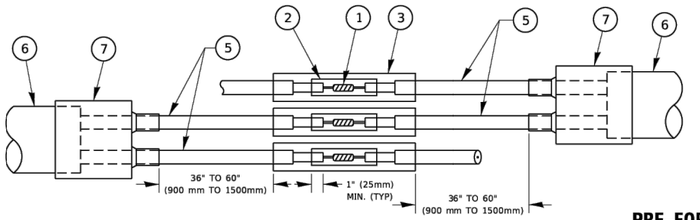



DETAIL "A"
LOOP-TO-LOOP SPLICE



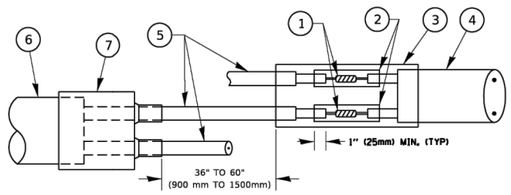

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

## TYPE I LOOP




DETAIL "A"
LOOP-TO-LOOP SPLICE

## PRE-FORMED LOOP




DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

## LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP

(6) XL POLYOLEFIN 2 CONDUCTOR

(7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

| | | |
|---|---|---|
| USER NAME = footemj | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 50.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 3/4/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

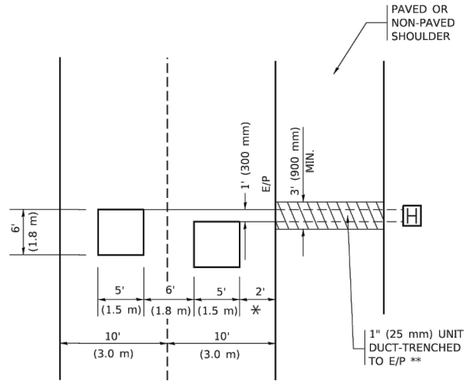
**DISTRICT ONE**
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 22 |
| | TS-05 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |

## LOOPS NEXT TO SHOULDERS

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



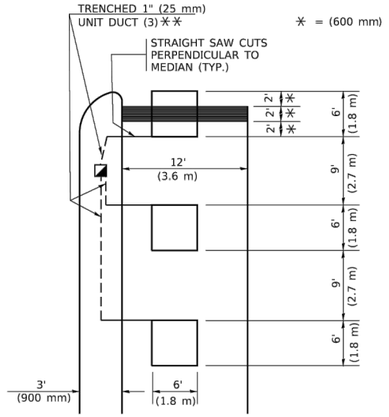

* = (600 mm)

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

## LEFT TURN LANES WITH MEDIANS

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

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



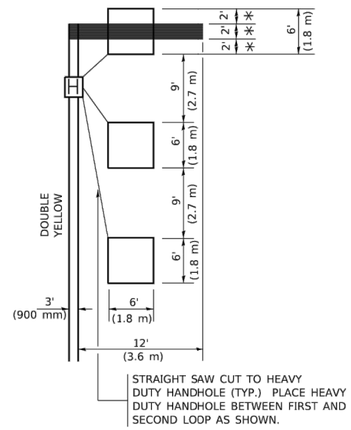

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

## LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY (''FAR OUT'' DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)




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

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 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.

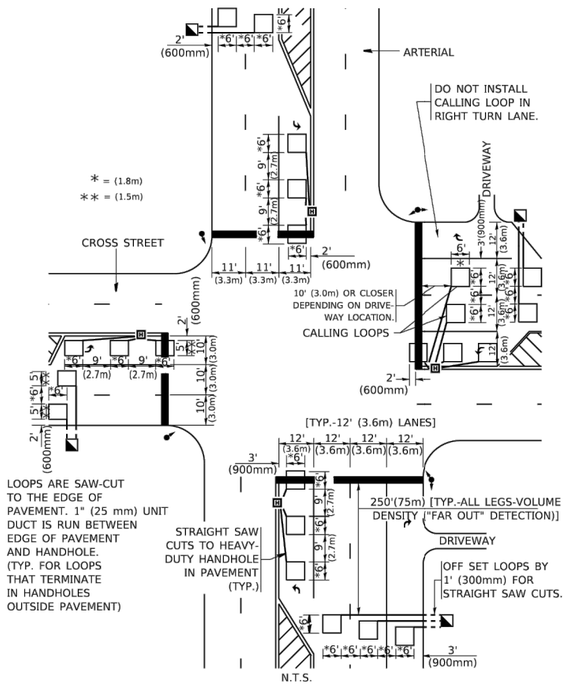
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

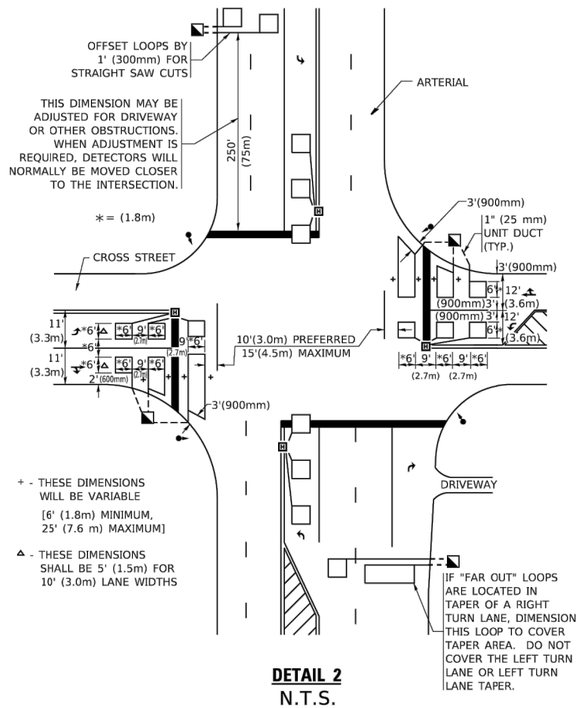
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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

| | | | |
|---|---|---|---|
| USER NAME = footemj | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 50.0000 ' / in. | CHECKED - R.K.F. | REVISED - | |
| PLOT DATE = 3/4/2019 | DATE - | REVISED - | |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.U RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0084 | 24-00096-00-RS | COOK | 23 | 23 |
| | TS–07 | CONTRACT NO. 61L01 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 1CWT(209) | | |