STATE OF ||LLINOIS |
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO.

THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA

PROPOSED HIGHWAY PLANS

FAU ROUTE 3902: IL 31 NB (GALE ST)
LAKE ST TO RIVER ST
SECTION 16--Z-1-RS
RESURFACING
KANE COUNTY

C-91-525-09

TRAFFIC DATA

IMPROVEMENT BEGINS

2007 ADT (ONE WAY) = 7000 POSTED SPEED LIMIT = 30 MPH

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 ROBERT BORO (847) 705-4178
PROJECT MANAGER KEN ENG

R 8E

TOLL

SULLIVAN
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MONTGOMERY

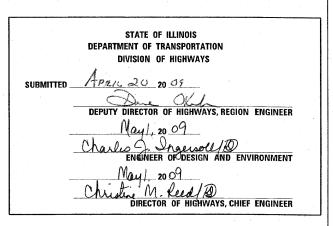
MONTGOM

GROSS AND NET LENGTH = 598 FT. = 0.11 MILE

PROCE AND NET LENGTH - FOR ET - 044 MHE

D-91-525-09





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60G69

GENERAL NOTES:

INDEX OF SHEETS

DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY

RESURFACING (TS-07)

STATE STANDARDS

	0.	DESCRIPTION		STANDARD NO	DESCRIPTION
				442201-03	CLASS C AND D PATCHES
1		TITLE SHEET		602001-01	CATCH BASIN TYPE A
2		INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES		602006 <i>-0</i> 2	CATCH BASIN TYPE B
3		SUMMARY OF QUANTITIES		604001 <i>-03</i>	FRAME AND LIDS, TYPE 1
4	-5	TYPICAL SECTIONS		604021 - 02	BASE, FRAME AND LIDS, TYPE 5
, 6		ROADWAY & PAVEMENT MARKING PLANS		606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
7		DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)		701301- <i>03</i>	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
8		PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT(BD-22)		701306- 02	
. 9		CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)		101308 22	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEED > 45 MPH
10	0	BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS (BD-32)		701311 - <i>03</i>	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
11	ı	TRAFFIC CONTROL AND PROTECTION FOR SIDES ROADS, INTERSECTIONS		701501 - 05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
12	2	AND DRIVEWAYS (TC-10)		701901 - <i>01</i>	TRAFFIC CONTROL DEVICES
		TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)			
13	3	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)			
14		TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)			
15	0	PAVEMENT MARKING LETTER AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	*		
16	6 ·	ARTERIAL ROAD INFORMATION SIGNING (TC-22)			

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF AURORA.

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

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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 (80KM/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 ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (Y:H).

BEFORE BEGINING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND REVISED 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.

THE ENGINEER SHALL CONTACT DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER (OR TECHNICIAN), AT (847) 741-9857 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABBUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

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.

FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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

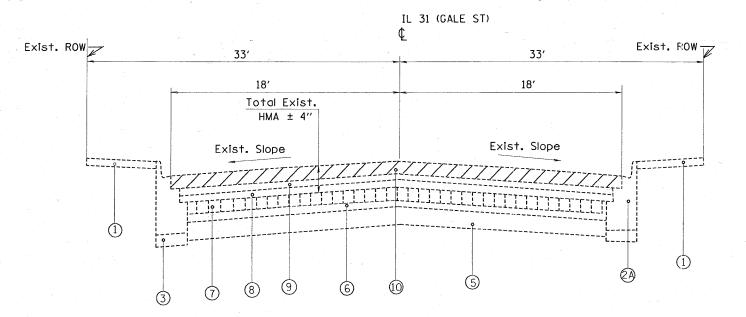
ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

NO VIBRATORY ROLLERS ARE ALLOWED.

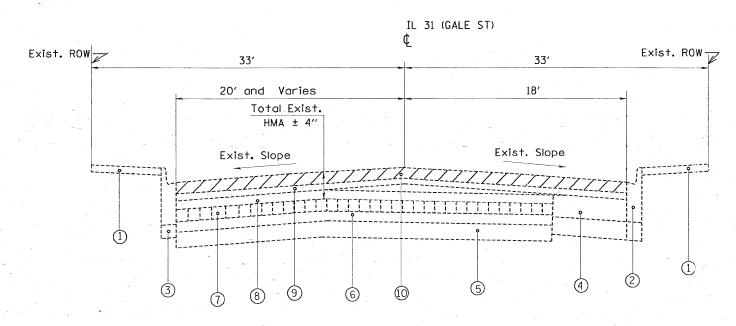
PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

			*	<u> </u>			No. 1		
	FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -		IL RTE 31 /GALE STREET	*	F.A.U SECTION	COUNTY TOTAL SHEET
- 1	•		DRAWN -	REVISED -	STATE OF ILLINOIS		1.80	3902 16-Z-1-RS	KANE 17 2
1.0		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LAKE ST. TO RIVER ST.	, , , , , , , , , , , , , , , , , , ,		CONTRACT NO. 60G69
		PLOT DATE = 4/20/2009	DATE -	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT
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Γ		SUMMARY OF QUANTITIES	*	URBAN IOOO		CĆ	ONSTRUCTION	ON TYPE	CODE		T		SUMMAR	Y OF QUANTITIES	s		INBAN IOOO		С	ONSTRUCT	ON TYPE	CODE	
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				1001.STATE								:					1001.STATE					-	
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1. 2	1.2		-				*	78000200	THERMOPLASTI	C PAVEMENT MARK!	ING	FOOT	1085	1085		-			
-	40600300	AGGREGATE (PRIME COAT)	TON	6	6				;			78000400		C DAVENENT MADE	INC	FOOT	197	197					
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1							78000400	- LINE 6"	C PAVEMENT MARK									
	40600635	LEVELING BINDER (MACHINE METHOD). N70	TON	117	117						*	78000600	- LINE 12"	C PAVEMENT MARK!	ING	FOOT	17	17					
	40600895	CONSTRUCTING TEST STRIP	EACH	1	1		3				*	78000650		C PAVEMENT MARK	ING	FOOT	73	73					
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	93	93					·	*	78100100	- LINE 24" RAISED REFLE	CTIVE PAVEMENT N	MARKER	EACH	34	34					
	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	13.7	13.7							78300200	RAISED REFLE	CTIVE PAVEMENT N	MARKER	EACH	20	20					
	40603340	HOT-MIX ASPHALT SURFACE COURSE,	TON	233.5	233.5						* 8	88600600	DETECTOR LOOP	REPLACEMENT		FOOT	290	290					
		MIX "D", N70									,	x0322256	TEMPORARY IN	FORMATION SIGNIN	NG.	SQ FT	51.4	51.4					
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	2779	2779				. i														
	44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	35	35 ·,				:														
	44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	61	61	¢ '	7										-	`					
	44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	20	20																		
	44201796	CLASS D PATCHES, TYPE IV. 12 INCH	SO YD	35	35				:														
	44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SO YD	2779	2779																		
	50300300	PROTECTIVE COAT	SO YD	8	8							· :											
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2	,	, a Control		د دیا				e de la companya de l		1		1.0				i.i		
	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	4	4																٠.		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	-											1, 1, 1, 1, 1, 1						
	67100100	MOBILIZATION	L SUM	1	1		,							* Spec	ially Hems					4 - 44 1			
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	· · · · · · · · · · · · · · · · · · ·																	
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	343	343			faccion as no server											÷	e e			
	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	109	109														· ·				
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1085	1085			si coma interessi di della di constituta di															
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	197	197			or transmission of the control of th															
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	17	17			CONTRACTOR AND ADMINISTRATION OF THE PARTY O	: 2			-							- -				
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	73	73		A			.49						. 7	-				-		
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	109	109																		
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EXISTING TYPICAL SECTION
STA 4+09.00 TO STA 7+85.00



EXISTING TYPICAL SECTION
STA 7+85 TO STA 10+07.00

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

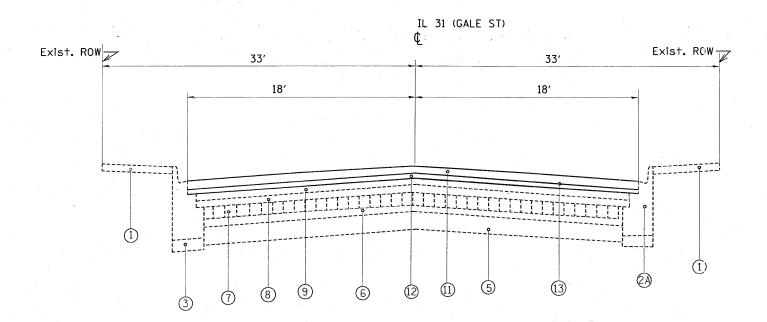
LIEGEND

- 1 EXISTING SODDING
- (2) EXISTING COMB. CONCRETE CURB AND GUTTER
- (A) EXISTING COMB. CONCRETE CURB AND GUTTER, TYPE B-6 24 SPECIAL
- 3 EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (4) EXISTING HMA BASE COURSE ± 9"
- 5) EXISTING PC BASE COURSE, ± 6"
- 6 EXISTING SAND CUSHION ± 2"
- (7) EXISTING BRICK PAVEMENT ± 4"
- (8) EXISTING HMA RESURFACING, ± 1"
- 9 EXISTING AFTER MILLING BINDER COURSE MIX B, TYPE 2, ± 3/4"
- (10) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (11) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (12) PROPOSED LEVELING BINDER (M M), N50, 3/4"
- (13) PROPOSED AREA REFLECTIVE CRACK CONTROL TREATMENT

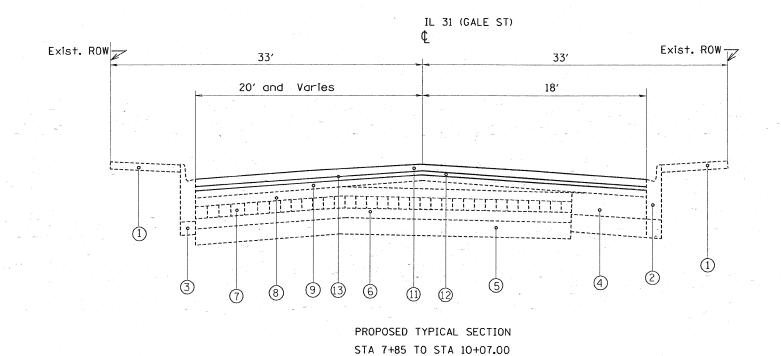
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	EXIST	TING TYP	PICAL SI	ECTIONS	S			3
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PROPOSED TYPICAL SECTION
STA 4+09.00 TO STA 7+85.00



LEGEND

- 1 EXISTING SODDING
- 2 EXISTING COMB. CONCRETE CURB AND GUTTER
- (A) EXISTING COMB. CONCRETE CURB AND GUTTER, TYPE B-6 24 SPECIAL
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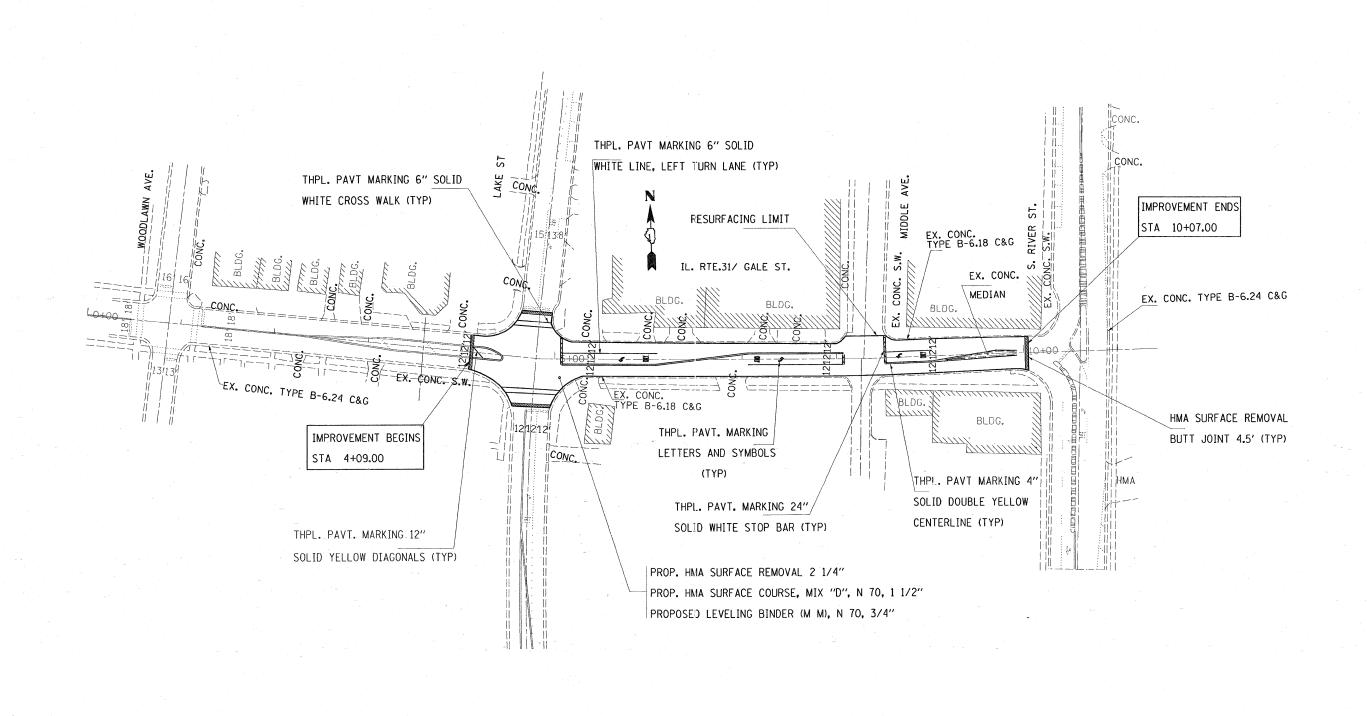
	The state of the s	
HMA MIXTURE REQUIREMENTS		
MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 70. (IL 9.5 mm)	PG 64 -22	4% @ 70 GYR
LEVELING BINDER (MACHINE METHOD), N 70 (IL 9.5 mm)	PG 64 -22 / 58 -22	4% @ 70 GYR
CLASS D PATCHES, (HMA BINDER IL-19mm)	PG 64 -22**	4% @ 70 GYR
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (HMA BINDER IL-19 mm)	PG 64 -22	4% @ 70 GYR

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ. YD/IN.

** When Rap exceeds 20%, the New Asphalt binder in the Mix shall be PG 58-22

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -		IL RTE 31	1 /GALE STREET. I	LAKE STREET TO	RIVER STREET	F.A.U RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
-		DRAWN -	REVISED -	STATE OF ILLINOIS			TYPICAL SECTIONS		3902	16-Z-1-RS	KANE	17 5
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		PROPOSED T	ITPICAL SECTIONS				CONTRAC	CT NO. 60G69
1	PLOT DATE = 4/21/2009	DATE -	REVISED -		SCALE:	SHEET NO. OF	SHEETS STA.	TO STA.	FED. ROAD I	DIST. NO. ILLINOIS FE	D. AID PROJECT	



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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BY IL RTE. 31/GALE ST. RIVER ST.

IL RTE. 31/GALE ST.

LAKE ST. TO RIVER ST.

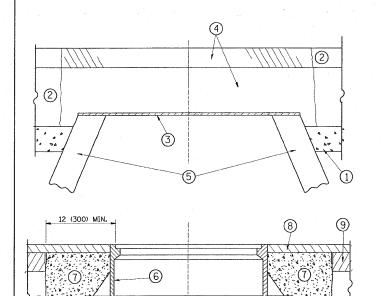
SCALE: 1"=50" SHEET STA.

SHEET NAME = gorengautab DESIGNED- REVISED - COUNTY SHEET NO. 60G69

FAU SECTION COUNTY SHEET NO. 60G69

SCALE: 1"=50" SHEET NO. 0F SHEET STA.

TO STA. FED. AID PROJECT ILLINOIS FED. ROAD DIST. NO. 60G69



PROPOSED

PROPOSED

SAND FILL

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENCINEER, REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 103,04 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.

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

AROUND THE STRUCTURE.

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM

CONSTRUCTION PROCEDURES

- 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 $1^{1}\!\!/_{2}$ (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 SI CONCRETE, OR HMA SURPACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

1 SUB-BASE GRANULAR MATERIAL

PROPOSED SAND FILL

- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 8 PROPOSED HMA SURFACE COURSE

9 PROPOSED HMA BINDER

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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

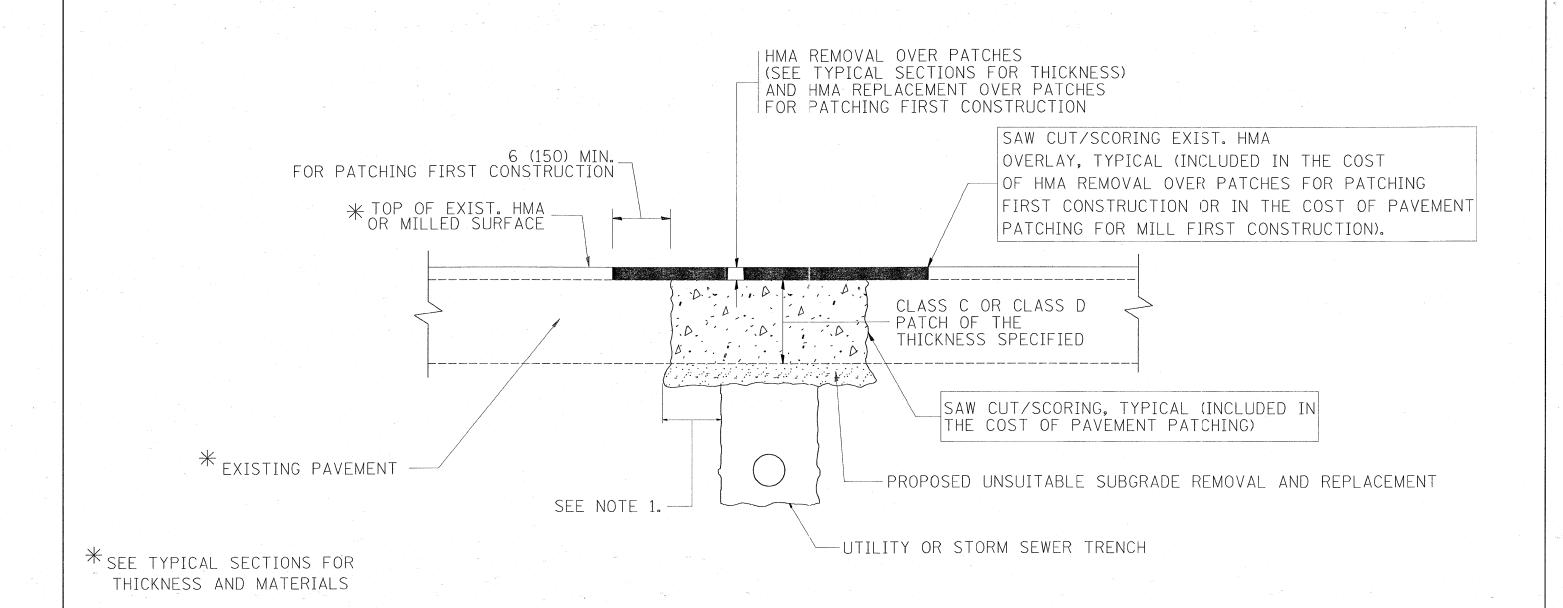
DESIGNED R. SHAH REVISED - R. SHAH 03-10-95 FILE NAME = USER NAME = gorengautab REVISED - A. ABBAS 03-21-97 #\pw_work\PWIDOT\GORENGAUTAB\dØ13873 stStd.dan DRAWN CHECKED REVISED - R. WIEDEMAN 05-14-04 PLOT DATE = 4/17/2009 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING SHEET NO. 1 OF 1 SHEETS STA.

TOTAL SHEET NO. COUNTY 3902 16-Z-1-RS KANE CONTRACT NO. 60G69 BD600-03 (BD-8) FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

WITH MILLING



NOTES:

- 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".

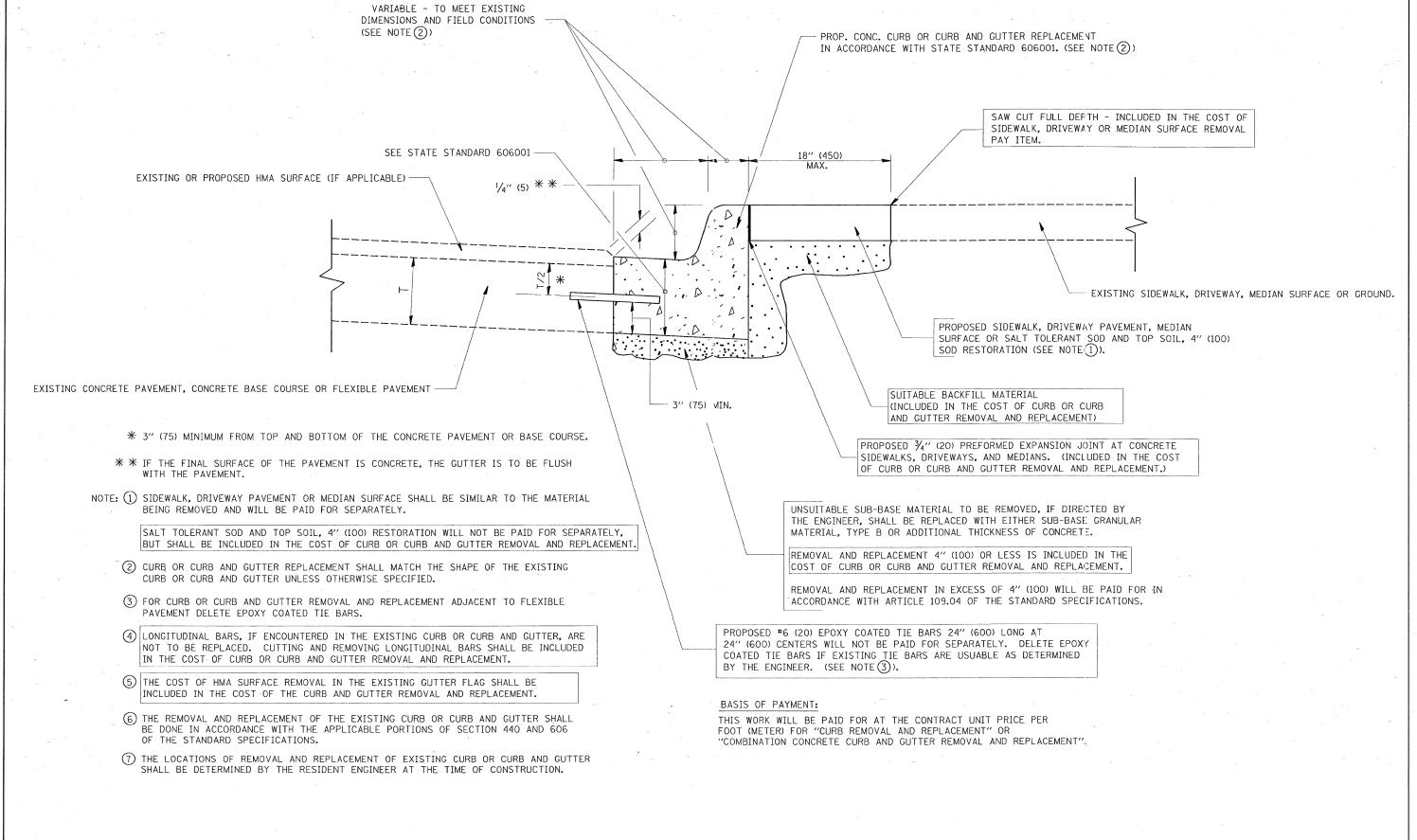
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 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)

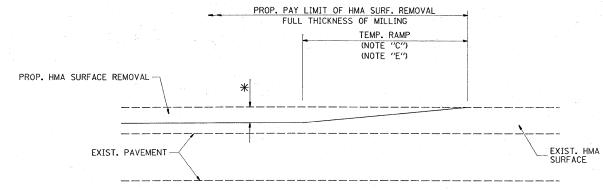
- 1. MILL HMA FIRST IF THERE IS AT LEAST 4/2 INCHES
 OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING
 PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA.
 A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN
 PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

FILE NAME =	USER NAME = gorengautab	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING	C FOD	F.A.U.	SECTION	COUNTY	SHEETS NO.	
 c:\pw:work\PWIDOT\GORENGAUTAB\dØ138737\	DistStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				3902	16-Z-1-RS	KANE	17 8	1
·	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		HMA SURFACED PAV	EIVIEN I		BD400-04 (BD-22)	CONTRACT	NO. 60G69	1
	PLOT DATE = 4/17/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET	NO. 1 OF 1 SHEETS S	STA. TO STA.	FED. RO		ID PROJECT		1



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

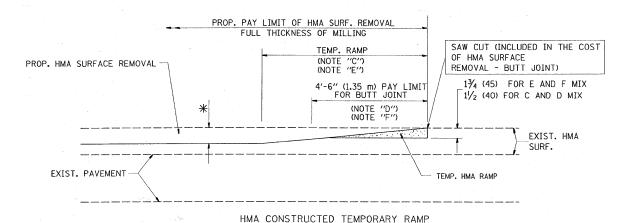
FILE	NAME =	USER NAME = gorengautab	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\pw.	work\PWIDOT\GORENGAUTAB\d0137132\	DistStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILI.INOIS		3902 16-Z-1-RS	KANE 17 9
		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT	BD600-06 (BD-24)	CONTRACT NO. 60G69
L		PLOT DATE = 4/16/2009	DATE - 03-11-94	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ID PROJECT



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

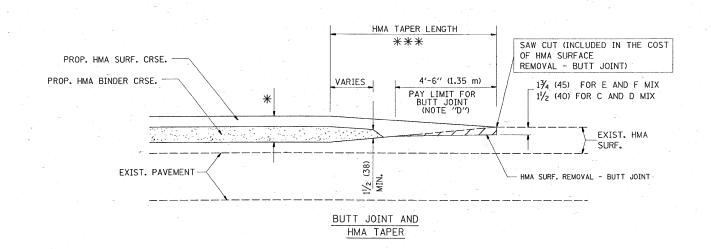
OPTION 1



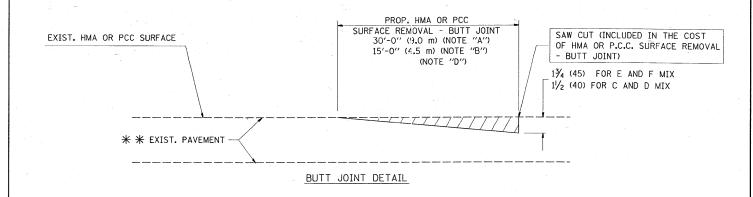
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

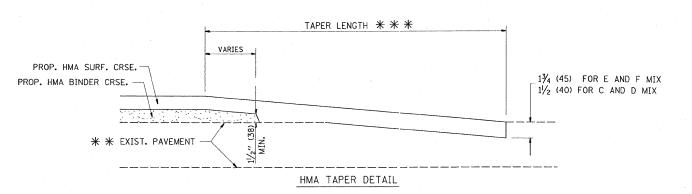
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

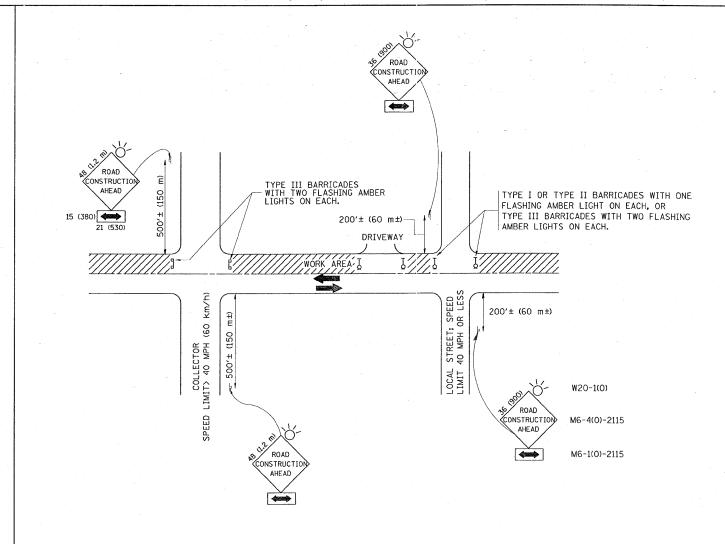
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: 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'-O" (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.
- ** * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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".

FILE NAME =	USER NAME = gorengautab	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94		BUTT JOINT AND	F.A.U. SECTION	COUNTY TOTAL SHEET
o:\pw_work\PWIDOT\GORENGAUTAB\dØ137132	DistStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	HMA TAPER DETAILS	3902 16-Z-1-RS	KANE 13 10
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPORTATION	MINIA TAPER DETAILS	BD400-05 BD32	CONTRACT NO. 60G69
	PLOT DATE = 4/16/2009	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AIR	D PROJECT



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- o) 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. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

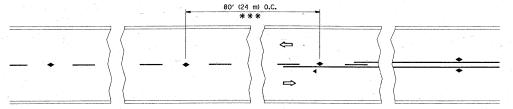
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = gorengautab	DESIGNED	-	LHA	REVISED	-	J. OBERLE 10	0-18-95
c:\pw_work\PWIDOT\GORENGAUTAB\dØl37132\	DistStd.dgn	DRAWN -	-		REVISED	-	A. HOUSEH O	3-06-96
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	-		REVISED	-	A. HOUSEH 1	0-15-96
	PLOT DATE = 4/16/2009	DATE -	-	06-89	REVISED	-T.	RAMMACHER	01-06-00

STATI	E OI	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

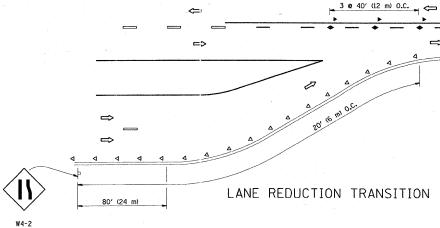
	TR	AFFI	C	CON	TR	OL AND F	ROTEC	TION FOR	
	SIDE	ROA	DS	s, IN	TE	RSECTIONS	, AND	DRIVEWAY	S
E	SHEET	NO.	1	0F	1	SHEETS	STA.		TC

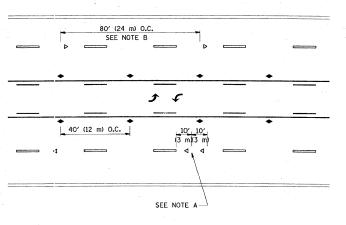
RTE.		SEC	TION		COUNTY	SHEET	S NO.
3902	!	16-Z-	1-RS		KANE	1.7	11
3902 16-Z-1-RS TC-10 FED. ROAD DIST. NO. 1 ILLINOIS FEI					CONTRACT	NO. 6	50G69
FED.	ROAD DIST.	NO. 1	ILLINOIS	FED. AI	D PROJECT		



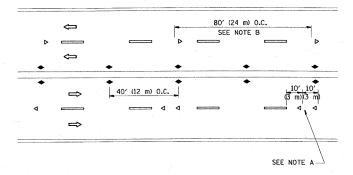
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

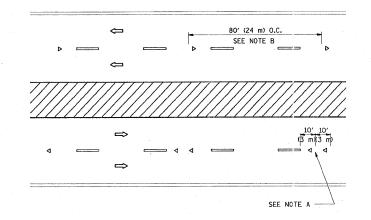




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

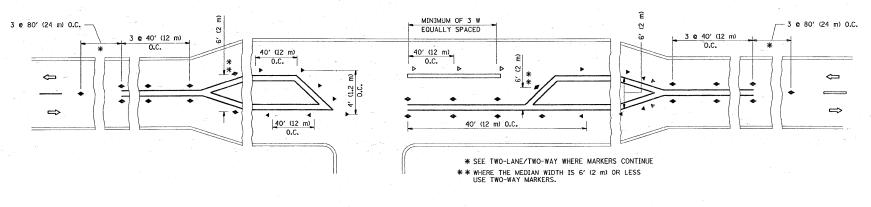
---- YELLOW STRIPE

WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

DESIGN NOTES

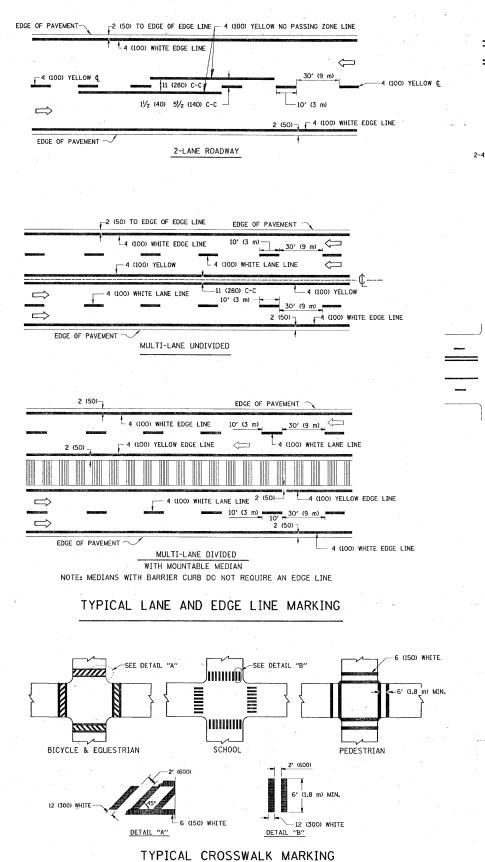
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

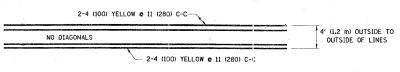


LEFT TURN

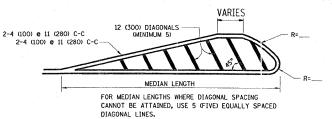
All dimensions are in inches (millimeters) unless otherwise shown.

TOTAL SHEET NO. DESIGNED REVISED - T. RAMMACHER 09-19-94 FILE NAME = JSER NAME = gorengautab SECTION COUNTY TYPICAL APPLICATIONS STATE OF ILLINOIS DRAWN REVISED - T. RAMMACHER 03-12-99 KANE \ow_work\PWIDOT\GORENGAUTAB\dØ137132\bistStd.don 3902 16-Z-1-RS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) PLOT SCALE = 50.0000 '/ IN. CHECKED REVISED -T. RAMMACHER 01-06-00 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60G69 TC-11 DATE SHEET NO. 1 OF 1 SHEETS STA.



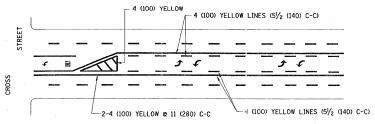


4' (1.2 m) WIDE MEDIANS ONLY

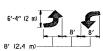


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

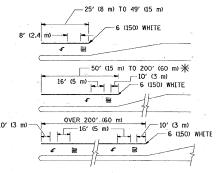


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (91) m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

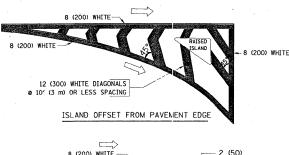


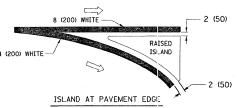
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²)

* 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





TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED 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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE _	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

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

SECTION 16-Z-1-RS

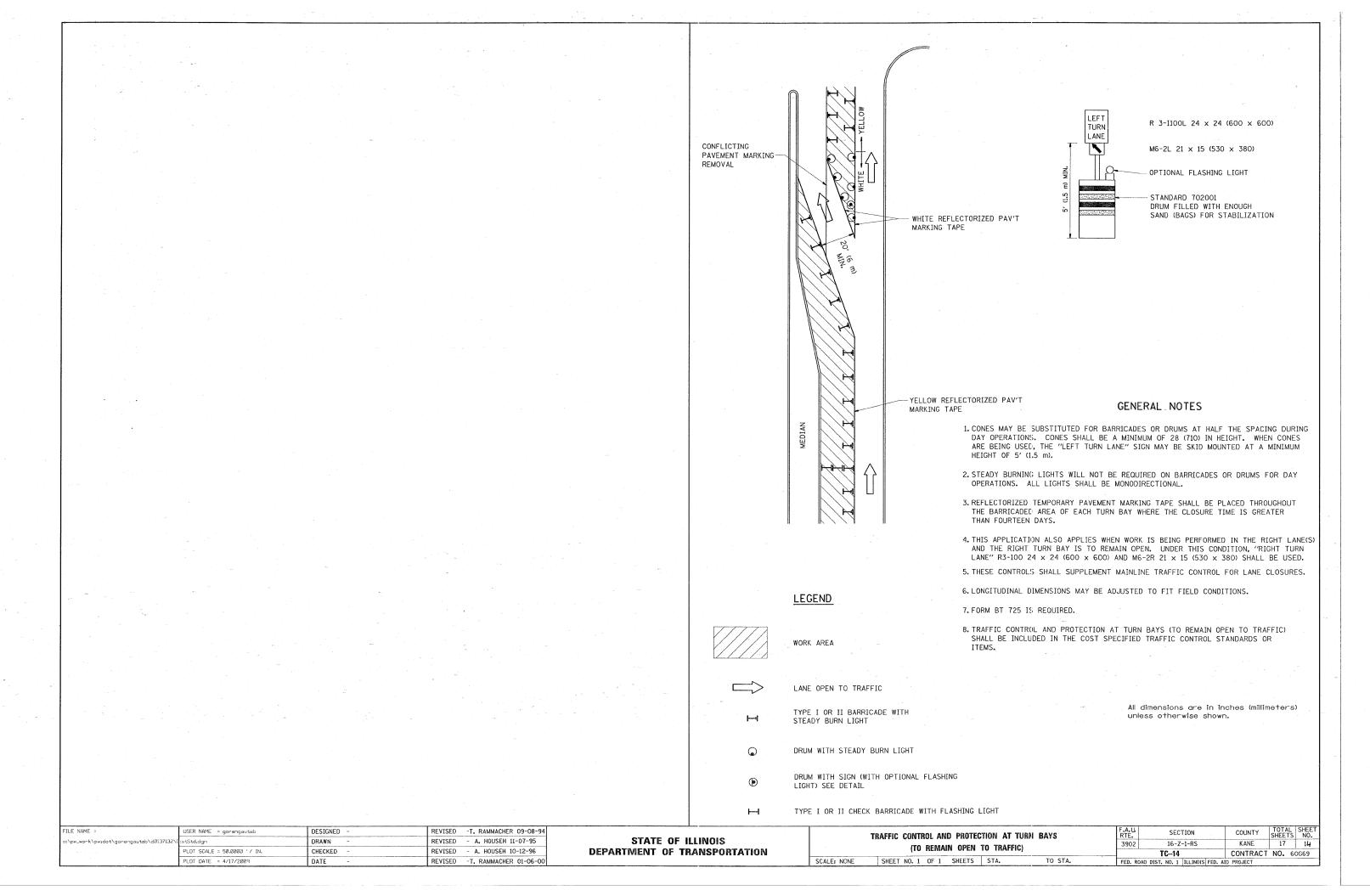
TC-13

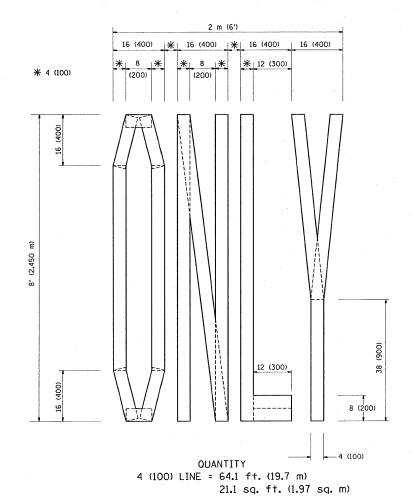
KANE 17 13

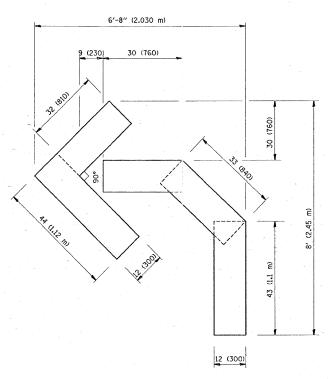
CONTRACT NO. 60G69

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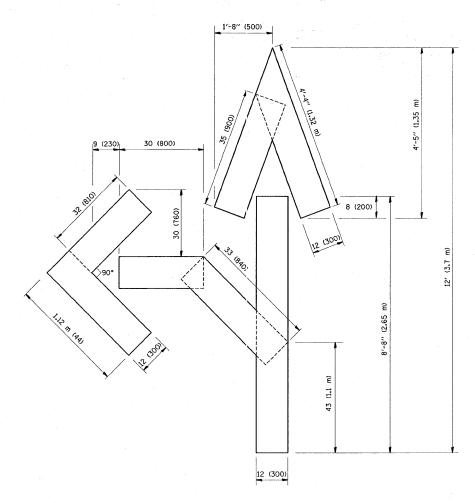
FILE NAME = .	USER NAME = gorengautab	DESIGNED - EVERS	REVISED -T, RAMMACHER 10-27-94			DISTRICT O	NE		F.A.U. RTE.
c:\pw_wark\pwidot\gorengautob\dØ137132\E	istStd.dgm	DRAWN -	REVISED -A. HOUSEH 10-09-96	STATE OF ILLINOIS					3902
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION		TYPICAL PAVEMENT	WAKKINGS		
	PLOT DATE = 4/17/2009	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-0		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. RO







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



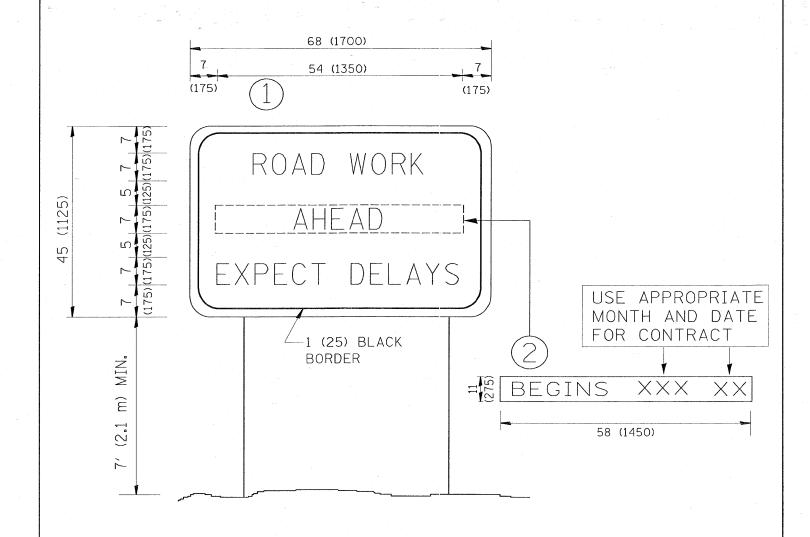
QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = gorengoutab	DESIGNED -	REVISED	-T. RAMMACHER 06-05-96
c:\pw_work\PWIDOT\GORENGAUTAB\dØ137132\	DistStd.dgn	DRAWN -	REVISED	-T. RAMMACHER 11-04-97
794	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER 03-02-98
	PLOT DATE = 4/16/2009	DATE - 09-18-94	REVISED	-E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.U. RTE.
	FOR TRAFFIC STAGING	3902
	ION INALIO BIAGNA	
CALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST.



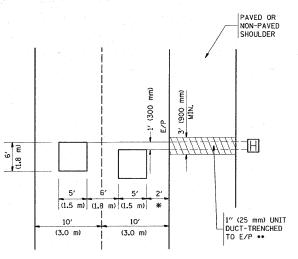
NOTES:

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

FILE NAME =	USER NAME = gorengautab	DESIGNED - REVI	ISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\pw_work\PWIDOT\GORENGAUTAB\dØ137132\	DistStd.dgn	DRAWN - REVI	SED - R. MIRS 12-11-97	STATE OF ILLINOIS		3902 16-Z-1-RS	KANE 17 16
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - REVI	ISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO. 60G69
	PLOT DATE = 4/16/2009	DATE - REVI	ISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLIN	NOIS FED. AID PROJECT

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



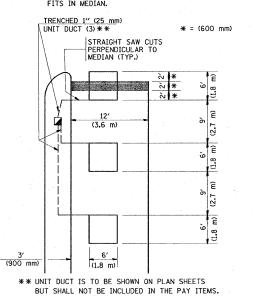
* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

* = (600 mm)

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

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 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

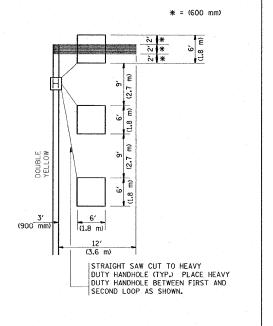


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

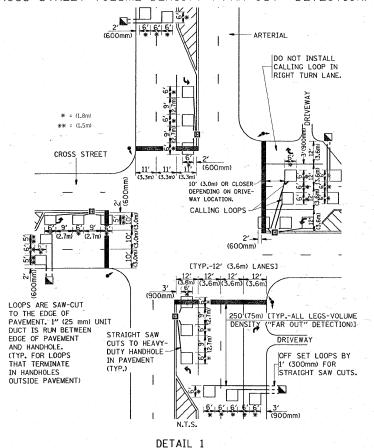


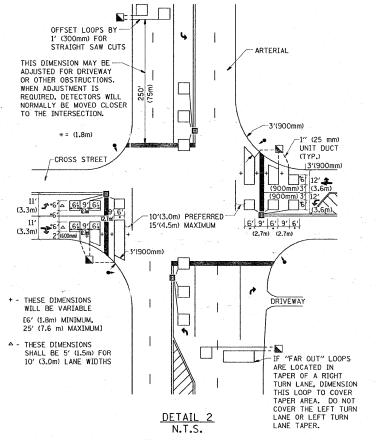
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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

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





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 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 (1.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 $\underline{\text{ALL}}$ 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.

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N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS FOR ROADWAY RESURFACING	3902	16-Z-1-RS	KANE	177	137
DETAILS TON HONDWAT HESSEN AGING		TS-07	CONTRACT	NO. 60	G69
SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		