06-14-2019 LETTING ITEM 205

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED **HIGHWAY PLANS**

VARIOUS ROUTES SECTION: 2019–034–RS VARIOUS SOUTH EXPRESSWAY LOCATIONS **INTERMITTENT RESURFACING COOK & WILL COUNTY**

C-91-367-19

FOR GENERAL LOCATION MAP, SEE SHEET NO. 4



THIS PROJECT IS LOCATED IN:

THE CITY OF COUNTRY CLUB HILLS

THE CITY OF CHICAGO

THE VILLAGE OF MINOOKA

THE CITY OF JOLIET THE VILLAGE OF CHANNAHON



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. JDINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

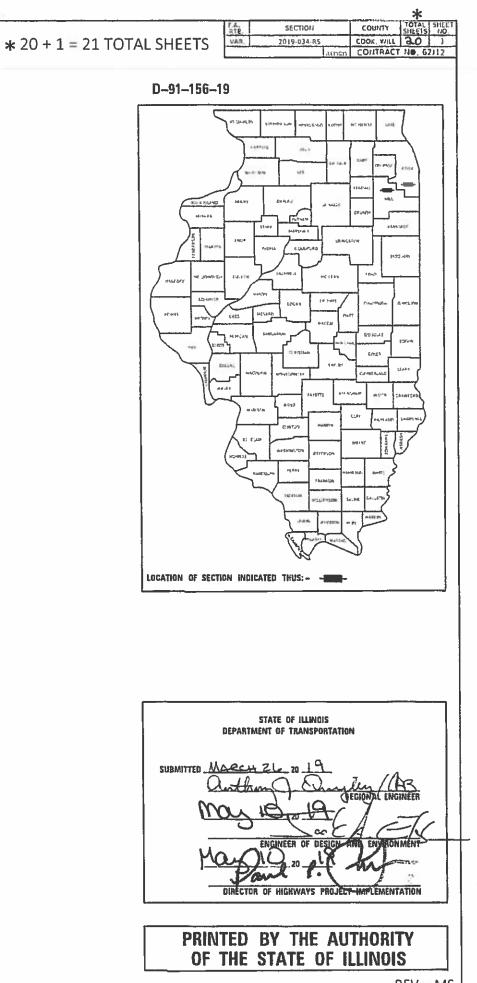
PROJECT ENGINEER: DANIEL WILGREEN (847) 705-4240 PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62J12

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REV. - MS

INDEX OF SHEETS

STATE STANDARDS

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION	NO WORK SHALL BE PERFORMED C
				THE CONTRACTOR WILL NOT BE A PROPERTY WITHOUT WRITTEN PER
1	COVER SHEET	000001-07	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS	ANY PAVEMENT MARKINGS AND RA
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY	RESURFACING OPERATIONS ON SIE
3	SUMMARY OF QUANTITIES	701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY	BEFORE BEGINNING ANY WORK, TH
4	GENERAL LOCATION MAP	701411-09	LANE CLOSURE, MULTI-LANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH	EXISTING PAVEMENT MARKING LIN LOCATIONS CAN BE RE-ESTABLISH
5	ROUTE INFORMATION	701426-09	LANE CLOSURE, MULTI-LANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH	SHALL BE AS DIRECTED BY THE F
6	SUMMARY OF INTERMITTENT RESURFACING SCHEDULE	701428-01	TRAFFIC CONTROL SETUP & REMOVAL FREEWAY/EXPRESSWAY	ALL INTERMITTENT RESURFACING
7-10	INTERMITTENT RESURFACING SCHEDULE	701446-09	TWO LANE CLOSURE FREEWAY/EXPRESSWAY	THE CONTRACTOR SHALL CONTACT 847-705-4151 A MINIMUM OF 72
10A	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY	THE ENGINEER SHALL CONTACT T
11	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	701901-08	TRAFFIC CONTROL DEVICES	MINIMUM OF TWO (2) WEEKS PRIO
12	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)			THE EXISTING ROADWAY TYPICAL ON TOP OF A TEN INCH CONCRET
13	FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)			
14-15	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)			ALL INTERMITTENT RESURFACING RESURFACE ONLY. THE MINIMUM V
16	FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)			THE COST OF ANY PARTIAL OR F
17	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS			EXISTING 2 INCH HOT-MIX ASPHA ARTICLE 109.04 OF THE STANDAR
	ON FREEWAYS/EXPRESSWAYS (TC-18)			ANY DETECTOR OF INDUCTION (
18	CENTER LANE CLOSURE SHOULDER LANE (TC-25)			ANY DETECTOR OR INDUCTION LOG THE RESPONSIBILITY OF THE CON
19	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05, SHEET 2 OF 7)			RESIDENT ENGINEER THIS INFORM
20	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING (TS-07)			NO PATCHING OR RESURFACING IS CROSSING.

HOT-MIX ASPHALT MIXTURE REQUIF	REMENTS	QUALITY MANAGEMENT
MIXTURE TYPE	AIR VOIDS (%) @ N _{des.}	PROGRAM (QMP)
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 2″	3.5% @ 80 GYR	QC / QA
CLASS D PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR	QC / QA
HMA REPLACEMENT OVER PATCHES (POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80)	3.5% @ 80 GYR	QC / QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/	'QA); QUALITY CONTROL F	OR PERFORMANCE (QCP)

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 "PG 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

USER NAME = Bilgramisa	DESIGNED - SB	REVISED - SB 5/7/19		INDEX OF	SHEETS, S	TATE S	STANDA	RDS & (GENERAL NOTES	F.A. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN - SB	REVISED -	STATE OF ILLINOIS		· -					VAR	2019-034-RS	COOK, WILL	. 20 2
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	
PLOT DATE = 5/8/2019	DATE -	REVISED -		SCALE: SH	EET	OF	SHEETS	STA.	TO STA.		ILLINOIS	ED. AID PROJECT	

GENERAL NOTES

) ON ANY BRIDGES OR ELEVATED STRUCTURES.

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

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

THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE ISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS WE ENGINEER.

NG LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT 2 HOURS IN ADVANCE OF BEGINNING WORK.

THE AREA TRAFFIC FIELD ENGINEER AT (847) 705-4153 RIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

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

R FULL DEPTH PATCHING REQUIRED AFTER THE REMOVAL OF THE PHALT SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH DARD SPECIFICATIONS.

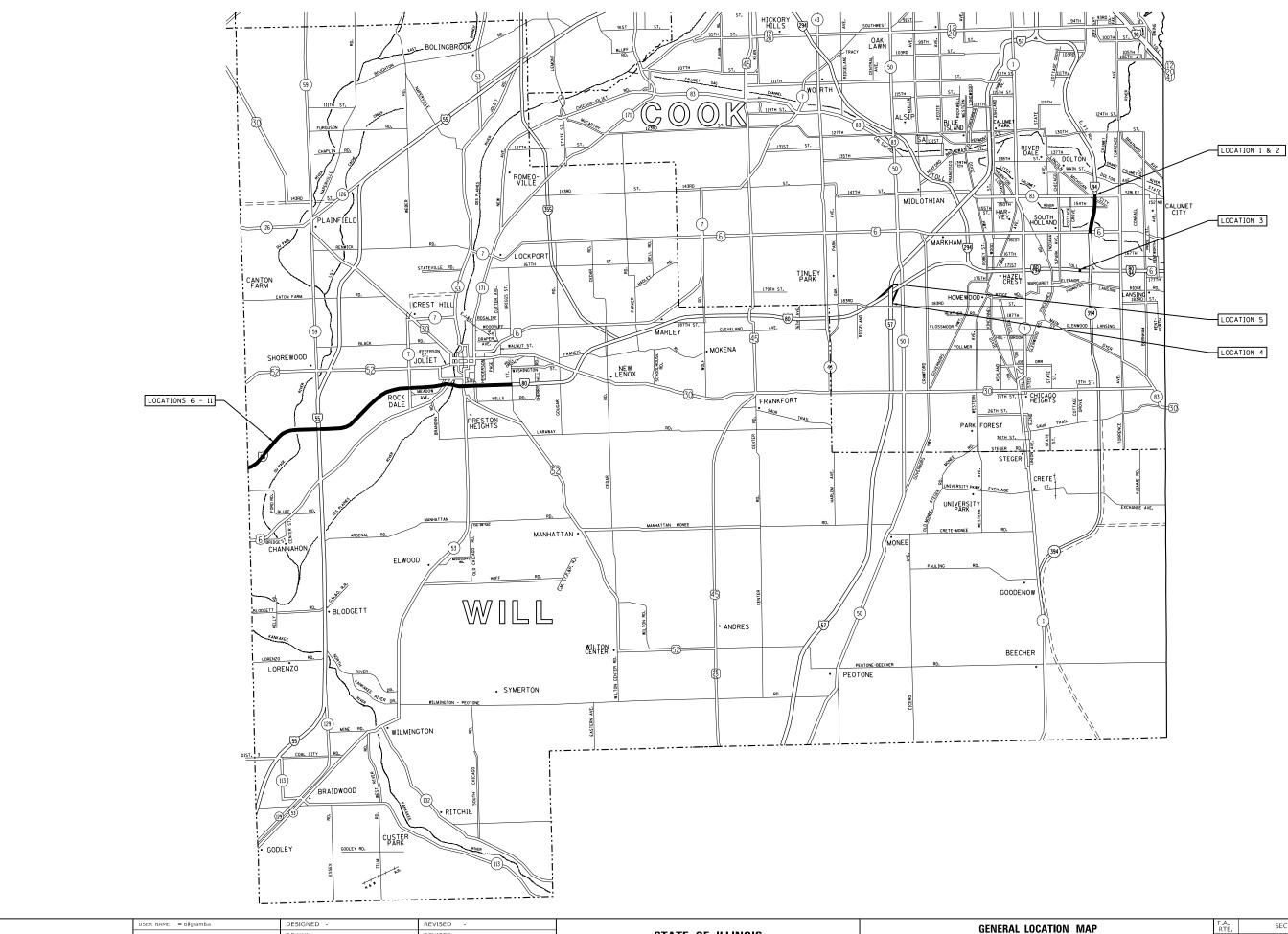
LOOPS DAMAGED BY MILLING SHALL BE REPLACED IN KIND. IT SHALL BE CONTRACTOR TO QUANTIFY LOOP REPLACEMENTS NEEDED AND PROVIDE THE RMATION PRIOR TO GRINDING OR REMOVAL.

IS 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).

					URBAN	-										
		SUMMARY (OF QUANTITIES			100%		ONSTRUCTIO	N TYPE C	ODE		+		SUMMA	RY OF QUANTITIES	
	CODE NO		ITEM	UNIT	TOTAL QUANTITIES	100% STATE COOK COUNTY 0005	100% STATE WILL COUNTY 0005						CODE NO		ITEM	UNIT
	40600290	BITUMINOUS MATERIA	LS (TACK COAT)	POUND	1832	1022	810					*	78100100	RAISED REFLE	CTIVE PAVEMENT MARKER	EACH
] [
	40600400	MIXTURE FOR CRACKS	, JOINTS, AND	TON	7	4	3						78300200	RAISED REFLE	CTIVE PAVEMENT MARKER	EACH
		FLANGEWAYS												REMOVAL		
	40600982	HOT-MIX ASPHALT SU	RFACE REMOVAL - BUTT	SO YD	114	69	45					*	88600600	DETECTOR LOO	P REPLACEMENT	FOOT
		JOINT														
													X4060004	POLYMERIZED	HOT-MIX ASPHALT SURFACE	TON
	44000157	HOT-MIX ASPHALT SU	RFACE REMOVAL, 2"	SO YD	3809	2269	1540							COURSE, STON	E MATRIX ASPHALT, 9.5, N80	
	67000400	ENGINEER'S FIELD O	FFICE, TYPE A	CAL MO	6	4	2						x7010410	SPEED DISPLA	Y TRAILER	CAL M
	67100100	MOBILIZATION		L SUM	1	0.6	0.4						x7011015	TRAFFIC CONT	ROL AND PROTECTION	L SUM
														EXPRESSWAYS	;)	
	70107025	CHANGEABLE MESSAGE	SIGN	CAL DA	30	18	12									
													x7030005	TEMPORARY PA	VEMENT MARKING REMOVAL	SQ FI
	70300520	PAVEMENT MARKING T	APE, TYPE III 4"	FOOT	149	124	25									
													40601005	HOT-MIX ASPH	ALT REPLACEMENT OVER PATCHES	TON
*	78000200	THERMOPLASTIC PAVE	MENT MARKING - LINE	FOOT	807	672	1 35									
		4"											44002212	HOT-MIX ASPH	ALT REMOVAL OVER PATCHES, 3"	SO Y
*	78000400	THERMOPLASTIC PAVE	MENT MARKING - LINE	FOOT	20	20							44001761	CLASS D PATCH	IES, TYPE I, 10 INCH	SO Y
		6"														
													44001765	CLASS D PATCH	IES, TYPE II, 10 INCH	SO Y
*	78000500	THERMOPLASTIC PAVE	MENT MARKING - LINE	FOOT	1213	160	1053									
		8"											44001769	CLASS D PATCH	ES, TYPE III, 10 INCH	SO Y
*	78004355	PREFORMED PLASTIC	PAVEMENT MARKING,	FOOT	1614	1344	270						44001771	CLASS D PATCH	ES, TYPE IV, 10 INCH	SO Y
		TYPE D - INLAID -	LINE 5"													
														* 5	PECIALTY ITEM	
	FILE NAME = pw:\\planroom.dot.JIIInoi		ME = Bilgramisa # NProjects\Design\CADData\Design\2019\Patchin	DESIGNED - g* DRAWW *Expressway-Sou	uth Cook and Will.dan	REVISED REVISED			1		ATE OF	, <u> </u>	INOIS			EXPRESSWA
		PLOT SC	ALE = 100.0000 ' / In.	CHECKED -		REVISED	-		D				NSPORTA	TION		ARY OF QUA
		PLOT DA	TE = 4/1/2019	DATE -		REVISED	-								SCALE: SHEET NO. 1 OF 1	SHEE 12

	URBAN							
					NSTRUCTIO	N TYPE C	ODE	
IT	TOTAL QUANTITIES	100% STATE COOK COUNTY	100 STA WIL	% TE L				
-		0005						
СН	70	54	16	•				
Сн	70	54	16	,				
OT	100	70	30)				
N	428	255	173	i				
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FT	72	62	10	,				
)N	48		48					
YD	284		28	4				
YD	15		15					
YD	96		96	•				
YD	40		40	1				
YD	107		10	7				
				F.A	SECTI			DTAL SHEET EETS NO.
VAY H JANTI	OUTES TIES			VAR	2019-034		COOK, WILL	20 3
STA.		D STA.		FED. RO	AD DIST. NO. 1 (IL	LINOIS FED. AID	CONTRACT I	NO. 62J12



USER NAME = Bilgramisa	DESIGNED -	REVISED -			(FNFRA		TION MAP		F.A. BTE	SECTION	COUNT		AL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	VA						VAR	2019-034-RS	соок. w	ILL 20	4
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	VA	KIUUS LU	CATION	15 IN U	00K & WIL	L COUNTY			CONTR	ACT NO.	62J12
PLOT DATE = 3/28/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEE	TS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

MODEL

	SUMMARY - SOUTH COOK & WILL COUNTY EXPRESSWAY ROUTES	COUNTY	CITIES/VILLAGES	TOWNSHIPS	SPEED LIMIT	EXISTING ADT (YEAR)
LOC. 1	BISHOP FORD NB (US 6 / 159TH ST. TO SIBLEY BLVD.)	СООК	DOLTON & SOUTH HOLLAND	THORNTON	55 MPH	134,000 (2018)
LOC. 2	BISHOP FORD SB (US 6 / 159TH ST. TO SIBLEY BLVD.)	СООК	DOLTON & SOUTH HOLLAND	THORNTON	55 MPH	134,000 (2018)
LOC. 3	I-80 WB (EAST OF SCHOOL ST. NEAR OASIS)	соок	SOUTH HOLLAND	THORNTON	55 MPH	176,100 (2018)
LOC. 4	I-57 NB (ENTRANCE RAMP TO I-80 EB TO END OF RAMP)	СООК	COUNTRY CLUB HILLS	BREMEN	45 MPH	6,600 (2018)
LOC. 5	I-80 EB TO I-57 NB ENTRANCE RAMP	соок	COUNTRY CLUB HILLS	BREMEN	45 MPH	24,500 (2018)
LOC. 6	I-80 WB / EB (BRIGGS STREET TO RICHARDS STREET)	WILL	JOLIET	JOLIET	55 MPH	71,100 (2017)
LOC. 7	I-80 WB / EB (RICHARDS STREET TO STEEL TRUSS BRIDGE)	WILL	JOLIET	JOLIET	55 MPH	85,400 (2017)
LOC. 8	I-80 WB / EB (STEEL TRUSS BRIDGE TO LARKIN AVE.)	WILL	JOLIET	JOLIET	55 MPH	69,500 (2017)
LOC. 9	I-80 WB / EB (LARKIN AVENUE TO HOUBOLT RD.)	WILL	JOLIET	JOLIET & TROY	70 MPH	60,100 (2017)
LOC. 10	I-80 WB / EB (HOUBOLT ROAD TO I-55)	WILL	CHANNAHON & JOLIET	TROY	70 MPH	61,900 (2017)
LOC. 11	I-80 WB / EB (I-55 TO MINOOKA)	WILL	MINOOKA	TROY	70 MPH	60,500 (2017)

USER NAME = Bilgramisa	DESIGNED -	REVISED -		ROUTE INFORMATION					F.A. BTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
	DRAWN -	REVISED -	STATE OF ILLINOIS					VAR	2019-034-RS	COOK, WILL	20 5			
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	VARIOUS LOCATIONS IN COOK & WILL COUNTY							CONTRACT	F NO. 62J12		
PLOT DATE = 3/28/2019	DATE -	REVISED -		SCALE: OF SHEETS STA. TO STA.							ILLINOIS FED.		AID PROJECT	

	SUMMARY - COOK COUNTY EXPRESSWAY ROUTES	HMA 2" MILL & RESURFACE (SY)
1	BISHOP FORD NB (US 6 / 159TH ST. TO SIBLEY BLVD.)	882
2	BISHOP FORD SB (US 6 /159TH ST. TO SIBLEY BLVD.)	628
3	I-80 WB (EAST OF SCHOOL ST. NEAR OASIS)	13
4	I-57 NB (ENTRANCE RAMP TO I-80 EB TO END OF RAMP)	722
5	I-80 EB TO I-57 NB ENTRANCE RAMP	24
	COOK COUNTY EXPRESSWAY TOTAL =	2,269 SY

		HMA 2" MILL
	SUMMARY - WILL COUNTY EXPRESSWAY ROUTES	& RESURFACE
		(SY)
6	I-80 WB / EB (BRIGGS STREET TO RICHARDS STREET)	53
7	I-80 WB / EB (RICHARDS STREET TO STEEL TRUSS BRIDGE)	173
8	I-80 WB / EB (STEEL TRUSS BRIDGE TO LARKIN AVE.)	301
9	I-80 WB / EB (LARKIN AVENUE TO HOUBOLT RD.)	427
10	I-80 WB / EB (HOUBOLT ROAD TO I-55)	175
11	I-80 WB / EB (I-55 TO MINOOKA)	411
	WILL COUNTY EXPRESSWAY TOTAL =	1,540
		SY

		CLASS D
	SUMMARY - WILL COUNTY EXPRESSWAY ROUTES	PATCHES, 10 IN
		(SY)
11A	I-80 WB/EB (I-55 TO MINOOKA)*	258

USER NAME = Bilgramisa	DESIGNED - SB	REVISED - 5/7/19 SB		SUMM	ARY OF	INTERMI	TTENT B	RESURF	FACING SCHEDULE	F.A. BTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN - SB	REVISED -	STATE OF ILLINOIS	VARIOUS	EXPRESSV				OOK & WILL COUNTY	VAR	2019-034-RS	COOK, WILL	20 6
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	VARIOUS	EVLUESON	VAT LUU	CATIONS	IN C	JUIN & WILL COUNTY			CONTRAC	T NO. 62J12
PLOT DATE = 5/7/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	5 STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

• CLASS D PATCHES NOTE: TOTAL QUANTITY INCLUDES TYPE I, II, III, IV EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ROUTE:	Bisho	op Ford NB (US	6 / 159th	St to Sibley	Blvd)]
CROSS S	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*	Sibley	NB	Ramp	12	20	240	27
159th	Sibley	NB	3	3	100	300	33
159th	Sibley	NB	3	3	75	225	25
159th	Sibley	NB	3	12	50	600	67
159th	Sibley	NB	3	12	15	180	20
159th	Sibley	NB	3	12	30	360	40
159th	Sibley	NB	3	12	30	360	40
159th	Sibley	NB	3	12	20	240	27
159th	Sibley	NB	3	12	40	480	53
159th	Sibley	NB	3	3	50	150	17
159th	Sibley	NB	3	12	100	1200	133
159th	Sibley	NB	3	12	8	96	11
159th	Sibley*	NB	Ramp	12	10	120	13
159th	Sibley*	NB	Ramp	12	10	120	13
159th	Sibley	NB	2	12	30	360	40
159th	Sibley	NB	2	12	25	300	33
159th	Sibley	NB	2	12	25	300	33
159th	Sibley	NB	2	12	25	300	33
159th	Sibley	NB	2	12	100	1200	133
159th	Sibley	NB	2	3	50	150	17
159th	Sibley	NB	1	12	10	120	13
159th	Sibley	NB	1	12	10	120	13
159th	Sibley	NB	1	12	15	180	20
159th	Sibley	NB	1	12	10	120	13
159th	Sibley	NB	1	12	10	120	13
		TOTALS:			868		882
					FT		SY

LOCATION 2

		vd.)	to Sibley Bl	6/159th	op Ford SB (US	Bish	ROUTE:
REPAI	REPAIR	PAVEMENT	PAVEMENT	LANE	DIRECTION	STREET	CROSS S
AREA	AREA	РАТСН	РАТСН	NO.	(EB/WB)	ТО	FROM
(SQ YD	(SQ FT)	LENGTH	WIDTH	(1, 2, 3)	(NB/SB)		
133	1200	100	12	Ramp	SB	159th	Sibley
20	180	15	12	3	SB	159th	Sibley
17	150	50	3	3	SB	159th	Sibley
27	240	20	12	3	SB	159th	Sibley
27	240	20	12	3	SB	159th	Sibley
13	120	10	12	3	SB	159th	Sibley
20	180	15	12	3	SB	159th	Sibley
17	150	50	3	3	SB	159th	Sibley
17	150	50	3	3	SB	159th	Sibley
50	450	150	3	3	SB	159th	Sibley
20	180	15	12	2	SB	159th	Sibley
20	180	15	12	2	SB	159th	Sibley
20	180	15	12	2	SB	159th	Sibley
33	300	25	12	2	SB	159th	Sibley
33	300	25	12	2	SB	159th	Sibley
27	240	20	12	2	SB	159th	Sibley
13	120	10	12	2	SB	159th	Sibley
17	150	50	3	1	SB	159th	Sibley
20	180	15	12	1	SB	159th	Sibley
5	45	15	3	1	SB	159th	Sibley
20	180	15	12	1	SB	159th	Sibley
20	180	15	12	1	SB	159th	Sibley
20	180	15	12	1	SB	159th	Sibley
20	180	15	12	1	SB	159th	Sibley
628		745			TOTALS:		
SY		FT					

LOCATION 3

ROUTE:	ROUTE: I-80 WB (East of School St. Near Oasis)									
CROSS S	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)			
Near Oasis	East of School St	WB	3	12	10	120	13			
		TOTALS:			10		13			
					FT		SY			

USER NAME = Bilgramisa	DESIGNED -	REVISED -			INTERMITTENT RESURFACING SCHEDULE	F.A.	SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	SCALE: SHEET 1 OF 4 SHEETS STAL TO STAL		VAR	2019-034-RS	COOK, WILL 20 7
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 62J12
PLOT DATE = 3/28/2019	DATE -	REVISED -					ILLINOIS FED.	AID PROJECT

ROUTE:	I-57 NB	(Entrance Ram	np to I-80	EB to End of	Ramp)		
		1		1			
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)
Start of Ramp	End of Ramp	EB	1	16	6	96	11
Start of Ramp	End of Ramp	EB	1	16	40	640	71
Start of Ramp	End of Ramp	EB	1	16	25	400	44
Start of Ramp	End of Ramp	EB	1	16	20	320	36
Start of Ramp	End of Ramp	EB	1	16	10	160	18
Start of Ramp	End of Ramp	EB	1	16	20	320	36
Start of Ramp	End of Ramp	EB	1	16	275	4400	489
Start of Ramp	End of Ramp	EB	1	16	10	160	18
		TOTALS:			406		722
					FT		SY

ROUTE:	I-80	WB/EB (Briggs	Street to	Richards Str	eet)]
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)
Truss Bridge	Richards	EB	2	12	20	240	27
Truss Bridge	Richards	WB	2	12	20	240	27
		TOTALS:			40 FT		53 SY

LOCATION 5

ROUTE:		I-80 EB to I-5	7 NB Entra	ance Ramp			
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)
Beginning of Ramp	End of Ramp	NB	1	12	6	72	8
Beginning of Ramp	End of Ramp	NB	1	12	6	72	8
Beginning of Ramp	End of Ramp	NB	1	12	6	72	8
		TOTALS:			18		24
					FT		SY

LOCATION 7

I-80 WB/EB (Richards Street to Steel Truss Bridge) ROUTE: CROSS STREET DIREC то (EB/ FROM (NB/ Truss Bridge Richards E Truss Bridge Richards E Truss Bridge Richards E Truss Bridge Richards W Richards W Truss Bridge Truss Bridge Richards W

TOTALS:

USER NAME = Bilgramisa	DESIGNED -	REVISED -			INTERMITTENT RESURFACING SCHEDULE	F.A. BTE	SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS				2019-034-RS	COOK, WILL 20 8
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		LOCATIONS 4 – 7 (I–57 & I–80)			CONTRACT NO. 62J12
PLOT DATE = 3/28/2019	DATE -	REVISED -		SCALE:	SHEET 2 OF 4 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

	chards sheet to steer muss bridge)								
'									
REPAIR	REPAIR	PAVEMENT	PAVEMENT	LANE	CTION				
AREA	AREA	PATCH	РАТСН	NO.	/WB)				
(SQ YD)	(SQ FT)	LENGTH	WIDTH	(1, 2, 3)	3/SB)				
27	240	20	12	2	EB				
27	240	20	12	2	EB				
40	360	30	12	2	EB				
13	120	10	12	2	VВ				
27	240	20	12	2	VВ				
40	360	30	12	2	VВ				

130 FΤ

ROUTE:	I-80 W	/B/EB (Steel T	russ Bridg	ge to Larkin /	Ave.)		
CROSS S	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)
Truss Bridge	Larkin	EB	2	12	10	120	13
Truss Bridge	Larkin	EB	2	12	10	120	13
Truss Bridge	Larkin	EB	2	12	10	120	13
Truss Bridge	Larkin	EB	1	12	10	120	13
Truss Bridge	Larkin	EB	1	12	10	120	13
Truss Bridge	Larkin	EB	1	12	10	120	13
Truss Bridge	Larkin	EB	2	12	10	120	13
Truss Bridge	Larkin	EB	2	12	10	120	13
Truss Bridge	Larkin	EB	2	12	10	120	13
Truss Bridge	Larkin	EB	2	12	20	240	27
Truss Bridge	Larkin	EB	2	12	6	72	8
Truss Bridge	Larkin	EB	2	12	20	240	27
Truss Bridge	Larkin	EB	2	12	10	120	13
Truss Bridge	Larkin	EB	2	12	20	240	27
Truss Bridge	Larkin	WB	2	12	10	120	13
Truss Bridge	Larkin	WB	2	12	10	120	13
Truss Bridge	Larkin	WB	2	12	20	240	27
Truss Bridge	Larkin	WB	2	12	20	240	27
		TOTALS:	-		226 FT		301 SY

LOCATION 9

		₹d.)	to Houbolt f	Avenue	WB/EB (Larkin	I-80	ROUTE:
REPAI	REPAIR	PAVEMENT	PAVEMENT	LANE	DIRECTION	TREET	CROSS S
AREA	AREA	PATCH	PATCH	NO.	(EB/WB)	TO	FROM
(SQ YD	(SQ FT)	LENGTH	WIDTH	(1, 2, 3)	(NB/SB)		
27	240	20	12	2	EB	Houbolt Avenue	Larkin Avenue
40	360	30	12	2	EB	Houbolt Avenue	Larkin Avenue
40	360	30	12	2	EB	Houbolt Avenue	Larkin Avenue
13	120	10	12	2	EB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	EB	Houbolt Avenue	Larkin Avenue
13	120	10	12	2	EB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	EB	Houbolt Avenue	Larkin Avenue
13	120	10	12	2	EB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	EB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	EB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	EB	Houbolt Avenue	Larkin Avenue
13	120	10	12	2	EB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	WB	Houbolt Avenue	Larkin Avenue
13	120	10	12	2	WB	Houbolt Avenue	Larkin Avenue
13	120	10	12	2	WB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	WB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	WB	Houbolt Avenue	Larkin Avenue
27	240	20	12	2	WB	Houbolt Avenue	Larkin Avenue

USER NAME = Bilgramisa	DESIGNED -	REVISED -			INTERMITTENT RESURFACING SCHEDULE	F.A. BTE	SECTION	COUNTY TOTAL SHEETS	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			VAR	2019-034-RS	COOK, WILL 20	9
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LOCATIONS 8 – 9 (I–80)				CONTRACT NO. 6	62J12
PLOT DATE = 3/28/2019	DATE -	REVISED -		SCALE:	SHEET 3 OF 4 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	

TOTALS:

320 FT

FROM

I-55

I-55

I-55

I-55

I-55

I-55

I-55

I-55

I-55

ROUTE:

CROSS STREET

то

Houbolt

Houbolt

Houbolt

Houbolt

Houbolt

Houbolt

Houbolt

Houbolt

Houbolt

I-80 WB/EB (Houbolt Road to I-55)

NO.

(1, 2, 3)

2

2

2

2

2

2

2

2

2

LANE PAVEMENTPAVEMENT

PATCH

LENGTH

20

25

10

6

10

20

10

20

10

131

FT

PATCH

WIDTH

12

12

12

12

12

12

12

12

12

REPAIR

AREA

(SQ FT)

240

300

120

72

120

240

120

240

120

REPAIR

AREA

(SQ YD)

27

33

13

8

13

27

13

27

13

175

SY

DIRECTION

(EB/WB)

(NB/SB)

EB

EB

EB

EB

EB

EB

WB

WB

WB

TOTALS:

LOCATION	11
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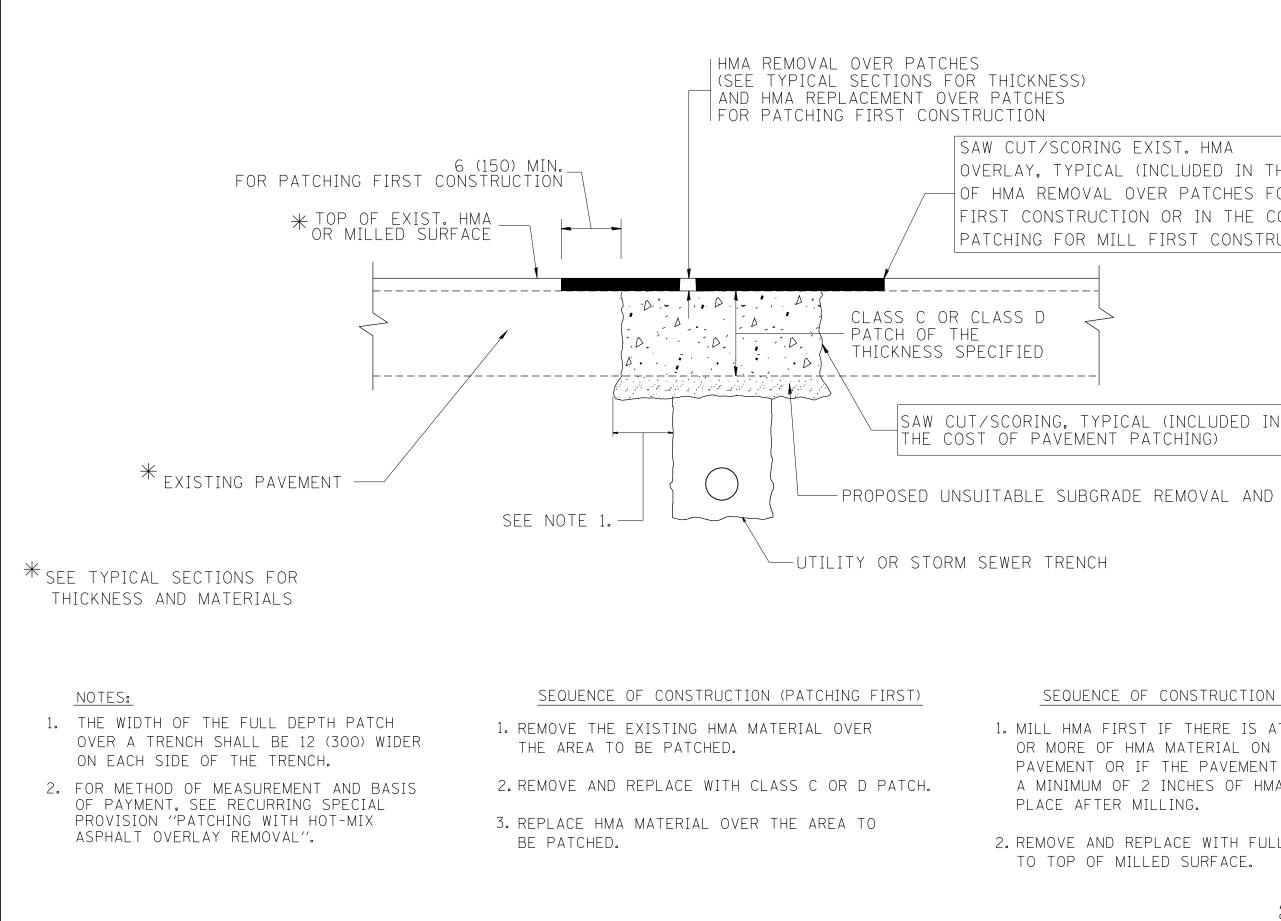
ROUTE:	

			1inooka)	(I-55 to N	I-80 WB/EB		ROUTE:
					DIDECTION	TDEET	CROSS
REPAIR	REPAIR		PAVEMENT		DIRECTION		CROSS S
AREA	AREA	PATCH	PATCH	NO.	(EB/WB)	ТО	FROM
(SQ YD	(SQ FT)	LENGTH	WIDTH	(1, 2, 3)	(NB/SB)		
16	144	12	12	2	WB	Minooka	I-55
13	120	10	12	1	WB	Minooka	I-55
16	144	12	12	2	WB	Minooka	I-55
13	120	10	12	2	WB	Minooka	I-55
13	120	10	12	2	WB	Minooka	I-55
8	72	6	12	2	WB	Minooka	1-55
8	72	6	12	2	WB	Minooka	I-55
11	96	8	12	1	WB	Minooka	I-55
11	96	8	12	2	WB	Minooka	I-55
13	120	10	12	1	WB	Minooka	I-55
27	240	20	12	2	WB	Minooka	I-55
11	96	8	12	2	WB	Minooka	I-55
8	72	6	12	1	EB	Minooka	I-55
8	72	6	12	2	EB	Minooka	I-55
11	96	8	12	1	EB	Minooka	I-55
27	240	20	12	2	EB	Minooka	I-55
27	240	20	12	2	EB	Minooka	I-55
33	300	25	12	2	EB	Minooka	I-55
8	72	6	12	2	EB	Minooka	I-55
27	240	20	12	2	EB	Minooka	I-55
33	300	25	12	2	EB	Minooka	I-55
8	72	6	12	1	WB	Minooka	I-55
8	72	6	12	2	WB	Minooka	I-55
8	72	6	12	1	WB	Minooka	I-55
8	72	6	12	2	WB	Minooka	1-55
8	72	6	12	1	EB	Minooka	1-55
9	84	7	12	2	EB	Minooka	1-55
9	84	7	12	1	EB	Minooka	I-55
11	96	8	12	2	EB	Minooka	I-55
411		308			TOTALS:		

USER NAME = Bilgramisa	DESIGNED - SB	REVISED - 5/7/19 SB		INTERMITTENT RESURFACING SCHEDULE LOCATIONS 10 – 11 (I–80)		F.A. BTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
	DRAWN - SB	REVISED -	STATE OF ILLINOIS			VAR	2019-034-RS	соок, wii	L 20 10	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		LUCATIONS 10 - 11 (I-80)				CONTRA	CT NO. 62J12
PLOT DATE = 5/7/2019	DATE -	REVISED -		SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.			ILLINOIS FED. A	ID PROJECT		

TOTALS:

308 FT



							ALL DIMENSIONS ARE IN INCHE OTHERWISE SHOWN.	ES (MILLIMETERS) UNLESS
FILE NAME =	USER NAME = Bilgramisa	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING	EOR	F.A. SECTION	COUNTY TOTAL SHEET
pw://planroom.dot.illinois.gov:PWIDOT/Docu	nents\IDOT_Offices\District_I\Projects\Design	\ QRAWW \Design\2019\Patching\HMA\HMA-E	xoR&VISEDouth Cook.aBOR0101s03to07gn	STATE OF ILLINOIS			VAR 2019-034-RS	COOK, WILL 20 10A
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEN	VIENI	BD400-04 (BD-22)	CONTRACT NO. 62J12
	PLOT DATE = 5/7/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS ST	A. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

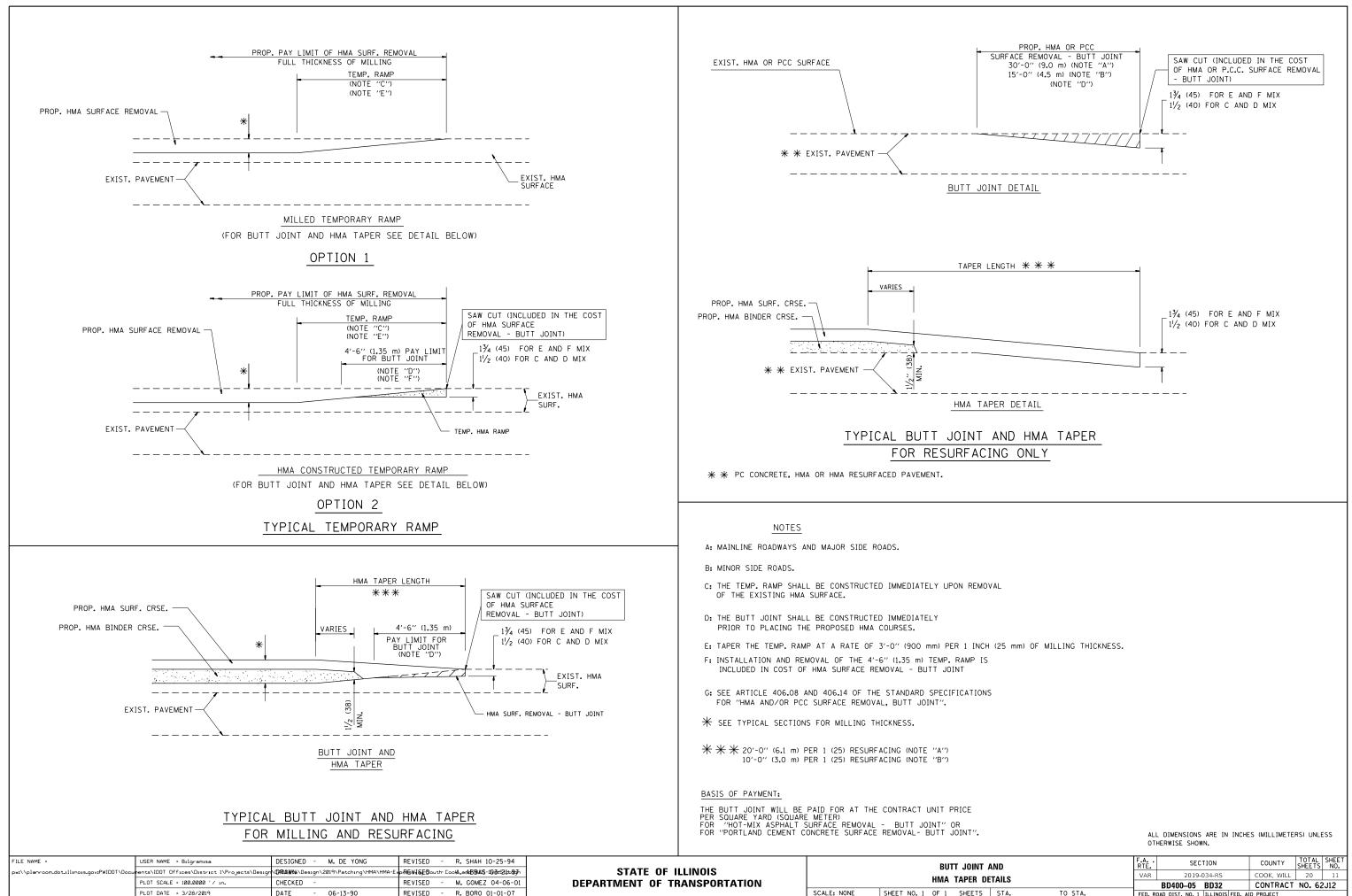
OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

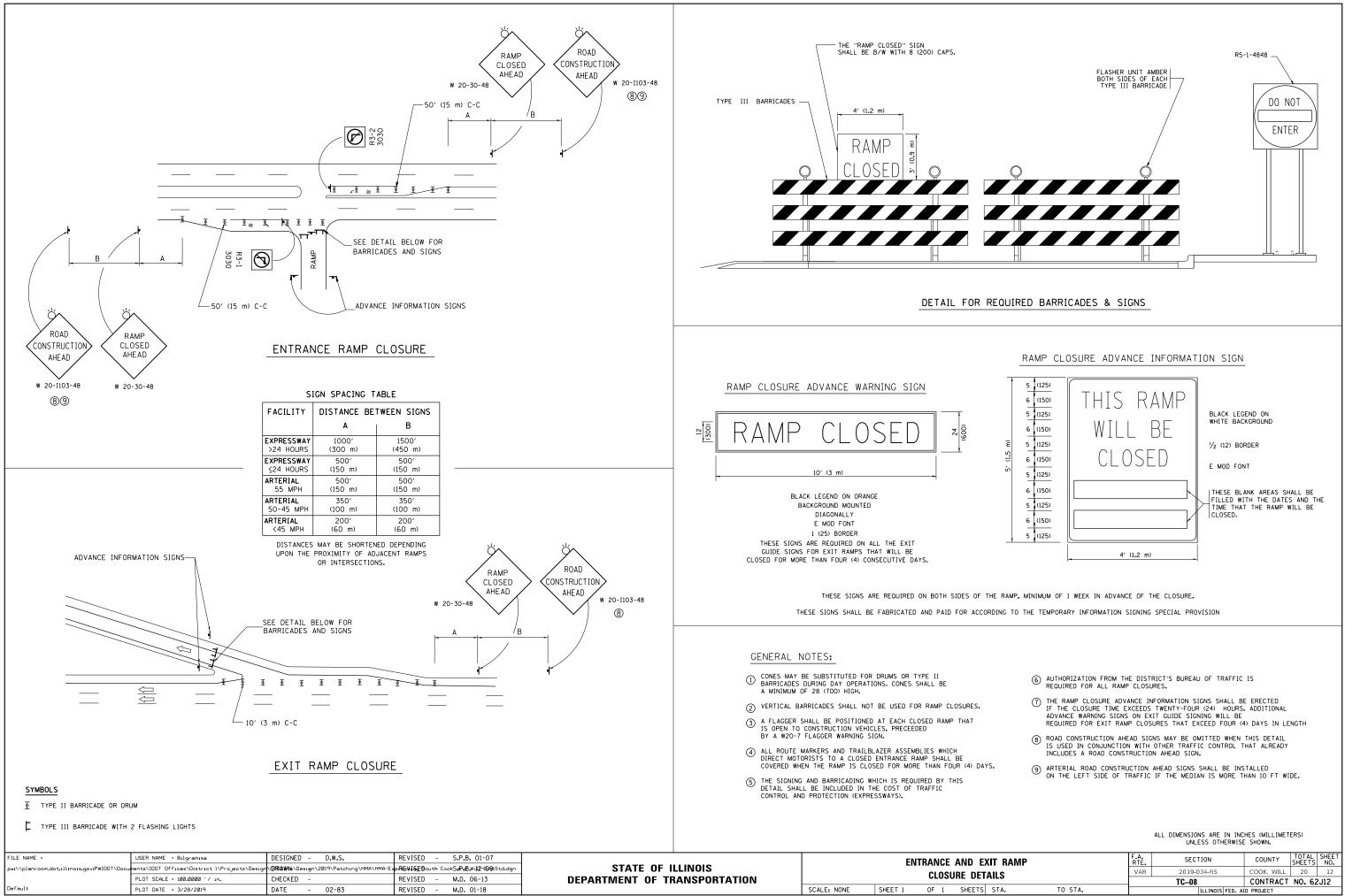
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

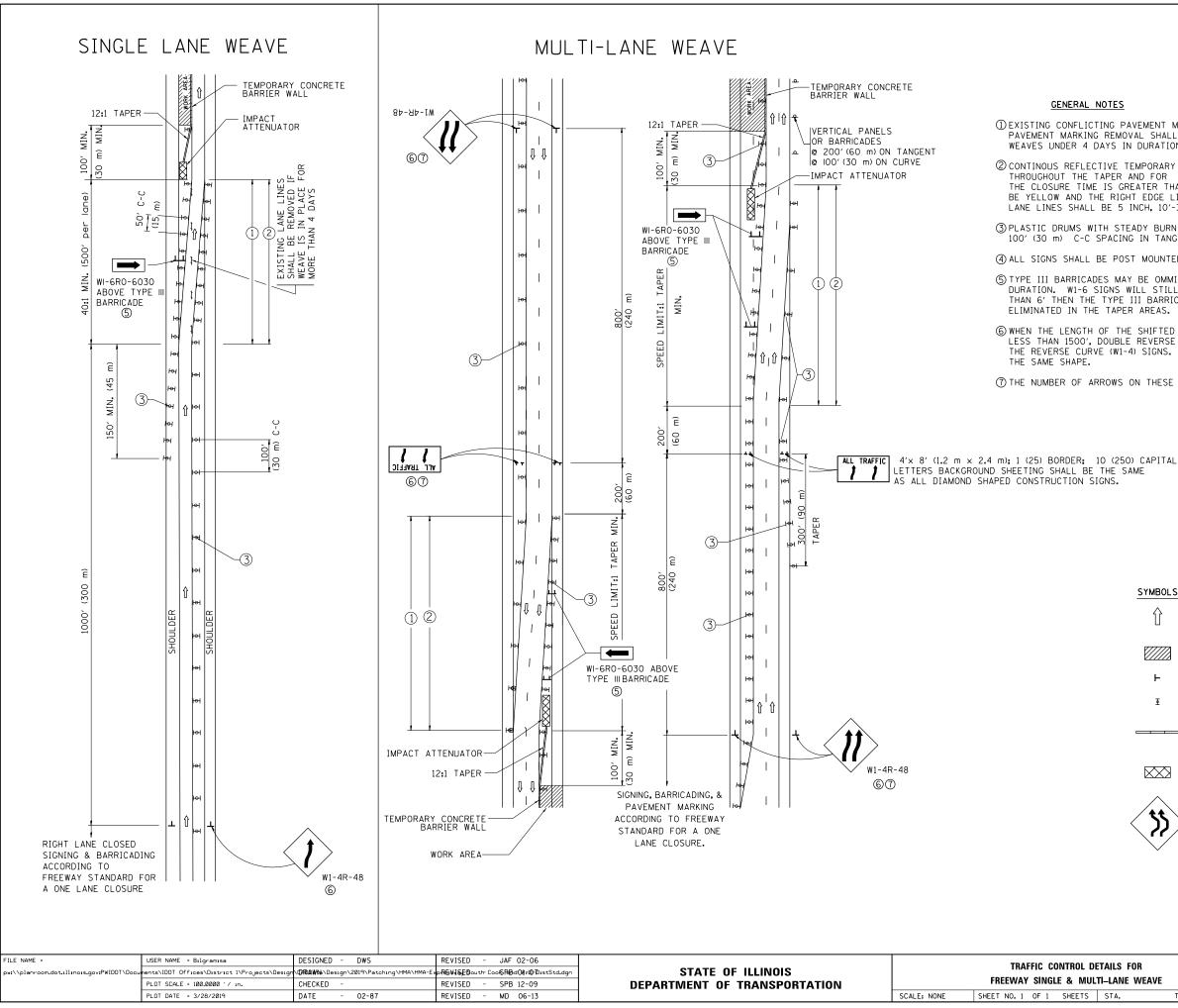
1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.



AND			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS		VAR	2019-034-RS	COOK, WILL	20	11	
лс —				BD400–05 BD32	CONTRACT	NO. 62	2J12
	STA.	TO STA.	FED. RO	DAD 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}

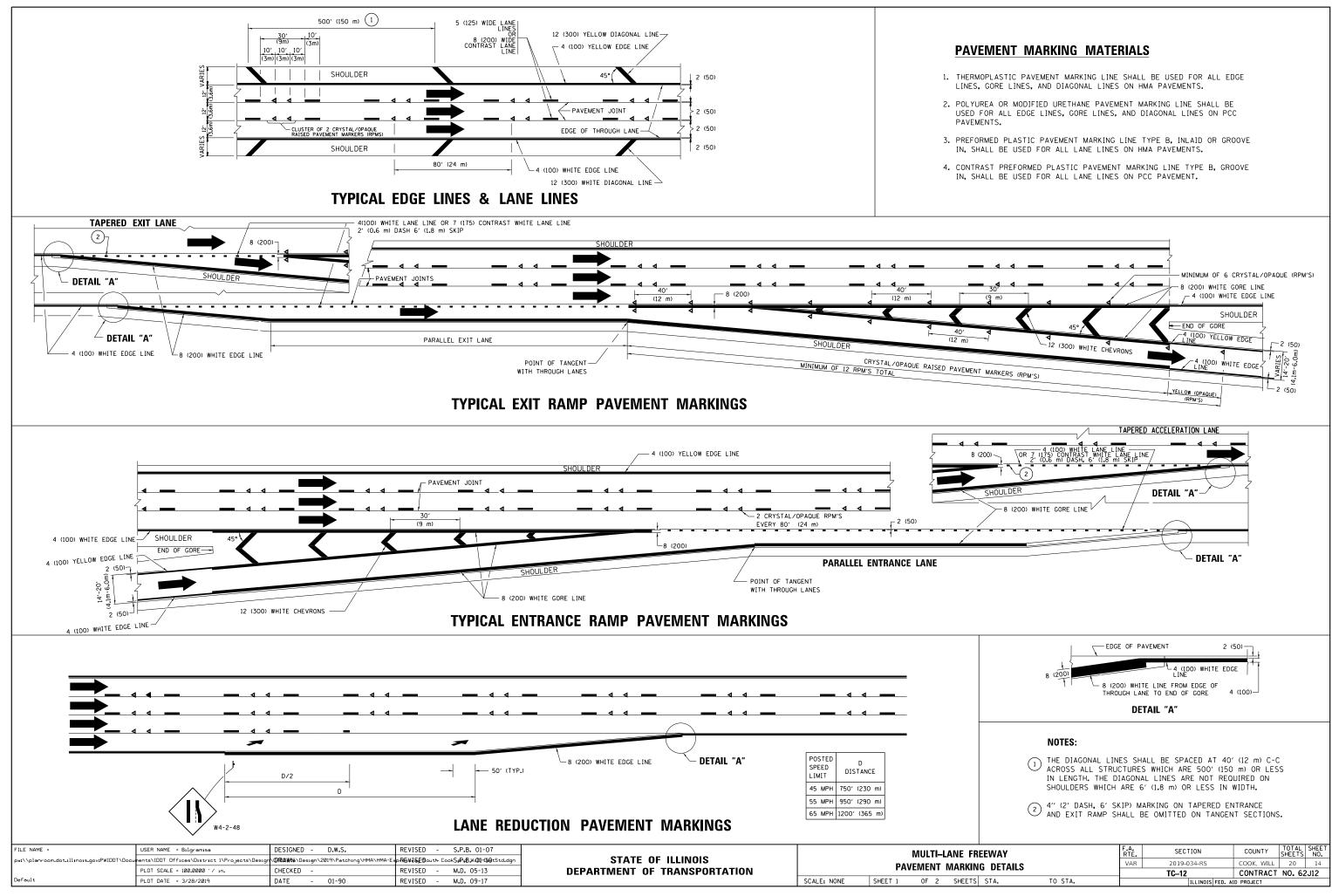
IMPACT ATTENUATOR

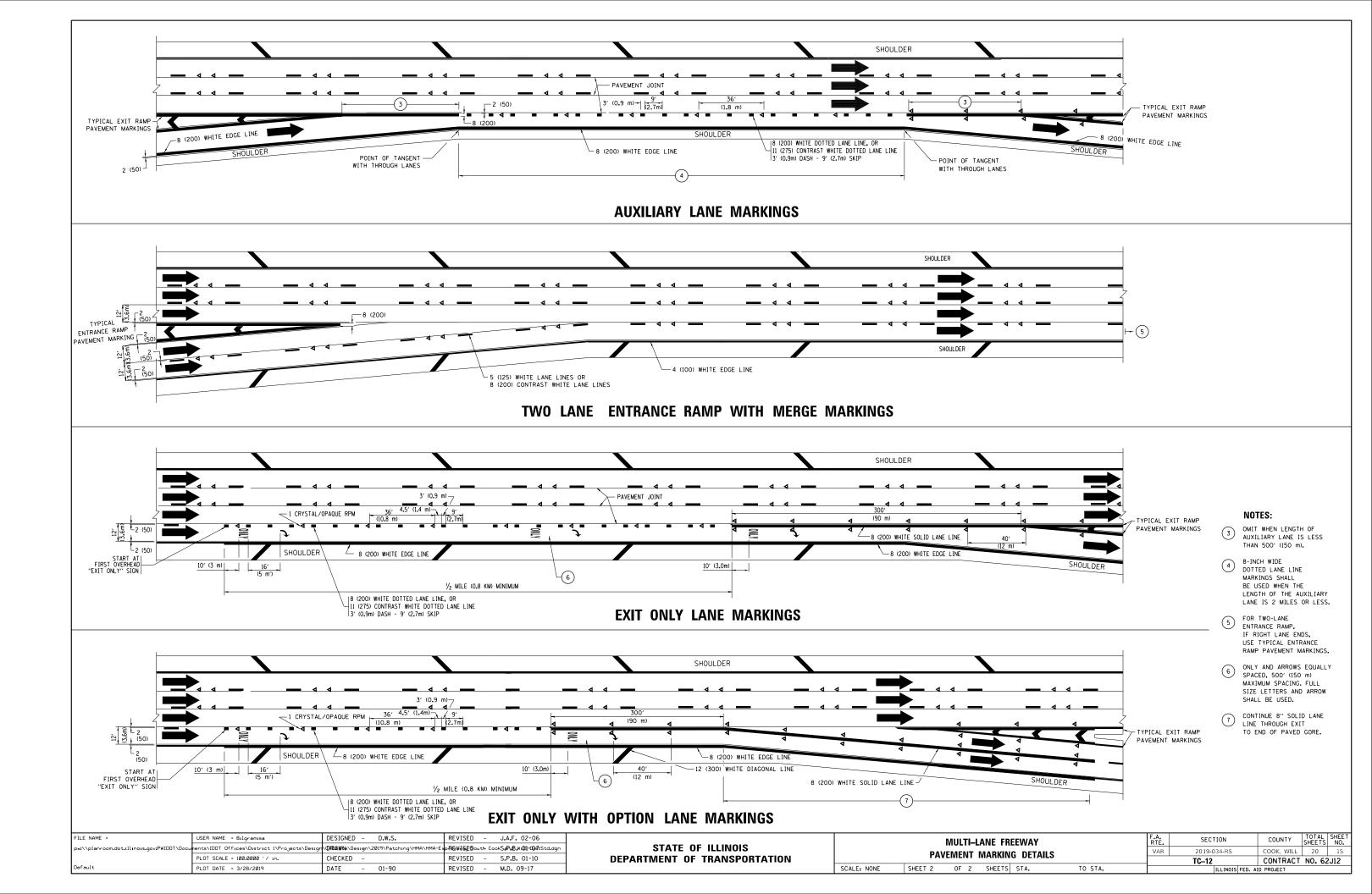
W24-1-48

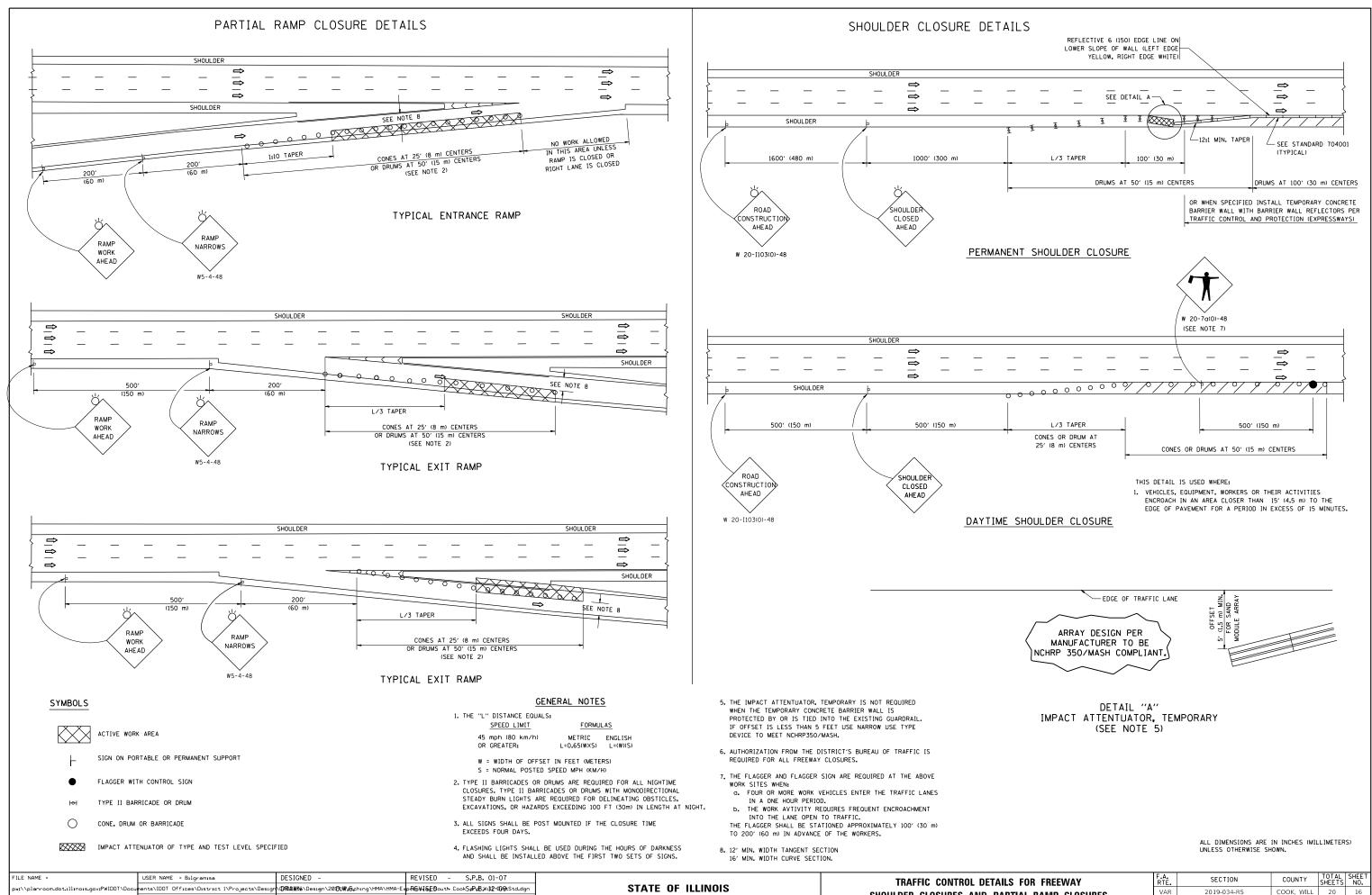
7

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

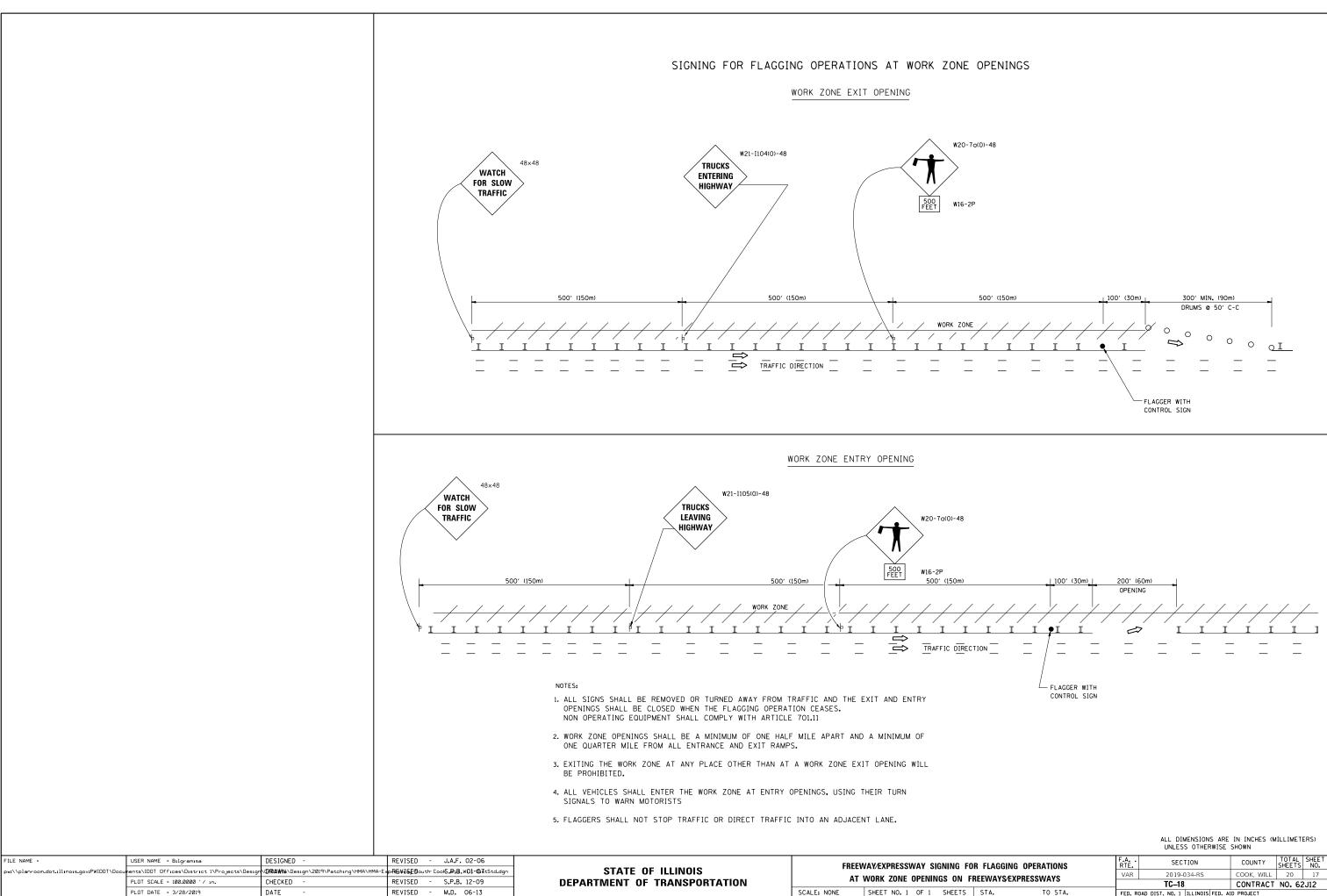
DE	DETAILS FOR ILTI-LANE WEAVE			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				2019-034-RS	COOK, WILL	20	13	
		VLAVL	_	TC-09 CONTRACT NO. 62J12				
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT			





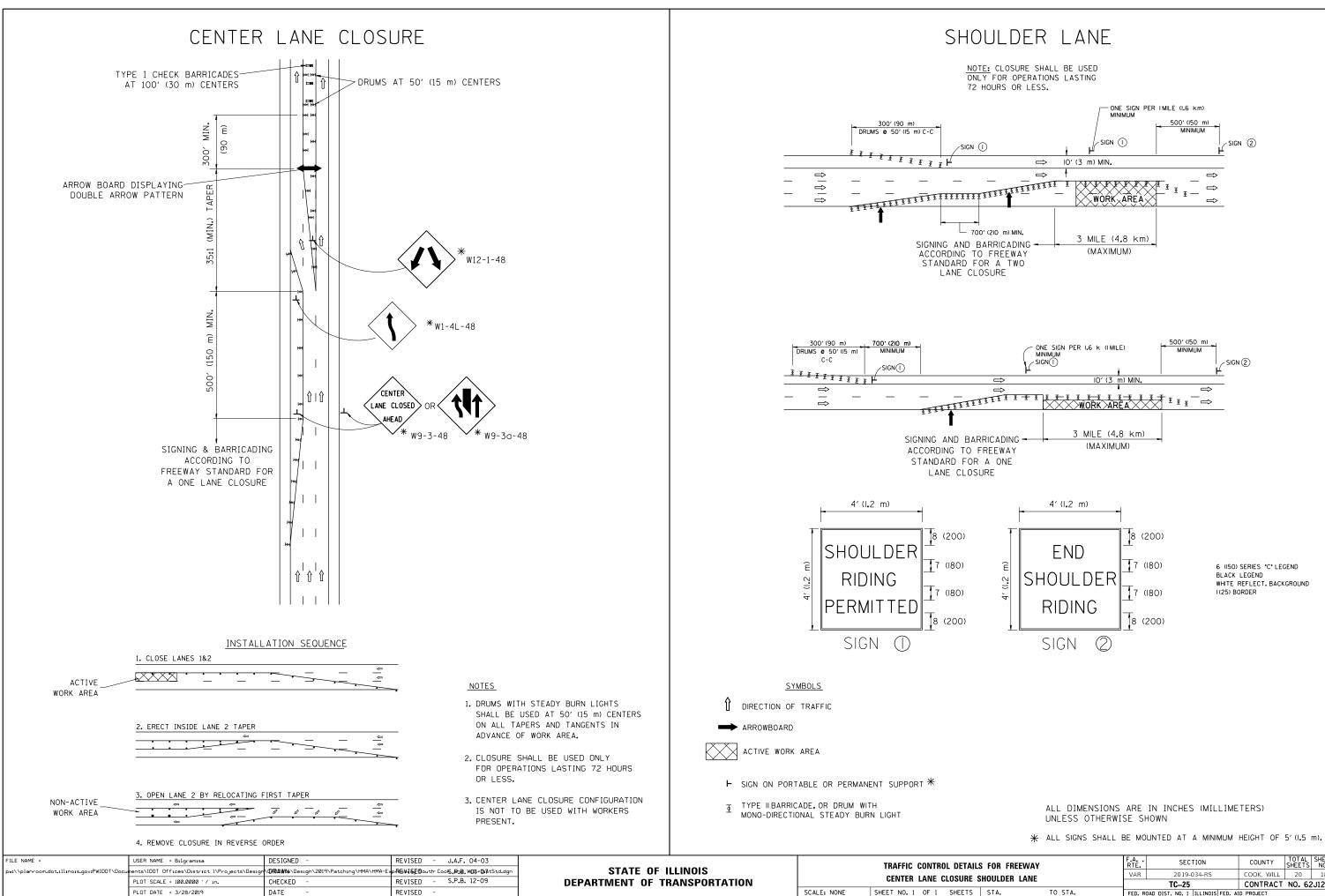


F	ILE NAME =	USER NAME = Bilgramisa	DESIGNED -	REVISED - S.P.B. 01-07			TRAFFIC CONTROL DETAILS FOR FREEWAY			SECTION	COUNTY TOTAL SHEET SHEETS NO.
p	w://planroom.dot.illinois.gov:PWIDOT/Docu			xprRsVI&EDouth CookSrABW12-009tStd.dgn		e			VAR	2019-034-RS	COOK, WILL 20 16
		PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - M.D. 06-13	DEPARTMENT OF TRANSPORTATION				_	TC-17	CONTRACT NO. 62J12
Ľ	əfault	PLOT DATE = 3/28/2019	DATE – 11-96	REVISED - M.D. 01-18		SCALE: NONE				ILLINOIS FED.	AID PROJECT



ALL	DIME	NSIONS	ARE	IN	INCHES	(MILLIMETERS)
LINI	ECC	OTHERW	ICE	SHU	WN	

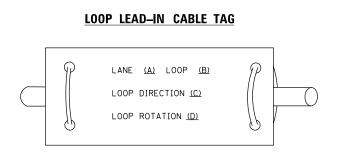
FO	R FLAGGIN	G OPERATIONS	F.A RTE.	SECTION	COUNTY TOTAL SHEE SHEETS NO.			
CC				2019-034-RS	COOK, WILL	20	17	
FREEWAYS/EXPRESSWAYS				TC-18	CONTRACT	NO. 62	2J12	
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT			



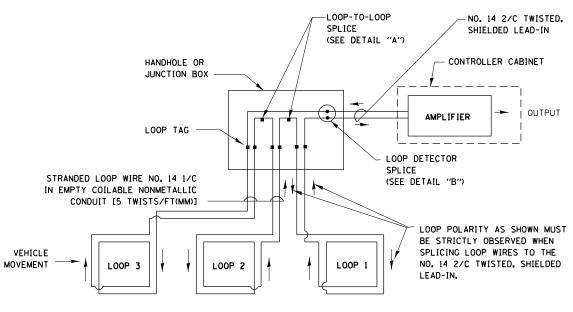
ILS	LS FOR FREEWAY			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SHOULDER LANE		VAR	2019-034-RS	COOK, WILL	20	18
	HUULDEN		TC-25 CONTRACT NO				2J12
e - 1	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

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.

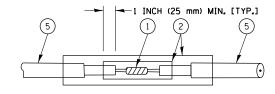


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

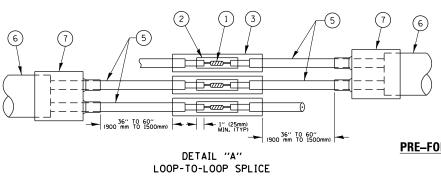


DETECTOR LOOP WIRING SCHEMATIC

- 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.



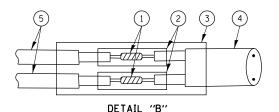
DETAIL "A" LOOP-TO-LOOP SPLICE



LOOP DETECTOR SPLICE

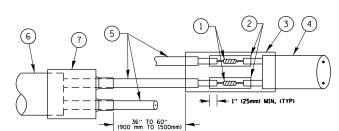
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO.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

FILE NAME =	USER NAME = Bilgramisa	DESIGNED -	REVISED -			DISTRICT ONE	F.A. RTF.	SECTION	COUNTY TOTAL SHEET
pw://planroom.dot.illinois.gov:PWIDOT/Docu	ments\IDOT_Offices\District_l\Projects\Design		xpi REs¥√SEB outh Cook and Will-DistStd.dgn	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.		VAR	2019-034-RS	COOK, WILL 20 19
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				TS05	CONTRACT NO. 62J12
Default	PLOT DATE = 3/28/2019	DATE -	REVISED -					ILLINOIS FED.	AID PROJECT



LOOP-TO-CONTROLLER SPLICE

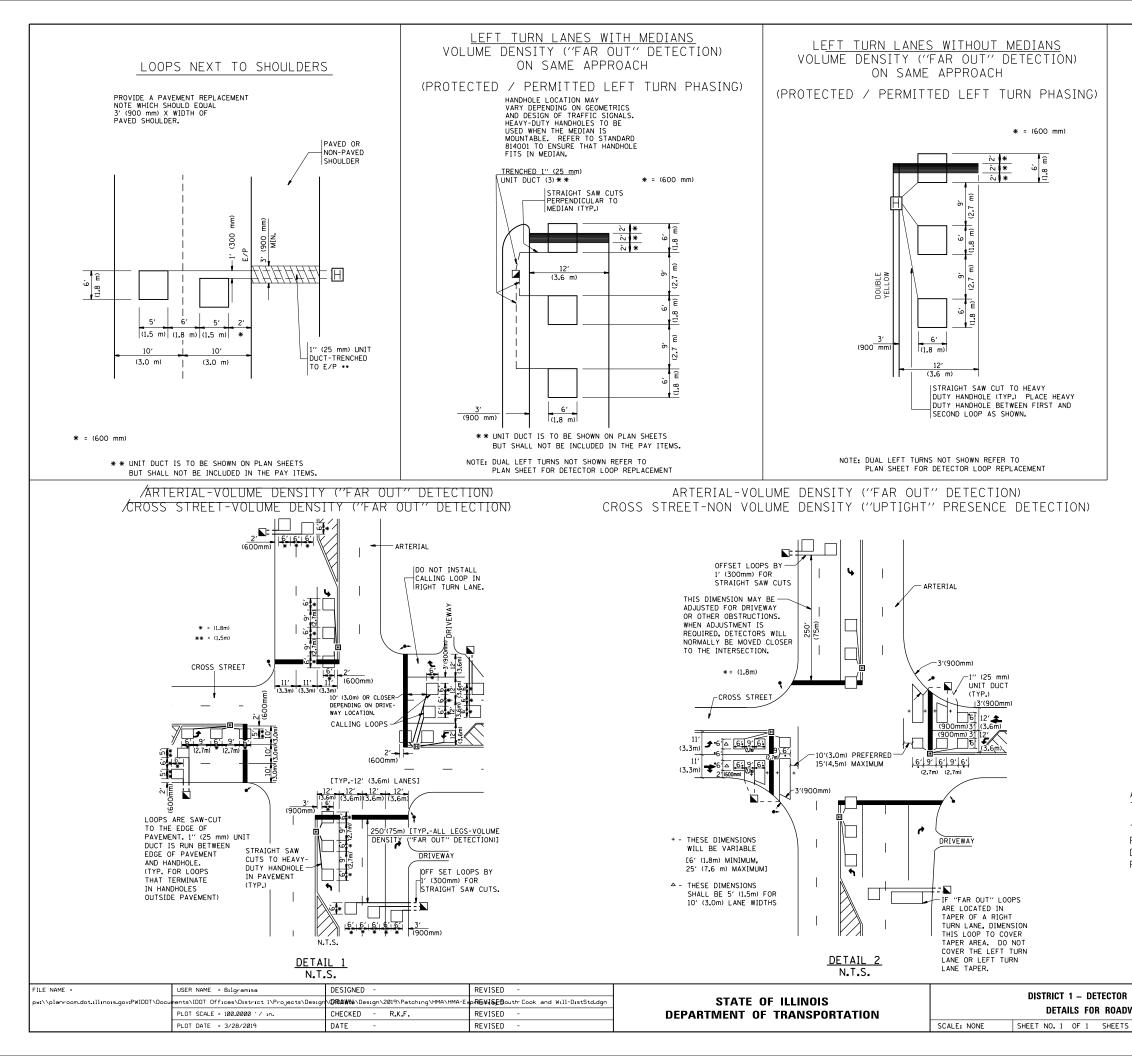
TYPE I LOOP



PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

	(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.

LOOP INSTALLATION WAY RESURFACING		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		VAR	2019-034-RS	COOK, WILL	20	20		
			TS-07	CONTRACT	NO. 62	2J12		
	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				