

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D3 INTERMITTENT RS 2011-2	KANKAKEE	6	1
		ILLINOIS	CONTRACT NO. 66A49	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 57 (I-57)
SECTION D3 INTERMITTENT RS 2011-2
PROJECT ACIM-057-6 (189) 305
INTERMITTENT RESURFACING
KANKAKEE COUNTY

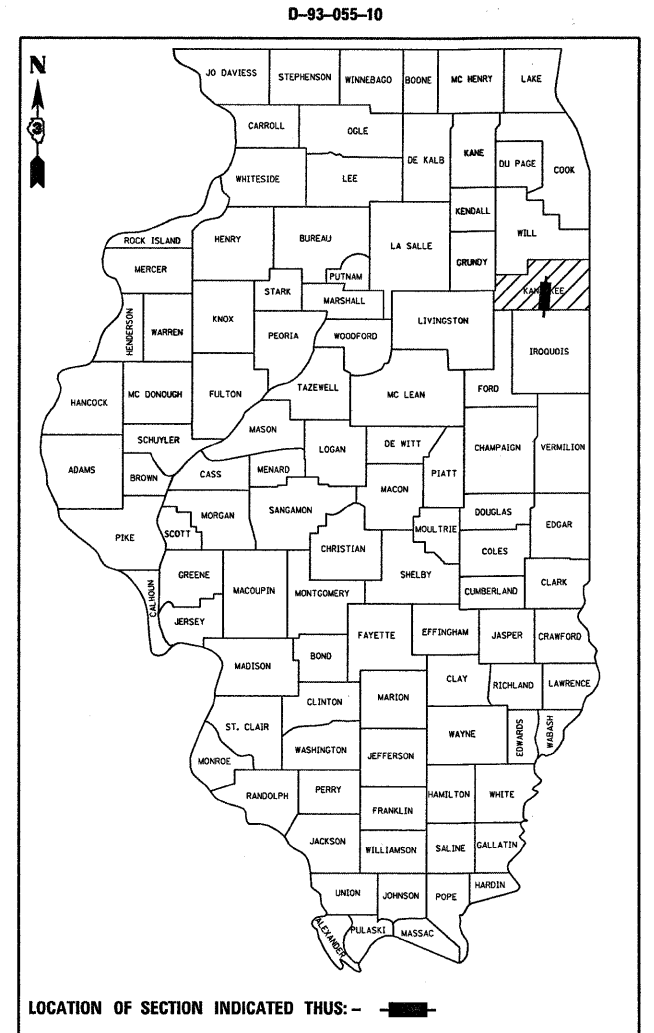
C-93-136-10

INDEX OF SHEETS

- 1 COVER SHEET & STANDARDS
- 2 GENERAL NOTES & SUMMARY OF QUANTITIES
- 3 TYPICAL SECTION
- 4 SCHEDULE OF QUANTITIES
- 5-6 DETAILS

STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701400-04 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-05 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701426-03 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS \geq 45 MPH
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



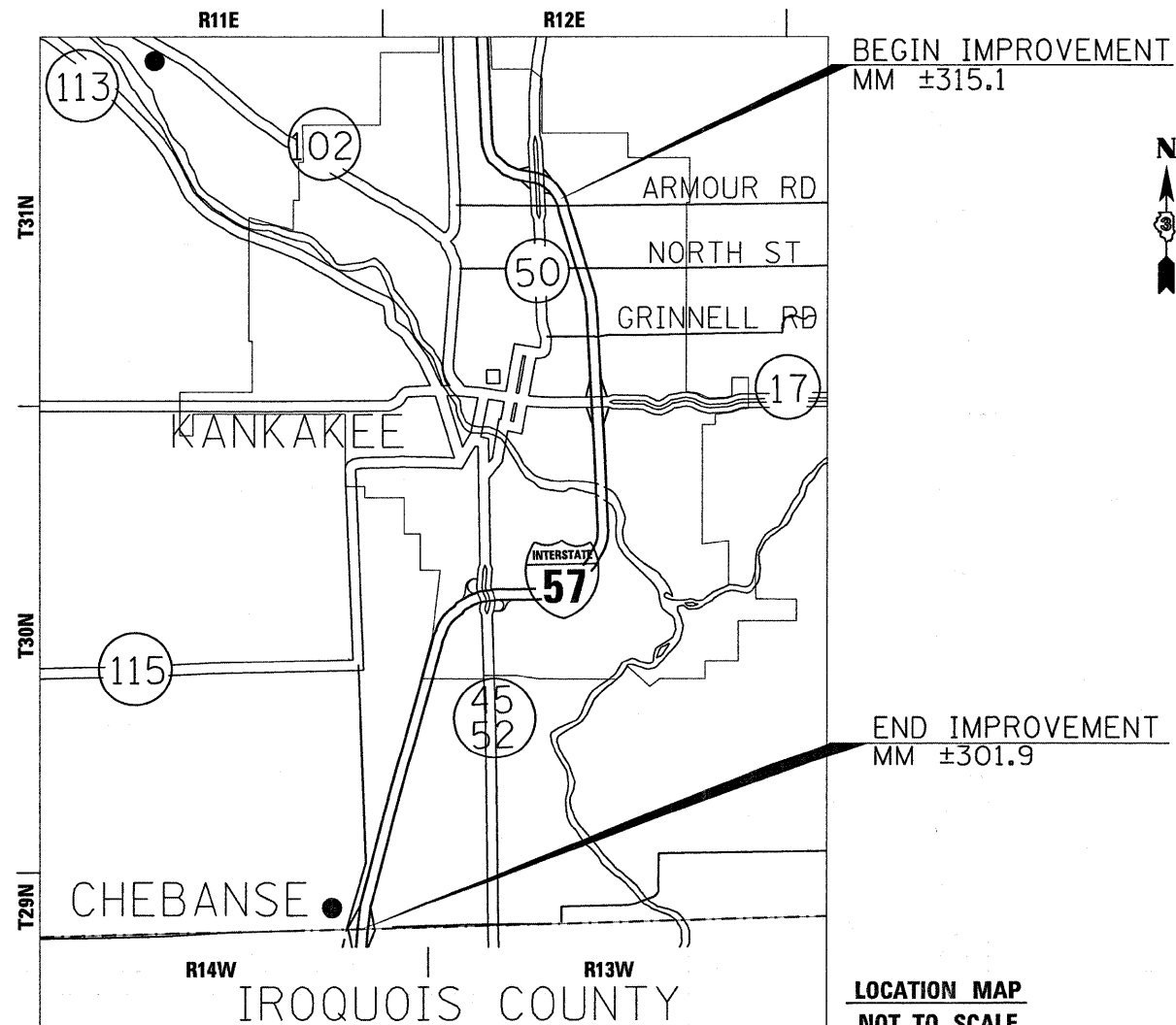
INTERSTATE (URBAN)
2009 ADT = 31800
P.V. = 82% S.U. = 4% M.U. = 14%

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: CRAIG REED
UNIT CHIEF: BRAD DUNCAN
TOWNSHIPS: OTTO, KANKAKEE, BOURBONNAIS

CONTRACT NO. 66A49



GROSS LENGTH & NET LENGTH = 13.2 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 17 2010
George Ryzman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 25 2010
Scott E. Stitt, P.E.
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

June 25 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS 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 IS PLACED.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.08	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD

SUMMARY OF QUANTITIES			90% FED. 10% STATE
CODE	CONSTRUCTION CODE TYPE:		I000-2A
NO.	ITEM	UNIT	URBAN TOTAL QUANTITY
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5988
40600300	AGGREGATE (PRIME COAT)	TON	148
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	22
40600895	CONSTRUCTING TEST STRIP	EACH	1
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	8305
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	74155
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	700
48203100	HOT-MIX ASPHALT SHOULDERS	TON	157
67100100	MOBILIZATION	L SUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3168
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1045
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	54912
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	7900
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	790
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	790
X0325702	NIGHTTIME WORK ZONE LIGHTING	L SUM	1
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOURL	160
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	2
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	54912
X7010805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)	L SUM	1

* SPECIALTY ITEMS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Donna Brown
ACTING DISTRICT STUDIES & PLANS ENGINEER

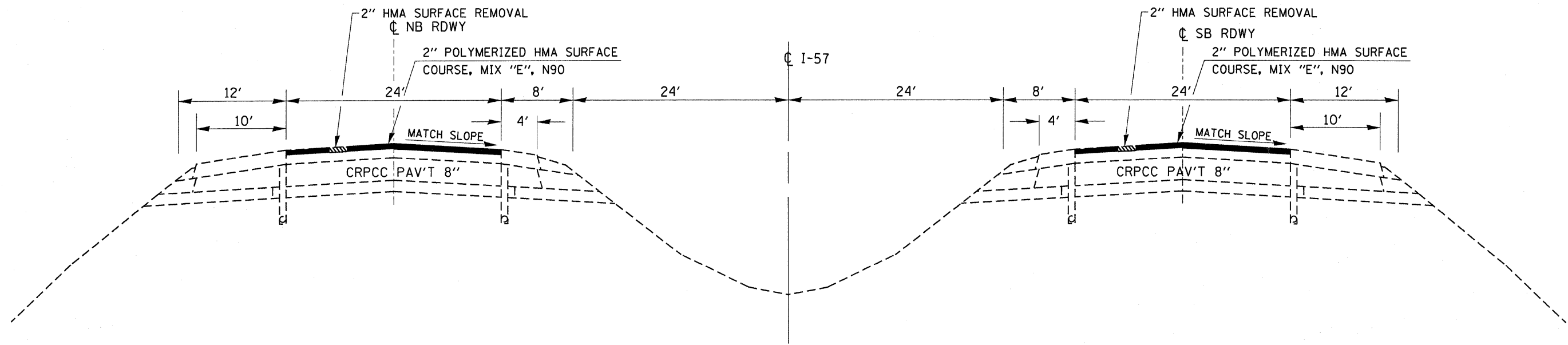
DATE: 05/14/10

EXAMINED BY: Albert K. Jones
DISTRICT CONSTRUCTION ENGINEER

Wayne L. Phillips
DISTRICT MATERIALS ENGINEER

James A. Anderson
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & SUMMARY OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwwork\pwwid\0185233\038	BA49-shr-cover.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	57	03 INTERMITTENT RS 2011-2	KANKAKEE	60 2
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -								CONTRACT NO. 66A49			
	PLOT DATE = May 13, 2010 - 01:14:39 PM	DATE -	REVISED -								ILLINOIS FED. AID PROJECT			



NOTE:
WHEN PAVING ONLY ONE LANE EXTEND MILLING & RESURFACING 1' PAST CENTERLINE INTO ADJACENT LANE

TYPICAL SECTION

MIXTURES TABLE

	POLY HMA SURFACE	HMA SHOULDERS * SHOULDER REPAIR
PG GRADE **	SBS-PG70-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N90	4.0% @ N70
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE	MIXTURE E	
DENSITY TEST METHOD	CORRELATION	CORES/ CORRELATION

* MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

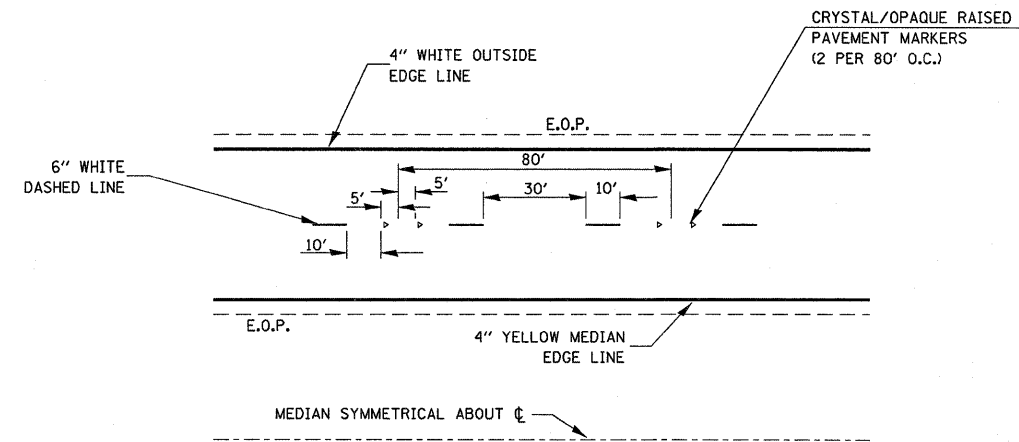
** WHEN RAP EXCEEDS 20%, THE VIRGIN ASPHALT BINDER SHALL BE REDUCED BY ONE GRADE (I.E. 25% WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG64-22 TO BE REDUCED TO A PG58-22).

MAINLINE						
LOCATIONS MILE MARKERS	LENGTH	HMA SURF REM 2"	MIX FOR JTS CRKS & FLANG	BIT MAT PRIME COAT	AGG. PR CT	POLY HMA SURF CSE "D", N90
		SQ YD	TON	GALLON	TON	TON
SOUTHBOUND DRIVING LANE						
306.9 - 307.1	1056	1525	0.5	122	3.1	170.8
309.9 - 310.1	1056	1408	0.4	113	2.8	157.7
311.0 - 311.2	1056	1525	0.5	122	3.1	170.8
312.5 - 315.0	13200	17600	5.3	1408	35.2	1971.2
SOUTHBOUND PASSING LANE						
309.9 - 310.1	1056	1408	0.4	113	2.8	157.7
312.5 - 315.0	13200	17600	5.3	1408	35.2	1971.2
NORTHBOUND DRIVING LANE						
303.9 - 304.1	1056	1525	0.5	122	3.1	170.8
311.0 - 311.4	2112	2816	0.8	225	5.6	315.4
312.1 - 312.7	3168	4224	1.3	338	8.4	473.1
314.4 - 315.1	3696	4928	1.5	394	9.9	551.9
NORTHBOUND PASSING LANE						
310.5 - 310.7	1056	1525	0.5	122	3.1	170.8
311.0 - 311.4	2112	2816	0.8	225	5.6	315.4
312.1 - 312.7	3168	4224	1.3	338	8.4	473.1
312.6 - 313.4	4224	6101	1.8	488	12.2	683.3
314.4 - 315.1	3696	4928	1.5	394	9.9	551.9
TOTALS	54912	74155	22	5932	148	8305

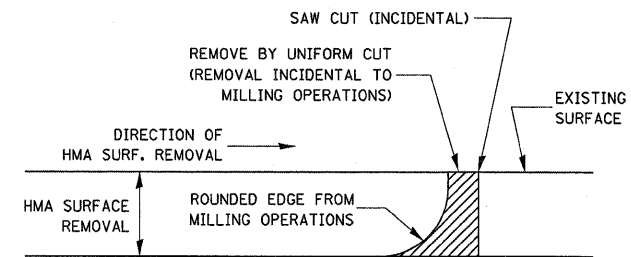
SHOULDER REPAIR			
LOCATIONS MILE MARKERS	HMA SURF REM 4"	BIT MAT PRIME COAT	HMA SHLDS
	SQ YD	GALLON	TON
VARIOUS LOCATIONS			
301.9 - 315.1	700	56	157
TOTALS	700	56	157

PAVEMENT MARKING							
LOCATIONS MILE MARKERS	LENGTH	EPOXY	PREF PLAST	RAISED REFL	RAISED REFL	SHORT TERM	WORK ZONE
		LINE 4"	TY B INLAID 6"	PAVT MARK	PAVT MARK REM	PAVT MARK	PAVT MARK REM
		FOOT	FOOT	EACH	EACH	FOOT	SQ FT
SOUTHBOUND DRIVING LANE							
306.9 - 307.1	1056	1056	260	26	26	106	34.8
309.9 - 310.1	1056	1056	260	26	26	106	34.8
311.0 - 311.2	1056	1056	260	26	26	106	34.8
312.5 - 315.0	13200	13200	3300	330	330	1320	435.6
SOUTHBOUND PASSING LANE							
309.9 - 310.1	1056	1056					
312.5 - 315.0	13200	13200					
NORTHBOUND DRIVING LANE							
303.9 - 304.1	1056	1056	260	26	26	106	34.8
311.0 - 311.4	2112	2112	530	52	52	211	69.7
312.1 - 312.7	3168	3168	790	80	80	317	104.5
314.4 - 315.1	3696	3696	920	92	92	370	122.0
NORTHBOUND PASSING LANE							
310.5 - 310.7	1056	1056	260	26	26	106	34.8
311.0 - 311.4	2112	2112					
312.1 - 312.7	3168	3168					
312.6 - 313.4	4224	4224	1060	106	106	422	139.4
314.4 - 315.1	3696	3696					
TOTALS	54912	54912	7900	790	790	3168	1045

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = May 11, 2010 - 11:02:21 AM	CHECKED -	REVISED -		CONTRACT NO. 66A49				ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.			



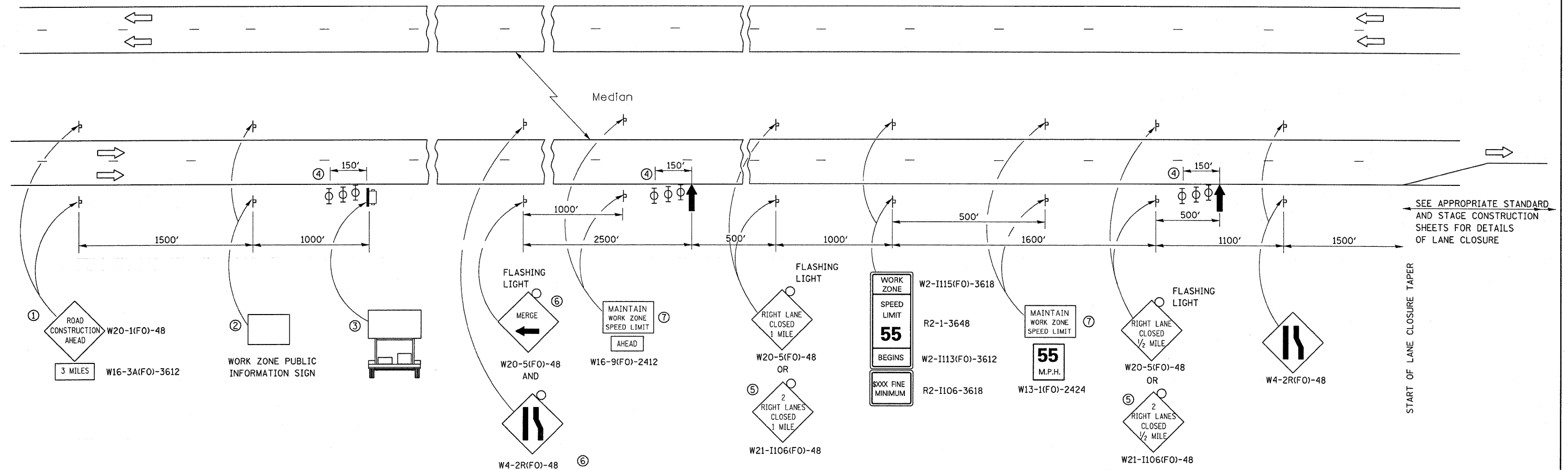
TYPICAL PAVEMENT MARKINGS



NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

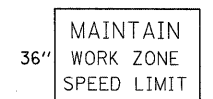
HMA DETAIL AT BUTT JOINTS

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -		CONTRACT NO. 66A49				ILLINOIS FED. AID PROJECT				
		PLOT DATE = May 11, 2010 - 11:02:26 AM	DATE -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED" / " x MILES AHEAD"
"LEFT LANE CLOSED" / " x MILES AHEAD"
"ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.

⑦ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.
48"



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▨ TEMPORARY THERMOPLASTIC RUMBLE STRIPS

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD 701400 (SPECIAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\pwork\IDOT\DUNCANBD\0185233\0366A49-sht-details.DGN		DRAWN -	REVISED -			57	D3 INTERMITTENT RS 2011-2	KANKAKEE	6	6	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 66A49					
PLOT DATE = May 11, 2010 - 11:02:32 AM		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.	