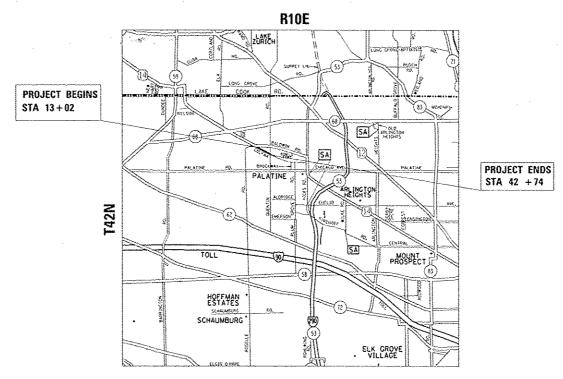
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISON OF HIGHWAYS** 

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 3508: COLFAX STREET
US 14 (NORTHWEST HWY) TO QUENTIN ROAD
SECTION: 2016-042RS
PROJECT: ACM-3508(002)
RESURFACING (3P)
COOK COUNTY
C-91-425-16



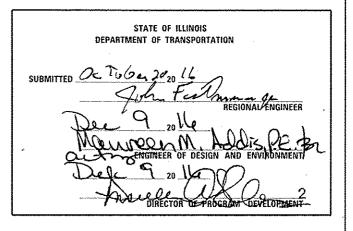
PALATINE TOWNSHIP

GROSS LENGTH = 3043 FT. = 0.58 MILE NET LENGTH = 3043 FT. = 0.58 MILE D-91-425-16

ILLINOIS CONTRACT NO. 62007

2016-042RS





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO.

THIS PROJECT IS LOCATED IN THE VILLAGE OF PALATINE

TRAFFIC DATA:

0

2014 ADT: 5050 SPEED LIMIT: 40 MPH

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' 

1"= 40'
0 50' 100' — 1"= 30' — 1"= 20'

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

0

PROJECT ENGINEER KARI SMITH (847) 705–4437
PROJECT MANAGER FAWAD AQUEEL (847) 705–4247

CONTRACT NO. 62D07

### INDEX OF SHEETS

ARTERIAL ROAD INFORMATION SIGN (TC-22)

DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

19

20

SHEET NO.	DESCRIPTION	000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
1	COVER SHEET	442201-03	CLASS C AND D PATCHES
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	604001-0 <b>H</b>	FRAME AND LIDS. TYPE 1
3~4	SUMMARY OF QUANTITIES		The same same same same same same same sam
5-6	TYPICAL SECTIONS	606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE
7-8	ROADWAY AND PAVEMENT MARKING PLANS		CURB AND GUTTER
9-10	DETECTOR LOOP REPLACEMENT SHEETS	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
11	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
12	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701311-03	LANE CLOSURE 2L, 2W. MOVING DAY OPERATIONS - DAY ONLY
13	CURB AND CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701311-03	LANE CLOSURE ZE, ZW, MOVING DAT OFFRATIONS - DAT UNLT
14	BUTT JOINT AND HMA TAPER DETAILS (80-32)	701501-06	URBAN LANE CLOSURE, 2L. 2W. UNDIVIDED
15	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)	701502- <b>07</b>	URBAN LANE CLOSURE, 2L. 2W, WITH BIDIRECTIONAL LEFT TURN LANE
16	TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
17	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)		
18	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE

701901-*06*0

### GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED).
- 10 FEET (3 METER) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER
  AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTERS AND MEDIANS IN THE FIELD,
  UNLESS OTHERWISE SHOWN, THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT
  UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF PALATINE,
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- 6. 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, CURB AND GUTTER REMOVAL AND REPLACEMENT AND DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 9. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- 10. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 11. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 12. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 13. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS, AND 1 INCH. WHERE THE SPEED LIMIT IS OVER 40 MPH, WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- 14. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 15. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- 16. THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC FIELD ENGINEER VIA EMAIL AT CORY JUCIUS VILLINOIS.GOV A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 17. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK,

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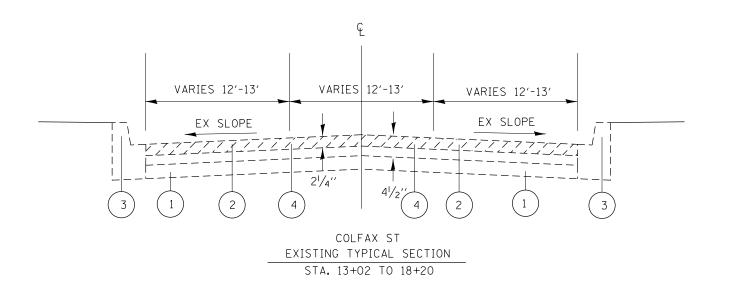
STATE STANDARDS

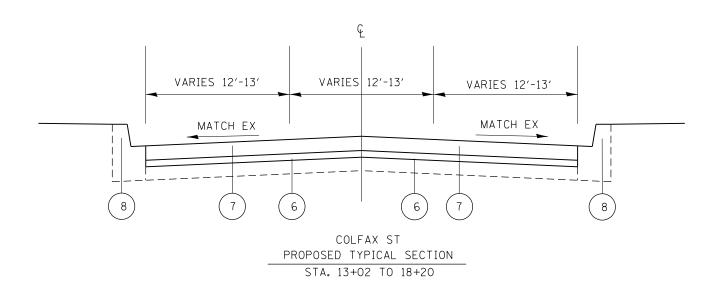
TRAFFIC CONTROL DEVICES

INDEX	OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	F.A.U. RTE. 3508
	COLFAX ST (US 14 TO QUENTIN RD)	3508
1"=50"	SHEET NO. SCUPGS of STOPGS STA. TO STA.	FED. RC

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	SUMMARY OF QUANTITIES					CONSTRUCT	ION TYPE C	CODE	<del></del>		SUMMAR	RY OF QUANTITIES				C	ONSTRUCTI	ON TYPE C	ODE	
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21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	8	8					100 miles	44201777	CLASS D PATCH	HES. TYPE II. 11 INCH	SO YD	553	553					
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25000400	NITROGEN FERTILIZER NUTRIENT	POUND		1					The state of the s	44201781	CLASS D PATCH	ES, TYPE III, 11 INCH	SO YD	104	104					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1	1 1					от при	44201783	CLASS D PATCH	HES, TYPE IV, 11 INCH	SO YD	195	195					
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25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	-	1						48102100	AGGREGATE WED	DGE SHOULDER, TYPE B	TON	125	125					
25200110	SODDING, SALT TOLERANT	SO YD	8	8						60300105	FRAMES AND GR	RATES TO BE ADJUSTED	EACH	1	1	·	ATTENDED OF THE PARTY OF THE PA			
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25200200	SUPPLEMENTAL WATERING	UNIT	1	1						67000400	ENGINEER'S FI	ELD OFFICE, TYPE A	CAL MO	6	6		The state of the s			
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40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6625	6625	1				endendervekstag ekodese	67100100	MOBILIZATION		LSUM	1	1					
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	15	15					edrificiality printered annichous	70102620	TRAFFIC CONTR	ROL AND PROTECTION,	LSUM	1	1	A CALL AND				
	FLANGEWAYS										STANDARD 7015	501								
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	405	405	and the same of th					70102622	TRAFFIC CONTR	ROL AND PROTECTION.	LSUM	1	der	Annual de la constante de la c			·	
	METHOD), IL-4.75, N50	Andrews and the construction					10 10 10 10 10 10 10 10 10 10 10 10 10 1		-		STANDARD 7015				and statement the statement of the state	A CONTRACTOR AND A CONT			<del> </del>	
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40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	42	42	***************************************					70102635	TRAFFIC CONTR	ROL AND PROTECTION,	LSUM	1	1		A PARTIE MANAGEMENT AND A PART			
	THIOL					-					STANDARD 7017	701				to the control of the	nanya samuja nyaéta nan		· · · · · · · · · · · · · · · · · · ·	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX	TON	825	825					The state of the s	70102640	TRAFFIC CONTR	ROL AND PROTECTION,	LSUM	1						
	"D", N70				The state of the s	***************************************			1		STANDARD 7018	301								
42001300	PROTECTIVE COAT	SO YD	9	9	Annual An	*************************			***************************************	70300100	SHORT TERM PA	VENENT MARKING	FOOT	1698	1698		THE PROPERTY OF THE PROPERTY O			
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44000158		SQ YD	9815	9815						70300150	SHORT TERM PA	VEMENT MARKING REMOVAL	SQ FT	566	566		A 100 Miles			
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-	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SO FT	155	155				ender de la constructiva de la c	AL ALAMAN PARTY AND	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	50	50	***************************************			
	. 3 .	SYMBOLS									- International Control of Contro	REMOVAL							
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	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10109	10109						<b>*</b> 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	2	2				
								***************************************			1	INSTALLATION		***************************************	110000	4			
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2607	2607				-	ļ			-						
							***	-			<b>*</b> 88600600	DETECTOR LOOP REPLACEMENT	FOOT	242	242				
-	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	184	184		**************************************	ļ										1	
					and developed the second		and the state of t	-	-	-	<b>*</b> 89502378	REBUILD EXISTING HANDHOLE TO HEAVY-DUTY	EACH	2	2	-	-		
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	101	101					-		HANDHOLE							
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	4334	4334					-	X0327980	PAVEMENT MARKING REMOVAL - WATER	SO FT	5215	5215		Alleman de la companya de la company		
l				-					-		1	BLASTING							
*	78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	155	155				<del> </del>										
		LETTERS AND SYMBOLS									X2020110	GRADING AND SHAPING SHOULDERS	UNIT	60	60				
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	10109	10109						D x5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	50	50				
		4"	***************************************			rings-Ay-vas-ring rings							***						
			Table de la company de la comp								x6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2				
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	2607	2607				-		Antonia	(SPECIAL)	THE PERSON NAMED IN COLUMN NAM						
		6"							-										
	-		-			Andrease and a second a second and a second and a second and a second and a second	-	-			Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	50	50				-
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	184	184			-	A COLUMN TO THE	West states	Annual Andreas	REMOVAL AND REPLACEMENT							
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اند	70000050	TOTOLOGU ACTIC DAUGIGUT MADVING : INC	FOOT	101	101	ur de		er militario de la companio della co	A. A. Carrier Co.		Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5				-
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	1 7001	101	101	**************************************	1		ange ange ange ange ange ange ange ange	And the state of t	Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
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*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	75	75														
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### LEGEND

- (1) EXISTING P.C.C. PAVEMENT, 9"
- 2 EXISTING HOT-MIX ASPHALT,  $4\frac{1}{2}$ "
- (3) EXISTING CURB AND GUTTER
- $\begin{pmatrix} 4 \end{pmatrix}$  PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL,  $2^{1}/4^{\prime\prime}$
- 5 AGGREGATE SHOULDER
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50,3/4"
- 7 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 11/2"
- 8 PROPOSED CURB AND GUTTER
  (LOCATIONS TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS  MIXTURE TYPE  AIR VOIDS											
AIR VOIDS @ Ndes	PROGRAM (QMP)										
4% ⊚ 70 GYR.	QC/QA										
3.5% @ 50 GYR.	QC/QA										
4% @ 70 GYR.	QC/QA										
	@ Ndes 4% @ 70 GYR. 3.5% @ 50 GYR.										

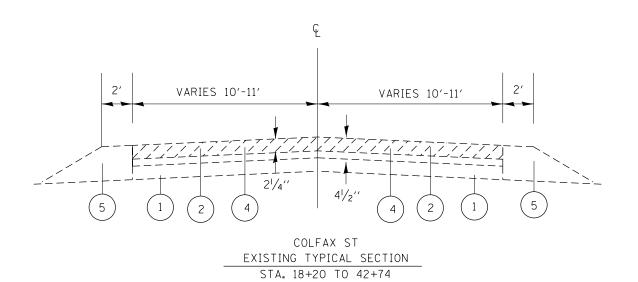
THE UNIT WEIGHT TO BE USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

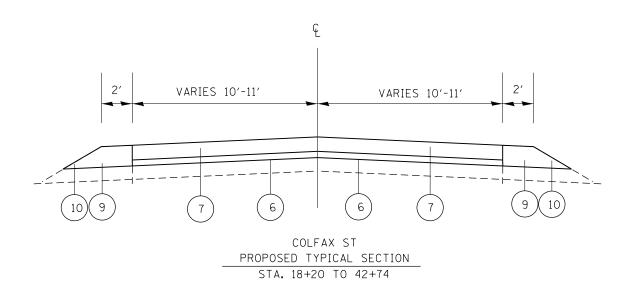
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

OUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

NOTE: THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

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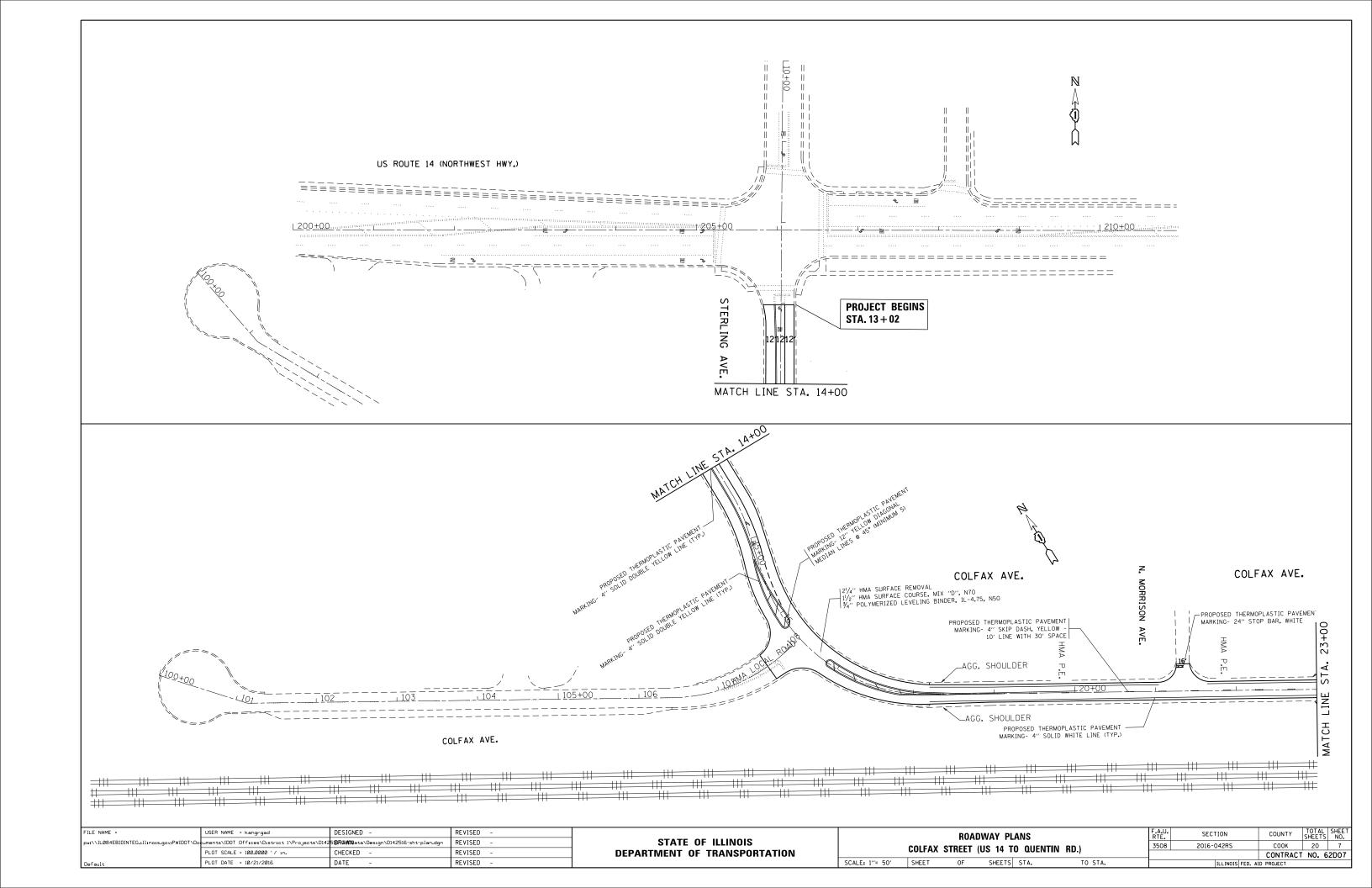


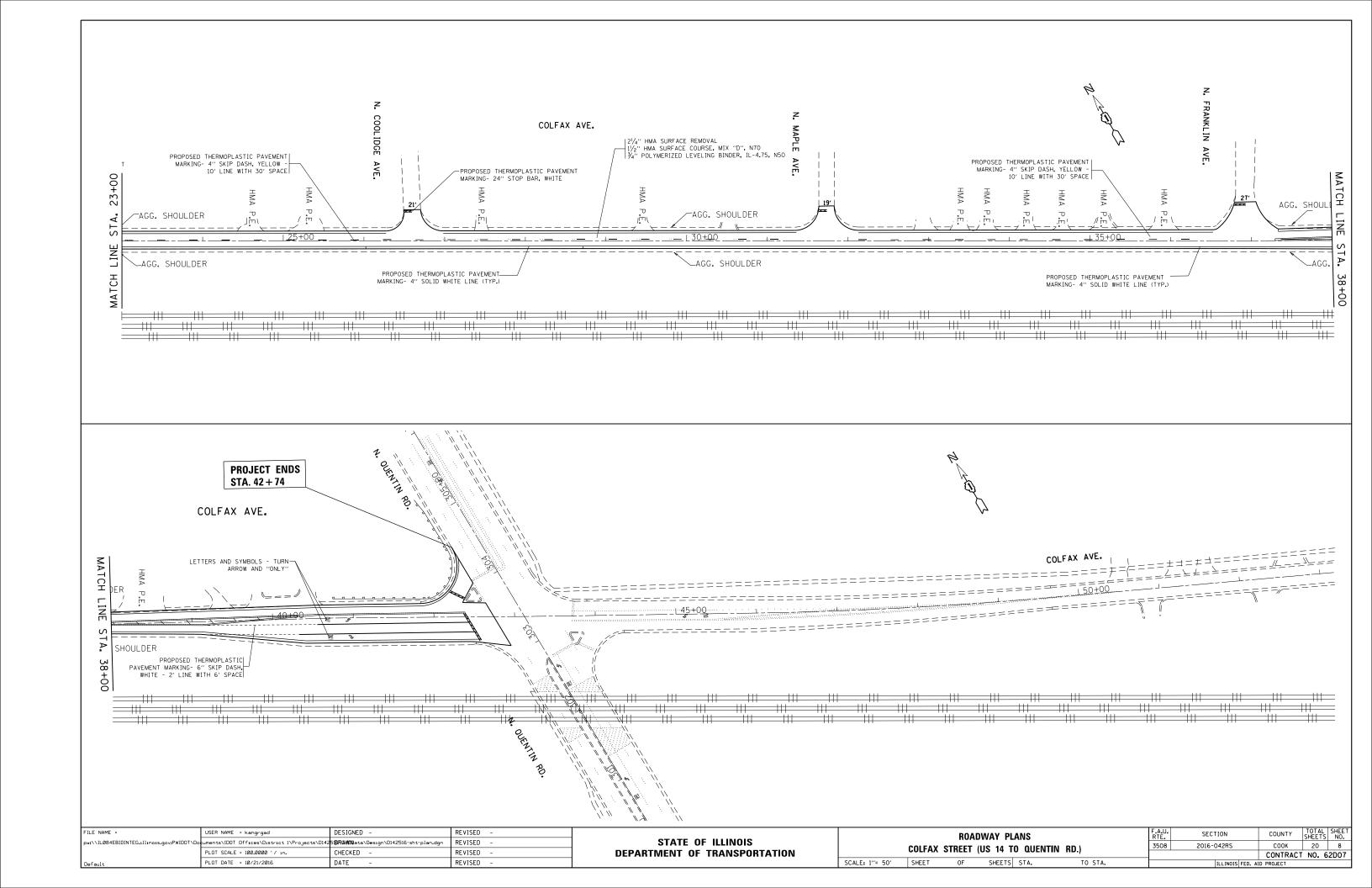


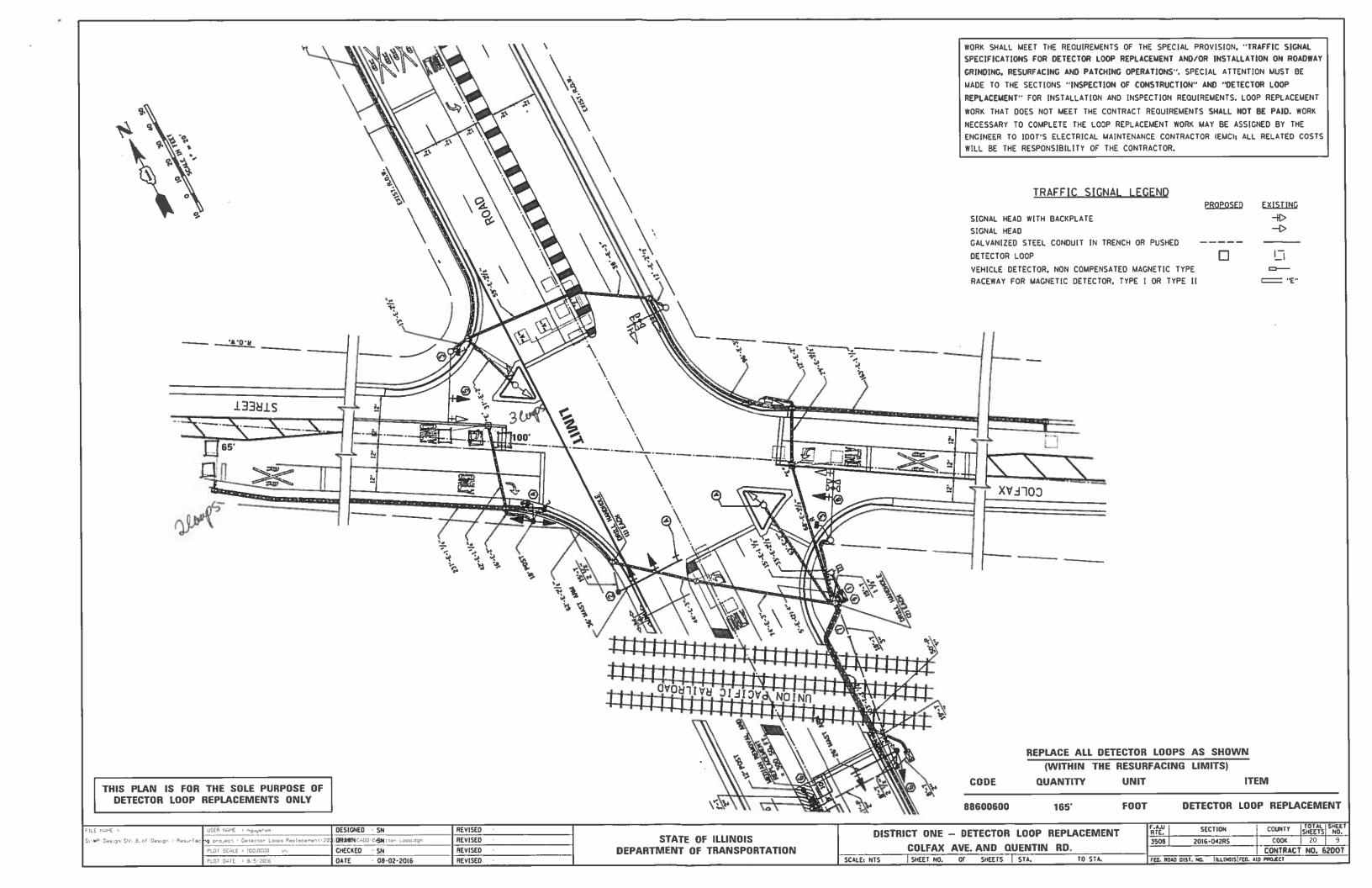
### \_LEGEND

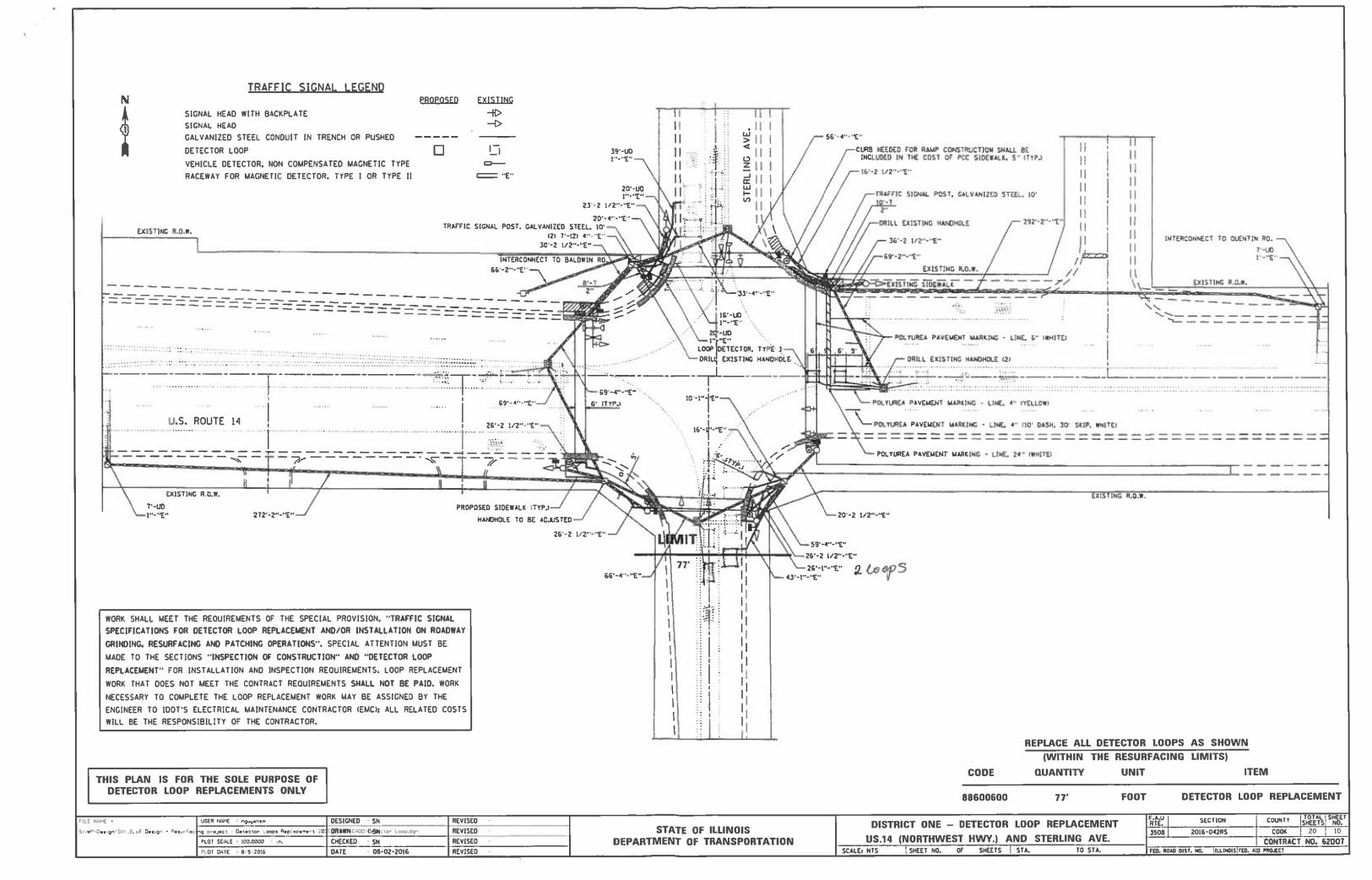
- (1) EXISTING P.C.C. PAVEMENT, 9"
- (2) EXISTING HOT-MIX ASPHALT,  $4\frac{1}{2}$ "
- 3) EXISTING CURB AND GUTTER
- 4) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 21/4"
- 5) AGGREGATE SHOULDER
- 6 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50,3/4"
- 7 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 11/2"
- 8 PROPOSED CURB AND GUTTER (LOCATIONS TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER)
- (9) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (10) PROPOSED GRADING AND SHAPING SHOULDERS

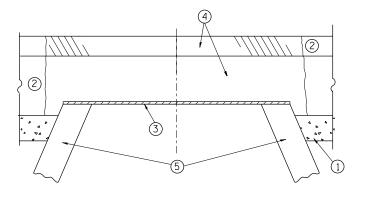
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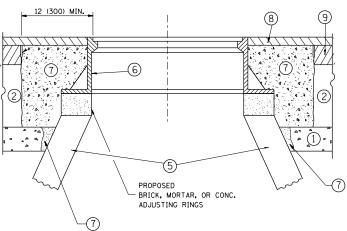












EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109,04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED. THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

SCALE: NONE

### CONSTRUCTION PROCEDURES

### STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

  D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

### STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\*
  CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING
  BASE COURSE OR THE BINDER COURSE.
- \* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE FINGINEFR."

### LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1\* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

### LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

### BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL),"

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

# DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

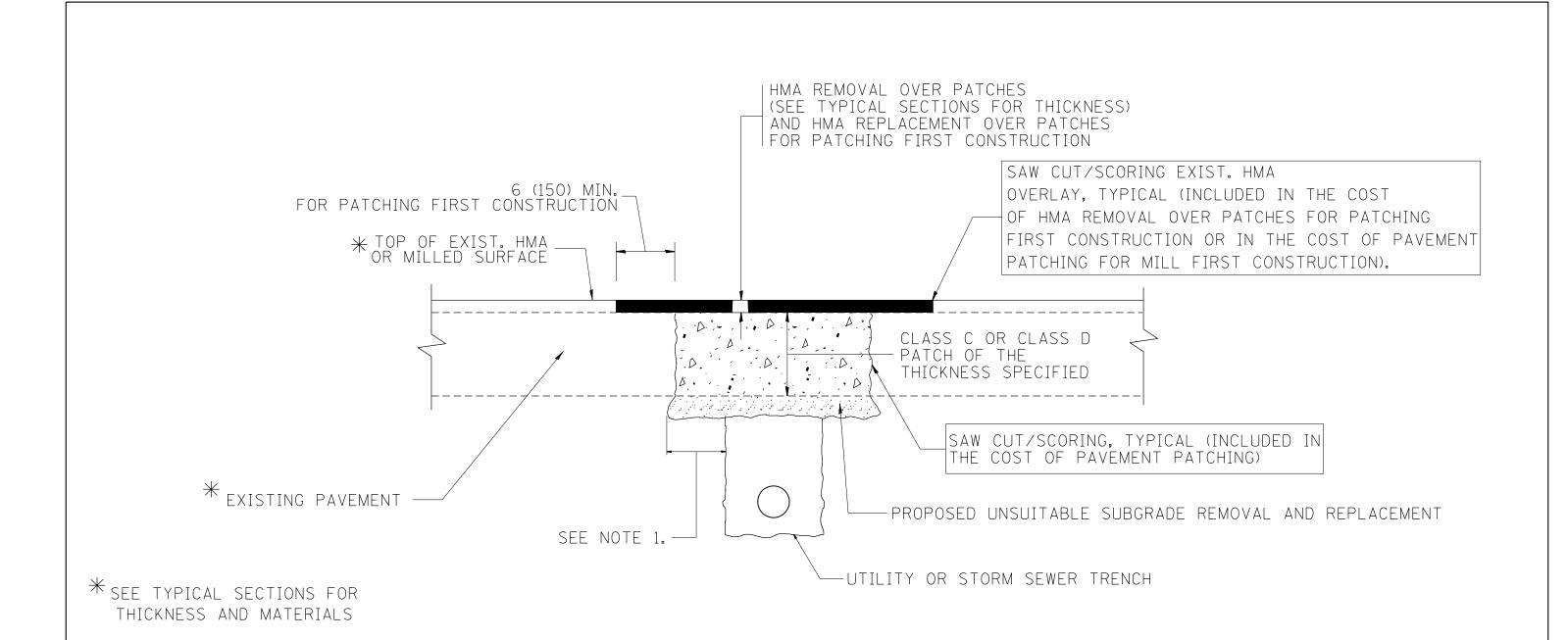
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

20 11

FILE NAME =	USER NAME = kangrgad	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
pw:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D142	51 <b>BRAWIN</b> ata\Design\Diststd.dgn	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 10/21/2016	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DE	TAILS FO	R			F.A. RTE.	· SEC	TION		COUNTY
RAMES AND LIDS ADJUSTMENT WITH MILLING						3508	2016-	042RS		COOK
THAINES AND	LIDS	ADJUSTN	LIVI VVIIII	MILLING			BD600-03 (	BD-8)		CONTRA
SHEET NO. 1	OF 1	SHEETS	STA.	TO	STA.	FED.	ROAD DIST. NO. 1	ILL INOIS F	FED. AII	PROJECT



- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

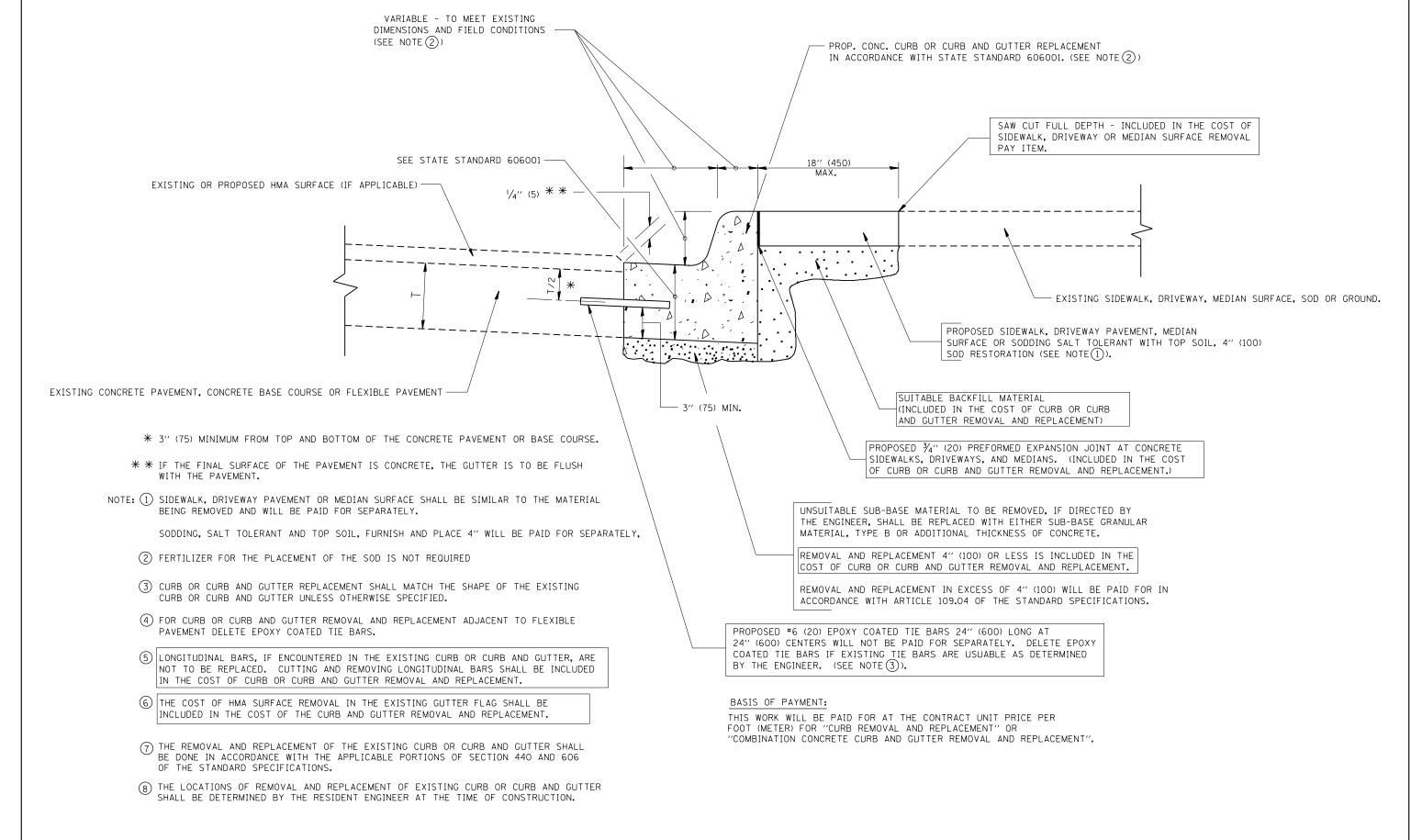
### SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

### SEQUENCE OF CONSTRUCTION (MILLING FIRST)

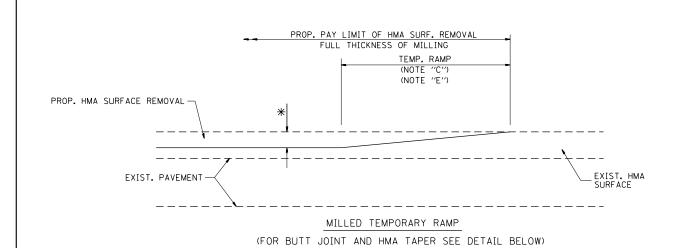
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

FILE NAME =	USER NAME = kangrgad	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR		F.A.U. RTF	SECTION	COUNTY	TOTAL SHEE	<b>.</b> [T]
pw:\\ILØ84EBIDINTEG.:1ll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D14	251 <b>GR(AMD)</b> ata\Design\Diststd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		l l	3508	2016-042RS	соок	20 12	7
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT		BD4	00-04 (BD-22)	CONTRACT	NO. 62D07	_
	PLOT DATE = 10/21/2016	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO ST.	Α.	FFD. ROAD DI		ID PROJECT		$\neg$

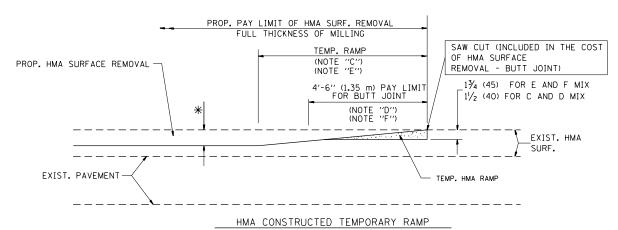


# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

FILE NAME =	USER NAME = kangrgad	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96			CURR OR CURR AND GUTTER		F.A.U.	SECTION	COLINTY	TOTAL SHE
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		REMOVAL AND REPLACEMENT	JVAL AND REPLACEMENT	BD	600-06 (BD-24)	CONTRACT	NO. 62D07
	PLOT DATE = 10/21/2016	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD I	DIST. NO. 1   ILLINOIS FED. AI	D PROJECT	
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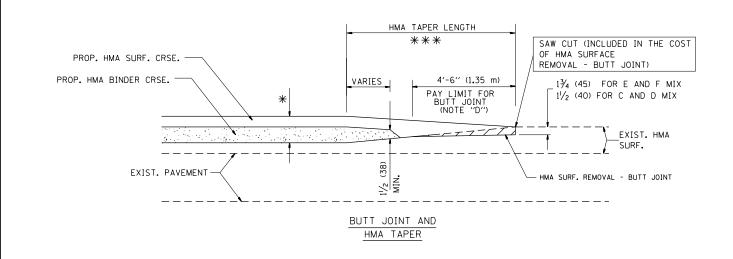
### OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

## OPTION 2

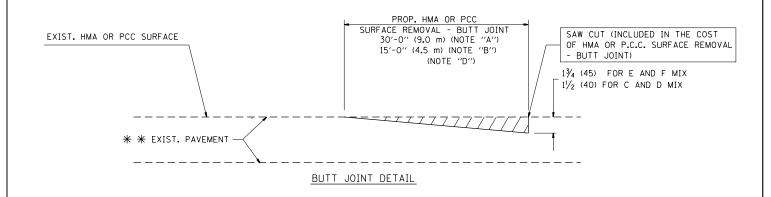
### TYPICAL TEMPORARY RAMP

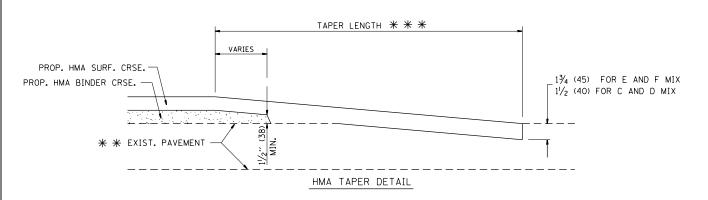


# TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| F.A.U. | SECTION | COUNTY | TOTAL | SHEET | SHORT |





# TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

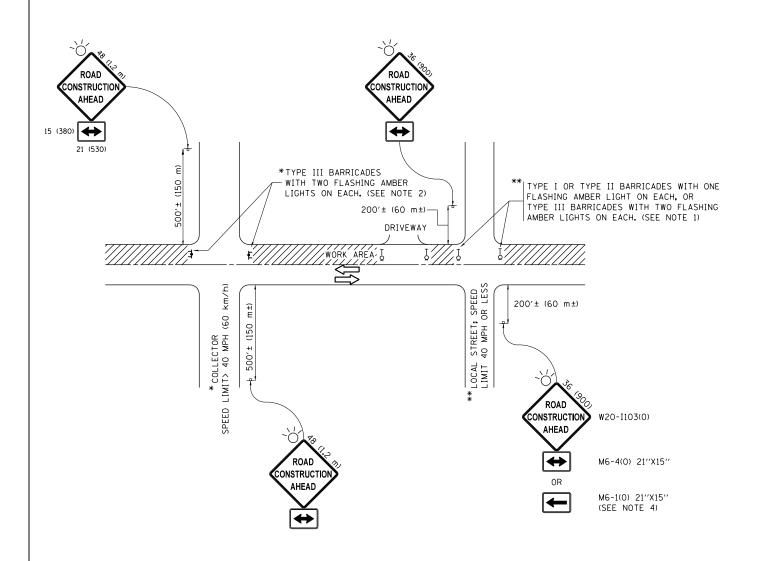
\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

### NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

### BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".



- 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 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  $\times$  48 (1.2 m  $\times$  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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEICHT
- 4. 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).

SCALE: NONE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINFER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

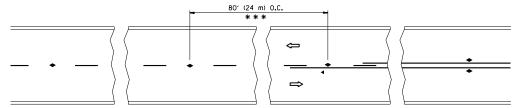
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = kangrgad	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D142	51BR(AND)ata\Design\Diststd.dgn	REVISED -T. RAMMACHER 01-06-00
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Default	PLOT DATE = 10/21/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

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DEPARTMENT	0F	TRANSPORTATION

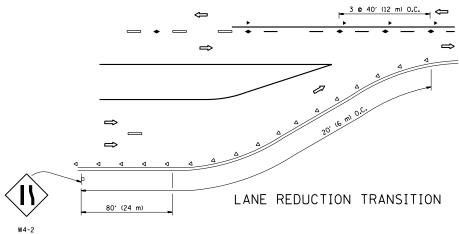
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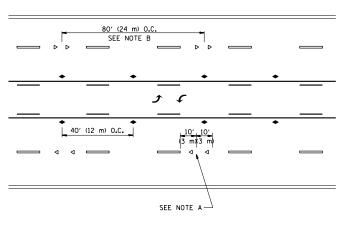
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.		



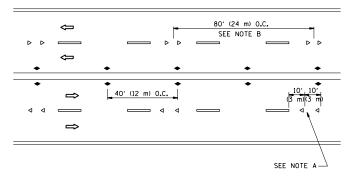
\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

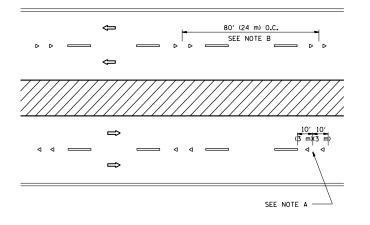




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

### GENERAL NOTES

- 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.

### 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.

### SYMBOLS

---- YELLOW STRIPE

WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

# 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.

### MINIMUM OF 3 W EQUALLY SPACED 3 @ 80' (24 m) O.C. — \_\_\_ 3 @ 80' (24 m) O.C. 3 @ 40' (12 m) 3 @ 40' (12 m) 40' (12 m) 0.C. 40' (12 m) 0.C. ⇔ $\Rightarrow$ ◆ 40′ (12 m) 0.C. 40' (12 m) 0.C. \* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

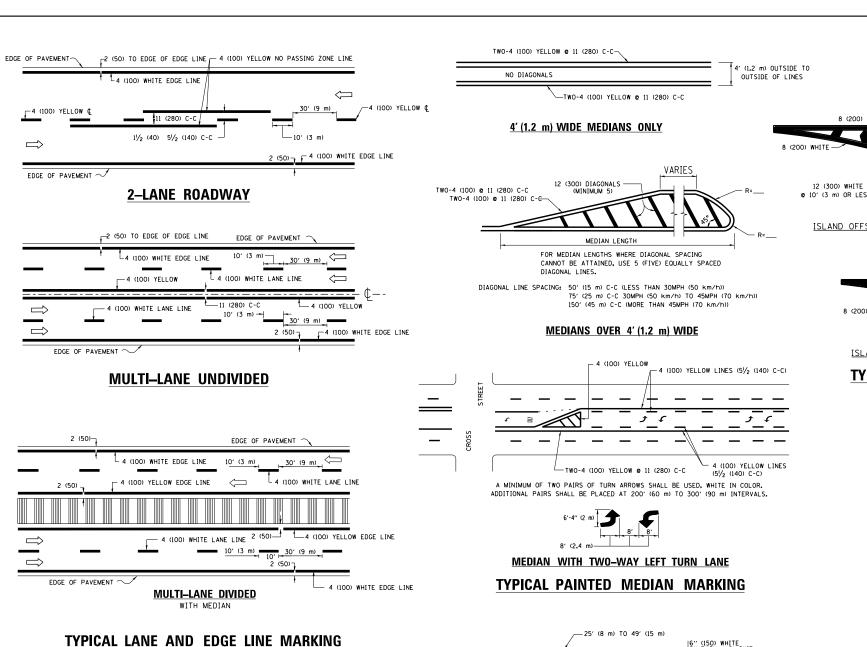
All dimensions are in inches (millimeters) unless otherwise shown.

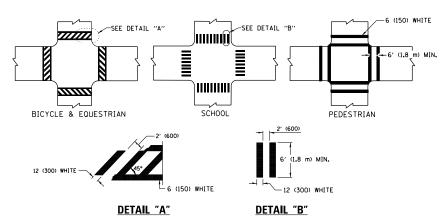
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	T. RAMMACHER 01-06-00
	PLOT DATE = 10/21/2016	DATE -	REVISED	- C. JUCIUS 09-09-09

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	TYPICAL APPLICA	ATIONS		F.A RTE.	SECTION	COUNTY
RAISEN R	EFLECTIVE PAVEMENT MARKEI	Se /SNOW PLOW	REGISTANT\	3508	2016-042RS	COOK
NAISLU N	ELECTIVE PAVEINENT INANKEI		TC-11	CONTRA		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1   ILLINOIS FED. A	ID PROJECT

SECTION COUNTY соок 3508 2016-042RS 20 16 CONTRACT NO. 62D07 TC-11





**TYPICAL CROSSWALK MARKING** 

 $\divideontimes$  MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

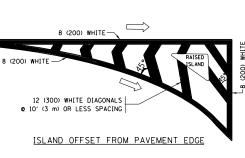
# 8' (2.4 m) TO 49' (15 m) 6' (150) WHITE 2' DASH - 6' SKI (Typ.) 10' (3 m) OVER 200' (60 m) m) OVER 200'

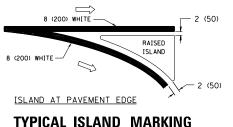
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SQ. FT. (1.5 m²) )

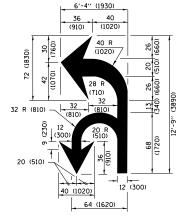
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

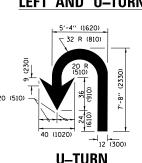
TYPICAL TURN LANE MARKING

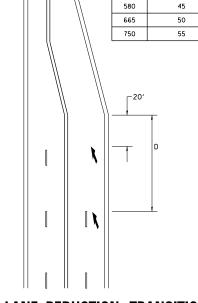






### COMBINATION LEFT AND U-TURN





D(FT)

345

425

500

SPEED LIMIT

### LANE REDUCTION TRANSITION

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 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 MEDIANS IN YELLOW
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	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (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 CROSSMALK, IF PRESENT. OTHERMISE, 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	DIACONALS: 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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54,0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) <b>©</b> 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 (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

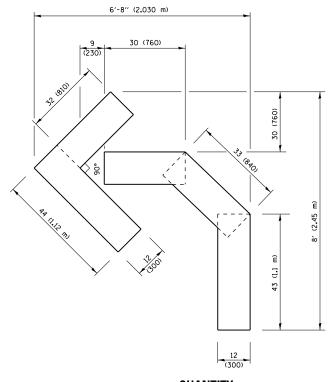
SCALE: NONE

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

FILE NAME = DESIGNED - EVERS USER NAME = kangrgad REVISED - C. JUCIUS 09-09-09 ow:\\ILØ84EBIDINTEG.:111:no: ments\IDOT Offices\District 1\Projects\D142516RQANDOata\Design\Diststd.dgr REVISED -C. JUCIUS 07-01-13 CHECKED REVISED -C. JUCIUS 12-21-15 PLOT DATE = 10/21/2016 DATE 03-19-90 REVISED -C. JUCIUS 04-12-16

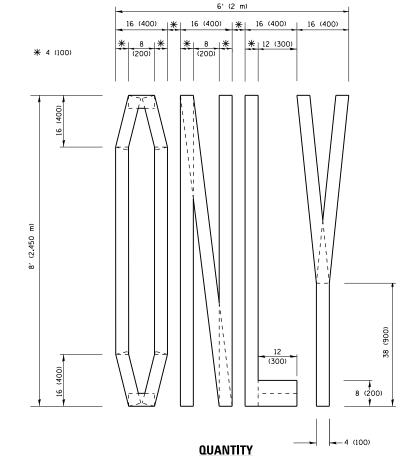
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS	3508	2016-042RS	COOK	20	17
TITIOAL TAVEIVILIVE WANKINGS	TC-13 CONTRA			T NO. 62D07	
SHEET 1 OF 1 SHEETS STA. TO STA.		TILI INDIS EED AT	n ppn iect		

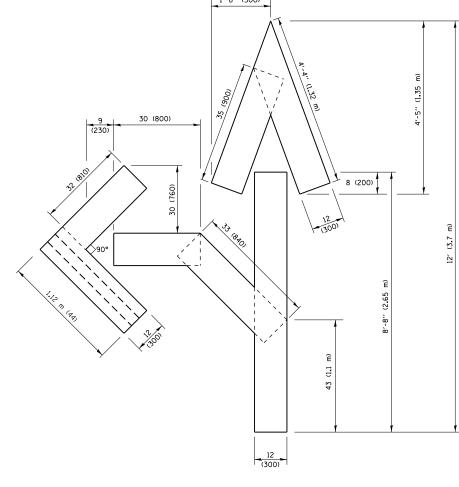


### **QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



4 (100) LINE = 64.1 ft. (19.5 m) 21.4 sq. ft. (1.99 sq. m)

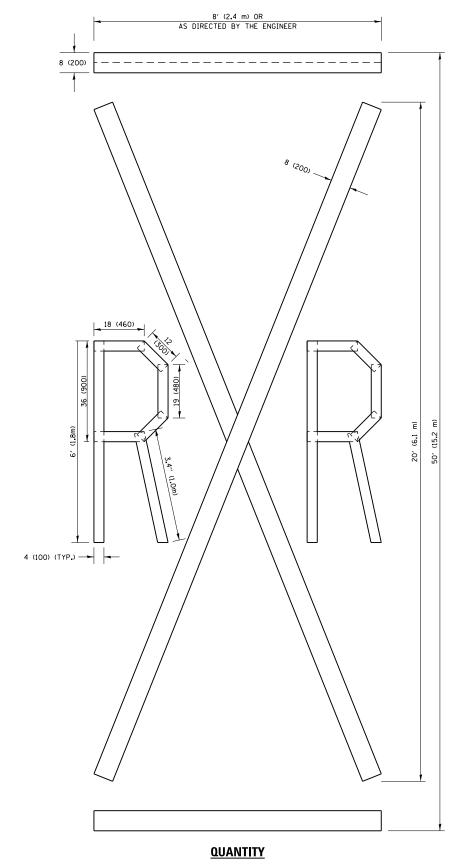


### **QUANTITY**

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

### NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



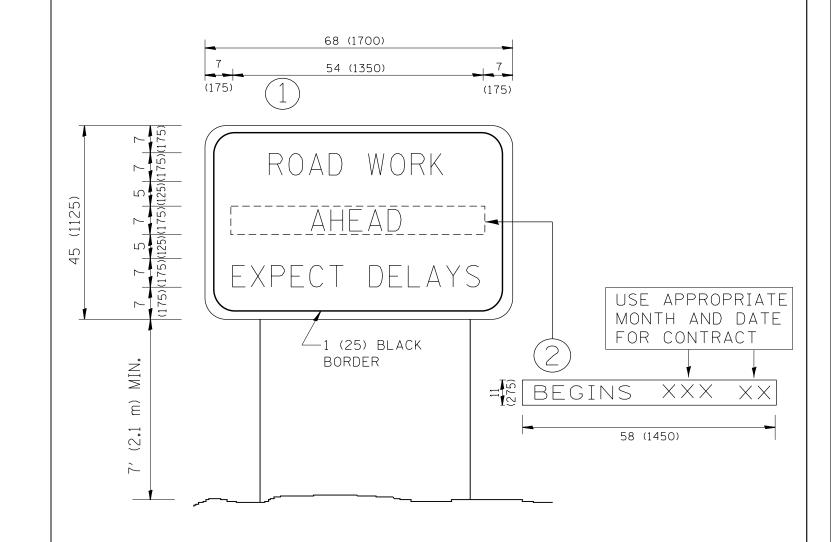
4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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

FILE NAME =	USER NAME = kangrgad	DESIGNED -	REVISED	-T. RAMMACHER 03-02-98
pw:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D142	51 <b>BRAWIN</b> ata\Design\Diststd.dgn	REVISED	-E. GOMEZ 08-28-00
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-E. GOMEZ 08-28-00
ı	PLOT DATE = 10/21/2016	DATE - 09-18-94	REVISED	- A. SCHUETZE 09-15-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	l R					A.U. TE.	SECTION		TOTAL SHEETS	SHEET NO.
SHORT	TERM PAVEMENT	MARKING	LETTERS AND	SYMBOLS	35	508	2016-042RS	соок	20	18
							TC-16	CONTRACT	NO. 6	2D07
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FFI	ED RO	AD DIST NO 1 THE INDIS FED AT	D PROJECT		



- 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.

F	ILE NAME =	USER NAME = kangrgad	DESIGNED -	REVISED - R. MIF	IRS 09-15-97	·		ARTERIAL RO	AD		F.A.U. RTF	SECTION	COUNTY	CHEETS	SHEET
p	w:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D142	51 <b>BR(AMIN</b> ata\Design\Diststd.dgn	REVISED - R. MIF	IRS 12-11-97	STATE OF ILLINOIS					3508	2016-042RS	соок	20	19
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMA	MACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION	SIGN			TC-22	CONTRACT	NO. 6	62D07
		PLOT DATE = 10/21/2016	DATE -	REVISED - C. JUG	UCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD D	IST. NO. 1   ILLINOIS FED.	ID PROJECT		

# LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER Ê (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNI DUCT-TRENCHED TO E/P •• (3.0 m) (3.0 m) \* = (600 mm)\* \* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

# LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD BLADOL TO ENESURE THAT WARRING! 814001 TO ENSURE THAT HANDHOLE TRENCHED 1" (25 mm) UNIT DUCT (3) \* \* \* = (600 mm) STRAIGHT SAW CUTS PERPENDICULAR TO MEDIAN (TYP.) (3.6 m)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

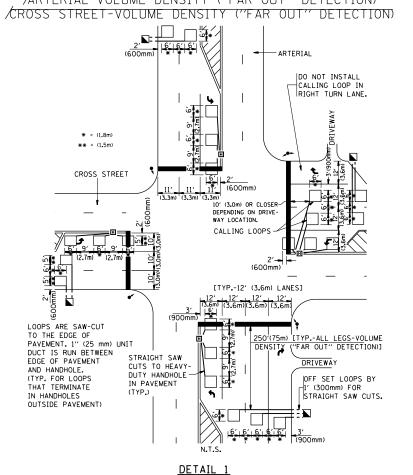
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

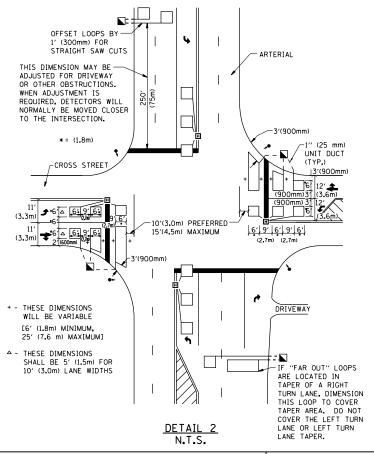
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

(900 mm)

LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) \* = (600 mm) (900 m (1.8 m) (3.6 m) |STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP.) PLACE HEAVY DUTY HANDHOLE BETWEEN FIRST AND SECOND LOOP AS SHOWN. NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)





SCALE: NONE

### NOTES:

### VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED,
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- \* 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 ALL 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, MORE 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. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE 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 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.

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.

FILE NAME = USER NAME = kangrgad			DESIGNED -	REVISED -					
	pw:\\IL084EBIDINTEG.:1ll:nois.gov:PWIDOT\Do	pwi\\ L084EBIDINTEG.illinois.gov:PWIDOT\Dotuments\IDOT Offices\District 1\Projects\D1425@RGWM0ata\Design\Diststd.dgn							
		PLOT SCALE = 100.0000 '/ in.	CHECKED - R.K.F.	REVISED -					
		DLOT DATE - 10/21/2016	DATE -	DEVISED -					

N.T.S.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

DISTRICT 1 – DETECTOR LOOP INSTALLATION  DETAILS FOR ROADWAY RESURFACING					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					3508	2016-042RS	соок	20	20
						TS-07	CONTRACT NO. 62D07		
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT			