

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	1
ILLINOIS CONTRACT NO. 62C55				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE CITY OF CHICAGO HEIGHTS

TRAFFIC DATA:

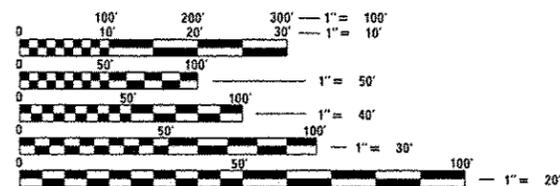
JOE ORR ROAD:  
2014 ADT = 14,800  
SPEED LIMIT = 40 MPH

PROPOSED  
HIGHWAY PLANS

FAU ROUTE 1631 : JOE ORR ROAD  
FROM ASHLAND AVENUE TO STATE STREET  
SECTION 0404.1-RS  
PROJECT STP-1631(003)  
RESURFACING, HMA OVERLAY, ADA  
PEDESTRIAN RAMP RETROFIT  
COOK COUNTY

C-91-362-16

R 14 E

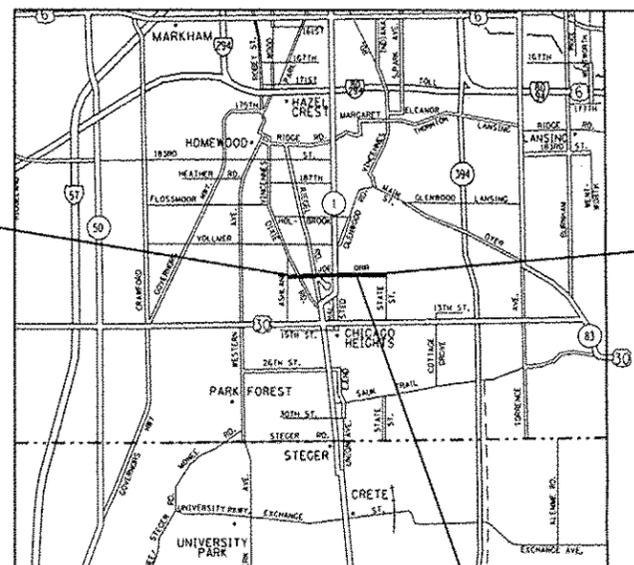


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT START  
STA 19+29.90

T 35 N



PROJECT END  
STA 126+73.76

OMISSION:  
STA 100+34  
STA 101+85

GROSS LENGTH = 10,744 FT. = 2.035 MILE  
NET LENGTH = 10,593 FT. = 2.006 MILE

PROJECT ENGINEER JENPAI CHANG (847)705-4432  
PROJECT MANAGER FAWAD AQUEEL (847)705-4247

CONTRACT NO. 62C55

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED *April 3 2017*  
*Andrew G. [Signature]* REGIONAL ENGINEER

*May 12 2017*  
*Harmon M. Addis P.E.* ENGINEER OF DESIGN AND ENVIRONMENT

*May 12 2017*  
*[Signature]* DIRECTOR OF PROGRAM DEVELOPMENT 2

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OF THE STATE OF ILLINOIS



URBAN

URBAN

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 80 ST 20 0005					
20200100	EARTH EXCAVATION	CU YD	65	65					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	491	491					
25000310	SEEDING, CLASS 4	ACRE	0.4	0.4					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6	6					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	6	6					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6	6					
25100630	EROSION CONTROL BLANKET	SO YD	1694	1694					
25200110	SODDING, SALT TOLERANT	SO YD	491	491					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	52375	52375					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	116	116					
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	3201	3201					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	561	561					
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	809	809					

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 80 ST 20 0005					
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	7604	7604					
42001300	PROTECTIVE COAT	SO YD	1186	1186					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	6450	6450					
42400800	DETECTABLE WARNINGS	SO FT	645	645					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	44961	44961					
44000600	SIDEWALK REMOVAL	SO FT	6450	6450					
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SO FT	15900	15900					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	900	900					
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	400	400					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	1600	1600					
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1					
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	42	42					
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	1	1					
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	4	4				* SPECIALTY ITEM	

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
Or Files\District\Projects\ND\36216\CADD\Design\36216\04\000.dgn	laddm		
PLOT SCALE :	CHECKED :	REVISOR :	REVISION :
1/8" = 1'-0"			
PLOT DATE :	DATE :		
4/6/2017			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**JOE ORR RD FROM ASHLAND AVE TO STATE ST  
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C55	

SCALE: SHEET NO. OF SHEETS STA. TO STA.

SUMMARY OF QUANTITIES			URBAN					CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 80 ST 20 0005								
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	65	65								
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1								
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2								
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MD	6	6								
67100100	MOBILIZATION	LSUM	1	1								
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	1								
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	LSUM	1	1								
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	LSUM	1	1								
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1								
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1								
70300100	SHORT TERM PAVEMENT MARKING	FOOT	12417	12417								
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	2213	2213								
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	661	661								

SUMMARY OF QUANTITIES			URBAN					CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 80 ST 20 0005								
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	27029	27029								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2951	2951								
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	480	480								
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1669	1669								
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1115	1115								
70300520	PAVEMENT MARKING TAPE, TYPE 111 4"	FOOT	6209	6209								
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	661	661								
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	27029	27029								
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2951	2951								
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	480	480								
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1669	1669								
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1115	1115								
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	950	950							* SPECIALTY ITEM	



# LEGEND

- ① EXIST. HMA OVERLAY, 2½"
- ② EXIST. PCC BASE COURSE, 10"
- ③ EXIST. PCC COMB. CURB & GUTTER, B.6-24
- ④ EXIST. CORRUGATED MEDIAN, PREVIOUSLY MILLED FLUSH
- ⑤ EXIST. CORRUGATED MEDIAN
- ⑥ EXIST. PCC PAVEMENT, 10"
- ⑦ EXIST. SOLID BARRIER MEDIAN
- ⑧ EXIST. PCC COMB. CURB & GUTTER, M2.-12
- ⑨ EXIST. PCC SIDEWALK, 5"
- ⑩ PROP. HMA SURF. REMOVAL, 2½"
- ⑪ PROP. PCC SURFACE REMOVAL, VAR DEPTH
- ⑫ PROP. POLY. HMA SURF. CSE. MIX "E", N70, 1¾"
- ⑬ PROP. POLY. LEVELING BINDER (MM) IL-4.75, N50, ¾"
- ⑭ MEDIAN REMOVAL PARTIAL DEPTH, 2"±, MILL FLUSH WITH ADJACENT PAVEMENT (CORR. MEDIAN ONLY)

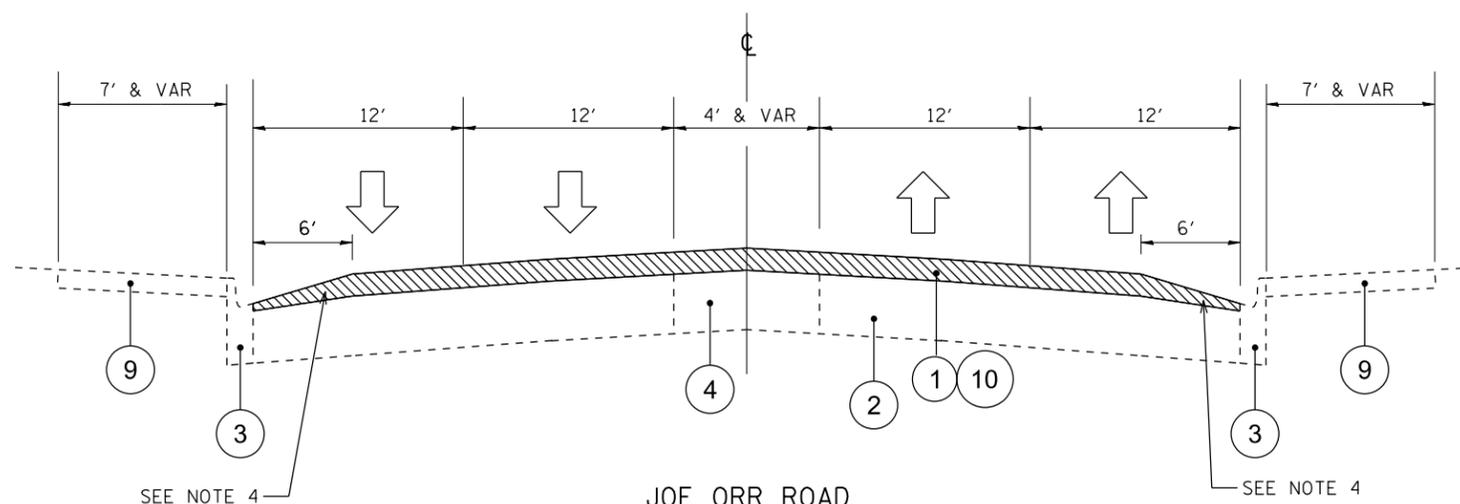
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS (%) @ NDES	
RESURFACING:		
POLY. HMA SURFACE COURSE MIX "E", N70, 1¾" (IL-9.5mm)	4% @ 70 GYR.	OCP
POLY. LEVELING BINDER (MM) IL-4.75, N50, ¾"	3.5% @ 50 GYR.	OCP
HOT-MIX ASPHALT OVERLAY:		
POLY. HMA SURFACE COURSE MIX "E", N70, 1¾" (IL-9.5mm)	4% @ 70 GYR.	OCP
POLY. LEVELING BINDER (MM) IL-4.75, N50, ¾"	3.5% @ 50 GYR.	OCP
HOT-MIX ASPHALT PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/OA
QMP DESIGNATION QUALITY CONTROL/QUALITY ASSURANCE (QC/OA) QUALITY CONTROL FOR PERFORMANCE (QCP)		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 POUND PER SQUARE YARD-INCH

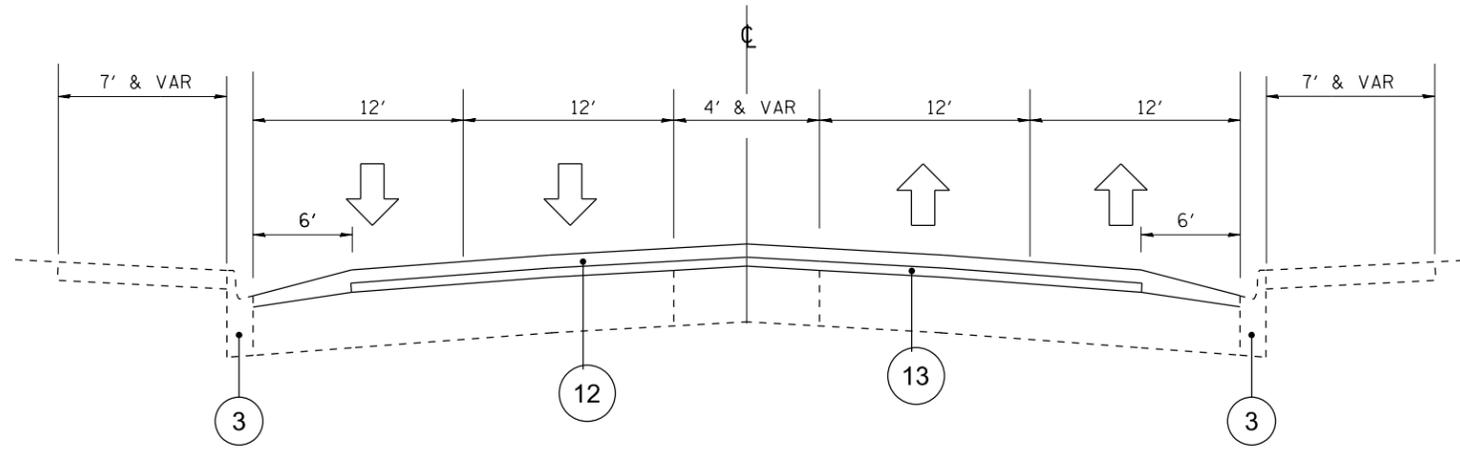
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS / SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

"FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS".

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



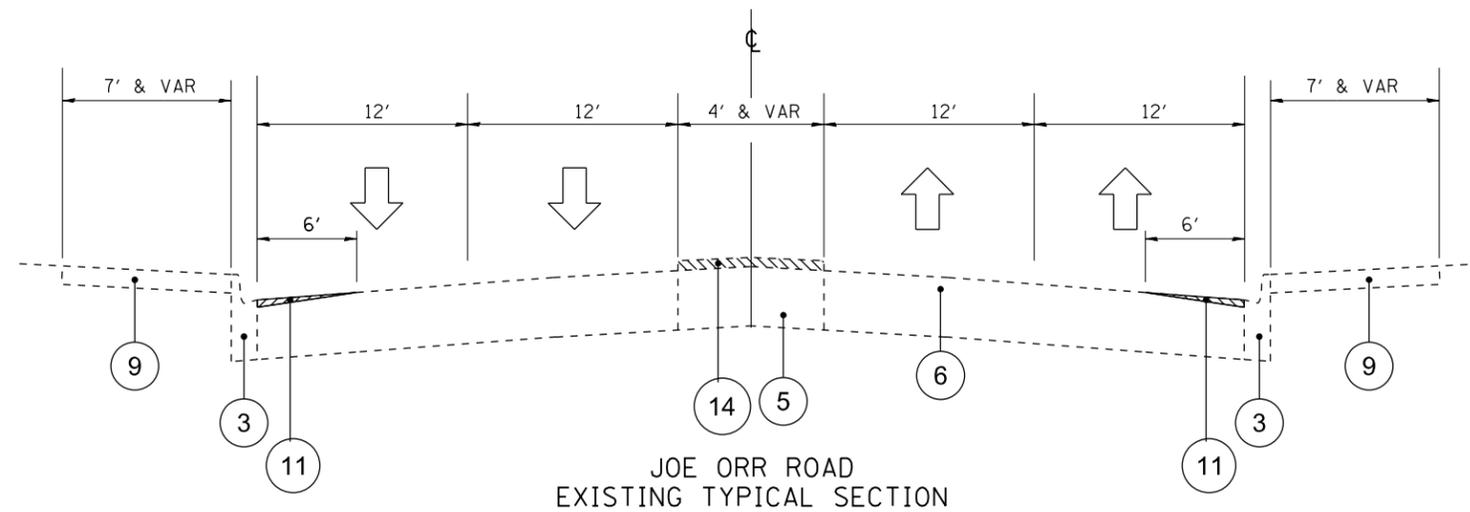
JOE ORR ROAD  
EXISTING TYPICAL SECTION  
STA 19+29.9 TO STA 73+80.8



JOE ORR ROAD  
PROPOSED TYPICAL SECTION  
STA 19+29.9 TO STA 73+80.8

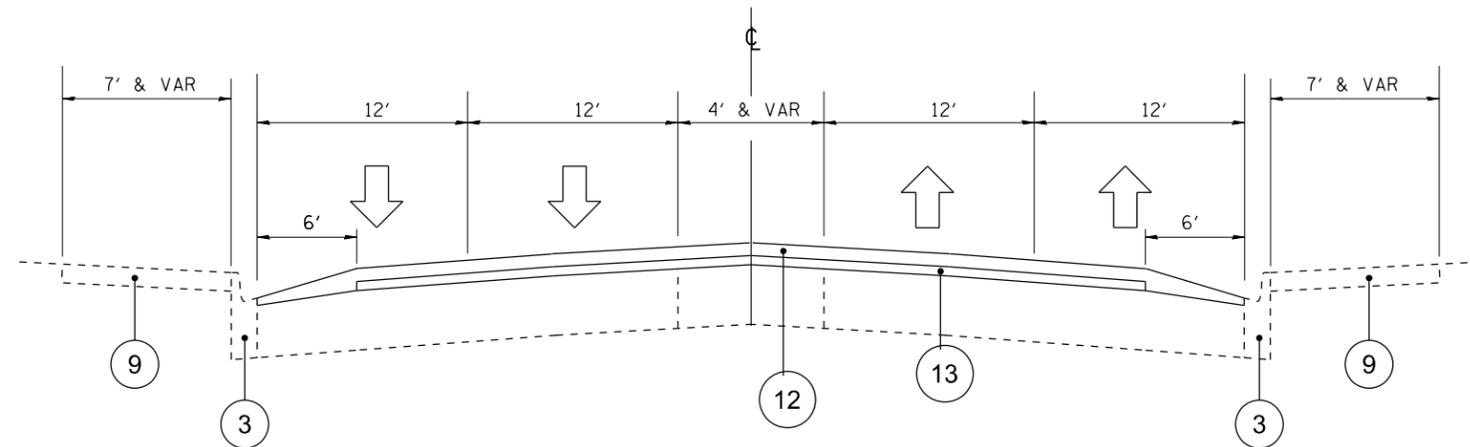
NOTES:

1. MILLING TO BE DONE BEFORE PATCHING
2. EXIST HMA OVERLAY SHALL BE MILLED TO THE EXIST PCC BASE COURSE, 10"
3. EXPOSED PCC BASE COURSE, 10" SHALL BE FREE FROM SCABS BEFORE POLY. LEVELING BINDER IS PLACED
4. HMA OVERLAY IS ±1¼" THICK NEAR EDGE OF GUTTER. REMOVAL SHALL BE PAID AS HMA SURF. REMOVAL 2½"



JOE ORR ROAD  
EXISTING TYPICAL SECTION

STA 73+80.8 TO STA 108+00  
STA 123+70.4 TO STA 126+73.76



JOE ORR ROAD  
PROPOSED TYPICAL SECTION

STA 73+80.8 TO STA 108+00  
STA 123+70.4 TO STA 126+73.76

# LEGEND

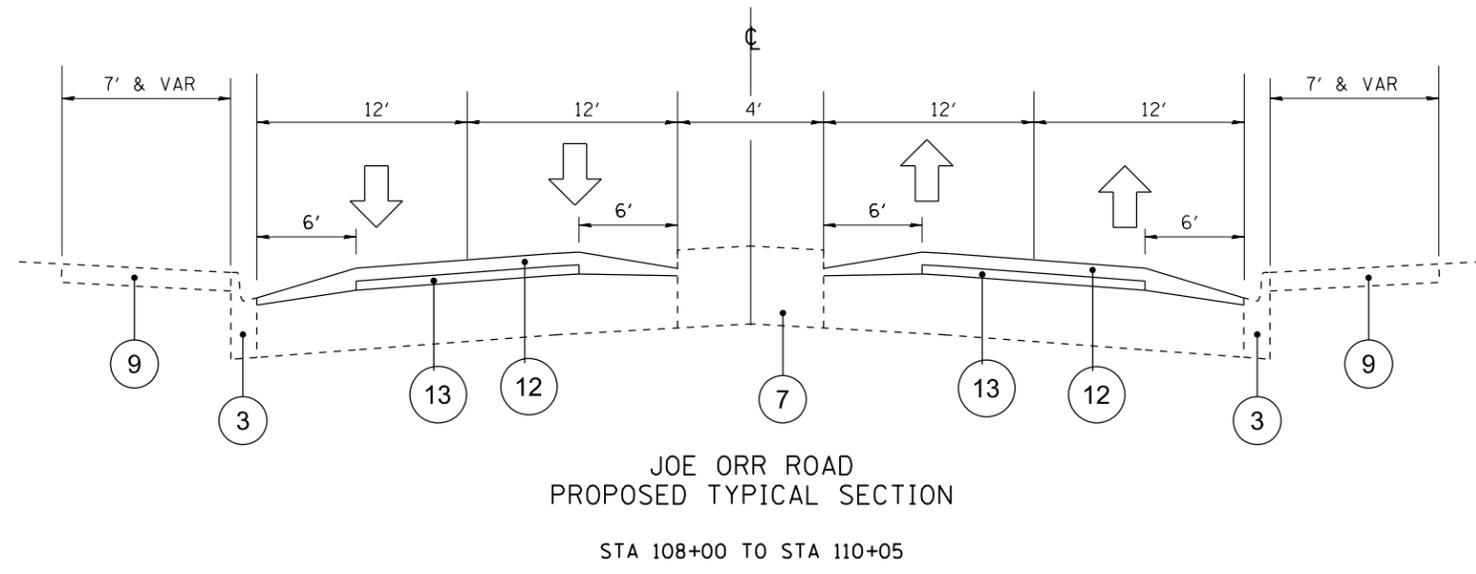
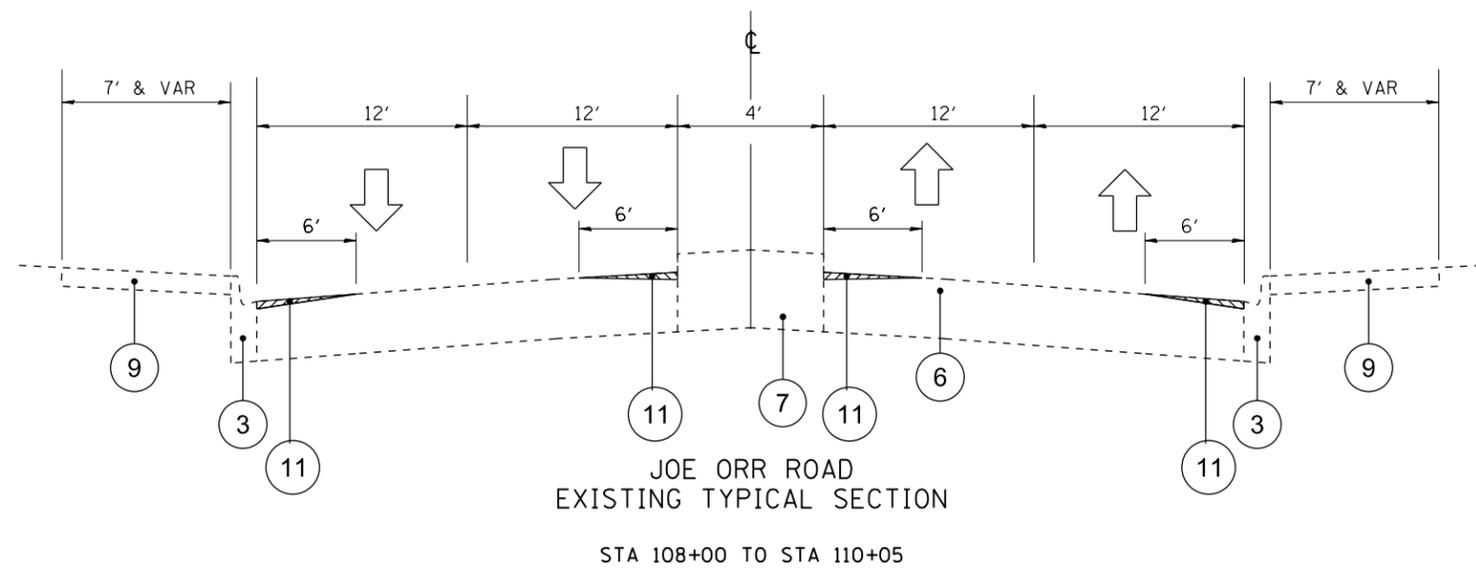
- ① EXIST. HMA OVERLAY, 2½"
- ② EXIST. PCC BASE COURSE, 10"
- ③ EXIST. PCC COMB. CURB & GUTTER, B.6-24
- ④ EXIST. CORRUGATED MEDIAN, PREVIOUSLY MILLED FLUSH
- ⑤ EXIST. CORRUGATED MEDIAN
- ⑥ EXIST. PCC PAVEMENT, 10"
- ⑦ EXIST. SOLID BARRIER MEDIAN
- ⑧ EXIST. PCC COMB. CURB & GUTTER, M2.-12
- ⑨ EXIST. PCC SIDEWALK, 5"
- ⑩ PROP. HMA SURF. REMOVAL, 2½"
- ⑪ PROP. PCC SURFACE REMOVAL, VAR DEPTH
- ⑫ PROP. POLY. HMA SURF. CSE. MIX "E", N70, 1¾"
- ⑬ PROP. POLY. LEVELING BINDER (MM) IL-4.75, N50, ¾"
- ⑭ MEDIAN REMOVAL PARTIAL DEPTH, 2"±, MILL FLUSH WITH ADJACENT PAVEMENT (CORR. MEDIAN ONLY)

NOTE: MILLING TO BE DONE BEFORE PATCHING

FILE NAME =	USER NAME = ledemarm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS JOE ORR RD FROM ASHLAND AVE TO STATE ST</b>	F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI3620\Drawings\Design\DI36216-sh-typical.dgn	PLotted SCALE = 100.0000' / 1in.	CHECKED -	REVISED -			1631	0404.1-RS	COOK	27	7
Default	PLOT DATE = 3/31/2017	DATE -	REVISED -			CONTRACT NO. 62C55			ILLINOIS FED. AID PROJECT	
						SCALE: 1" = 50'	SHEET OF SHEETS	STA. TO STA.		

# LEGEND

- ① EXIST. HMA OVERLAY, 2½"
- ② EXIST. PCC BASE COURSE, 10"
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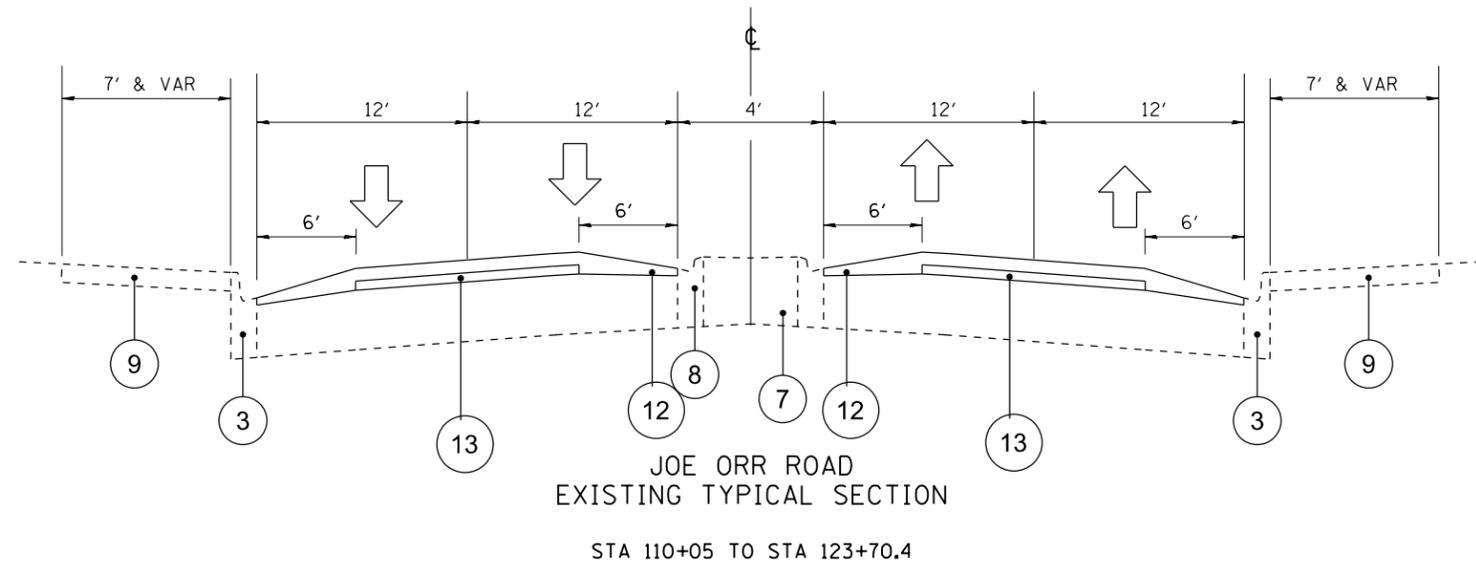
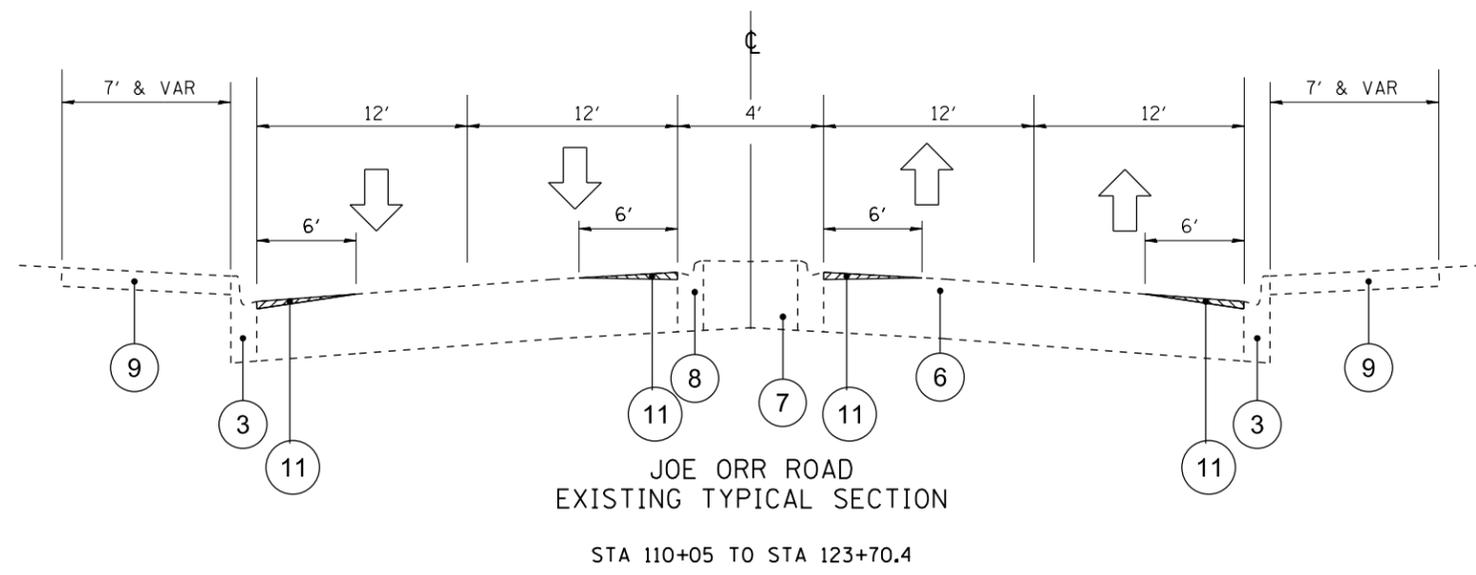


NOTE: MILLING TO BE DONE BEFORE PATCHING

FILE NAME =	USER NAME = ldezma	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS JOE ORR RD FROM ASHLAND AVE TO STATE ST</b>	F.A.U. R.T.E. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
						1631	0404.1-RS	COOK	27	8
						CONTRACT NO. 62C55				
						ILLINOIS FED. AID PROJECT				
				SCALE: 1" = 50'		SHEET OF SHEETS		STA. TO STA.		

# LEGEND

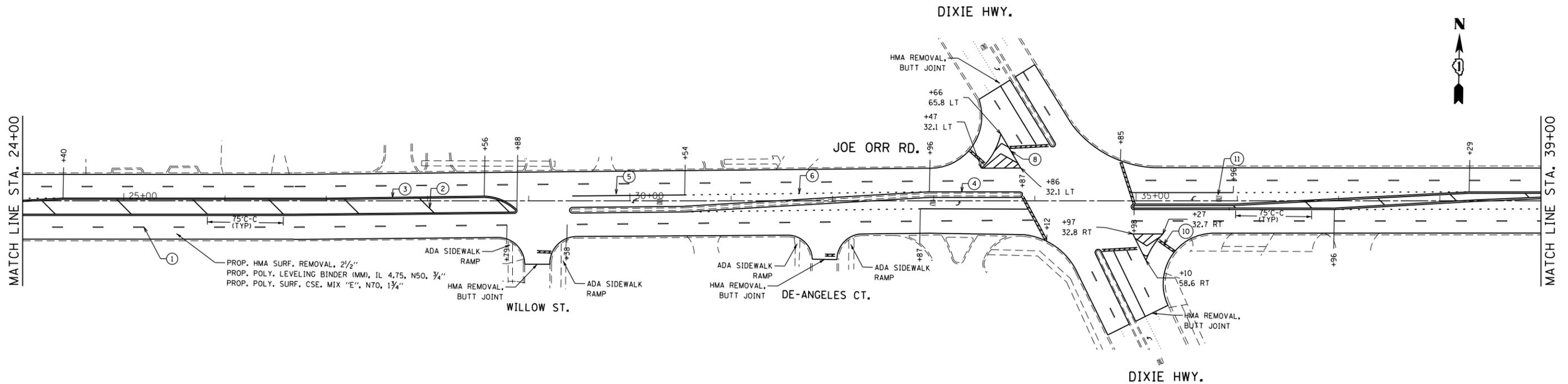
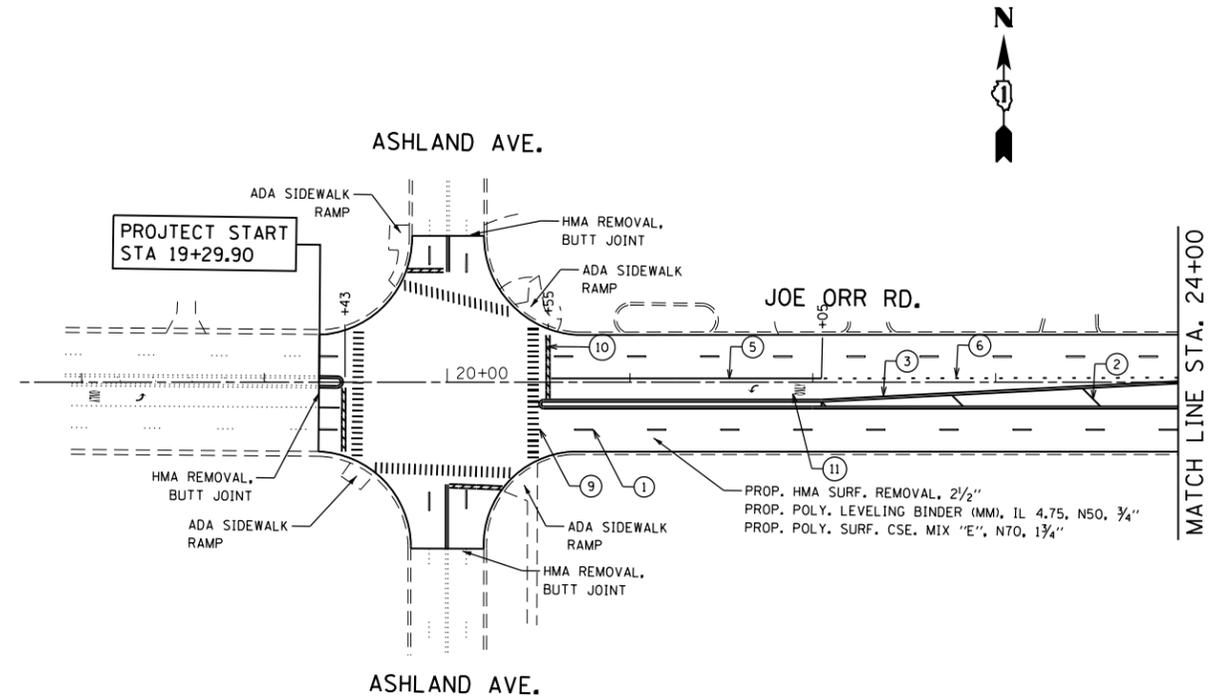
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FILE NAME =	USER NAME = ldezma	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS JOE ORR RD FROM ASHLAND AVE TO STATE ST</b>	F.A.U. R.T.E. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI36216\Drawings\Design\DI36216-sh-typical.dgn		REVISIONS				1631	0404.1-RS	COOK	27	9
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -			CONTRACT NO. 62C55			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 3/31/2017	DATE -	REVISED -			SCALE: 1" = 50'	SHEET OF SHEETS	STA. TO STA.		

PAVEMENT MARKINGS LEGEND

- ① THPL. PAVT. MARKING, WHITE, SKIP DASH, 4"
- ② THPL. PAVT. MARKING, YELLOW, DIAGONALS, 12"
- ③ THPL. PAVT. MARKING, YELLOW, DBL. CENTER LINE, 4" @ 11" C-C
- ④ THPL. PAVT. MARKING, YELLOW, MEDIAN EDGE LINE, 4"
- ⑤ THPL. PAVT. MARKING, WHITE, TURN LANE, 6"
- ⑥ THPL. PAVT. MARKING, WHITE, DOTTED LINE, 6"
- ⑦ THPL. PAVT. MARKING, WHITE, CROSS WALK, 6"
- ⑧ THPL. PAVT. MARKING, WHITE, MEDIAN ISLAND, 8"
- ⑨ THPL. PAVT. MARKING, WHITE, CROSS WALK, 12"
- ⑩ THPL. PAVT. MARKING, WHITE, STOP BAR, 24"
- ⑪ THPL. PAVT. MARKING, WHITE, LETTERS & SYMBOLS



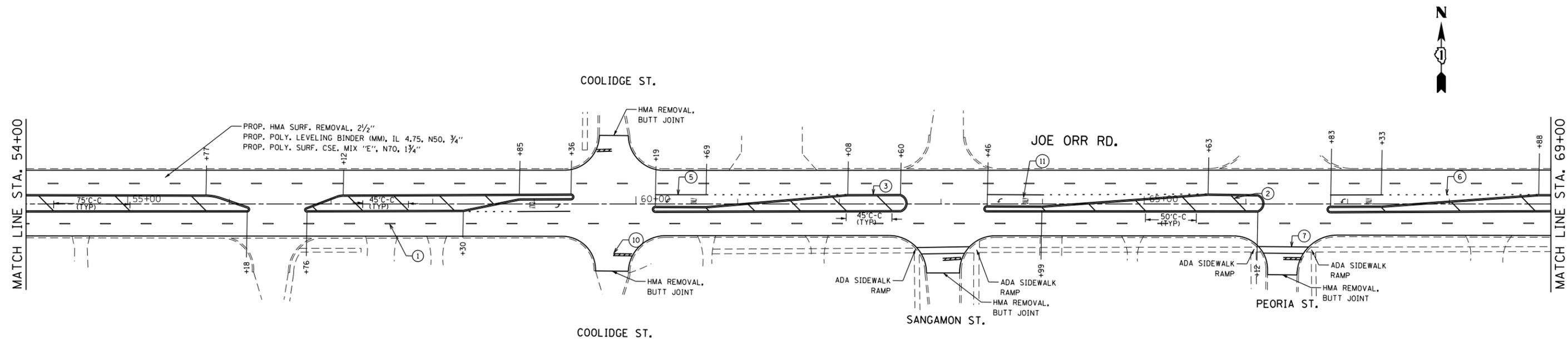
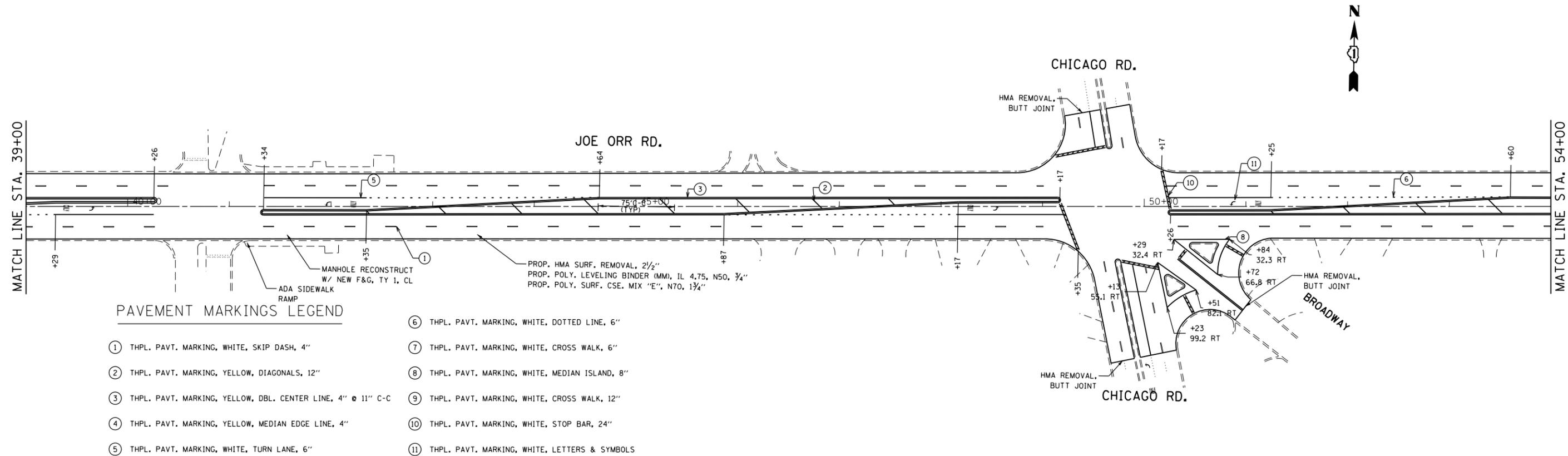
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		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

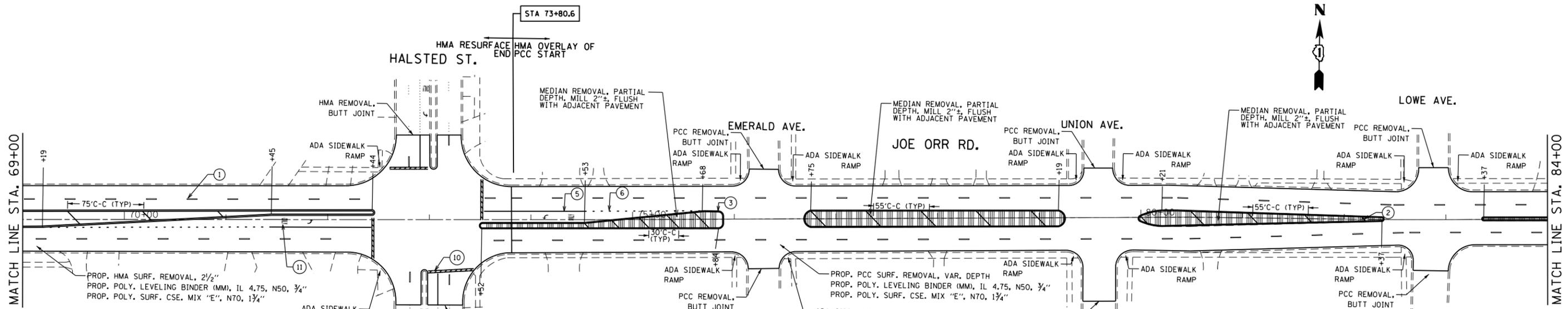
ROADWAY PLAN  
JOE ORR RD. (ASHLAND AVE. TO STATE ST.)

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	10
CONTRACT NO. 62C55				
ILLINOIS FED. AID PROJECT				

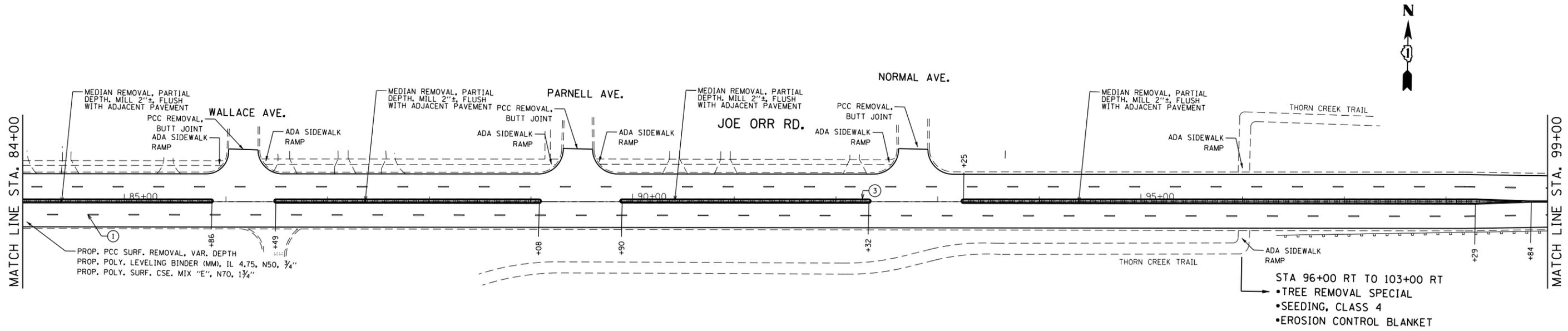


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pw:\IL\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\136216\Drawings\Design\136216-sh1-plan.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			1631	0404.1-RS	COOK	27	11
Default	PLOT DATE = 3/31/2017	DATE -	REVISED -			CONTRACT NO. 62C55				
						ILLINOIS FED. AID PROJECT				

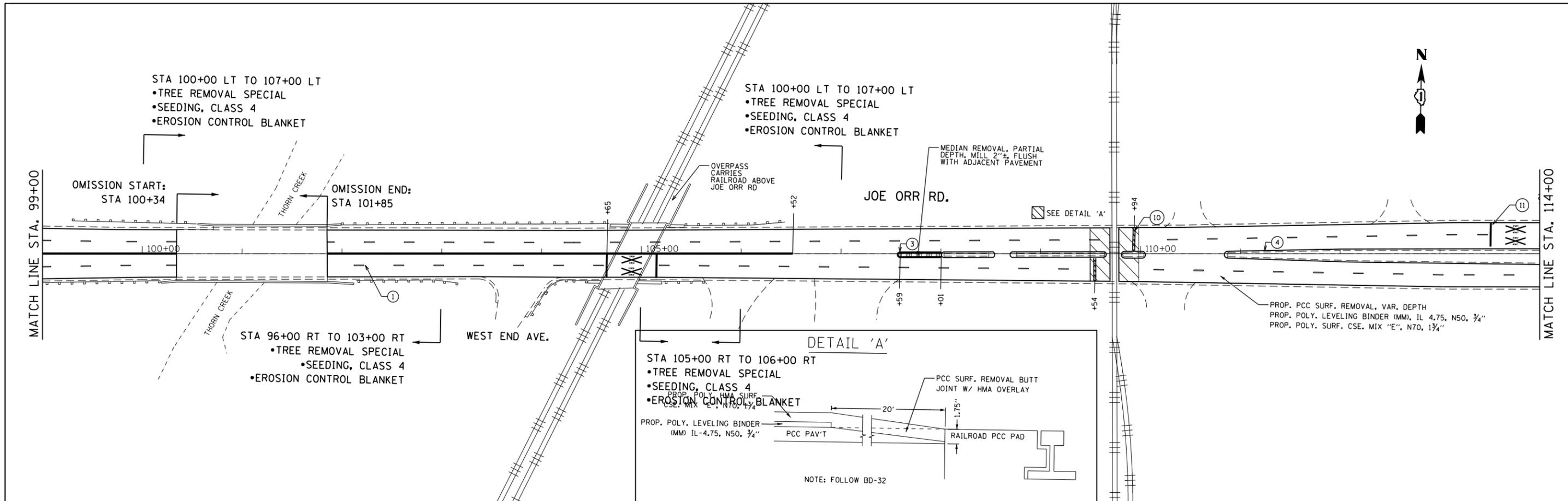


**PAVEMENT MARKINGS LEGEND**

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- ② THPL. PAVT. MARKING, YELLOW, DIAGONALS, 12"
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- ⑪ THPL. PAVT. MARKING, WHITE, LETTERS & SYMBOLS

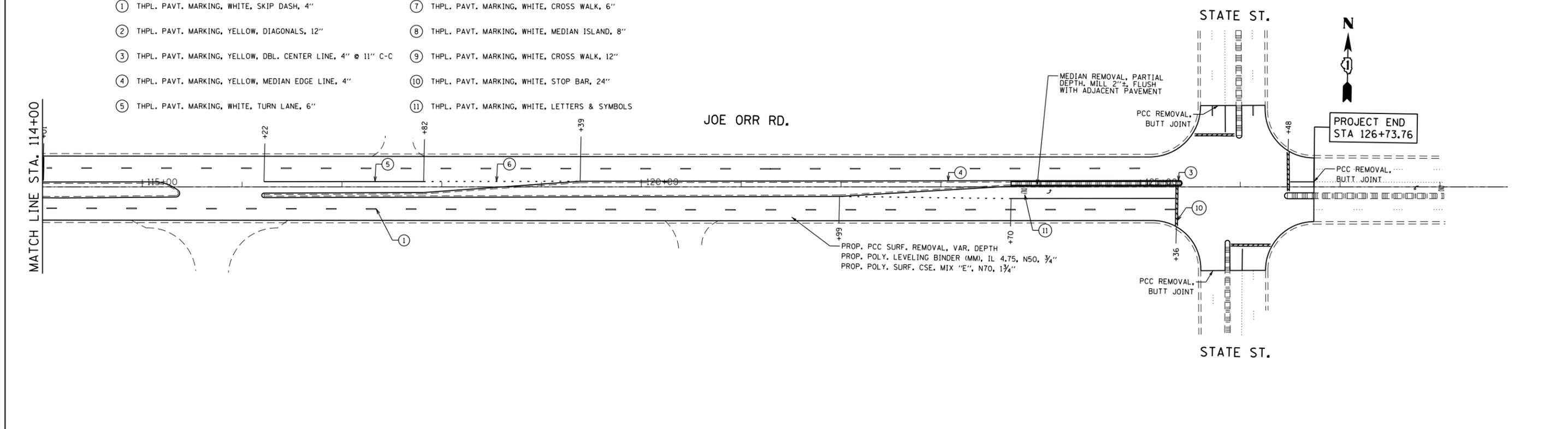


FILE NAME =	USER NAME = ledeznorm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN JOE ORR RD. (ASHLAND AVE. TO STATE ST.)</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI36216\Design\DI36216-shr-plan.dgn		CHECKED -	REVISED -		1631	0404.1-RS	COOK	27	12			
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: 1" = 50'			CONTRACT NO. 62C55				
	PLOT DATE = 4/6/2017				SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKINGS LEGEND**

- ① THPL. PAVT. MARKING, WHITE, SKIP DASH, 4"
- ② THPL. PAVT. MARKING, YELLOW, DIAGONALS, 12"
- ③ THPL. PAVT. MARKING, YELLOW, DBL. CENTER LINE, 4" @ 11" C-C
- ④ THPL. PAVT. MARKING, YELLOW, MEDIAN EDGE LINE, 4"
- ⑤ THPL. PAVT. MARKING, WHITE, TURN LANE, 6"
- ⑥ THPL. PAVT. MARKING, WHITE, DOTTED LINE, 6"
- ⑦ THPL. PAVT. MARKING, WHITE, CROSS WALK, 6"
- ⑧ THPL. PAVT. MARKING, WHITE, MEDIAN ISLAND, 8"
- ⑨ THPL. PAVT. MARKING, WHITE, CROSS WALK, 12"
- ⑩ THPL. PAVT. MARKING, WHITE, STOP BAR, 24"
- ⑪ THPL. PAVT. MARKING, WHITE, LETTERS & SYMBOLS



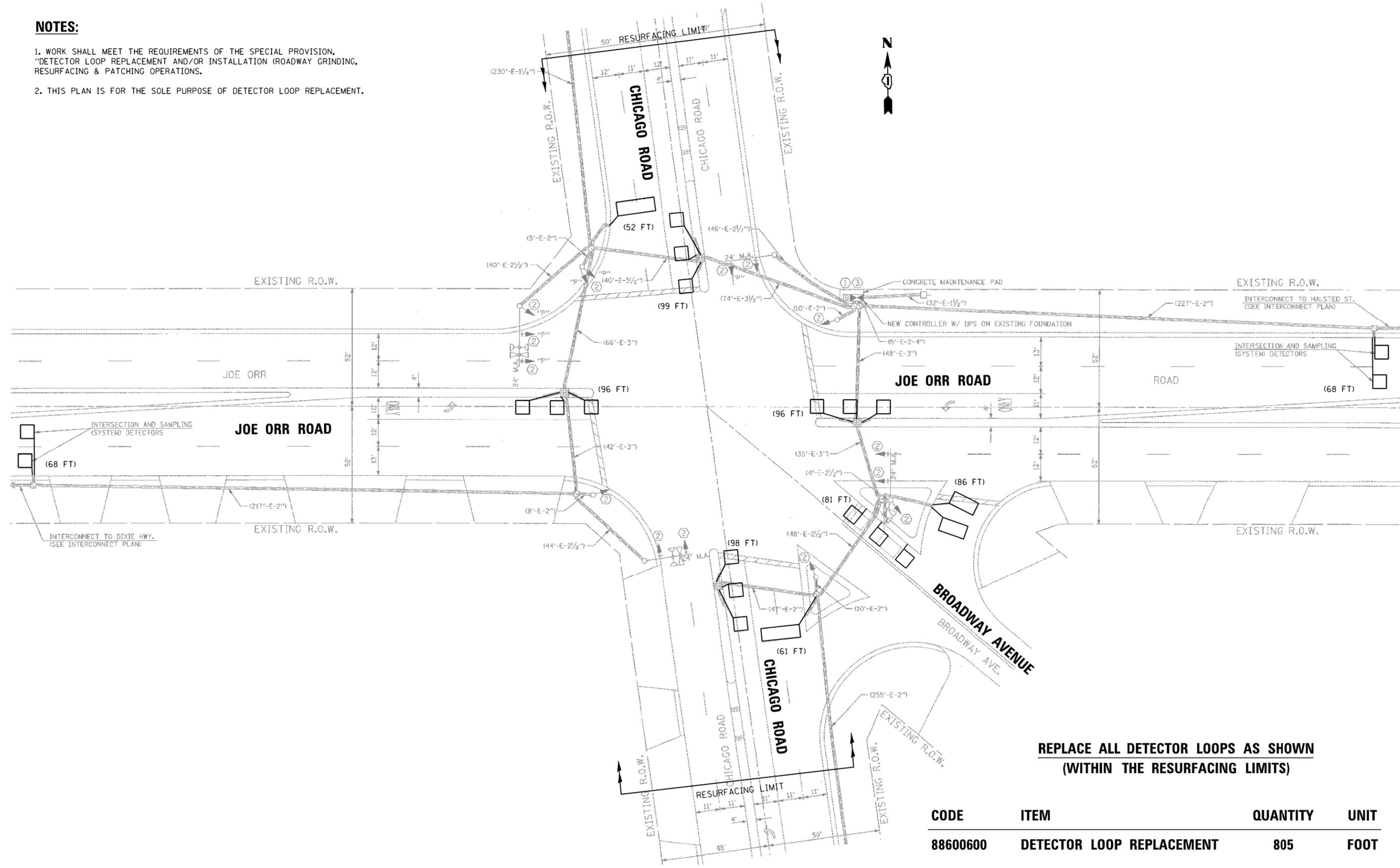
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Default	PLOT DATE = 4/6/2017	DATE -	REVISED -			CONTRACT NO. 62C55					
						ILLINOIS FED. AID PROJECT					





**NOTES:**

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	805	FOOT

FILE NAME =	USER NAME = jovanmrdzgj	DESIGNED - ZGJ	REVISED -
TS 5060 JOE ORR & CHICAGO RIEGEL.02162017.dgn		DRAWN - ZGJ	REVISED -
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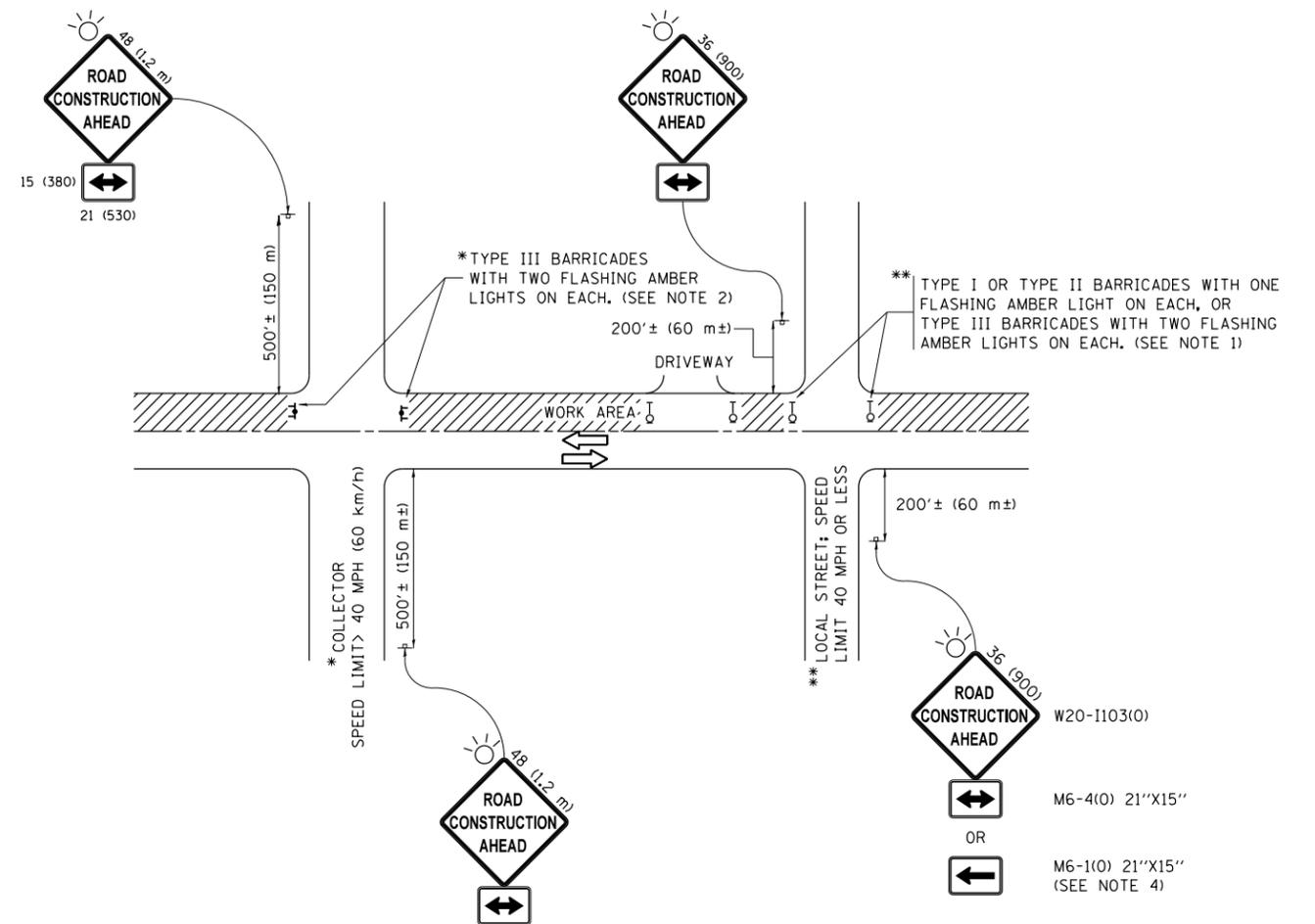
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
JOE ORR ROAD AT CHICAGO /BROADWAY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0401.1-RS	COOK	27	16
CONTRACT NO. 62C55				
ILLINOIS FED. AID PROJECT				





**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.
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.

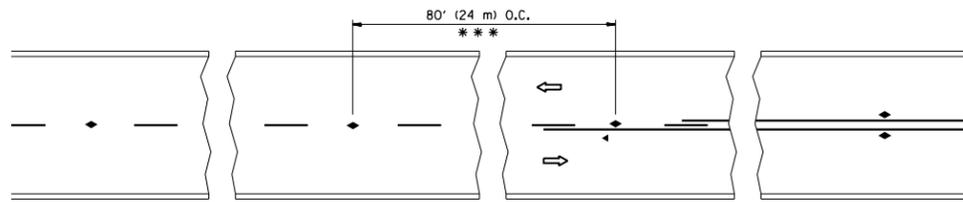
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	PLOT DATE = 3/31/2017	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

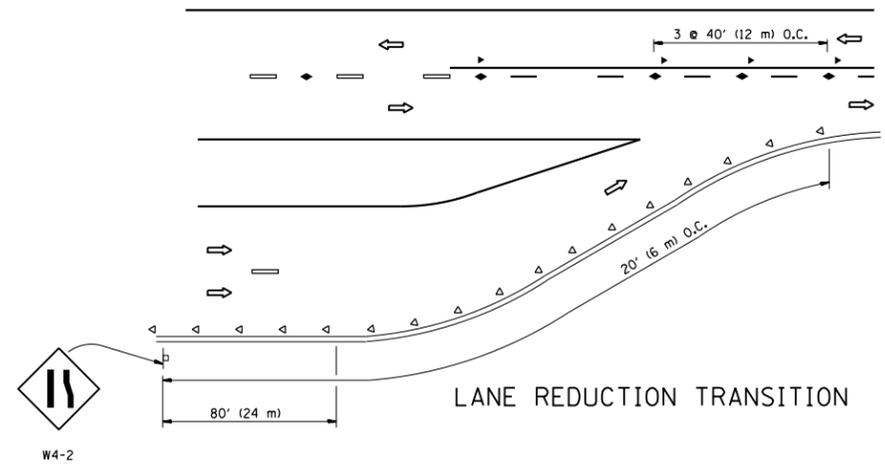
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			<b>CONTRACT NO. 62C55</b>	
ILLINOIS FED. AID PROJECT				

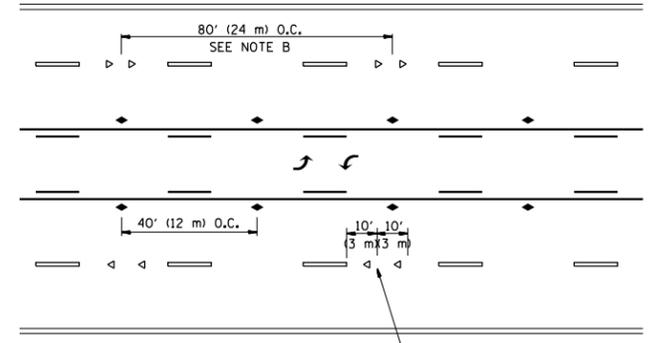


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

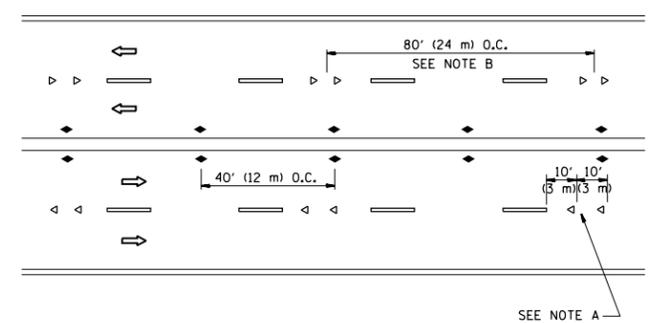
TWO-LANE/TWO-WAY



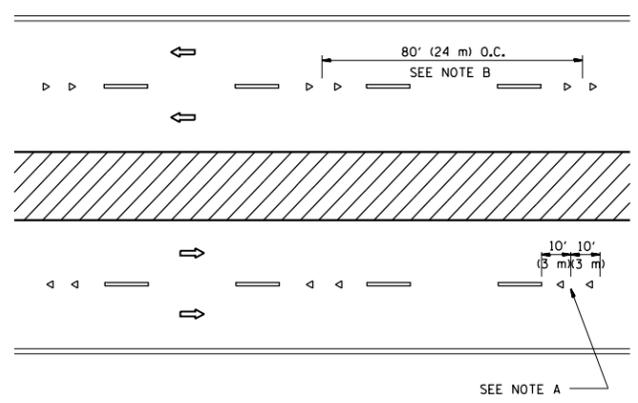
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

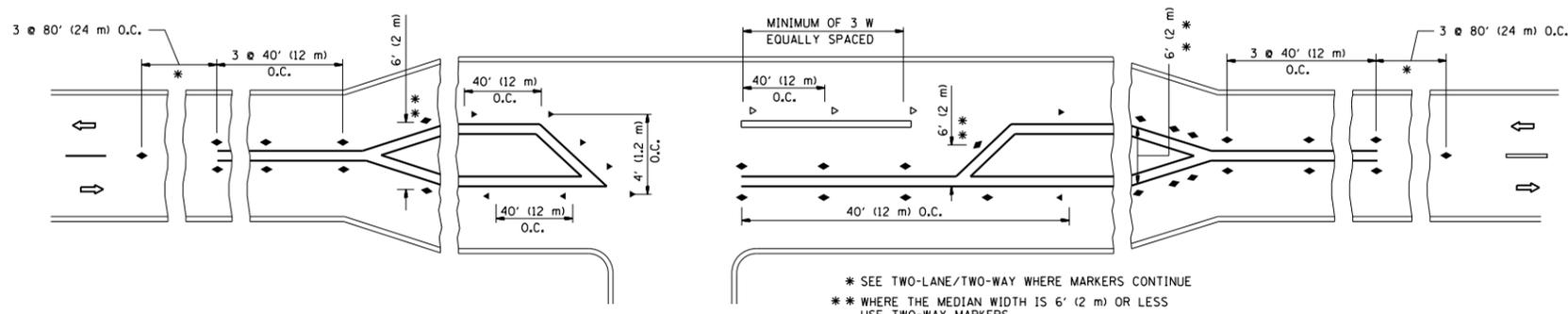
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

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.

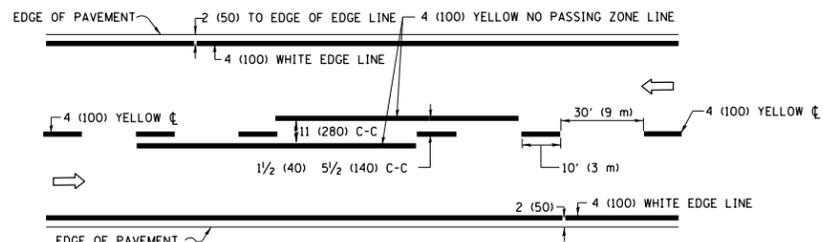


LEFT TURN

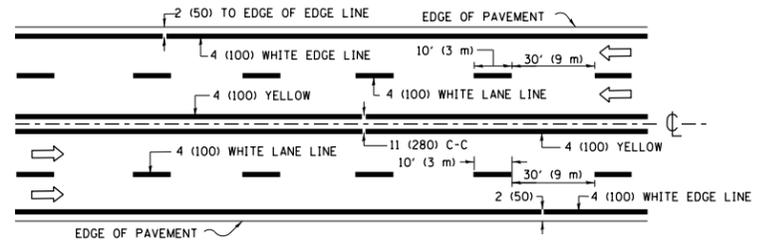
\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

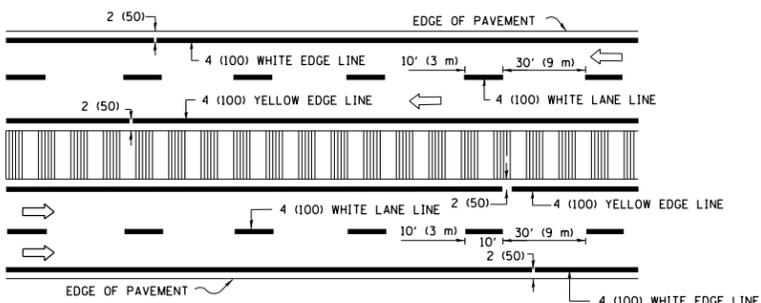
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pw\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI362\Browns\Design\Diststd.dgn		CHECKED -	REVISED - T. RAMMACHER 03-12-99					1631	0404.1-RS	COOK	27	19
PLOT SCALE = 100.0000' / 1in.		DATE -	REVISED - T. RAMMACHER 01-06-00		<b>TC-11</b>			<b>CONTRACT NO. 62C55</b>				
PLOT DATE = 3/31/2017			REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



**2-LANE ROADWAY**

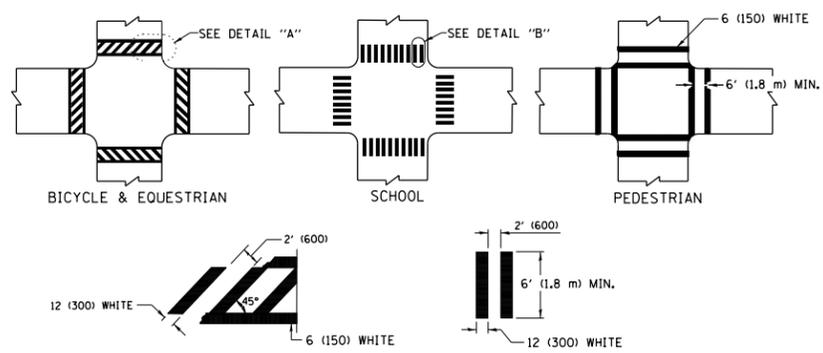


**MULTI-LANE UNDIVIDED**



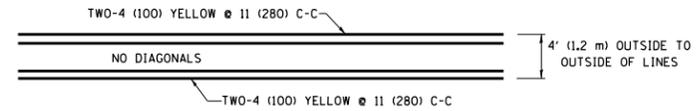
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

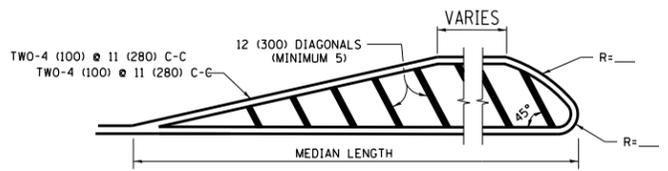


**TYPICAL CROSSWALK MARKING**

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

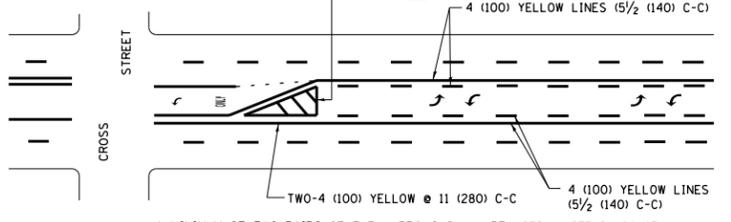


**4' (1.2 m) WIDE MEDIANS ONLY**



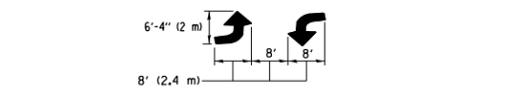
**MEDIANS OVER 4' (1.2 m) WIDE**

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))



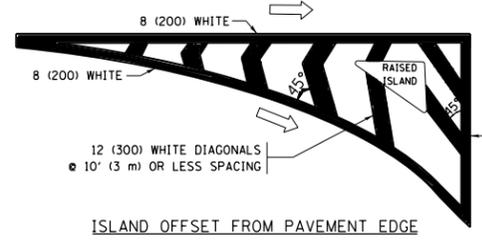
**MEDIAN WITH TWO-WAY LEFT TURN LANE  
TYPICAL PAINTED MEDIAN MARKING**

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.

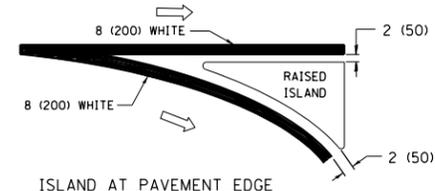


**TYPICAL LEFT (OR RIGHT) TURN LANE  
TYPICAL TURN LANE MARKING**

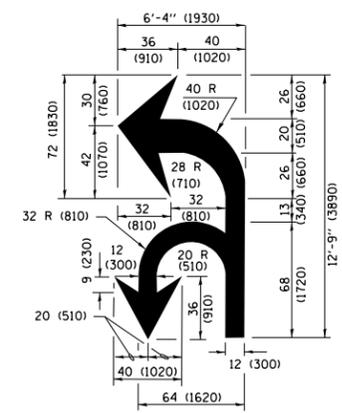
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



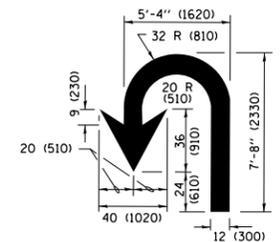
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE  
TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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

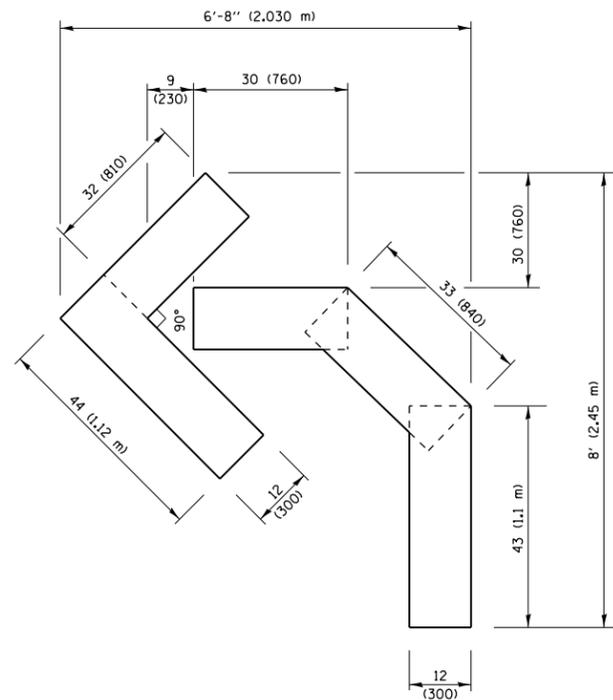
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

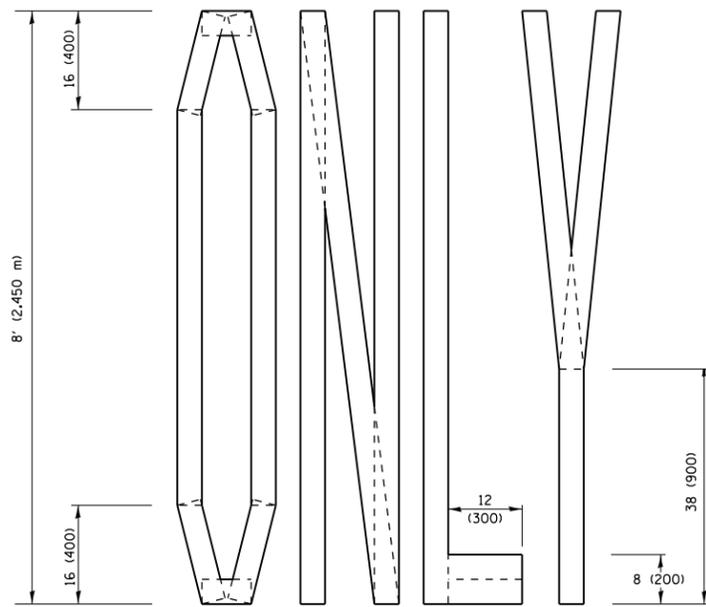
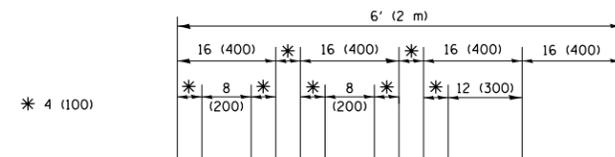
**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

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

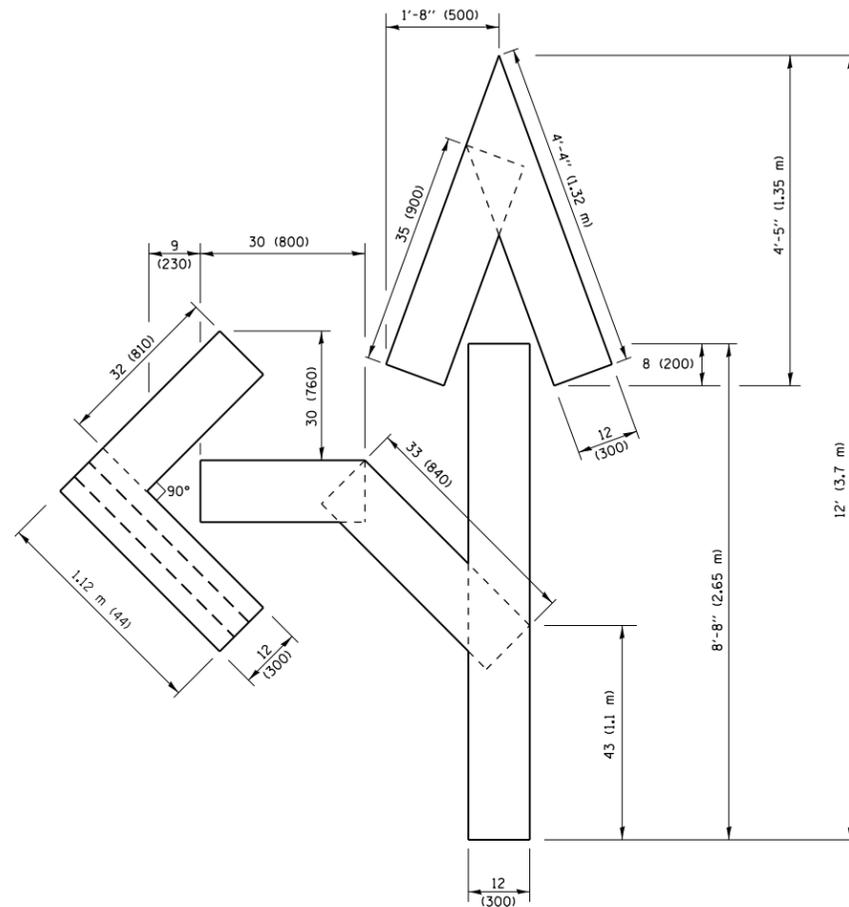
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	20
<b>TC-13</b>		<b>CONTRACT NO. 62C55</b>		
ILLINOIS FED. AID PROJECT				



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



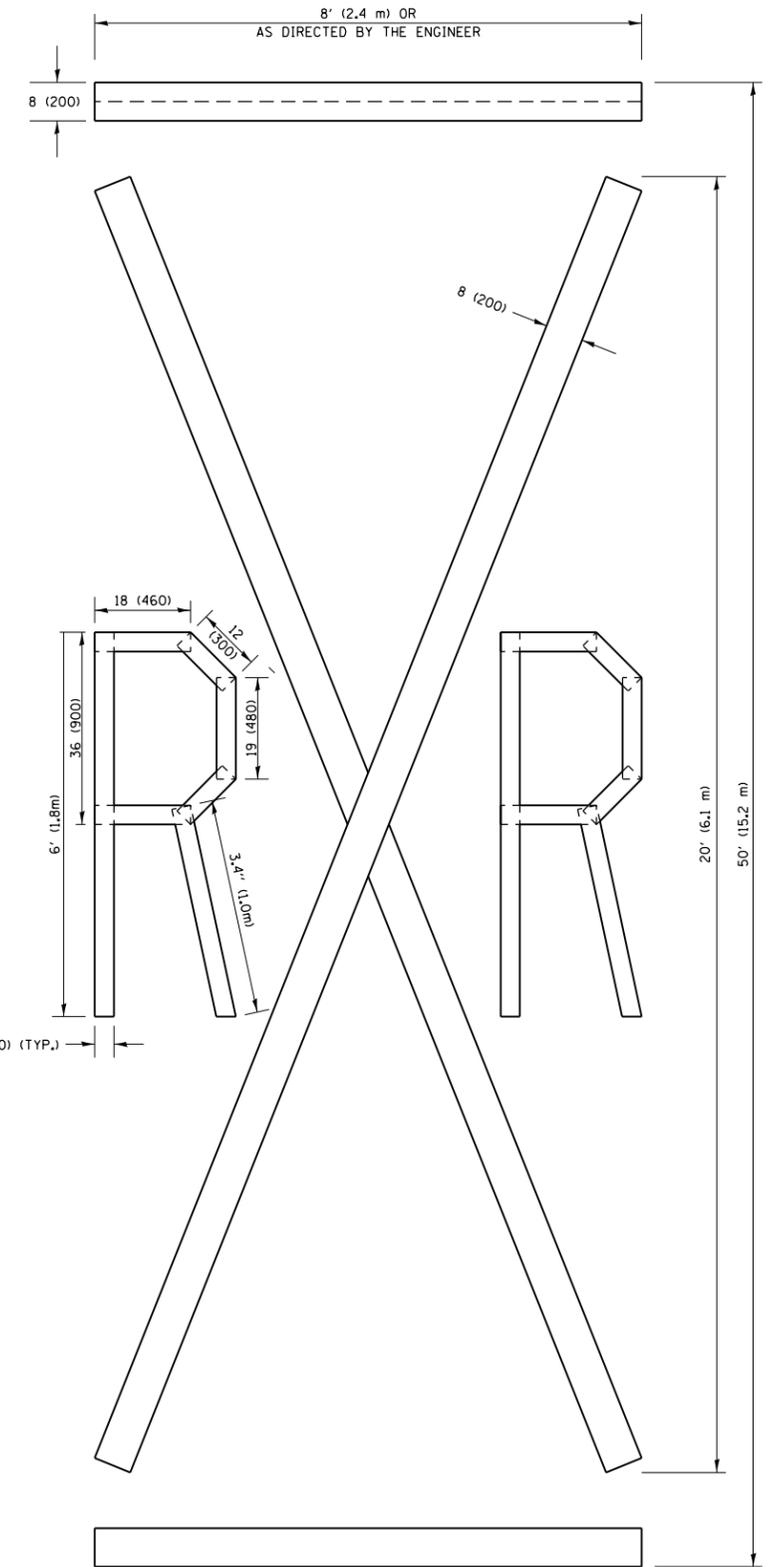
**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**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.

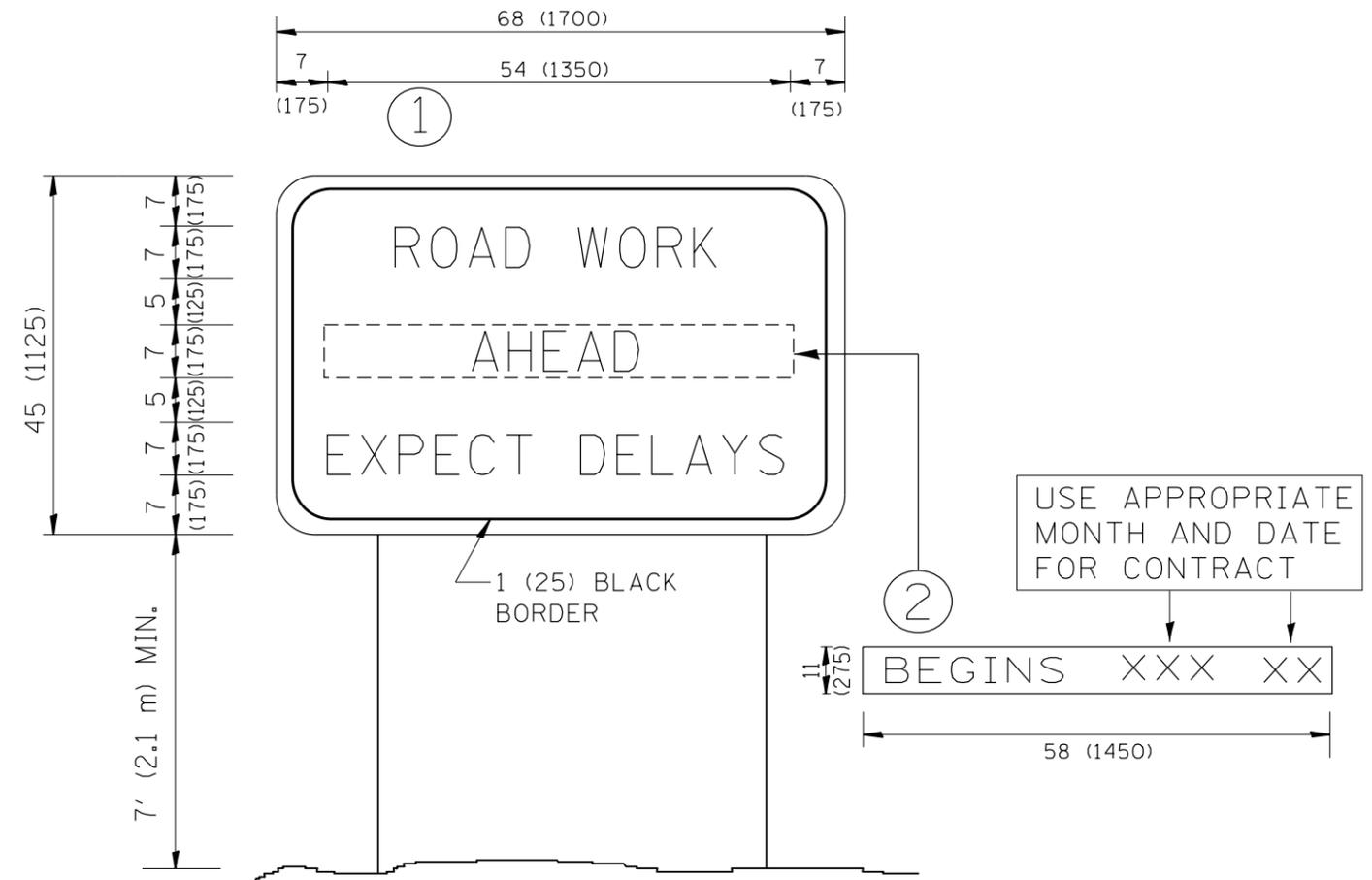
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		CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 100.0001' / in.		DATE -	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/31/2017			

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	21
<b>TC-16</b>		<b>CONTRACT NO. 62C55</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

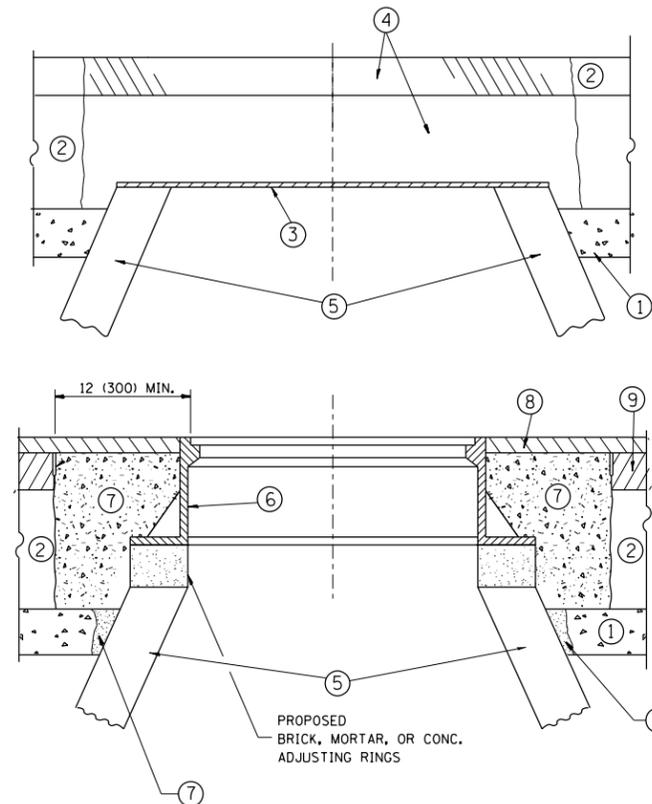


**NOTES:**

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

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

FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI362\Drawings\Design\Diststd.dgn			REVISED - R. MIRS 12-11-97			1631	0404.1-RS	COOK	27	22
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99				<b>TC-22</b>		<b>CONTRACT NO. 62C55</b>		
PLOT DATE = 3/31/2017	DATE -	REVISED - C. JUCIUS 01-31-07	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT	



**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 1/2 (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 ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- 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:**

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.

**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.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

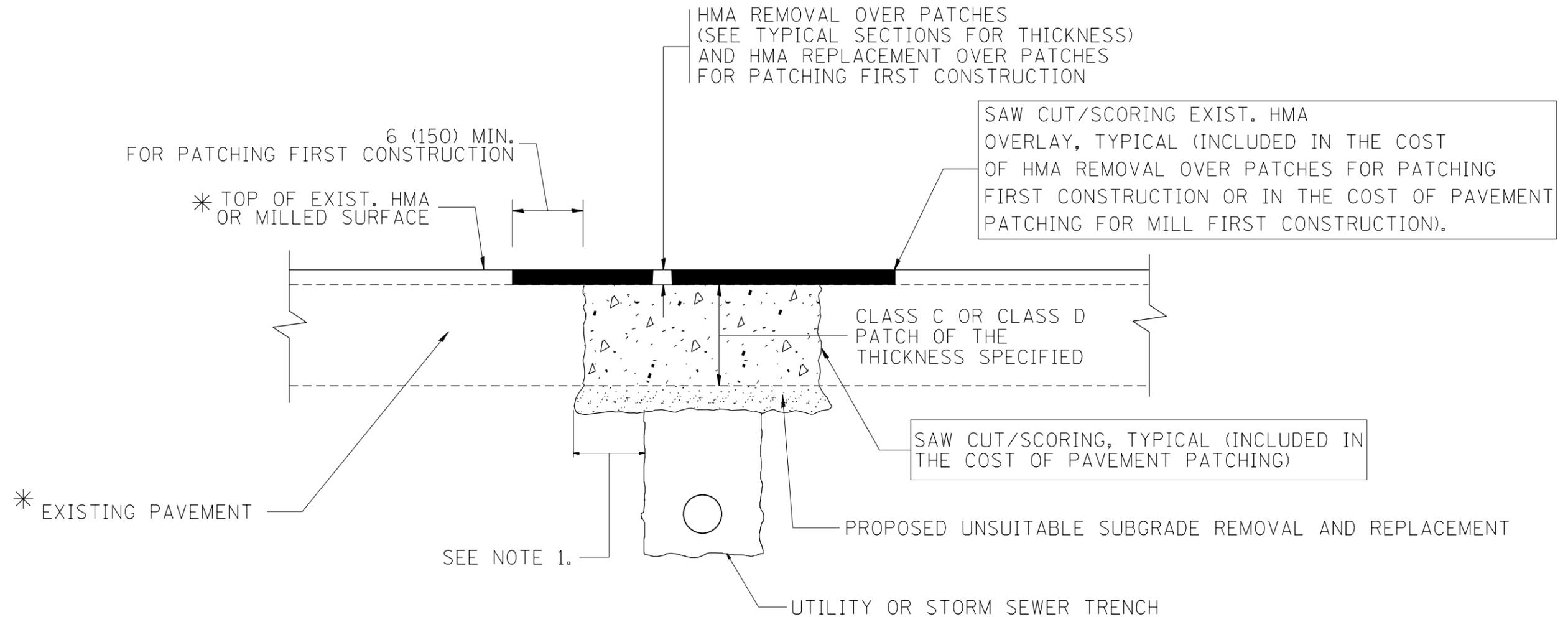
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = ldezma	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI362\Drawings\Design\Diststd.dgn			REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 03-09-11
		DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	23
<b>BD600-03 (BD-8)</b>			<b>CONTRACT NO. 62C55</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

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

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 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.

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

FILE NAME =	USER NAME = ledezmar	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI382\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000' / 1" =	DATE - 10-25-94	REVISED - R. BORO 09-04-07
	PLOT DATE = 3/31/2017		REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	24
<b>BD400-04 (BD-22)</b>			<b>CONTRACT NO. 62C55</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING 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 PAY ITEM.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**  
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".

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) \*\*

18" (450) MAX.

T/2 \*

3" (75) MIN.

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ 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.

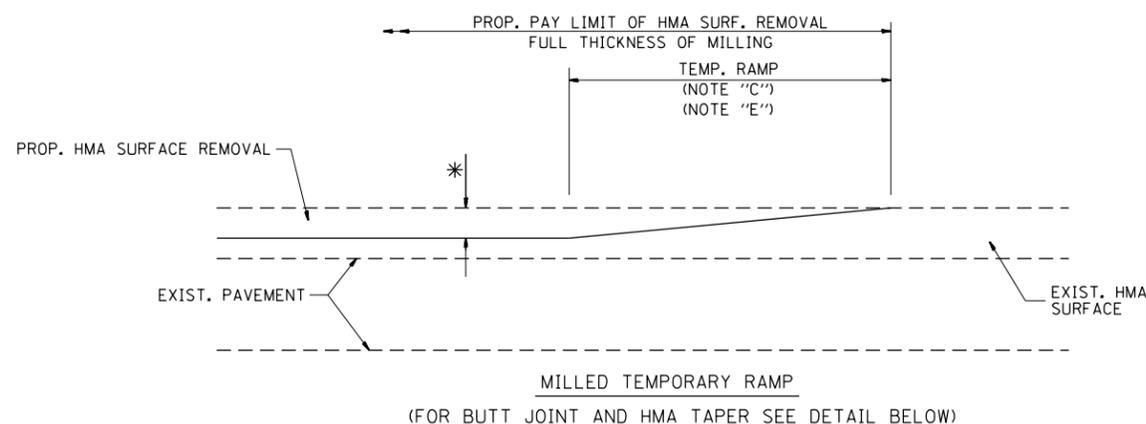
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

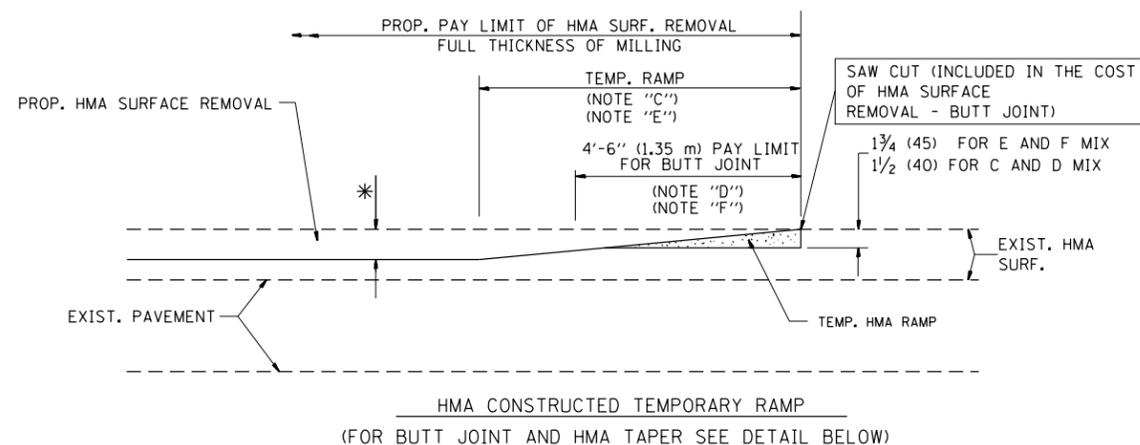
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = ledezmar	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI362\BROWNS\to\Design\Diststd.dgn		REVISION	REVISED - A. ABBAS 03-21-97			1631	0404.1-RS	COOK	27	25
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 01-22-01				<b>BD600-06 (BD-24)</b>		<b>CONTRACT NO. 62C55</b>		
PLOT DATE = 3/31/2017	DATE - 03-11-94	REVISED - R. BORO 12-15-09	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT

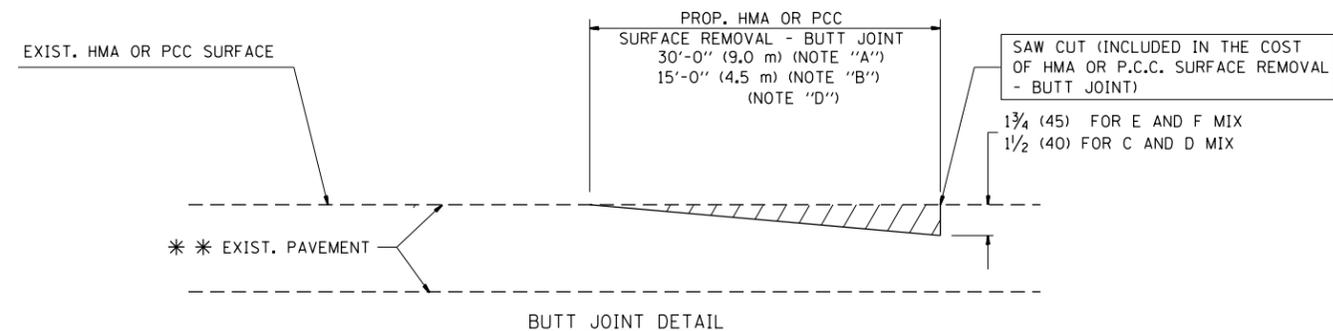


**OPTION 1**

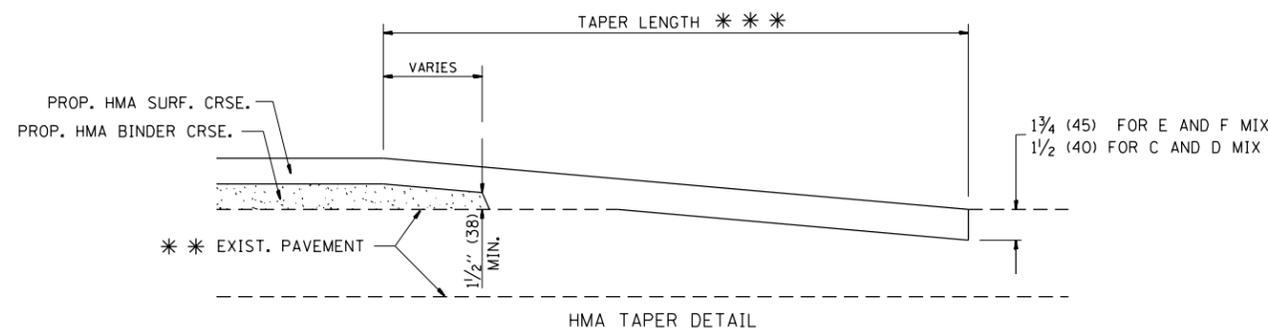


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

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

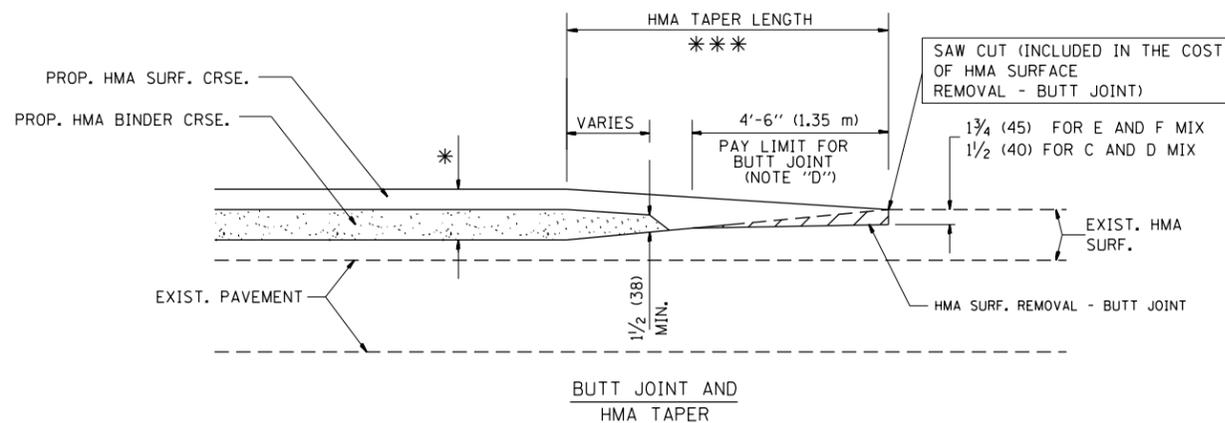
**NOTES**

- 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
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

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

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



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

FILE NAME =	USER NAME = ledeznorm	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
p:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI362\Drawings\Design\Diststd.dgn		REVISED - A. ABBAS 03-21-97	
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 3/31/2017	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1631	0404.1-RS	COOK	27	26
BD400-05 BD32			CONTRACT NO. 62C55	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

