STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

D-91-203-19

SECTION COUNTY SHEETS ND.

2019-078-R56-5W COOK 19 1

LLINOS CONTRACT NO. 62148

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

ROUTE OR 309A: OLD WESTERN AVENUE BROADWAY STREET TO WESTERN AVENUE SECTION: 2019-076-RS&SW

DESIGNED OVERLAY, ADA IMPROVEMENTS COOK COUNTY

C-91-436-19

THIS PROJECT IS LOCATED IN THE CITY OF BLUE ISLAND

2018 ADT = 2000 VPD POSTED SPEED LIMIT = 25 MPH

PROJECT ENDS
STA. 21 + 64

PROJECT ENDS
STA. 21 + 64

PROJECT ENDS
STA. 21 + 64

PROJECT BEGINS
STA. 11 + 67

PROJECT BEGINS
STA. 11 + 67

WORTH TOWNSHIP

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

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

ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 62J48

GROSS LENGTH = 997 FT. = 0.19 MILE NET LENGTH = 997 FT. = 0.19 MILE STATE OF BLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED A DATE OF DESIGN AND ENVIRONMENT

ENGINEER OF DESIGN AND ENVIRONMENT

20

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

LOCATION OF SECTION INDICATED THUS: - -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

TRAFFIC DATA

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INDEX OF SHEETS

SHEET NO. DESCRIPTION

- 1 COVER SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
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- 5 TYPICAL SECTIONS
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- 7 PROPOSED PAVEMENT WIDENING DETAIL
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- DETECTABLE WARNINGS (SPECAIL) DETAIL
- 10 FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
- 11 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
- 12 CURB AND CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
- 13 BUTT JOINT AND HMA TAPER DETAILS (BD-32)
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- 17 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
- 18 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- 19 DRIVEWAY ENTRANCE SIGNING SIGN (TC-26)

STATE STANDARDS

MBOLS, ABBREVIATIONS AND PATTERNS	CAMBULC	CIVIUVDU	000001-07
MROLS ARREVIATIONS AND PATTER	SYMBOLS	SIANDARD	UUUUUI-U7

442201-03 CLASS C AND D PATCHES

701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE

701011-04 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" DAY ONLY

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIVED

701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701801-06 SIDEWALK CORNER OR CROSSWALK CLOSURE

701901-08 TRAFFIC CONTROL DEVICES

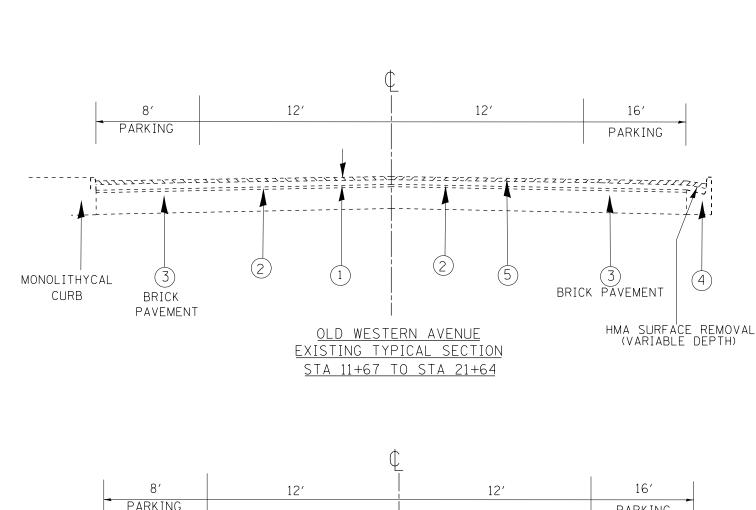
GENERAL NOTES

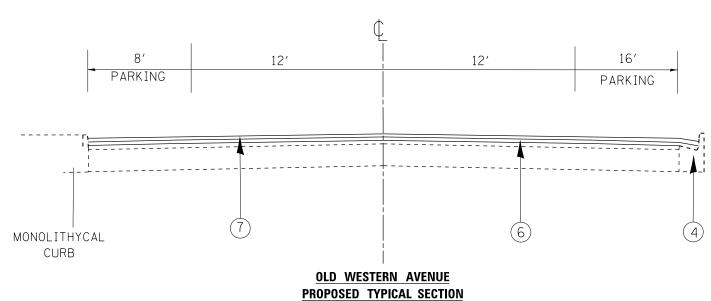
- 1. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- 2. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- 3. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 4. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 6. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- 7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 9. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 10. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS, AND 1 INCH. WHERE THE SPEED LIMIT IS OVER 40 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- 11. 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.
- 12. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- 13. THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI (DON.CHIARUGI@ILLINOIS.GOV), AREA TRAFFIC FIELD ENGINEER, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 14. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
- 15. CURB & GUTTER REMOVAL AND REPLACEMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 16. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION

USER NAME = Josephm	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2019	DATE -	REVISED -

	SIIMMARY	OF QUANTITIES		URBAN		CONSTRUC	TION TYPE COD	E		AMMI 12	RY OF QUANTITIES		LIDDAN		COI	NSTRUCTION TYPE	CODE	
	JOWNANT	OF GOARTITES		TOTAL	100%	100%				SUMMA	O GONNITTES		URBAN	100%	100%			
CODE NO		ITEM	UNIT	QUANTITIES		STATE			CODE NO		ITEM	UNIT	QUANTITIES	STATE	STATE			
					0005	0005								0005	0005			
20200100	EARTH EXCAVATION	ı	CU YD	55	4	51			44000163	HOT-MIX ASP	IALT SURFACE REMOVAL, 3	SO YD	4713	4713				
										1/2"								
21101505	TOPSOIL EXCAVATI	ON AND PLACEMENT	CU YD	15		15												
									44000300	CURB REMOVAL		FOOT	91		91			
30300112	AGGREGATE SUBGRA	DE IMPROVEMENT 12"	SO YD	87		87												
									44000600	SIDEWALK REM	IOVAL	SO FT	245	245				
35600706	HOT-MIX ASPHALT	BASE COURSE WIDENING, 7	SQ YD	66		66												
	1/2"								44002214	HOT-MIX ASP	IALT REMOVAL OVER PATCHES, 3	SO YD	85	85				
										1/2"								
40600290	BITUMINOUS MATER	RIALS (TACK COAT)	POUND	2158	2120	38												
									44201717	CLASS D PAT	CHES, TYPE II, 6 INCH	SO YD	6	6				
40600400	MIXTURE FOR CRAC	CKS, JOINTS, AND	TON	9	8	1												
	FLANGEWAYS								44201721	CLASS D PATO	HES, TYPE III, 6 INCH	SO YD	23	23				
40600982	HOT-MIX ASPHALT	SURFACE REMOVAL - BUTT	SQ YD	100	100				44201723	CLASS D PATO	HES, TYPE IV, 6 INCH	SQ YD	45	45				
	JOINT																	
									60266600	VALVE BOXES	TO BE ADJUSTED	EACH	2	2				
40601005	HOT-MIX ASPHALT	REPLACEMENT OVER	TON	17	17													
	PATCHES								60300305	FRAMES AND I	IDS TO BE ADJUSTED	EACH	10	10				
40602985	HOT-MIX ASPHALT	BINDER COURSE, IL-9.5,	TON	527	527				60603500	COMBINATION	CONCRETE CURB AND GUTTER,	FOOT	91		91			
	N70									TYPE B-6.06								
40604062	HOT-MIX ASPHALT	SURFACE COURSE, IL-9.5.	TON	402	396	6			* 66900200	NON-SPECIAL	WASTE DISPOSAL	CU YD	55	4	51			
	MIX "D", N70																	
									* 66900530	SOIL DISPOSA	AL ANALYSIS	EACH	1	1				
42001300	PROTECTIVE COAT		SO YD	101	80	21												
									* 66901001	REGULATED SI	BSTANCES PRE-CONSTRUCTION	LSUM	1	1				
42400200	PORTLAND CEMENT	CONCRETE SIDEWALK 5	SO FT	245	245					PLAN								
	INCH																	
									* 66901003	REGULATED SU REPORT	BSTANCES FINAL CONSTRUCTION	LSUM	1	1		*	= SPECIALT	Y ITEMS
FILE NAME =		INAME = Velichkovvv DI istrict \\Projects\Di20319\CADData\Design\Di20319-sht-p\Barrier	ESIGNED -	•	REVISED REVISED	-		STATE OF	ILLINOIS		SUMMARY				O.R. RTE.	SECTION	COUNTY	TOTAL SHE SHEETS NO
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	SUMMARY OF QUANTITIES		I I D D A A '		CONSTRUCT	ION TYPE C	ODE			SUMMARY OF QUANTITIES		LIDDAN		CONS	STRUCTION TYPE	CODE	
	SUMMENT OF QUANTITIES		URBAN TOTAL	100%	100%					SUMMANT OF QUANTITIES		URBAN	100%	100%			
CODE NO	ITEM	UNIT	QUANTITIES		STATE				CODE NO	ITEM	UNIT	QUANTITIES		STATE			
				0005	0005								0005	0005			
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	1	1				X6030310 FRA	AMES AND LIDS TO BE ADJUSTED	EACH	13	13				
									(SF	PECIAL)							
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6													
									X7030005 TEM	MPORARY PAVEMENT MARKING REMOVAL	SO FT	26	26				
67100100	MOBILIZATION	L SUM	1	1													
									Z0004562 COM	MBINATION CONCRETE CURB AND GUTTER	FOOT	230	230				
70102620	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					REN	MOVAL AND REPLACEMENT							
	STANDARD 701501																
									Z0018500 DRA	AINAGE STRUCTURES TO BE CLEANED	EACH	10	10				
70102635	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1													
	STANDARD 701701								Z0030850 TEM	MPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
70102640	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1					Z0033700 LON	NGITUDINAL JOINT SEALANT	FOOT	997	997				
	STANDARD 701801																
70300100	SHORT TERM PAVEMENT MARKING	FOOT	154	154													
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	52	52													
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2993	2993													
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	77	77													
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	2993	2993													
	4"																
x0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1													
X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	25	25													
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	445	445											*	SPECIALT	
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	PLOT DATE = 10/25/2019	DATE -		REVISED						SCALE: SHEET NO.			O STA.		DIST. NO. 1 ILLINOIS FED. A		





STA 11+67 TO STA 21+64

LEGEND

- (1) EXISTING HMA SURFACE COURSE, $3 \frac{1}{2}$
- (2) GRAVEL OVERLAY
- (3) EXISTING BRICK PAVEMENT, $5 \frac{1}{2}$ "+/-
- (4) EXISTING CURB (OVERLAID GUTTER FLAG)
- (5) PROPOSED HMA SURFACE REMOVAL, 3 1/2"
- (6) PROPOSED HMA BINDER COURSE, IL-9.5, N70, 2"
- (7) PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 $\frac{1}{2}$ "

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT
MIXTURE TYPE	AIR VOIDS @ Ndes	PROGRAM (QMP)
DESIGNED OVERLAY		
HMA SURFACE COURSE, MIX "D", IL-9.5 mm, N70	4% @ 70 GYR.	QC/QA
HMA BINDER COURSE, IL-9.5 mm, N70	4% @ 70 GYR.	QC/QA
PAVEMENT PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
PAVEMENT WIDENING		
HMA SURFACE COURSE, MIX "D", IL-9.5 mm, N70	4% @ 70 GYR.	QC/QA
HMA BASE COURSE WIDENING, 7 1/2" (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
OMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA); QUALITY CO	ONTROL FOR PERFORMANCE	(QCP); PAY FOR PERFORMANCE (PFP)

NOTES:

1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

SHEET

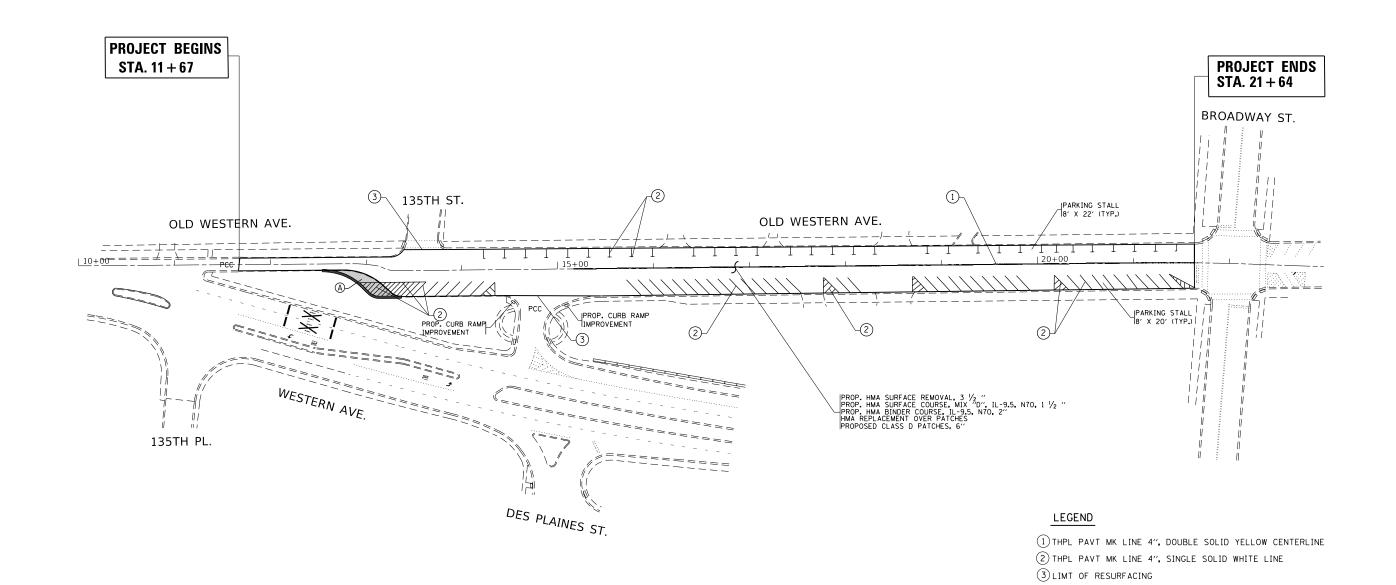
- 2. THE UNIT WEIGHT TO BE USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- 3. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
- 4. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA BINDER IL-9.5

USER NAME = Velichkovvv	DESIGNED -	REVISED -	
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/25/2019	DATE -	REVISED -	

STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

TYPIC	AL SECTI	ONS		O.R. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OLD WESTERN AVENUE				309A	2019-076-RS&SW	/	соок	19	5
							CONTRAC [*]	T NO. 6	2J48
OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		





- 1) ALL FINAL PAVEMENT MARKINKS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE).
- 2) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.

JSER NAME = Velichkovvv DESIGNED -REVISED DRAWN REVISED LOT SCALE = 100.0000 ' / in. CHECKED REVISED DATE

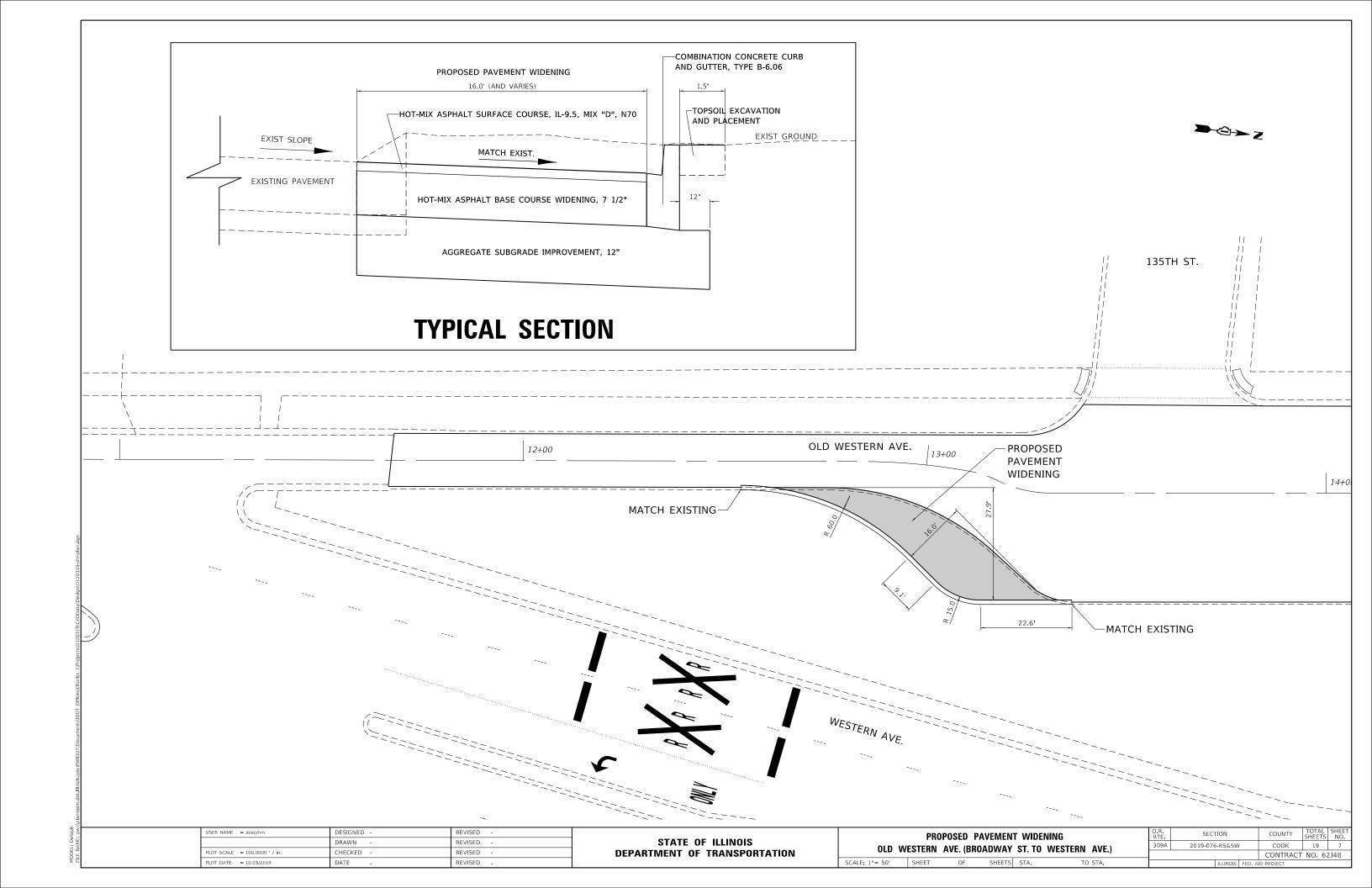
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

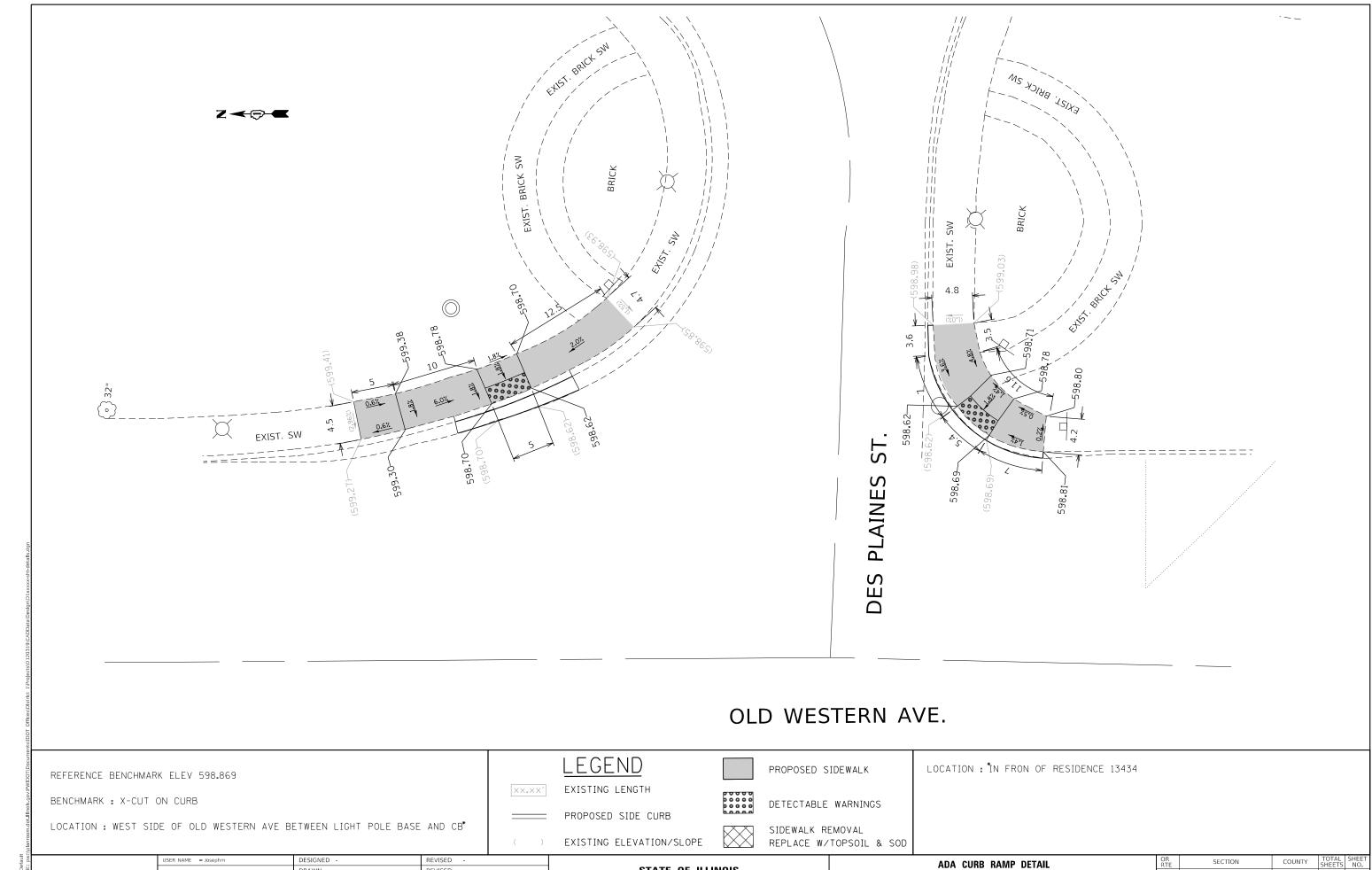
PROPOSED PAVEMENT WIDENING

PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 ½ "
PROP. HMA BASE COURSE WIDENING, 7 ½"
PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"

ROADWAY & PMK PLAN OLD WESTERN AVE. (BROADWAY ST. TO WESTERN AVE.) SCALE: 1"= 50' SHEET OF SHEETS STA.

SECTION SHEETS NO. 2019-076-RS&SW COOK CONTRACT NO. 62J48





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

2019-076-RS&SW

OLD WESTERN AVE. AT DES PLAINES ST.

OF SHEETS STA.

COOK 19 8

CONTRACT NO. 62J48

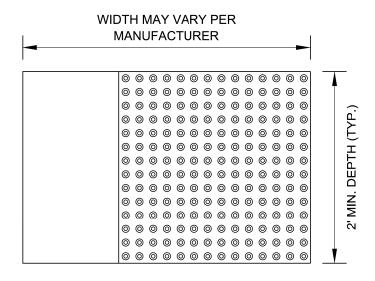
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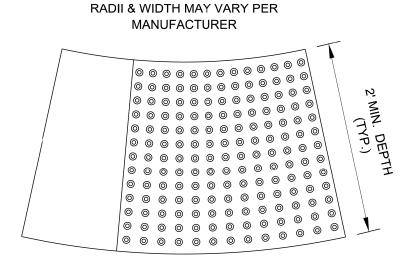
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REVISED

STRAIGHT DETECTABLE WARNING UNITS



RADIAL DETECTABLE WARNING UNITS

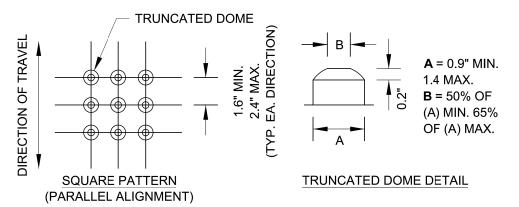


DETECTABLE WARNING UNIT SIZES

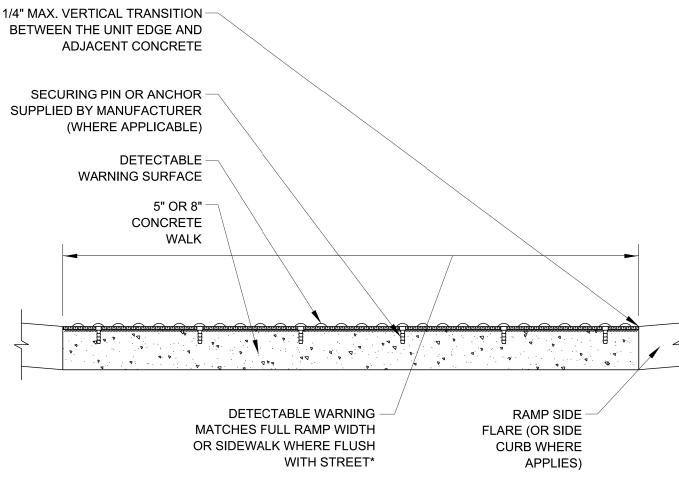
- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.
- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADII WITH THE PRODUCT MANUFACTURER.

GENERAL NOTE:

THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



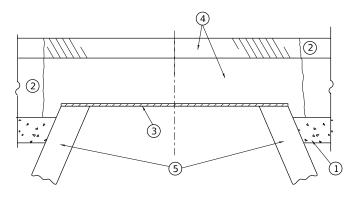
UNIT PATTERN & DOME DETAIL

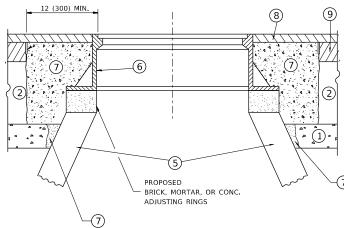


*A BORDER OF 2 INCHES OR LESS AROUND THE DETECTABLE WARNING SURFACE IS
ACCEPTABLE IF REQUIRED FOR PROPER INSTALLATION OF THE DETECTABLE WARNING SURFACE PRODUCT

DETECTABLE WARNING UNIT SECTION

USER NAME = footemj	DESIGNED -	REVISED -		DETECTABLE WARNINGS (SPECIAL)						O.R. RTF.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS							309A	2019-076-RS&SW	соок	19	9
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	NO. 6	2J48
PLOT DATE = 10/8/2019	DATE - 06-20-2017	REVISED -		SCALE: NONE	SHEET 1	OF 1 SH	HEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT		





NOTES

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 1½ (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.
- $oldsymbol{*}$ 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 FINGINFER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- (7) CLASS PP-1 *CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- 8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX

 (5) EXISTING STRUCTURE
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

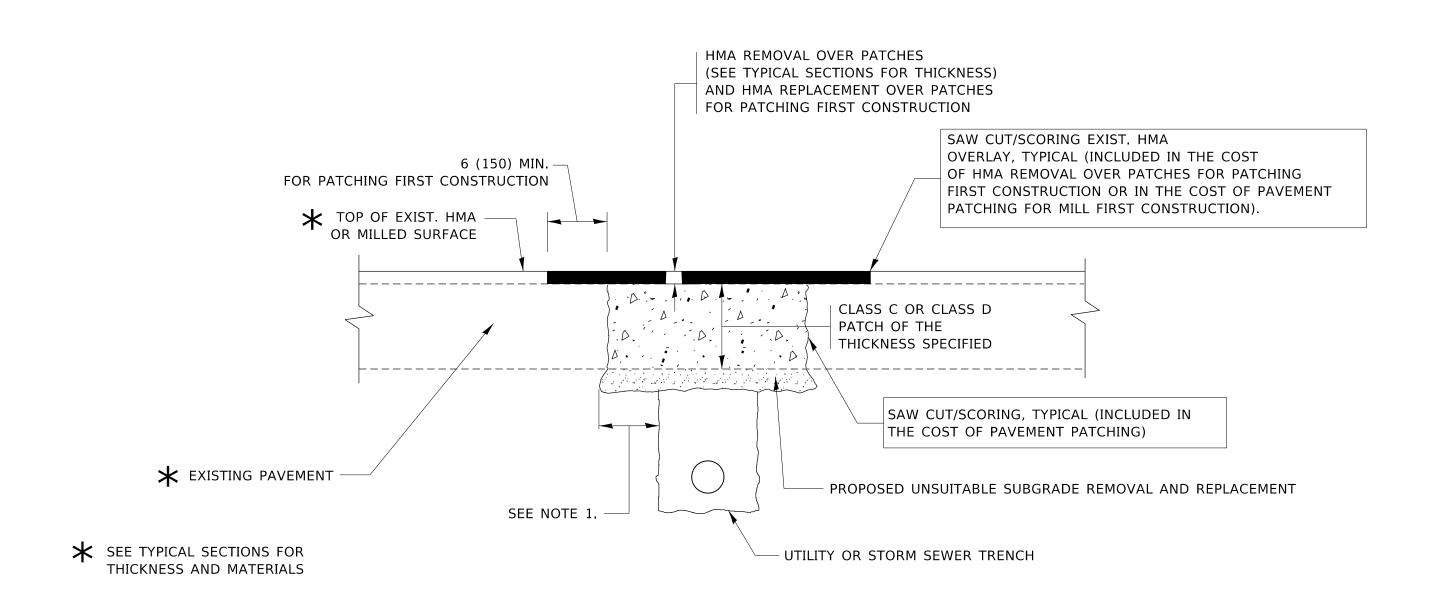
FRAMES AND LIDS ADJUSTMENT WITH MILLING

NE SHEET 1 OF 1 SHEETS STA. TO STA.

 O.R.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS
 NO.

 309A
 2019-076-RS6.SW
 COOK
 19
 10

 BD600-03 (BD-8)
 CONTRACT NO.
 62J48



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)

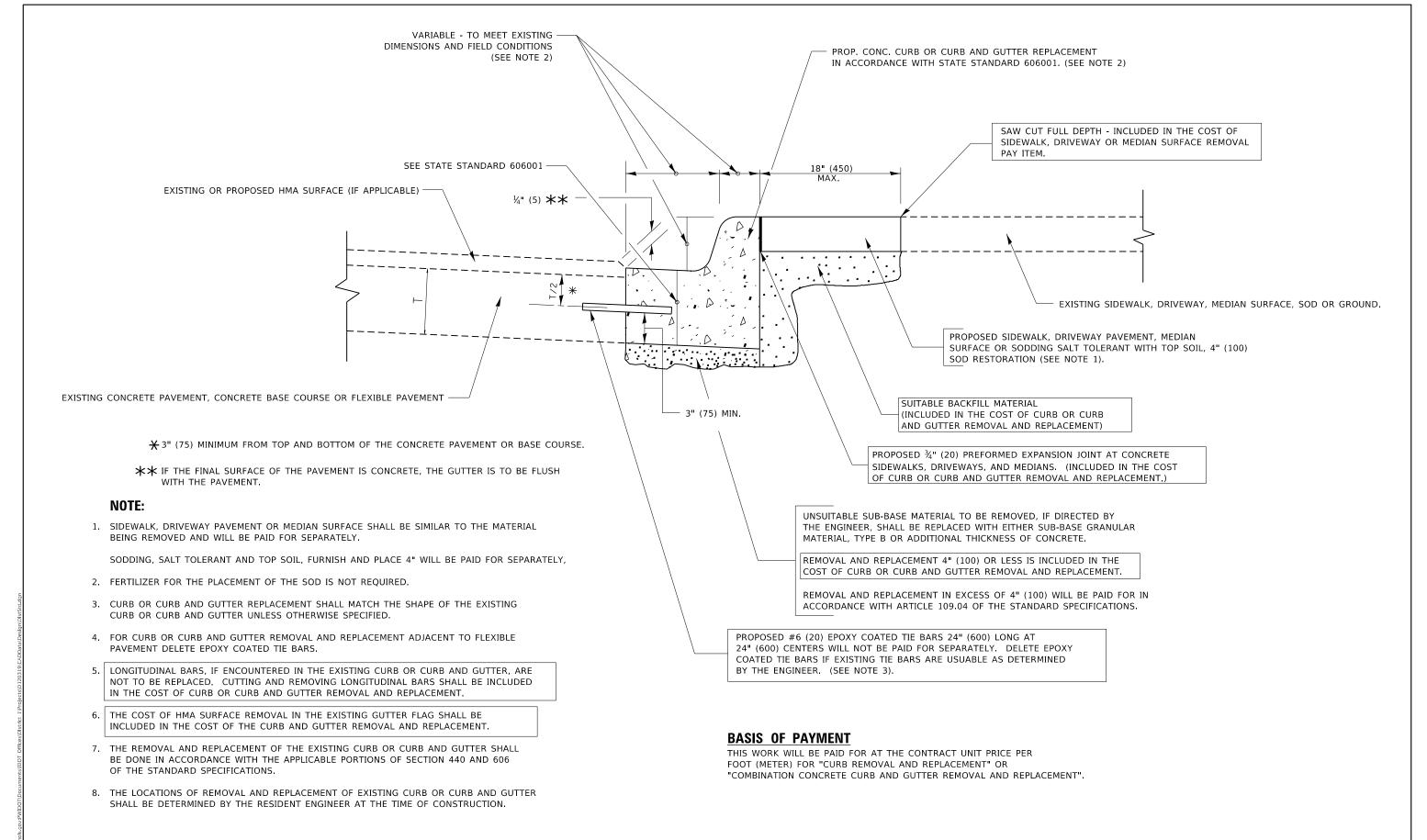
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 4½ 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.

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

USER NAME = Josephm	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	07.77 07 11.111010	PAVEMENT PATCHING FOR	RTE.	SECTION	COUNTY
	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS	HMA SURFACED PAVEMENT	309A	2019-076-RS&SW	соок
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	IIIVIA SUNI AGED FAVEIVIEIVI		BD400-04 (BD-22)	CONTRACT
PLOT DATE = 10/25/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT



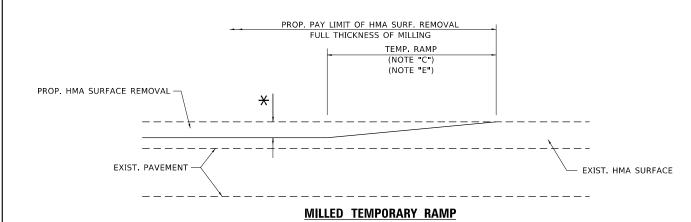
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

USER NAME = Josephm	DESIGNED -	A. HOUSEH	REVISED	-	R. SHAH 10-03-96
	DRAWN -		REVISED	-	A. ABBAS 03-21-97
PLOT SCALE = 100.0000 / in.	CHECKED -		REVISED	-	M. GOMEZ 01-22-01
PLOT DATE = 10/25/2019	DATE -	03-11-94	REVISED	-	R. BORO 12-15-09

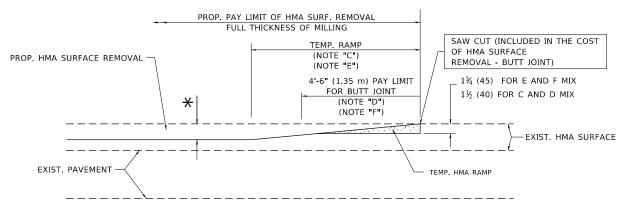
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

-	CURB	OR	CU	CURB OR CURB AND GUTTER											
REMOVAL AND REPLACEMENT															
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(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

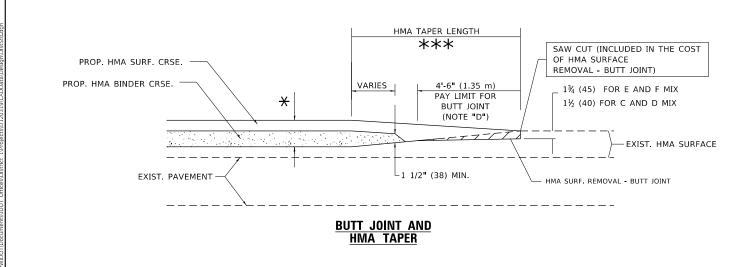


HMA CONSTRUCTED TEMPORARY RAMP

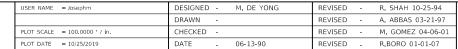
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

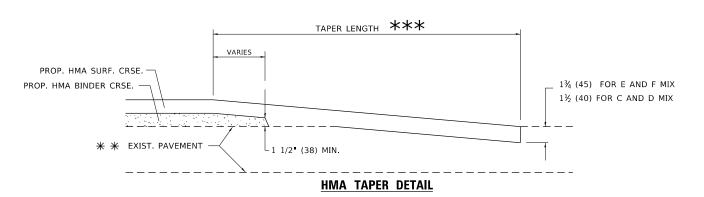


DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS BD400-05 BD32 SHEET 1 OF 1 SHEETS STA. TO STA.

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

PROP. HMA OR PCC SURFACE REMOVAL - BUTT JOINT SAW CUT (INCLUDED IN THE COST 30'-0" (9.0 m) (NOTE "A") EXIST. HMA OR PCC SURFACE -OF HMA OR P.C.C. SURFACE REMOVAL 15'-0" (4.5 m) (NOTE "B") - BUTT JOINT) (NOTE "D") 1¾ (45) FOR E AND F MIX 1½ (40) FOR C AND D MIX * * EXIST. PAVEMENT **BUTT JOINT DETAIL**



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'-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. * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- $\star\star\star$ 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

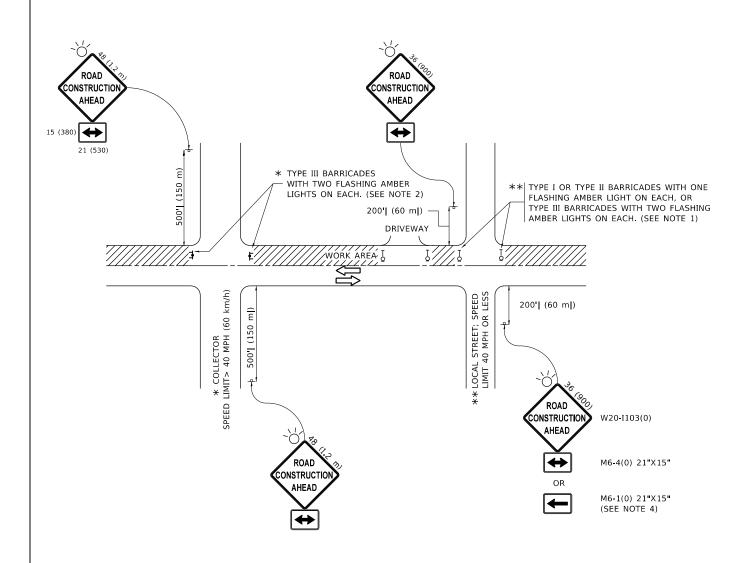
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT" JOINT".

SCALE: NONE

SECTION COUNTY 2019-076-RS&SW COOK 19 13

CONTRACT NO. 62J48

STATE OF ILLINOIS



NOTES:

- 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:
- 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.
- 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.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 b) 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
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
 4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
 BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

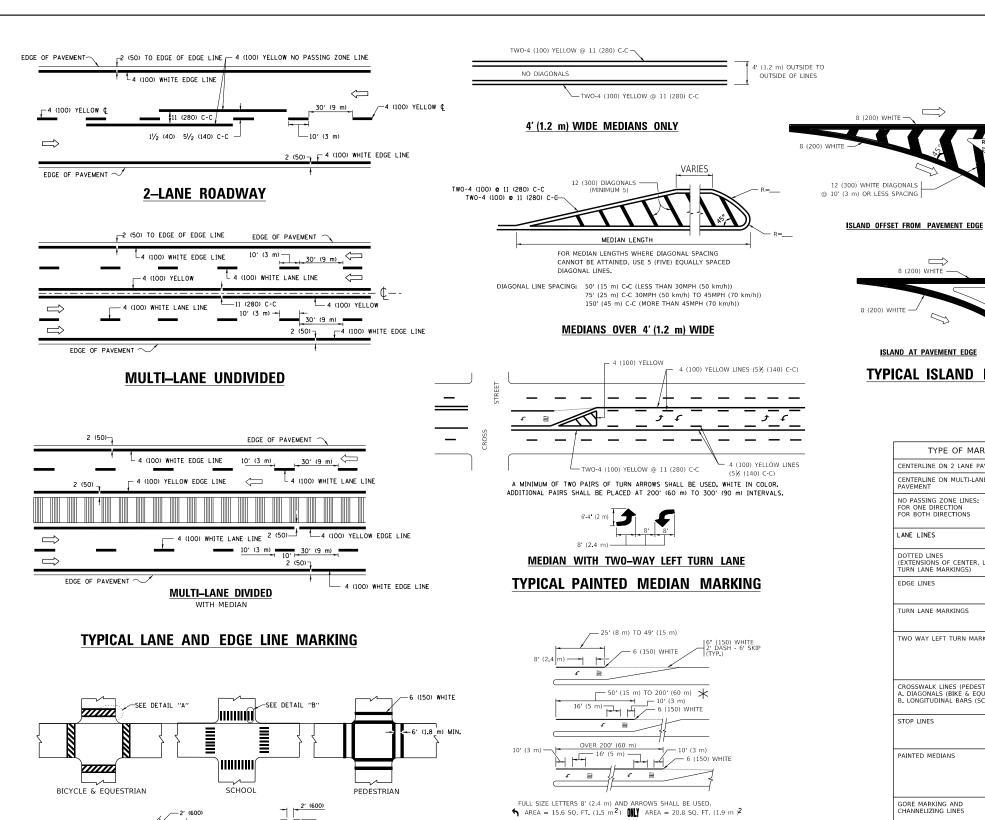
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED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

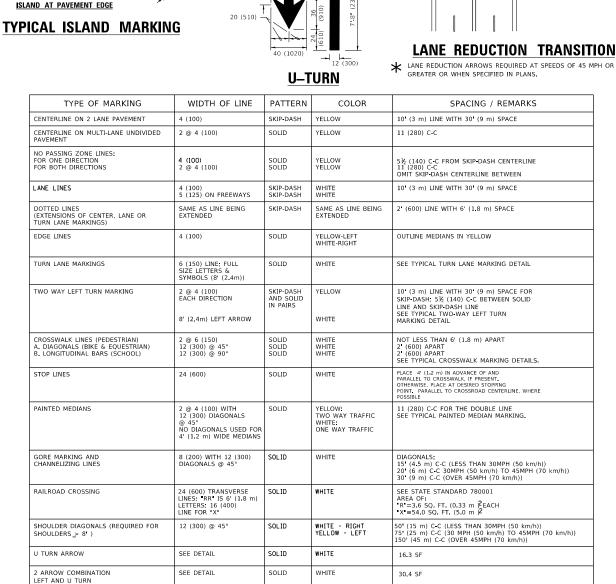
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = Josephm	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
	DRAWN -	REVISED	- T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
PLOT DATE = 10/25/2019	DATE - 06-89	REVISED	_ A. SCHUETZE 09-15-16

DE RO	ΑD	S, INTI	ERS	SECTION	S, AND	TION FOR DRIVEWAYS
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		TC-10	C	ONTRACT	NO. 6	2J4		
ı			TLUMOTO	550 4	ID DI	OUEST		





COMBINATION

LEFT AND U-TURN

32 R (810)

— 2 (50)

2 (50)

RAISED

ISLAND

8 (200) WHITE -

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.

D(FT)

665

SPEED LIMIT

50

55

USER NAME = Josephm	DESIGNED - EVERS	REVISED	-	C. JUCIUS 09-09-09
	DRAWN -	REVISED	-	C. JUCIUS 07-01-13
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	-	C. JUCIUS 12-21-15
PLOT DATE = 10/25/2019	DATE - 03-19-90	REVISED	-	C. JUCIUS 04-12-16

-12 (300) WHITE

DETAIL "B"

-6 (150) WHITE

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

DETAIL "A"

THE ROAD WHICH IT CROSSES

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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

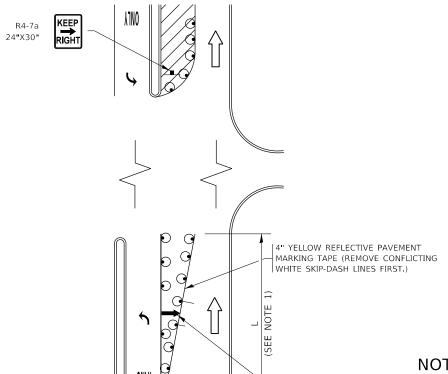
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

ARROW - "ONLY".

DISTRICT ONE TYPICAL PAVEMENT MARKINGS					O.R. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
					309A	2019-076-RS&SW	COOK	19	15	
TITICAL FAVLIVILIVI IVIANKIIVOS							TC-13	CONTRACT	NO. 6	2J48
	SHEET 1	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FED A	ID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



- ARROW BOARD

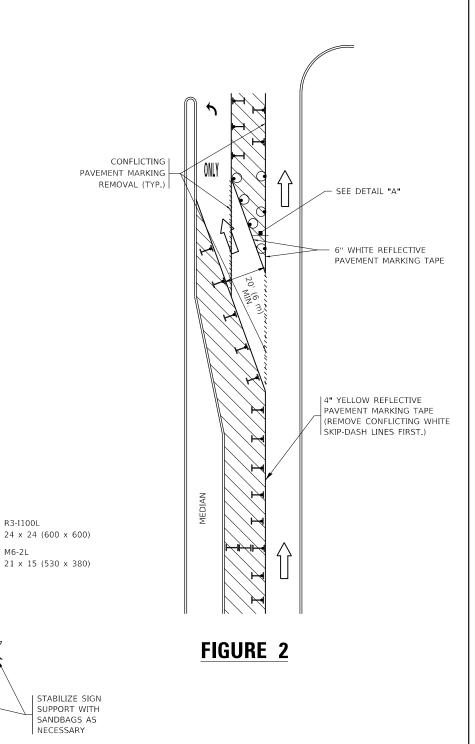
WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

LEGEND

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 x 15 (530 x 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 PREOUIREMENTS.
- 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

M6-2L

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

JSER NAME = Josephm DESIGNED -T. RAMMACHER 09-08-94 REVISED - R. BORO 09-14-09 DRAWN - A. HOUSEH 11-07-95 REVISED - A. SCHUETZE 07-01-13 A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16 DATE -T. RAMMACHER 01-06-00 REVISED PLOT DATE = 10/25/2019

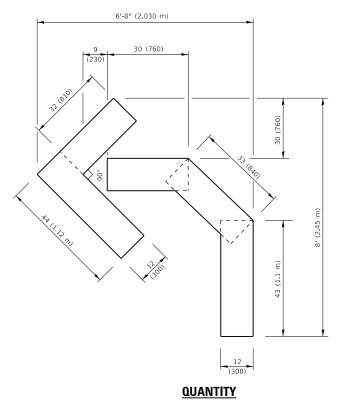
FIGURE 1

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

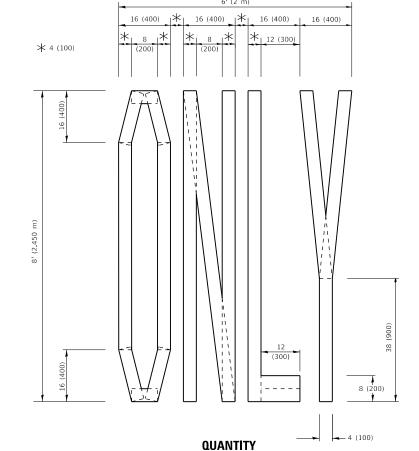
TRAF	O.R. RTE.	SECT	TION						
	309A	2019-076	-RS&SW						
		TC-14	1						
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.			ILLINOIS	FED. A

COOK 19 16 CONTRACT NO. 62J48

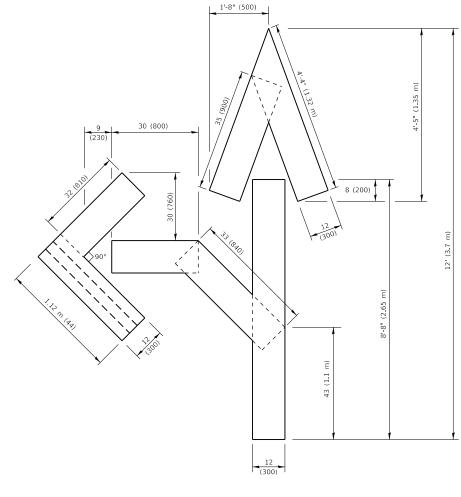
SEE DETAIL "A"



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)

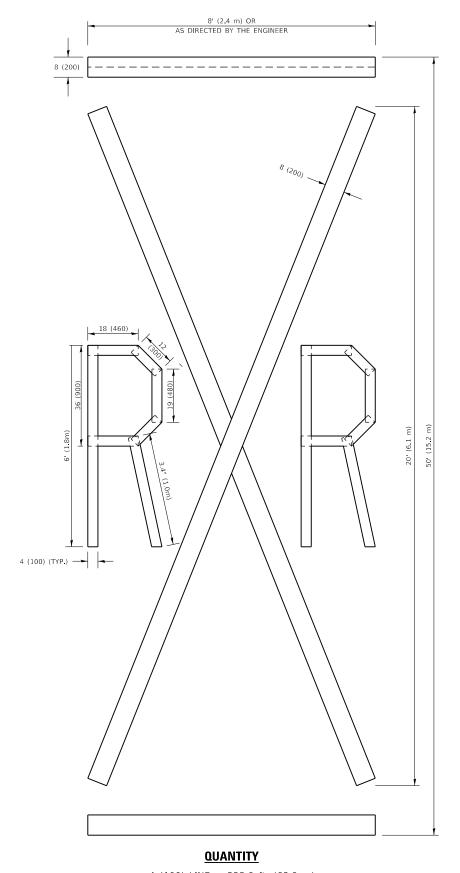


QUANTITY

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

NOTE:

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



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

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

21.4 sq. ft. (1.99 sq. m)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

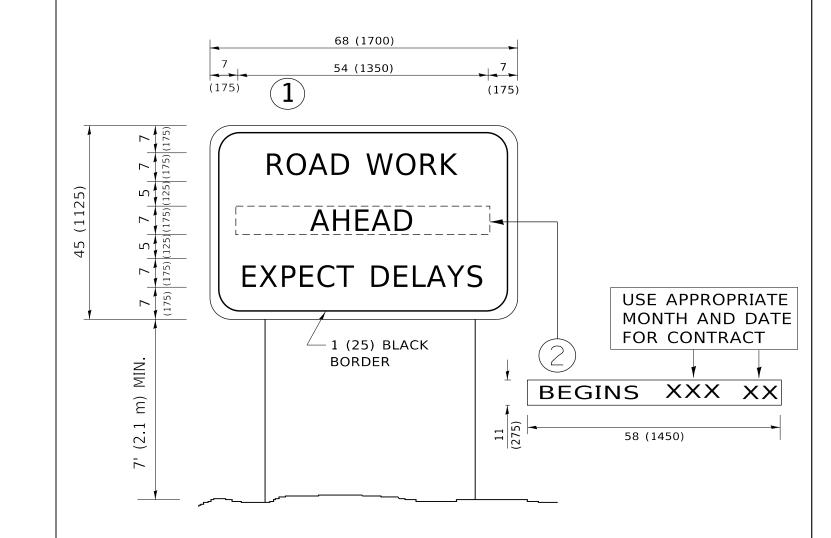
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

 O.R. R1E.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

 309A
 2019-076-RS&SW
 COOK
 19
 17

 TC-16
 CONTRACT NO.
 62J48



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.)

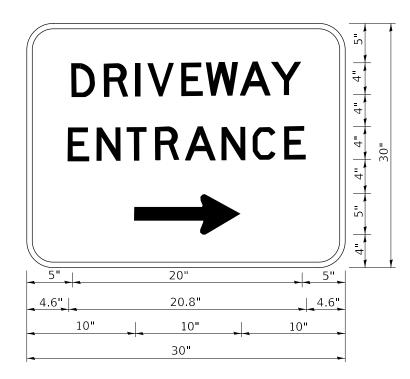
SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

USER NAME = Josephm	DESIGNED -	REVISED	-	R. MIRS 09-15-97
	DRAWN -	REVISED	-	R. MIRS 12-11-97
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED	- T.	RAMMACHER 02-02-9
PLOT DATE = 10/25/2019	DATE -	REVISED	_	C. JUCIUS 01-31-07

ARTERIAL ROAD							O.R. RTE.	SECTION	
	INFORMATION SIGN							309A	2019-076-RS
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	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLI



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".

 USER NAME
 = Josephm
 DESIGNED REVISED C. JUCIUS 02-15-07

 DRAWN REVISED

 PLOT SCALE
 = 100,0000 ' / in.
 CHECKED REVISED

 PLOT DATE
 = 10/25/2019
 DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

O.R. SECTION COUNTY TOTAL SHEETS NO.
309A 2019-076-RS&SW COOK 19 19

TC-26 CONTRACT NO. 62 J48

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.