

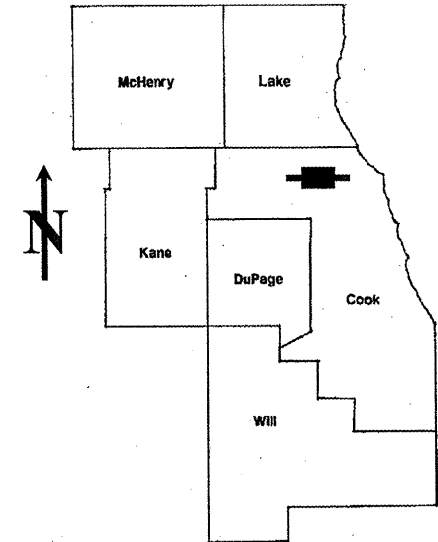
04-27-12 LETTING ITEM 002

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-004-PP	COOK	34	1

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**DISTRICT ONE**  
**PROPOSED HIGHWAY PLANS**

**CONTRACT NO. 60N92**

D-91-435-11



LOCATION OF IMPROVEMENT INDICATED THUS:

FOR INDEX OF SHEETS SEE SHEET 2

VARIOUS ROUTES  
 SECTION: 2011-004-PP  
 VARIOUS LOCATIONS IN NORTHERN COOK COUNTY  
 PCC PAVEMENT PATCHING  
 COOK COUNTY  
 C-91-435-11

DISTRICT ONE - DESIGN - PLAN PREPARATION ENGINEER:  
KEN ENG / (847) 705-4247

**CONTRACT NO. 60N92**

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

SUBMITTED: November 29, 2011  
*Diane M. O'Keefe*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23, 2012  
*John D. Baranzelli, P.E.*  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 2012  
*William R. Flexler*  
 acting DIRECTOR, DIVISION OF HIGHWAYS

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**J.U.L.I.E.: JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION (312) 744-7000**

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

<u>SHEET NO.</u>	<u>DESCRIPTION</u>	<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET	000001 -06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	420001 -07	PAVEMENT JOINTS
3	SUMMARY OF QUANTITIES	420701 -02	PAVEMENT FABRIC
4	GENERAL LOCATION MAP	421001 -02	BAR REINFORCEMENT FOR CRC PAVEMENT
5-6	SUMMARY OF PATCHING SCHEDULE	442001 -04	CLASS A PATCHES
7-19	PATCHING SCHEDULE	442101 -07	CLASS B PATCHES
20	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701400 -05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
21	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701401 -06	LANE CLOSURE, FREEWAY/EXPRESSWAY
22	FREEWAY SINGLE AND MULTI-LANE WEAVE (TC-09)	701411 -08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP
23	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)	701426 -04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS
24	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
25-26	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)	701446 -03	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
27	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701601 -07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
28	TRAFFIC CONTROL AND PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	701606 -08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
29	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	701701 -08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
30	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	701901 -02	TRAFFIC CONTROL DEVICES
31	ARTERIAL ROAD INFORMATION SIGN (TC-22)		
32	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE (TC-25)		
33	TRAFFIC CONTROL DETAILS FOR ARTERIAL CENTER LANE CLOSURE		
34	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)		

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

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (OR TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (OR ISTHA)

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

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

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

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

THE ENGINEER SHALL CONTACT WALLY CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-4342 MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

THE EXISTING ROADWAY TYPICAL SECTION IS ASSUMED TO BE 10 INCHES OF PORTLAND CEMENT CONCRETE (PCC) PAVEMENT.

NO PATCHING IS TO BE DONE WITHIN FIFTY (50) FEET OF ANY RAILROAD CROSSING WITHOUT OBTAINING THE PROPER RAILROAD PROTECTIVE LIABILITY INSURANCE.

THE MINIMUM CLASS A PATCH DIMENSIONS SHALL BE A LENGTH OF 4.5 FEET AND A WIDTH THAT INCLUDES HALF THE WIDTH OF THE TRAVEL WAY. THE MINIMUM CLASS B PATCH DIMENSIONS SHALL BE A LENGTH OF 6 FEET AND A WIDTH THAT INCLUDES THE FULL WIDTH OF THE TRAVEL WAY.

FOR ALL EXPRESSWAY LOCATIONS (MAINLINE AND RAMPS), CLASS PP-3 CONCRETE IS TO BE USED.

FOR INTERSECTION PATCHES, CLASS PP-5 CONCRETE IS TO BE USED. LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER.

JOINT SEALING FOR CLASS B PATCHES IS TO BE REPLACED WITH A SOLID PLASTIC BOND BREAKER (1/8" X T/3"; WHERE T IS EQUAL TO THE THICKNESS OF THE PATCH). THE COST OF THE SOLID PLASTIC BOND BREAKER IS TO BE INCLUDED IN THE COST OF THE CLASS B PATCH.

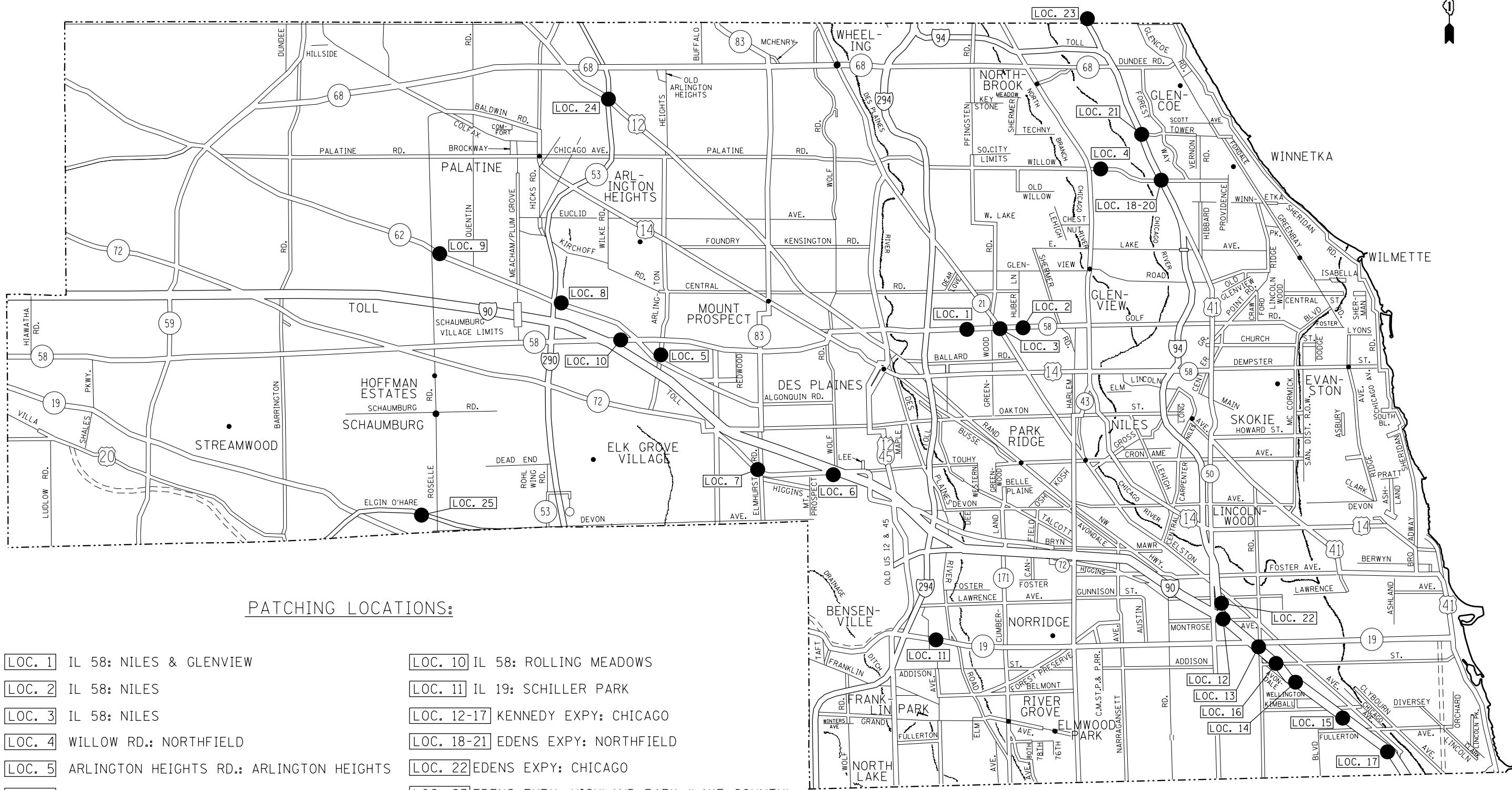
ANY DETECTOR LOOPS DAMAGED BY MILLING SHALL BE REPLACED IN KIND. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO QUANTIFY LOOP REPLACEMENTS NEEDED AND PROVIDE THE RESIDENT ENGINEER THIS INFORMATION PRIOR TO GRINDING OR REMOVAL.

THE COST OF TRAFFIC CONTROL AND PROTECTION FOR CENTER LANE CLOSURES OF THREE (3) LANE ARTERIAL ROUTES (PER DIRECTION) SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PATCH. THE CLOSURE SHALL BE IN ACCORDANCE WITH THE DETAIL "TRAFFIC CONTROL DETAILS FOR ARTERIAL CENTER LANE CLOSURE" AS SHOWN IN THE PLANS.

FILE NAME =	USER NAME = wilgreendp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\wilgreendp\0259819\Design.dgn	DRAWN -	REVISED -	VAR.			2011-004-PP	COOK	34	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 60N92							
PLOT DATE = 2/14/2012	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
SCALE:						SHEET NO.	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			URBAN CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	36	36					* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	262	262					
25200110	SODDING, SALT TOLERANT	SO YD	36	36					X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1					
42101300	PROTECTIVE COAT	SO YD	11615	11615					X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	42	42					
44200553	CLASS A PATCHES, TYPE II, 10 INCH	SO YD	636	636					* X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	FOOT	300	300					
44200557	CLASS A PATCHES, TYPE III, 10 INCH	SO YD	98	98					* X8850102	INDUCTION LOOP	FOOT	100	100					
44200559	CLASS A PATCHES, TYPE IV, 10 INCH	SO YD	566	566					Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	213	213					
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SO YD	6426	6426					Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	566	566					
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SO YD	1584	1584					Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SO YD	2257	2257														
44201299	DOWEL BARS 1 1/2"	EACH	15360	15360														
44213000	PATCHING REINFORCEMENT	SO YD	1300	1300														
44213100	PAVEMENT FABRIC	SO YD	3841	3841														
44213200	SAW CUTS	FOOT	64455	64455														
44213204	TIE BARS 3/4"	EACH	975	975														
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	20	20														
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6														
67100100	MOBILIZATION	L SUM	1	1														
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1														
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1														
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1														
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	22	22														
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2														
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1														
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SO FT	130	130														
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	5032	5032														
* 78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	20	20														
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	180	180														
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	660	660														
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	625	625														
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	100	100														
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	104	104														

\* SPECIALTY ITEM



PATCHING LOCATIONS:

- LOC. 1 IL 58: NILES & GLENVIEW
- LOC. 2 IL 58: NILES
- LOC. 3 IL 58: NILES
- LOC. 4 WILLOW RD.: NORTHFIELD
- LOC. 5 ARLINGTON HEIGHTS RD.: ARLINGTON HEIGHTS
- LOC. 6 IL 72: DES PLAINES
- LOC. 7 IL 72: ELK GROVE VILLAGE
- LOC. 8 IL 62: ROLLING MEADOWS & SCHAUMBURG
- LOC. 9 IL 62: PALATINE
- LOC. 10 IL 58: ROLLING MEADOWS
- LOC. 11 IL 19: SCHILLER PARK
- LOC. 12-17 KENNEDY EXPY: CHICAGO
- LOC. 18-21 EDENS EXPY: NORTHFIELD
- LOC. 22 EDENS EXPY: CHICAGO
- LOC. 23 EDENS EXPY: HIGHLAND PARK (LAKE COUNTY)
- LOC. 24 IL 53: ARLINGTON HEIGHTS
- LOC. 25 ELGIN-O'HARE EXPY: ITASCA, ELK GROVE VILLAGE, ROSELLE, SCHAUMBURG & HANOVER PARK

ARTERIAL LOCATION (SEE MAP)	SUMMARY - NORTH COOK COUNTY ROUTES	CLASS A PATCHES, 10" TYPE II (SY)	CLASS A PATCHES, 10" TYPE III (SY)	CLASS A PATCHES, 10" TYPE IV (SY)	CLASS B PATCHES, 10" TYPE II (SY)	CLASS B PATCHES, 10" TYPE III (SY)	CLASS B PATCHES, 10" TYPE IV (SY)	
LOC. 1	IL 58 (DEE RD TO WESTERN AVE)				547			(INCLUDES 128 SY OF PP-5 CONCRETE) **
LOC. 2	IL 58 (MILWAUKEE AVE TO WASHINGTON ST)				2197			(INCLUDES 240 SY OF PP-5 CONCRETE) **
LOC. 3	IL 58/MILWAUKEE AVE (INTERSECTION)				610	96	107	(INCLUDES 479 SY OF PP-5 CONCRETE) **
LOC. 4	WILLOW ROAD (WAUKEGAN RD TO SUNSET RIDGE RD)				857	32		(INCLUDES 56 SY OF PP-5 CONCRETE) **
LOC. 5	ARLINGTON HEIGHTS ROAD (IL 58 TO 0.25 MI S/O I-90)				540			(INCLUDES 54 SY OF PP-5 CONCRETE) **
LOC. 6	IL 72 (WOLF RD TO 400 W. TOUHY AVE)				53	128		(INCLUDES 96 SY OF PP-5 CONCRETE) **
LOC. 7	IL 72 (0.25 MI E/O ELMHURST RD TO 0.25 MI W/O LANDMEIER RD)				165	265	75	(INCLUDES 135 SY OF PP-5 CONCRETE) **
LOC. 8	IL 62 (BARKER TO 0.25 MI W/O IL 53)				96	432	524	(INCLUDES 249 SY OF PP-5 CONCRETE) **
LOC. 9	IL 62 (0.5 MI E/O ROSELLE RD TO ROSELLE RD)				65	64		(INCLUDES 31 SY OF PP-5 CONCRETE) **
LOC. 10	IL 58 (200 YDS W/O IL 62 TO SALT CREEK BRIDGE)				755	336	293	(INCLUDES 522 SY OF PP-5 CONCRETE) **
LOC. 11	IL 19/IRVING PARK ROAD (SCHILLER PARK, WEST OF WESLEY TERRACE, UNDER THE S00 LINE, BOTH DIRECTIONS)	61						(INCLUDES 0 SY OF PP-5 CONCRETE) **

CONTINUED ON NEXT SHEET

\*\* CLASS PP-5 CONCRETE IS TO BE USED FOR ALL INTERSECTION PATCHES

EXPRESSWAY  
LOCATION  
(SEE MAP)

		CLASS A PATCHES, 10" TYPE II (SY)	CLASS A PATCHES, 10" TYPE III (SY)	CLASS A PATCHES, 10" TYPE IV (SY)	CLASS B PATCHES, 10" TYPE II (SY)	CLASS B PATCHES, 10" TYPE III (SY)	CLASS B PATCHES, 10" TYPE IV (SY)
	SUMMARY - NORTH COOK COUNTY ROUTES						
LOC. 12	* KENNEDY EXPRESSWAY (SEB MONTROSE ENTRANCE THROUGHOUT THE RAMP)				78		347
LOC. 13	* KENNEDY EXPRESSWAY (SEB PULASKI ENTRANCE)				75		60
LOC. 14	* KENNEDY EXPRESSWAY (SEB KIMBALL EXIT IN MIDDLE)						120
LOC. 15	* KENNEDY EXPRESSWAY (SEB WESTERN AVE ENTRANCE)				23	64	
LOC. 16	* KENNEDY EXPRESSWAY (NWB ADDISON ENTRANCE BEGINNING OF RAMP)				48		60
LOC. 17	* KENNEDY EXPRESSWAY (NWB ARMITAGE ENTRANCE)				28		
LOC. 18	* EDENS EXPRESSWAY (NB TO WB WILLOW RD EXIT)				96		176
LOC. 19	* EDENS EXPRESSWAY (EB WILLOW RD TO SB EDENS ENTRANCE)				21		142
LOC. 20	* EDENS EXPRESSWAY (NB TO EB WILLOW RD)				22	21	139
LOC. 21	* EDENS EXPRESSWAY (NB TOWER ENTRANCE RAMP)				139	110	54
LOC. 22	* EDENS EXPRESSWAY (SB WILSON ENTRANCE RAMP)				11	36	160
LOC. 23	* EDENS EXPRESSWAY (LAKE-COOK RD TO CHANTILLY)	135	32	527			
LOC. 24	* IL 53 RAMPS AT RAND RD (SB ENTRANCE RAMP TO IL 53 FROM RAND RD AND NB EXIT RAMP FROM IL 53 TO RAND RD)	352	66	39			
LOC. 25	* ELGIN-O'HARE EXPRESSWAY (ROHLWING RD TO US 20)	88					
	NORTH COOK COUNTY TOTALS =	636 SY	98 SY	566 SY	6426 SY	1584 SY	2257 SY

\* CLASS PP-3 CONCRETE IS TO BE USED FOR ALL EXPRESSWAY LOCATIONS (MAINLINE AND RAMPS)

ROUTE: IL 58 (Dee Rd to Western Ave) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
Dee Rd.	Western Ave.	WB	1	6	12	72	8
		WB	2	6	12	72	8
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
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	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	
	WB	1	6	12	72	8	
	WB	2	6	12	72	8	

ROUTE: IL 58 (Dee Rd to Western Ave) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
		WB	1	10	12	120	13
		WB	2	10	12	120	13
		WB	1	6	12	72	8
		WB	2	6	12	72	8
		WB	1	6	12	72	8
		WB	2	6	12	72	8
		WB	1	6	12	72	8
		WB	2	6	12	72	8
		WB	LTL	6	12	72	8
		WB	1	6	12	72	8
		WB	2	6	12	72	8
TOTALS:					804 FT		547 SY

ROUTE: IL 58 (Milwaukee Ave to Washington St) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
Milwaukee	Michael Manor	EB	1	6	12	72	8
		EB	2	6	12	72	8
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	
	EB	1	6	12	72	8	
	EB	2	6	12	72	8	
	EB	3	6	12	72	8	

CONTINUED ON NEXT SHEET













ROUTE: Arlington Heights Rd (IL 58 to 0.25 mi south of I-90) - Jointed Pavement | PATCHING = CLASS B

CROSS STREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
		NB	3	6	12	72	8
		NB	4	6	12	72	8
		NB	1	8	12	96	11
		NB	2	8	12	96	11
		NB	3	8	12	96	11
		NB	1	6	12	72	8
		NB	2	6	12	72	8
		NB	3	6	12	72	8
		NB	LTL	6	11	66	7

TOTALS: 778 FT 540 SY

ROUTE: IL 72 (Wolf Rd 400 W Touhy) - Jointed Pavement | PATCHING = CLASS B

CROSS STREET		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
East of Wolf Rd	400 W. Touhy Avenue	WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	2	12	6	72	8
		WB	1,2,3	36	6	216	24
		WB	1,2	24	6	144	16
		WB	3	12	6	72	8
		WB	1,2	24	6	144	16
		WB	2	6	8	48	5
		WB	1,2	24	6	144	16
		WB	1,2	24	6	144	16
400 W. Touhy Avenue	East of Wolf Rd	EB	1	12	6	72	8
		EB	2	12	6	72	8
		EB	1,2	24	6	144	16
IL 72/Wolf Rd	Intersection	EB	1,2,3	36	6	216	24

TOTALS: 86 FT 181 SY

ROUTE: IL 72 (0.25 mi E/o Elmhurst Rd to 0.25 mi W/o Landmeier Rd) - Jointed Pavement | PATCHING = CLASS B

CROSS STREET		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
		WB	1,2	24	6	144	16
		WB	2	12	6	72	8
		WB	1,2	24	6	144	16
		WB	2	12	6	72	8
		WB	1,2,3	36	6	216	24
		WB	1,2,3	36	6	216	24
		WB	1,2,3	36	6	216	24
		WB	2	12	8	96	11
		WB	2	12	6	72	8
		WB	2	12	12	144	16
		WB	2,3	24	6	144	16
		WB	3	12	6	72	8
		WB	2,3	25	6	150	17
		WB	2,3	15	6	90	10
		WB	3	6	8	48	5
		WB	1,2,3	36	6	216	24
		WB	1,2	24	6	144	16
		WB	2	12	6	72	8
		WB	3	12	6	72	8
		WB	1,2,3	36	12	432	48
		WB	2,3	24	6	144	16
		WB	1,2,3	36	6	216	24
		WB	1	12	6	72	8
		WB	2	12	6	72	8
		WB	3	12	6	72	8
		WB	1,2	24	10	240	27
		EB	1,2	24	6	144	16
		EB	1	12	6	72	8
		EB	1,2	24	6	144	16
		EB	1	12	8	96	11
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	3	12	6	72	8
		EB	2	12	6	72	8
		EB	1	12	6	72	8
		EB	2	12	6	72	8

TOTALS: 238 FT 504 SY



ROUTE: IL 58 (200 yds w/o IL 62 to Salt Creek Bridge) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
Salt Creek Bridge	200 yds w/o IL 62	EB	1	15	6	90	10
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1	15	6	90	10
		EB	1,2	24	6	144	16
		EB	1	12	6	72	8
		EB	1,2,3	12	40	480	53
		EB	1,2,3	12	50	600	67
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1,2	24	6	144	16
		EB	1	10	6	60	7
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1	15	4	60	7
		EB	1,2	24	6	144	16
		EB	1	12	6	72	8
		EB	1	4	12	48	5
		EB	1	12	6	72	8
		EB	1	6	8	48	5
		EB	1	10	6	60	7
		EB	1	12	6	72	8
		EB	1	15	6	90	10
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	2	12	6	72	8
		EB	2	12	6	72	8
200 yds w/o IL 62	Salt Creek Bridge	WB	1,2	24	6	144	16
		WB	1	15	12	180	20
		WB	1	15	12	180	20
		WB	2	12	6	72	8
		WB	1,2	24	6	144	16
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	LTL	15	4	60	7
		WB	1,2	24	6	144	16
		WB	1,2	24	6	144	16
		WB	1,2,3	40	6	240	27
		WB	2	15	6	90	10
		WB	1	12	6	72	8
		WB	2	12	6	72	8
		WB	2	12	6	72	8
		WB	2	12	6	72	8
		WB	2	12	6	72	8
		WB	2	12	6	72	8
Shopping Center Entr.	IL 58	WB	-	12	12	144	16
		WB	1	15	6	90	10
		WB	1	15	6	90	10
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8

ROUTE: IL 58 (200 yds w/o IL 62 to Salt Creek Bridge) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8
		WB	1	12	6	72	8
Salt Creek Bridge	200 yds w/o IL 62	EB	1	15	6	90	10
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1	15	6	90	10
		EB	1,2	24	6	144	16
		EB	1	12	6	72	8
		EB	1,2,3	12	40	480	53
		EB	1,2,3	12	50	600	67
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1,2	24	6	144	16
		EB	1	10	6	60	7
		EB	1	12	6	72	8
		EB	1	12	6	72	8
		EB	1,2	24	6	144	16
		EB	1	12	6	72	8
		EB	1	4	12	48	5
		EB	1	12	6	72	8
		EB	1	6	8	48	5
		EB	1	10	6	60	7
		EB	1	12	6	72	8
		EB	1	15	6	90	10

TOTALS: 920 FT 1384 SY





ROUTE: Kennedy Expressway (SEB Kimball Exit in middle) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
			ramp	18	15	270	30
			ramp	18	15	270	30
			ramp	18	15	270	30
			ramp	18	15	270	30

TOTALS: 60 FT 120 SY

ROUTE: Kennedy Expressway (NWB Armitage Entrance) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
			ramp	21	6	126	14
			ramp	21	6	126	14

TOTALS: 12 FT 28 SY

ROUTE: Kennedy Expressway (SEB Western Ave Entrance) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
			ramp	24	6	144	16
			ramp	24	6	144	16
			ramp	24	6	144	16
			ramp	24	6	144	16
			ramp	24	6	144	16
			ramp	8	6	48	5
			ramp	11	6	66	7
			ramp	15	6	90	10

TOTALS: 42 FT 87 SY

ROUTE: Edens Expressway (NB to WB Willow Rd exit) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
		NB	Ramp	16	6	96	11
				16	6	96	11
				16	18	288	32
				16	6	96	11
				16	6	96	11
				16	6	96	11
				16	8	128	14
				16	6	96	11
				16	8	128	14
				16	35	560	62
				16	30	480	53
				16	16	256	28

TOTALS: 151 FT 268 SY

ROUTE: Kennedy Expressway (NWB Addison Entrance beginning of ramp) - Jointed Pavement PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
			ramp	18	15	270	30
			ramp	18	15	270	30
			ramp	18	6	108	12
			ramp	18	6	108	12
			ramp	18	6	108	12
			ramp	18	6	108	12

TOTALS: 54 FT 108 SY

ROUTE: Edens Expressway (EB Willow Rd to SB Edens entrance) PATCHING = CLASS B

CROSSSTREETS		DIRECTION (EB/WB) (NB/SB)	LANE NO. (1, 2, 3)	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	REPAIR AREA (SQ FT)	REPAIR AREA (SQ YD)
FROM	TO						
		SB	Ramp	16	80	1280	142
				16	6	96	11
				16	6	96	11

TOTALS: 92 FT 164 SY





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

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

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

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

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

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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

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

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

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

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

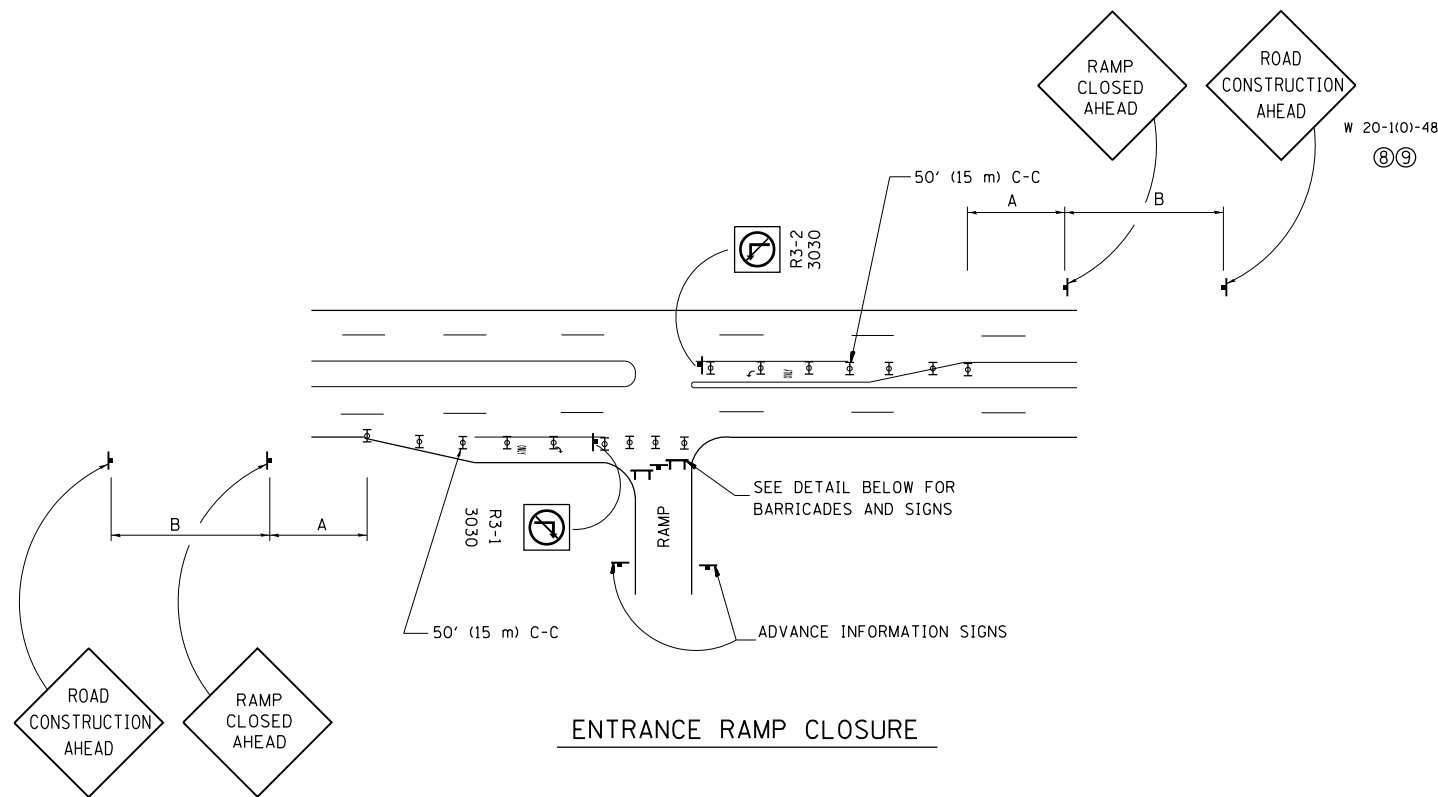
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = wilgreendp	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\wilgreendp\d0259819\DotStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01					VAR.	2011-004-PP	COOK	34	20
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 12-15-09			<b>BD600-06 (BD-24)</b>			<b>CONTRACT NO. 60N92</b>				
PLOT DATE = 2/14/2012	DATE - 03-11-94				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



**ENTRANCE RAMP CLOSURE**

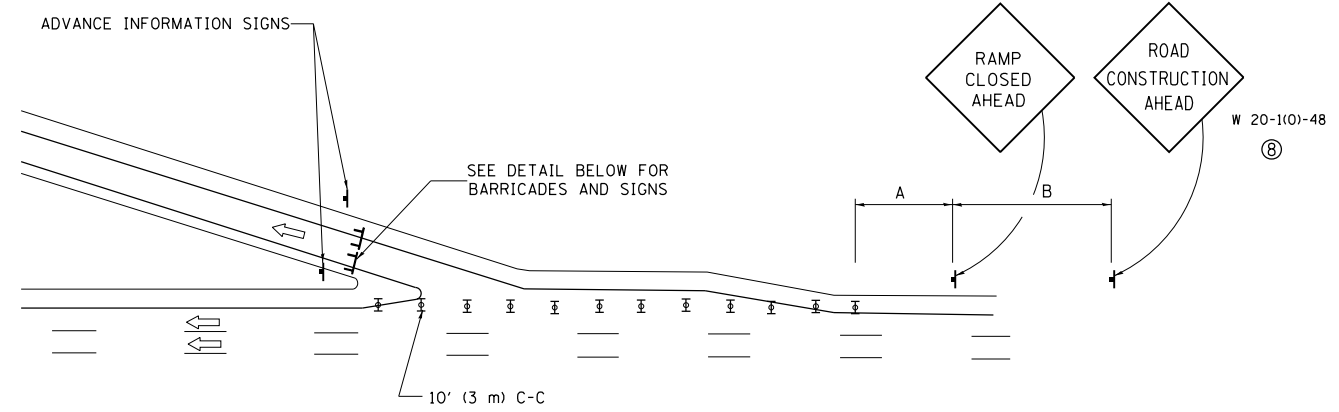
**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

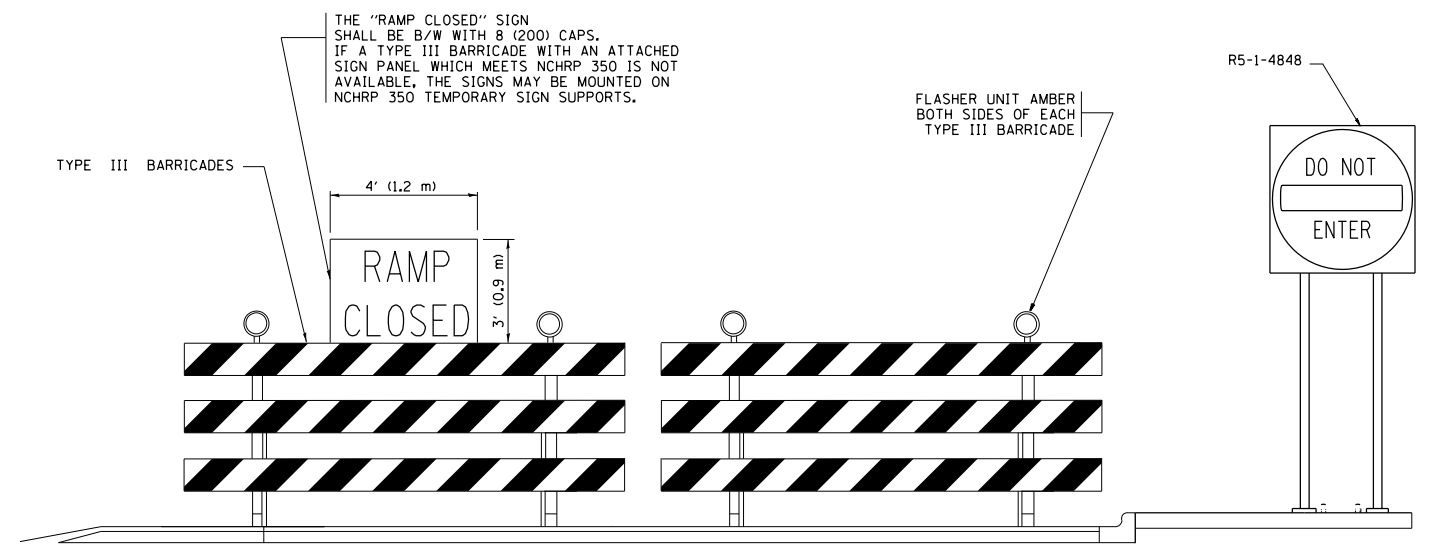
W 20-100-48  
⑧⑨

- SYMBOLS**
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ⊓ TYPE III BARRICADE WITH FLASHING LIGHT



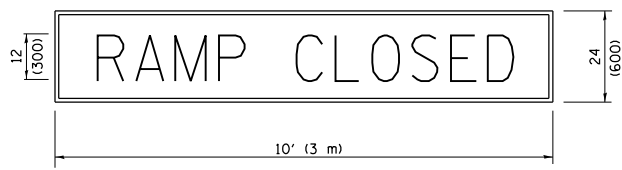
**EXIT RAMP CLOSURE**

W 20-100-48  
⑧



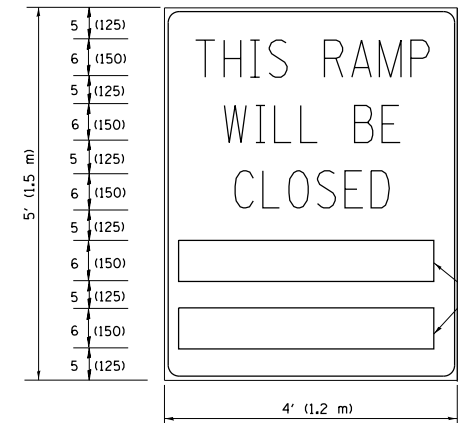
**DETAIL FOR REQUIRED BARRICADES & SIGNS**

**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND  
1/2 (12) BORDER  
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

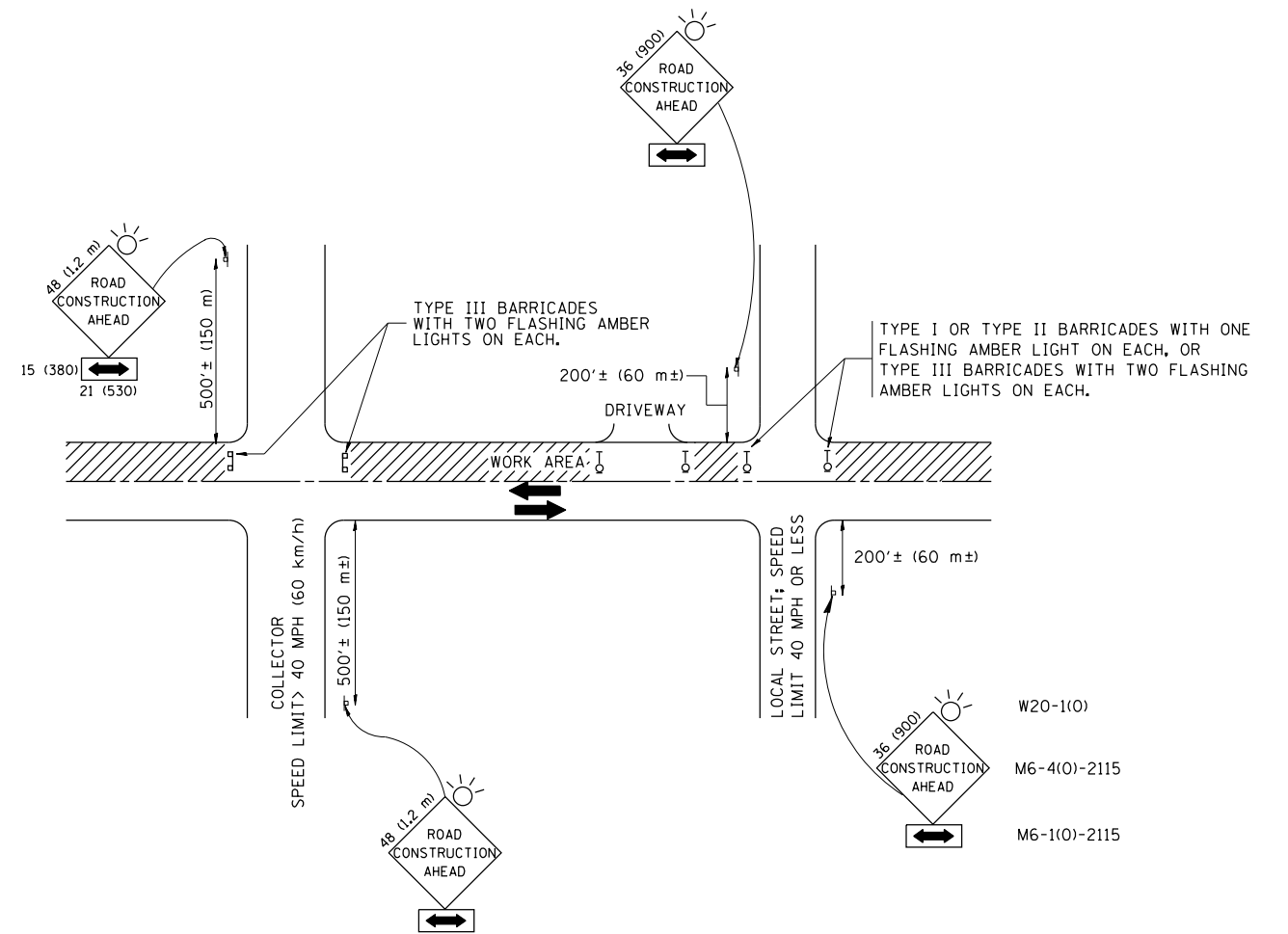
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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 2/14/2012	DATE - 02-83	REVISED - SPB 12-09

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	21
TC-08		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

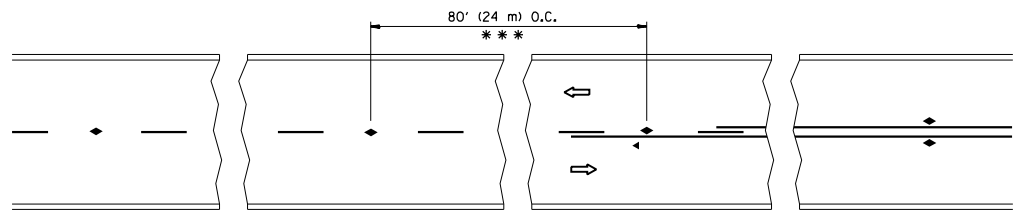
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 2/14/2012	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

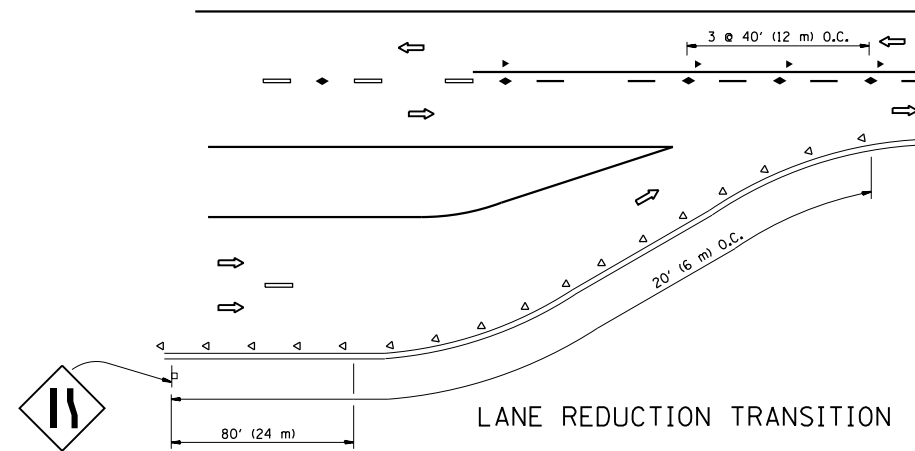
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	23
TC-10			CONTRACT NO. 60N92	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

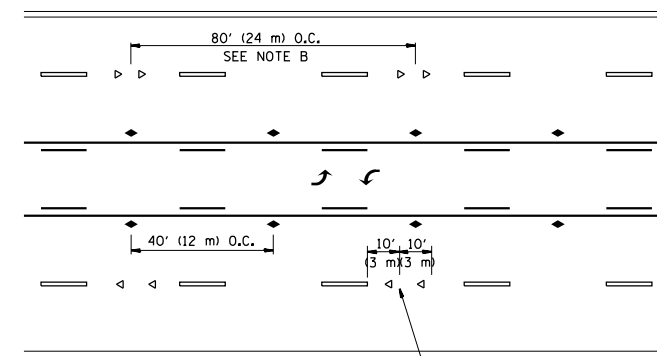


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

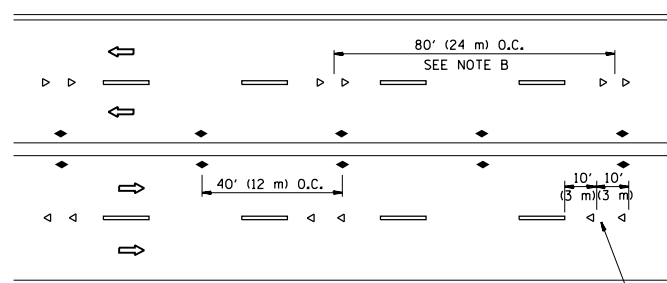
TWO-LANE/TWO-WAY



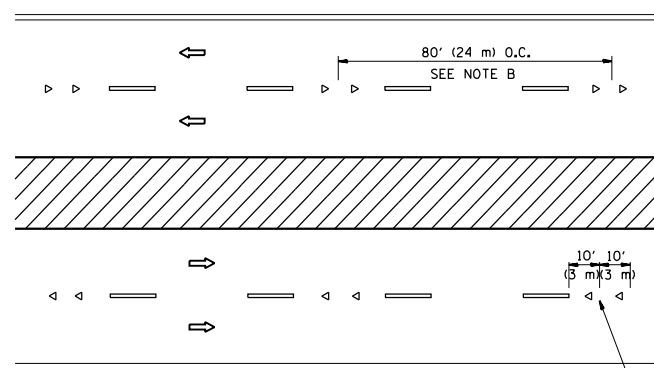
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

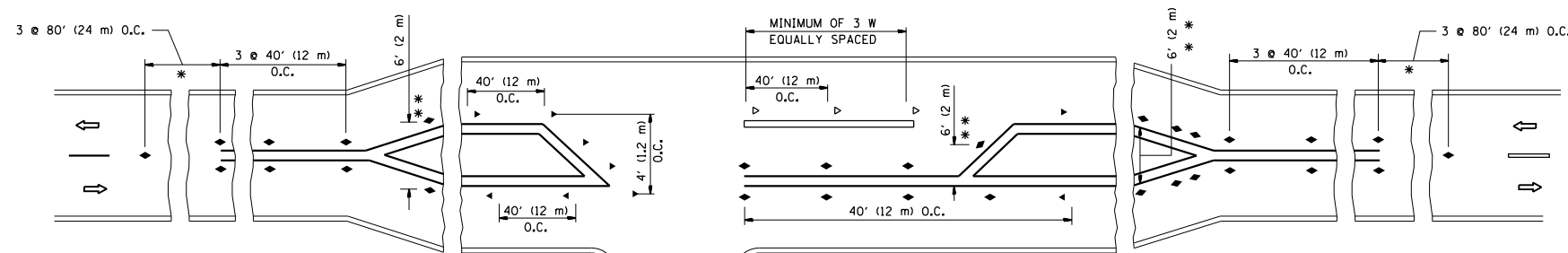
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- 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.

LEFT TURN

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

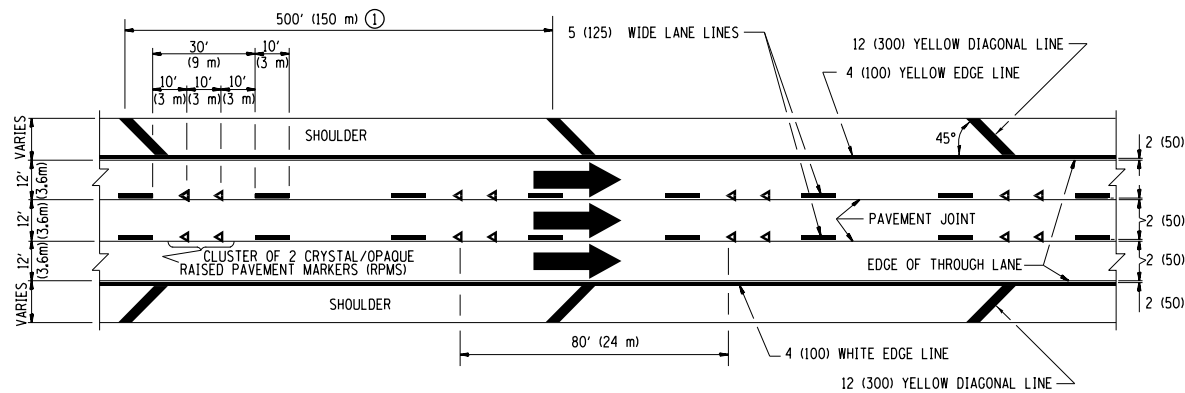
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	PLOT DATE = 2/14/2012	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	24
TC-11		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

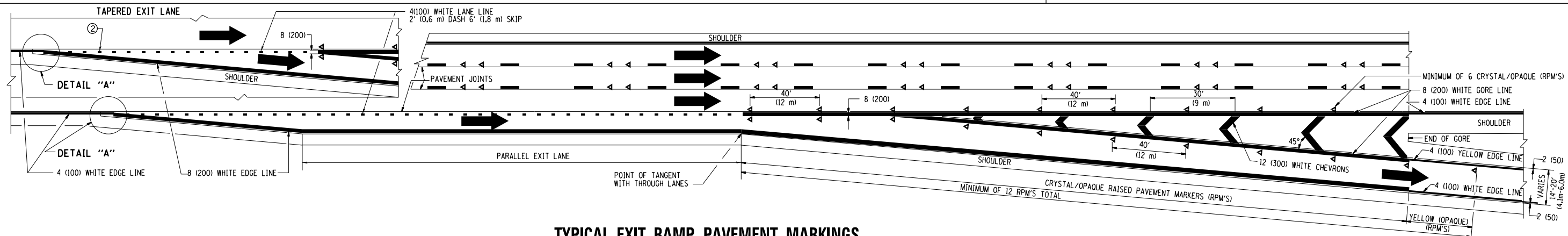




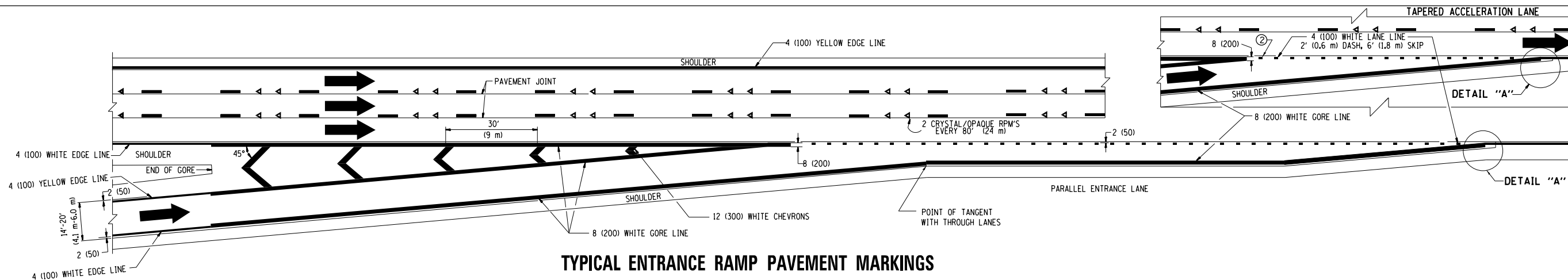
**TYPICAL EDGE LINES & LANE LINES**

**PAVEMENT MARKING MATERIALS**

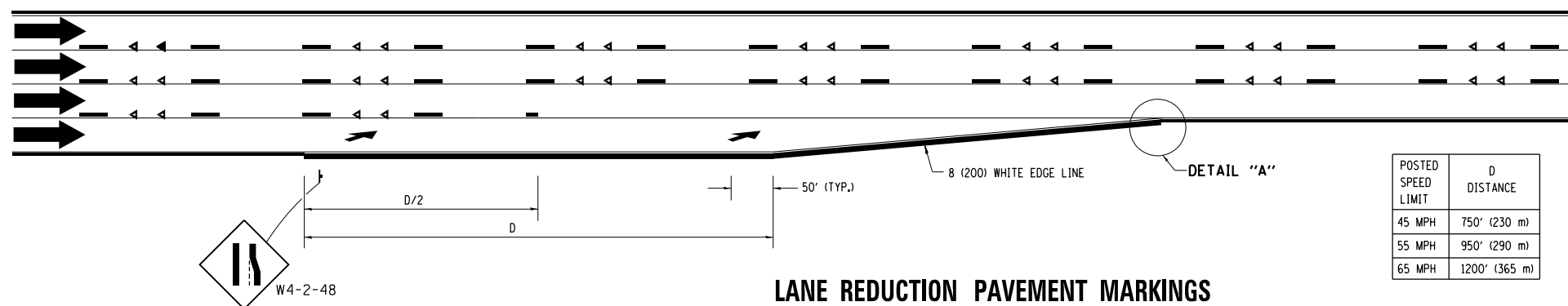
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC.



**TYPICAL EXIT RAMP PAVEMENT MARKINGS**

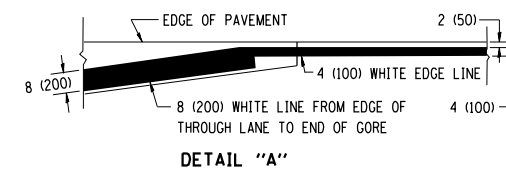


**TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS**

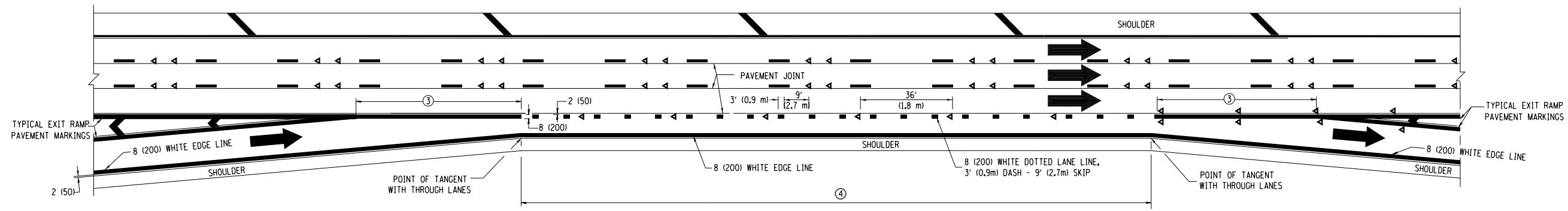


**LANE REDUCTION PAVEMENT MARKINGS**

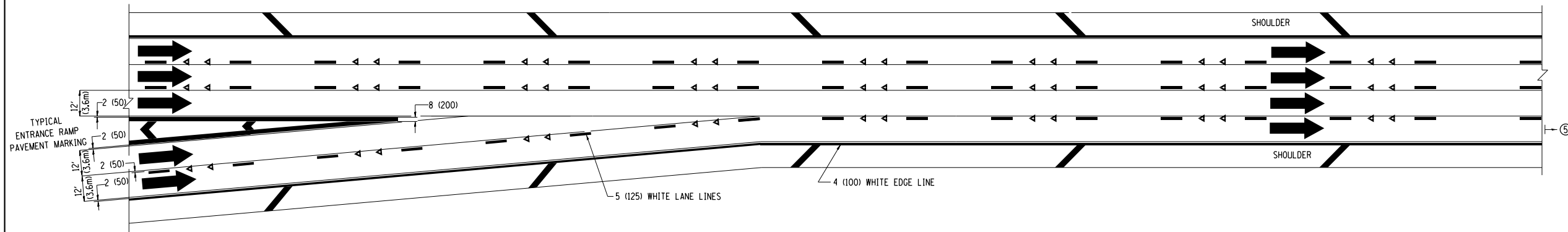
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



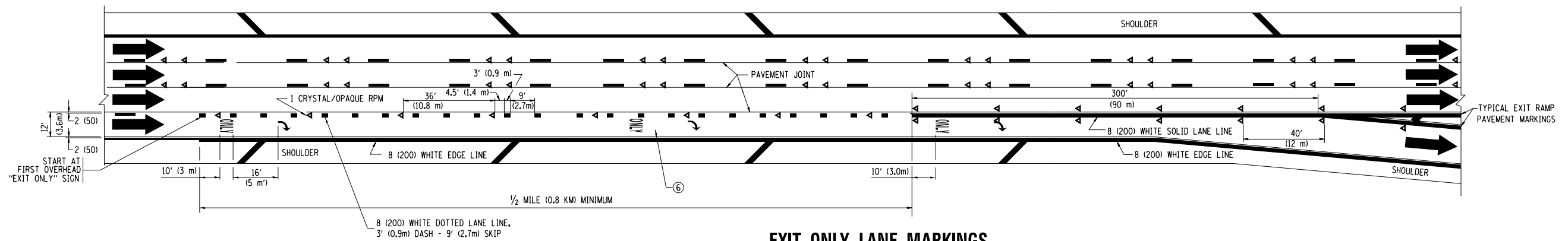
- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
  - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



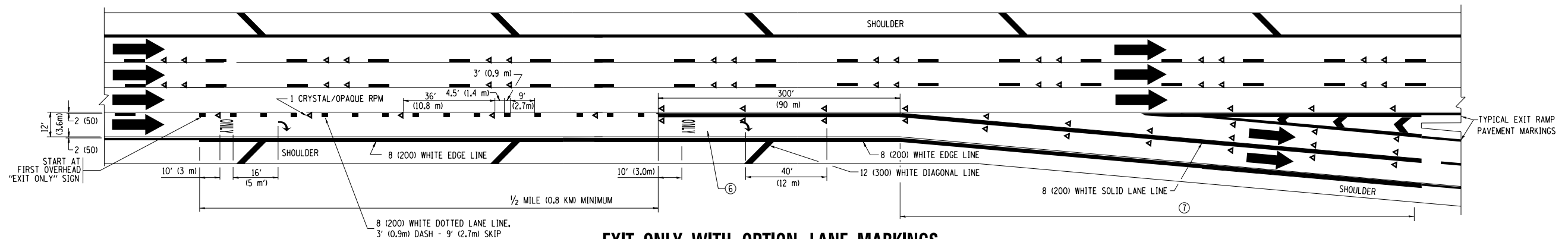
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

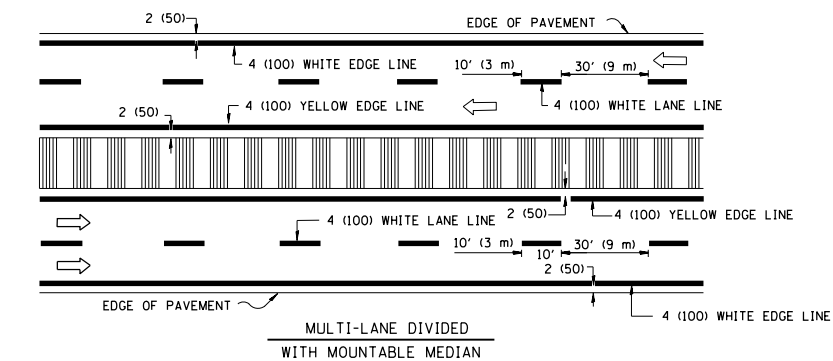
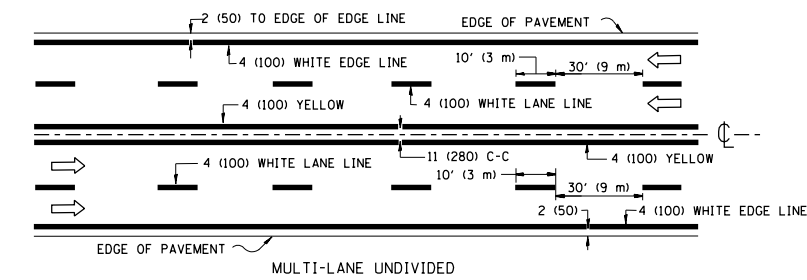
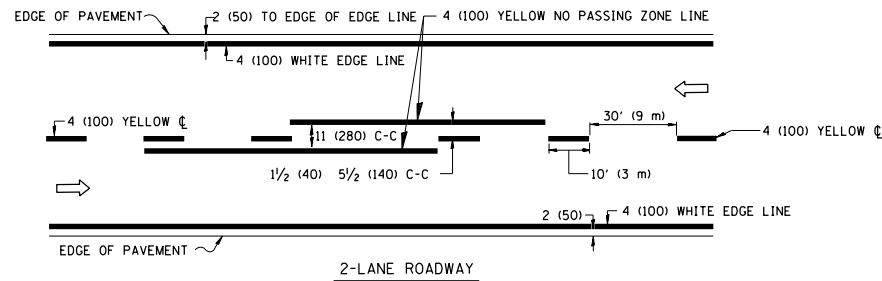
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
  - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - S.P.B. 01-07
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

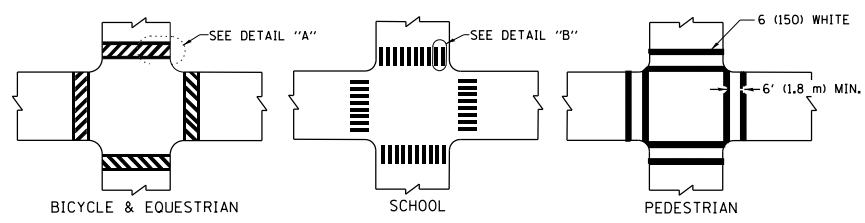
<b>MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS</b>			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	26
<b>TC-12</b>		<b>CONTRACT NO. 60N92</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

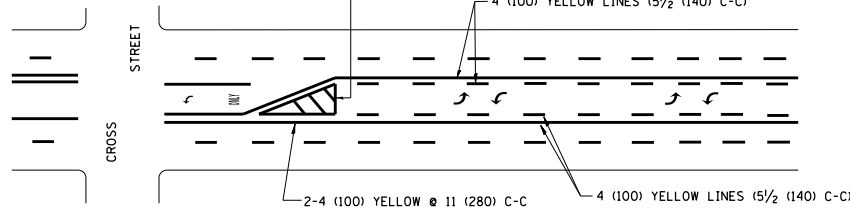
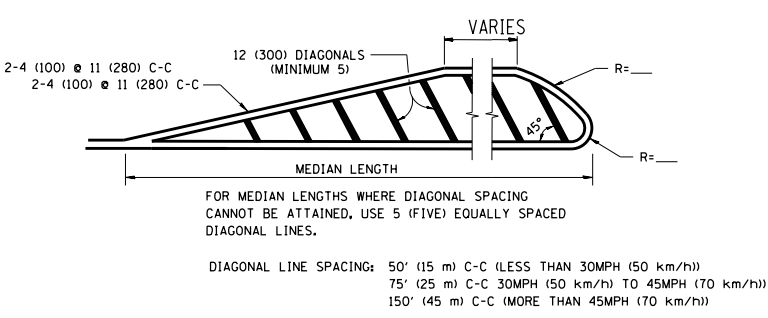
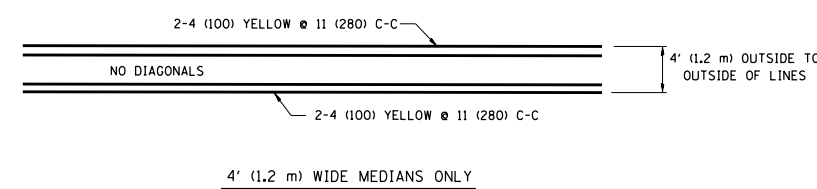


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

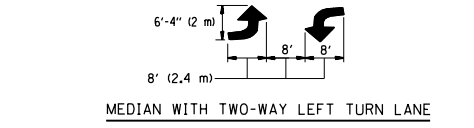
**TYPICAL LANE AND EDGE LINE MARKING**



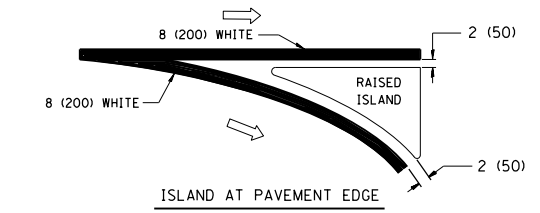
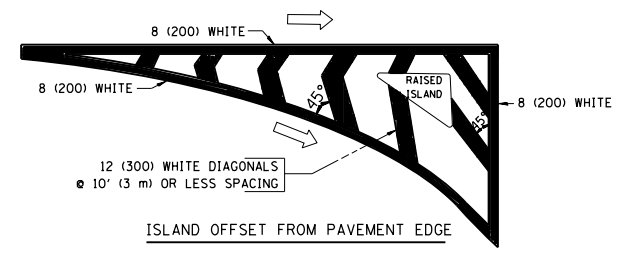
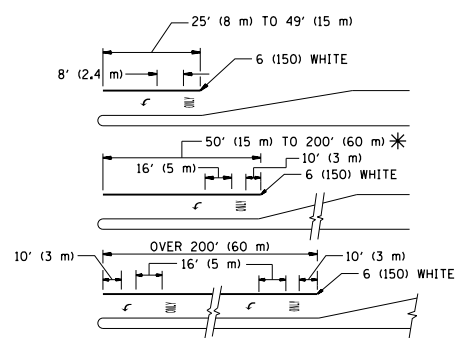
**TYPICAL CROSSWALK MARKING**



**TYPICAL PAINTED MEDIAN MARKING**



**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) MIN. LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

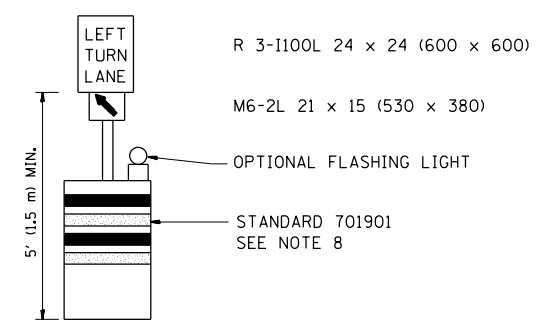
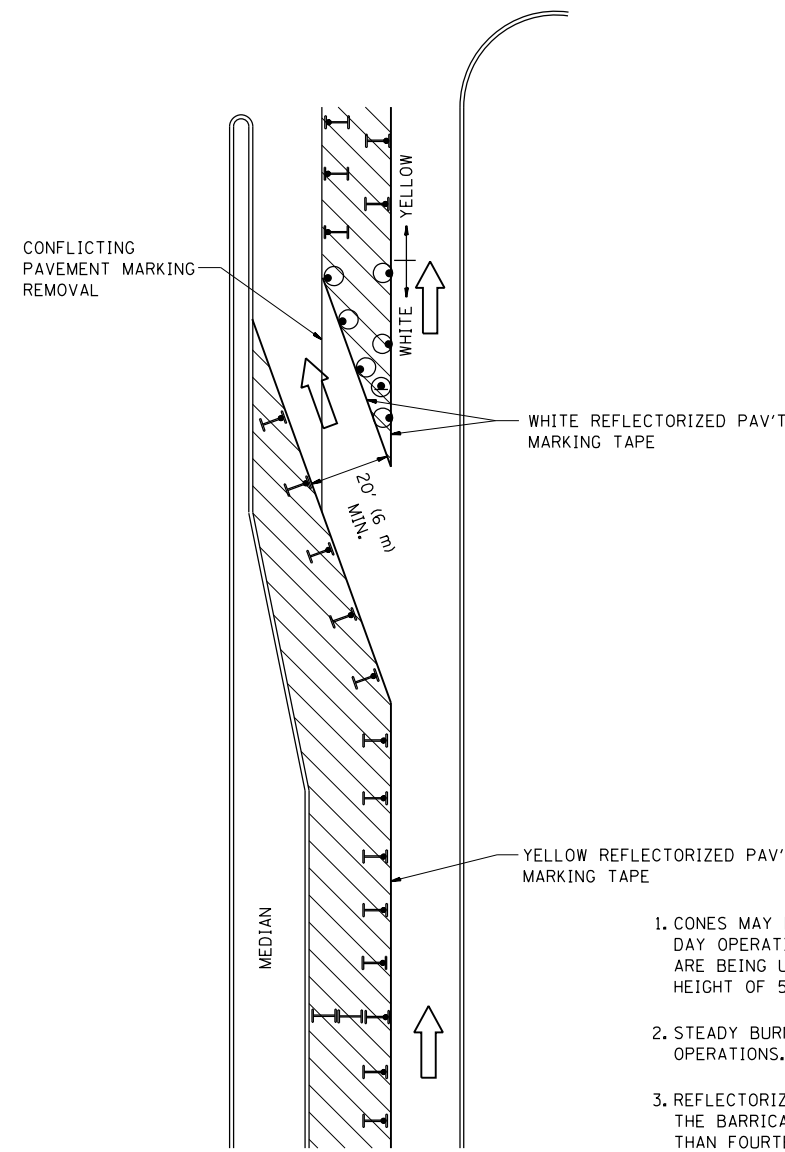
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 2/14/2012	DATE - 03-19-90	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	27
TC-13		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

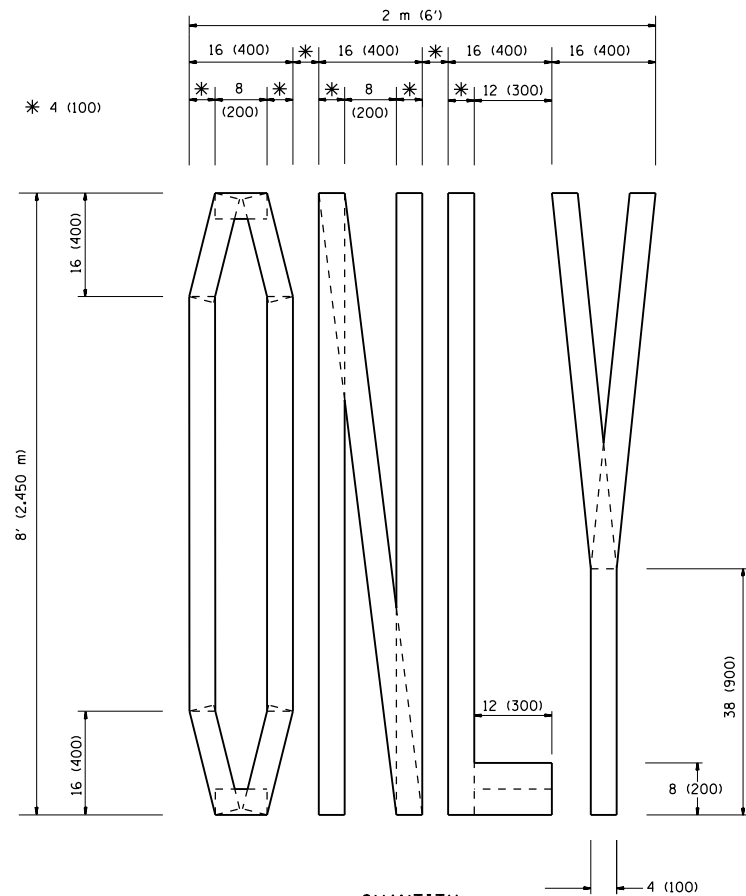
- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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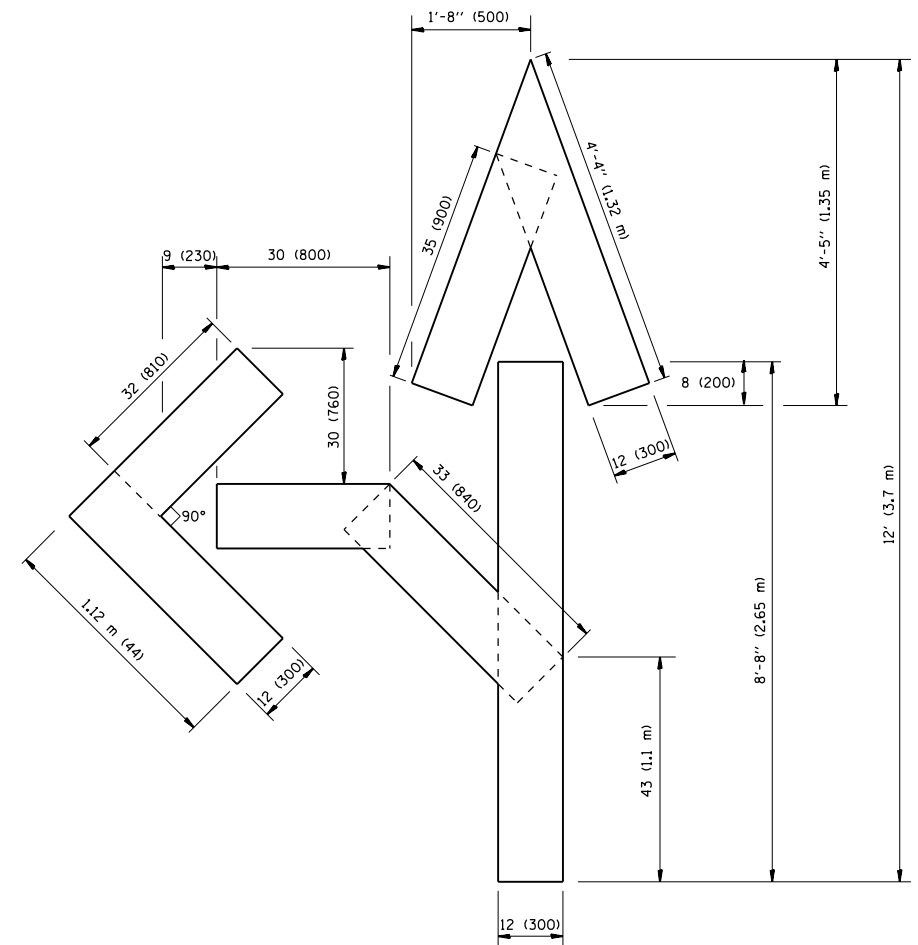
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

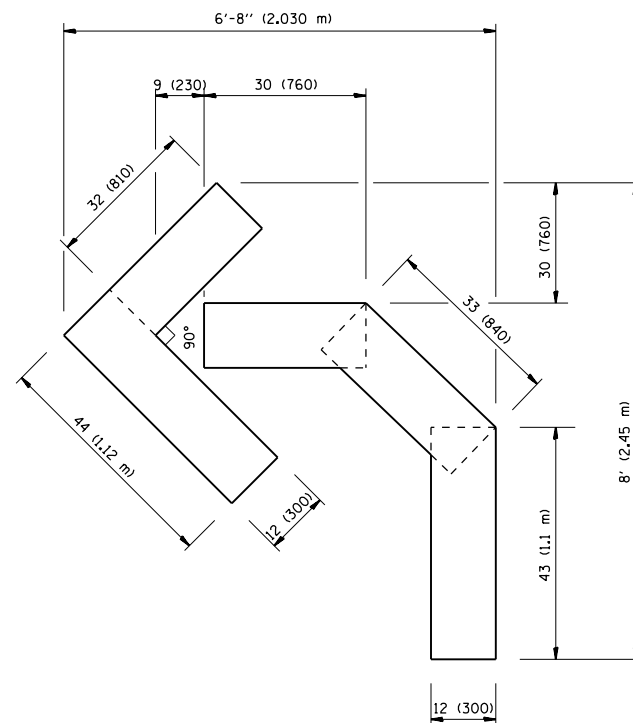
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	28
TC-14		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



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



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

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

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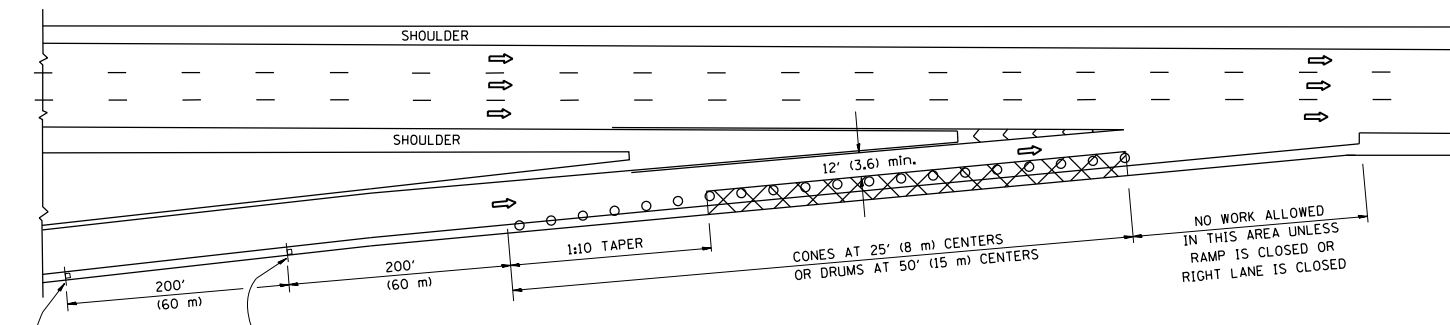
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

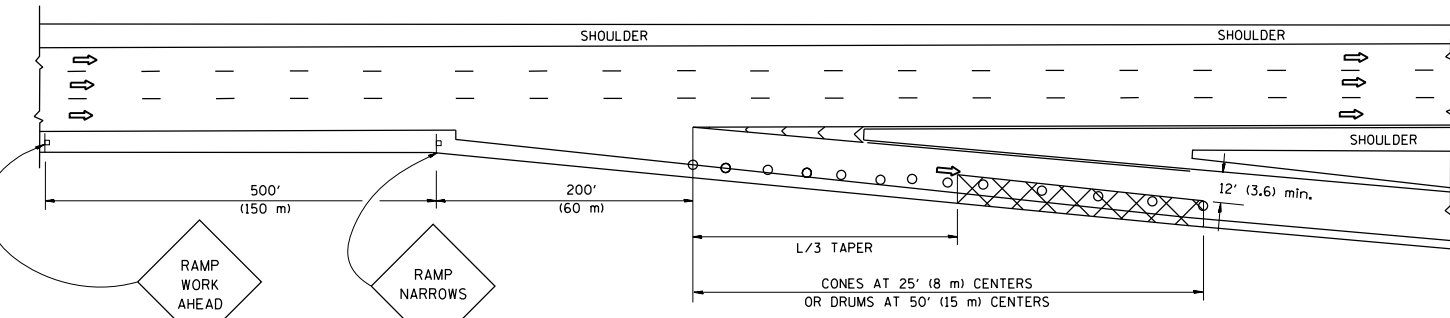
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-16		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

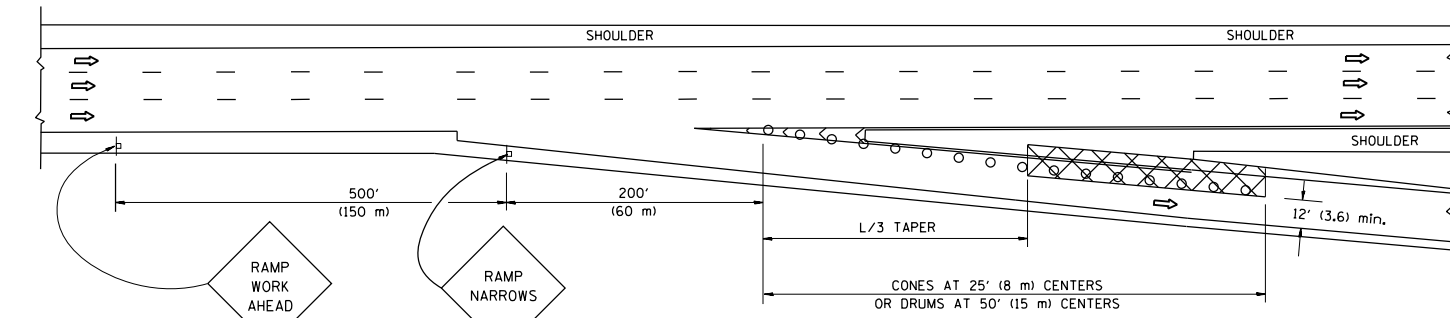
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

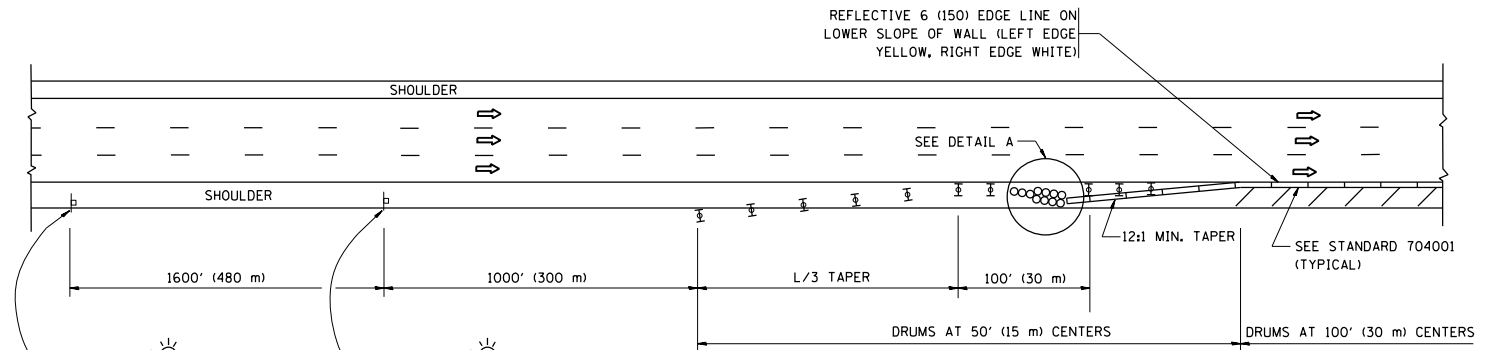
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 

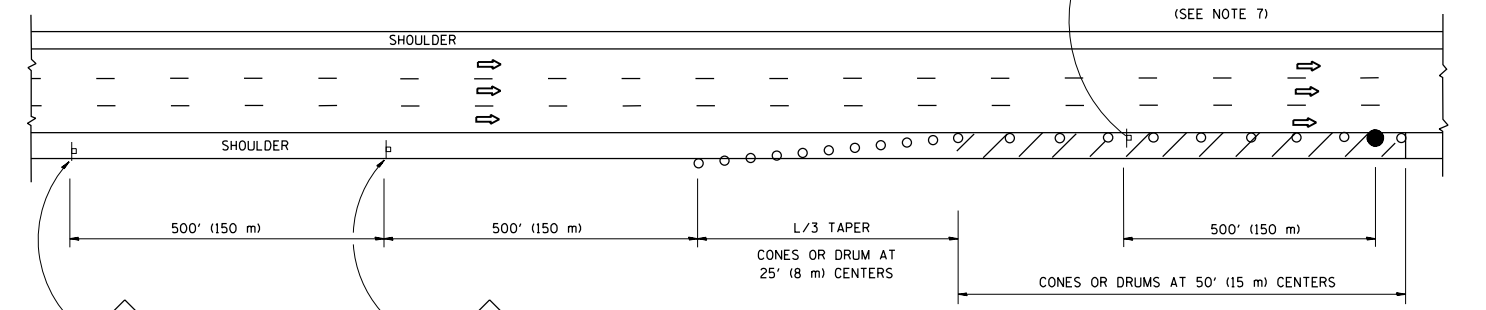
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH
	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)  
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

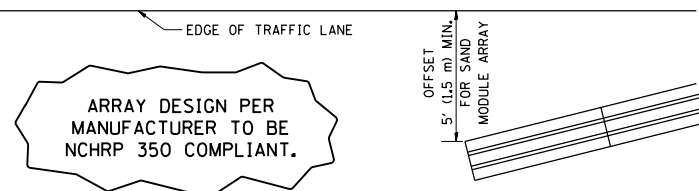


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"  
IMPACT ATTENUATOR, TEMPORARY  
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCRANCHMENT INTO THE LANE OPEN TO TRAFFIC.

THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

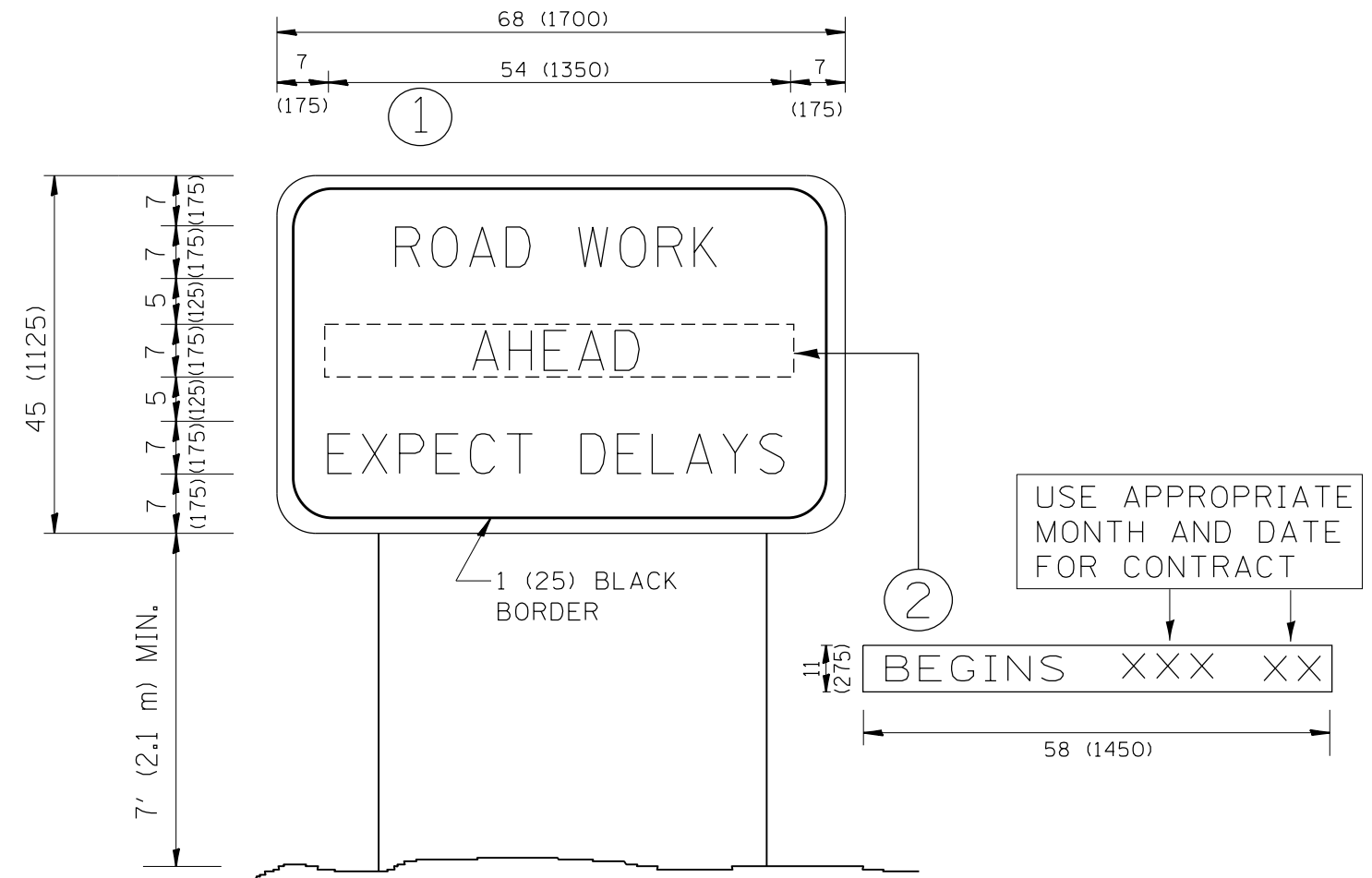
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	PLOT DATE = 2/14/2012	DATE - 11-96	REVISED - S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY			
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	30
TC-17		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

FILE NAME =	USER NAME = wilgreendp	DESIGNED -	REVISED - R. MIRS 09-15-97
ct:\pw\work\p\dot\wilgreendp\d0259819\DotStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 2/14/2012	DATE -	REVISED - C. JUCIUS 01-31-07

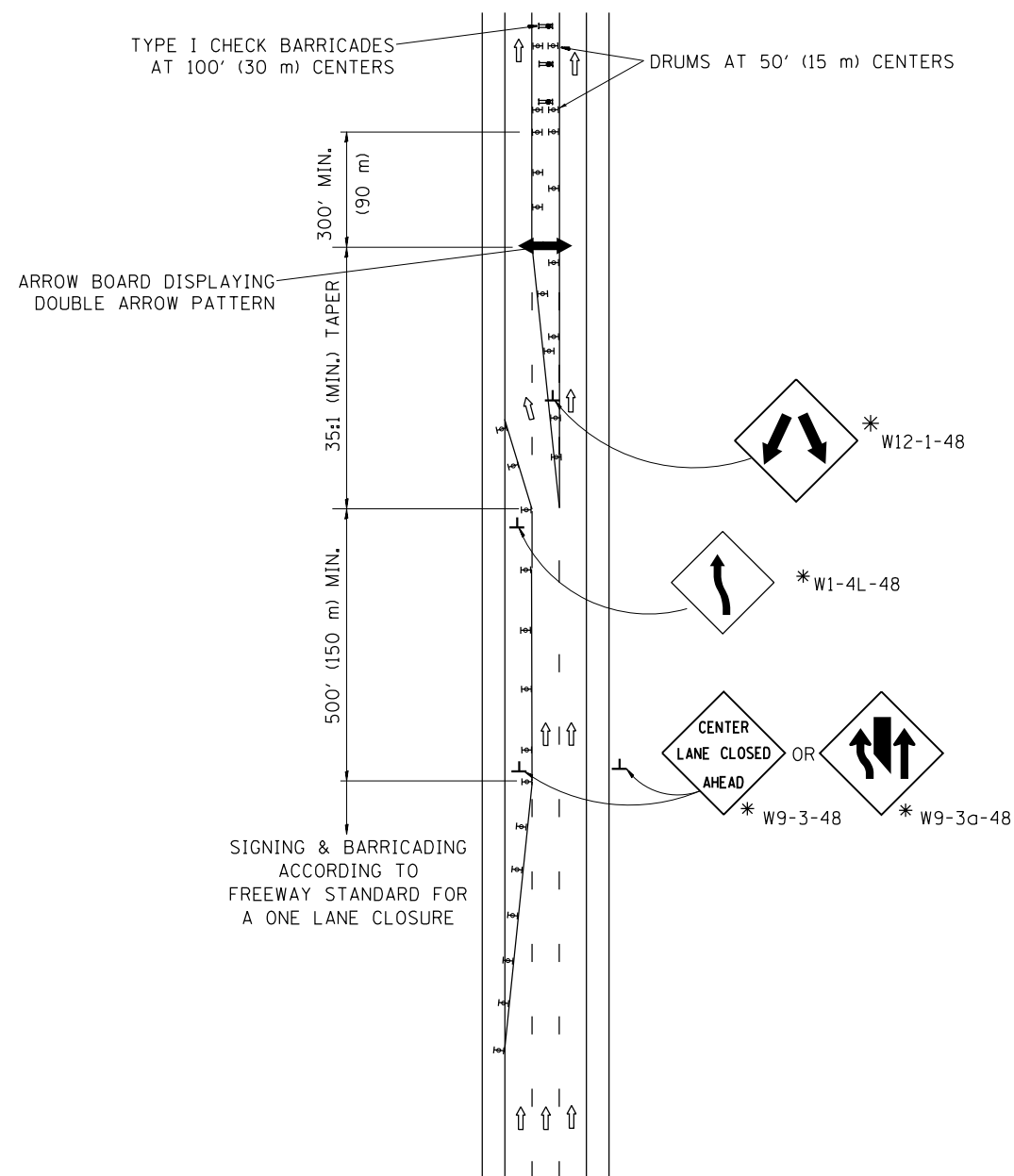
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

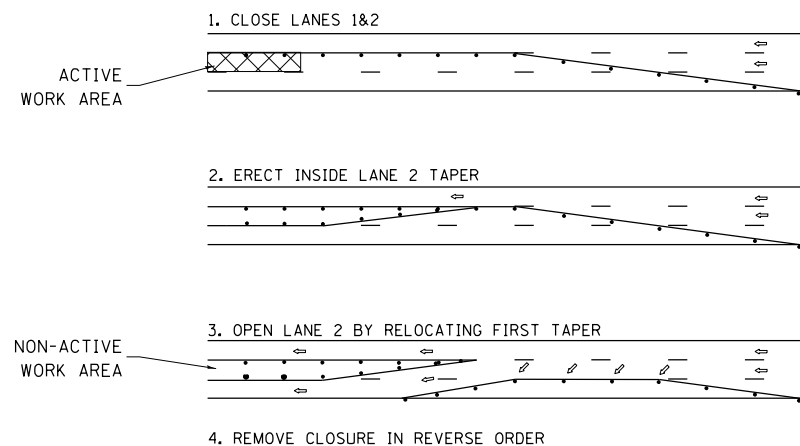
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	31
TC-22		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# CENTER LANE CLOSURE



### INSTALLATION SEQUENCE

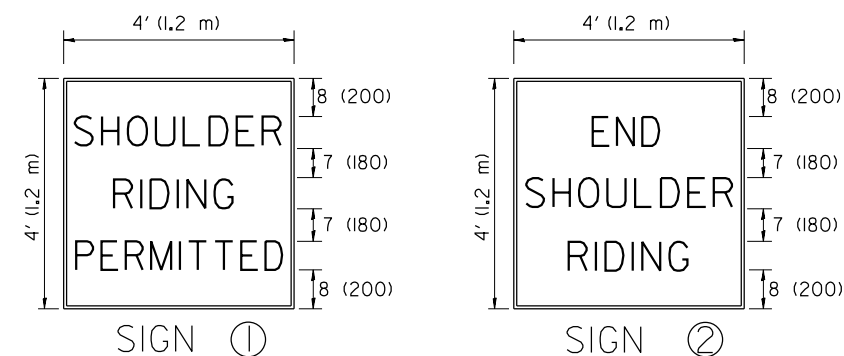
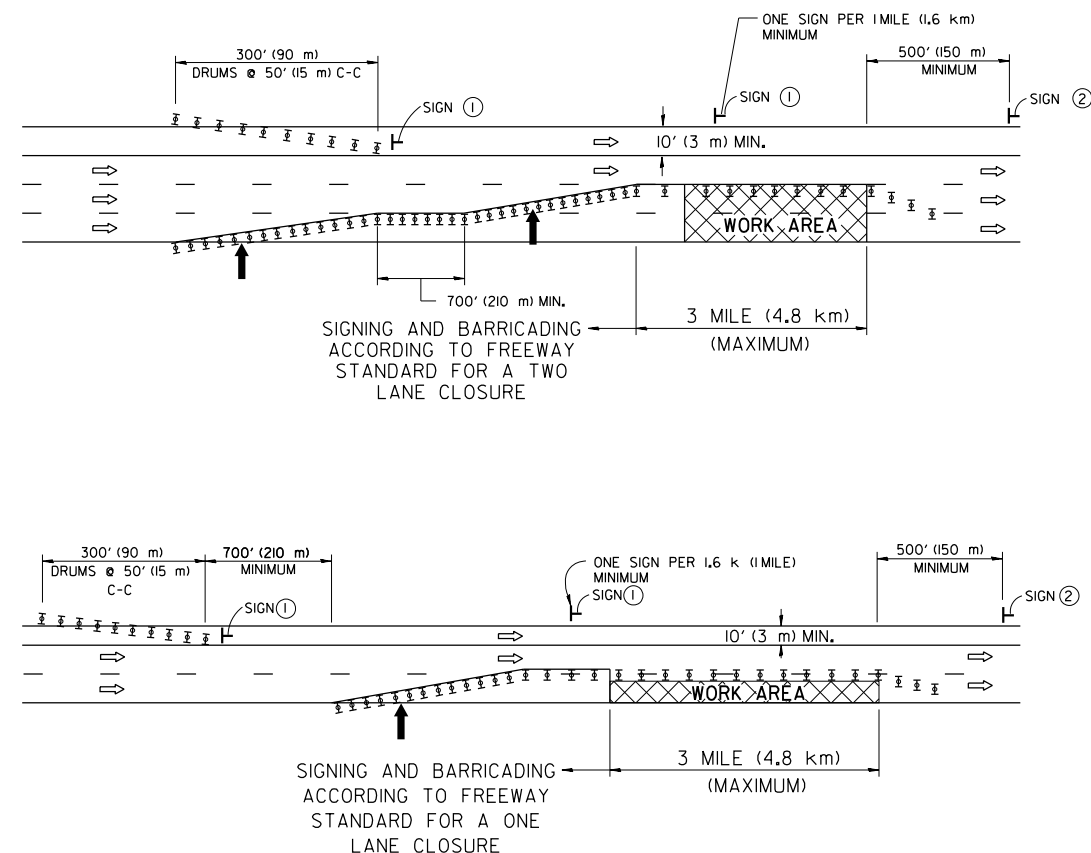


### NOTES

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

# SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES "C" LEGEND  
BLACK LEGEND  
WHITE REFLECT. BACKGROUND  
1(25) BORDER

### SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▣ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT \*
- ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

\* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME =	USER NAME = wilgreendp	DESIGNED -	REVISED - J.A.F. 04-03
ct:\pw\work\p1dot\wilgreendp\d0259819\Draw\std.dgn		DRAWN -	REVISED - S.P.B. 01-07
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - S.P.B. 12-09
	PLOT DATE = 2/14/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

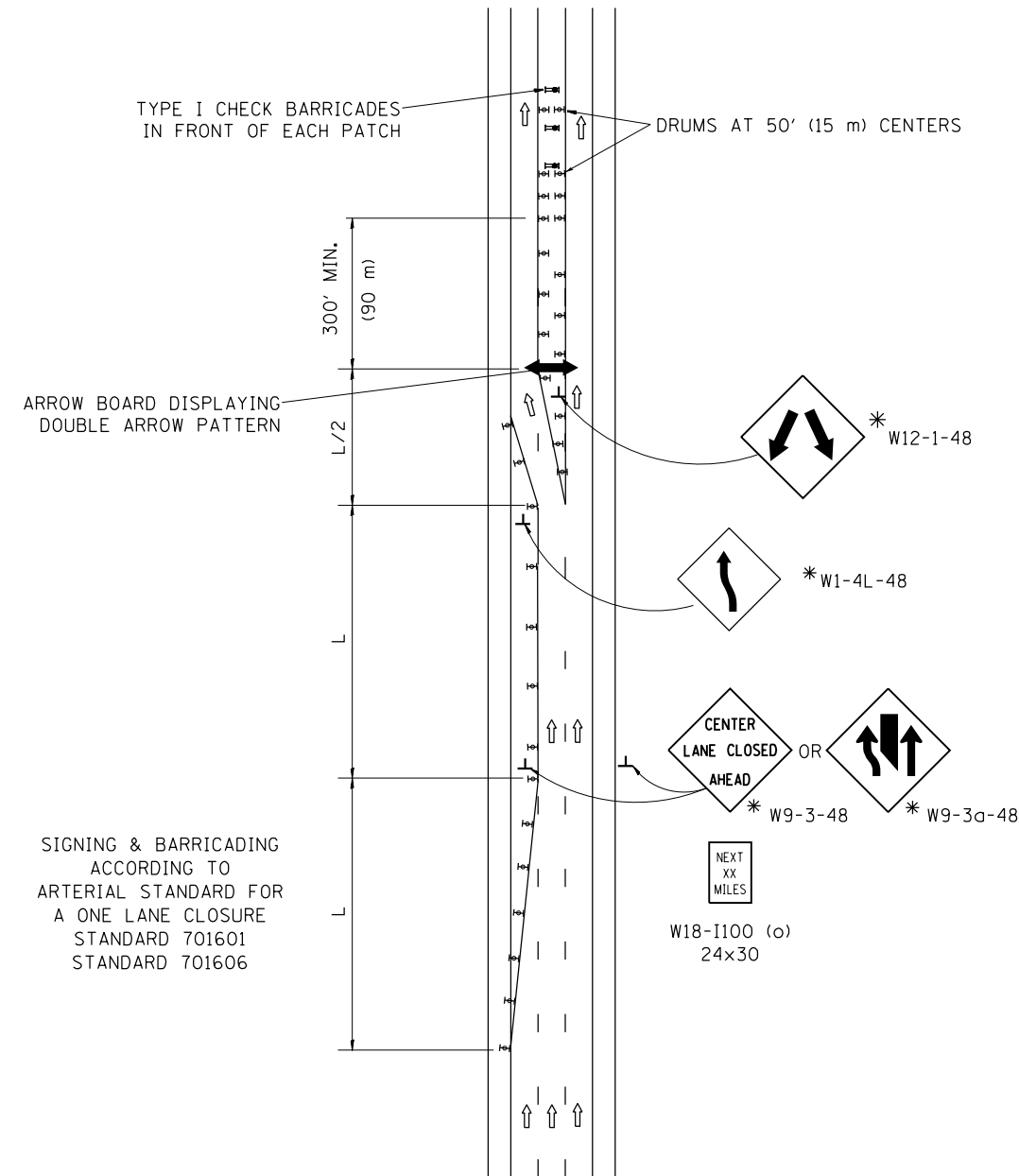
TRAFFIC CONTROL DETAILS FOR FREEWAY  
CENTER LANE CLOSURE SHOULDER LANE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	32
TC-25		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



# CENTER LANE CLOSURE



- SYMBOLS**
- ↑ DIRECTION OF TRAFFIC
  - ➔ ARROWBOARD
  - ▣ ACTIVE WORK AREA
  - ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT \*
  - ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT
- \* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

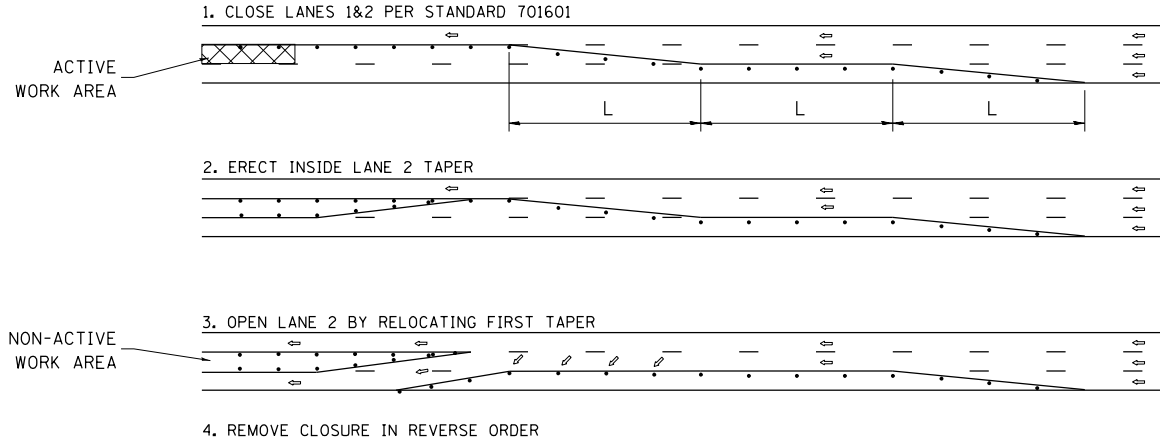
Calculate L as follows:

SPEED LIMIT

	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).  
S = Normal posted speed mph (km/h).

## INSTALLATION SEQUENCE



- NOTES**
- DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
  - CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

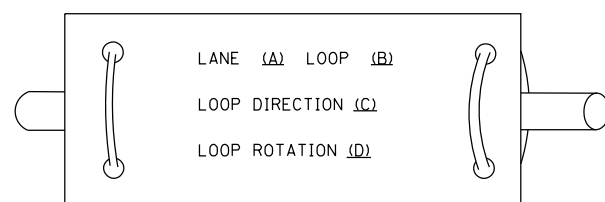
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = wilgreendp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR ARTERIAL CENTER LANE CLOSURE</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\wilgreendp\d0259819\Design.dgn		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	VAR.	2011-004-PP	COOK	34	33
		CHECKED -	REVISED -					<b>CONTRACT NO. 60N92</b>					
		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

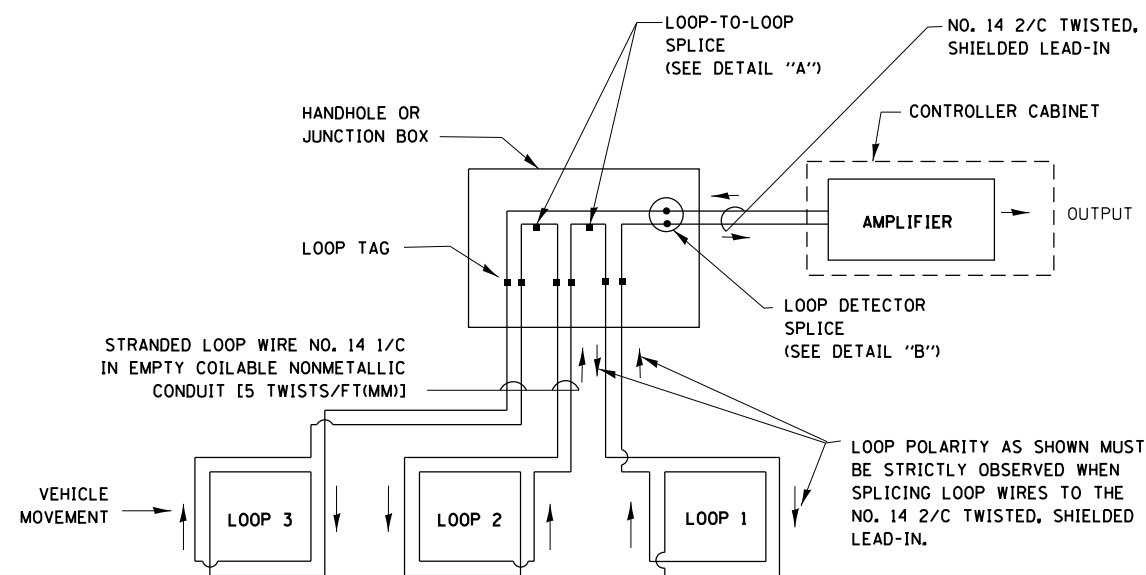
## LOOP DETECTOR NOTES

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

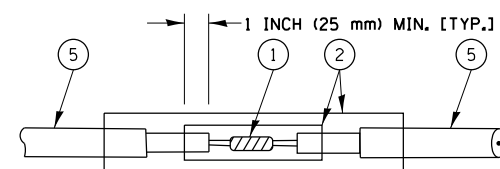


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

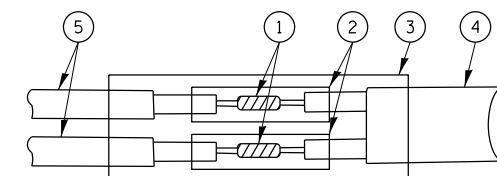


### DETECTOR LOOP WIRING SCHEMATIC

- 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.

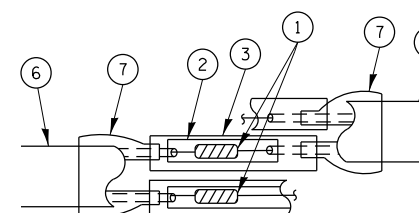


DETAIL "A"  
LOOP-TO-LOOP SPLICE

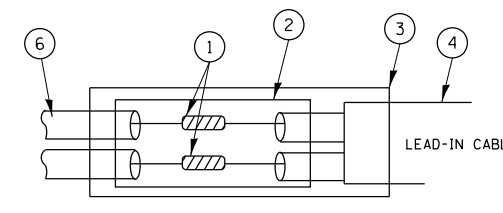


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

### TYPE I LOOP



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

### LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PREFORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = wilgreendp	DESIGNED - DAD	REVISED -
et:\pw\work\p\dot\wilgreendp\d0259819\DistStd.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 2/14/2012	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2011-004-PP	COOK	34	34
TS-05		CONTRACT NO. 60N92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				