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D-91-142-19

DEPARTMENT OF TRANSPORTATION

PROPOSED FOR INDEX OF SHEETS, SEE SHEET NO. 2 **HIGHWAY PLANS**

THIS PROJECT IS LOCATED IN THE CITY OF AURORA AND THE **VILLAGE OF MONTGOMERY**

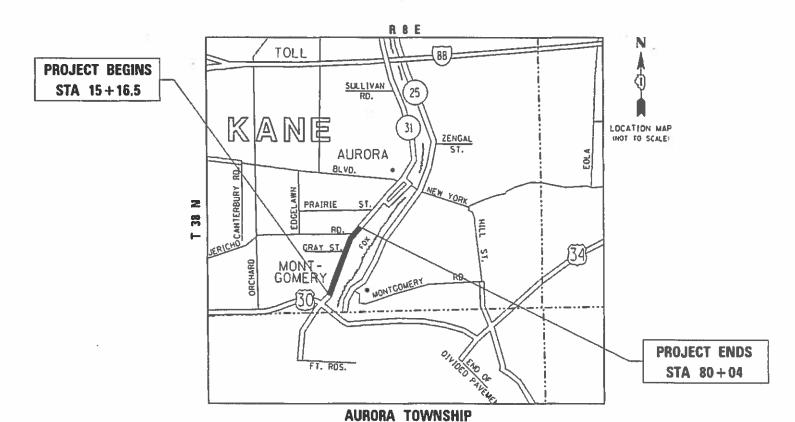
TRAFFIC DATA:

IL 31:

PROJECT BEGIN TO PROJECT END: ADT (2017) = 16,200 VPD SPEED LIMIT = 45 MPH

FAU ROUTE 3902: IL 31 RATHBONE AVE. TO WEBSTER ST./AUCUTT RD. **SECTION: 2019-021-RS PROJECT: STP-W275(970) DESIGNED OVERLAY, ADA IMPROVEMENTS** KANE COUNTY

C-91-346-19



GROSS LENGTH = 6.488 FT. = 1.23 MILES

NET LENGTH = 6,416 FT, = 1.21 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION June 11

LOCATION OF SECTION INDICATED THUS: - -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432 PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62H98

REV. - MS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-3	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
4-6	SUMMARY OF QUANTITIES
7-8	TYPICAL SECTIONS
9-11	ROADWAY AND PAVEMENT MARKING PLANS
12	CURB RAMP IMPROVEMENT PLAN
13-15	DETECTOR LOOP REPLACEMENT PLANS
16	BD-01: DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB OR EDGE OF SHOULDER GREATER THAN OR EQUAL TO 15' (4.5 M)
17	BD-02: DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB IS LESS THAN 15' (4.5 M)
18	BD-08: DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
19	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
20	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
21	BD-32: BUTT JOINT AND HMA TAPER DETAILS
22	TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
23	TC-11: TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
24	TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS
25	TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
26	TC-16: PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
27	TC-22: ARTERIAL ROAD INFORMATION SIGN
28-29	TC-23: TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS
30	TC-26: DRIVEWAY ENTRANCE SIGNING
31	TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 2 OF 7)

TS-07: DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS

FOR ROADWAY RESURFACING

STATE STANDARDS

DESCRIPTION

STANDARD NO.

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021-04	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS \geq 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS \leq 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
814001-03	HANDHOLES

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF AURORA AND THE VILLAGE OF MONTGOMERY.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 4. THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- 6. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE RESIDENT 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.
- 7. 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 RESIDENT ENGINEER.
- 8. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 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 19:3H.
- 9. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
- 10. 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 11. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- 12. LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- 13. CATCH BASINS, MANHOLES, INLETS, DRAINAGE STRUCTURES AND VALVE VAULTS ADJUSTMENT AND/OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- 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. THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT DON.CHIARUGI@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

SEE SHEET 3 FOR CONTINUATION

USER NAME = qarutnn	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 5/31/2019	DATE -	REVISED -

LU.	SEC ⁻	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
02	2019-0)21-RS		KANE	32	2
				CONTRACT	NO. 62	2H98
		ILLINOIS	FED. A	ID PROJECT		

GENERAL NOTES (CONTINUED)

- 16. 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.
- 17. 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.
- 18. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENT FIRM TO CONTINUOUSLY MONITOR FOR WORKER SAFETY AND SOIL CONTAMINATION AT SEVERAL LOCATIONS. SEE SPECIAL PROVISION AND SUPPLEMENTAL SPECIFICATIONS FOR DETAILS.
- 19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 20. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 21. ALL CAST OPEN LIDS FOR FRAMES, TYPE 1, WITHIN CURB RAMPS FOR SIDEWALK, SHALL BE "ADA COMPLIANT" CAST OPEN LIDS PER HIGHAY STANDARD 604001.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS DAMAGED DURING CONSTRUCTION.
- 23. PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- 24. WHEN EXISTING SIDEWALK IS TO BE REMOVED WITHOUT PROPOSED SIDEWALK REPLACEMENT, IT SHALL BE REPLACED WITH TOPSOIL AND SOD.
- 25. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 26. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- 27. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

JSER NAME = qarutnn DESIGNED -REVISED DRAWN REVISED HECKED REVISED PLOT DATE = 5/31/2019 REVISED DATE

STATE OF ILLINOIS

IL 31 (WEBSTER ST./AUCUTT RD. TO RATHBONE AVE.) INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES SHEET OF SHEETS STA.

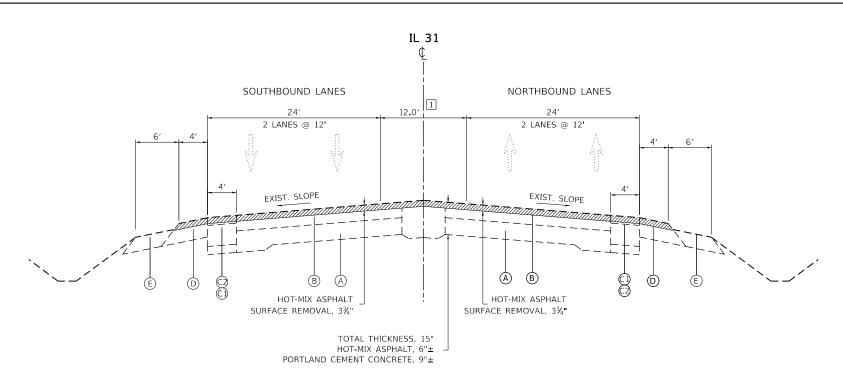
SECTION COUNTY KANE 32 3 3902 2019-021-RS CONTRACT NO. 62H98

DEPARTMENT OF TRANSPORTATION

	SUMMARY OF QUANTITIES				CC	NSTRUCTIO	ON TYPE C	CODE			CUMMARY OF QUANTITIES				CON	STRUCTION	N TYPE CO	DE	
	SUMMARY OF QUANTITIES		-	0005							SUMMARY OF QUANTITIES			0005					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE						CODE NO	ITEM	UNIT	QUANTITIES	80% FED 20% STATE					
20200100	EARTH EXCAVATION	CU YD	4	4								-							
										44000600	SIDEWALK REMOVAL	SO FT	220	220					
20200600	EXCAVATING AND GRADING EXISTING	UNIT	1	1															
	SHOULDER									44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	160	160					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	30	30						44201794	CLASS D PATCHES, TYPE III, 12 INCH	SO YD	120	120					
25200110	SODDING, SALT TOLERANT	SO YD	30	30						44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SO YD	100	100					<u> </u>
					1														
25200200	SUPPLEMENTAL WATERING	UNIT	1	1						48101498	AGGREGATE SHOULDERS, TYPE B 4"	SO YD	50	50					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	33500	33500						48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	100	100					
40600400	· · · ·	TON	75	75						60250200	CATCH BASINS TO BE ADJUSTED	EACH	5	5					
	FLANGEWAYS																		
				1	1					60253000	CATCH BASINS TO BE RECONSTRUCTED WITH	EACH	1	1					
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	5420	5420	1						NEW TYPE 1 FRAME, OPEN LID								
			1		1														
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	400	400	1					60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	5	5					
	JOINT																		
					1					* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1	1					
42001300	PROTECTIVE COAT	SO YD	105	105	1						(SPECIAL) TANGENT								
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SO FT	220	220						63200310	GUARDRAIL REMOVAL	FOOT	50	50					
	INCH																		
										* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	4	4					
42400800	DETECTABLE WARNINGS	SO FT	25	25	1			1											
										* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1					
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3	SO YD	48300	48300															
	3/4"									* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION	LSUM	1	1			* = S	PECIALTY	ITEMS
Eli E MANE	USER NAME = qaru'nn DE	ESIGNED -		REVISED							PLAN				le A II i			ON-PARTIC	CIPATING
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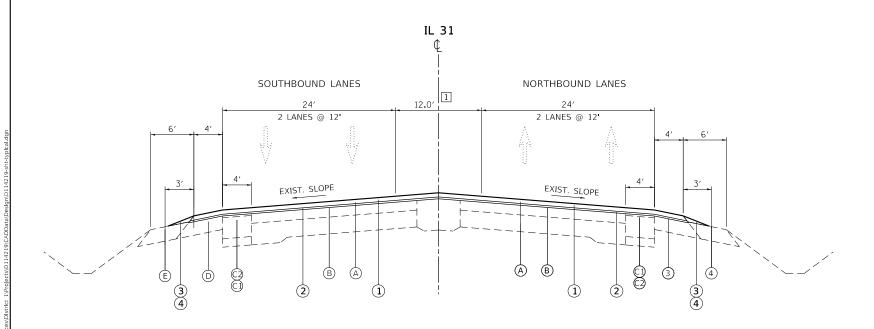
	SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE		SUMMARY OF QUANTITIES		CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT	O005 TOTAL 80% FED QUANTITIES 20% STATE		CODE NO	ITEM UNIT	TOTAL 80% FED QUANTITIES 20% STATE	
66901002	ON-SITE MONITORING OF REGULATED	CAL DA	1 1		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SO FT	1520 1520	
	SUBSTANCES					SYMBOLS		
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION	LSUM	1 1		70300220	TEMPORARY PAVEMENT MARKING - LINE 4" FOOT	20820 20820	
86301003	REPORT	LSUM	1 1		70300220	TEMPONANT PAVEMENT MANNING - LINE 4	20020 20020	
					70300240	TEMPORARY PAVEMENT MARKING - LINE 6" FOOT	2000 2000	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6 6					
7100100	MOBILIZATION	I SUM			70300250	TEMPORARY PAVEMENT MARKING - LINE 8" FOOT	250 250	
67100100	MUBILIZATION	L SUM	1 1		70300260	TEMPORARY PAVEMENT MARKING - LINE 12" FOOT	1460 1460	
70102620	TRAFFIC CONTROL AND PROTECTION,	L SUM	1 1					
	STANDARD 701501				70300280	TEMPORARY PAVEMENT MARKING - LINE 24" FOOT	1060 1060	
70102625	TRAFFIC CONTROL AND PROTECTION,	L SUM	1 1		70300520	PAVEMENT MARKING TAPE, TYPE III 4" FOOT	6450 6450	
	STANDARD 701606							
					* 72501000	TERMINAL MARKER - DIRECT APPLIED EACH	1 1	
70102630	TRAFFIC CONTROL AND PROTECTION.	L SUM	1 1		N/ 70000100	THERMOPLASTIC PAVEMENT MARKING - SO FT	1520 1520	
	STANDARD 701601				* 78000100	THERMOPLASTIC PAVEMENT MARKING - SO FT LETTERS AND SYMBOLS	1520 1520	
70102632	TRAFFIC CONTROL AND PROTECTION,	L SUM	1 1					
	STANDARD 701602				* 78000200		20820 20820	
70102635	TRAFFIC CONTROL AND PROTECTION,	L SUM	1 1			4"		
	STANDARD 701701				* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE FOOT	2000 2000	
						6"		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1 1		* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE FOOT	250 250	
	STANDARD TOTOGE				* 10000300	8"	230 230	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	25700 25700					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	50.57	8600 8600		* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE FOOT	1460 1460	* = SPECIALTY I
70300150 ILE NAME =	USER NAME = qarutnn DE	SO FT SIGNED -	REVISED -			IL 31 (WEBSTER ST./AUCUTT RD	TO RATHRONE AVE 1	F.A.U SECTION COUNTY TOTAL RTE. SECTION COUNTY SHEET
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ŀ	T	SUMIM	ART OF QUANTITIES		TOTAL	0005							SUMMA	RY OF QUANTITIES	<u> </u>	TOTAL					
	CODE NO		ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE						CODE NO		ITEM	UNIT	TOTAL QUANTITIES					
*	78000650	THERMOPLASTI	C PAVEMENT MARKING - LINE	FOOT	1060	1060						Z0004562	COMBINATION	CONCRETE CURB AND GUTTER	FOOT	340	340				
		24"											REMOVAL AND	REPLACEMENT							
*	78100100	RAISED REFLE	CTIVE PAVEMENT MARKER	EACH	595	595						Z0018500	DRAINAGE STI	RUCTURES TO BE CLEANED	EACH	5	5				
*	78200005	GUARDRAIL RE	FLECTORS, TYPE A	EACH	2	2						Z0030850	TEMPORARY II	NFORMATION SIGNING	SO FT	55	55				
. [
	78300200	RAISED REFLE	CTIVE PAVEMENT MARKER	EACH	595	595						Z0033700	LONGITUDINA	JOINT SEALANT	FOOT	25800	25800				
		REMOVAL																			
												Z0048665	RAILROAD PRO	DTECTIVE LIABILITY INSURANCE	L SUM	1	1				
*	85000200	MAINTENANCE	OF EXISTING TRAFFIC SIGNAL	EACH	1	1															
		INSTALLATION																			
ļ																					
*	88600600	DETECTOR LOO	P REPLACEMENT	FOOT	2430	2430															
ļ																					
*	89502376	REBUILD EXIS	TING HANDHOLE	EACH	1	1															
	x0320050	CONSTRUCTION	LAYOUT (SPECIAL)	L SUM	1	1															
	X0320030	CONSTRUCTION	LATOUT (SPECIAL)	L SUM		1									1						+
	X2020110	GRADING AND	SHAPING SHOULDERS	UNIT	50	50															
	X4060004	POLYMERIZED	HOT-MIX ASPHALT SURFACE	TON	4750	4750															
		COURSE, STON	E MATRIX ASPHALT, 9.5, N80																		
	x5537800	STORM SEWERS	TO BE CLEANED 12"	FOOT	100	100															
	x6030310		IDS TO BE ADJUSTED	EACH	6	6															
		(SPECIAL)																			
	x7030005	TEMPORARY PA	VEMENT MARKING REMOVAL	SO FT	15600	15600				1											
																				* = SPECIAL A = NON-PAR	RTICIPATING
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L				DATE -		REVISED -	_			LI AIITIVIL		ANGI OIIIA		SCALE: SHEET NO. OF			STA.	FED. RO	AD DIST. NO. 1 ILL	NOIS FED. AID PROJECT	I NU. 62H9



EXISTING TYPICAL SECTION FROM STA. 24+69 TO 79+17

1 = LEFT-TURN LANE / PAINTED MEDIAN



PROPOSED TYPICAL SECTION

FROM STA. 24+69 TO 79+17

1 = LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER/TECHNICIAN.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

LEGEND - EXISTING:

- A PCC PAVEMENT
- B HMA PAVEMENT
- © COMBINATION CONCRETE CURB AND GUTTER
- (1) HMA BASE COURSE WIDENING 10 1/4"
- (2) HMA SURFACE COURSE 3 3/4"
- D HMA SHOULLDER
- (E) AGGREGATE SHOULDER

NOTES:

- 1.) THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.
- 2.) THE LONGITUDAL JOINT SEALANT SHALL BE PLACED OVER THE LEVELING BINDER.

LEGEND - PROPOSED

- 1 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT 9.5 N80, 1 3/4"
- 2 LEVELING BINDER (MACHINE METHOD), N70, 2"
- (3) GRADING AND SHAPING SHOULDERS
- 4 AGGREGATE WEDGE SHOULDER, TYPE B
- (5) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

HOT-MIX ASPHALT MIXTURE REQUIR	EMENTS	QUALITY MANAGEMENT
MIXTURE TYPE	AIR VOIDS @ Ndes	PROGRAM (QMP)
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA 9.5 N80	3.5% AT 80 GYR	QCP
LEVELING BINDER (MACHINE METHOD), (IL-9.5 mm) N70	4.0% AT 70 GYR.	QCP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4.0% AT 70 GYR.	QC/QA
OMP DESIGNATION: OHALITY CONTROL/OHALITY ASSURANCE (OC/OA): OHALITY CO	ONTROL FOR PERFORMANCE (OCP)	

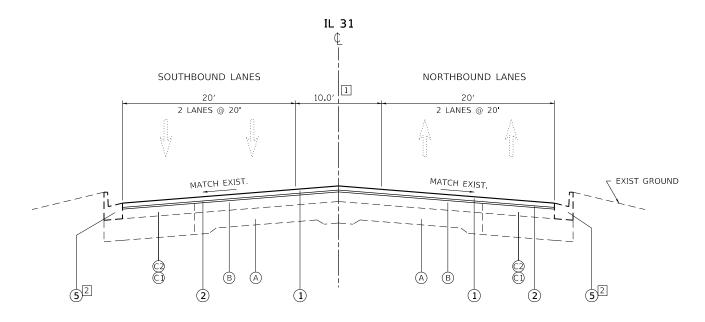
- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

 FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- NOTE 3: QUALITY MANAGEMENT PROGRAM (QMP) IDNTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

11 04 (14)	FRATER	OT /AII	OUTT D	- TO	DATUDONE AVE	F.A.U.	SECTION	COUNTY	TOTAL	SHEET
IL 31 (W	FR21FK	\$1./AU	CUII K	טו .ע	RATHBONE AVE.)	RTE.	32011014	0001111	SHEETS	NO.
		TVDIC	AL SECT	DING		3902	2019-021-RS	KANE	32	7
		11110	AL SLUI	IUIVO				CONTRAC	T NO. 62	2H98
I E.	СПССТ	OF	SHEETS	STA	TO STA		THE PROPERTY OF	D HD DDOLEGE		

EXISTING TYPICAL SECTION GREY AVE. TO STA. 79+50

1 = LEFT-TURN LANE / PAINTED MEDIAN



PROPOSED TYPICAL SECTION

GREY AVE. TO STA. 79+50

2 = LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER/TECHNICIAN.

JSER NAME = Velichkovvv DESIGNED -REVISED DRAWN REVISED CHECKED REVISED PLOT DATE = 5/31/2019 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

LEGEND - EXISTING:

- A PCC PAVEMENT
- B HMA PAVEMENT
- © COMBINATION CONCRETE CURB AND GUTTER
- (1) HMA BASE COURSE WIDENING 10 1/4"
- (2) HMA SURFACE COURSE 3 3/4"
- D HMA SHOULLDER
- (E) AGGREGATE SHOULDER

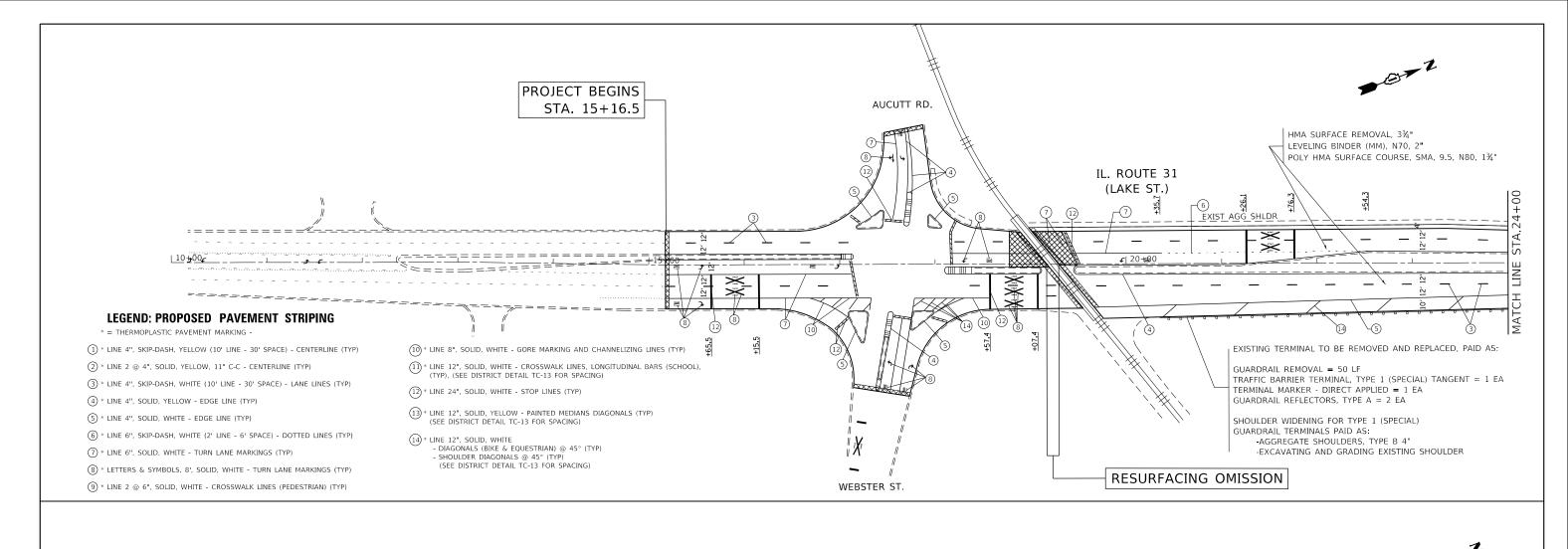
NOTES:

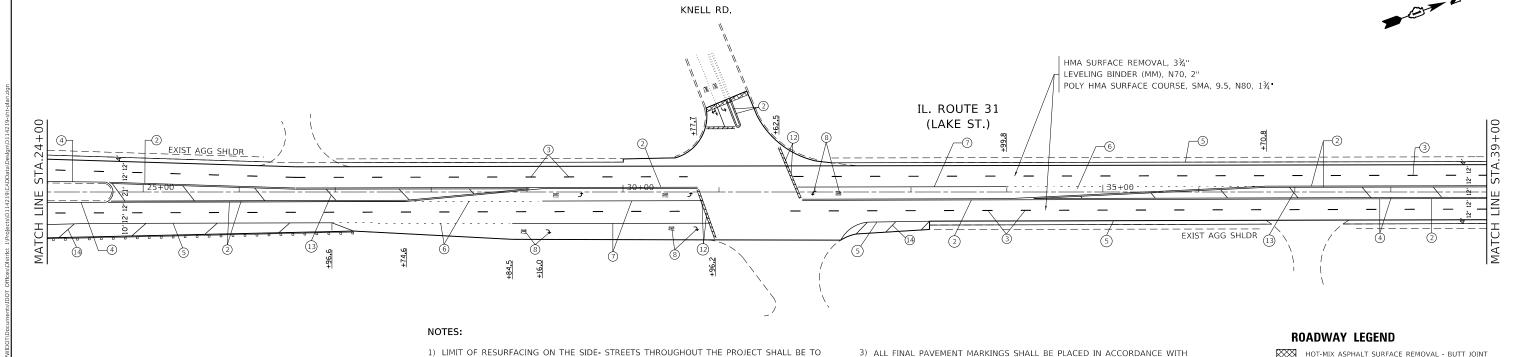
- 1.) THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.
- 2.) THE LONGITUDAL JOINT SEALANT SHALL BE PLACED OVER THE LEVELING BINDER.

LEGEND - PROPOSED

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT 9.5 N80, 1 3/4"
- 2 LEVELING BINDER (MACHINE METHOD), N70, 2"
- (3) GRADING AND SHAPING SHOULDERS
- 4 AGGREGATE WEDGE SHOULDER, TYPE B
- (5) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

IL 31 (WEBSTER ST./AUCUTT RD. TO RATHBONE AVE.) SECTION COUNTY 3902 2019-021-RS KANE 32 8 TYPICAL SECTIONS CONTRACT NO. 62H98 OF SHEETS STA. TO STA.





REVISED REVISED REVISED

DESIGNED -

HECKED

DRAWN

JSER NAME = qarutnr

LOT SCALE = 100.0000 ' / in.

(OF THE EXTRUDED TYPE).

THE RESIDENT ENGINEER / TECHNICIAN.

THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY

2) ALL FINAL PAVEMENT MARKINKS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL 31	(WEBSTER	ST./A	UCUTT RI	D. TO	RATHBONE AVE.)	F.A.U. RTE	SECT	ION	COUNTY	TOTAL SHEETS
	•	ROA	3902	2019-0	21-RS	KANE	32			
		1107	DWALLI	LAN					CONTRACT	NO. 62
SCALE: 1"= 50"	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS FED	AID PROJECT	

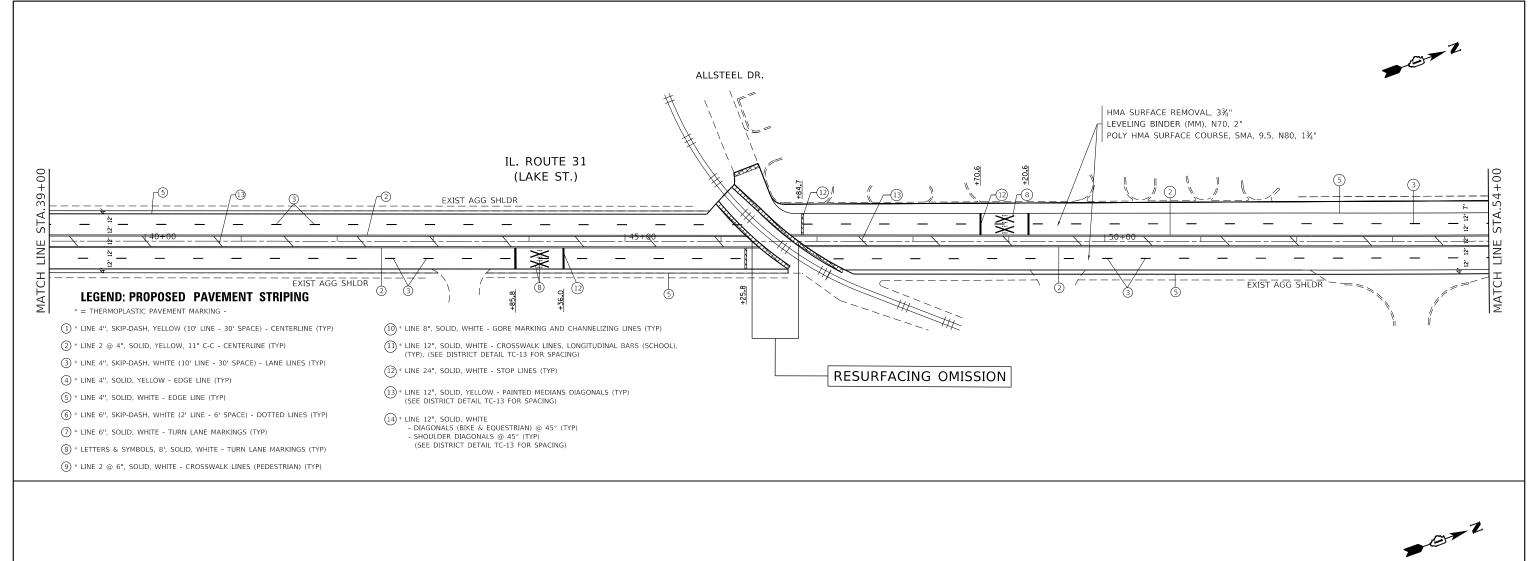
TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.

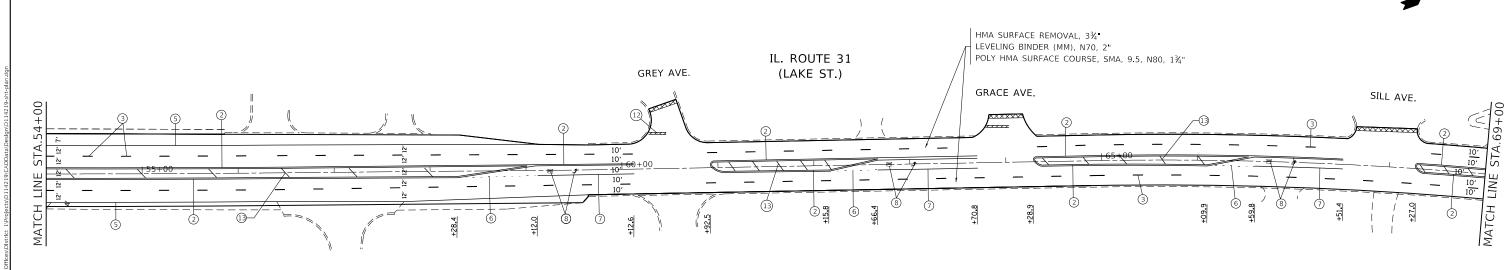
RESISTANT)" STANDARD DETAIL.

4) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH

TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT





- 1) LIMIT OF RESURFACING ON THE SIDE- STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
- 2) ALL FINAL PAVEMENT MARKINKS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE).

3) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.

4) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

ROADWAY LEGEND

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

USER NAME = qarutnn	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 5/31/2019	DATE -	REVISED -

IL 31	(WEBSTER	ST./AU	CUTT RI	D. TO	RATHBONE AVE.)	F.A.U. RTE						
	3902	2										
	ROADWAY PLAN											
SCALE: 1"= 50'	SHEET	OF	SHEETS	STA.	TO STA.							

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
3902	2019-021-RS		KANE	32	10
			CONTRACT	NO. 62	2H98
	TILLINOIS	EED A	ID PROJECT		

LEGEND: PROPOSED PAVEMENT STRIPING

- * = THERMOPLASTIC PAVEMENT MARKING -
- ① * LINE 4", SKIP-DASH, YELLOW (10' LINE 30' SPACE) CENTERLINE (TYP)
- ② * LINE 2 @ 4", SOLID, YELLOW, 11" C-C CENTERLINE (TYP)
- $\ensuremath{\ensuremath{\mathfrak{3}}}$ * Line 4", skip-dash, white (10' line 30' space) lane lines (TYP)
- 4 * LINE 4", SOLID, YELLOW EDGE LINE (TYP)
- 5 * LINE 4", SOLID, WHITE EDGE LINE (TYP)
- 6 * LINE 6", SKIP-DASH, WHITE (2' LINE 6' SPACE) DOTTED LINES (TYP)
- 7 * LINE 6", SOLID, WHITE TURN LANE MARKINGS (TYP)
- (8) * LETTERS & SYMBOLS, 8', SOLID, WHITE TURN LANE MARKINGS (TYP)
- (9) * LINE 2 @ 6", SOLID, WHITE CROSSWALK LINES (PEDESTRIAN) (TYP)
- 10 * LINE 8", SOLID, WHITE GORE MARKING AND CHANNELIZING LINES (TYP)
- (1) + LINE 12", SOLID, WHITE CROSSWALK LINES, LONGITUDINAL BARS (SCHOOL), (TYP), (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- 12)* LINE 24", SOLID, WHITE STOP LINES (TYP)
- $\fbox{13}$ $^{+}$ Line 12", Solid, Yellow Painted medians diagonals (TYP) (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- (14) * LINE 12", SOLID, WHITE
 DIAGONALS (BIKE & EQUESTRIAN) @ 45° (TYP)
 SHOULDER DIAGONALS @ 45° (TYP)
 (SEE DISTRICT DETAIL TC-13 FOR SPACING)

NOTES.

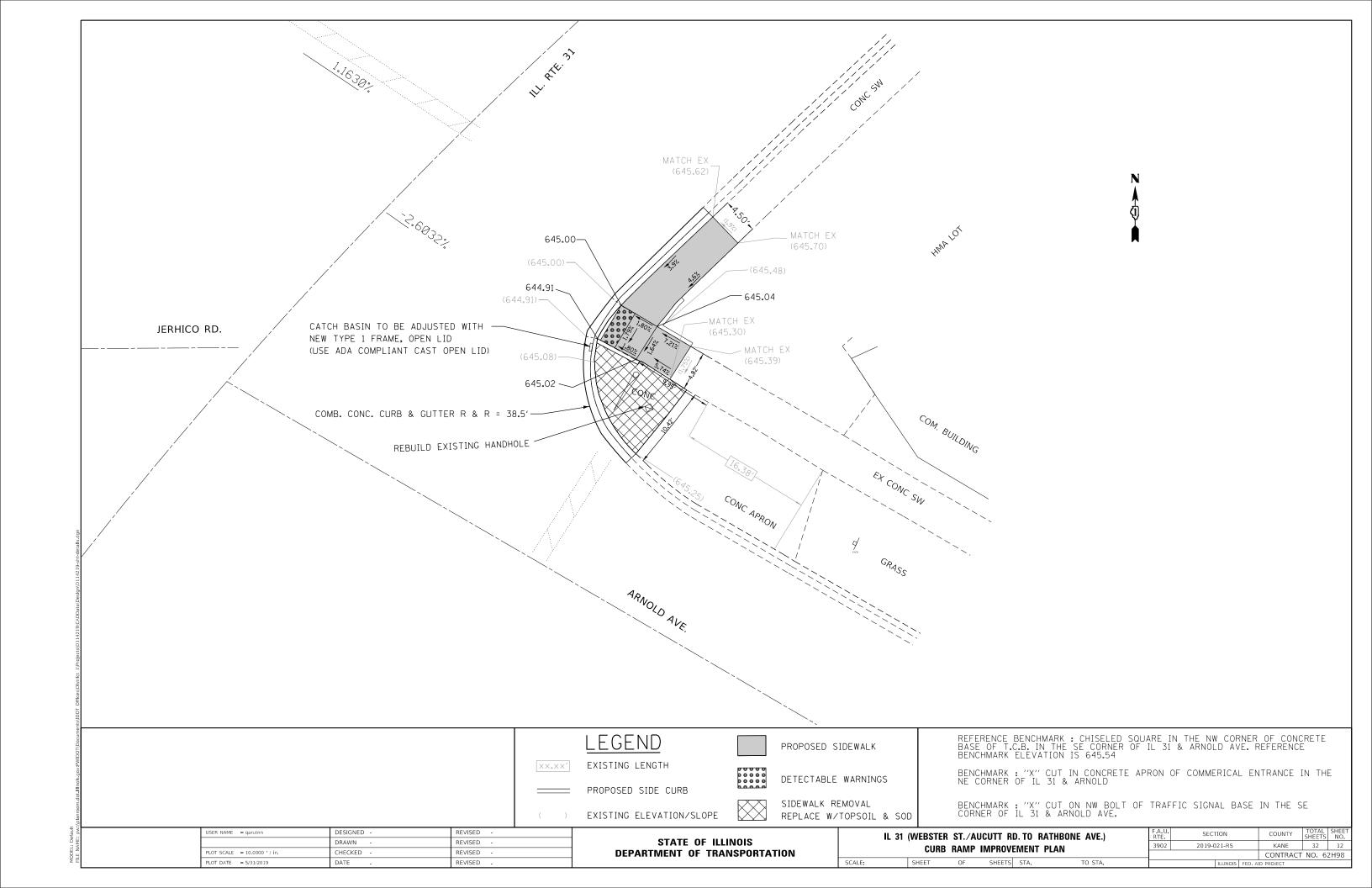
- 1) LIMIT OF RESURFACING ON THE SIDE- STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
- 2) ALL FINAL PAVEMENT MARKINKS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE).
- 3) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
- 4) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

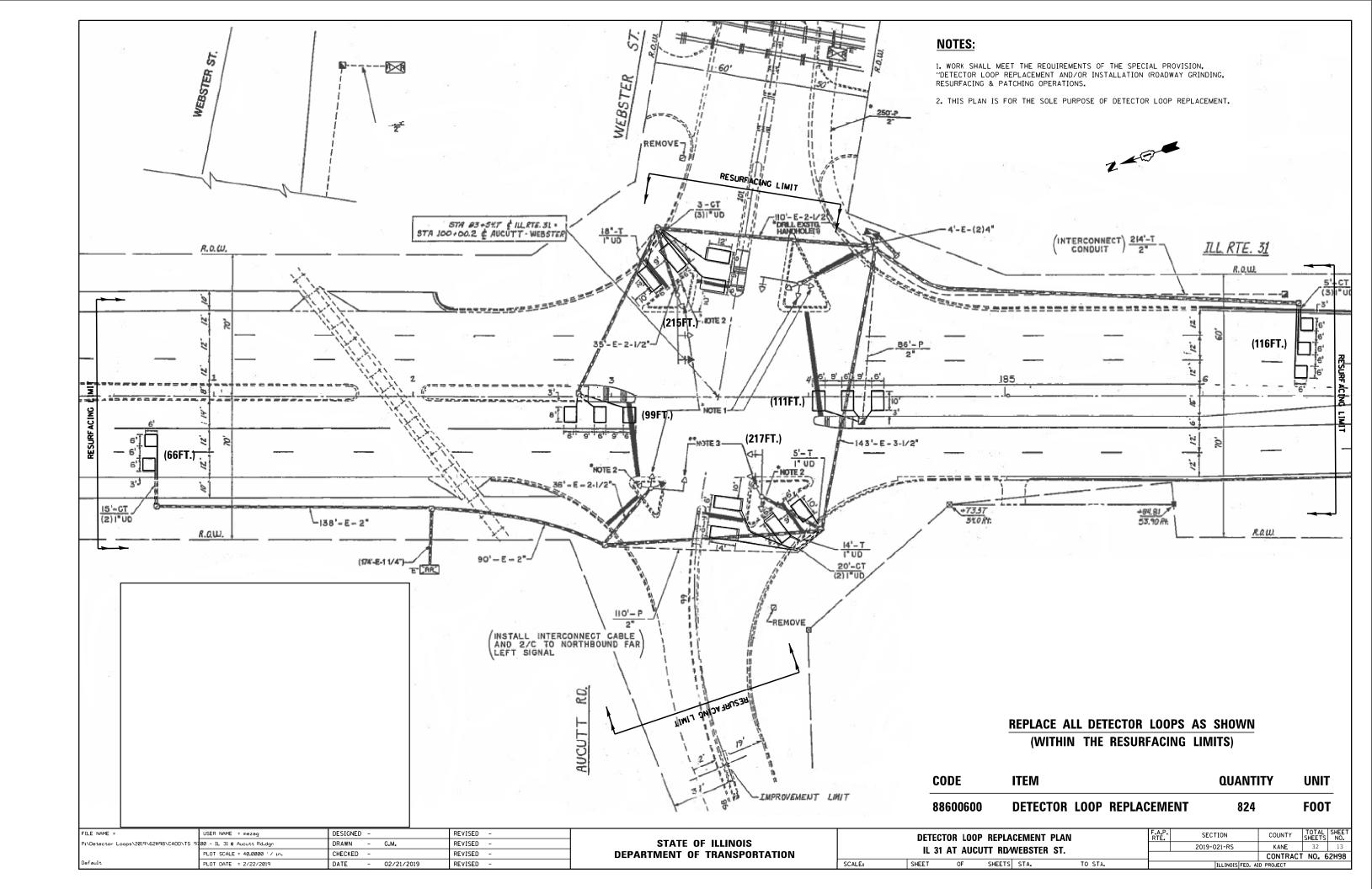
ROADWAY LEGEND

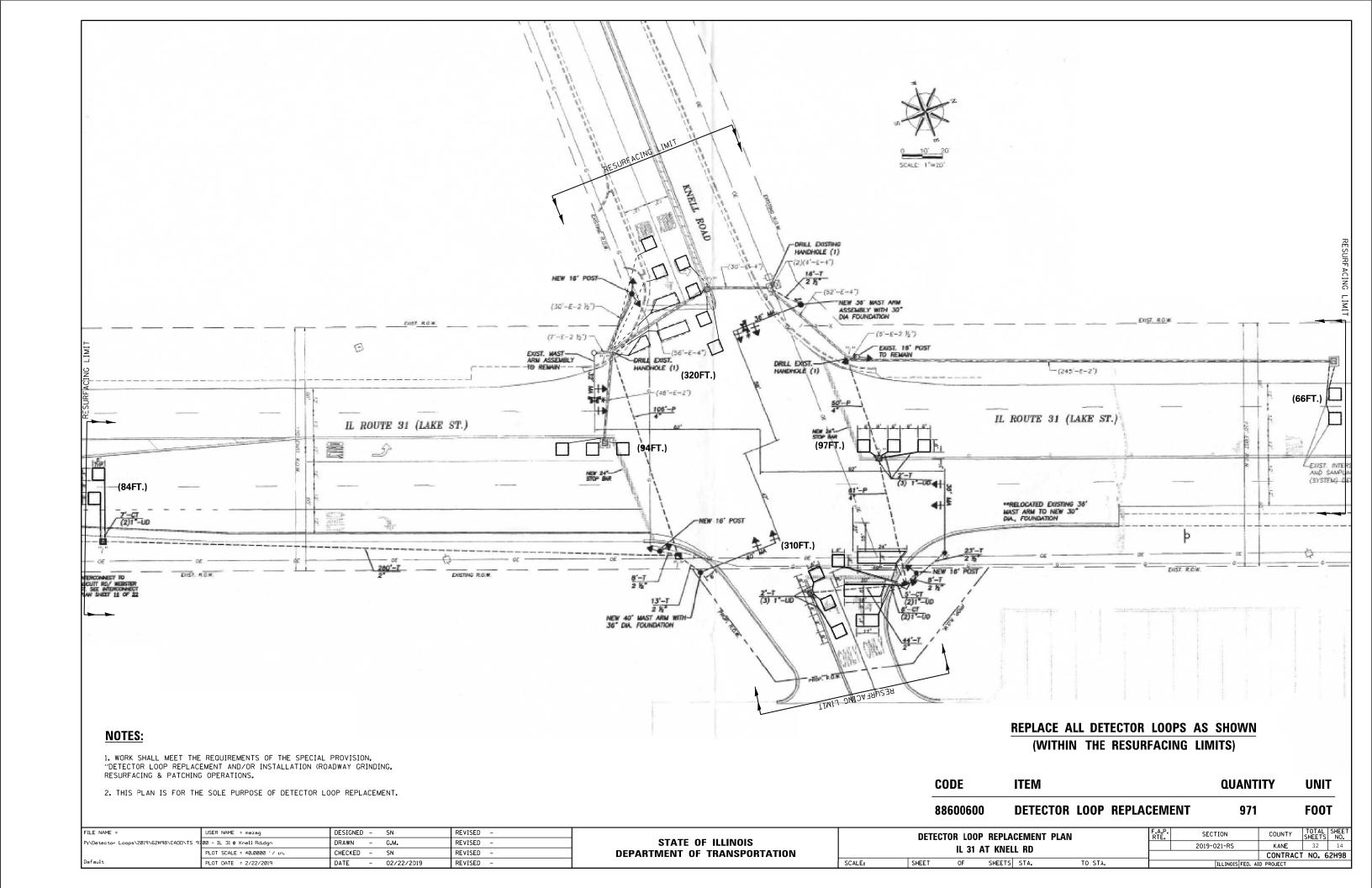
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

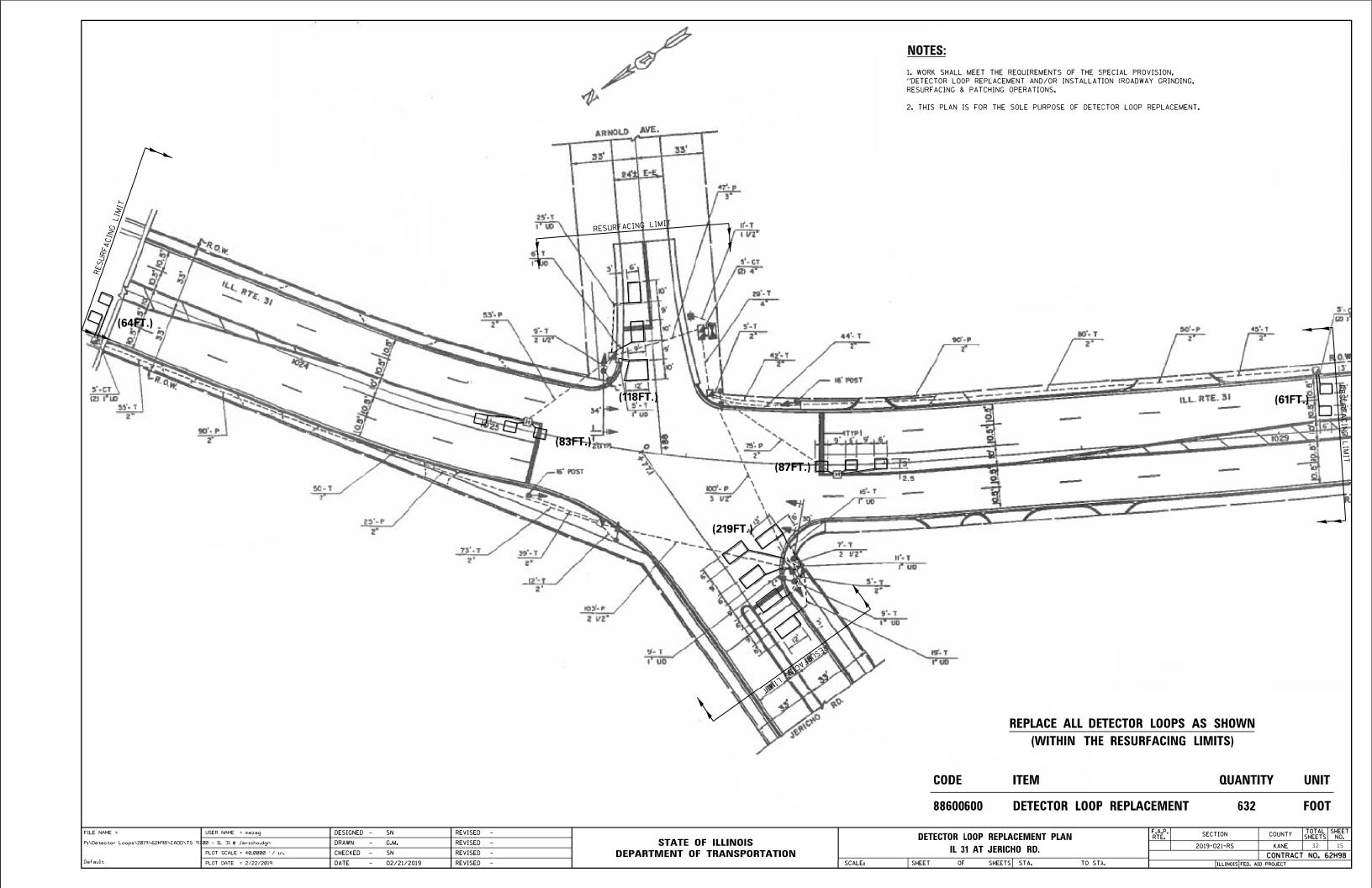
USER NAME = qarutnn	DESIGNED -	REVISED -
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PLOT DATE = 5/31/2019	DATE -	REVISED -

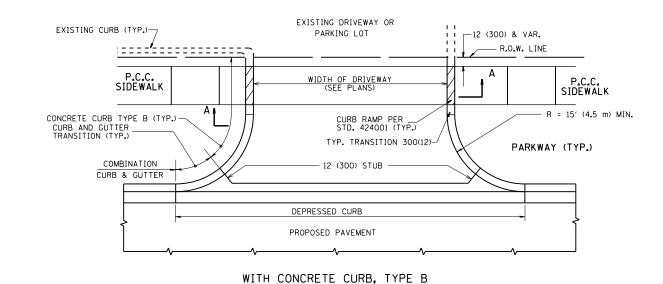
IL 31	IL 31 (WEBSTER ST./AUCUTT RD. TO RATHBONE AVE.) ROADWAY PLAN							COUNTY	TOTAL SHEETS	SHEET NO.
								KANE	32	11
	NUADVVAT FLAN							CONTRACT	NO. 62	2H98
SCALE: 1"= 50'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FE	. AID PROJECT		

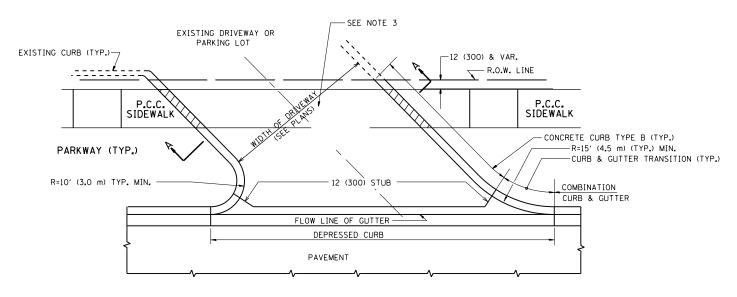




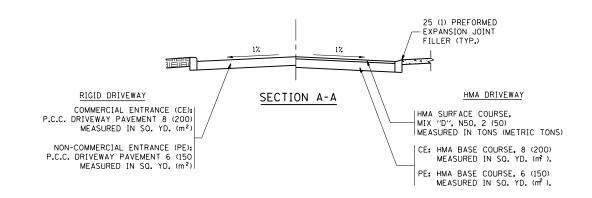


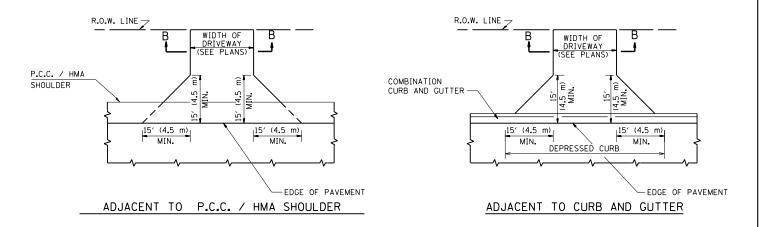


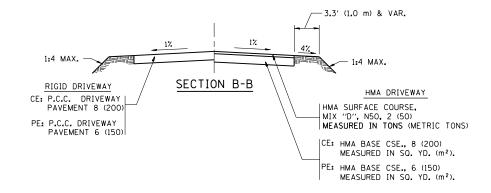




WITH CONCRETE CURB, TYPE B







RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY OUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

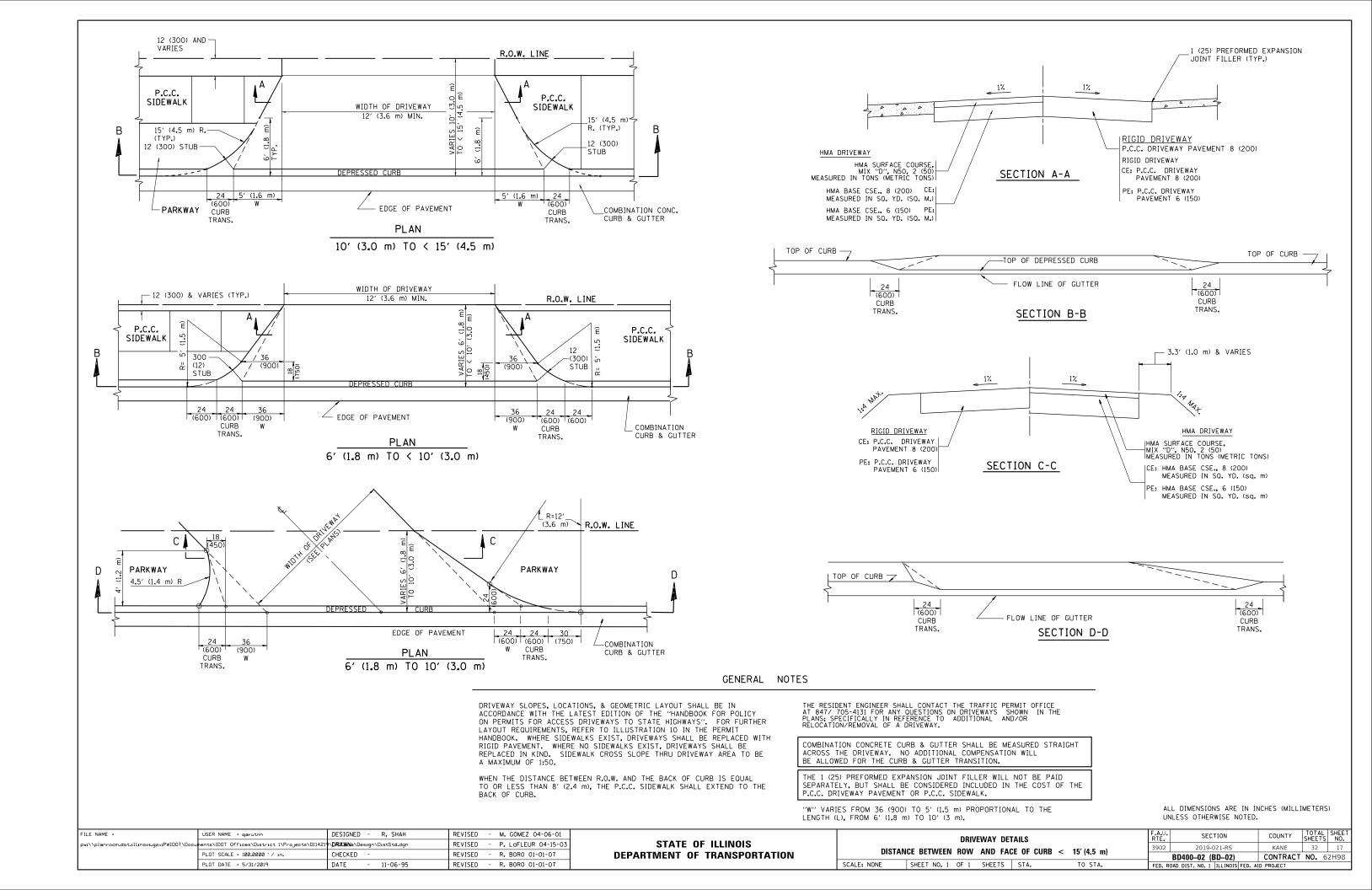
1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

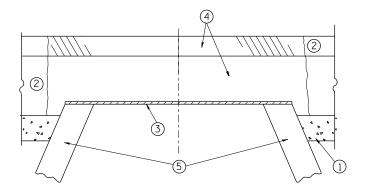
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

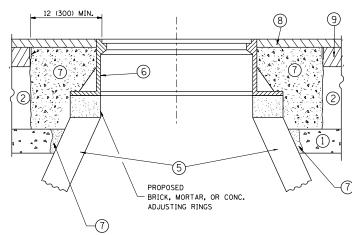
SCALE: NONE

FILE NAME =	USER NAME = qarutnn	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 5/31/2019	DATE - 11-04-95	REVISED - R. BORO 09-06-11

DRI	VEWAY DETAILS –	DISTANCE	BETWEEN	R.O.W.	F.A.U. RTE.	SECTION	COUNTY TOT		SHEET NO.
AND EACE OF CUIDD & EDGE OF CHOULDED > 15' (4.5 m)					3902	2019-021-RS	KANE	32	16
AND FACE OF CURB & EDGE OF SHOULDER > = 15' (4.5 m)				BD0156-07 (BD-01) CONTRACT NO. 62					
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	D 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.

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.

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 PAYEMENT. 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.

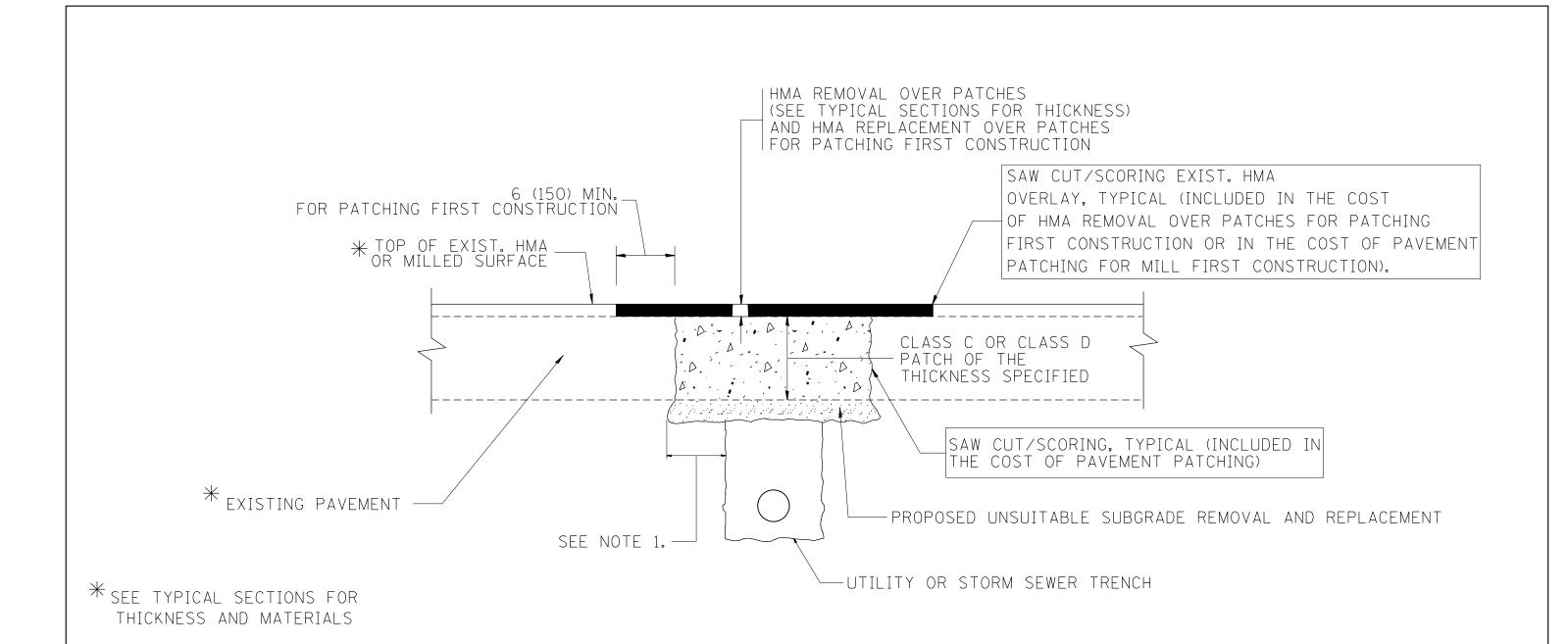
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =		USER NAME = qarutnn	DESIGNED - R. SHAH	REVISED	- F	R. WIEDEMAN 05-14-04
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		PLOT DATE = 5/31/2019	DATE - 10-25-94	REVISED	- F	. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		DETAILS FO	R	
	FRAMES AND LI	DS ADJUSTN	IENT WITH	MILLING
SCALE: NONE	SHEET NO. 1 OF	1 SHEETS	STA.	TO STA.



- 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".

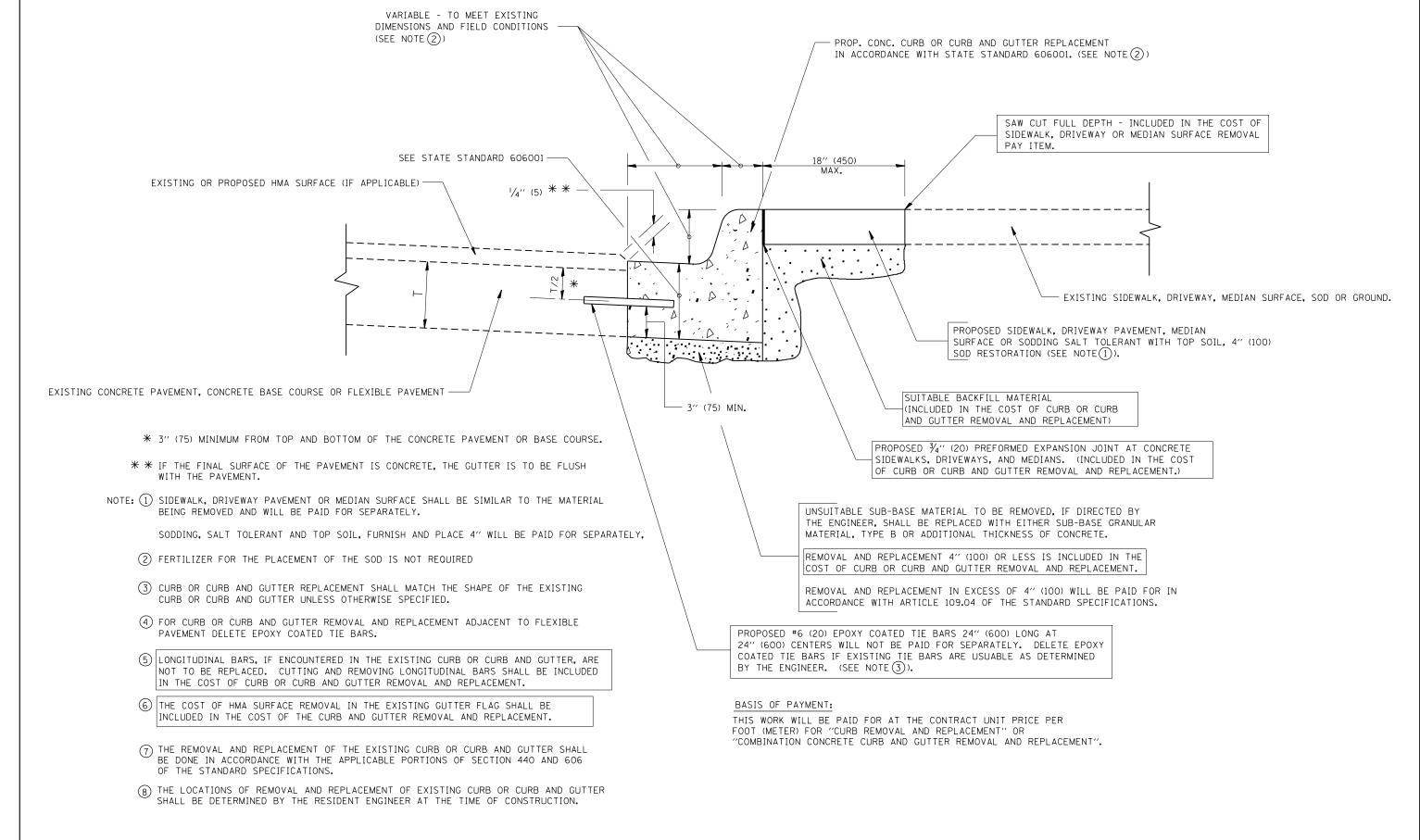
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 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)

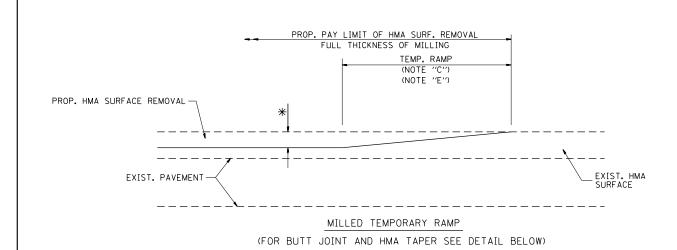
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

FILE NAME =	USER NAME = qaruton	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHI	NC FOR	F.A.U. RTF	SECTION	COUNTY	TOTAL SHEET
pw://planroom.dot.illinois.gov:PWIDOT/Docu	nents\IDOT Offices\District 1\Projects\D1142	21 9\DADWN o\Design\DistStd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				3902	2019-021-RS	KANE	32 19
	PLOT SCALE = 100.0000 ' / in.	OT SCALE = 100.0000 '/ 10. CHECKED - R. BORO 09-04-07 DEPARTMENT OF TRANSPOR		DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT				BD400-04 (BD-22)	CONTRACT	NO. 62H98
	PLOT DATE = 5/31/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.		AD DIST, NO. 1 ILLINOIS FED		

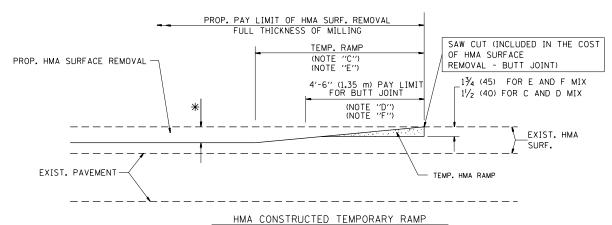


CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

E =	USER NAME = qarutnn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96			CURR OR CURR AND CUTTER	F.A.U	SECTION	COUNTY	SHEETS NO.	T
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT		3302	BD600-06 (BD-24)	CONTRAC	T NO. 62H98	<u>, </u>
	PLOT DATE = 5/31/2019	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED.				-
	oom.dot.illinois.gov:PWIDOT\Docu	com.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D11421 PLOT SCALE = 100.0000 '/ in.	oom.dot.illinois.gov;PWIDOT\Documents\IDOT Dffices\District 1\Projects\DII42!\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Coom.dot.illinois.gov:PWIDDT\Documents\IDDT_Offices\District I\Projects\Dil42!9\DRAWNo\Design\DistStd.dgn REVISED - A. ABBAS_03-21-97 PLOT_SCALE = 100.00000 // in. CHECKED - REVISED - M. GOMEZ_01-22-01	Coom.dot.illinois.gov:PWIDDT\Documents\IDDT Offices\District I\Projects\Dilt21*\DRAWNo\Design\DistStd.dgn REVISED - A. ABBAS 03-21-97 PLOT SCALE = 100.00000 '/ in. CHECKED - REVISED - M. GOMEZ 01-22-01 PLOT SCALE = 100.00000 '/ in. CHECKED - M. GOMEZ 01-22-01	Coom.dot.illinois.gov:PWIDDT\Documents\IDDT Offices\District 1\Projects\Dilt21*\DRAWNo\Design\DistStd.dgn REVISED - A. ABBAS 03-21-97 PLOT SCALE = 100.00000 '/ in. CHECKED - REVISED - M. GOMEZ 01-22-01 PLOT SCALE = 100.00000 '/ in. CHECKED - M. GOMEZ 01-22-01	COM.dot.illinois.goviPWIDOT\Documents\IDDT Offices\District I\Projects\District I\Proj	Oom_dot.illinois.gov/PWIDDT\Documents\DDT Offices\District \Projects\District \Projects\D	Com.dot.illinois.gov:PWIDDT\Documents\IDDT\Offices\District\I\Projects\District\I\Proj	CURB OR CURB AND GUTTER REVISED - A. ABBAS 03-21-97 STATE OF ILLINOIS REWOVAL AND REPLACEMENT REMOVAL AND REPLACEMENT	CURB OR CURB AND GUTTER REVISED - A. ABBAS 03-21-97 REVISED - M. COMEZ 01-22-01 REMOVAL AND REPLACEMENT REMOVAL AND REPLACEMENT



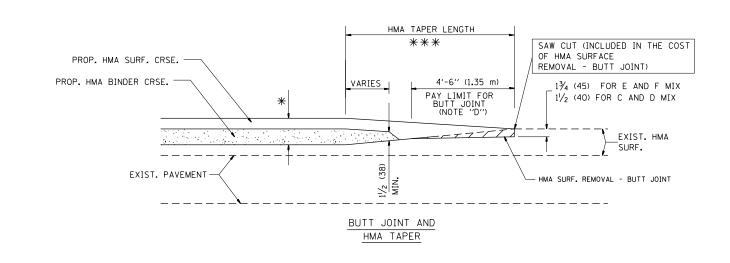
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

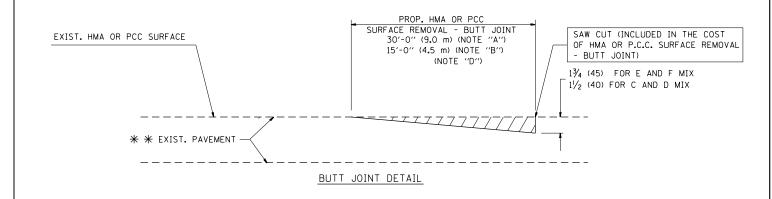
OPTION 2

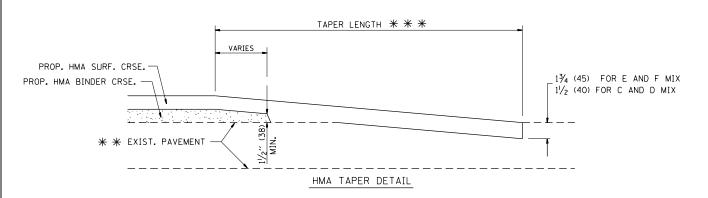
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

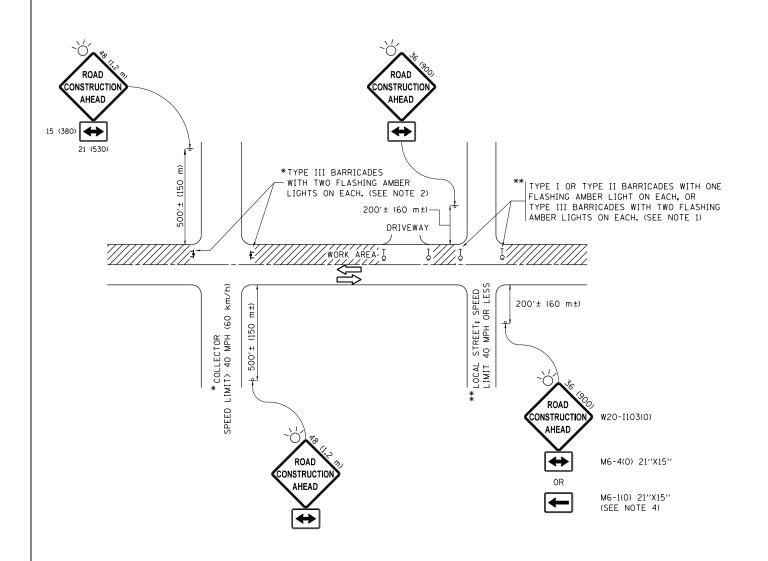
* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

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 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- 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).

- 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 ENGINEER
- 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.

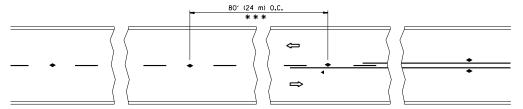
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = USER NAME = garuton		DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw:\\planroom.dot.illinois.gov:PWIDOT\Docu	nents\IDOT Offices\District 1\Projects\Di1421	\ DROWN o\Design\DistStd.dgn	REVISED -T. RAMMACHER 01-06-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 5/31/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

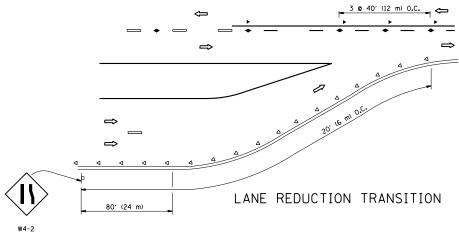
					TION FOR DRIVEWAYS
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.

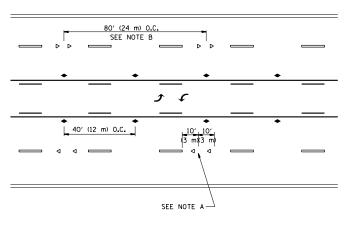
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
3902	2019-021-RS	KANE	32	22
	TC-10	CONTRACT	NO. 6	2H98
	ILLINOIS FED. AI	D PROJECT		



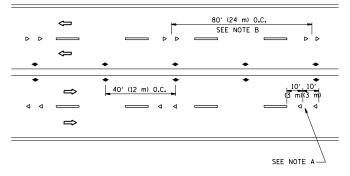
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

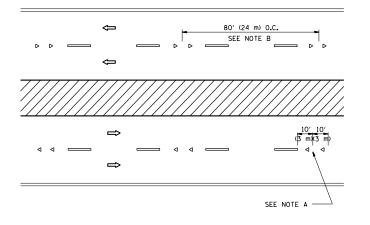




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 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.

SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS

USE TWO-WAY MARKERS.

LEFT TURN

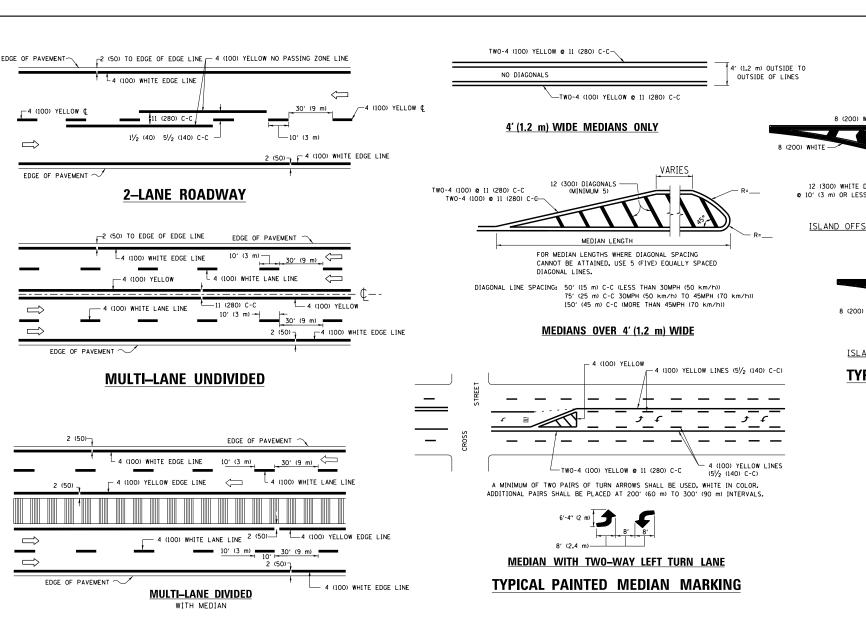
All dimensions are in inches (millimeters) unless otherwise shown.

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

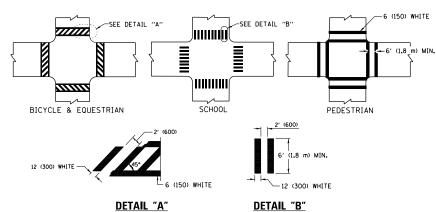
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pw://planroom.dot.illinois.gov:PWIDOT/Docu	nents\IDOT Offices\District 1\Projects\D114219	\ DROWN a\Design\DistStd.dgn	REVISED	-T. RAMMACHER C	03-12-99	
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	PLOT DATE = 5/31/2019	DATE -	REVISED	- C. JUCIUS C	9-09-09	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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



TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

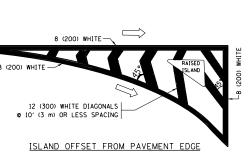
−50′ (15 m) TO 200′ (60 m) || OVER 200' (60 m) 6 (150) WHITE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SO. FT. (1.5 m²) (NLY AREA = 20.8 SO. FT. (1.9 m²)

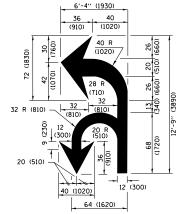
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

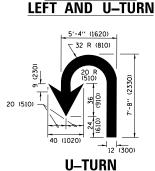
TYPICAL TURN LANE MARKING

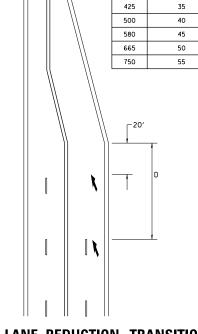






COMBINATION





D(FT)

345

SPEED LIMIT

LANE REDUCTION TRANSITION

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

TYPE OF MARVING	WIDTH OF LINE	PATTERN	COLOR	CDACING /DEMADI/C
TYPE OF MARKING				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	WHITE	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 & EOUESTRIAN) 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) T0 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 (REOUIRED FOR SHOULDERS > 8')	12 (300) © 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h 150' (45 m) C-C (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.

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

FILE NAME = DESIGNED - EVERS REVISED - C. JUCIUS 09-09-09 USER NAME = garutnn ents\IDOT_Offices\District_I\Projects\DI1421**\DRAWN**a\Design\DistStd.dgn REVISED -C. JUCIUS 07-01-13 CHECKED REVISED -C. JUCIUS 12-21-15 PLOT DATE = 5/31/2019 DATE REVISED -C. JUCIUS 04-12-16

1	DISTRICT ONE	F.A.U RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	TYPICAL PAVEMENT MARKINGS	3902	2019-021-RS	KANE	32	24
ı			TC-13	CONTRACT	NO. 6	52H98
	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

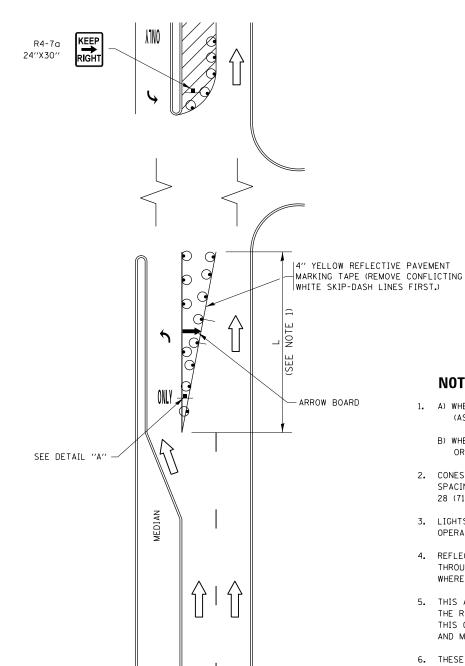


FIGURE 1

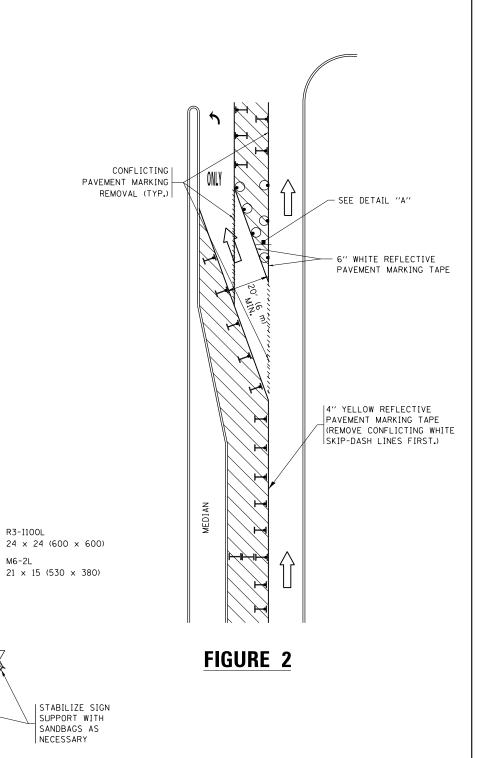
LEGEND WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY

TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 \times 15 (530 \times 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

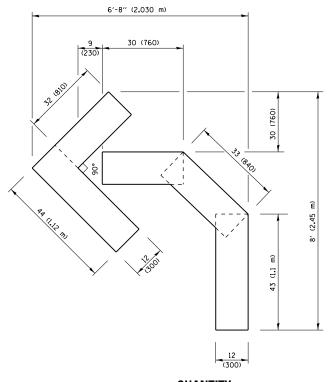


DETAIL A

TURN

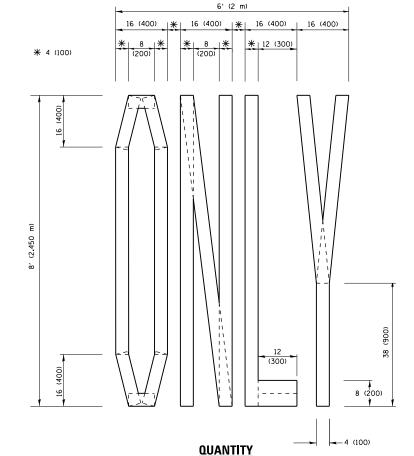
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = qeruton	REVISED -T. RAMMACHER 09-08-94 REVISED - R. BORO 09-14-09		TRAFFIC CONTROL AND PROTECTION AT TURN BAYS	F.A.U RTF.	SECTION	COUNTY SH	TOTAL SH	ĒT O.
pw://planroom.dot.illinois.g	ov:PWIDOT\Documents\IDOT_Offices\District_1\Projects\DI	1421 REDUGSEDDesign\Disks\ddusSEH 11-07-95 REVISED - A. SCHUETZE 07-01-13	011112 01 122111010	(TO REMAIN OPEN TO TRAFFIC)	3902	2019-021-RS	KANE	32	25
	PLOT SCALE = 100.0000 '/ in.	REVISED - A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION	(TO REIVIAIN OPEN TO TRAFFIC)	· ·	TC-14	CONTRACT N	NO. 62H	98
Default	PLOT DATE = 5/31/2019	REVISED -T. RAMMACHER 01-06-00 REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		_

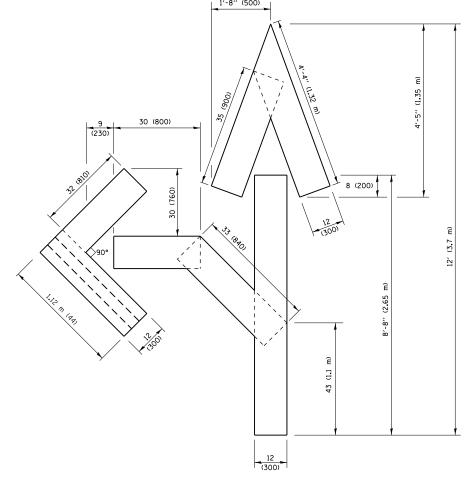


QUANTITY

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)

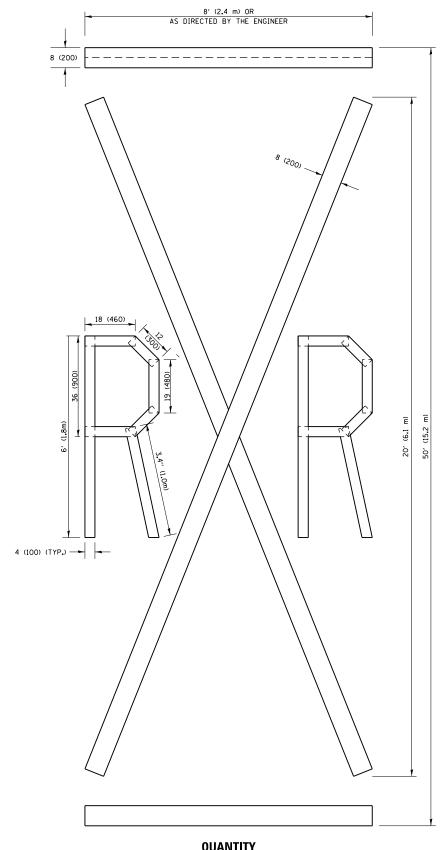


QUANTITY

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.



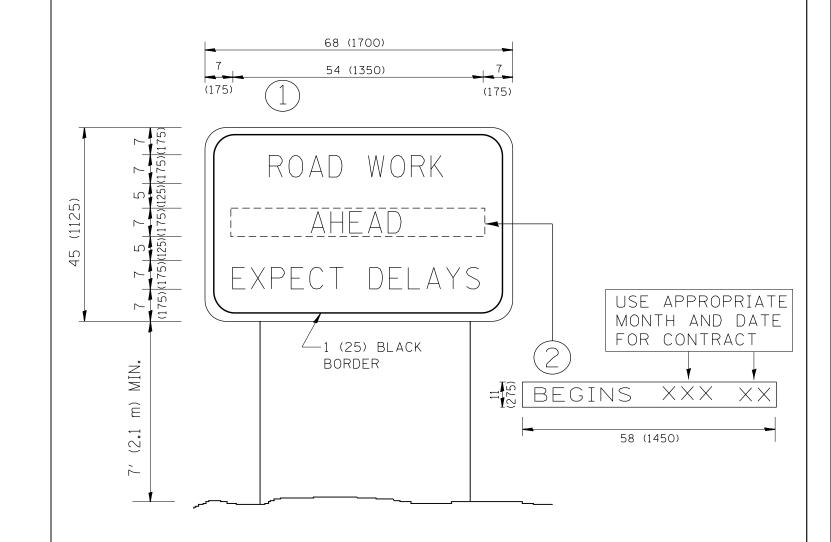
QUANTITY

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.

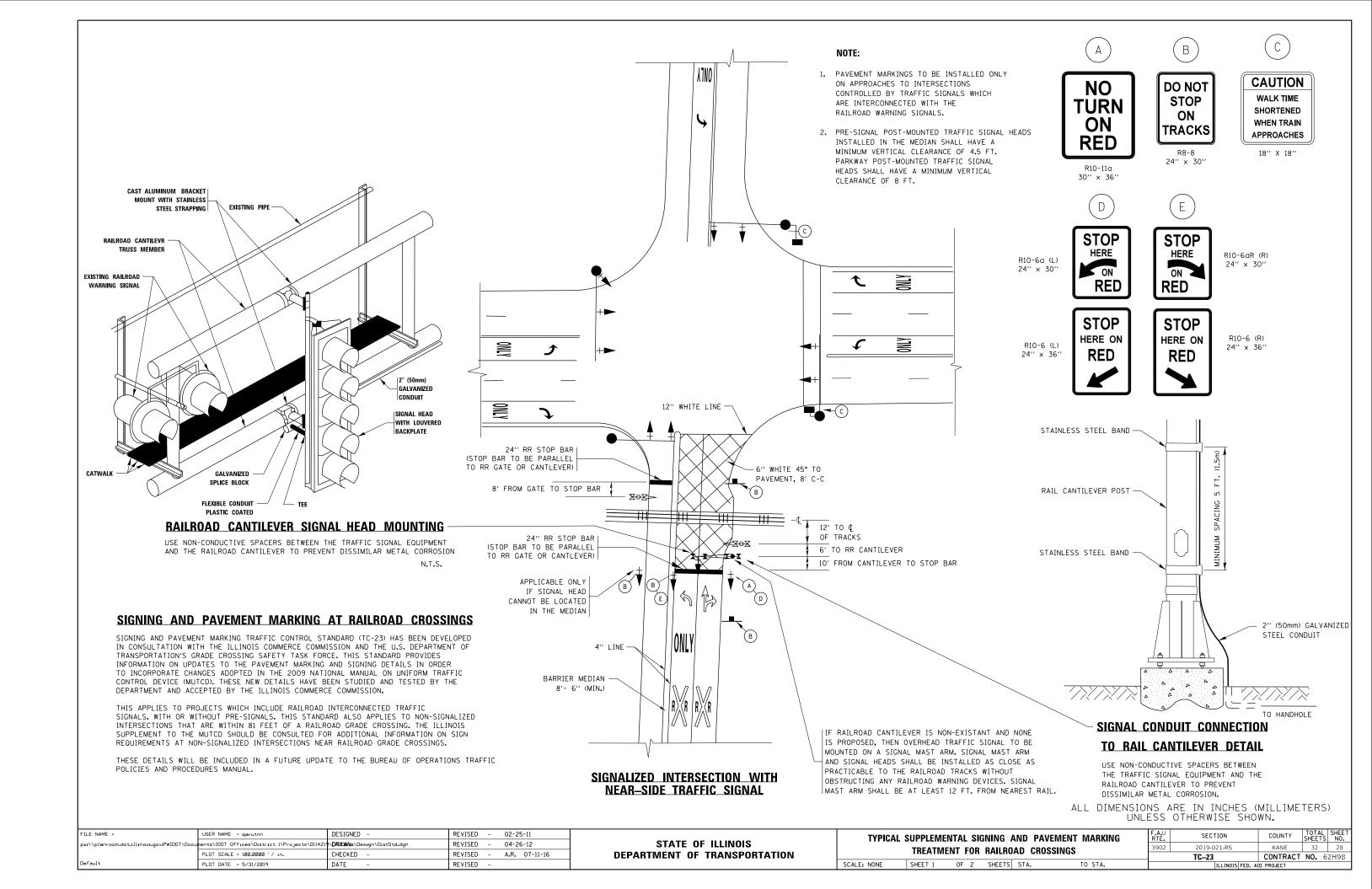
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	-E. GOMEZ 08-28-00
i	PLOT DATE = 5/31/2019	DATE - 09-18-94	REVISED	- A. SCHUETZE 09-15-16

							F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHORT	TERM	PAVEN	/IENT	MARKING	LETTERS AND	SYMBOLS	3902	2019-021-RS	KANE	32	26
								TC-16	CONTRACT	NO. 6	2H98
SCALE: NONE	SHEET N	NO. 1 (OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 JULINOIS FED. AL	D PROJECT		



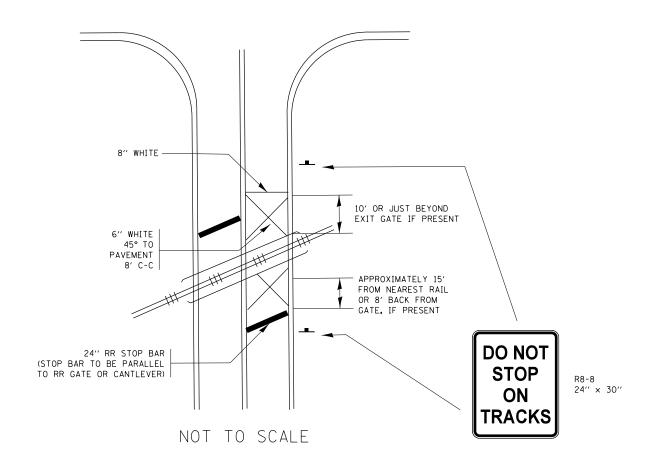
- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START 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	FILE NAME =	USER NAME = qarutnn	DESIGNED -	REVISED - R. MIRS 09-15-9			ARTERIAL ROAD		F.A.U. RTF.	SECTION	COUNTY	TOTAL S	SHEET NO.
P	w:\\planroom.dot.illinois.gov:PWIDOT\Docu	·	\DRXX\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION SIGN		3902	2019-021-RS	KANE	32	27
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 02-0						TC-22	CONTRACT	NO. 62	2H98
		PLOT DATE = 5/31/2019	DATE -	REVISED - C. JUCIUS 01-31-		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD I	DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		\neg



TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS

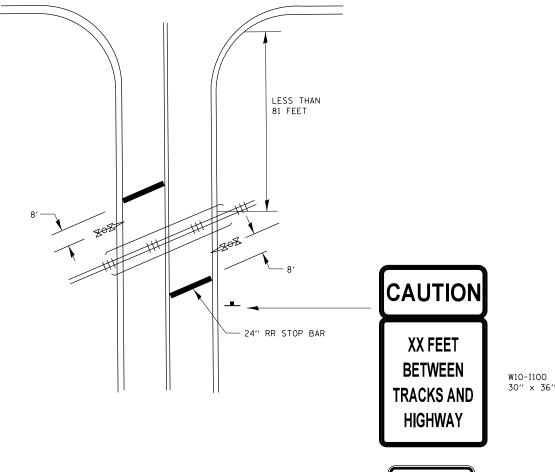
WITH SIGNALIZED INTERSECTION



NOTE:

- 1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- 2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION. (SEE DETAIL FOR PRE-SIGNALS).

WITH NON-SIGNALIZED INTERSECTION 81' OR LESS TO CLOSEST RAIL



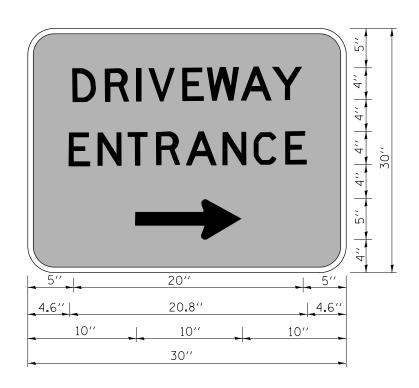
NOTE:

- 1. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- 2. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKING EXTEND TO THE INTERSECTION.

DO NOT **STOP** ON **TRACKS**

R8-8 24" × 30"

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3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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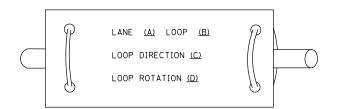
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DEPARTMENT OF	TRANSPORTATION

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					3902	2019-021-RS	KANE	32	30		
						TC-26	CONTRACT NO. 62H98				
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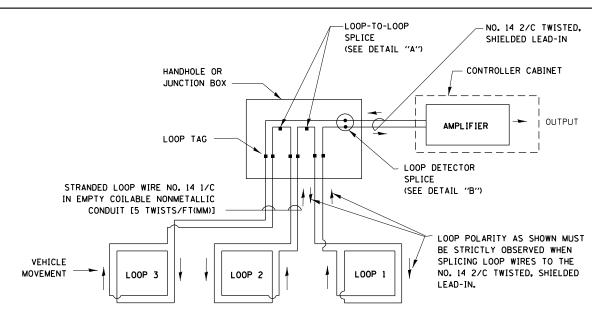
LOOP DETECTOR NOTES

- 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.

LOOP LEAD-IN CABLE TAG

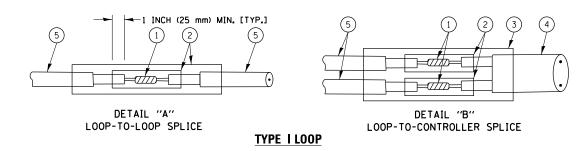


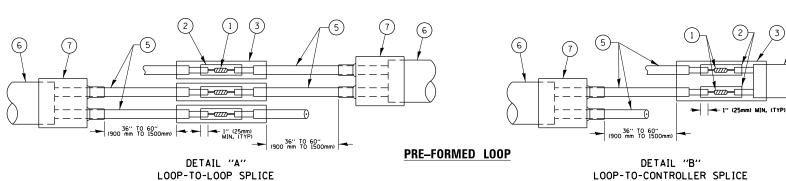
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.





LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

SECTION

2019-021-RS

TS-05

COUNTY

KANE

32 31

CONTRACT NO. 62H98

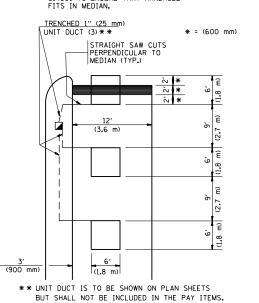
(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

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PLOT SCALE = 100.0000 '/ In. CHECKED - REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS				ETAILS		
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PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER PAVED OR NON-PAVED SHOULDER 1'' (25 mm) UNIT DUCT TRENCHED TO E/P ** * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

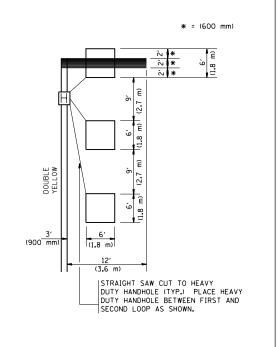
HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

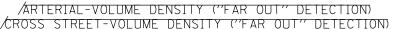
LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

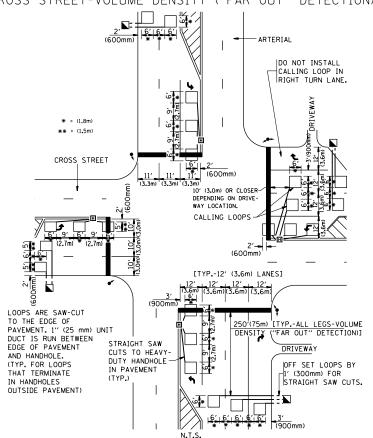


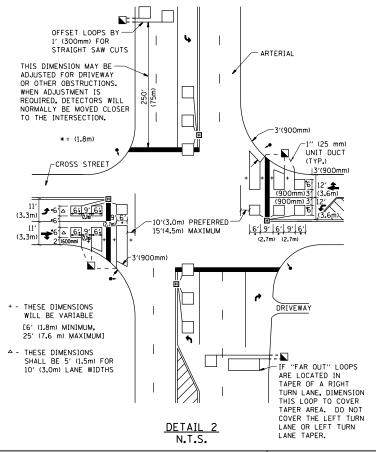
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE



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





NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIFLDED.
- * 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, 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.

JOTE.

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.

DETAIL

DISTRICT 1 - DETECTOR LOOP INSTALLATION		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
DETAILS FOR ROADWAY RESURFACING	3902	2019-021-RS	KANE	32	32		
DETAILS FOR HOADWAY RESONTACING		TS-07 CONTRACT NO. 62H9					
SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED RO	FED ROAD DIST NO 1 ILLINOIS FED AID PROJECT					