06-13-14 LETTING ITEM 042

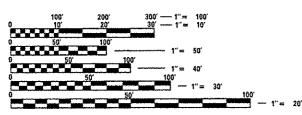
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN: THE VILLAGE OF CALUMET PARK THE VILLAGE OF DIXMOOR THE VILLAGE OF FORD HEIGHTS THE VILLAGE OF HAZEL CREST THE VILLAGE OF LANSING THE VILLAGE OF LYNWOOD THE VILLAGE OF MATTESON THE VILLAGE OF RIVERDALE THE VILLAGE OF SAUK VILLAGE THE VILLAGE OF SAUK VILLAGE THE VILLAGE OF SOUTH HOLLAND THE CITY OF BLUE ISLAND THE CITY OF CHICAGO STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION: 2014–031RS VARIOUS SOUTH EXPRESSWAY LOCATIONS INTERMITTENT RESURFACING COOK COUNTY C-91–307–14

FOR GENERAL LOCATION MAP, SEE SHEET NO. 4



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.

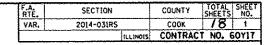
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: DANIEL WILGREEN (847) 705-4240 PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 60Y17

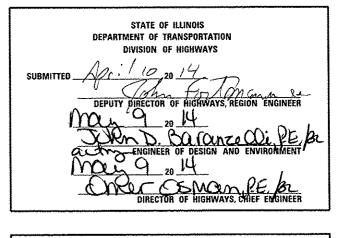
0

Ο









## PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### INDEX OF SHEETS

### STATE STANDARDS

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION	NO WORK SHALL BE PERFORMED ON
SACET NO.		<u>-1880 860 100</u>		THE CONTRACTOR WILL NOT BE ALL PROPERTY WITHOUT WRITTEN PERMI
1	TITLE SHEET	000001-06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS	ANY PAVEMENT MARKINGS AND RAIS
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	701400 - <i>0</i> 7	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY	RESURFACING OPERATIONS ON SIDE
3	SUMMARY OF QUANTITIES	701401 - <i>08</i>	LANE CLOSURE, FREEWAY/EXPRESSWAY	BEFORE BEGINNING ANY WORK, THE
4	GENERAL LOCATION MAP	701411 - 08	MULTI-LANE, TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMPS	EXISTING PAVEMENT MARKING LINES LOCATIONS CAN BE RE-ESTABLISHED
5	ROUTE INFORMATION	701426 - <i>OG</i>	MULTI-LANE, INTERMITTENT OR MOVING OPERATION	SHALL BE AS DIRECTED BY THE EN
6	SUMMARY OF INTERMITTENT RESURFACING SCHEDULE	701428	TRAFFIC CONTROL SETUP & REMOVAL FREEWAY/EXPRESSWAY	ALL INTERMITTENT RESURFACING LO
7-9	INTERMITTENT RESURFACING SCHEDULE	701445-05	TWO LANE CLOSURE FREEWAY/EXPRESSWAY	THE CONTRACTOR SHALL CONTACT
	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	701901-03	TRAFFIC CONTROL DEVICES	A MINIMUM OF 72 HOURS IN ADVAN
10				THE ENGINEER SHALL CONTACT JERI MINIMUM OF TWO (2) WEEKS PRIOR
11	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)			THE EXISTING ROADWAY TYPICAL S
12	FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)			ON TOP OF A TEN INCH CONCRETE
13-14	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)			ALL INTERMITTENT RESURFACING LO
15	FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)			RESURFACE ONLY. THE MINIMUM WIL
16	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS			THE COST OF ANY PARTIAL OR FUL
	ON FREEWAYS/EXPRESSWAYS (TC-18)			EXISTING 2 INCH HOT-MIX ASPHALT ARTICLE 109.04 OF THE STANDARD
17	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05, SHEET 2 OF 7)			
18 .	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING (TS-07)			ANY DETECTOR OR INDUCTION LOOP THE RESPONSIBILITY OF THE CONTE RESIDENT ENGINEER THIS INFORMAT
				NO PATCHING OR RESURFACING IS T CROSSING.
				WHEN MILLED PAVEMENT IS OPEN T

HOT-MIX ASPHALT MIXTURE REQ	UIREMENTS	QUALITY MANAGEMEN
MIXTURE TYPE	AIR VOIDS (%) @ N <sub>des.</sub>	PROGRAM (QMP)
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5MM), 2"	4% @ 90 CYR	QC/QA

OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (OC/QA)

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PC 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. OUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR OUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

File Name =	USER NAME = Auma	DESIGNED -	REVISED -						
cr\p=_work\p=1dot\aumm\d0382486\MMA-Exp	reseway-South.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	INDEX O	F SHEETS, S	TATE ST	ANDAR	IDS A
	PLOT SCALE = 100.8000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	L	·····			
Default	PLDT DATE = 4/9/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA,

#### GENERAL NOTES

NO WORK SHALL BE PERFORMED ON ANY BRIDGES OR ELEVATED STRUCTURES.

ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (OR TOLLWAY) MISSION FROM THE DEPARTMENT (OR ISTHA)

AISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND DE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

HE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE. ALL NES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE HED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS ENGINEER.

LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

I THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 ANCE OF BEGINNING WORK.

RENARD PERKINS, AREA TRAFFIC FIELD ENGINEER AT (708) 524-2145 DR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

. SECTION IS ASSUMED TO HAVE A 3 INCH HOT-MIX ASPHALT OVERLAY TE BASE.

LOCATIONS SHOWN IN THE PLANS ARE TWO (2) INCH MILL AND WIDTH FOR INTERMITTENT RESURFACING SHALL BE THREE (3) FEET.

FULL DEPTH PATCHING REQUIRED AFTER THE REMOVAL OF THE ALT SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH RD SPECIFICATIONS.

OPS DAMAGED BY MILLING SHALL BE REPLACED IN KIND. IT SHALL BE NTRACTOR TO QUANTIFY LOOP REPLACEMENTS NEEDED AND PROVIDE THE MATION PRIOR TO GRINDING OR REMOVAL.

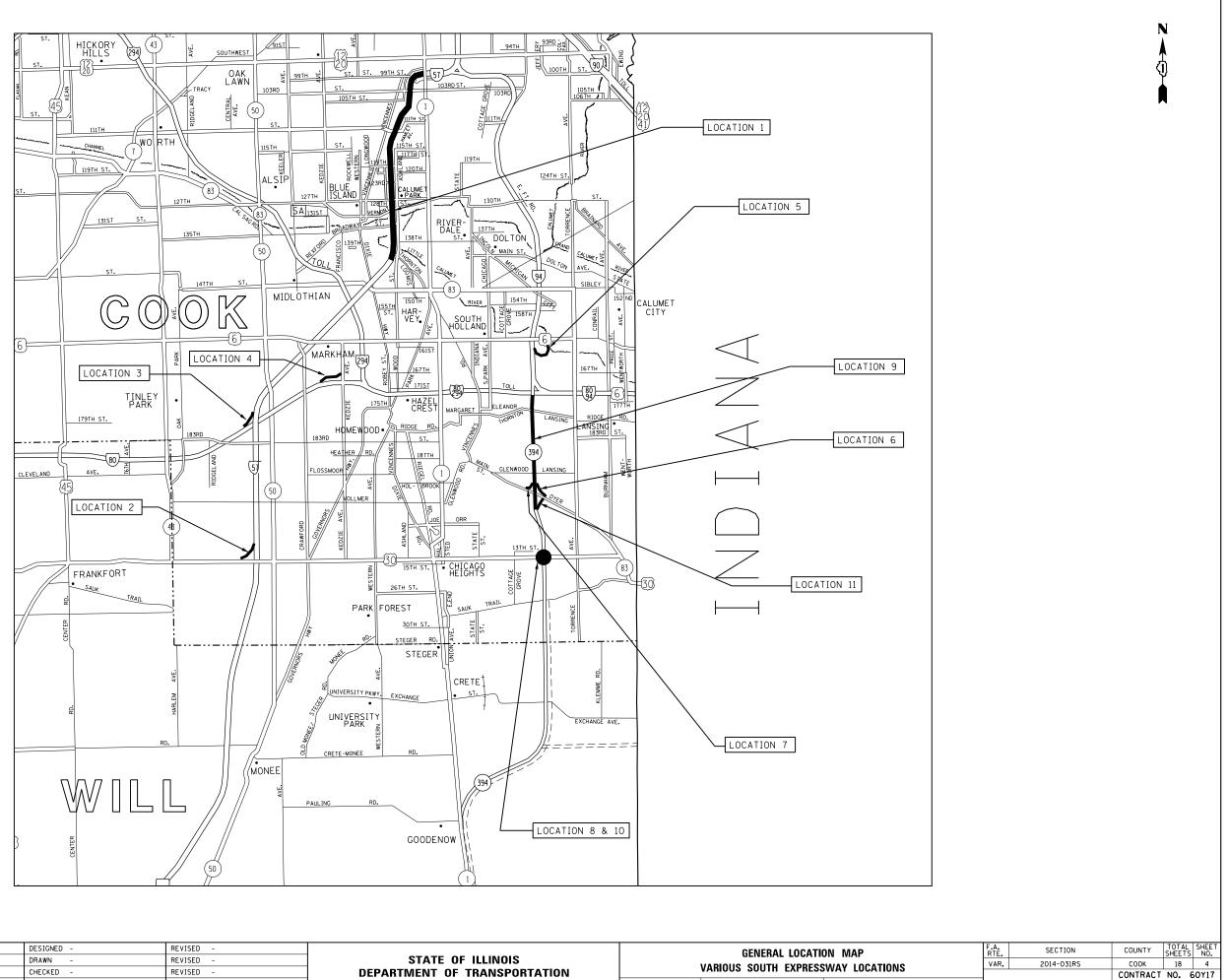
TO BE DONE WITHIN FIFTY (50) FEET OF ANY RAILROAD

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

		F.A. RTĘ.	SECTION	COUNTY	TOTAL	SHEET NO.
AND	GENERAL NOTES	VAR.	2014-031RS	COOK	18	2
				CONTRACT	NO. 6	50Y17
TA,	TO STA.		ILLINDIS FED.			

~				URBAN	1									
		SUMMARY OF QUANTITIES	<u></u>		100%	CONSTRU I	CTION TYPE	CODE				SUMMAR	Y OF QUANTITIES	1
	CODE NO	[TEM	UNIT	TOTAL QUANTITIES	STATE 0005						CODE NO		ITEM	UNIT
-	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	11	11					*	78000600	THERMOPLASTI	C PAVEMENT MARKING - LINE 12"	FOOT
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	212	212					*	78000650	THERMOPLASTI	C PAVEMENT MARKING - LINE 24"	FOOT
	1117, m 174pm/m14111 1111 1111 1111	JOINT				ngan fugura ang pagi panana ang ana ang anananana "pantaritana"	**************************************			*	78004220	PREFORMED PL	ASTIC PAVEMENT MARKING,	FOOT
	40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	792	792								AID - LINE 5"	
		COURSE, MIX "F", N90				uðarhaðindarðarðar skrava skravandiðar sa	***************************************			•	- -			
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	7070	7070					*	78100100	RAISED REFLE	CTIVE PAVEMENT MARKER	EACH
	50700705		EACH	5	5						78300200	RAISED REFLE	CTIVE PAVEMENT MARKER REMOVAL	EACH
	60300305	FRAMES AND LIDS TO BE ADJUSTED	CACO	2			(man-1)			*	88600600	DETECTOR LOO	P REPLACEMENT	FOOT
	67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	6	6					*******		0 f T 1 1 1 f 1 0 1 1 0 1 0 1		Bolmo
	67100100	MOBILIZATION	L SUM							X	x4060110 (7010410		ATERIALS (PRIME COAT) CAY TRAILER	POUND CALMO
	74100000		C 41 440							~	X7011015	TRAFFIC CONTR	NOL AND PROTECTION (EXPRESSWAYS)	L SUM
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1				-	*	X8730312	ELECTRIC CAB	LE IN CONDUIT. LEAD-IN, NO.	FOOT
	70300520	PAVEMENT MARKING TAPE. TYPE III 4"	FQOT	482	482						allan gayalgan san Quina da ka gina sa	18 4/C. TWIS	TED, SHIELDED	
	70301000	WORK ZONE PAVEMENT MARK ING REMOVAL	SO FT	161	161					*	X8850102	INDUCTION LO	OP	FDOT
*	78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	37	37	ution of an and an an and an					<i>1,</i>			
		LETTERS AND SYMBOLS	,								ار به از به از این ا این به این از این			
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4243	4243									
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1044	1044							الم		
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	50	50					1,000,000,000,000,000,000,000,000,000,0		W CDECTINTY	1750	
ļ	ILE NAME =		SIGNED -		REVISED REVISED				STATE OF	 [LL	INOIS	* SPECIALTY		OF QUANT
	afault	PLOT SCALE + 100.0000 1/ 10. CH	ECKED - TE -		REVISED				NENT OF T				SCALE: SHEET OF	SHEETS STA

	I <u>R BAN</u>			C	ONSTRUCT	ON TYPE	CODE	
0.	TOTAL JANTITIES	100% STATE						
		0005						
	50	50	n en antigen an				,	ngéhana béjanak panadyan 5175 (199
	- nononie imperantinatione (minist		00000000000000000000000000000000000000		annana tarata da da arte da tar			nga jumakan kakala kang dalakan kang kana ka
	24	24		.)				
	ormal as im product d'anamorphores.	**************************************				ng baranga (kating (kibatina kita	1 ay baaya <sup>a a</sup> ka badhadhar Maddinasta ka aksama a	·····
	2130	2130			yangang tyak petrio yandanang jagar 144	and and a start of the start of	1 / 14 (m)	1
				94 mail 10 march 10				
	424	424	-					
	- Mar - almatest older gebrin fransisk klifter	an an an an an Anglan an Passan Anna	and a garran <sup>2</sup> is the advance gare		and a second		2	
	424	424				· · · · · · · · · · · · · · · · · · ·		
	50	50		.,	, , , , ,,,	1997 (1999) - 1999 (1997) - 1997 (1997) - 1997 (1997) - 1997 (1997)		
	******	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		- 1	and for an office of a second s	i yan yang mga magi mada Matana Satana Katipata	alarhar ta territori fan felagon ha tana aren t
	3182	3182			an Tugana gangan manal nyaéta <sup>an</sup> ahit Makaléta Ak		11119900-11119000-1111900-1111900-1111900-1111900-	
_								
2		1			n , /uu dil 11 alfo ilado tari uusi asta 11 uut p01 f		wa	
	<b>1</b> ,er*an manan,*anan yanya kanyan,*ana mba	1	1994 an 1899 (2014) <sup>an</sup> Santa an		1/11/10 <sup>-10</sup> /11/11/11/11/11/11/11/11/11/11/11/11/11	11,17,17,17,17,17,17,17,17,17,17,17,17,1		2.77.7.1.1 Exceloration (address) and a filler
	*******							
	300	300	·····					
	te dege leggt and for the second and and a feature			National Sciences	- 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 -			
			· ,	·\		una a d'Allan anna gu d'ach ann d'a fuailteach d'Mhann	n faat halling staas aan aan and staal and	-1-10 <sup>111111111111111111111111111111111</sup>
-	100	100						
					a na na gangtaga jang tang tan sa jant a sa	ann an Eisennad se sun a sun eisen ar san a	1111 yuut oo taasaa taabaa da ti gaa 1000 waxaa aha	a
	د «مورسه و و موادو در ۱۹ ۵ در مواد و مراد م				a" "Ball" Michael Bachaeler M" McAll Provide 1		LANSON, 1 1000000 1000000 10000000000	
				******				
	<b>1.7</b> .1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1						2 1	
	n,,)gafann agusgastjanna kjangggggakatit <u>s</u> ti							
		1 - 14 - 15 AN	<sup>0</sup> 000° - A. A. A. (1)	, 1, <b>1</b> - , 1, 1 - , 1, 2, 30	an a			and 10
				F.A. RTÉ.	Rey	TION	COUNTY	TOTAL SHEET SHEETS NO.
FITIE	ES			RTE. VAR.	.1	031RS	COOK	18 3
Α.	ĩ	O STA.		<u> </u>		ILLINDIS FED. AL	0 PROJECT	



									_
FILE NAME =	USER NAME = Aumm	DESIGNED -	REVISED -		í l	CI		L LOCATIO	a
c:\pw_work\pwidot\aumm\d0382486\HMA-Exp	ressway-South.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	1				-
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1	VARIOUS S	SUUTH	EXPRESS	Л
Default	PLOT DATE = 4/9/2014	DATE –	REVISED -		SCALE:	SHEET	OF	SHEETS	Ī

IS STA. TO STA. ILLINOIS FED. AID PROJECT

	SUMMARY - SOUTHERN EXPRESSWAY ROUTES	COUNTY	CITIES/VILLAGES	TOWNSHIPS	SPEED LIMIT	EXISTING ADT (YEAR)
LOC.1	I-57 (HALSTED ST. TO 144TH ST.)	соок	BLUE ISLAND, CALUMET PARK, CHICAGO, DIXMOOR, AND RIVERDALE	CALUMET, DIXMOOR, AND LAKE	55 MPH	124,700 (2013)
LOC.2	SB I-57 (TO US 30 WB, SB TO WB EXIT RAMP )	СООК	MATTESON	RICH	N/A	800 (1987)
LOC.3	I 57 SB TO I 80 WB (INTERCHANGE SB TO WB LANE 2,3)	СООК	UNINCORPORATED	BREMEN	N/A	15,000 (2013)
LOC.4	WB I-80 (ENTRANCE RAMP FROM KEDZIE AVE.)	СООК	HAZEL CREST	BREMEN	N/A	7,700 (2013)
LOC.5	I-94(BISHOP FORD) (EB 159TH STREET ENTRANCE RAMP)	СООК	SOUTH HOLLAND	THORNTON	N/A	6,600 (2002)
LOC.6	NB IL 394 (GLENWOOD DYER RD ENTRANCE RAMP)	СООК	LYNWOOD	BLOOM	N/A	3,700 (1984)
LOC.7	SB IL 394 (GLENWOOD DYER RD EXIT RAMP)	СООК	UNINCORPORATED	BLOOM	N/A	4,100 (1984)
LOC.8	IL 394 (US 30 CLOVER RAMPS )	соок	FORD HEIGHTS, SAUK VILLAGE	BLOOM	N/A	1,100 (1984)
LOC.9	SB IL 394 ( I-80 TO JOE ORR ROAD)	соок	LANSING, LYNWOOD	BLOOM, THORNTON	55 MPH	72,300 (2013)
LOC.10	IL 394 (US 30 LONG ARM RAMPS )	соок	FORD HEIGHTS, SAUK VILLAGE	BLOOM	N/A	3,200 (1984)
LOC.11	NB IL 394 (GLENWOOD DYER RD EXIT RAMP)	СООК	LYNWOOD	BLOOM, THORNTON	N/A	1,800 (1984)

FILE NAME =	USER NAME = Aumm	DESIGNED -	REVISED -				ROUTE	E INFORMATION		F.A. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\aumm\d0382486\HMA-Ex	ressway-South.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		VADIOUS		EXPRESSWAY LO	CATIONS	VAR.	2014-031RS	СООК	18 5
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		VANIOUS	30010	EAFRESSWAT LU	CATIONS			CONTRACT	T NO. 60Y17
Default	PLOT DATE = 4/9/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

		HMA 2" MILL
	SUMMARY - SOUTHERN EXPRESSWAY ROUTES	& RESURFACE
		(SY)
LOC.1	I-57 (HALSTED ST. TO 144TH ST.)	3,683
LOC.2	SB I-57 (TO US 30 WB, SB TO WB EXIT RAMP )	541
LOC.3	I 57 SB TO I 80 WB (INTERCHANGE SB TO WB LANE 2,3)	64
LOC.4	WB I-80 (ENTRANCE RAMP FROM KEDZIE AVE.)	563
LOC.5	I-94(BISHOP FORD) (EB 159TH STREET ENTRANCE RAMP)	67
LOC.6	NB IL 394 (GLENWOOD DYER RD ENTRANCE RAMP)	221
LOC.7	SB IL 394 (GLENWOOD DYER RD EXIT RAMP)	30
LOC.8	IL 394 (US 30 CLOVER RAMPS )	404
LOC.9	SB IL 394 ( I-80 TO JOE ORR ROAD)	60
LOC.10	IL 394 (US 30 LONG ARM RAMPS )	1,364
LOC.11	NB IL 394 (GLENWOOD DYER RD EXIT RAMP)	73
	SOUTHERN EXPRESSWAY TOTAL =	7070
		SY

FILE NAME =	USER NAME = Aumm	DESIGNED -	REVISED -		SUM	MARY OF	INTERM	UTTENT R	RESUR	FACING SCHEDULE	F.A. RTF	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\aumm\d0382486\HMA-Ex	ressway-South.dgn		REVISED -	STATE OF ILLINOIS						LOCATIONS	VAR.	2014-031RS	СООК	18 6
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			300111	-	JUAI	LUCATIONS			CONTRACT	T NO. 60Y17
Default	PLOT DATE = 4/9/2014	DATE –	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

ROUTE	I-57 (Halsted Street to 1	44th Street)					
10012.							
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAI
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WDTH	LENGTH	(SQ FT)	(SQ YE
128th Street		NB	2	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	RAMP	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	3	13	6	78	9
		NB	3	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	3	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	3	13	6	78	9
		NB	2	13	6	78	9
		NB	3	13	6	78	9
		NB	3	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78 78	9
		NB		13	6		9
		NB	RAMP	13	6	78	9
		NB NB	1	13 13	6 6	78 78	9 9
		NB	1	13	6	78	9
		NB	3	13	6	78	9
		NB	1	13	6	78	9
		NB	1	13	6	78	9
		NB	1	13	6	78	9
		NB	2	13	6	78	9
	Halsted Street	NB	3	13	6	78	9
Halsted Street		SB	1	13	6	78	9
		SB	2	13	6	78	9
		SB	3	13	6	78	9
		SB	2	13	6	78	9
		SB	1	13	6	78	9
		SB	1	13	6	78	9
		SB	1	13	6	78	9
		SB	1	13	6	78	9
		SB	2	13	6	78	9
		SB	3	13	6	78	9
		SB	1	13	6	78	9

ROUT	E: I-57 (Halsted Street to 144	th Street)	(Co	ntinued)			
CROS	S STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIF
			NO.	PATCH	PATCH	AREA	AREA
FROM	ТО	(EB/WB)					
		(NB/SB)	(1, 2, 3)	WDTH	LENGTH	(SQ FT)	(SQ YD
		SB	1	13	6	78	9
		SB	1	13	6	78	9
		SB	1	13	6	78	9
		SB	1	13	6	78	9
		SB	1	13	8	104	12
		SB	2	13	8	104	12
		SB	3	13	8	104	12
		SB	2	13	6	78	9
		SB	1	13	6	78	9
		SB	2	13	6	78	9
		SB	2	13	8	104	12
		SB	3	13	8	104	12
		SB	1	13	8	104	12
		SB	3	13	8	104	12
		SB	1	13	15	195	22
		SB	1	13	10	130	15
		SB	1	13	6	78	9
		SB	1	13	6	78	9
		SB	2	13	8	78	9
		SB	1	13	8	78	9
		SB	1	13	8	78	9
		SB SB	2	13		78	
					8		9
		SB	2	13	6	78	9
		SB	1	12	10	120	13
		SB	LL	3	500	1500	167
		SB	1	12	10	120	13
		SB	LL	3	100	300	33
		SB	1	12	10	120	13
		SB	LL	3	2240	6720	747
		SB	LL	3	200	600	67
		SB	LL	3	720	2160	240
		SB	1	12	10	120	13
		SB	LL	3	480	1440	160
		SB	1	12	10	120	13
		SB	1	12	10	120	13
		SB	2	12	10	120	13
		SB	3	12	10	120	13
		SB	LL	3	100	300	33
		SB	1	12	10	120	13
		SB	1	12	10	120	13
		SB	LL	3	560	1680	187
		SB	1	12	10	120	13
	1	SB	1	12	10	120	13
		SB	1	12	10	120	13
		SB		3	1400	4200	467
	-	SB	3	12	1400	120	13
		SB	LL	3	480	1440	160
		SB	LL	3	320	960	107
		SB	LL	3	1000	3000	333
	144th Street	SB	LL	3	200	600	67
		TOTALS:			8937		3683
					FT		SY

FILE NAME =	USER NAME = Aumm	DESIGNED -	REVISED -			INTERM	ITTENT	RESURF	ACING SCHEDU	JLE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\aumm\d0382486\HMA-Ex	ressway-South.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS							VAR.	2014-031RS	соок	18 7
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		1-57	(HALS	1ED 21	TO 144TH ST)		-		CONTRACT	NO. 60Y17
Default	PLOT DATE = 4/9/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEET	S STA.	TO STA.		ILLINOIS FED. A	AID PROJECT	

ROUTE:	SB I-57 (To US 30 WB, SB	to WB Exit R	lamp)				
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WDTH	LENGTH	(SQ FT)	(SQ YD)
SB I-57 Ramp		SB	Ramp	12	6	72	8
		SB	Ramp	20	150	3000	333
		SB	Ramp	16	10	160	18
		SB	Ramp	16	40	640	71
	WB US 30	SB	Ramp	10	100	1000	111
		TOTALS:			306		541
					FT		SY

ROUTE:	I-94 (Bishop Ford) (EB 159	th Street Entra	nce Ram	p)			
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)
159th EB Entrance	100' into Ramp	NB	1	15	40	600	67
		TOTALS:			40		67
					FT		SY

DOUTE				2)			
ROUTE:	I-57 SB TO I-80 WB (Interc	nange SB to v	VB lane 2	, 3)			
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)
I-57		SB	2	12	6	72	8
		SB	2	12	10	120	13
		SB	3	12	6	72	8
		SB	3	12	10	120	13
		SB	3	12	10	120	13
	I-80	SB	3	12	6	72	8
		TOTALS:			48		64
					FT		SY

ROUTE:	NB IL 394 (Glenwood Dyer	Road Entrance	e Ramp)				
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)
WB Glenwood Dyer Road		Joint	shld/rt	4	150	600	67
			ramp	24	15	360	40
			ramp	20	15	300	33
			ramp	16	10	160	18
			ramp	16	6	96	11
			ramp	6	25	150	17
	NB IL 394		ramp	16	20	320	36
		TOTALS:			241		221
					FT		SY

ROUTE:	WB I-80 (Entrance Ramp fr	om Kedzie Av	enue)				
00000	OTOFET	DIDEOTION	=				
CRUSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WDTH	LENGTH	(SQ FT)	(SQ YD)
Kedzie Avenue		WB	Ramp	16	200	3200	356
		WB	Ramp	6	50	300	33
		WB	Ramp	16	28	448	50
		WB	Ramp	16	10	160	18
		WB	Ramp	16	10	160	18
		WB	Ramp	16	20	320	36
		WB	Ramp	16	20	320	36
	I-80	WB	Ramp	16	10	160	18
		TOTALS:			348		563
					FT		SY

ROUTE:	SB IL 394 (Glenwood Dyer	Rd Exit Ramp	)				
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)
SB 394	Glenwood Dyer Exit Ramp	WB	Ramp	18	15	270	30
		TOTALS:			15		30
					FT		SY

FILE NAME =	USER NAME = Aumm	DESIGNED -	REVISED -			INTER	MITTENT	RESURFACING SCH	FDIJI F	F.A.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\aumm\d0382486\HMA-Ex	ressway-South.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				-80, I–94, NB & SB		VAR.	2014-031RS	СООК	18 8
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		30 1-0	7, WD I-	-00, I-34, ND & 3D	IL 354			CONTRAC	CT NO. 60Y17
Default	PLOT DATE = 4/9/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

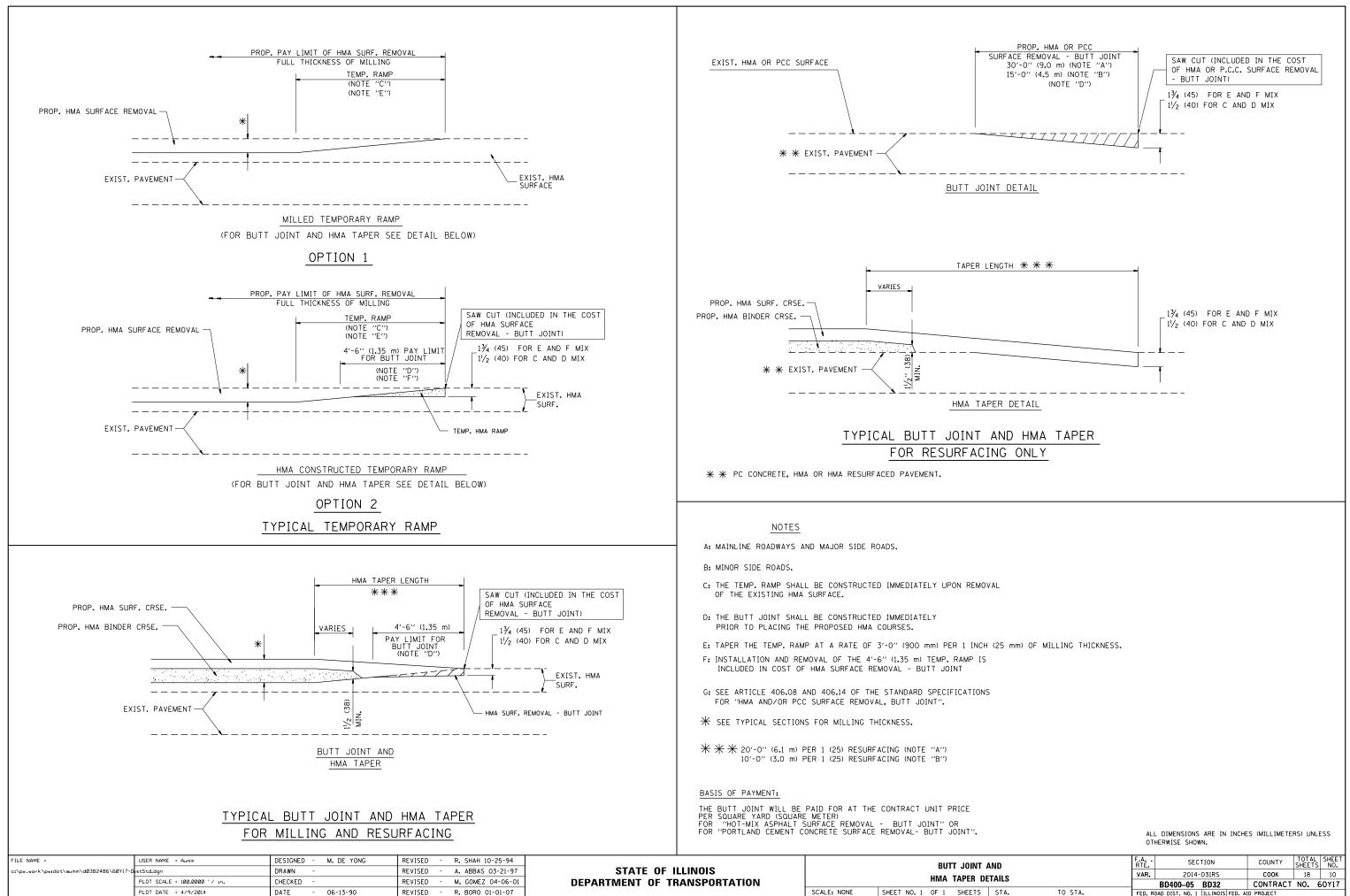
DOLIT							
ROUT	E: IL 394 (US 30 Clover Ram	os)					
CROS	S STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAI
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YE
SB IL 394			ramp	16	20	320	36
			ramp	16	10	160	18
			ramp	16	10	160	18
	EB US 30		shld	6	100	600	67
						0	0
						0	0
EB US 30			shld	6	50	300	33
			shld	6	50	300	33
			shld	6	100	600	67
			shld	6	25	150	17
	NB IL 394		ramp	16	15	240	27
						0	0
						0	0
NB IL 394			shld	6	25	150	17
	WB US 30		ramp	6	10	60	7
						0	0
						0	0
WB US 30	SB IL 394		shld	6	100	600	67
		TOTALS:			515		404
					FT		SY

ROUTE:	IL 394 (US 30 Long Arm Ra	amps)					
	STREET	DIRECTION	LANE	PAVEMENT		REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)
SB IL 394			Rt Shldr	6	200	1200	133
			Rt Shldr	6	75	450	50
			Rt Shldr	6	120	720	80
	WB US 30		Ramp	16	150	2400	267
						0	0
						0	0
EB US 30			Rt Shldr	8	70	560	62
			Rt Shldr	8	50	400	44
	SB IL 394	Joint	Rt Shldr,1	6	100	600	67
						0	0
						0	0
NB IL 394			Rt Shldr	8	50	400	44
			Rt Shldr	8	75	600	67
			Rt Shldr	8	100	800	89
			Rt Shldr	8	200	1600	178
	EB US 30		Rt Shldr	8	45	360	40
						0	0
						0	0
WB US 30			Ramp	20	15	300	33
			Ramp	20	8	160	18
			Ramp	20	6	120	13
			Ramp	20	10	200	22
			Ramp	16	6	96	11
			Ramp	16	10	160	18
			Ramp	16	6	96	11
	NB IL 394	Joint	Rt Shldr, 1	6	175	1050	117
		TOTALS:			1471		1364

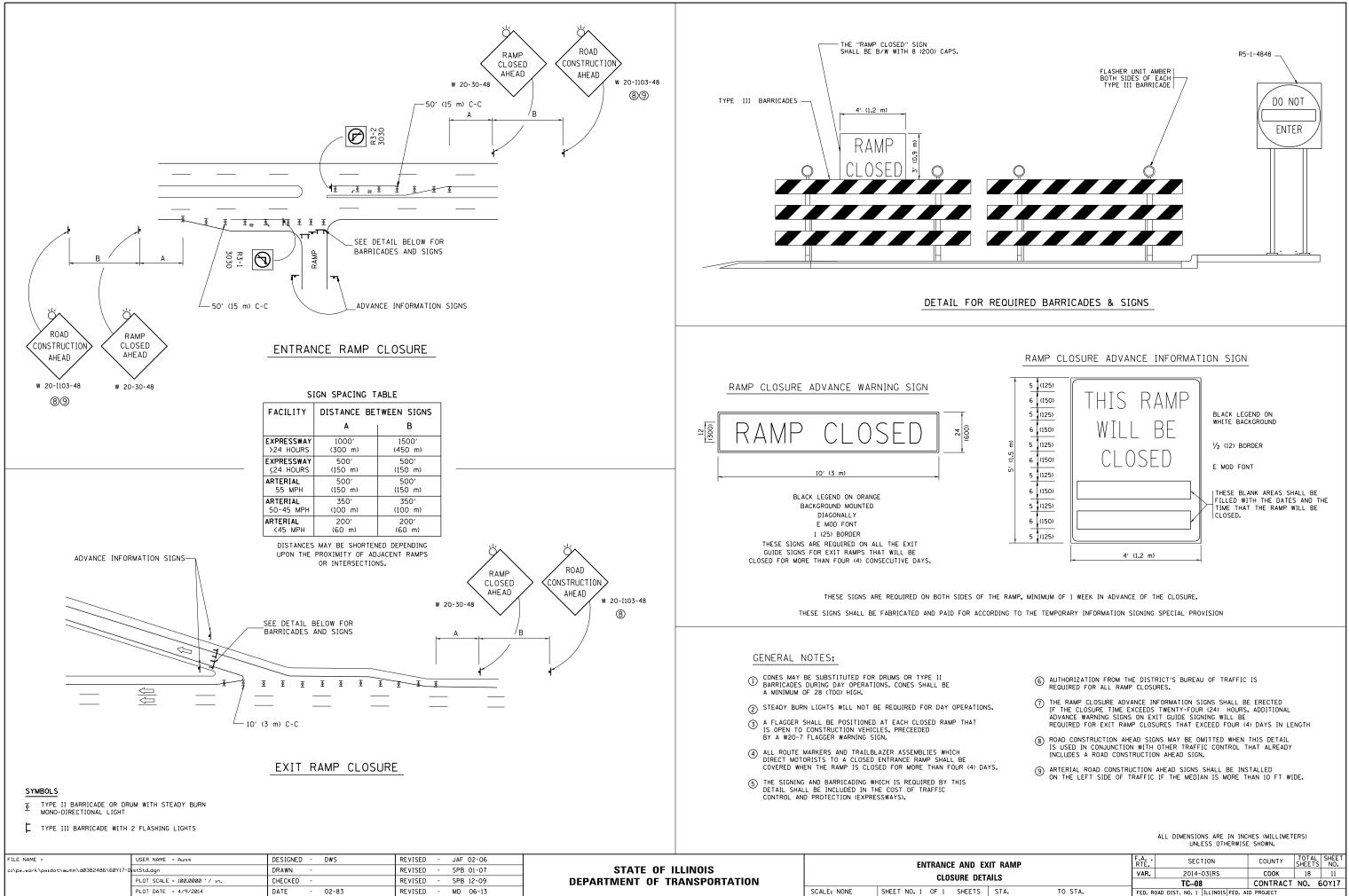
ROUTE:	SB IL 394 ( I-80 to Joe Orr	Road)					
CROSS STREET		DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WDTH	LENGTH	(SQ FT)	(SQ YD)
I-80		SB	1	12	6	72	8
	Glenwood Lansing Road	SB	1	12	6	72	8
Glenwood Lansing Road	Glenwood Dyer Road						
Glenwood Dyer Road		SB	1	12	25	300	33
	Joe Orr Road	SB	1	12	8	96	11
		TOTALS:			45		60
					FT		SY

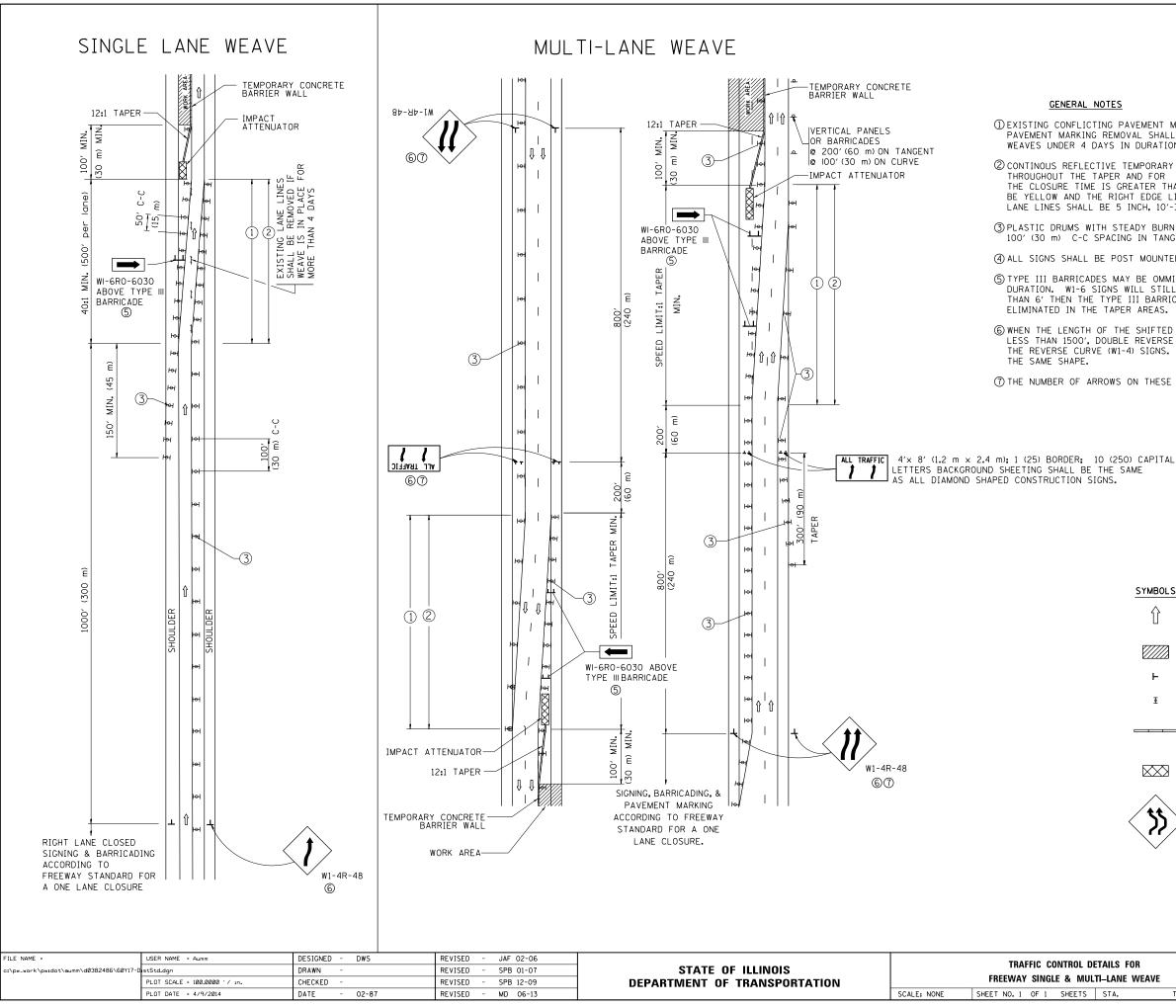
ROUTE:	NB IL 394 (Glenwood Dyer	Road Exit Rar	np)				
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	TO	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1,2,3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)
NB IL 394			Ramp	6	10	60	7
	EB Glenwood Dyer Road	Joint	1,Rt Shldr	6	100	600	67
		TOTALS:			110		73
					FT		SY

FILE NAME =	USER NAME = Aumm	DESIGNED -	REVISED -		INTERMITTENT RESURFACING SCHEDULE			F.A.	SECTION	COUNTY	TOTAL	SHEET	
c:\pw_work\pwidot\aumm\d0382486\HMA-Exp	ressway-South.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						2014-031RS	соок	18	9
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 394			_		CONTRAC	T NO.	60Y17	
Default	PLOT DATE = 4/9/2014	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED.	IS FED. AID PROJECT				



AND DETAILS		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
		2014-	031RS		СООК	18	10
		BD400-05	BD32		CONTRACT	NO. 6	50Y17
STA. TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED. A	ID PROJECT		





① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

(3) PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

(4) ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

(5) TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE

(6) WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE

(7) THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

#### SYMBOLS

- $\hat{\Pi}$ DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL ₫ STEADY BURNING LIGHT

TEMPORARY CONCRETE BARRIER WALL

 $\mathbb{X}$ 

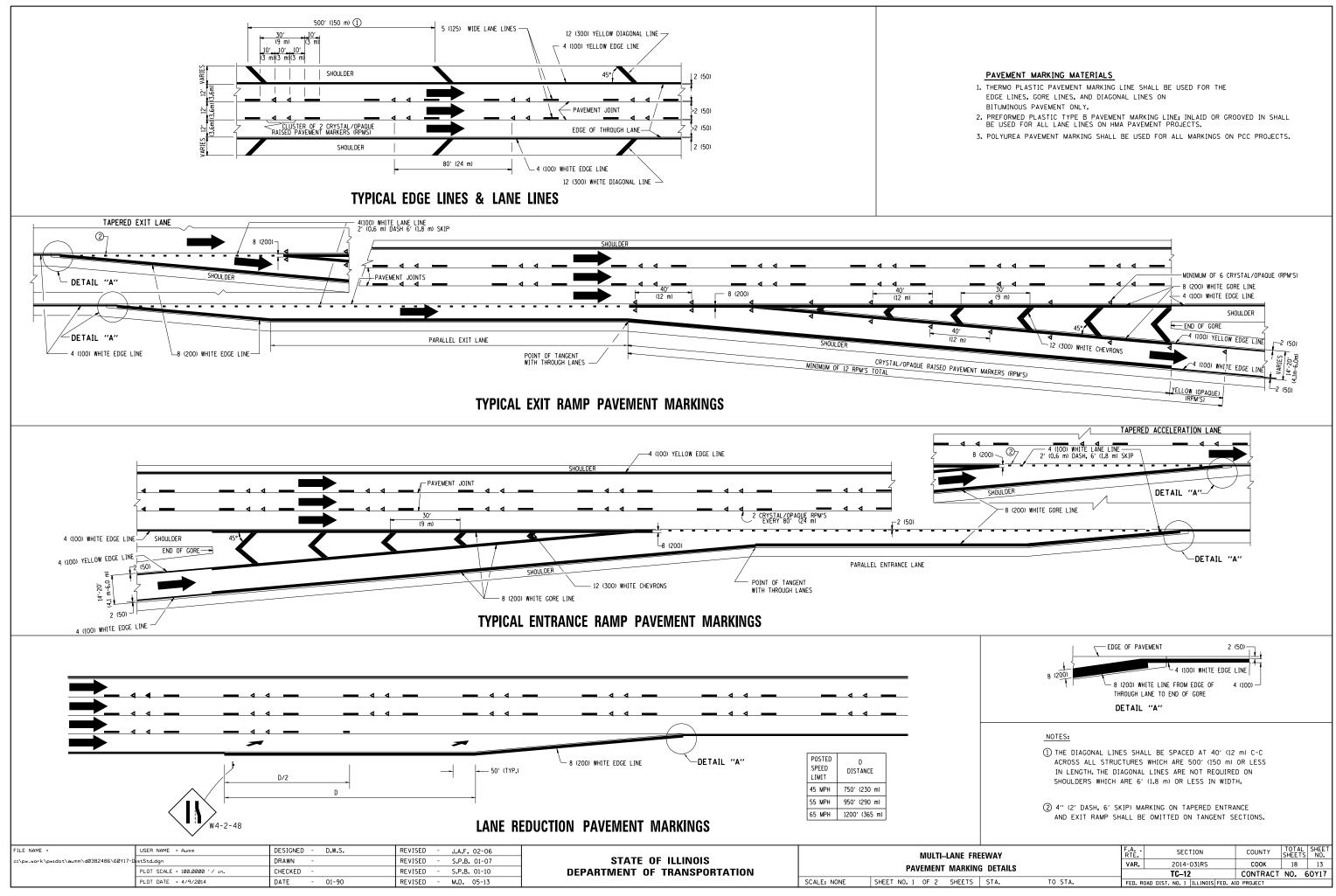
IMPACT ATTENUATOR

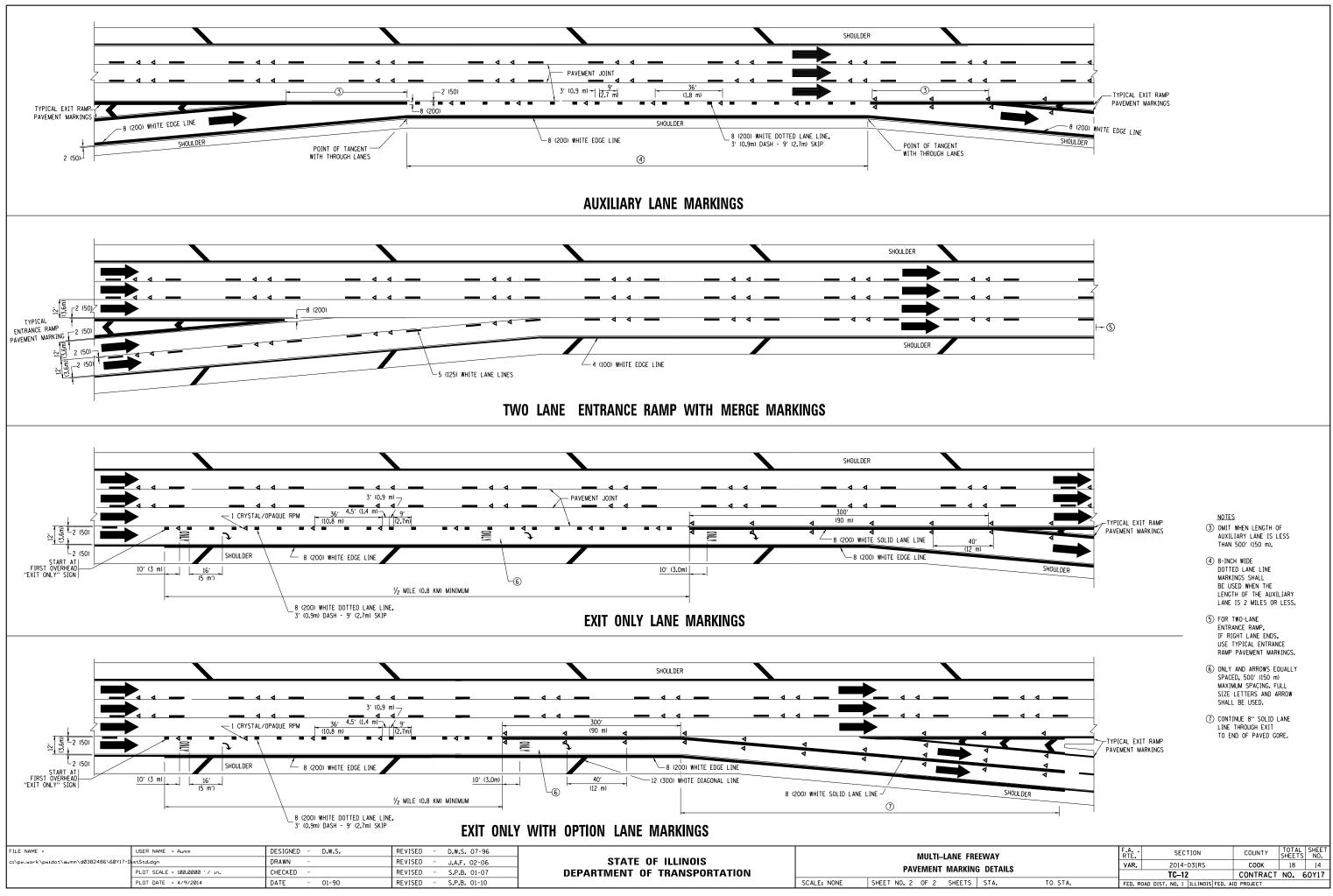
W24-1-48

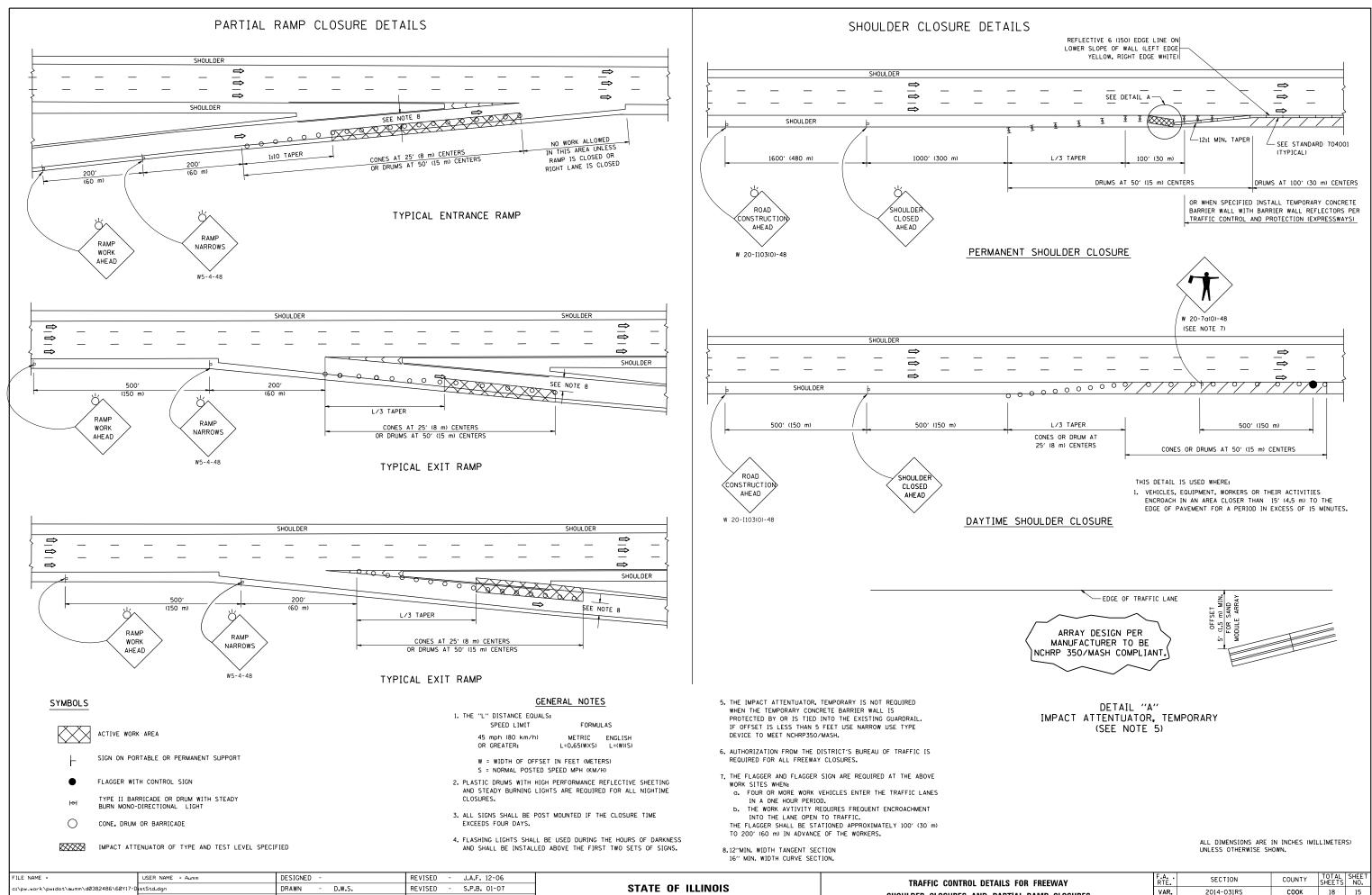
7

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

DE	DETAILS FOR		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JLTI-LANE WEAVE			VAR.	2014-031RS	СООК	18	12
			_	TC-09	CONTRACT	NO. 6	50Y17
	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

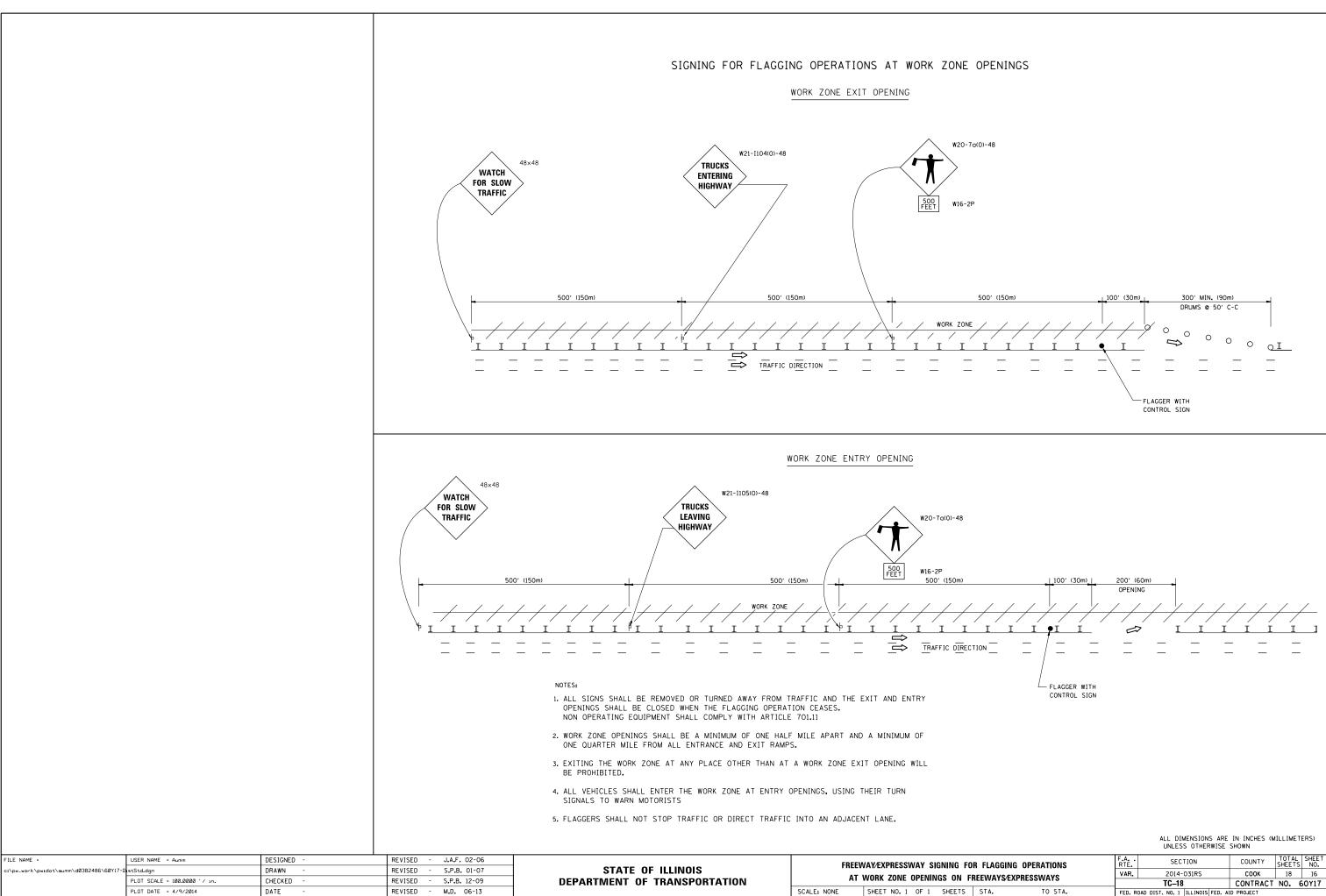






FILE NAME =	USER NAME = Aumm	DESIGNED -	REVISED - J.A.F. 12-06		Í	TRAFFIC CONTROL DETA
c:\pw_work\pwidot\aumm\d0382486\60Y17-D	istStd.dgn	DRAWN - D.W.S.	REVISED - S.P.B. 01-07	STATE OF ILLINOIS		
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - S.P.B. 12-09	DEPARTMENT OF TRANSPORTATION	SH	IOULDER CLOSURES AND PA
	PLOT DATE = 4/9/2014	DATE - 11-96	REVISED - M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

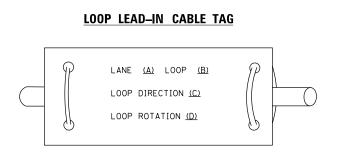
٨D	ARTIAL RAMP CLOSURES		VAR.	/AR. 2014-031RS			СООК	18	15
ARTIAL NAME CLUGORES			TC-17			CONTRACT	NO.	60Y17	
5	STA.	TO STA.	FED. F	ROAD DIST. NO. 1	ILLINOIS	FED. AI	D PROJECT		



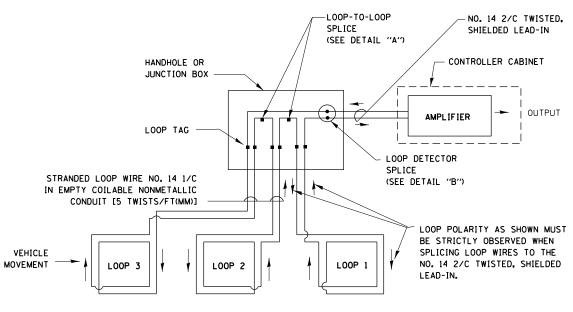
			UNLESS OTHERWISE SHOWN					
FOI	OR FLAGGING OPERATIONS			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FREEWAYS/EXPRESSWAYS		VAR.	2014-031RS	соок	18	16		
TE	FREEWAYS/EXPRESSWAYS		TC-18 CONTRACT			NO. 6	50Y17	
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

#### 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.

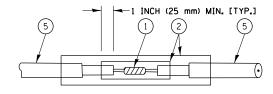


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

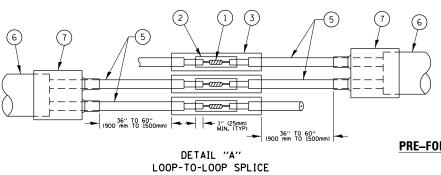


#### DETECTOR LOOP WIRING SCHEMATIC

- 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.



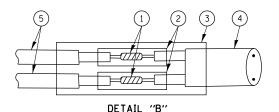
DETAIL "A" LOOP-TO-LOOP SPLICE



## LOOP DETECTOR SPLICE

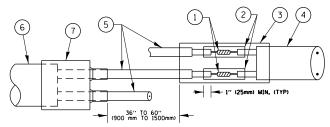
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

FILE NAME =	USER NAME = Aumm	DESIGNED - DAD	REVISED - DAG 1-1-14		DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A	SECTION	COUNTY TOTA	AL SHEET
c:\pw_work\pwidot\aumm\d0382486\60Y17-[	stStd.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			VAR.	2014-031RS	СООК 18	3 17
	PLOT SCALE = 100.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS05	CONTRACT NO.	60Y17
	PLOT DATE = 4/9/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.		FED. ROAD D	IST. NO. 1 ILLINOIS FED.	AID PROJECT	



LOOP-TO-CONTROLLER SPLICE

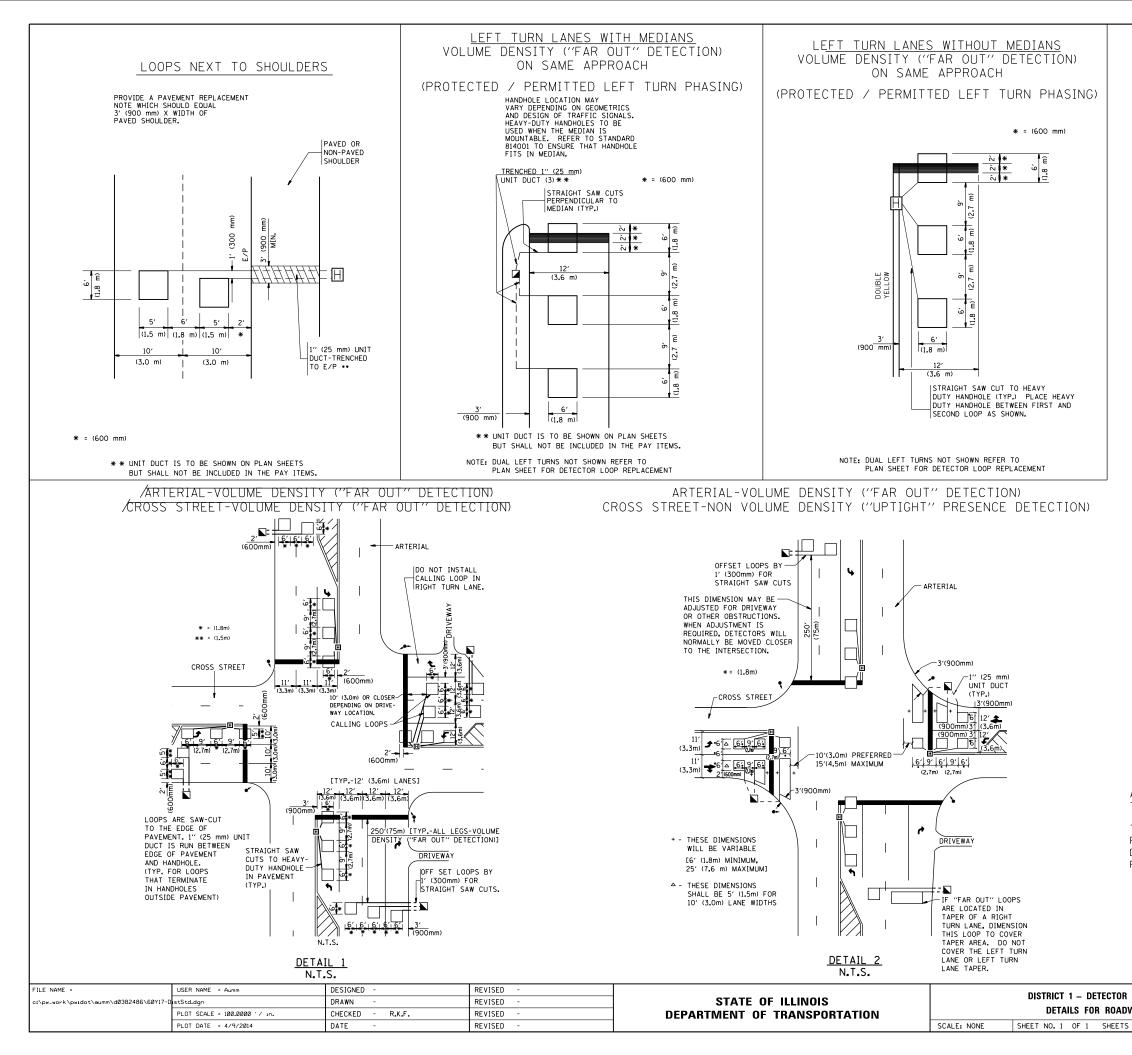
## TYPE I LOOP



## PRE-FORMED LOOP

#### DETAIL "B" LOOP-TO-CONTROLLER SPLICE

JRFACES	(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	$\bigcirc$
R GRADE.	T POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL



#### NOTES:

#### VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, <u>MORE</u> 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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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  $\underline{ALL}$  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.

L	LOOP INSTALLATION			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
WAY RESURFACING		VAR.	2014-031RS	COOK	18	18				
~~/	VAY RESURFACING TS-07 CONTRACT NO. 6				50Y17					
	STA.	TO STA.	FED. RC	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						