FOR INDEX OF SHEETS, SEE SHEET NO. 2.

TRAFFIC DATA

0

 $\bigcirc$ 

0

 $\circ$ 

ADT = 187,000 VEHICLESPOSTED SPEED LIMIT = 55 MPH

PROJECT LOCATED IN THE VILLAGE OF OAK PARK, VILLAGE OF FOREST PARK. VILLAGE OF MAYWOOD. VILLAGE OF BROADVIEW. VILLAGE OF WESTCHESTER, VILLAGE OF BELLWOOD AND VILLAGE OF HILLSIDE

#### STRUCTURE LOCATIONS

I-290 EB OVER I-88

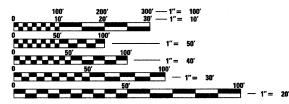
I-290 C-D RAMP OVER HILLSIDE DR SN 016-2759

I-290 C-D RAMP OVER WOLF RD SN 016-2758

I-290 OVER WOLF RD

I-290 OVER ADDISON CREEK SN 016-0088

I-290 OVER DES PLAINES RIVER



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: CRAIG BAUER (847) 705-4265 PROJECT MANAGER: LONG TRAN (847) 705-4232

**CONTRACT NO. 60G52** 

## STATE OF ILLINOIS

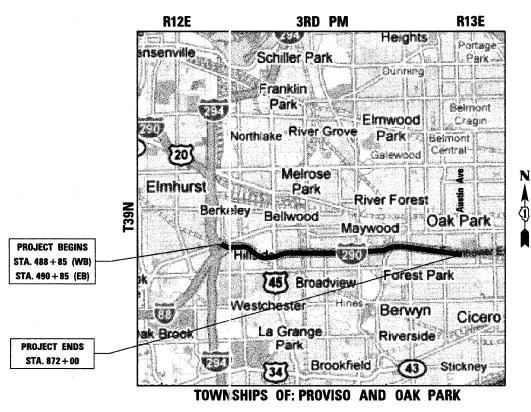
### DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

NOTE: WHEREVER IN THESE PLANS REFERENCE IS MADE TO "TOTAL SHEETS-298 IT SHALL MEAN 413

# **PROPOSED** HIGHWAY PLANS

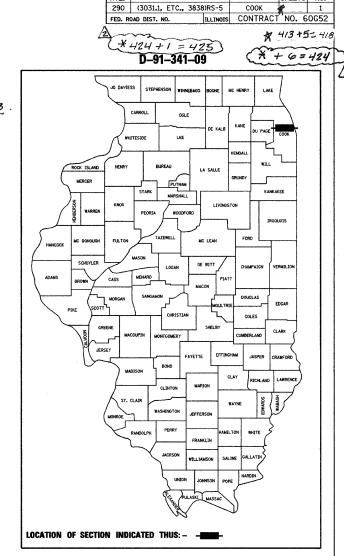
FAI-290 (EISENHOWER EXPRESSWAY) **SECTION** (3031.1, ETC., 3838)RS-5 PROJECT: ACIM-290-4(114)084 I-88 TO AUSTIN AVE. RESURFACING AND ROADWAY AND STRUCTURE REPAIRS **COOK COUNTY** C-91-493-09



LAYOUT MAP SCALE: 1 IN = 1.5 MI

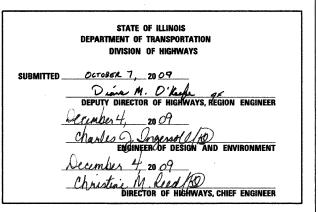
GROSS LENGTH OF PROJECT = 38,315 LIN FT = 7.26 MILES NET LENGTH OF PROJECT = 38,315 LIN FT = 7.26 MILES





SECTION

COUNTY



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#### **INDEX OF SHEETS**

SHEET NO.

DESCRIPTION

2 3-5

COVER SHEET INDEX OF SHEETS, STANDARDS, GENERAL NOTES

& HMA REQUIREMENTS SUMMARY OF QUANTITIES € 6-24 ★ 25-27 △ 28-63 TYPICAL SECTIONS
SCHEDULES OF QUANTITIES

ALIGNMENTS 64-94 \* 95-190 A MAINTENANCE OF TRAFFIC 191-221 PAVEMENT MARKING PLANS STRUCTURAL PLANS

₹222-250 251 252-267 ROADWAY WEATHER INFORMATION SYSTEM SENSOR TRAFFIC SURVEILLANCE LOOPS PLANS 268-283 TRAFFIC SYSTEM CENTER DETAILS DISTRICT 1 DETAILS 284-298 SIGNING SCHEDULES OF QUANTITIES 299-302 303-328 SIGNING PLANS

329-405 SIGNING DETAILS DISTRICT 1 SIGNING DETAILS 406-413

(\* ADDED 274.,278. EX ADDED 251A. - 2510 PUMP STATION DRAWINGS \* Added 96A.

#### **GENERAL NOTES:**

- 1. BEFORE STARTING WORK THE CONTRACTOR SHALL CALL DIGGER AT (312) 774-7000 FOR WORK WITHIN THE CHICAGO CITY LIMITS OR JULIE AT 811 OR (800) 892-0123 FOR WORK OUTSIDE CHICAGO CITY LIMITS FOR FIELD LOCATIONS OF BURIED UTILITIES. 72 HOUR ADVANCE NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AS REQUIRED.
- 3. THE CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH ADJACENT IDOT CONTRACTS 60157 AND 60G53. ILLINOIS STATE TOLL HIGHWAY AUTHORITY CONTRACT-1-294 FROM I-88 TO NORTH AVENUE, AND VALVE MAINTENANCE CONTRACT FOR BROADVIEW-WESTCHESTER JOINT WATER AGENCY (BWJWA) AT EB I-290, 100 FEET EAST OF DES PLAINES RIVER.
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT
- 5. VERTICAL CLEARANCES OF BRIDGES OVER I-290 SHALL BE MAINTAINED. HMA SURFACE REMOVAL AND PROPOSED HMA SURFACE THICKNESS WILL BE VARIED AS DIRECTED BY THE ENGINEER IF THE EXISTING BITUMINOUS DEPTH IS LESS THAN 2". THE CONTRACTOR SHALL VERIFY AL: BRIDGE CLEARANCES BEFORE AND AFTER CONSTRUCTION AND FURNISH RESULTS TO THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR CONSTRUCTION LAYOUT.
- 6. WHERE ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 7, PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, AND SHOULDER RECONSTRUCTION LIMITS ARE NOT SHOWN ON THE PLANS. LIMITS OF THIS WORK WILL BE DETERMINED BY THE ENGINEER.
- 8. BUTT JOINTS WILL BE INSTALLED AT THE END OF ALL RESURFACING SECTIONS TO MATCH EXISTING PAVEMENT. SEE DISTRICT DETAIL BD400-05 - BUTT JOINT AND HMA TAPER DETAILS FOR ALL PCC AND HMA BUTT JOINTS.
- 9, CONTACT EXPRESSWAY OPERATIONS AT (847) 705-4151 TWO WEEKS BEFORE INSTALLING FINAL PAVEMENT
- 10. THE CONTRACTOR SHALL SWEEP AND CLEAN THE PAVEMENT SURFACE, PER ARTICLE 107.15 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

- 11. TEMPORARY EDGE LINES SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC SHALL BE INSTALLED WITHIN 24 HOURS OF MILLING OR BINDER PLACEMENT.
- 12. THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WAS DEVELOPED FROM PREVIOUS PLANIMETRICS AND AERIAL PHOTOGRAPHY FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS. ALL ALIGNMENTS ARE BASELINES.
- 13. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- 14. DRAINAGE ADJUSTMENT, CLEANING OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE
- 15. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 16. VERTICAL BARRICADES WILL REMAIN IN PLACE ALONG THE EDGES OF PAVEMENT AS SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS UNTIL THE SURFACE COURSE AND PROPOSED PAVEMENT MARKING EDGE LINES
- 17. DISPOSAL OF THE SHOULDER CUTTING AND CLEAN SWEEPING OF THE SHOULDERS SHALL BE COMPLETED PRIOR TO THE OPENING OF THE SHOULDERS AND TRAFFIC. DISPOSAL AND SWEEPING SHALL BE INCLUDED IN THE COST OF "SHOULDER RUMBLE STRIPS".
- 18. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH REVISED TRAFFIC PATTERNS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL.

#### **IDOT STANDARDS**

STANDARD NO. DESCRIPTION

000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 420001-07 PAVEMENT JOINTS 442001-04 CLASS A PATCHES CLASS C AND D PATCHES 442201-03 515001-03

NAME PLATE FOR BRIDGES REFLECTOR AND TERMINAL MARKER PLACEMENT 635006-03 REFLECTOR MARKER AND MOUNTING DETAILS 635011-02 642001-01 SHOULDER RUMBLE STRIPS OFF-ROAD OPERATIONS, MULTILANE, 4.5m (15') TO 701101-02

600mm (24") FROM PAVEMENT EDGE 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY 701400-04 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY

701401-05 LANE CLOSURE, FREEWAY/EXPRESSWAY LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT 701406-05 701411-06 RAMP, FOR SPEEDS ≥ 45 MPH

701421-02 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS  $\geq$  45 MPH TO 55 MPH LANE CLOSURE, MULTILANE, FOR SPEEDS  $\geq$  45 MPH TO 55 MPH

701422-02 LANE CLOSURE, MULTILANE, INTERMITTENT 701426-03 OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH

701446-01 TWO LANE CLOSURE FREEWAY/EXPRESSWAY 701901-01 TRAFFIC CONTROL DEVICES TEMPORARY CONCRETE BARRIER 704001-06 720001-01 SIGN PANEL MOUNTING DETAILS

720006-02 SIGN PANEL ERECTION DETAILS METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS 720011-01 720021-02 SIGN PANEL EXTRUDED ALUMINUM TYPE

780001-02 TYPICAL PAVEMENT MARKINGS 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE

PAVEMENT MARKERS

#### **DISTRICT 1 DETAILS**

DETAIL DESCRIPTION

BD600-03 (BD-8) DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING BD400-04 (BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT BD400-05 (BD-32) BUTT JOINT AND HMA TAPER DETAILS BD400-06 (BD-33) HMA TAPER AT EDGE OF P.C.C. PAVEMENT BF-600 ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE BE-601 ELECTRIC CONNECTION TO SIGN STRUCTURE CANTILEVER TYPE BM-21

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL TC-8 FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS TC-9 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS TC-12 TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

TC-18 STONING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS. TC-25 TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE TC-27 MILE POST MARKERS-GORE SIGNS-MAJOR GUIDE SIGN LAYOUT-ARROWS HOT-MIX ASPHALT REQUIREMENTS

UNI-MIN ASTRALI REQUIREMENTS		
MIXTURE TYPE	THICKNESS	VOIDS
MAINLINE RESURFACING POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% @ 80 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% @ 80 Gyr
MAINLINE INSIDE SHOULDERS < 8' POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% <b>€</b> 80 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% @ 80 Gyr
MAINLINE OUTSIDE SHOULDERS AND INSIDE SHOULDERS > 8' HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	1-1/2"	4% <b>e</b> 70 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N70	2-1/4"	4% @ 70 Gyr
RAMPS AND SHOULDER RESURFACING HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N70	1 1/2" 2-1/4"	4% @ 70 Gyr 4% @ 70 Gyr
IL RTE 38 (ROOSEVELT ROAD) RAMPS POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	1-3/4" 2-1/4"	4% @ 90 Gyr
PATCHING CLASS D PATCHES OF TYPE AND THICKNESS SPECIFIED (HMA BINDER IL-25mm) HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-25mm)	10" 3 1/4" OR 4"	4% @ 105 Gyr
SHOULDER RECONSTRUCTION	3 1/4" UR 4"	4% @ 105 Gyr
HOT-MIX ASPHALT SHOULDER, 10" (HMA BINDER IL-19mm)	10"	4% <b>@</b> 70 Gyr
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	1-1/2"	4% € 70 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	2-1/4"	4% @ 70 Gyr
STABILIZED SUBBASE HOT-MIX ASPHALT, 4"	4"	2% a 30 Gyr

UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SMA SURFACE COURSE IS 135 LBS/SQ YD/IN. UNITS WEIGHT USED TO CALCULATE ALL OTHER HOT-MIX ASPHALT MIXTURES IS 112 LBS/SQ YD/IN.

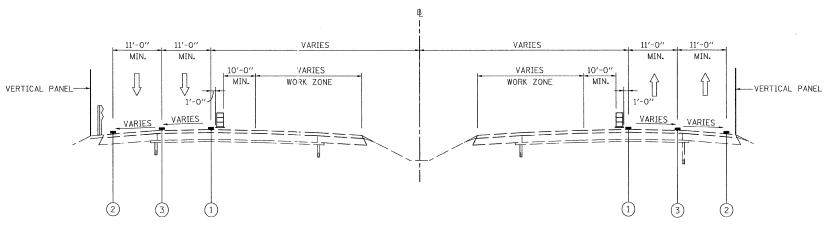
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. A Rev. 1-10-10 FOR " PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS. A ROV 1-4-10

FILE NAME =	DESIGNED	-	AJP	REVISED	-			
\$FILEL\$	DRAWN	-	TMB	REVISED	-			
USER NAME = \$USER\$	CHECKED	-	JMM	REVISED	-			
PLOT DATE = \$DATE\$	DATE	-	12/15/09	REVISED	-			

benesch

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		quina)	Der.	7-80	
INDEX OF SHEETS, STANDARDS,	F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
GENERAL NOTES & HMA REQUIREMENTS	290	(3031.1, ETC., 3838)RS-5	COOK	298	2
			CONTRACT	T NO. 60	0G52
SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	DAD DIST. NO.   ILLINOIS FED. A	D PROJECT		



#### I-290 MAINTENANCE OF TRAFFIC

## TYPICAL SECTION SHOULDER STAGING OPTION

(INSIDE SHOULDER STAGING SIMILAR - OPPOSITE HAND)

CONTRACTOR OPTION FOR STAGING ON SHOULDERS

LIGHTS PLACED AT 100 FEET CENTER-CENTER.

AS AN ALTERNATIVE TO THE MAINTENANCE OF TRAFFIC SHOWN IN THE PLANS, THE CONTRACTOR HAS THE OPTION TO SHIFT TRAFFIC ONTO THE EXISTING SHOULDERS AT LOCATIONS WHERE THE SHOULDERS ARE A MINIMUM OF 10 FEET WIDE. ON THE CLOSED LANE ADJACENT TO LIVE TRAFFIC, THE CONTRACTOR SHALL MAINTAIN A 10 FOOT MINIMUM ROADWAY WIDTH WITHIN THE CLOSED LANE. THE CONTRACTOR SHALL NOT PLACE EQUIPMENT OR STORE MATERIALS WITHIN THE CLOSED LANE. ALL TRAFFIC LANES SHALL BE AT LEAST 11 FEET WIDE AND BE DELINEATED FROM THE WORK ZONE BY TYPE II BARRICADES OR DRUMS WITH STEADY BURNING MONODIRECTIONAL

ALL PATCHING, DRAINAGE STRUCTURE FRAME AND GRATE REPAIRS AND/OR ADJUSTMENTS, OR TEMPORARY PAVEMENT, REQUIRED ALONG THE SHOULDERS AND GORES IN PREPARATION TO SHIFT TRAFFIC WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. ALL ADDITIONAL TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT

MARKINGS, SIGNING (TEMPORARY AND EXISTING OVERHEAD) AND INCIDENTAL COSTS ASSOCIATED WITH IMPLEMENTING THE SHOULDER STAGING OPTION SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT PLANS OF THE SHOULDER STAGING OPTION TO THE ENGINEER FOR APPROVAL AT LEAST 2 WEEKS PRIOR TO SHIFTING TRAFFIC INTO THE STAGED CONFIGURATION. THE PLANS SHALL INCLUDE LANE CONFIGURATIONS, WORK ZONES, TRAFFIC CONTROL DEVICES, SIGNING (TEMPORARY

AND EXISTING OVERHEAD) AND TEMPORARY PAVEMENT MARKINGS.

#### LEGEND

- (1) WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH (YELLOW)
- WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH (WHITE)
- WET REFLECTIVE TEMPORARY TAPE, TYPE III, 5 INCH (WHITE)
- TYPE II BARRIER, DRUM, OR VERTICAL
  BARRICADE WITH STEADY BURN
  MONODIRECTIONAL LIGHT

#### POSSIBLE 10' MINIMUM SHOULDER LOCATIONS (TO BE FIELD VERIFIED)

LOCATIONS:	EAST	BOUND	WESTBOUND		
LOCATIONS:	INSIDE SHOULDER	OUTSIDE SHOULDER	INSIDE SHOULDER	OUTSIDE SHOULDER	
488+85/490+85 to 507+00	x	x	X	x	
507+00 to 510+00	X	x	Х		
510+00 to 523+00	X	x	X	x	
523+00 to 526+00	x	х	Х		
526+00 to 577+00	x	х	Х	X	
577+00 to 582+00	x	X	X		
582+00 to 608+00	х	x	x	x	
608+00 to 705+00	x	х		x	
705+00 to 735+00		х		×	
735+00 to 738+00	x	x		x	
738+00 to 744+00	x	х			
744+00 to 760+00	x	х		х	
760+00 to 772+00	x	x	х	X	
772+00 to 775+00	x	х		х	
775+00 to 785+00		х		х	
785+00 to 790+00	X	х		x	
790+00 to 805+00	x	х	Х	х	
805+00 to 811+00	х	х		х	
811+00 to 815+00	х	х		x	
815+00 to 843+00	x	х	Х	x	
843+00 to 849+00	X	x		x	
849+00 to 854+00		х	Х	x	
854+00 to 860+00	x	х		х	
860+00 to 865+00		х		х	
865+00 to 872+00	x	x	X	×	

#### ADDED SHEET 1/7/2010, ABC

FILE NAME =	DESIGNED ~ AJP	REVISED - 2 1/7/10	benesch		MAINTENANCE OF TRAFFIC	F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
\$FILEL\$	DRAWN - TMB	REVISED -		STATE OF ILLINOIS	TYPICAL SECTION — SHOULDER STAGING OPTION	290 (3031.1, ETC., 3838)RS-5	соок 298 96А
USER NAME = \$USER\$	CHECKED - JUT	REVISED -	OGIIGOCII	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60G52
PLOT DATE = \$DATE\$	DATE - 10/16/09	REVISED -	1		SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED.	ID PROJECT