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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

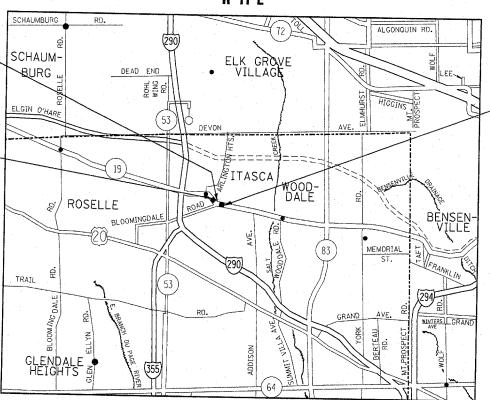
FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGE OF ITASCA

PROPOSED HIGHWAY PLANS

F.A.U. 1321: IL ROUTE 19 (IRVING PARK RD.)
SECTION: 31 RS-5
WALNUT STREET TO EMMERSON AVENUE
RESURFACING (3P)
DUPAGE COUNTY
C-91-061-06

R 11 E



IMPROVEMENT ENDS STATION 225 + 25

TRAFFIC DATA

2005 ADT = 21,400 POSTED SPEED LIMIT = 30-35 MPH

N A

MAP SCALE NOT TO SCALE

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

OMISSION:

STA 192+13 TO STA 211+50

IMPROVEMENT BEGINS

STATION 188 + 70

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.

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

CONTRACT NO. 60A48

ADDISON TOWNSHIP

GROSS LENGTH OF IMPROVEMENT = 3,655 LINEAL FEET = 0.69 MILE NET LENGTH OF IMPROVEMENT = 1,718 LINEAL FEET = 0.32 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCT Sher 22007

LOCATION OF SECTION INDICATED THUS: -

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 7 2007

Interior ENGINEER OF DESIGN AND ENVIRONMENT December 7 20 07.

Visiting M. Keed/K)
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

HANDOCK SCRIPTER

WARREN

WARR

SECTION 31 RS-5

D-91-061-06

DUPAGE 19

INDEX OF SHEETS

STATE STANDARDS

			STATE STANDARDS
	DESCRIPTION		
1	COVER SHEET	STANDARD NO.	DESCRIPTION
2	INDEX OF SHEETS, STATE STANDARDS, PLAN NOTES AND MIXTURE REQUIREMENTS	000001- <i>05</i>	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
3	SUMMARY OF QUANTITIES	442201 <i>-03</i>	CLASS C AND D PATCHES
4 - 5	TYPICAL SECTIONS	482011 - <i>03</i>	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
6 ~ 7	ROADWAY AND PAVEMENT MARKING PLANS	701301- <i>0</i> 2	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
. 8	DETECTOR LOOP REPLACEMENT PLANS	701311- <i>02</i>	LANE CLOSURE, 2L, 2W, MOVING DAY ONLY OPERATIONS
9	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	701501 <i>-04</i>	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
10	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	701701 -05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
11		701901	TRAFFIC CONTROL DEVICES
11	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT		
12	BUTT JOINT AND HMA TAPER DETAILS		
13	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECITONS, AND DRIVEWAYS		
14	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		
15	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		
16	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
17	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING		

PLAN NOTES

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

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

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

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEETS INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI AREA TRAFFIC FIELD ENGINEER AT (847) 741-9857 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO START OF WORK.

10 FEET (3 METERS) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OR WORK SPECIFIED.

SECTION

31 RS-5

COUNTY TOTAL SHEET NO.

DUPAGE 19 2

CONTRACT NO. 60A48

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM

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ARTERIAL ROAD INFORMATION SIGN

FOR ROADWAY RESURFACING

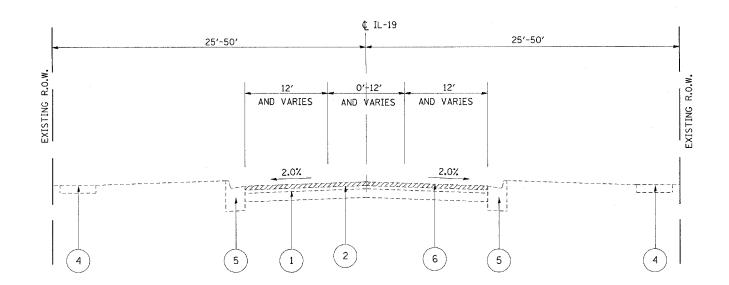
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DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS

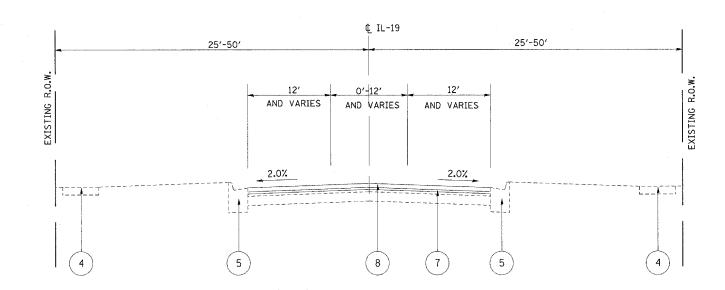
1	SUMMARY OF QUANTITIES		-			CONSTRUC	TION TYPE	CODE				SUMMARY OF QUANTITIES			:	CONSTR	UCTION TYPE	CODE	
CODE NO		UNIT	TOTAL QUANTITIES	URBAN IOOO 100% STATE							CODE NO	ITEM	TINU	TOTAL QUANTITIES	URBAN 1000 100% STATE				
20201006	GRADING AND SHAPING SHOULDERS	UNIT	19	19							70300100	SHORT-TERM PAVEMENT MARKING	FOOT	228	228				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	2					1		70300210	TEMPORARY PAVEMENT MARKING	SQ FT	76	76				
40600300	AGGREGATE (PRIME COAT)	TON	14	14								- LETTERS AND SYMBOLS							
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2							70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	F00T	4032	4032				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1							70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	342	342				-
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	488	488							70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48	48				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	85	85							70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	76	76				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	602	602		and the state of t				*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	76	76				
42001300	PROTECTIVE COAT	SQ YD	37	37						*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4032	4032				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SQ FT	143	143						*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	342	342				
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2	SQ YD	6200	6200						*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	48	48				
44000600	SIDEWALK REMOVAL	SQ FT	143	143						*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	53	53				· ·
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	F00T	95	95		-					78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	53	53				
44002232	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 8"	SQ YD	185	185						*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	27	27				
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	50	50							X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51. 4	51.4				i
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	80	80							X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	301	301				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	10	10							Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	35	35						-									:
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	77	77															
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	3															
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	9	9															
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO																	
67100100	MOBILIZATION	L SUM	1	1															
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1												in the Market Annaber (A)	t deren som her her her hand her som hand he	ta distribution of the control of th	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1 ,															
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* SPECIALTY ITEMS

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES



EXISTING TYPICAL SECTION STA. 188+70 TO STA. 195+80



PROPOSED TYPICAL SECTION
STA. 188+70 TO STA. 195+80

LEGEND

- (1) EXISTING PCC BASE COURSE, 10" +/-
- (2) EXISTING HOT MIX ASPHALT SURFACE, 8" +/-
- (3) EXISTING HOT MIX ASPHALT OR AGGREGATE SHOULDER
- (4) EXISTING SIDEWALK
- (5) EXISTING B-6.24 CURB AND GUTTER
- 6 PROPOSED HOT MIX ASPHALT SURFACE REMOVAL, 21/4"
- 7 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (3/4")
- 8 PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70 1 1/2"
- 9 PROPOSED GRADING AND SHAPING SHOULDERS
- PROPOSED AGGREGATE WEDGE SHOULDER TYPE B

HOT-MIX ASPHALT MIXTU	RE REQUIREMENTS	
MIXTURE TYPE	AC TYPE	AIR VOIDS(%)
PAVEMENT RESURFACING (MAINLINE)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5MM)	PG 64-22	4% @ 70 GYF
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYI
PATCHING		
CLASS D PATCHES TYPE I- IV, 10", HMA BINDER IL-19 MM	PG 64-22 *	4% @ 70 GYF
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	PG 64-22 *	4% @ 70 GYF

* WHEN RAP EXEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58–22. NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTATIES IS 112 LBSSQ YD/IN.

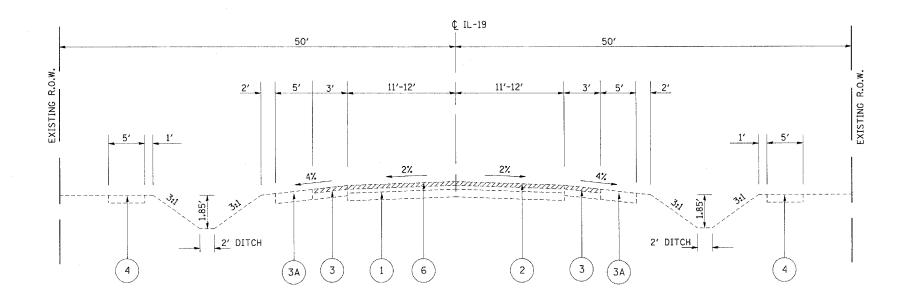
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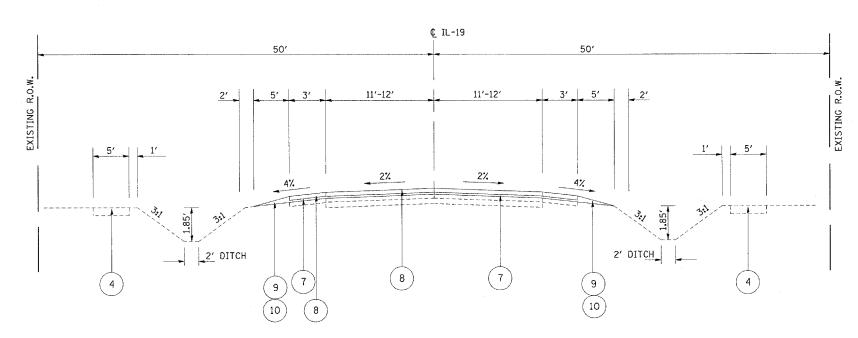
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DUPAGE 19

CONTRACT NO. 60A



EXISTING TYPICAL SECTION STA. 211+50 TO STA. 225+25



PROPOSED TYPICAL SECTION STA. 211+50 TO STA. 225+25

LEGEND

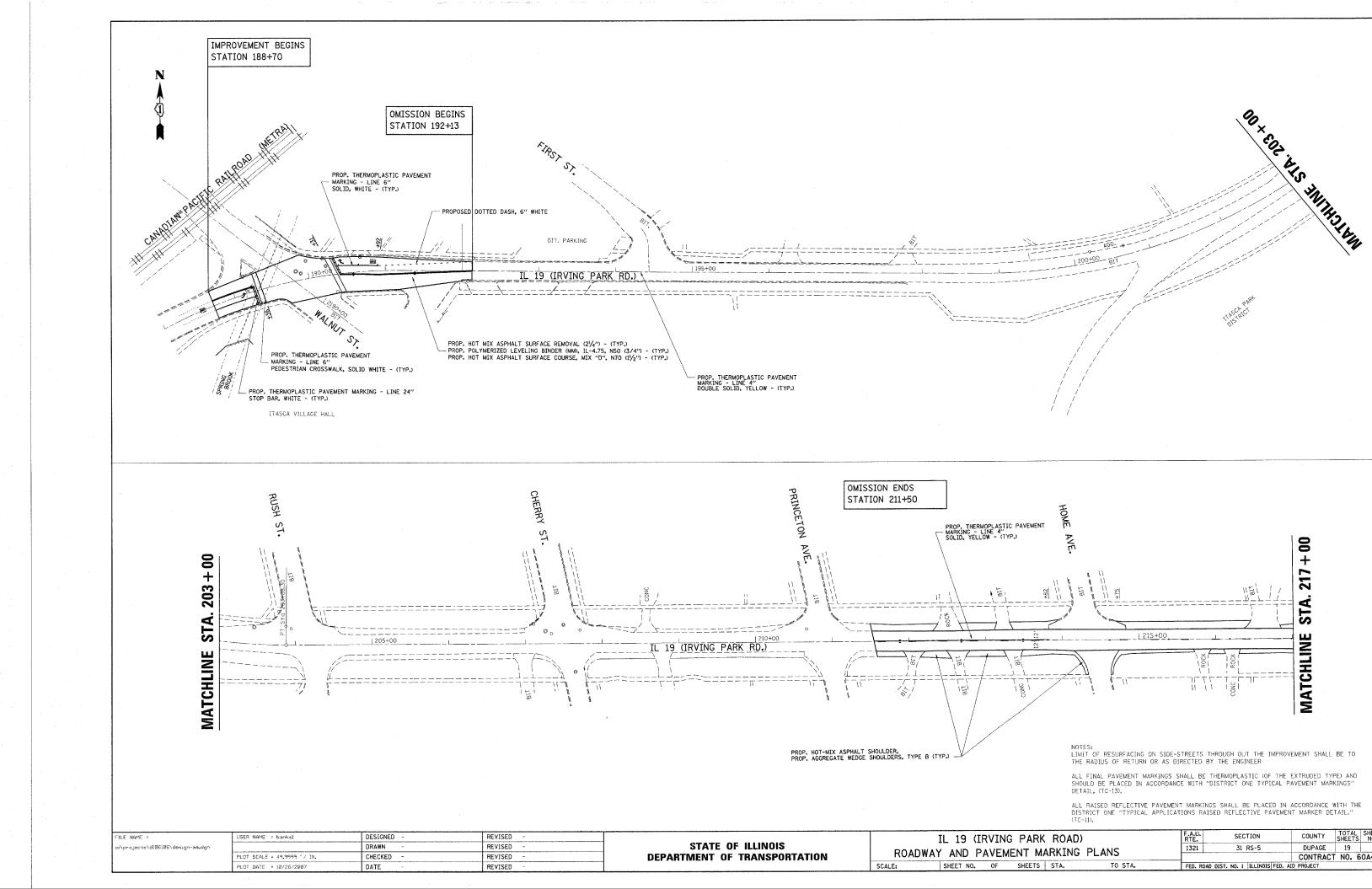
- EXISTING PCC BASE COURSE, 10" +/-
- EXISTING HOT MIX ASPHALT SURFACE, 8" +/-(2)
- (3) **EXISTING HOT MIX ASPHALT SHOULDER**
- (3A) **EXISTING AGGREGATE SHOULDER**
- (4) EXISTING SIDEWALK
- (5) EXISTING B-6.24 CURB AND GUTTER
- PROPOSED HOT MIX ASPHALT SURFACE REMOVAL, 21/4"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), **(7**) IL-4.75, N50 (3/4")
- (8 PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70 1 1/2"
- (9) PROPOSED GRADING AND SHAPING SHOULDERS
- (10) PROPOSED AGGREGATE WEDGE SHOULDER TYPE B

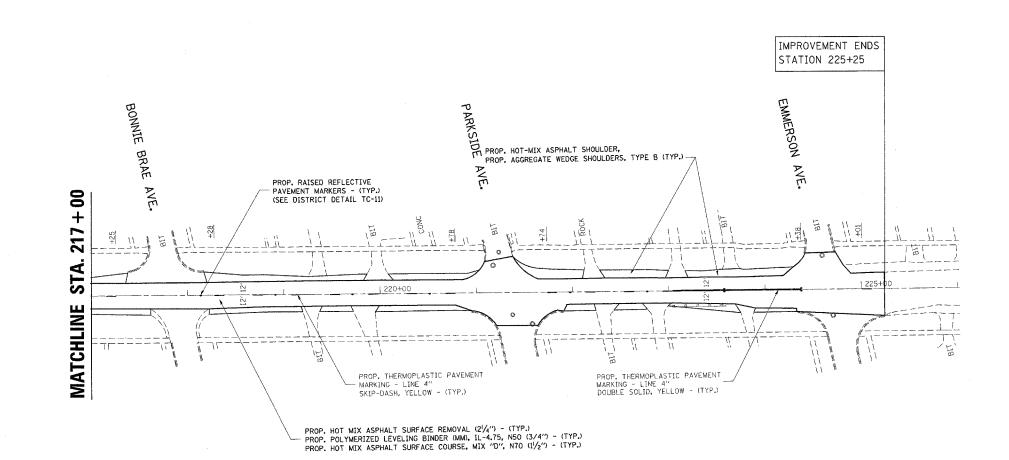
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DEPARTMENT OF	TRANSPORTATION

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EXISTING A	AND PROPOSE	D TYPICAL	CROSS SECTIONS			CONTRACT	NO. 6	SOA
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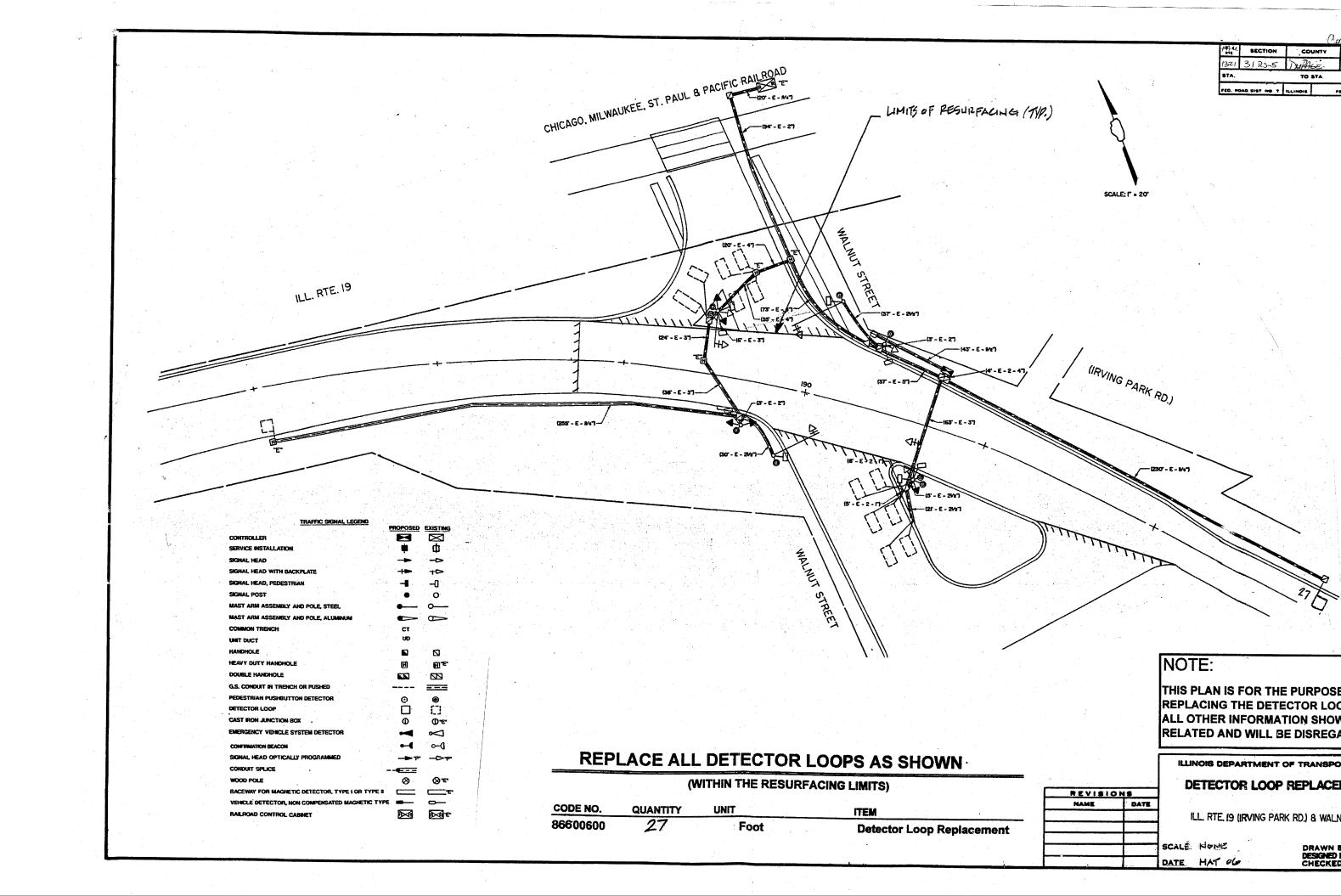


NOTES: LIMIT OF RESURFACING ON SIDE-STREETS THROUGH OUT THE IMPROVEMENT SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER

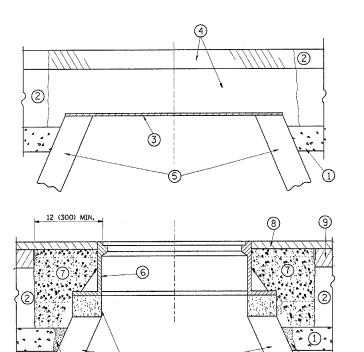
ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL. (TC-13).

ALL RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL." (TC-11).

COUNTY TOTAL SI SHEETS DUPAGE 19 DESIGNED REVISED SECTION FILE NAME = USER NAME = banksl IL 19 (IRVING PARK ROAD) STATE OF ILLINOIS o;\projects\d106106\design-aa.dgn DRAWN REVISED 1321 31 RS-5 ROADWAY AND PAVEMENT MARKING PLANS PLOT SCALE = 49,9999 '/ IN. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60 SHEET NO. OF SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT DATE REVISED PLOT DATE = 10/26/2007



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FED. RO	AD DIST. NO. 1	ILLINOIS	FED.	AID	PROJE



PROPOSED

PROPOSED

SAND FILL

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE 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 PAYEMENT 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.

NOTES:

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

#### 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  $1^{1}\!\!/_{2}$  (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

#### STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

#### LEGEND

SUB-BASE GRANULAR MATERIAL

PROPOSED SAND FILL

- 2 EXISTING PAVEMENT
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 5 EXISTING STRUCTURE
- (6) FRAME AND LID (SEE NOTES)
- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 8 PROPOSED HMA SURFACE COURSE
- 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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

## DETAILS FOR FRAMES AND LIDS ADJUSTMENT

# WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

		THERMISE SHOWN
REVISION	NS .	ILLINOIS DEPARTMENT OF TRANSPORTATION
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SHAH	01/30/95	DETAILS FOR
SHAH	03/10/95	FRAMES AND LIDS ADJUSTME
ABBAS	03/21/97	
WIEDEMAN	05/14/04	WITH MILLING
BORO	01/01/07	

SCALE: VERT. NONE

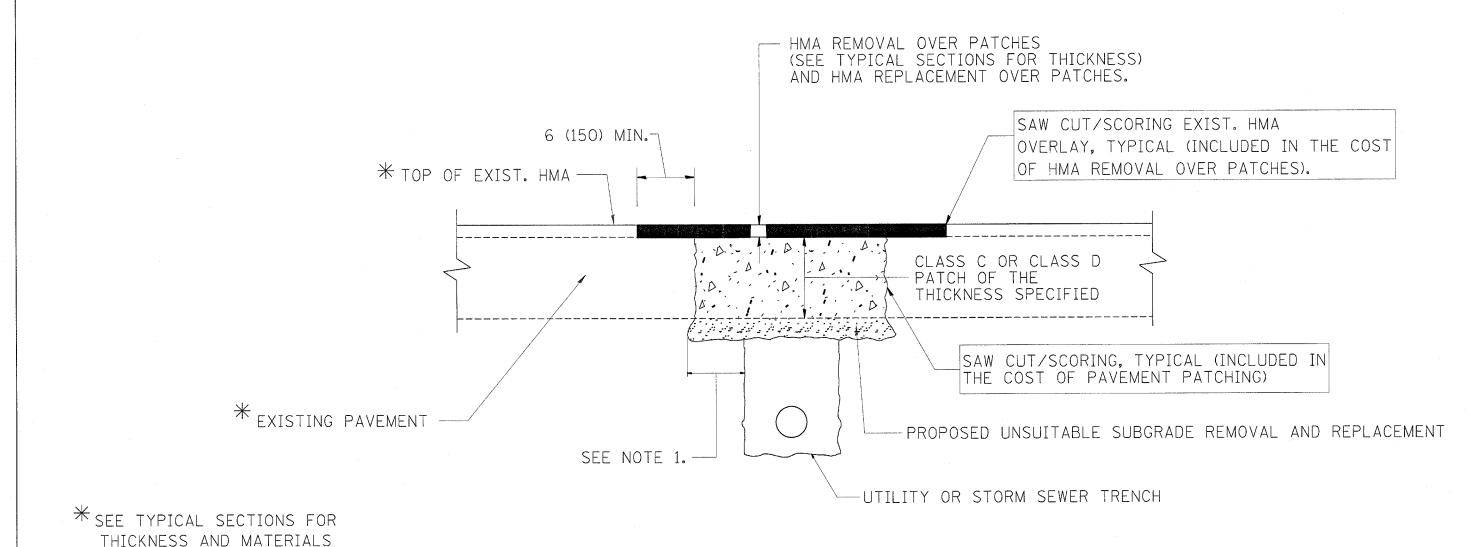
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R. R. A. R.

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NAME = Wixdistatd/bd08.cSCALE = 52,9411 / IN.





#### 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

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE FULL DEPTH PATCHES
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

		OTH	HERWISE SHOWN.		
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	NAME	DATE	TELINOIS DEFAITMENT OF TRANSPORTAT		
	R. SHAH	10/25/94			
	R. SHAH	01/14/95			
	R. SHAH	03/23/95	PAVEMENT PATCHING FOR		
	R. SHAH	04/24/95	HMA SURFACED		
	A. HOUSEH	03/15/96			
	A. ABBAS	03/21/97	PAVEMENT		

SCALE: VERT. NONE

BD400-04 (BD

1321 3178-5 STA. VARIABLE - TO MEET EXISTING FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJEC DIMENSIONS AND FIELD CONDITIONS (SEE NOTE (2)) PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE 2) SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL SEE STATE STANDARD 606001 18" (450) MAX. EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE) 1/4" (5) * EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND. PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE 1). EXISTING CONCRETE PAVEMENT. CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT SUITABLE BACKFILL MATERIAL - 3" (75) MIN. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT) * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE. PROPOSED 34" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.) WITH THE PAVEMENT. NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY BEING REMOVED AND WILL BE PAID FOR SEPARATELY. THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE. SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. 2 CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED. REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. 3 FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS. PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT (4) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. BY THE ENGINEER. (SEE NOTE 3). (5) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT. BASIS OF PAYMENT: (6) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT". BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS. THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

PLOT FILE USER

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

REVISIO	NS	
NAME	DATE	
A. HOUSEH	03/11/94	
R. SHAH	02/24/95	
R. SHAH	03/02/95	
R. SHAH	08/19/96	
R. SHAH	09/12/96	
R. SHAH	09/19/96	
R. SHAH	10/03/96	
A. ABBAS	03/21/97	
M. GOMEZ	01/22/01	sc
R. BORO	01/01/07	30

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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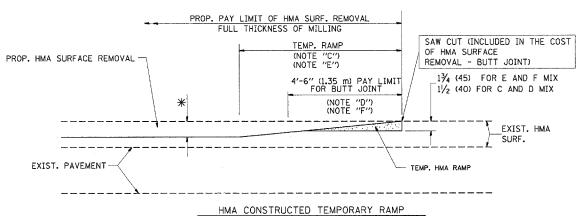
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SECTION

BD600-06 (BD

PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING TEMP. RAMP (NOTE "C") (NOTE "E") PROP. HMA SURFACE REMOVAL EXIST. PAVEMENT MILLED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

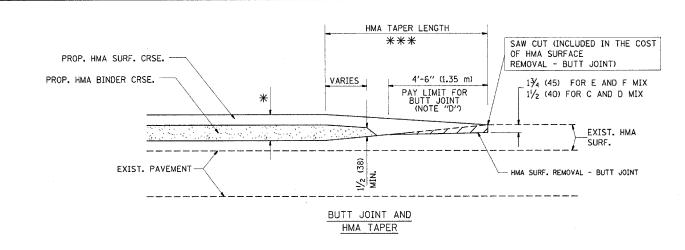
# OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

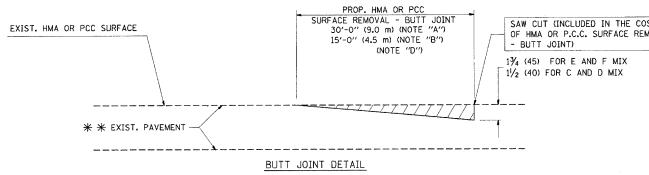
# OPTION 2

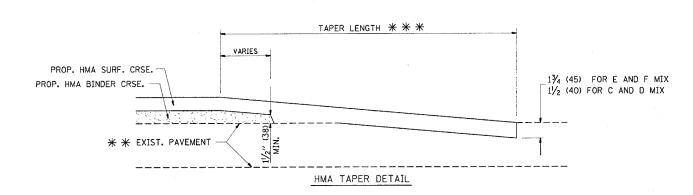
# TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

1321 31 RS-5 DUPAGE 19 TO STA. STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJEC





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

** * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B") ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

#### 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".

REVISIONS		
NAME	DATE	
M. DE YONG	6-13-90	
M. DE YONG	7-3-90	
M. DE YONG	3-27-92	
R. SHAH	09/09/94	
R. SHAH	10/25/94	
A. ABBAS	03/21/97	
M. GOMEZ	04/06/01	
R. BORO	01/01/07	SC
		50

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

CALE: VERT. NONE

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CONTRACT NO.

COUNTY

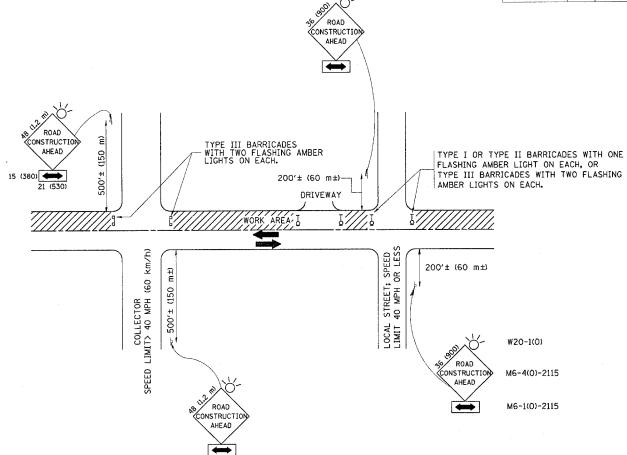
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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

## NOTES:

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

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

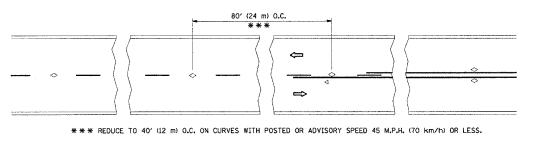
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

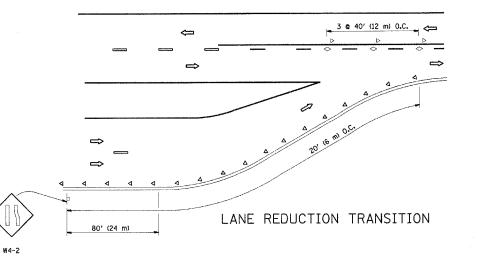
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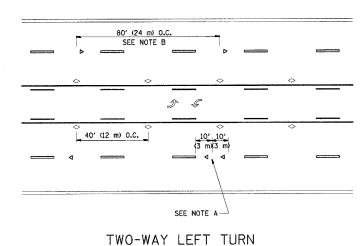
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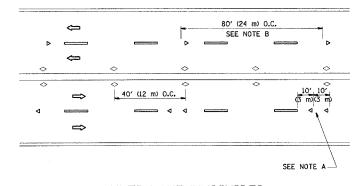


TWO-LANE/TWO-WAY

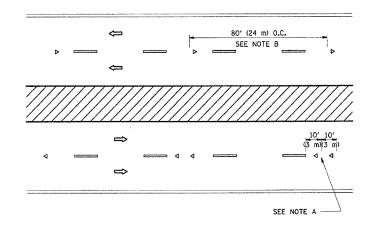




THE HAT LET TOTAL



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.
- MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

#### LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

#### SYMBOLS

---- YELLOW STRIPE

WHITE STRIPE

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

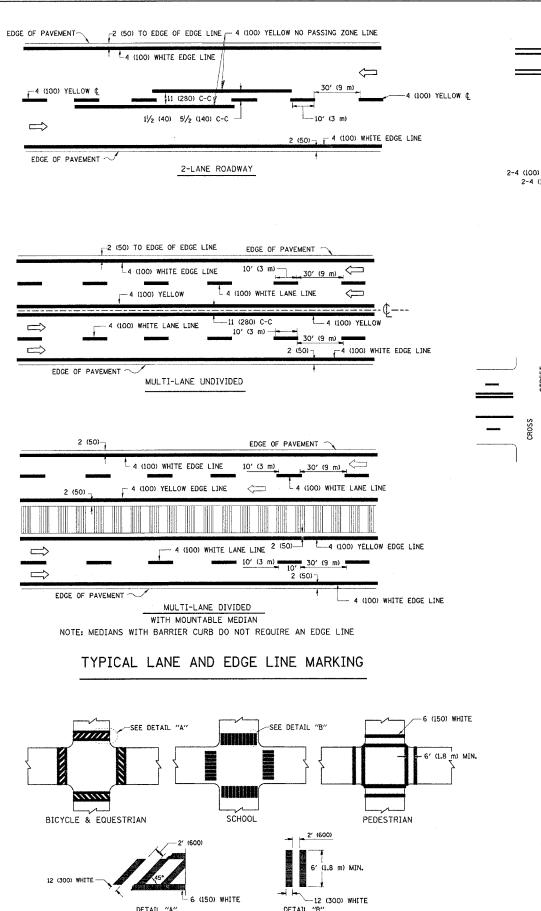
#### DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 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 SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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

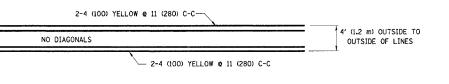
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T. RAMMACHER	03-12-99	TYPICAL APPLICATIONS
T. RAMMACHER	01-06-00	RAISED REFLECTIVE PAVEMENT
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TYPICAL CROSSWALK MARKING

DATE NAME SCALE NAME



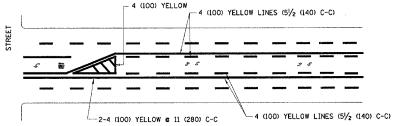
VARIES 12 (300) DIAGONALS 2-4 (100) e 11 (280) C-C (MINIMUM 5) 2-4 (100) @ 11 (280) C-C FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED

DIAGONAL LINES.

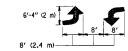
4' (1.2 m) WIDE MEDIANS ONLY

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

#### MEDIANS OVER 4' (1.2 m) WIDE

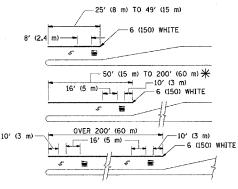


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

# TYPICAL PAINTED MEDIAN MARKING

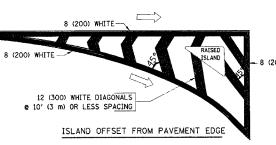


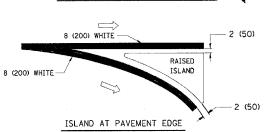
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SQ. FT. (1.5 m² )  $\P \P \P$  AREA = 20.8 SQ. FT. (1.9 m²)

* 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





# TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 (280) C-C ·
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLÎD	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 & 6 (150) 12 (300) & 45° 12 (300) & 90°	SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4" (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, 1F PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 & 4 (100) WITH 12 (300) DIAGONALS 0 45°	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R""-3.6 SQ. FT. (0.33 m ² ) EACH "X"=54.0 SQ. FT. (5.0 m ² )
SHOULDER DIAGONALS	12 (300) <b>e</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 k 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

All dimensions are in inches (millimeters) unless otherwise shown. ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS		
NAME	DATE	
EVERS	03-19-90	
T. RAMMACHER	10-27-94	
ALEX HOUSEH	10-09-96	
ALEX HOUSEH	10-17-96	
T. RAMMACHER	01-06-00	
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DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD CHECKED BY

CONTRACT NO.

COUNTY 31785-5 DUPAGE 19

TO STA.

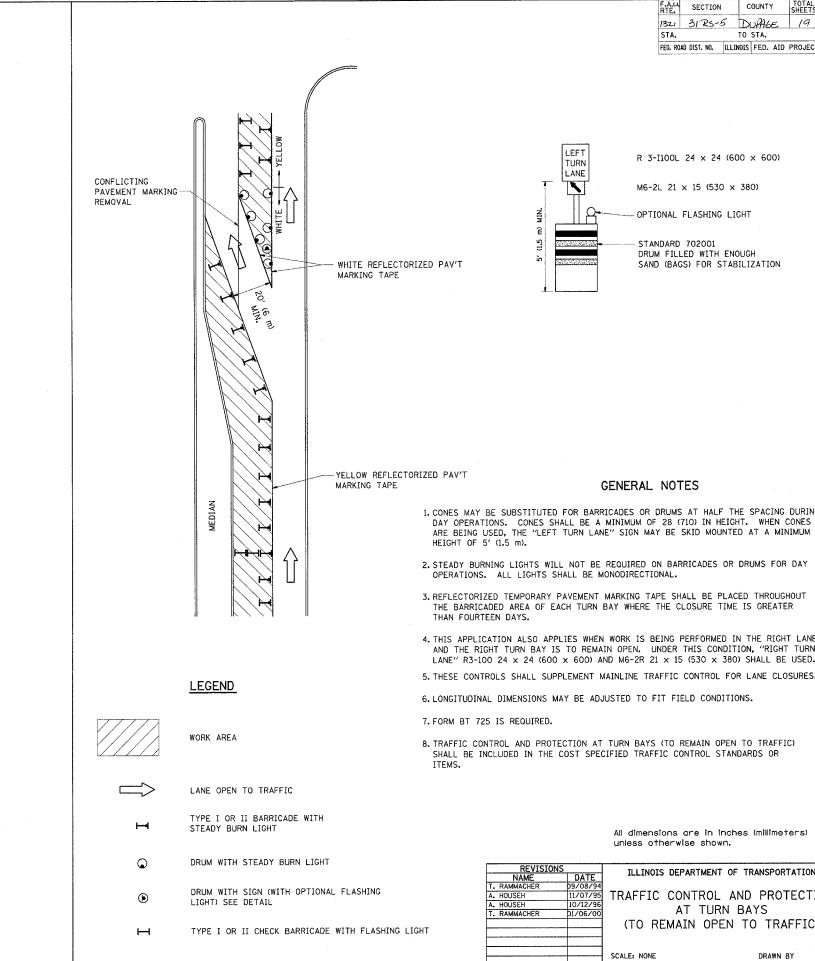
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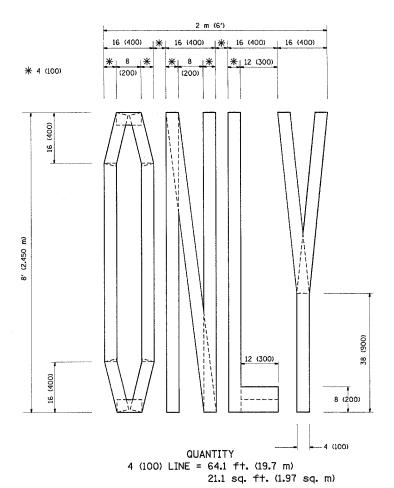
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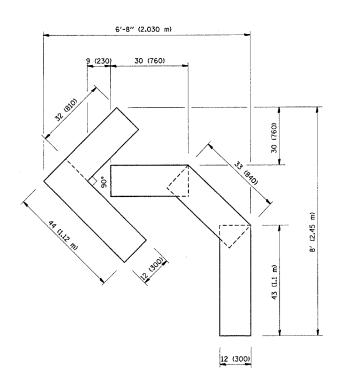
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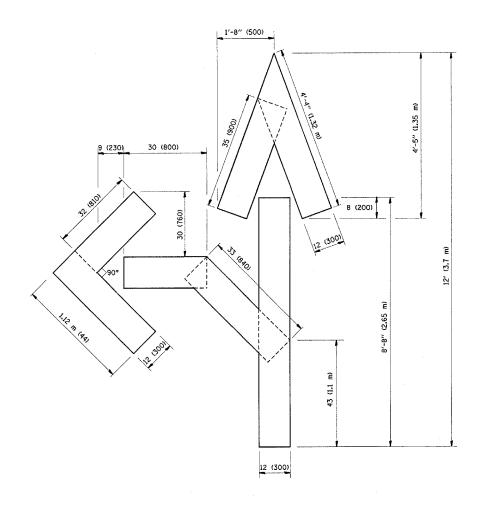




PLOT FILE I PLOT USER



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



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

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

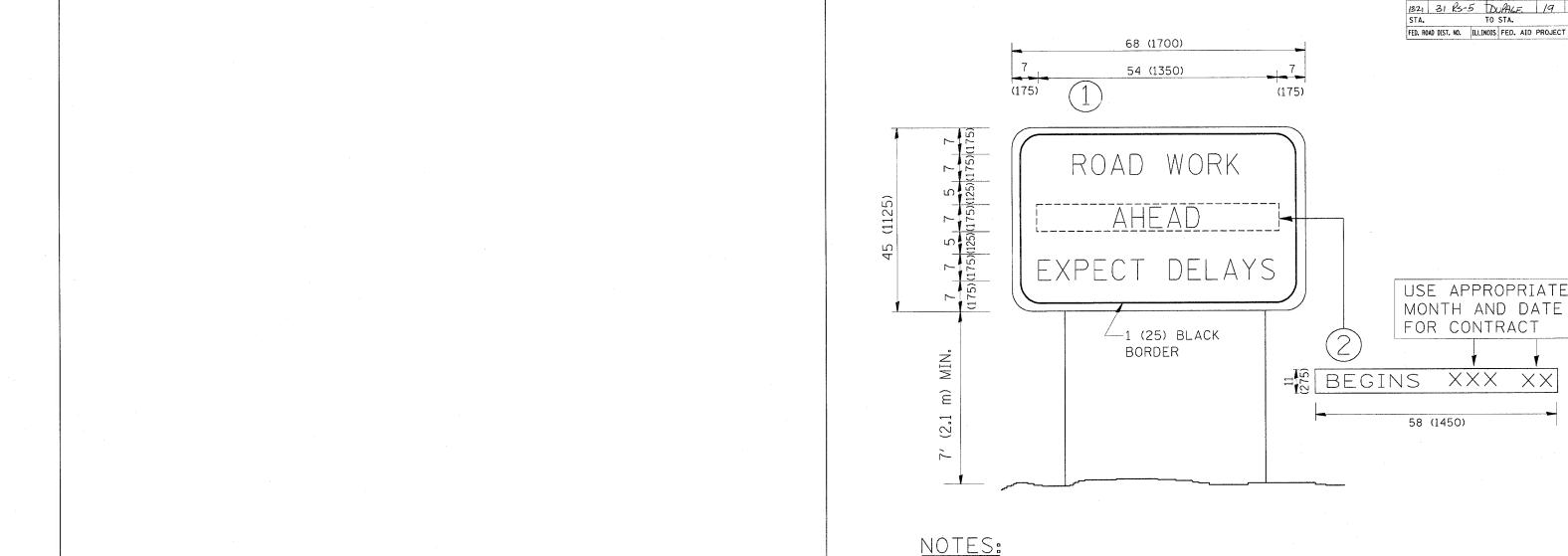
NAME	DATE
T. RAMMACHER	09/18/9
J. OBERLE	06/01/9
T. RAMMACHER	06/05/9
T. RAMMACHER	11/04/9
T. RAMMACHER	03/02/9
E. GOMEZ	08/28/0

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD



- 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.

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

| REVISIONS | NAME | DATE | R. MIRS | 9-15-97 | R. MIRS | 12-11-97 | T. RAMMACHER | 2-2-99 | C. JUCIUS | 1-31-07 |

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

CALE: NONE

DRAWN BY DESI CHECKED BY

CONTRACT NO.

COUNTY

RTE. SECTION

| DATE = 18/25/2887 | NAME = W:\diststd\tc22.dg | SCALE = 52.941 / IN. | NAME = backs|

# LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. IPAVED OR NON-PAVED SHOULDER (900 MIN. (1.5 m) (1.8 m) (1.5 m) * 1" (25 mm) UNIT DUCT-TRENCHED TO E/P ** (3.0 m) (3.0 m)

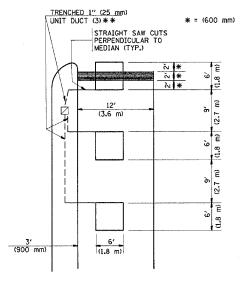
> * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

* = (600 mm)

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

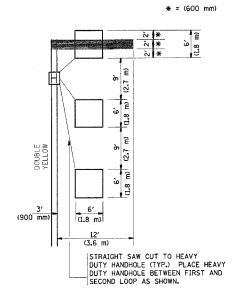
HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

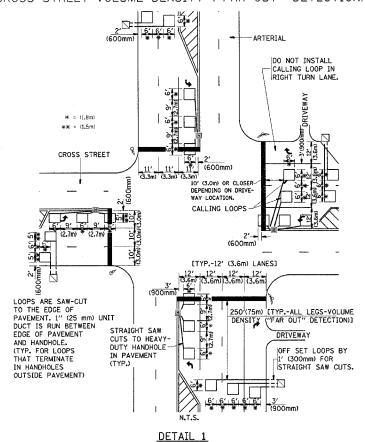
LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

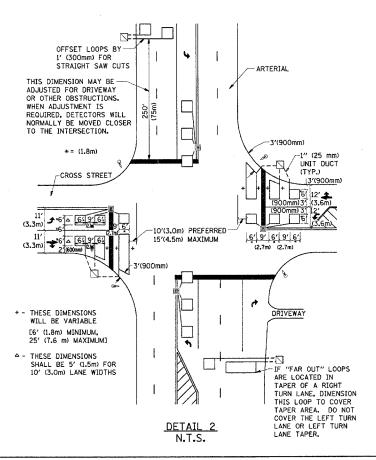


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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



#### NOTES:

#### VEHICLES LOOP DETECTORS

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

CONTRACT NO.

19

COUNTY

TO STA.

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

SECTION

STA.

1321 31RS-5 DUFAGE

- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UDUCT 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 PAI FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET
- * 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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> 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 I HITHIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCT 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 FO 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 RIGH 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 A 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

#### NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DISTRICT 1
		DETECTOR LOOP
		INSTALLATION DETAILS
		FOR ROADWAY RESURFACING
		DESIGNED BY
		SCALE: NONE DRAWN BY CADD
		CHECKED BY R.K.