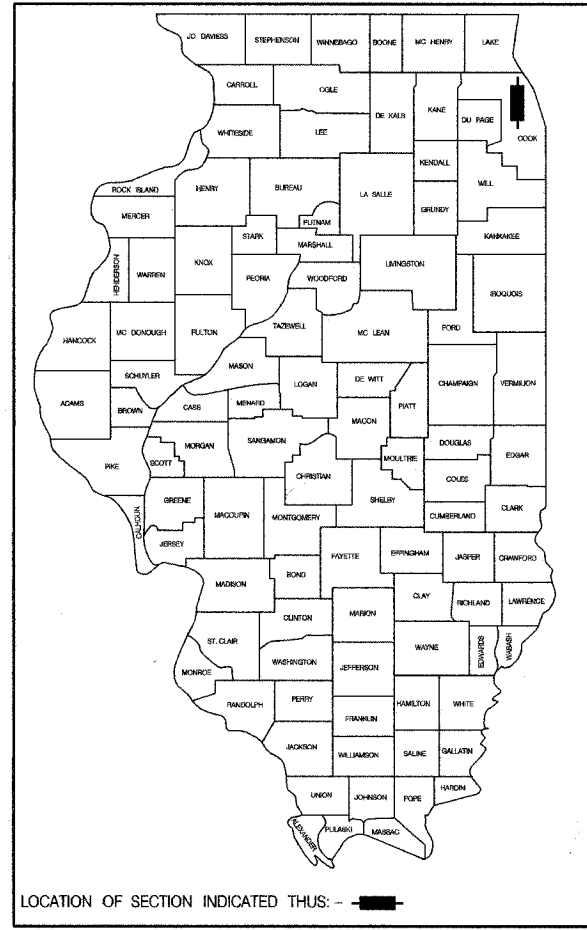


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* FAI 94 / FAP 346 D-91-174-03	2003-071 RS	COOK	97	1
			+ 2	
			99	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

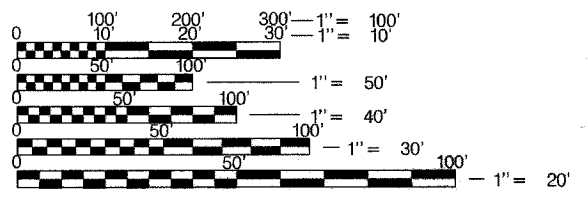
F.A.I. 94/FAP 346 (INTERSTATE 94/US 41)
SECTION 2003-071 RS **PROJECT: IM-000S (549)**
OLD ORCHARD ROAD TO LAKE COOK ROAD
RESURFACING, BRIDGE REPAIR
AND BRIDGE DECK OVERLAY
COOK COUNTY
C-91-174-03



FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATION EQUATIONS, SEE SHEET NO. 3
ADT = 163,000 (2005)
POSTED SPEED LIMIT = 55 M.P.H.

THIS PROJECT IS LOCATED WITHIN THE VILLAGES OF NORTHBROOK, NORTHFIELD, GLENVIEW, WILMETTE, AND SKOKIE.

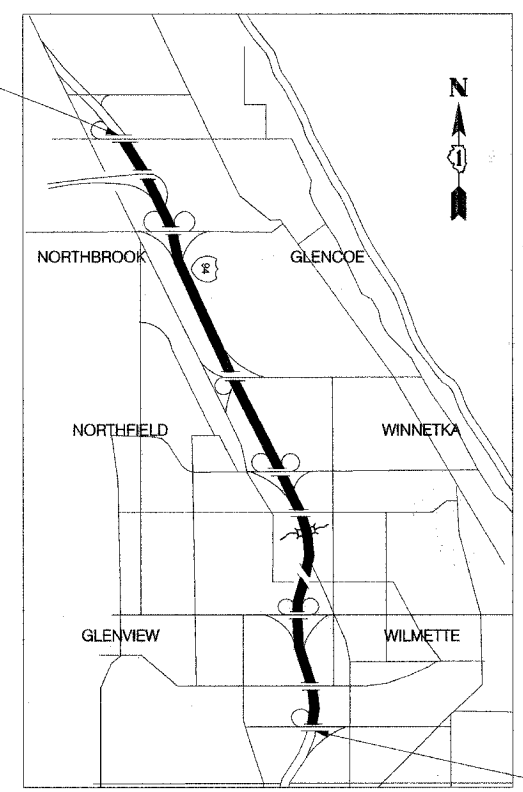
DISTRICT ONE - IDOT PROJECT MANAGER: KEN ENG (847) 705-4247



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.

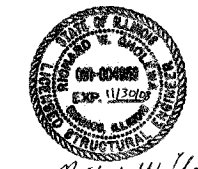
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

PROJECT ENDS
STA. 650+69



PROJECT BEGINS
STA. 297+60

GROSS LENGTH OF PROJECT = 35,369 LINEAL FEET = 6.70 MILES
NET LENGTH OF PROJECT = 35,369 LINEAL FEET = 6.70 MILES



Richard W. Usher 5/15/07
EXPIRES 11/30/2008



David M. Porter 5/15/07
EXPIRES 11/30/2007

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 17 20 07

Diane O'Keefe / *CO*
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29 20 07
Eric E. ...
ENGINEER OF DESIGN AND ENVIRONMENT

June 29 20 07
Matt R. ...
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	3
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES:

- 1 BEFORE STARTING AN EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED).
- 2 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 3 THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4 BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED.
- 5 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 GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H)
- 6 BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 7 CONTACT MR. JEFFREY JULIANO AREA TRAFFIC FIELD ENGINEER AT (847) 705-4153 TWO WEEKS PRIOR TO INSTALLATION OF FINAL PAVEMENT MARKINGS.
- 8 WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 9 THE CONTRACTOR WILL COORDINATE WORK ACTIVITY WITH THE ADJACENT 1-94/EDEN'S CONTRACT (*62747).
- 10 MATERIAL TRANSFER DEVICE TO BE USED FOR SMA MIXES ON THE MAIN LINE, NOT ON THE RAMPS OR SHOULDERS.
- 11 VERTICAL CLEARANCES OF BRIDGES CANNOT BE REDUCED BELOW 14' 0".
- 12 CHANGE IN VERTICAL CLEARANCES FOR ALL OBSTRUCTIONS MUST BE MEASURED AND PROMPTLY REPORTED TO THE ENGINEER.
- 13 THE CONTRACTOR IS TO ORIENT THE DRAINAGE STRUCTURE GRATES PROPERLY AFTER ADJUSTMENT IN HEIGHT IS MADE

STATION EQUATIONS:

- STA. 315+01.39 BK = STA. 315+01.24 AH
- STA. 341+24.13 BK = STA. 341+24.07 AH
- STA. 349+00.00 BK = STA. 348+43.34 AH
- STA. 395+60.66 BK = STA. 395+60.59 AH
- STA. 468+92.01 BK = STA. 468+92.00 AH
- STA. 480+29.59 BK = STA. 480+30.04 AH
- STA. 560+55.67 BK = STA. 560+55.64 AH
- STA. 587+33.38 BK = STA. 587+33.35 AH
- STA. 622+13.66 BK = STA. 622+13.63 AH
- STA. 625+00.00 BK = STA. 625+14.98 AH
- STA. 667+38.88 BK = STA. 667+38.79 AH
- STA. 694+50.87 BK = STA. 694+50.81 AH

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		GENERAL NOTES AND STATION EQUATIONS F.A.I. 94 (I-94)
SCALE:		DRAWN BY DCS
DATE MAY 2007		CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

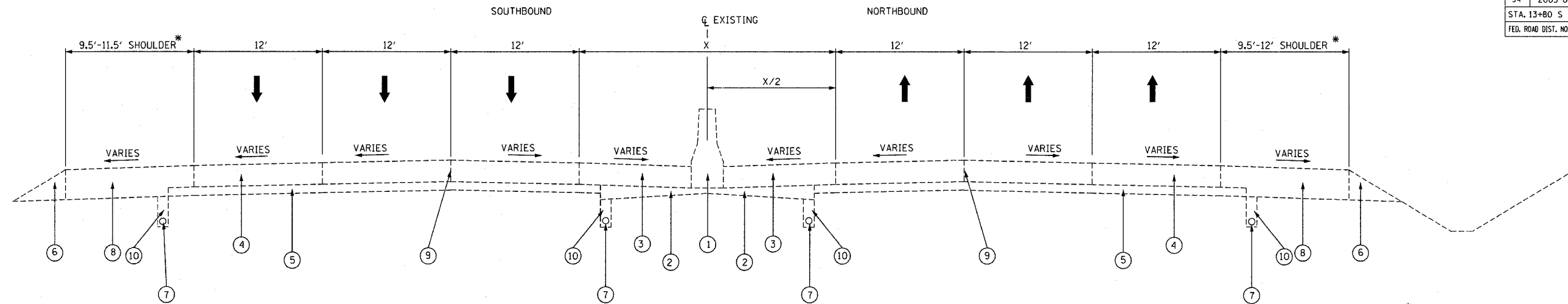
URBAN
901.FED./101.STATE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	NB ROADWAY 1000	SB ROADWAY 1000	DRAINAGE 1000	BRIDGES X031-2A
20800150	TRENCH BACKFILL	CU YD	134			134	
21400100	GRADING AND SHAPING DITCHES	FOOT	150	150			
35102400	AGGREGATE BASE COURSE, TYPE B, 12"	SO YD	134			134	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	420	207	213		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGE WAYS	TON	98	49	49		
40600895	CONSTRUCTING TEST STRIP	EACH	4	2	2		
40600982	HOT-MIX SURFACE REMOVAL - BUTT JOINT	SO YD	2340	1170	1170		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	1660	834	834		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	24,999	12151	12848		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	18,276	8877	9399		
44000100	PAVEMENT REMOVAL	SO YD	134			134	
44200553	CLASS A PATCHES, TYPE II, 10 INCH	SO YD	349	104	245		
44200557	CLASS A PATCHES, TYPE III, 10 INCH	SO YD	68		68		
44200559	CLASS A PATCHES, TYPE IV, 10 INCH	SO YD	1234	907	327		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	730	392	338		
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	380	254	126		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	2169	1844	325		
44201296	DEFORMED BARS - EXPANSION JOINT	EACH	236	236			
44213000	PATCHING REINFORCEMENT	SO YD	3656	2660	996		
44213200	SAW CUTS	FOOT	11076	6726	3990	360	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,705	851	854		
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SO YD	134			134	
50102400	CONCRETE REMOVAL	CU YD	25.7				25.7
50157300	PROTECTIVE SHIELD	SO YD	873				873
50300255	CONCRETE SUPERSTRUCTURE	CU YD	29.8				29.8
50300260	BRIDGE DECK GROOVING	SO YD	791				791
50300300	PROTECTIVE COAT	SO YD	83				83
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,330				4,330
50800515	BAR SPLICERS	EACH	52				52
52000110	PREFORMED JOINT STRIP SEAL	FOOT	240				240
55021600	RCCP CL III, TYP 2, REIN. CONC. CULVERT, ST. DRAIN, AND SEWER PIPE, CLASS III 12"	FOOT	130			130	
59000200	EPOXY CRACK INJECTION	FOOT	200				200

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES F.A.I. 94 (I-94)
NAME	DATE	
SCALE:	DRAWN BY DCS	DATE MAY 2007 CHECKED BY

Rev.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	7
STA. 13+80 S		TO STA. 296+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

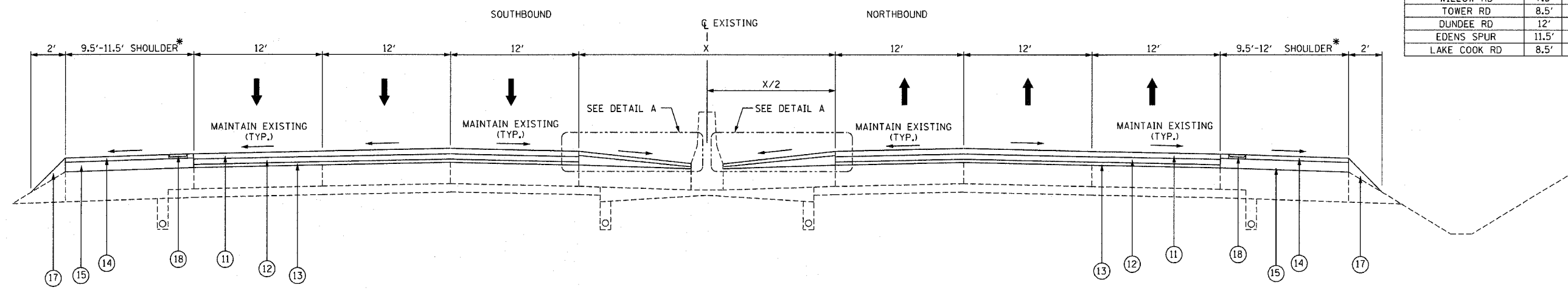


EXISTING TYPICAL SECTION
 STA. 297+00 TO 407+75
 STA. 422+75 TO 651+00

LOCATION	X
26+67 TO 297+22.87	25'
297+22.87 TO 315+01.29	25' TO 18'
26+67 TO 297+22.87	18'

*UNDERPASS SHOULDER WIDTHS NOT INCLUDED

LOCATION	WIDTH	
	NB	SB
GLENVIEW RD	9.5'	8.5'
LAKE AVE	12'	2'
SKOKIE BLVD	9.5'	8'
WILLOW RD	7.5'	6'
TOWER RD	8.5'	8.5'
DUNDEE RD	12'	6'
EDENS SPUR	11.5'	11'
LAKE COOK RD	8.5'	9'



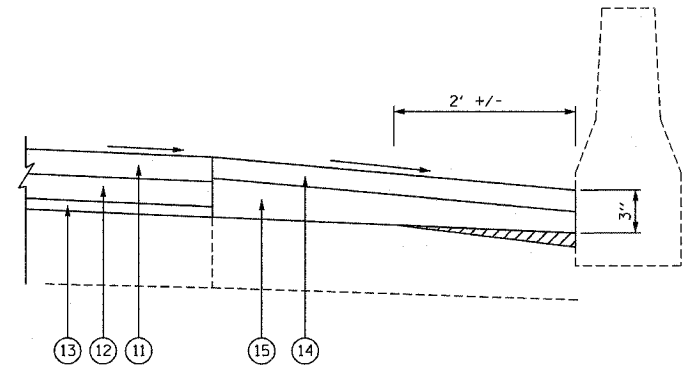
PROPOSED TYPICAL SECTION
 STA. 297+00 TO 407+75
 STA. 422+75 TO 651+00

EXISTING LEGEND:

- ① EXISTING CONCRETE BARRIER
- ② EXISTING GRANULAR SUB-BASE
- ③ EXISTING BITUMINOUS SHOULDERS
- ④ EXISTING P.C.C. PAVEMENT, 10"
- ⑤ EXISTING SUB-BASE
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING PIPE UNDERDRAIN
- ⑧ EXISTING BITUMINOUS SHOULDER, 13"
- ⑨ LONGITUDINAL JOINT
- ⑩ BACKFILL FOR UNDERDRAIN

PROPOSED LEGEND:

- ⑪ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- ⑫ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- ⑬ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑭ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-3/4"
- ⑮ HOT-MIX ASPHALT BINDER COURSE, IL-17, N70, VARIES 2-1/4" TO 2-3/4"
- ⑯ PROPOSED BARRIER WALL REFLECTORS, TYPE A
- ⑰ PROPOSED AGGREGATE SHOULDER, TYPE B
- ⑱ PROPOSED RUMBLE STRIPS



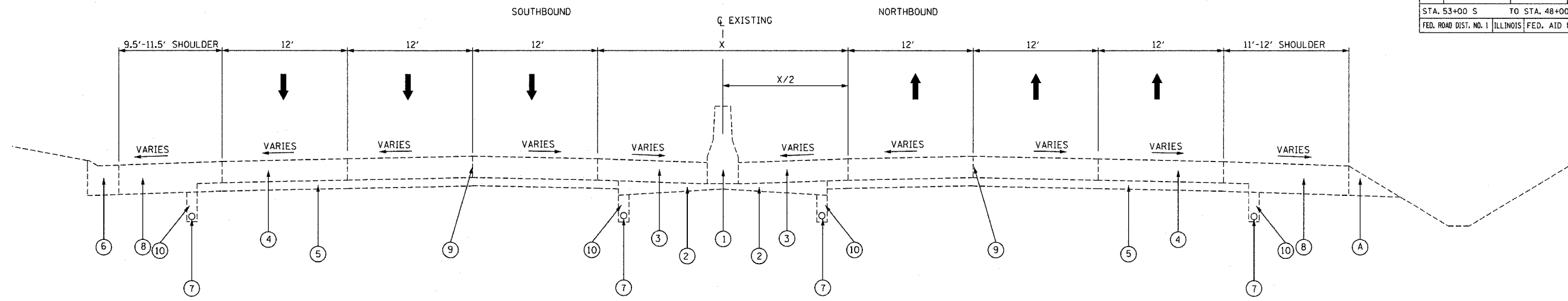
DETAIL A
 N.T.S.

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING AND PROPOSED TYPICAL SECTIONS
 F.A.I. 94 (I-94)
 SCALE: N.T.S.
 DATE: MAY 2007
 DRAWN BY: JW
 CHECKED BY:

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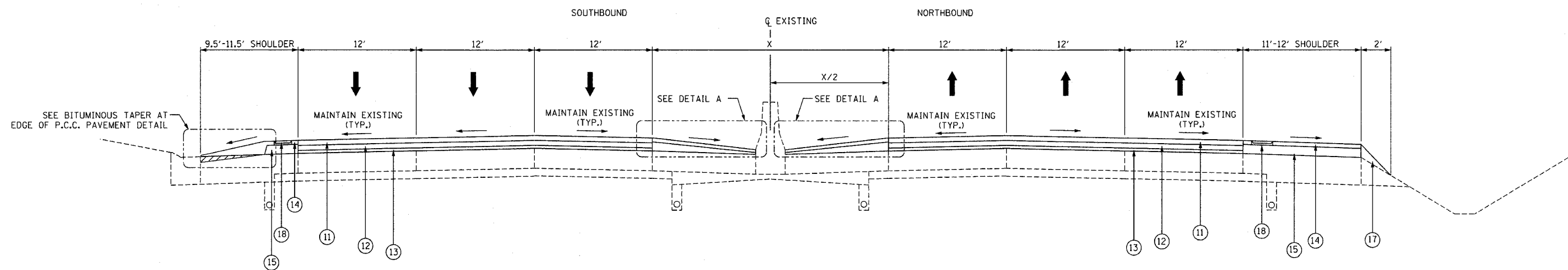
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	8
STA. 53+00 S		TO STA. 48+00 S		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

STA. 407+75.00 TO 408+25.00
 STA. 418+74.96 TO 422+75.00

MEDIAN WIDTHS	
LOCATION	X
26+67 TO 297+22.87	25'
297+22.87 TO 315+01.29	25' TO 18'
26+67 TO 297+22.87	18'



PROPOSED TYPICAL SECTION

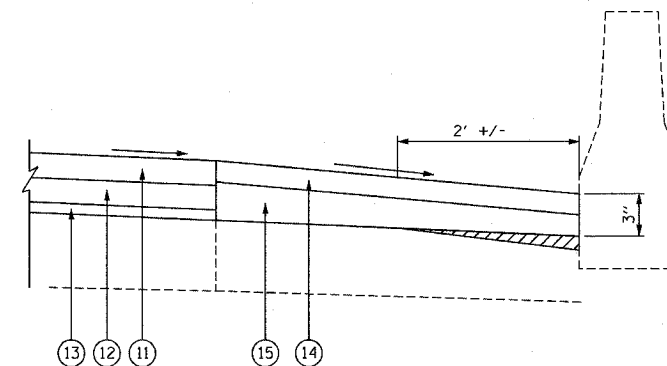
STA. 407+75.00 TO 408+25.00
 STA. 418+74.96 TO 422+75.00

EXISTING LEGEND:

- ① EXISTING CONCRETE BARRIER
- ② EXISTING GRANULAR SUB-BASE
- ③ EXISTING BITUMINOUS SHOULDERS
- ④ EXISTING P.C.C. PAVEMENT, 10"
- ⑤ EXISTING SUB-BASE
- ⑥ EXISTING CONC. GUTTER TYPE-E OR COMB. CONC. C. & G. TY. M-6.24
- ⑦ EXISTING PIPE UNDERDRAIN
- ⑧ EXISTING BITUMINOUS SHOULDER, 13"
- ⑨ LONGITUDINAL JOINT
- ⑩ BACKFILL FOR UNDERDRAIN
- Ⓐ EXISTING AGGREGATE SHOULDER

PROPOSED LEGEND:

- ⑪ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- ⑫ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- ⑬ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑭ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-3/4"
- ⑮ HOT-MIX ASPHALT BINDER COURSE, IL-17, N70, VARIES 2-1/4" TO 2-3/4"
- ⑯ PROPOSED BARRIER WALL REFLECTORS, TYPE A
- ⑰ PROPOSED AGGREGATE SHOULDER, TYPE B
- ⑱ PROPOSED RUMBLE STRIPS



DETAIL A
 N.T.S.

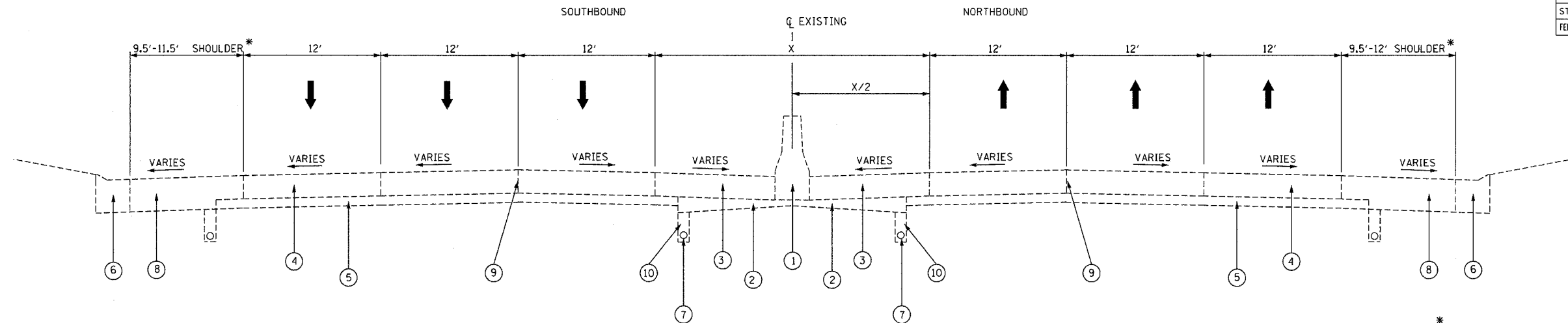
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING AND PROPOSED
 TYPICAL SECTIONS
 F.A.I. 94 (I-94)

SCALE: N.T.S.
 DATE: MAY 2007

DRAWN BY JW
 CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	9
STA. 83+05.24 S		TO STA. 62+40 S		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

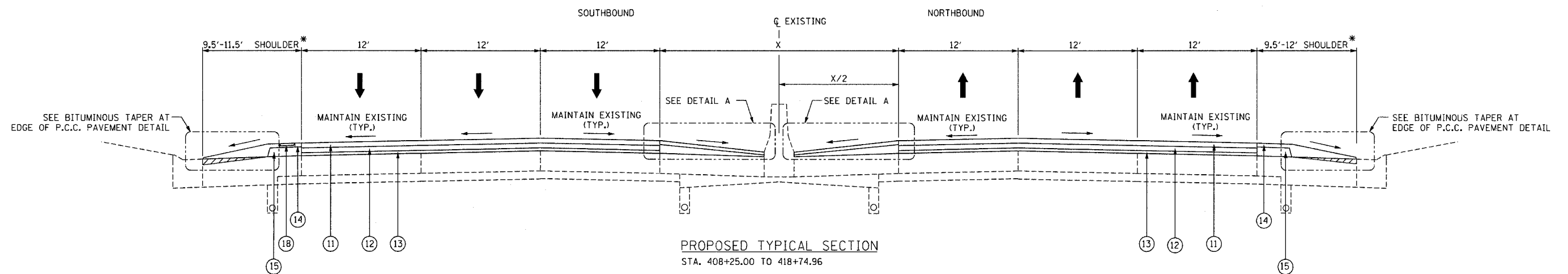


EXISTING TYPICAL SECTION
STA. 408+25.00 TO 418+74.96

MEDIAN WIDTHS	
LOCATION	X
26+67 TO 297+22.87	25'
297+22.87 TO 315+01.29	25' TO 18'
26+67 TO 297+22.87	18'

* UNDERPASS SHOULDER WIDTHS NOT INCLUDED

UNDERPASS SHOULDER WIDTHS		
LOCATION	WIDTH	
	NB	SB
WINNETKA RD	7.5'	8.5'



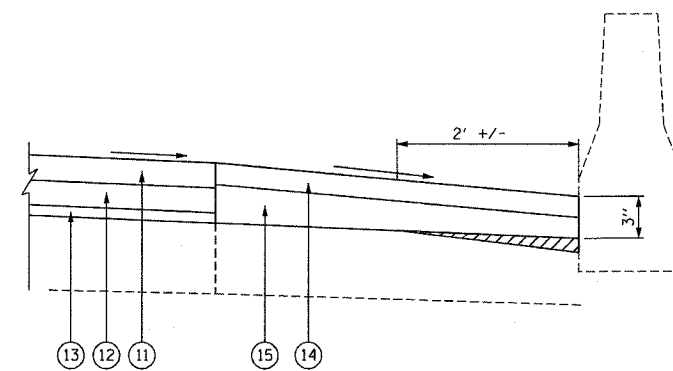
PROPOSED TYPICAL SECTION
STA. 408+25.00 TO 418+74.96

EXISTING LEGEND:

- ① EXISTING CONCRETE BARRIER
- ② EXISTING GRANULAR SUB-BASE
- ③ EXISTING BITUMINOUS SHOULDERS
- ④ EXISTING P.C.C. PAVEMENT, 10"
- ⑤ EXISTING SUB-BASE
- ⑥ EXISTING CONC. GUTTER TYPE-E OR COMB. CONC. C. & G. TY. M-6.24
- ⑦ EXISTING PIPE UNDERDRAIN
- ⑧ EXISTING BITUMINOUS SHOULDER, 13"
- ⑨ LONGITUDINAL JOINT
- ⑩ BACKFILL FOR UNDERDRAIN

PROPOSED LEGEND:

- ⑪ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- ⑫ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- ⑬ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑭ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-3/4"
- ⑮ HOT-MIX ASPHALT BINDER COURSE, IL-17, N70, VARIES 2-1/4" TO 2-3/4"
- ⑯ PROPOSED BARRIER WALL REFLECTORS, TYPE A
- ⑰ PROPOSED AGGREGATE SHOULDER, TYPE B
- ⑱ PROPOSED RUMBLE STRIPS



DETAIL A
N.T.S.

REVISIONS	
NAME	DATE

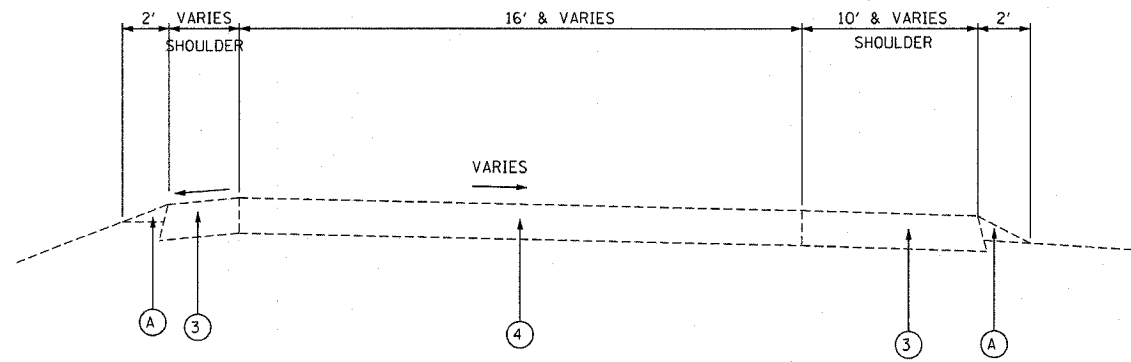
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING AND PROPOSED TYPICAL SECTIONS
F.A.I. 94 (I-94)

SCALE: N.T.S.
DATE: MAY 2007

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CHECKED BY

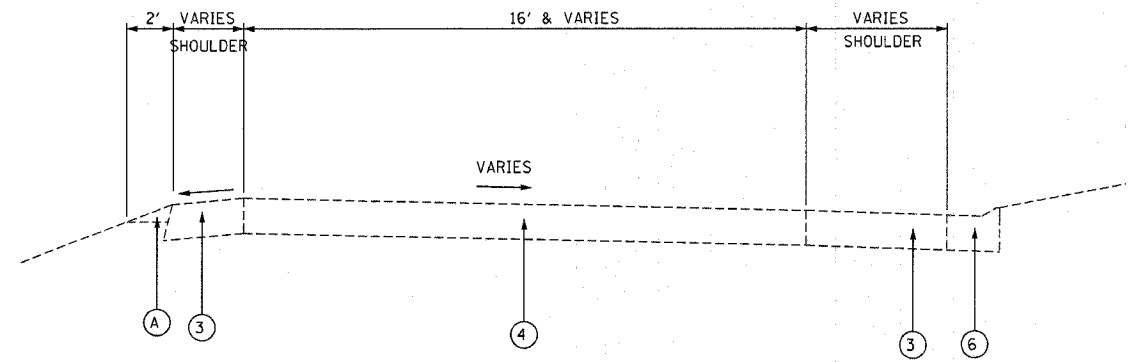
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



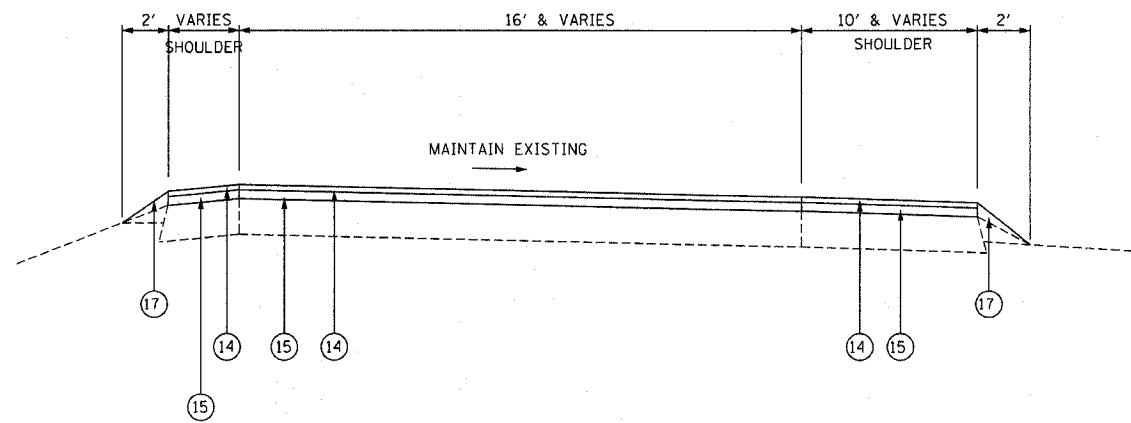
EXISTING TYPICAL SECTION AT RAMP

- NB LAKE AVE. RAMP
- NB WILLOW RD. RAMP
- NB & SB SKOKIE RD. RAMP
- NB & SB TOWER RD. RAMP
- NB & SB DUNDEE RD. RAMP
- NB & SB EDENS SPUR RAMP
- NB OLD ORCHARD RD. ENTRANCE RAMP (NORTH OF BRIDGE)
- SB WILLOW RD. ENTRANCE RAMP (NORTH OF BRIDGE)



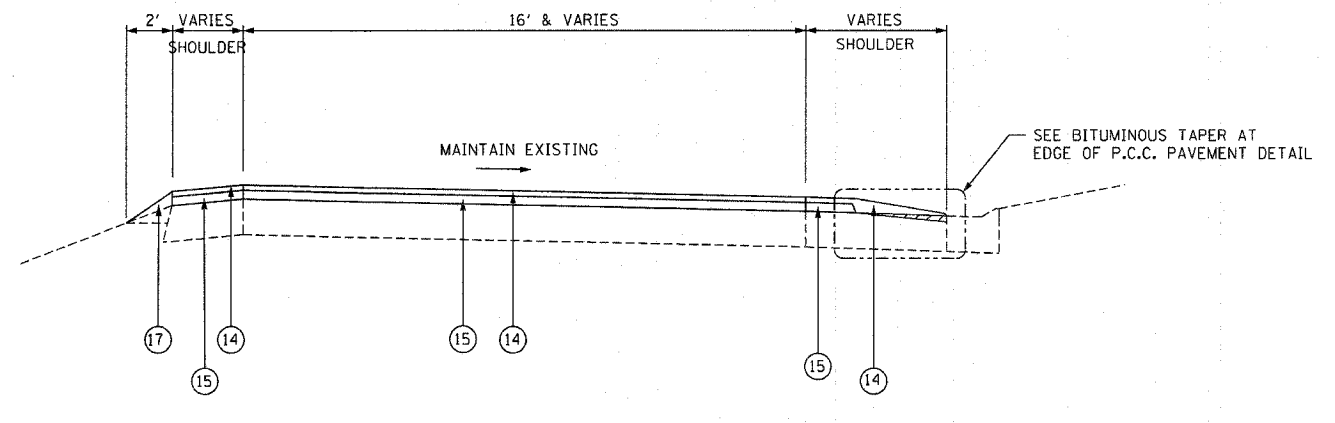
EXISTING TYPICAL SECTION AT RAMP

SB WILLOW RD. ENTRANCE RAMP (SOUTH OF BRIDGE)



PROPOSED TYPICAL SECTION AT RAMP

- NB LAKE AVE. RAMP
- NB WILLOW RD. RAMP
- NB & SB SKOKIE RD. RAMP
- NB & SB TOWER RD. RAMP
- NB & SB DUNDEE RD. RAMP
- NB & SB EDENS SPUR RAMP
- NB OLD ORCHARD RD. ENTRANCE RAMP
- SB WILLOW RD. ENTRANCE RAMP (NORTH OF BRIDGE)



PROPOSED TYPICAL SECTION AT RAMP

SB WILLOW RD. ENTRANCE RAMP (SOUTH OF BRIDGE)

EXISTING LEGEND:

- 1 EXISTING CONCRETE BARRIER
- 2 EXISTING GRANULAR SUB-BASE
- 3 EXISTING BITUMINOUS SHOULDERS
- 4 EXISTING P.C.C. PAVEMENT, 10"
- 5 EXISTING SUB-BASE
- 6 EXISTING CONC. GUTTER TYPE-E OR COMB. CONC. C. & G. TY. M-6.24
- 7 EXISTING PIPE UNDERDRAIN
- 8 EXISTING BITUMINOUS SHOULDER, 13"
- 9 LONGITUDINAL JOINT
- 10 BACKFILL FOR UNDERDRAIN
- A EXISTING AGGREGATE SHOULDER

PROPOSED LEGEND:

- 11 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- 12 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- 13 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 14 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-3/4"
- 15 HOT-MIX ASPHALT BINDER COURSE, IL-17, N70, VARIES 2-1/4" TO 2-3/4"
- 16 PROPOSED BARRIER WALL REFLECTORS, TYPE A
- 17 PROPOSED AGGREGATE SHOULDER, TYPE B

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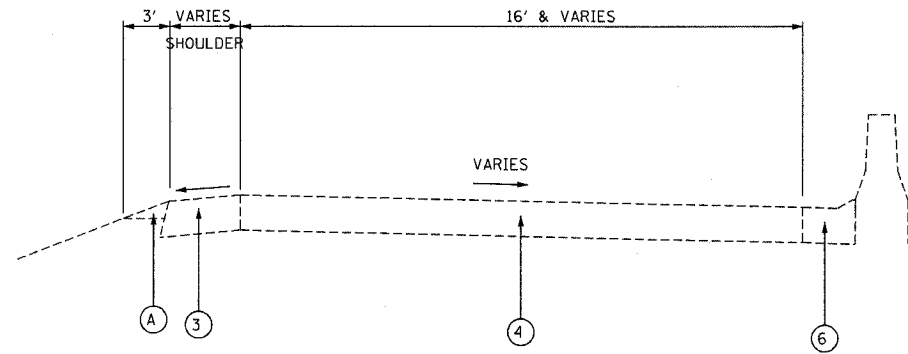
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING AND PROPOSED
 TYPICAL SECTIONS
 F.A.I. 94 (I-94)

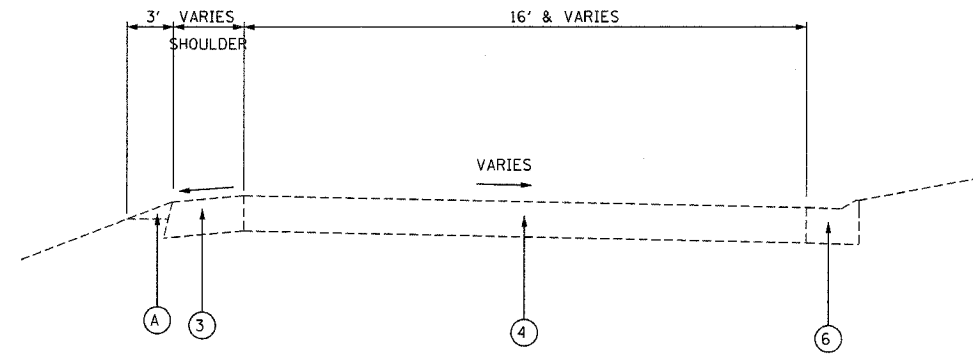
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 DATE: MAY 2007

DRAWN BY JW
 CHECKED BY

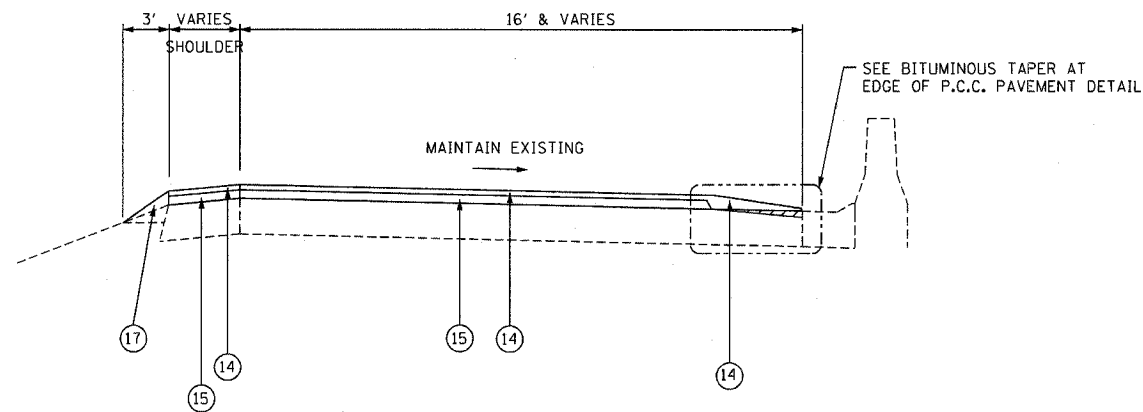
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	11
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



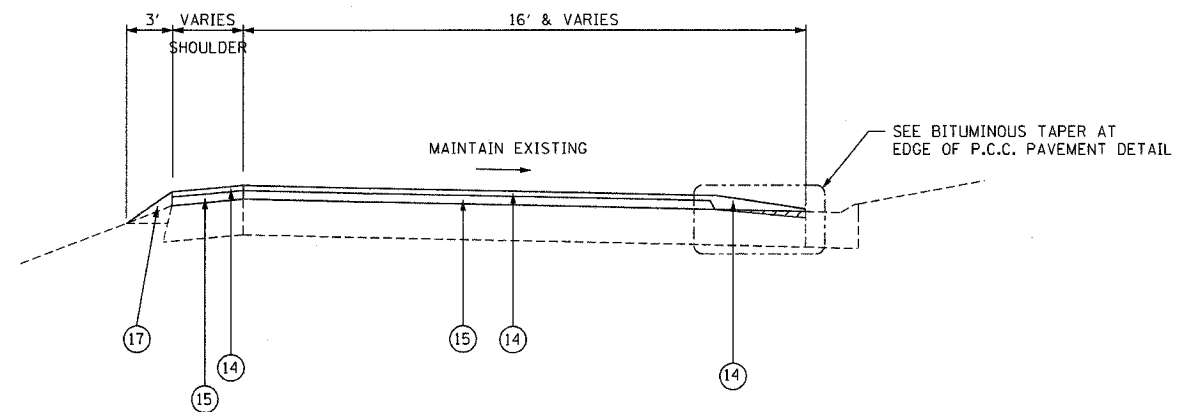
EXISTING TYPICAL SECTION AT RAMPS
SB LAKE-COOK RD. ENTRANCE RAMP



EXISTING TYPICAL SECTION AT RAMPS
SB LAKE AVE. ENTRANCE RAMP (SOUTH OF BRIDGE)



PROPOSED TYPICAL SECTION AT RAMPS
SB LAKE-COOK RD. ENTRANCE RAMP



PROPOSED TYPICAL SECTION AT RAMPS
SB LAKE AVE. ENTRANCE RAMP (SOUTH OF BRIDGE)

EXISTING LEGEND:

- 1 EXISTING CONCRETE BARRIER
- 2 EXISTING GRANULAR SUB-BASE
- 3 EXISTING BITUMINOUS SHOULDERS
- 4 EXISTING P.C.C. PAVEMENT, 10"
- 5 EXISTING SUB-BASE
- 6 EXISTING CONC. GUTTER TYPE-E OR COMB. CONC. C. & G. TY. M-6.24
- 7 EXISTING PIPE UNDERDRAIN
- 8 EXISTING BITUMINOUS SHOULDER, 13"
- 9 LONGITUDINAL JOINT
- 10 BACKFILL FOR UNDERDRAIN
- A EXISTING AGGREGATE SHOULDER

PROPOSED LEGEND:

- 11 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- 12 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 1-3/4"
- 13 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 14 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-3/4"
- 15 HOT-MIX ASPHALT BINDER COURSE, IL-17, N70, VARIES 2-1/4" TO 2-3/4"
- 16 PROPOSED BARRIER WALL REFLECTORS, TYPE A
- 17 PROPOSED AGGREGATE SHOULDER, TYPE B

PLOT DATE = 5/22/2007
FILE NAME = #FILE19
PLOT SCALE = #SCALE9
USER NAME = DBFGJBT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING AND PROPOSED
TYPICAL SECTIONS
F.A.I. 94 (I-94)

SCALE: N.T.S.
DATE: MAY 2007

DRAWN BY JW
CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2003-071 RS	COOK	91	12
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* FAI 94 / FAP 346 D-91-174-03				

NORTH BOUND I 94 LEVELING BINDER AND BASE SUGGESTED PAVING SEQUENCE											
12' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 DAY-TIME		11.5' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		11' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		10.5' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		10.0' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		EXISTING SHOULDER IS LESS THAN 10.0' WIDE PAVE LAST DURING OPERATION 2 NIGHT-TIME	
Edge of MOT Traffic Lane is 2' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is 1.5' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is 1' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is 0.5' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is at the Edge of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is Inside of I-94 Lane 2	FEET
				306+00 to 316+00	1000					297+00 to 306+00	900
		322+25 to 376+00	5375							316+00 to 322+25	625
387+75 to 407+00	1925			423+23 to 500+00	7677					376+00 to 387+75	1175
				508+00 to 577+35	6835					407+00 to 423+23	1623
577+35 to 603+00	2565									500+00 to 506+00	800
		603+00 to 647+00	4400								
										647+00 to 650+69	369
TOTALS FOR 62636 NORTH BOUND	4490		9775		15612		0		0		5492

SOUTH BOUND I 94 LEVELING BINDER AND BASE SUGGESTED PAVING SEQUENCE											
12' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 DAY-TIME		11.5' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		11' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		10.5' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		10.0' WIDE EXISTING SHOULDER PAVE DURING OPERATION 2 NIGHT-TIME		EXISTING SHOULDER IS LESS PAVE LAST DURING OPERATION 2 NIGHT-TIME	
Edge of MOT Traffic Lane is 2' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is 1.5' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is 1' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is 0.5' outside of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is at the Edge of I-94 Lane 2	FEET	Edge of MOT Traffic Lane is Inside of I-94 Lane 2	FEET
				321+88 TO 376+00	5412					297+00 TO 321+88	2458
		397+88 TO 406+00	812	384+00 TO 397+88	1388					376+00 TO 384+00	800
		449+00 TO 502+00	5300							406+00 TO 449+00	4300
										502+00 TO 507+00	500
		548+00 TO 595+80	4780					507+00 TO 548+00	4100		
				585+80 TO 649+30	5350						
										649+30 TO 650+69	139
TOTALS FOR 62636 SOUTH BOUND	0		10892		12150		0		4100		8227

GENERAL NOTES - TRAFFIC CONTROL

- THE FOLLOWING STANDARDS WILL BE USED PRIOR TO THE CONSTRUCTION AREA. ALL WORK TO BE PERFORMED USING IDOT STANDARD 701400 AND THEN STANDARD 701401 FOLLOWED BY A LANE WIDTH REDUCTION FOR TWO LANES FROM 12' TO 11' USING A 35:1 TAPER. THE DISTRICT ONE "TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE" WILL BE USED FOR LANE SHIFTS IN THE CONSTRUCTION ZONE.
- LANE CLOSURES WILL BE ALLOWED AS DETAILED IN THE SPECIAL PROVISIONS FOR "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC."
- AT THE END OF EACH SHIFT THE CONTRACTOR SHALL SWEEP AND REMOVE DEBRIS, PLACE TEMPORARY PAVEMENT MARKING AS NECESSARY AND REMOVE TRAFFIC CONTROL.
- CREWS MAY WORK IN THE NORTHBOUND AND SOUTHBOUND LANES SIMULTANEOUSLY
- SEE IDOT STANDARDS 701400, 701401 AND "TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE" FOR BARRICADE PLACEMENT, SIGNAGE, AND PAVEMENT MARKING REQUIREMENTS.

TEMPORARY PAVEMENT MARKING SCHEDULE						
ITEM	UNIT	STAGE I	STAGE II	STAGE III	TOTAL	
78300100 PAVEMENT MARKING REMOVAL	SQ FT	30954	23584	7370	61908	
78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EA	1769	3425	0	5193	
70300220 TEMPORARY PAVEMENT MARKING, 4"	FT	159192	422344	141504	723040	
70300230 TEMPORARY PAVEMENT MARKING, 5"	FT	17688	35373	17688	70749	
70301000 WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	60434	155520	54538	270492	
78008210 POLYUREA PAVEMENT MARKING, TYPE I, 4" LINE	FT	141504			141504	
78008220 POLYUREA PAVEMENT MARKING, TYPE I, 5" LINE	FT	35376			35376	
78008240 POLYUREA PAVEMENT MARKING, TYPE I, 8" LINE	FT	6384			6384	
78008250 POLYUREA PAVEMENT MARKING, TYPE I, 12" LINE	FT	1654			1654	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SUGGESTED TRAFFIC CONTROL AND PROTECTION F.A.I. 94 EDENS EXPRESSWAY
NAME	DATE	
		SCALE: DRAWN BY DCS DATE: JUNE 2007 CHECKED BY

Edens I 94 Resurfacing Project

PLOT DATE = 06/18/2007
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 PLOT SCALE = #SCALE#
 USER NAME = #USER#

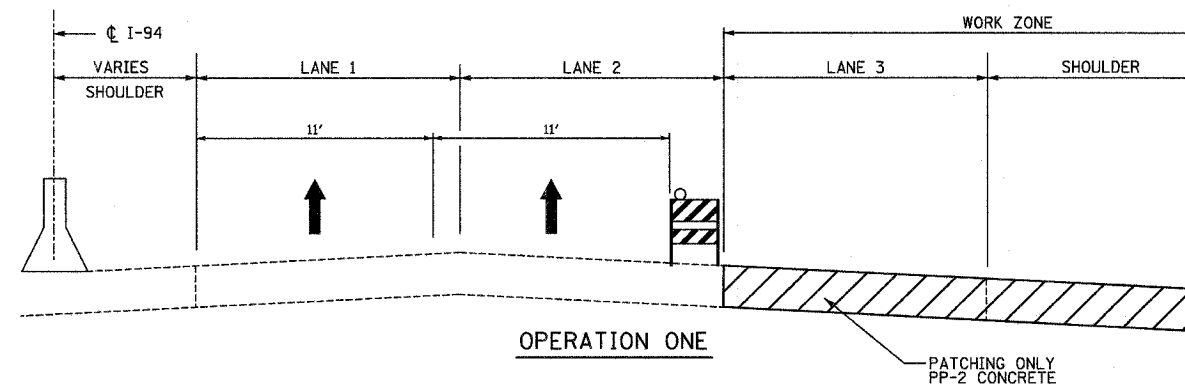
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	13
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT

STAGE I: 2007

WEEKDAY OPERATIONS:

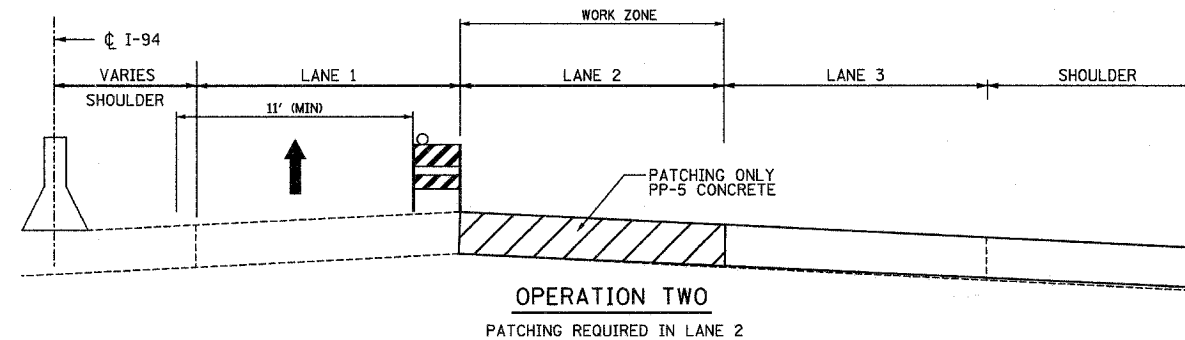
WORK SEQUENCE:

- APPLY TEMPORARY PAVEMENT MARKING LANES 1 & 2
(LANE CLOSURES ALLOWED AS DETAILED IN THE SPECIAL PROVISIONS)
- COMPLETE PATCH OPERATIONS LANE 3 AND OUTSIDE SHOULDER WHERE SPECIFIED
- COMPLETE JOINT REPAIR BETWEEN LANE 3 AND SHOULDER AT LOCATIONS SPECIFIED IN THE SCHEDULE
- REMOVE TEMPORARY PAVEMENT MARKING LANES 1 & 2



WEEKEND OPERATIONS:

- APPLY TEMPORARY PAVEMENT MARKING LANE 1
(LANE CLOSURES ALLOWED AS DETAILED IN THE SPECIAL PROVISIONS)
- COMPLETE PATCH OPERATIONS LANE 2 USING PP-5 CONCRETE
- REMOVE TEMPORARY PAVEMENT MARKING LANES 1



PLOT DATE = 06/18/2007
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = DGP/CHP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 N.T.S. TRAFFIC CONTROL
 AND PROTECTION
 F.A.I. 94 EDENS EXPRESSWAY
 TYPICAL SECTIONS PER SEGMENT

SCALE:
 DATE JUNE 2007

DRAWN BY
 CHECKED BY

Edens I 94 Resurfacing Project

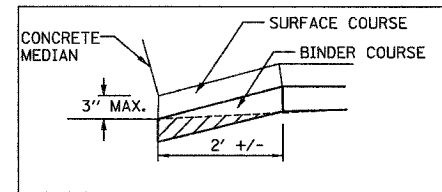
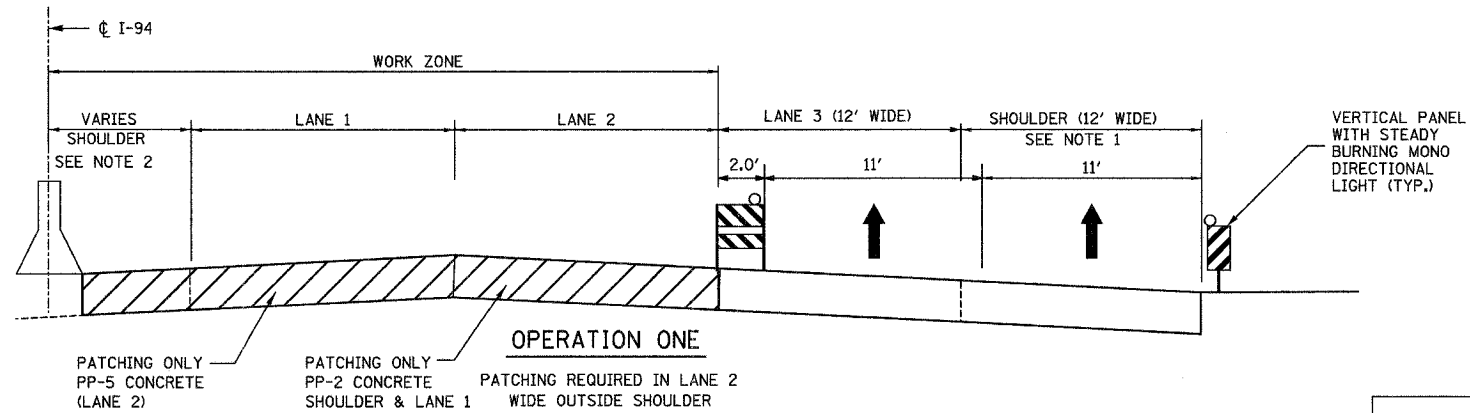
STAGE II: 2008

OPERATION ONE

NOTE 1:
FOR LANE 2 PATCHING:
WHERE OUTSIDE SHOULDER IS AT LEAST 12':
PP2 CONCRETE
TRAFFIC ON LANE 3 AND SHOULDER
SHOULDER TRAFFIC RESTRICTED TO PASSENGER CARS ONLY

WHERE OUTSIDE SHOULDER IS LESS THAN 12':
PP2 CONCRETE
TWO 11' LANES OF TRAFFIC, USING LANE 2 AS NEEDED
SHOULDER TRAFFIC RESTRICTED TO PASSENGER CARS ONLY

NOTE 2: INSTALL PROPOSED CATCH BASINS AS SHOWN ON THE PLANS

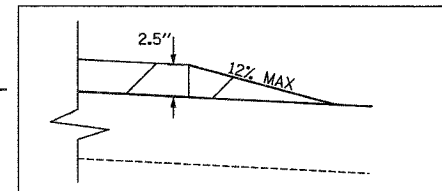
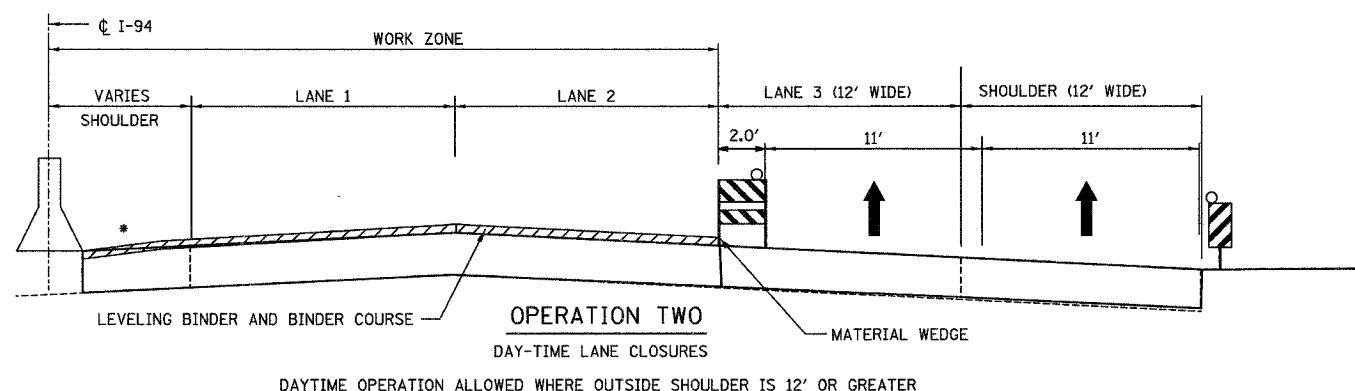


MEDIAN BARRIER DETAIL

OPERATION TWO

ADJUST STRUCTURE FRAMES AND LIDS
MILL INSIDE SHOULDER
APPLY LEVELING BINDER AND BINDER COURSE TO
LANE 1 AND LANE 2.

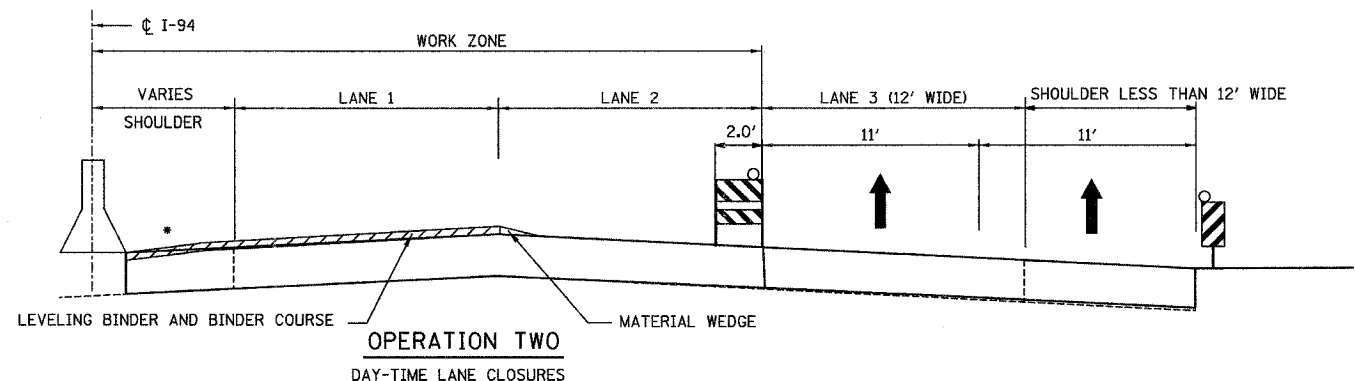
NB = 4,490 LN FT
SB = 0 LN FT



WEDGE DETAIL

DAYTIME OPERATION ALLOWED WHERE OUTSIDE SHOULDER IS 12' OR GREATER

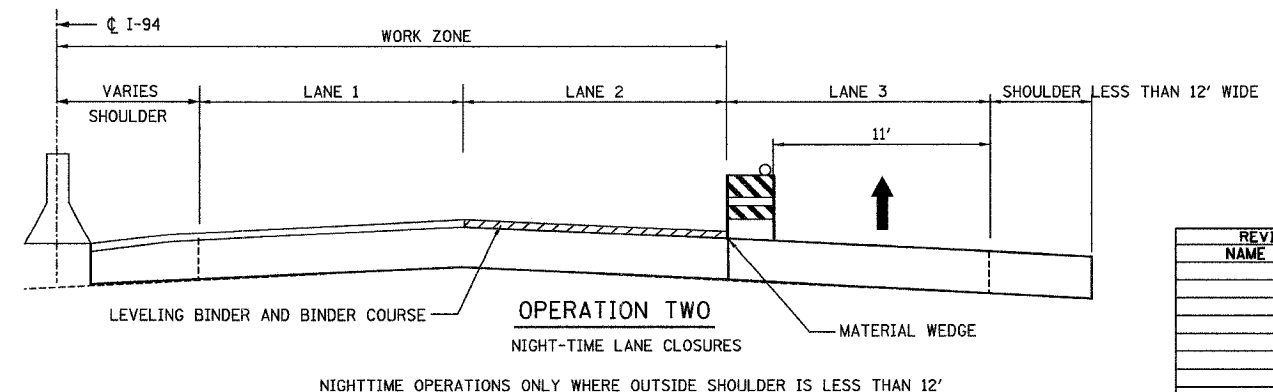
NB = 30,879 LN FT
SB = 35,369 LN FT



NOTE:
CONTRACTOR TO FOLLOW STANDARD SPECIFICATION 603.07 "PROTECTION UNDER TRAFFIC" FOR FRAME AND LID ADJUSTMENT BEFORE LANE 1 CAN BE OPENED TO TRAFFIC

DAYTIME OPERATION ALLOWED WHERE THE EXISTING OUTSIDE SHOULDER IS LESS THAN 12' WIDE.

NB = 30,879 LN FT
SB = 35,369 LN FT



NIGHTTIME OPERATIONS ONLY WHERE OUTSIDE SHOULDER IS LESS THAN 12'

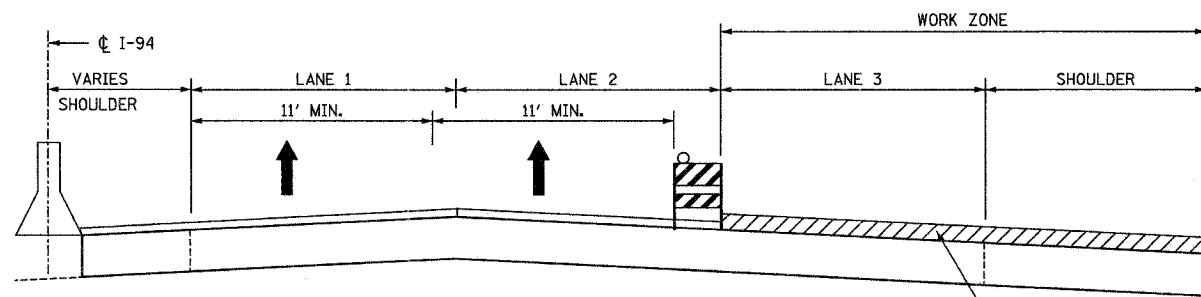
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION
F.A.I. 94 EDENS EXPRESSWAY
TYPICAL SECTIONS PER SEGMENT
SCALE: N.T.S.
DATE: JUNE 2007
DRAWN BY: _____
CHECKED BY: _____

PLOT DATE = 06/18/2007
PLOT SCALE = 1/8" = 1'-0"
USER NAME =

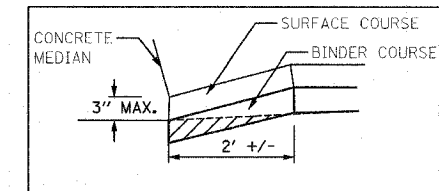
STAGE III: 2008

- WORK SEQUENCE:**
- APPLY TEMPORARY PAVEMENT MARKING LANES 1 & 2
 - MILL SHOULDER IN CURB AND GUTTER AREAS
 - ADJUST STRUCTURE FRAMES AND LIDS
 - APPLY LEVELING BINDER, BINDER COURSE & SURFACE COURSE
 - INSTALL RUMBLE STRIPS
 - APPLY PERMANENT PAVEMENT MARKING FOR OUTSIDE EOP AND SHOULDER

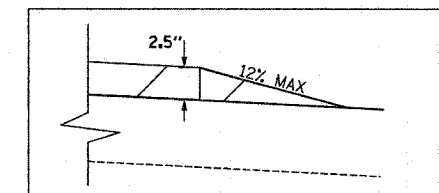


DAY OPERATION

LEVELING BINDER, BINDER COURSE, AND SURFACE COURSE



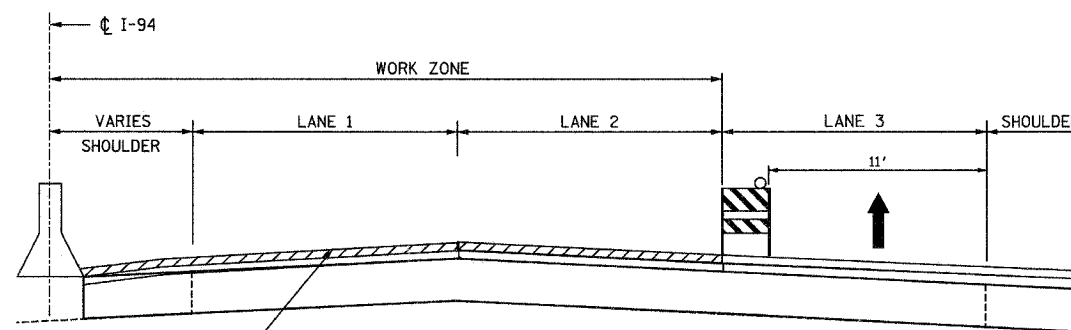
MEDIAN BARRIER DETAIL



WEDGE DETAIL

STAGE IV: 2008

- APPLY SURFACE COURSE
- INSTALL RUMBLE STRIPS
- APPLY PAVEMENT MARKING
- APPLY RAISED REFLECTIVE PAVEMENT MARKERS



NIGHT OPERATION

NOTE:
CONTRACTOR TO FOLLOW STANDARD SPECIFICATION 603.07 "PROTECTION UNDER TRAFFIC" FOR FRAME AND LID ADJUSTMENT BEFORE LANE 1 CAN BE OPENED TO TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION
F.A.I. 94 EDENS EXPRESSWAY
TYPICAL SECTIONS PER SEGMENT

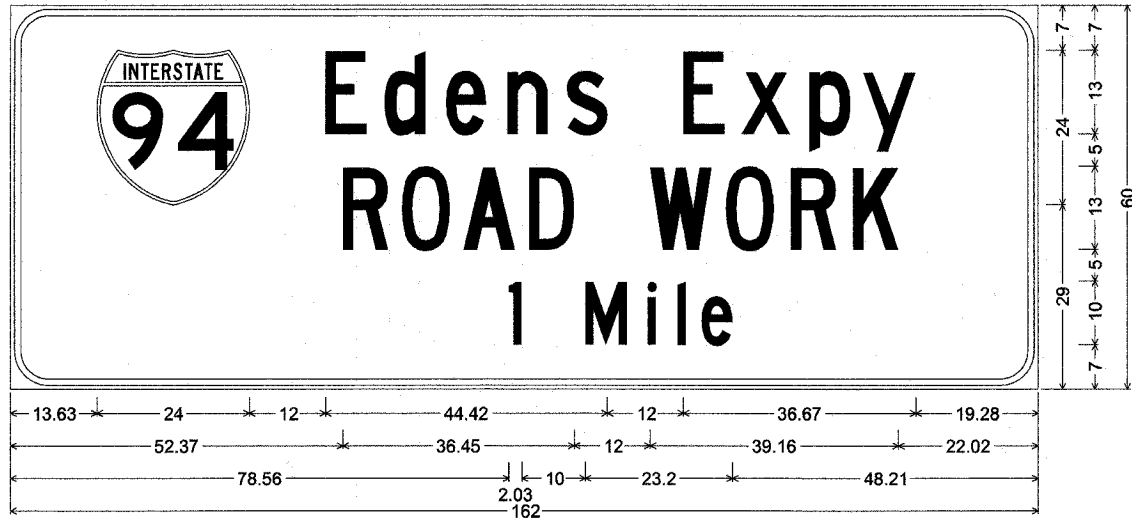
SCALE: N.T.S.
DATE: JUNE 2007

DRAWN BY
CHECKED BY

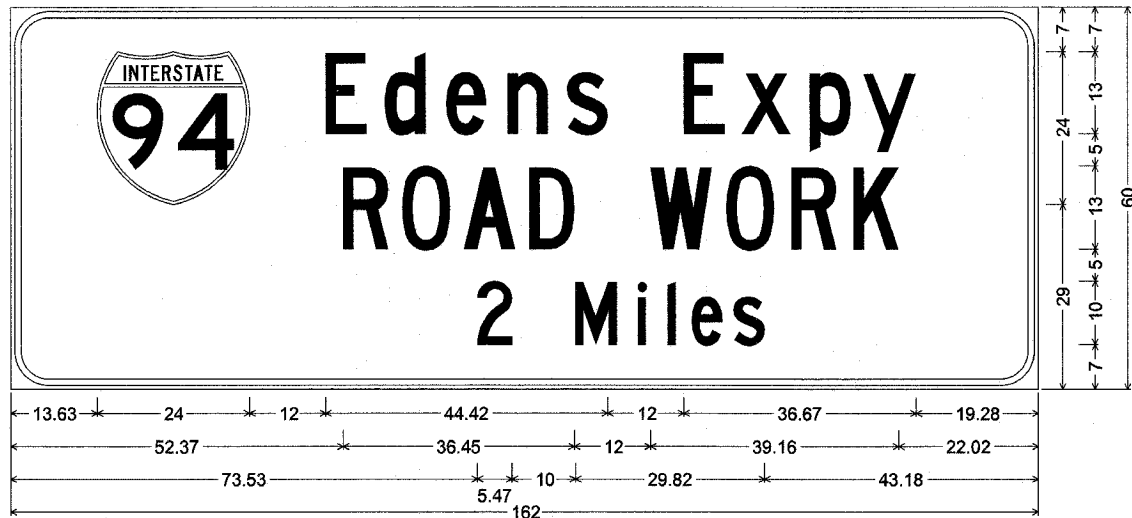
Edens I 94 Resurfacing Project

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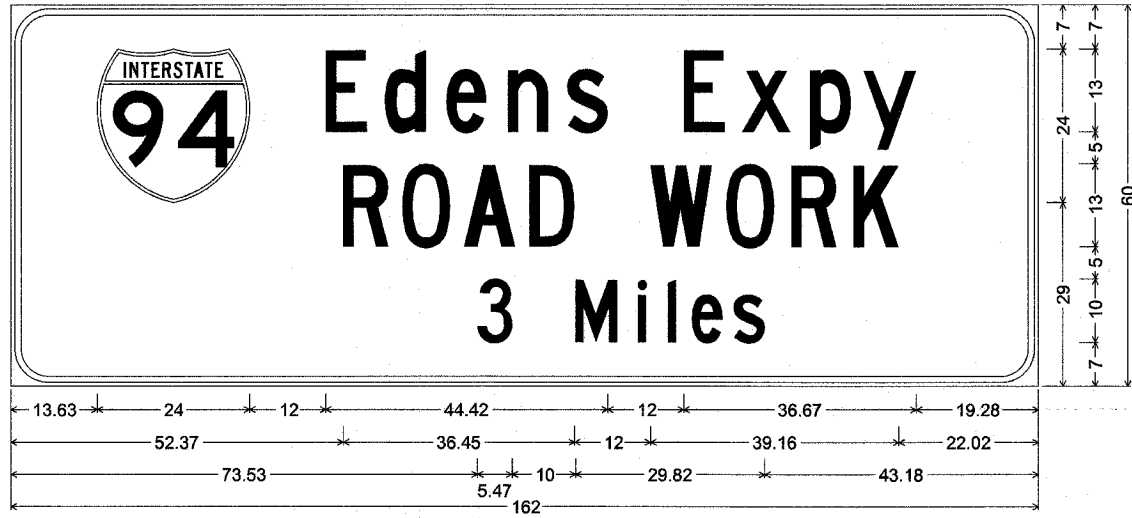
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	15A
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



6.00" Radius, 1.00" Border, 0.63" Indent, Black on Orange;
 [Edens] C; [Expy] C; [ROAD] C; [WORK] C; [1 Mile] C;



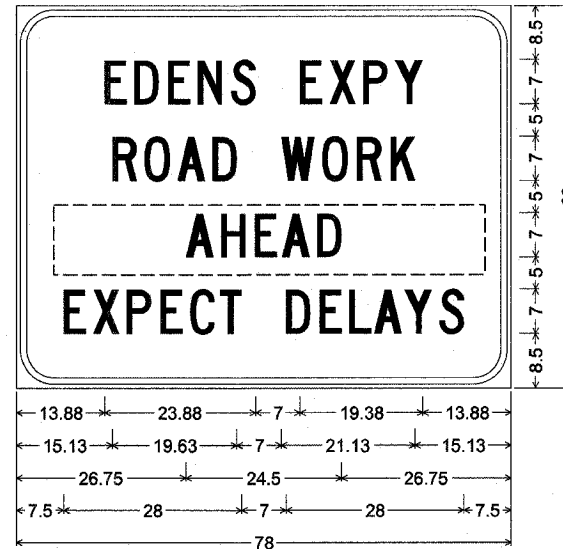
6.00" Radius, 1.00" Border, 0.63" Indent, Black on Orange;
 [Edens] C; [Expy] C; [ROAD] C; [WORK] C; [2 Miles] C;



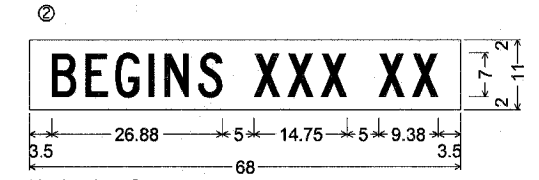
6.00" Radius, 1.00" Border, 0.63" Indent, Black on Orange;
 [Edens] C; [Expy] C; [ROAD] C; [WORK] C; [3 Miles] C;



6.00" Radius, 1.00" Border, 0.63" Indent, White on Green;
 [Skokie] E Mod; [Rd] E Mod; [EXIT] E; [AHEAD] E;



6.00" Radius, 1.00" Border, 0.63" Indent, Black on Orange;
 [EDENS EXPY] C; [ROAD WORK] C; [AHEAD] C;
 [EXPECT DELAYS] C;



No border, Orange;
 [BEGINS] Black C; [XXX] Black C;
 [XX] Black C;

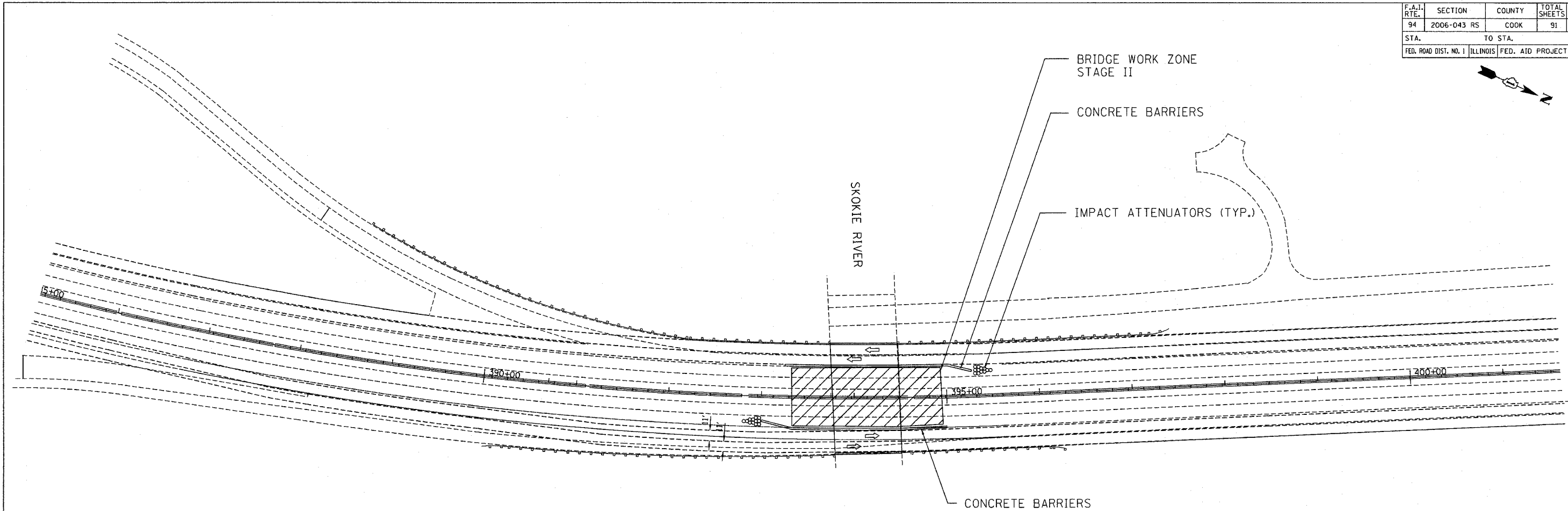
- NOTES:
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
 3. ERECT SIGN 1 WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
 6. ONE SIGN ASSEMBLY EQUALS 37.7 SQ. FT.
 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

- NOTES:
- THE FINAL SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 ADVANCE WARNING SIGNS WILL BE PLACED ON THE KENNEDY EXPRESSWAY.
 ALL SIGNS WILL BE MOUNTED AT A MINIMUM HEIGHT OF 7' ABOVE THE ROADWAY.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TEMPROARY INFORMATION SIGNING

SCALE: DATE JUNE 2007 DRAWN BY GS CHECKED BY DMP

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 R5	COOK	91	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LANE WIDTHS DURING CONSTRUCTION WILL BE 11' WIDE
 THE LANES WILL BE TRANSITIONED ON THE ROADWAY
 SECTION SO THEY LINE UP WITH THE CONSTRUCTION
 LANES ON THE BRIDGES.

TYPICAL ROADWAY
MAINTENANCE OF TRAFFIC DETAIL
AT BRIDGE WORK ZONES
STAGE II

PLOT DATE = 5/22/2007
 FILE NAME = 042707
 PLOT SCALE = %SCALE
 USER NAME = default

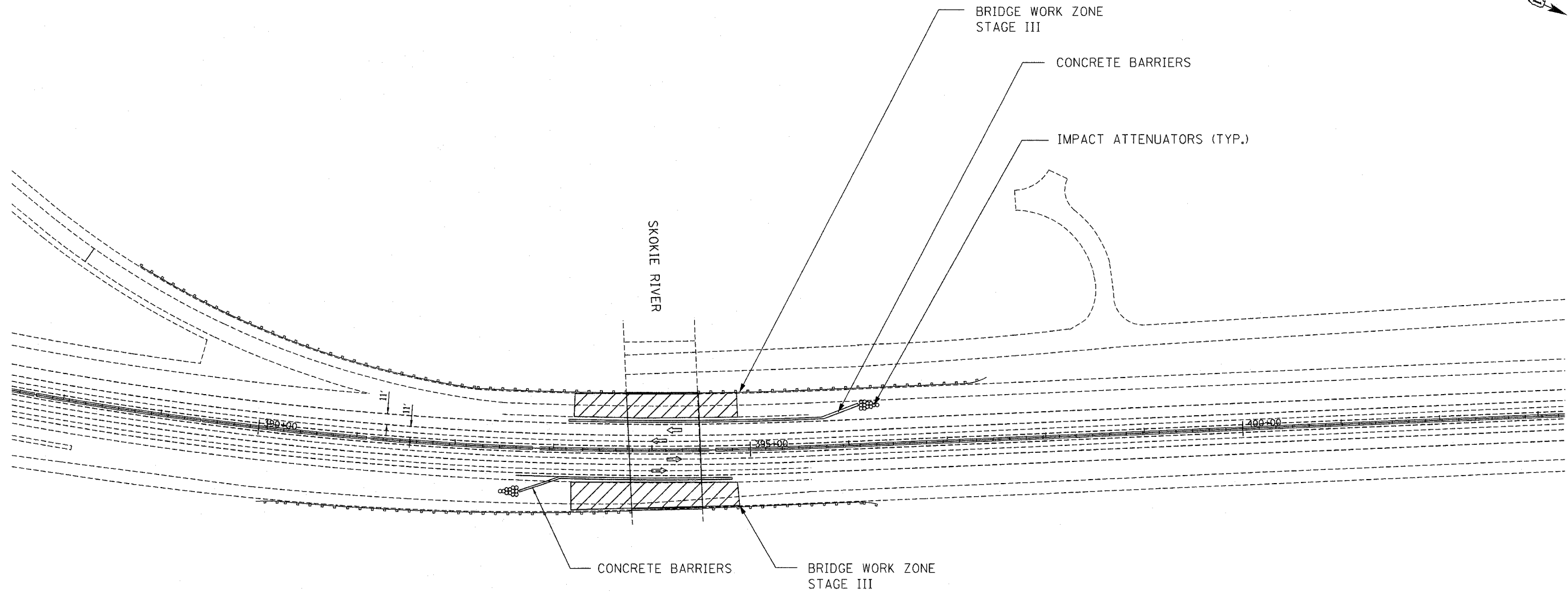
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
 AT
 SKOKIE BRIDGE

SCALE: N.T.S. DRAWN BY: GJS
 DATE: MAY 2007 CHECKED BY: LB

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 RS	COOK	91	17
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



LANE WIDTHS DURING CONSTRUCTION WILL BE 11' WIDE
 THE LANES WILL BE TRANSITIONED ON THE ROADWAY
 SECTION SO THEY LINE UP WITH THE CONSTRUCTION
 LANES ON THE BRIDGES.

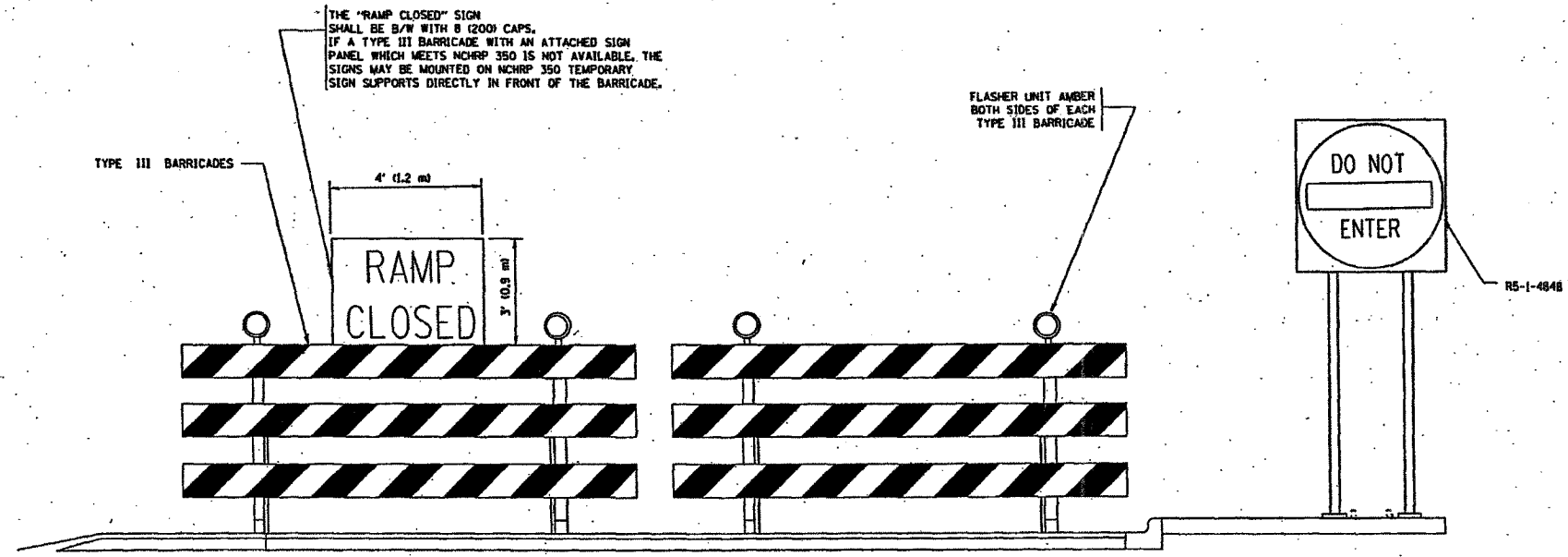
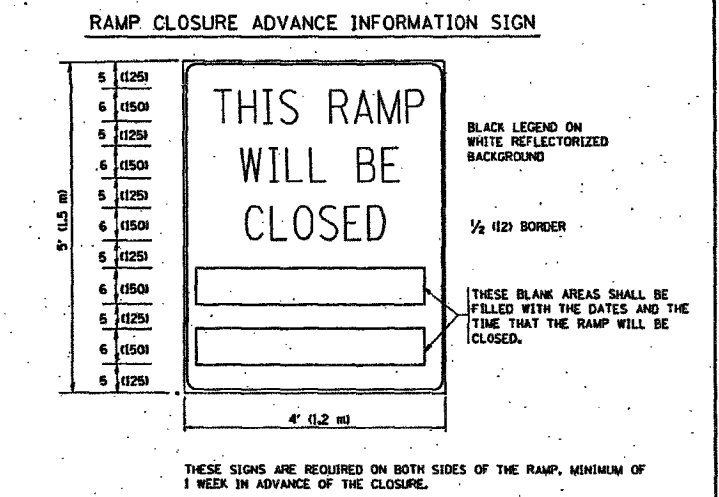
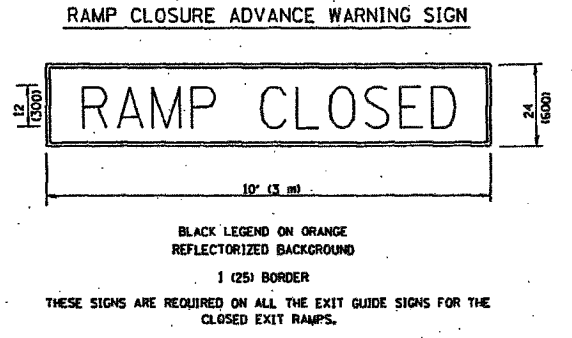
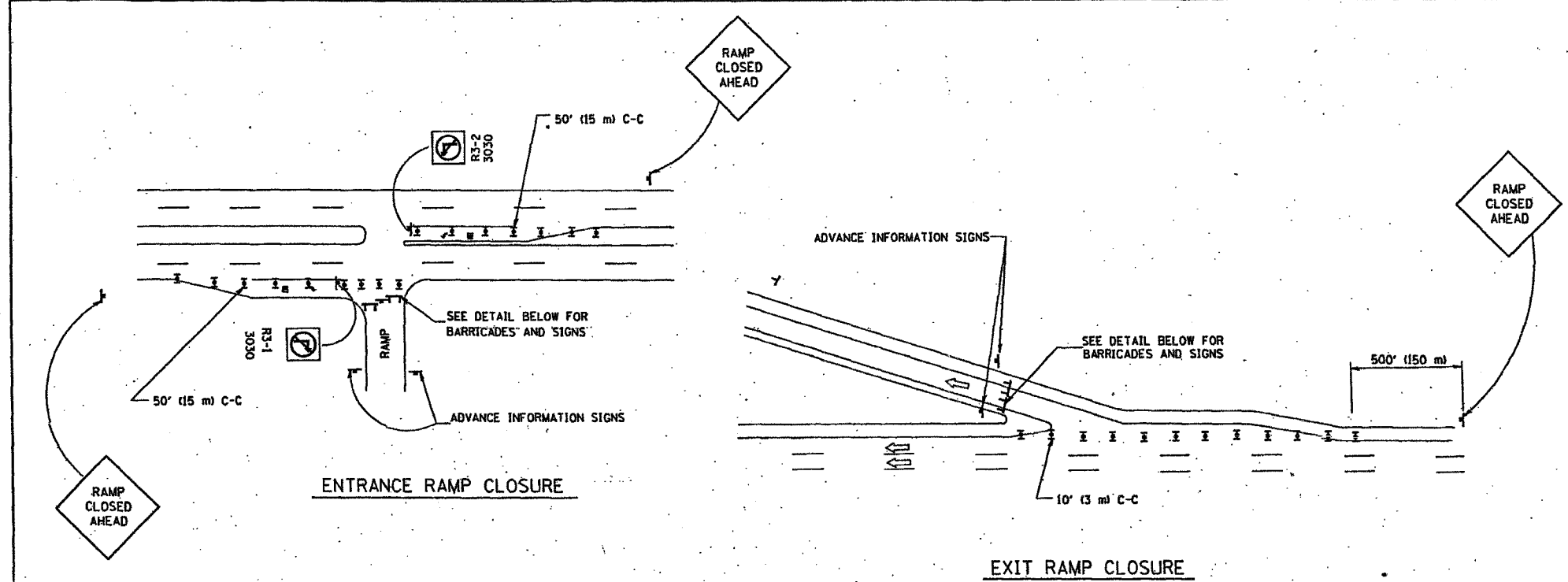
TYPICAL ROADWAY
MAINTENANCE OF TRAFFIC DETAIL
AT BRIDGE WORK ZONES
STAGE III

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 AT
 SKOKIE BRIDGE
 SCALE: N.T.S.
 DATE: MAY 2007
 DRAWN BY: GJS
 CHECKED BY: LB

PLOT DATE = 5/22/2007
 FILE NAME = P171717
 PLOT SCALE = 1"=50'
 USER NAME = dbfouf

CONTRACT NO. 62636			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
94	2008-043 RS	COOK	91 18
STA.	TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



- SYMBOLS**
- ▬ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ▬ TYPE III BARRICADE WITH FLASHING LIGHT

- GENERAL NOTES:**
- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
 - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
 - A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
 - ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
 - THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
 - AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
 - THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

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

REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
JAF	2/06
SPB	1/07
Revise devices to meet NCHRP 350	4/03

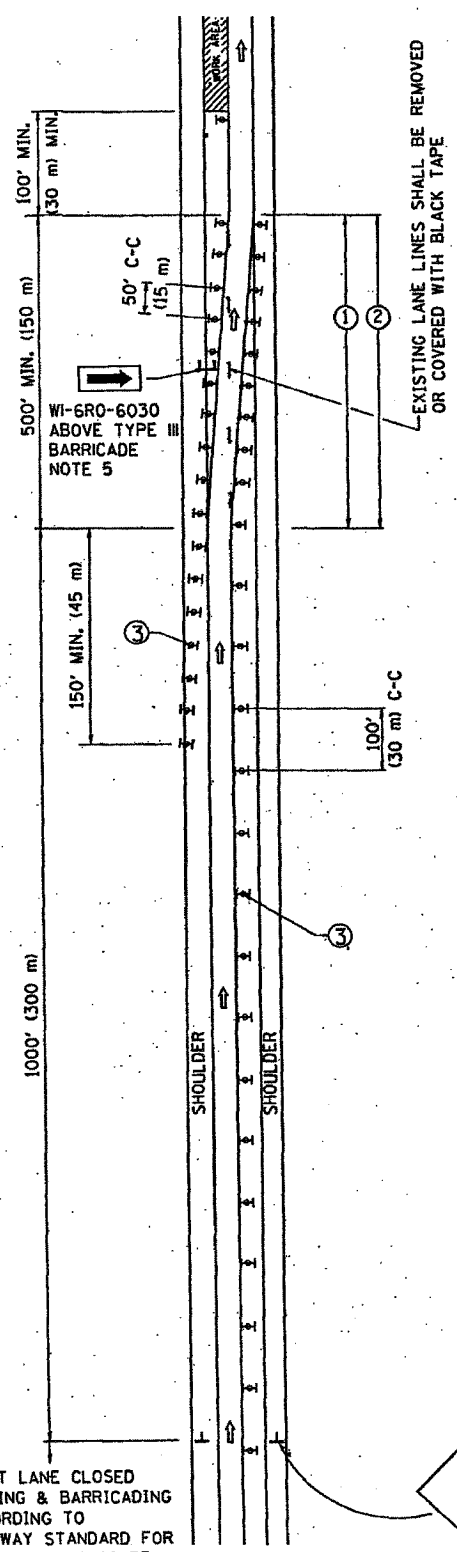
ILLINOIS DEPARTMENT OF TRANSPORTATION
FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS

SCALE: DATE: 1/4/2007
 DRAWN BY: CHECKED BY: TC-8
 REVISION DATE: 01/01/07

PLOT DATE: 1/4/2007
 FILE NAME: 2008-043 RS.dwg
 USER: JAF
 PLOTTER: HPGL

CONTRACT NO. 62636				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 RS	COOK	91	19
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

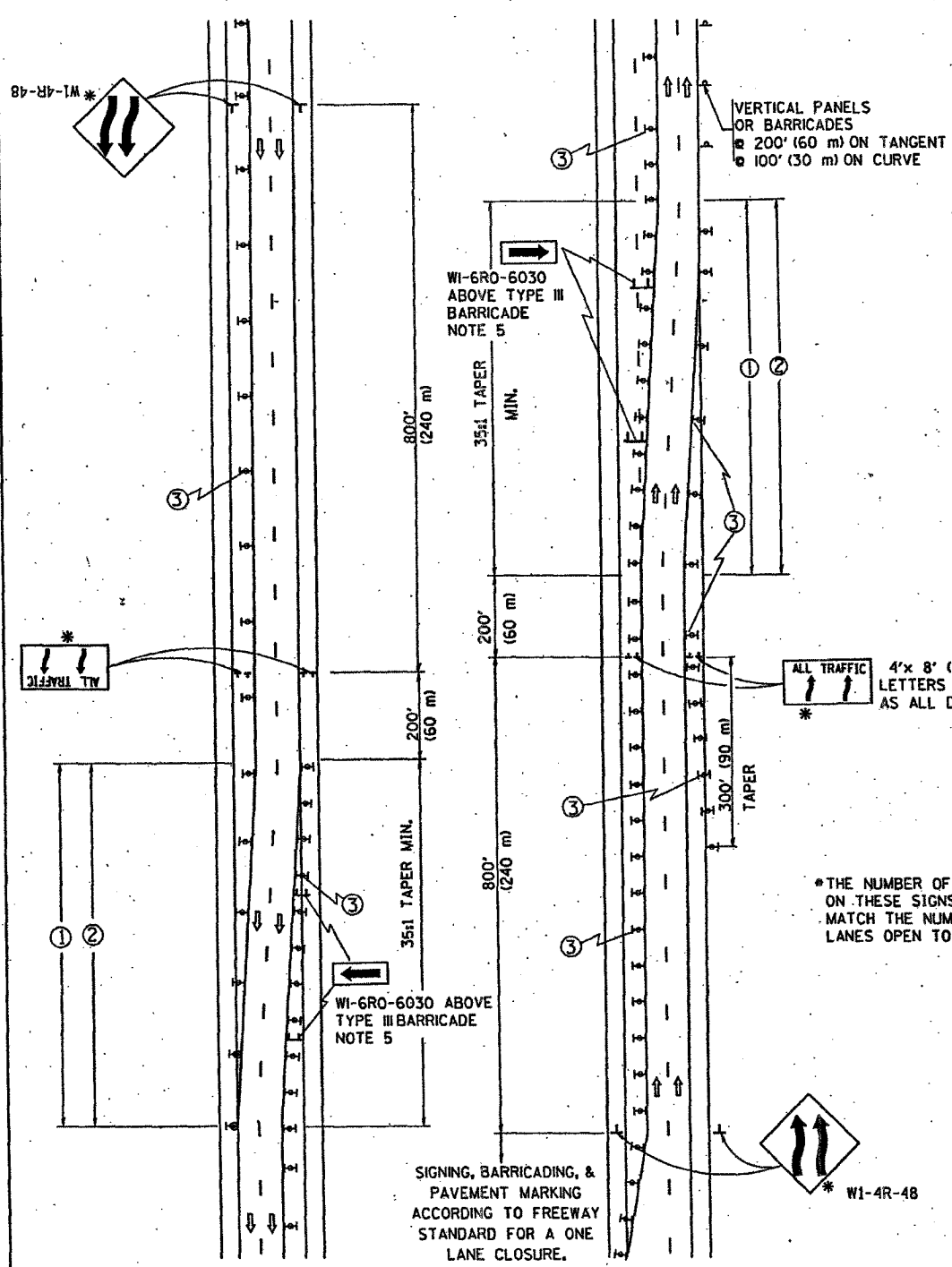
SINGLE LANE WEAVE



RIGHT LANE CLOSED SIGNING & BARRICADING ACCORDING TO FREEWAY STANDARD FOR A ONE LANE CLOSURE

W1-4R-48

MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊞ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/96
JAF	4/03
JAF	2/06
SPB	1/07

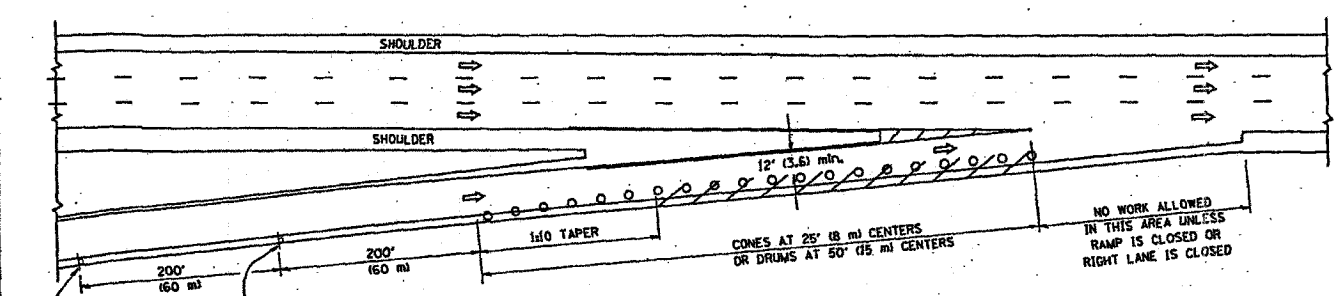
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS
FOR FREEWAY
SINGLE & MULTI-LANE WEAVE

SCALE: DATE: 4/2007
DRAWN BY R.H.
CHECKED BY
TC-9
REVISION DATE: 01/01/07

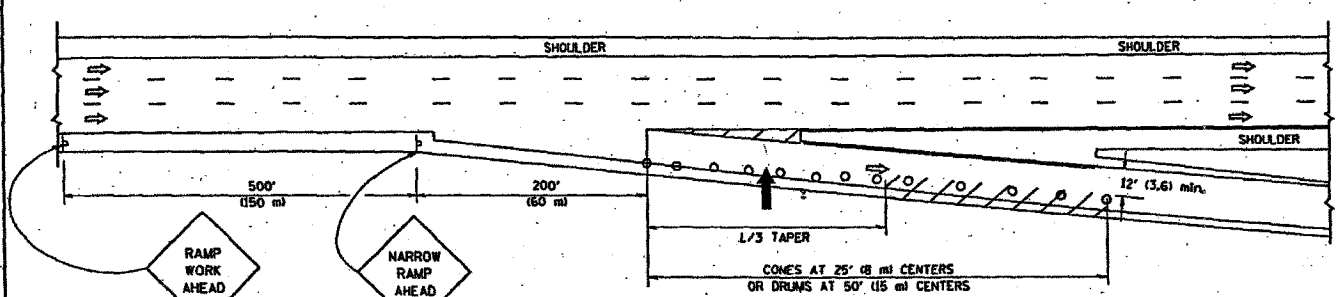
PLOT DATE: 1/4/2007
FILE NAME: G:\Projects\2006\043 RS\Traffic Control\Traffic Control.dwg
PLOT SCALE: 1/8"=1'-0"
PLOT BY: R.H.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-048-RS	COOK	91	20
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

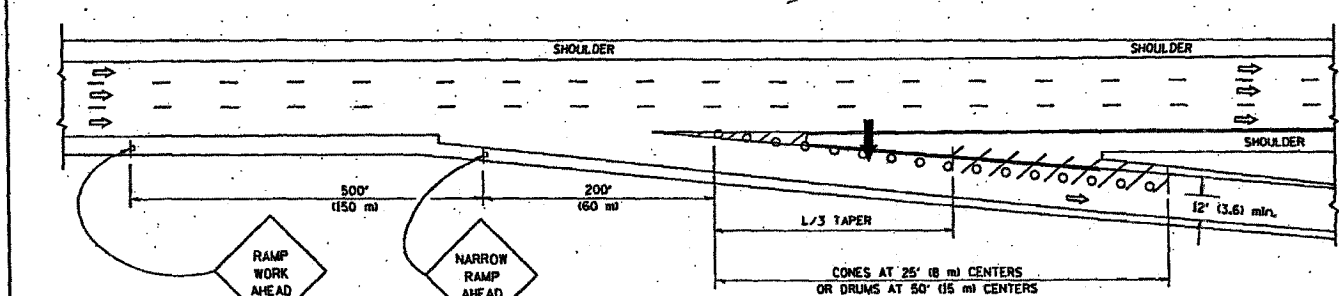
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

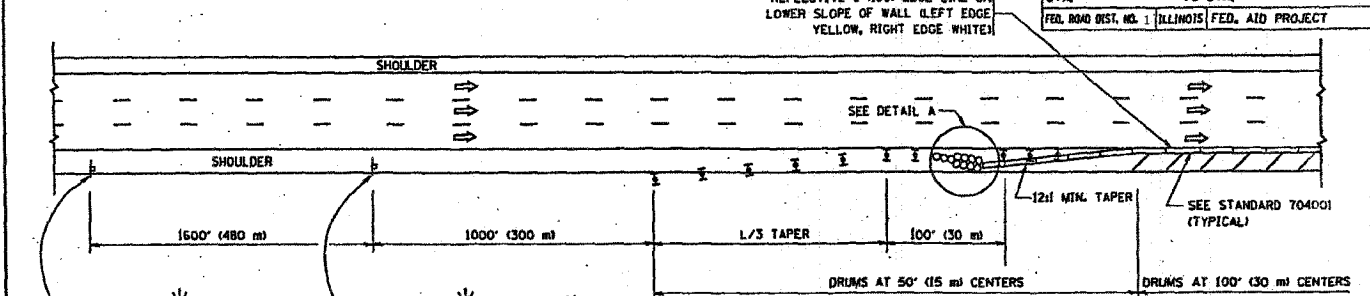
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

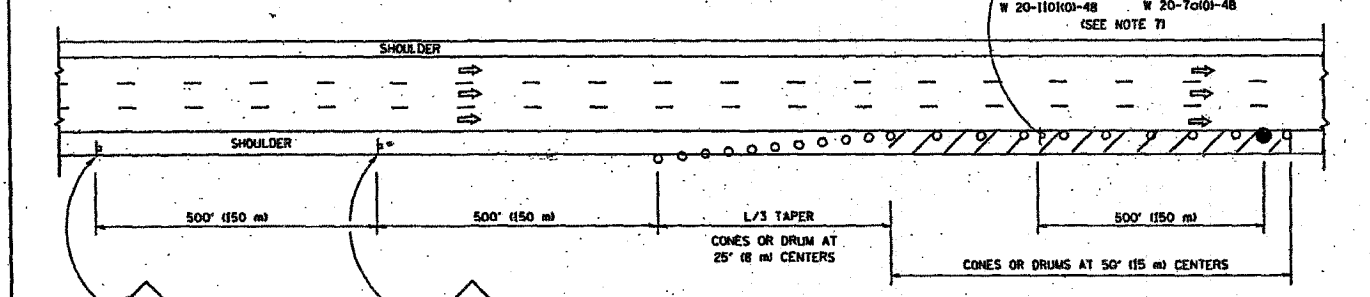
- THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC: $L = 0.65(W/S)$ ENGLISH: $L = (W/S)$
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
- PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRoACH IN AN AREA CLoSER THAN 15' (4.5 m) TO THE EDGE OF PAYEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL DETAILS
 FOR FREEWAY
 SHOULDER CLOSURES
 PARTIAL RAMP CLOSURES

DESIGNED BY: DWS
 DRAWN BY:
 CHECKED BY:
 DATE: 1/16/2007

TC-17

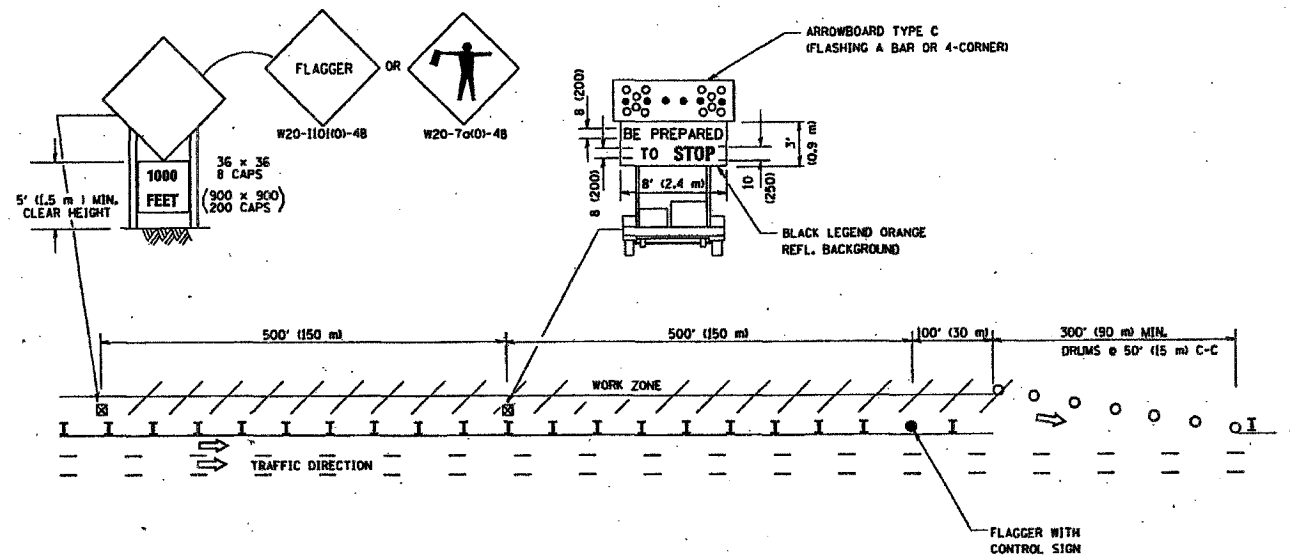
REVISION DATE: 01/01/07

PLOT DATE: 1/16/2007
 FILE NAME: NCHRP350.dwg
 PLOT SCALE: 1/8" = 1'-0"
 USER: JAF

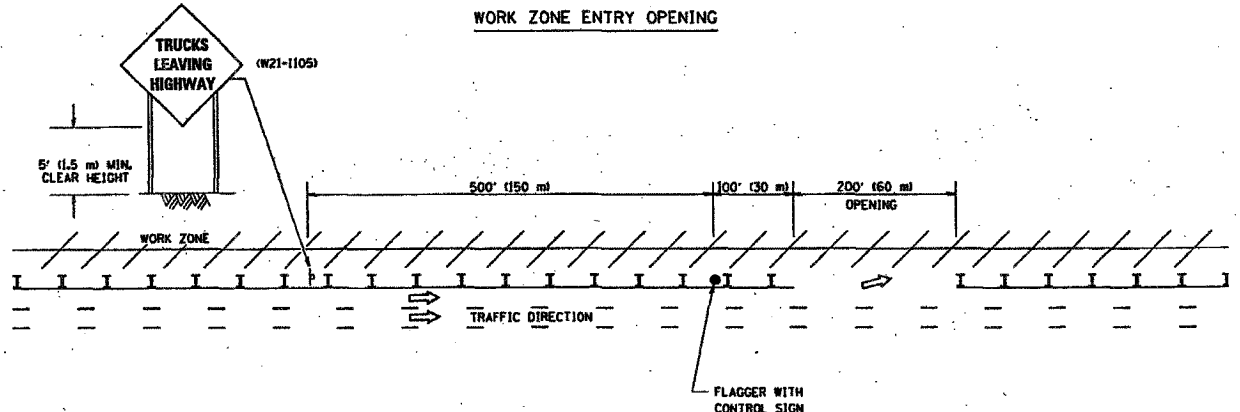
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 RS	COOK	91	21
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE
DATE: 1/16/2007

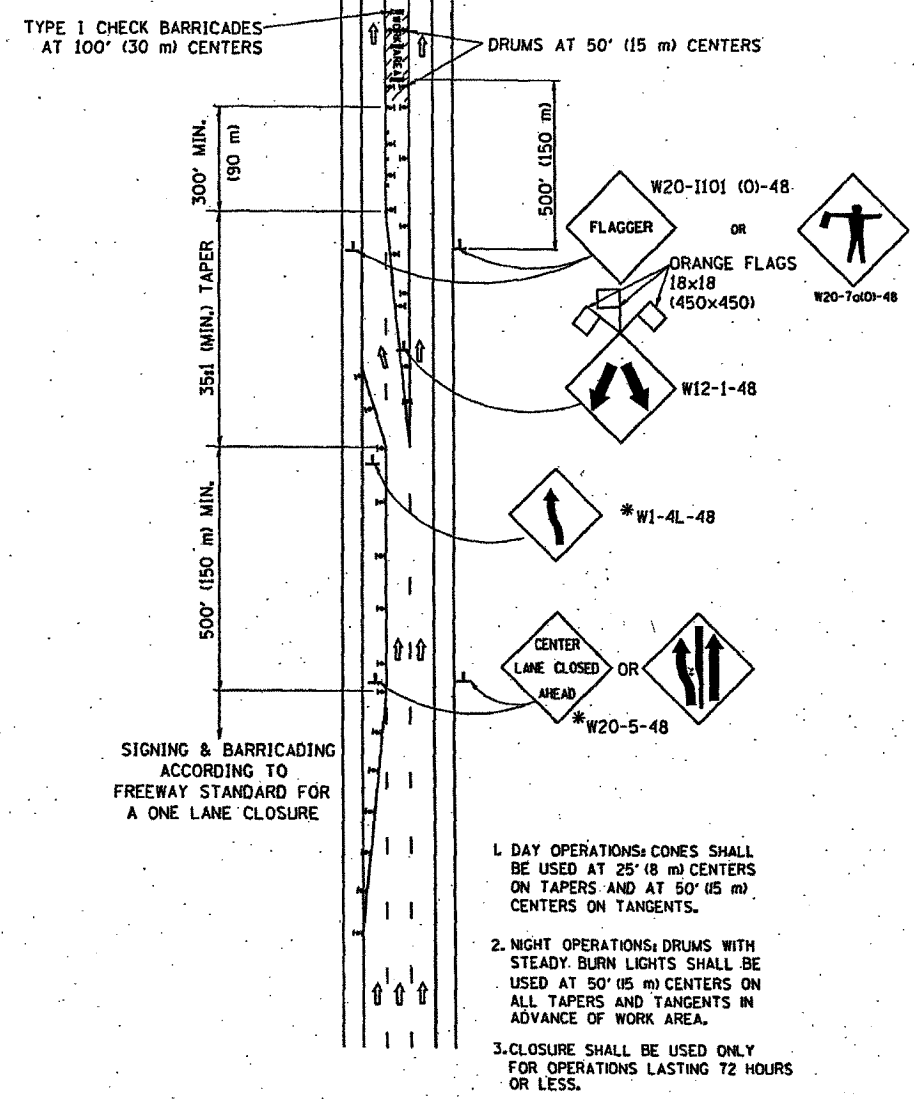
DRAWN BY CADD
CHECKED BY TC-18

REVISION DATE: 01/01/07

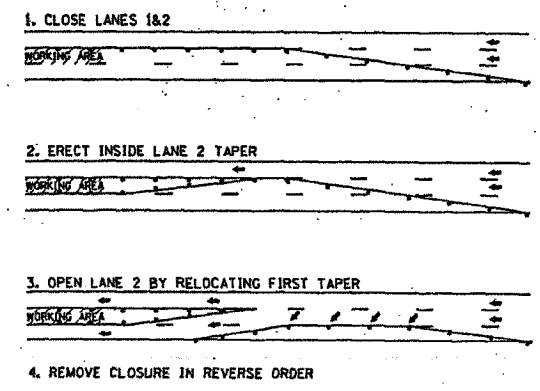
PLOT DATE: 1/16/2007
FILE NAME: N:\projects\62636\signing\TC-18.dwg
USER: JAF
CADD: JAF

CONTRACT NO. 62636			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
94	2006-043 BS	COOK	91
STA.	TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		

CENTER LANE CLOSURE

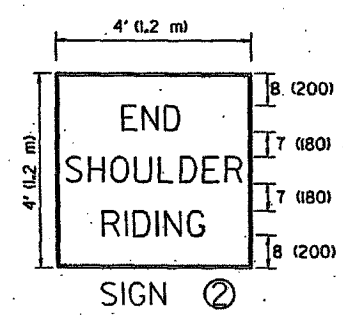
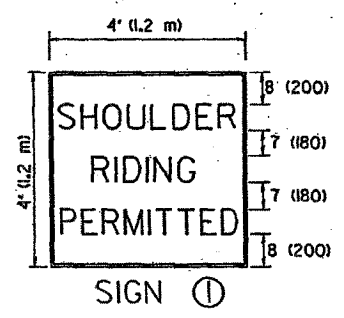
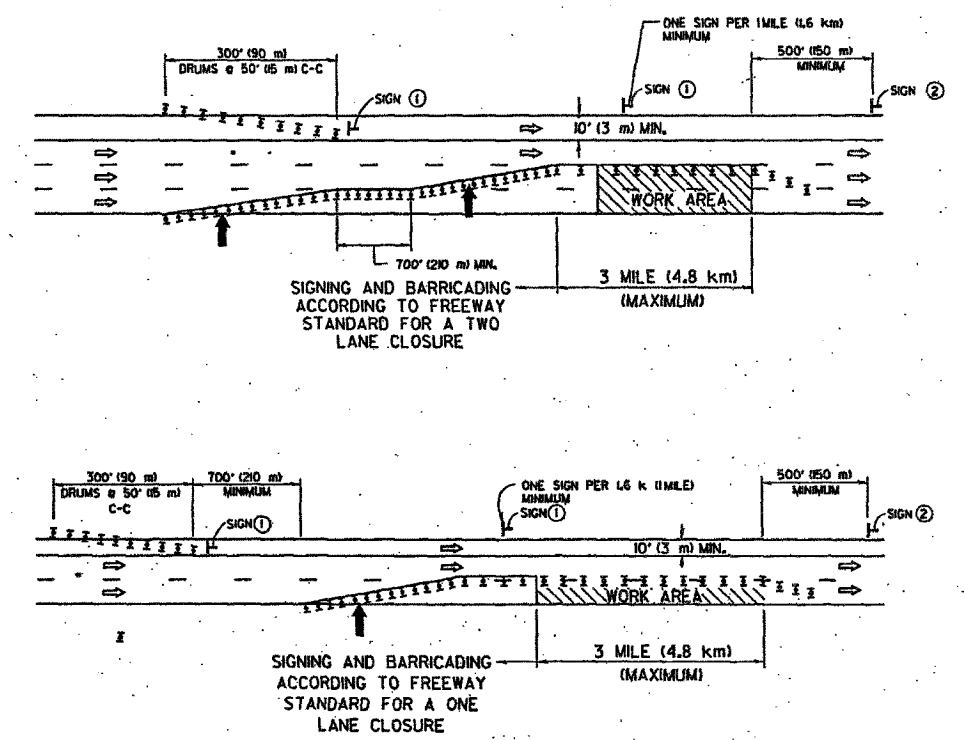


INSTALLATION SEQUENCE



SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (50) SERIES "C" LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
1/25" BORDER

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▨ WORK AREA
- ◇ SIGN WITH 18x18 (450x450) ORANGE FLAGS ATTACHED *
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ⊞ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

REVISIONS	
NAME	DATE
PRIOR DETAILS ON TC-9 - JAF	4/03
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS
FOR FREEWAY
CENTER LANE CLOSURE
SHOULDER LANE

SCALE: NONE
DATE: 1/4/2007
DRAWN BY: R.J.H.
CHECKED BY: TC-25
REVISION DATE: 01/01/07

PLOT DATE: 1/4/2007
FILE NAME: c:\p\projects\2006043bs\101.dwg
PLOT SCALE: 1/8"=1'-0" / 1/4"=1'-0"
USER: rjeh

CONTRACT NO. 62636			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
94	2003-071 RS	COOK	91 24
STA.		TO STA.	
RD. NO. DIST. NO. 1 ILLINOIS FED. AID PROJECT			

Northbound Edens 62636																	
Patch Locations																	
Patch Nbr	Station	Mile Marker	LN #	Revised Length (LF)	Area (SY)	Lane 1			Lane 2			Lane 3			Saw Cut (LF)	Pvmt. Reif (SY)	Tie Bar (EA)
						Ty II	Ty III	Ty IV	Ty II	Ty III	Ty IV	Ty II	Ty III	Ty IV			
38	504+63	Tower Rd	3	10	13.3	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.0	68.0	13.3	0
39	505+25	31/83	1	6	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	8.0	0
40	505+82	31/83	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
41	512+87	31/67	2	40	53.3	0.0	0.0	0.0	0.0	0.0	53.3	0.0	0.0	0.0	128.0	53.3	40
42	538+94	31/18	2	50	66.7	0.0	0.0	0.0	0.0	0.0	66.7	0.0	0.0	0.0	148.0	66.7	50
43	539+09	31/20	2	12	16.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	72.0	16.0	0
44	539+62	31/19	2	20	26.7	0.0	0.0	0.0	0.0	0.0	26.7	0.0	0.0	0.0	88.0	26.7	20
45	540+00	31/16	2	8	10.7	0.0	0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	64.0	10.7	0
46	555+46	30/89	2	6	8.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	60.0	8.0	0
47	573+20	30/57	2	60	80.0	0.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	168.0	80.0	60
48	575+10	30/50	1	6	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	8.0	0
49	576+60	30/46	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
50	581+86	30/39	2	20	26.7	0.0	0.0	0.0	0.0	0.0	26.7	0.0	0.0	0.0	88.0	26.7	20
51	583+70	30/23	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
52	584+50	30/34	2	25	33.3	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	98.0	33.3	25
53	589+91	Dundee Rd	3	10	13.3	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.0	68.0	13.3	0
54	589+91	bridge	2	140	186.7	0.0	0.0	0.0	0.0	0.0	186.7	0.0	0.0	0.0	328.0	186.7	140
55	602+10		2	18	24.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	84.0	24.0	0
56	618+50		2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
57	619+50	LP RA8	1	25	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	98.0	33.3	13
	622+70	Tollway Spur															
	650+62	Lake-Cook Rd															
62636 NB Mainline Patch Totals					2660.0	69.3	0.0	420.0	178.7	84.0	1386.7	34.7	0.0	486.7	6726.0	2660.0	1380.0

Southbound Edens 62636																	
Patch Locations																	
Patch Nbr	Station	Mile Marker	LN #	Revised Length (LF)	Area (SY)	Lane 1			Lane 2			Lane 3			Saw Cut (LF)	Pvmt. Reif (SY)	Tie Bar (EA)
						Ty II	Ty III	Ty IV	Ty II	Ty III	Ty IV	Ty II	Ty III	Ty IV			
	444+54	Willow Rd															
40	431+38	33/24	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
41	423+60	33/37	3	10	13.3	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.0	68.0	13.3	0
42	416+06	33/53	3	6	8.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	60.0	8.0	0
43	415+50	33/53	1	6	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	8.0	0
	414+80	Winnetka Rd															
44	408+70	33/62	2	8	10.7	0.0	0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	64.0	10.7	0
	394+08	Skokie River North Branch															
	378+90	Skokie Blvd / Illinois Rd															
	359+37	Lake Ave															
45	347+75	34/79	2	25	33.3	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	98.0	33.3	25
46	345+75	34/83	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
47	340+70	34/88	2	40	53.3	0.0	0.0	0.0	0.0	0.0	53.3	0.0	0.0	0.0	128.0	53.3	40
48	336+75	34/92	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
49	329+90	35/15	3	8	10.7	0.0	0.0	0.0	0.0	0.0	0.0	10.7	0.0	0.0	64.0	10.7	0
50	327+40	35/20	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
	318+71	Glenview Rd															
51	316+80	35/39	2	15	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	78.0	20.0	0
52	297+00	35/77	2	10	13.3	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	68.0	13.3	0
	296+23	Old Orchard															
62636 SB Mainline Patch Totals					996.0	130.7	24.0	173.3	157.3	72.0	126.7	114.7	44.0	153.3	3990.0	996.0	217.5

	Area (SY)	Lane 1			Lane 2			Lane 3			Saw Cut (LF)	Pvmt. Reif (SY)	Tie Bar (EA)
		Ty II	Ty III	Ty IV	Ty II	Ty III	Ty IV	Ty II	Ty III	Ty IV			
62636 Mainline Patch Totals	3656.0	200.0	24.0	593.3	336.0	156.0	1513.3	149.3	44.0	640.0	10716.0	3656.0	1597.5

PLOT DATE: 5/22/07
 PLOT SCALE: 1"=50'
 USER: MMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
SCALE:	DATE:	DRAWN BY:	
	MAY 2007		
		CHECKED BY:	

Edens I 94 Resurfacing Project

62636 Northbound Edens											
Ramp Patch Locations											
Patch Nbr	Size W x L	Length (FT)	Width (FT)	Area (SY)	Ramp	Patch Type A/B	SAW CUT (LF)	Pvmt. Reif. (SY)	Tie Bar (EA)	Expan Joint (FT)	Deform Bars (EA)
Old Orchard to NB I-94											
1	20 x 6	6	20	13.3		(bridge)					
2	20 x 6	6	20	13.3		(bridge)					
3	20 x 6	6	20	13.3		(bridge)					
4	20 x 25	25	20	55.6		(bridge)					
5	24 x 6	6	24	16.0		A	108	16.0			
NB I-94 to EB Lake											
1	22 x 6	6	22	14.7		A	100	14.7			
2	24 x 8	8	24	21.3		A	112	21.3			
3	20 x 8	8	20	17.8		A	96	17.8			
NB I-94 to WB Lake											
1	20 x 8	8	20	17.8		B	56			20	20
2	20 x 6	6	20	13.3		B	52				
NB Skokie to NB I-94											
1	20 x 12	12	20	26.7		B	64				
2	20 x 6	6	20	13.3		B	52				
3	20 x 60	60	20	133.3		B	160		60	20	20
4	20 x 25	25	20	55.6		B	90		25		
5	20 x 10	10	20	22.2		B	60				
6	22 x 6	6	22	14.7		B	56				
7	20 x 6	6	20	13.3		A	92	13.3			
8	20 x 6	6	20	13.3		A	92	13.3			
9	20 x 6	6	20	13.3		A	92	13.3			
10	20 x 6	6	20	13.3		A	92	13.3			
11	20 x 6	6	20	13.3		A	92	13.3			
12	20 x 30	50	20	111.1		A	180	111.1	50		
NB I-94 to EB Willow											
1	20 x 8	8	20	17.8		B	56				
NB I-94 to WB Willow											
1	3 x 15	15	3	5.0		A	42	5.0			
2	20 x 20	20	20	44.4		B	80			20	
3	20 x 6	6	20	13.3		B	52				
4	20 x 30	30	20	66.7		B	100			30	
5	20 x 30	30	20	66.7		B	100			30	
6	20 x 20	20	20	44.4		B	80			20	
Tower to NB I-94											
1	20 x 6	6	20	13.3		B	52				
2	20 x 6	6	20	13.3		B	52				
NB I-94 to EB Dundee											
1	20 x 6	6	20	13.3		B	52				
NB I-94 to WB Dundee											
1	20 x 8	8	20	17.8		B	56				
2	20 x 6	6	20	13.3		B	52				
3	20 x 6	6	20	13.3		B	52				
4	20 x 6	6	20	13.3		B	52				
5	20 x 8	8	20	17.8		B	56				
NB I-94 to Tollway (Lane 4)											
1	12 x 50	50	12	66.7		A	148	66.7	50		
2	12 x 12	12	12	16.0		A	72	16.0			
3	12 x 6	6	12	8.0		A	60	8.0			
4	24 x 30	30	24	80.0		A	156	80.0	30		
5	27 x 6	6	27	18.0		A	120	18.0			
6	25 x 6	6	25	16.7		A	112	16.7			

62636 Southbound Edens											
Ramp Patch Locations											
Patch Nbr	Size W x L	Length (FT)	Width (FT)	Area (SY)	Ramp	Patch Type A/B	SAW CUT (LF)	Pvmt. Reif. (SY)	Tie Bar (EA)	Expan Joint (FT)	Deform Bars (EA)
SB I-94 to Lake Cook											
1	20 x 6	6	20	13.3		B	52				
2	30 x 6	6	30	20.0		B	72				
3	120					B	0				
Lake Cook to SB I-94											
1	25 x 100	100	25	277.8		B	250		150	100	100
2	20 x 6	6	20	13.3		B	52				
3	20 x 6	6	20	13.3		B	52				
4	20 x 6	6	20	13.3		B	52				
5	20 x 6	6	20	13.3		B	52				
6	20 x 6	6	20	13.3		A	92	13.3			
7	20 x 10	10	20	22.2		A	100	22.2			
8	3 x 3	3	3	1.0		A	18	1.0			
Tollway to SB I-94											
1	12 x 6	6	12	8.0		A	60	8.0			
2	15 x 6	6	15	10.0		A	72	10.0			
3	15 x 6	6	15	10.0		A	72	10.0			
4	14 x 30	30	14	46.7		A	116	46.7	30		
WB Dundee to SB I-94											
1	20 x 6	6	20	13.3		B	52				
2	20 x 6	6	20	13.3		B	52				
3	20 x 6	6	20	13.3		B	52				
4	20 x 6	6	20	13.3		B	52				
5	15 x 6	6	15	10		A	72	10.0			
6	12 x 6	6	12	8		A	60	8.0			
7	12 x 6	6	12	8		A	60	8.0			
EB Dundee to SB I-94											
1	20 x 6	6	20	13.3		B	52				
SB I-94 to Tower											
1	20 x 10	10	20	22.2		B	60				
2	20 x 6	6	20	13.3		B	52				
WB Willow to SB I-94											
EB Willow to SB I-94											
1	12 x 6	6	12	8.0		A	60	8.0			
SB I-94 to Skokie											
1	22 x 8	8	22	19.6		B	60				
2	22 x 8	8	22	19.6		B	60				
3	20 x 6	6	20	13.3		B	52				
WB Lake to SB I-94											
1	20 x 6	6	20	13.3		B	52				
2	20 x 6	6	20	13.3		B	52				
3	20 x 6	6	20	13.3		B	52				
4	20 x 6	6	20	13.3		B	52				
5	20 x 10	10	20	22.2		A	100	22.2			
6	12 x 6	6	12	8.0		A	60	8.0			
EB Lake to SB I-94											
1	20 x 6	6	20	13.3		B	52				
2	20 x 6	6	20	13.3		B	52				
3	12 x 6	6	12	8.0		A	60	8.0			
4	10 x 6	6	10	6.7		A	52	6.7			
SB I-94 to Old Orchard											
62636 SB RAMP PATCH TOTALS					789.2		2492.0	190.1	180.0	100.0	100.0

PLOT DATE: 5/22/07
 PLOT SCALE: 1/8"=1'-0"
 PLOT BY: MAM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	RAMP PATCHING SCHEDULE	
		OLD ORCHARD ROAD TO LAKE-COOK ROAD	
		SCALE:	DRAWN BY
		DATE MAY 2007	CHECKED BY
Edens I 94 Resurfacing Project			

62636 Northbound Edens											
Ramp Patch Locations											
Patch Nbr	Size W x L	Length (FT)	Width (FT)	Area (SY)	Ramp	Patch Type A / B	SAW CUT (LF)	Pvmt. Reif. (SY)	Tie Bar (EA)	Expan Joint (FT)	Deform Bars (EA)
NB I-94 to Lake Cook											
1	20 x 15	15	20	33.3		A	110	33.3			
2	20 x 6	6	20	13.3		A	92	13.3			
3	20 x 40	40	20	88.9		B	120		40		
4	20 x 10	10	20	22.2		B	60				
5	20 x 20	20	20	44.4		B	80		20		
6	20 x 6	6	20	13.3		B	52				
7	20 x 6	6	20	13.3		B	52				
8	20 x 20	20	20	44.4		B	80		20		
9	20 x 6	6	20	13.3		B	52				
10	20 x 6	6	20	13.3		B	52				
11	20 x 6	6	20	13.3		B	52				
12	20 x 6	6	20	13.3		B	52				
13	20 x 20	20	20	44.4		B	80		20		
14	20 x 6	6	20	13.3		B	52				
15	24 x 220	220	24	586.7		B	488		330	96	96
16	24 x 6	6	24	16.0		B	60				
Lake Cook to NB I-94											
1	200			200		B	0				
2	30 x 15	15	30	50.0		B	90				
3	15 x 10	10	15	16.7		A	80	16.7			
4	12 x 6	6	12	8.0		A	60	8.0			
5	12 x 6	6	12	8.0		A	60	8.0			
62636 NB RAMP PATCH TOTALS				2489.0			4872	504.6	745	136	136

Area (SY)	SAW CUT (LF)	Pvmt. Reif. (SY)	Tie Bar (EA)	Expan Joint (FT)	Deform Bars (EA)
62636 RAMP PATCH TOTALS	3278.2	7364.0	694.7	925.0	236.0

PLOT DATE: 5/22/07
 FILE NAME: I-94.RS
 PLOT SCALE: 1"=50'
 USER NAME: J. GIBSON

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP PATCHING SCHEDULE
LAWRENCE AVENUE TO OLD ORCHARD ROAD
 SCALE: DATE MAY 2007
 DRAWN BY: CHECKED BY:

Edens I 94 Resurfacing Project

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	27
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62636 Northbound Edens			
Barrier Wall Replacement			
Wall Nbr #	Station	Mile Marker	Length (LF)
	296+23	Old Orchard	
28		35/50	10
29		35/49	20
30		35/47	10
	318+71	Glenview Rd	
31		35/26	10
32		35/12	60
33		34/82	30
	359+37	Lake Ave	
34		34/43	60
35		34/40	100
36		34/30	10
37		34/25	20
	378+90	Skokie Blvd / Illinois Rd	
38		34/15	20
39		34/10	20
40		34/07	10
	394+08	Skokie River North Branch	
41		33/67	10
	414+80	Winnetka Rd	
	444+54	Willow Rd	
42		32/80	30
43		32/80	30
44		32/18	20
45		32/13	20
	504+63	Tower Rd	
46		31/80	20
47		31/69	40
48		31/36	20
49		31/14	30
50		31/12	30
51		31/07	30
52		31/06	10
53		31/05	20
	589+91	Dundee Rd	
54		LP RA6 - RB7	10
55		LP RA8	10
56		LP RA10 - RB 11	20
57		LP RB11	20
58		LP SB3	10
59		LP SB3 - SA2	10
	622+70	Tollway Spur	
60		LP SA12	10
61		LP SA14	40
62		LP SA14 - SB15	10
	650+62	Lake-Cook Rd	
			Length (LF)
62636 NB BARRIER WALL TOTALS			830

62636 Southbound Edens			
Barrier Wall Replacement			
Wall Nbr #	Station	Mile Marker	Length (LF)
	650+62	Lake-Cook Rd	
1		LP SB15 - SB14	20
2		LP SB15 - SB14	70
3		LP SB12	10
4		LP SB2	10
5		LP SB2	10
6		LP SB2 - SA3	10
7		LP SA3	10
8		LP SB4	10
9		LP SA7 - SB8	40
	622+70	Tollway Spur	
10		LP SA10 - SA11	10
11		LP SA11	10
12		LP SA11 - RB12	20
13		LP SA11 - RB12	20
14		LP RA11	20
15		LP RA11 - RB10	20
16		LP RA9 - RB8	20
17		LP RB8	20
18		LP RB8 - RA7	20
19		LP RB8 - RA7	60
20		LP RA7	10
21		LP RA7	10
22		LP RA7 - RB6	40
23		LP RA7 - RB6	30
24		LP RA7 - RB6	30
25		LP RB6	10
	589+91	Dundee Rd	
26		30/31	10
27		30/47	25
28		30/54	20
29		31/03	40
30		31/05	30
31		31/07	60
32		31/09	30
33		31/15	40
34		31/36	20
35		31/45	10
36		31/69	60
	504+63	Tower Rd	
37		31/88	40
38		32/13	40
39		32/14	30
40		32/16	30
41		32/18	15
42		32/42	30
43		32/44	50
44		32/48	10
45		32/49	50

62636 Southbound Edens			
Barrier Wall Replacement			
Wall Nbr #	Station	Mile Marker	Length (LF)
46		32/51	20
47		32/53	10
48		32/54	20
49		32/55	10
50		32/57	10
51		32/58	10
52		32/60	5
53		32/67	10
54		32/68	10
55		32/68	10
56		32/70	20
57		32/71	80
58		32/74	30
59		32/77	10
60		32/80	120
	444+54	Willow Rd	
61		33/03	30
62		33/05	10
63		33/14	10
64		33/20	5
65		33/24	10
66		33/25	20
67		33/26	20
68		33/31	5
69		33/47	20
	414+80	Winnetka Rd	
70		33/55	10
71		33/66	10
72		33/88	40
	394+08	Skokie River North Branch	
73		33/93	20
74		33/94	30
75		34/07	10
76		34/10	10
77		34/16	20
	378+90	Skokie Blvd / Illinois Rd	
78		34/25	20
79		34/28	20
80		34/29	5
81		34/30	10
82		34/40	30
83		34/41	30
	359+37	Lake Ave	
84		34/82	40
85		35/10	10
86		35/11	10
87		35/12	40
88		35/23	15
89		35/26	20
90		35/30	20

62636 Southbound Edens			
Barrier Wall Replacement			
Wall Nbr #	Station	Mile Marker	Length (LF)
	318+71	Glenview Rd	
91		35/42	5
92		35/42	10
93		35/44	5
94		35/45	5
95		35/47	20
96		35/49	20
97		35/50	20
98		35/51	10
99		35/54	10
100		35/57	10
101		35/65	20
102		35/67	10
103		35/68	30
104		35/74	10
			Length (LF)
62636 SB BARRIER WALL TOTALS			2290

			Length (LF)
62636 BARRIER WALL TOTALS			3120

62636 Northbound Edens			
Guardrail Improvement			
Station	Cross Road	Terminal Type 1	Guardrail Replacement (LF)
375+35	Skokie Rd	Flared	-
496+30	Tower	-	25
501+30	Tower	-	25
508+89	Tower - Ramp	Flared	-
511+00	Tower - Ramp	-	25
621+00	Dundee	-	25

62636 Southbound Edens			
Guardrail Improvement			
Station	Cross Road	Terminal Type 1	Guardrail Replacement (LF)
590+22	Dundee - Ramp	Tangent	-
647+17.93	Lake-Cook	-	12.5

REVISIONS	
NAME	DATE

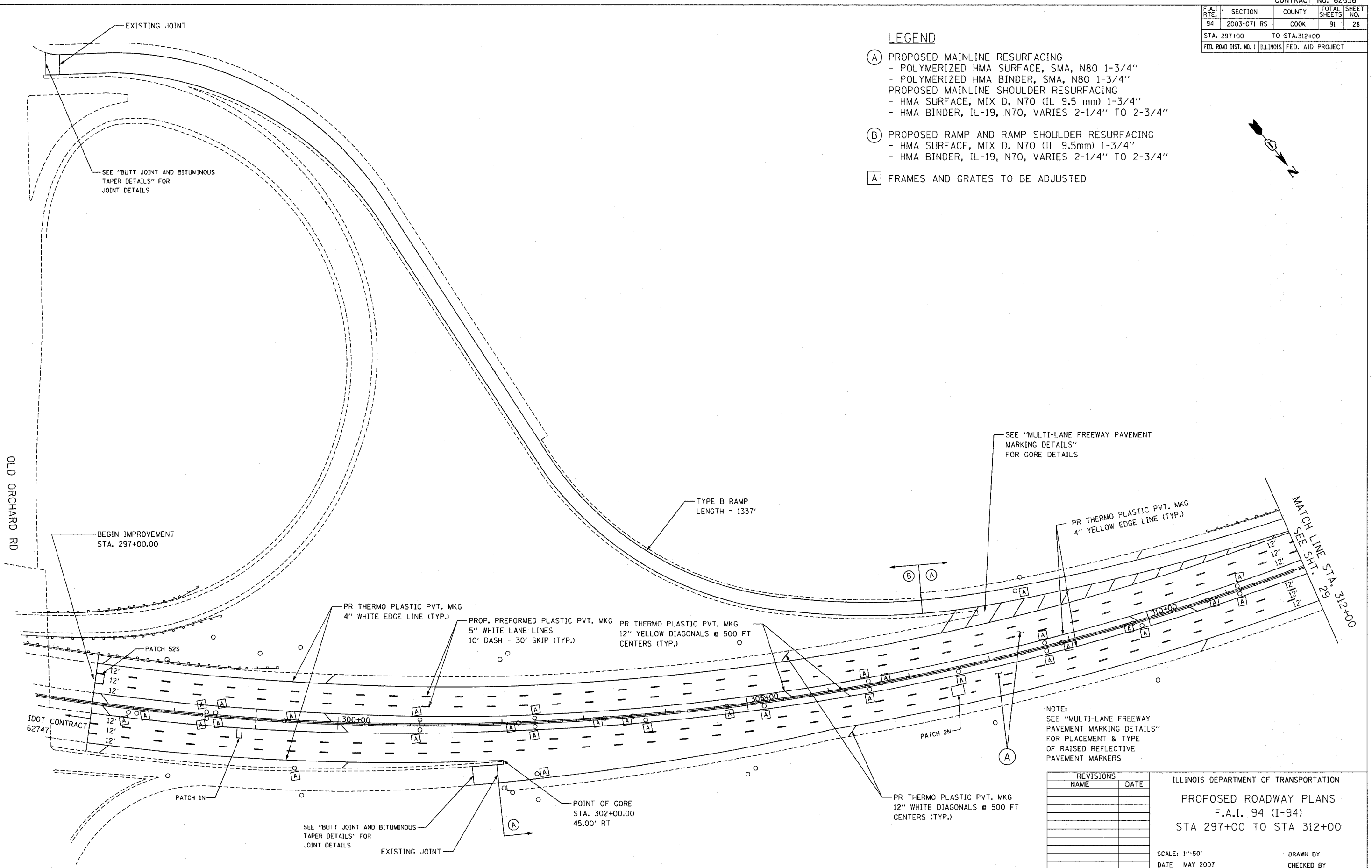
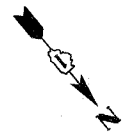
ILLINOIS DEPARTMENT OF TRANSPORTATION
 BARRIER WALL REPAIR & GUARDRAIL IMPROVEMENT SCHEDULES
 LAWRENCE AVENUE TO OLD ORCHARD ROAD
 SCALE: _____ DRAWN BY _____
 DATE MAY 2007 CHECKED BY _____

PLOT DATE = 05/24/2007
 PLOT SCALE = 1"=50'
 USER NAME = default

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	28
STA. 297+00		TO STA. 312+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- [A] FRAMES AND GRATES TO BE ADJUSTED



PLOT DATE = 5/22/2007
 FILE NAME = 94RS199
 PLOT SCALE = 1"=50'
 USER NAME = CRT/OUT

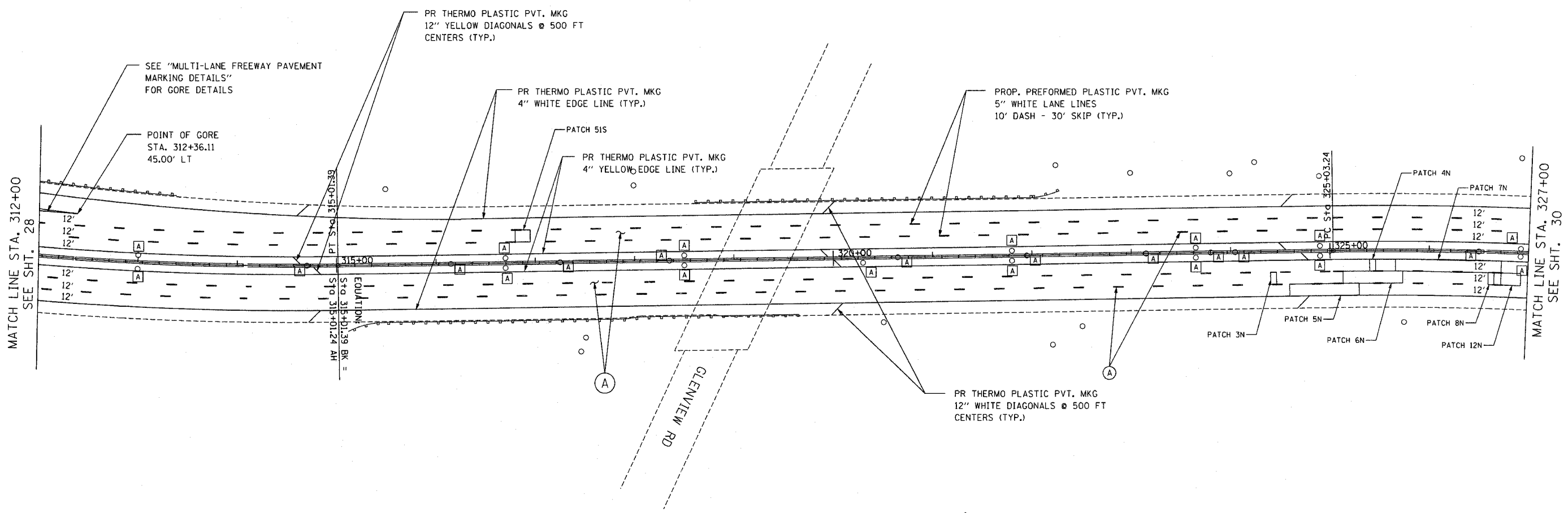
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 297+00 TO STA 312+00

SCALE: 1"=50'
 DATE: MAY 2007

DRAWN BY: _____
 CHECKED BY: _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	29
STA. 312+00		TO STA. 327+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

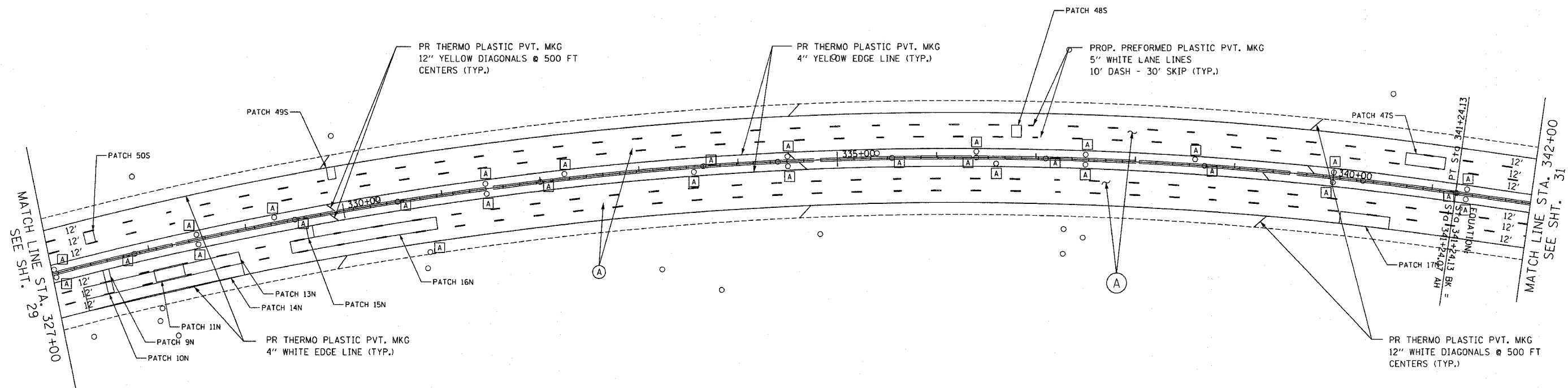
NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 312+00 TO STA 327+00
 SCALE: 1"=50'
 DATE MAY 2007
 DRAWN BY
 CHECKED BY

PLOT DATE = 5/22/2007
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	30
STA. 327+00		TO STA. 342+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

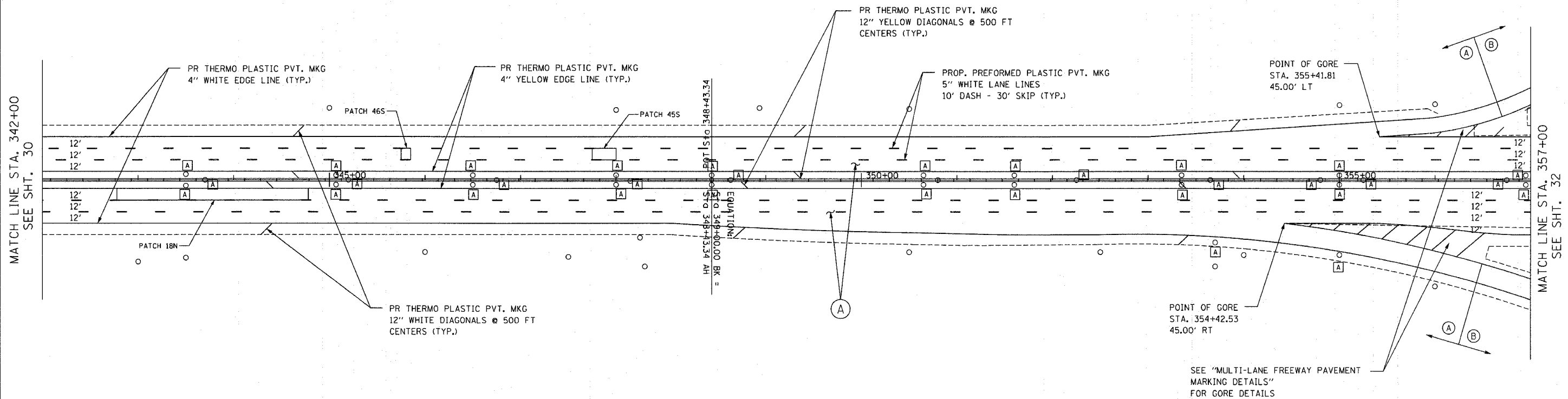
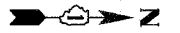
NOTE:
SEE "MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS"
FOR PLACEMENT & TYPE
OF RAISED REFLECTIVE
PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 327+00 TO STA 342+00
 SCALE: 1"=50'
 DATE: MAY 2007
 DRAWN BY: _____
 CHECKED BY: _____

PLOT DATE = 5/22/2007
 FILE NAME = BFILE18
 PLOT SCALE = BSCALE8
 USER NAME = DBFGJBT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	31
STA. 342+00		TO STA. 357+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

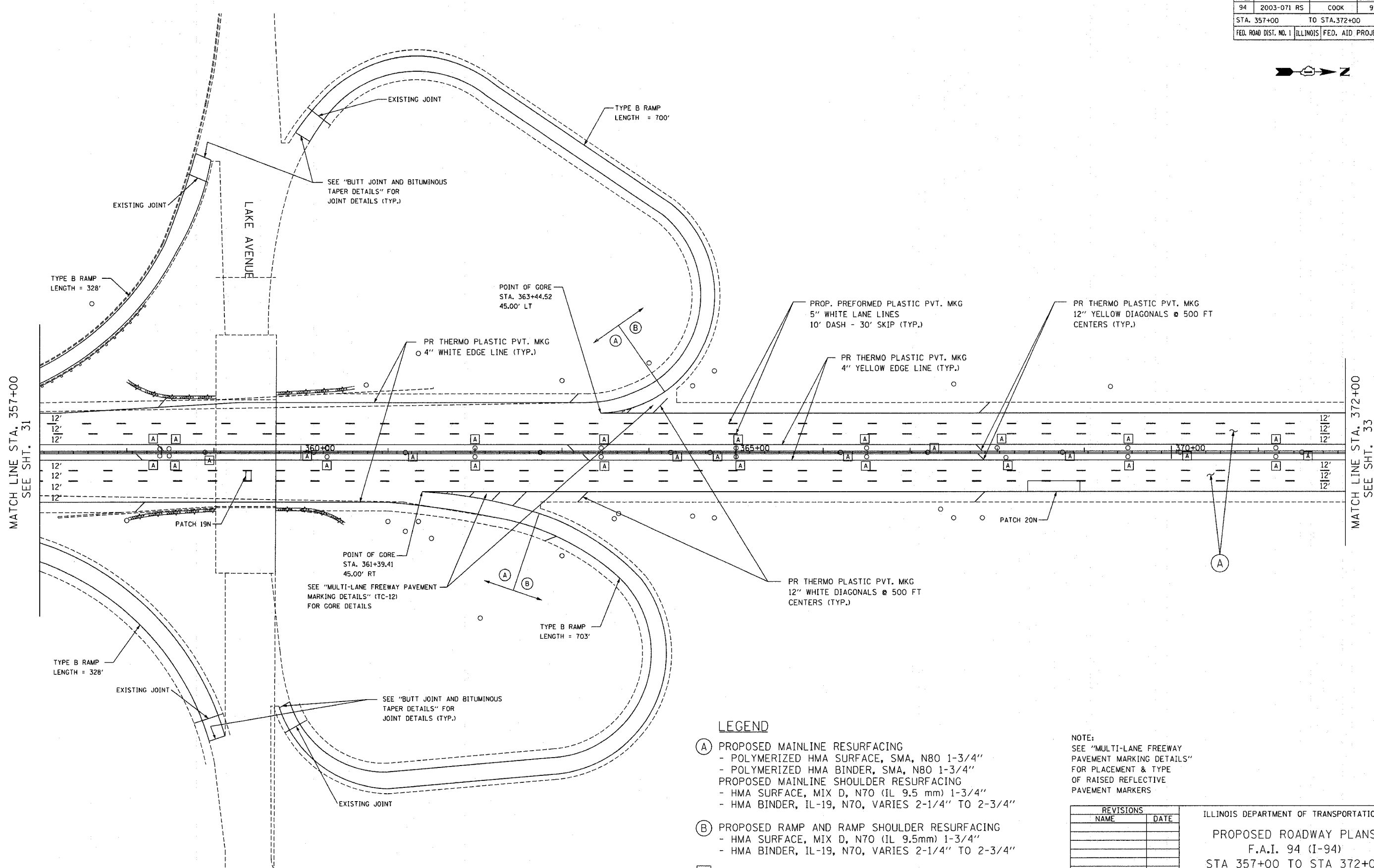
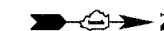
NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 342+00 TO STA 357+00
 SCALE: 1"=50'
 DATE MAY 2007
 DRAWN BY
 CHECKED BY

PLOT DATE = 5/22/2007
 PLOT SCALE = AS SHOWN
 USER NAME = ORTOUT

CONTRACT NO. 62636				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	32
STA. 357+00		TO STA. 372+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



MATCH LINE STA. 357+00
SEE SHT. 31

MATCH LINE STA. 372+00
SEE SHT. 33

- LEGEND**
- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
 - PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
 - (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
 - (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS"
FOR PLACEMENT & TYPE
OF RAISED REFLECTIVE
PAVEMENT MARKERS

REVISIONS	
NAME	DATE

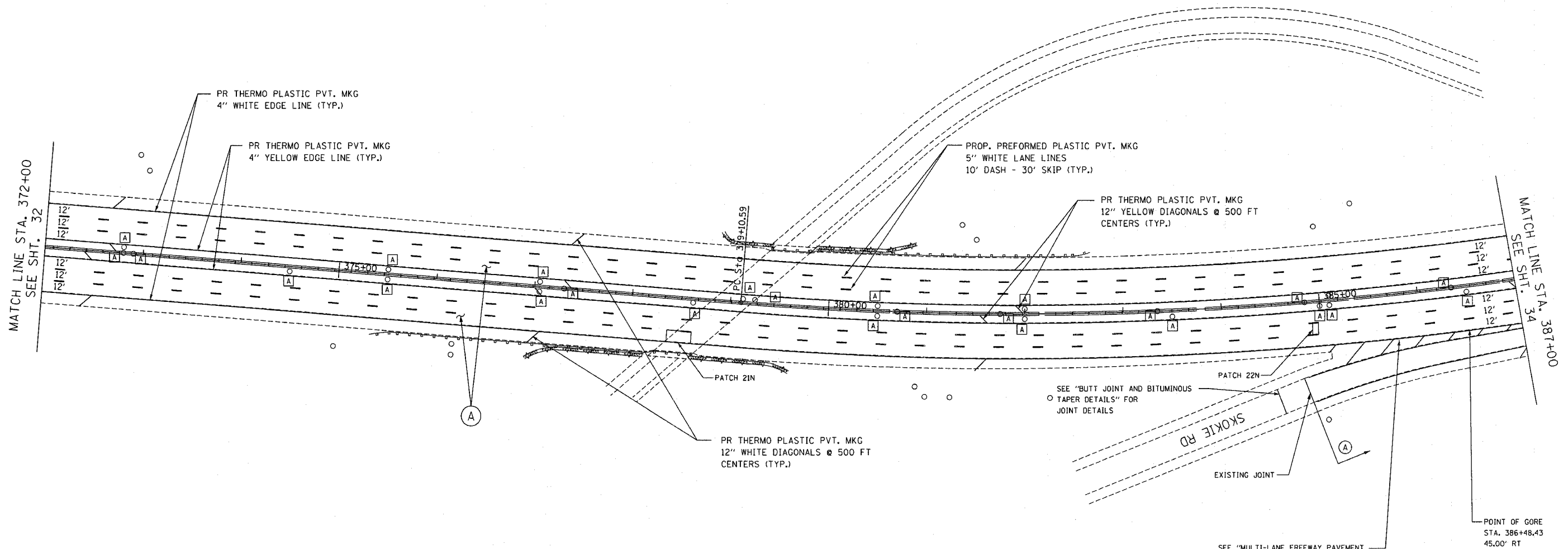
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
F.A.I. 94 (I-94)
STA 357+00 TO STA 372+00

SCALE: 1"=50'
DATE MAY 2007

DRAWN BY
CHECKED BY

PLOT DATE = 5/22/2007
FILE NAME = #FILEL8
PLOT SCALE = #SCALE8
USER NAME = #PFGUT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	33
STA. 372+00		TO STA. 387+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

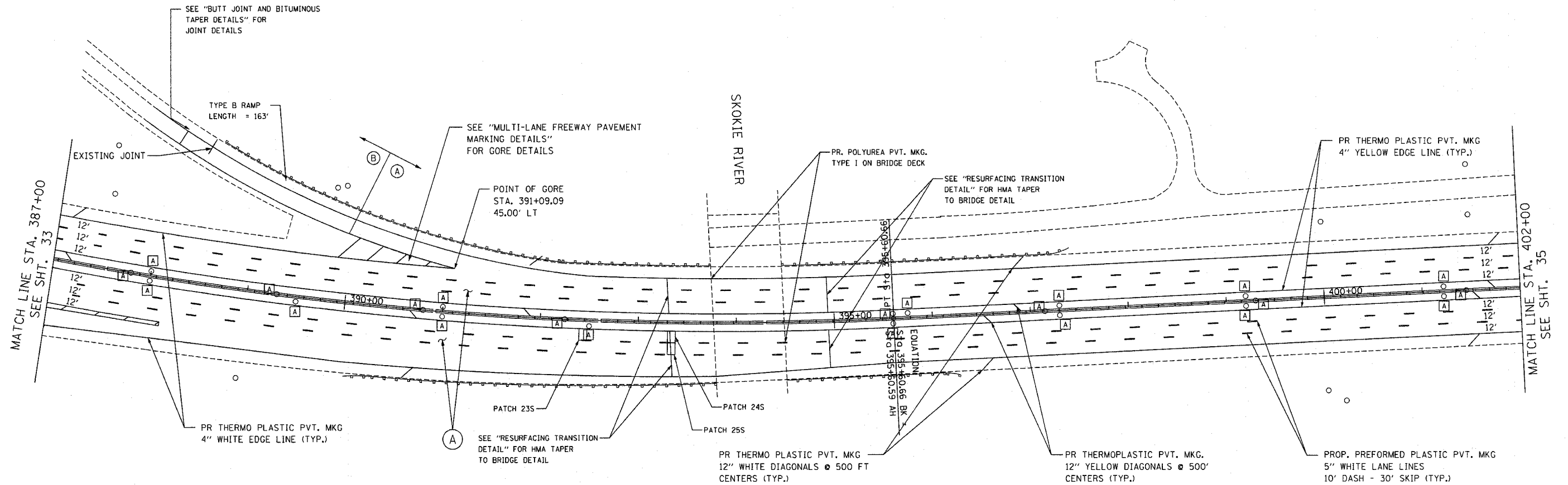
NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 372+00 TO STA 387+00
 SCALE: 1"=50'
 DATE: MAY 2007
 DRAWN BY: _____
 CHECKED BY: _____

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	34
STA. 387+00		TO STA. 402+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
F.A.I. 94 (I-94)
STA 387+00 TO STA 402+00

SCALE: 1"=50'
DATE MAY 2007

DRAWN BY
CHECKED BY

PLOT DATE = 5/22/2007
FILE NAME = BFILE19
PLOT SCALE = BSCALE19
USER NAME = BPGOUT

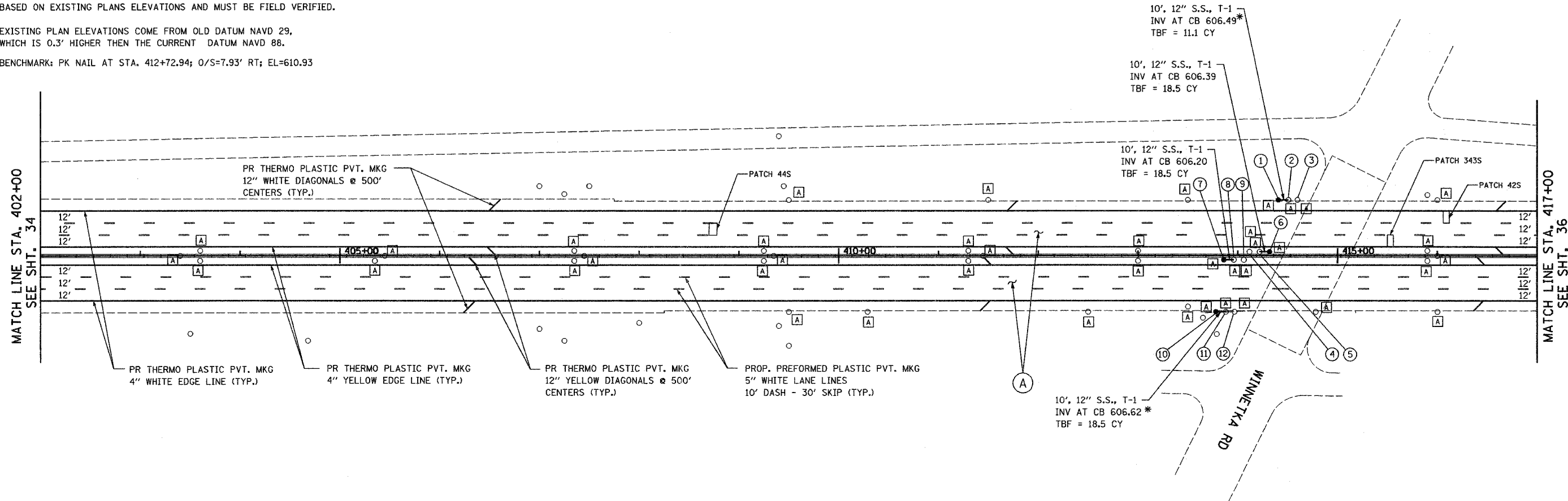
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	35
STA. 402+00		TO STA. 417+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- ① PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 414+44.00
RIM EL = 609.06
INV EL = 606.49*
- ② EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 414+54.00
RIM EL = 609.00
INV EL = 606.29*
- ③ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 414+64.00
RIM EL = 608.92
INV EL = 606.81*
- ④ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 414+11.73
RIM EL = 609.28
INV EL = 605.98
- ⑤ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 414+21.84
RIM EL = 609.19
INV EL = 606.19
- ⑥ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 414+31.84
RIM EL = 609.26
INV EL = 606.39
- ⑦ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 413+86.03
RIM EL = 609.40
INV EL = 606.20
- ⑧ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 413+96.03
RIM EL = 609.30
INV EL = 606.00
- ⑨ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 414+06.04
RIM EL = 609.39
INV EL = 605.99
- ⑩ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 413+80.00
RIM EL = 609.24
INV EL = 606.62*
- ⑪ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 413+90.00
RIM EL = 609.18
INV EL = 606.42*
- ⑫ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 414+00.00
RIM EL = 609.12
INV EL = 606.87*

NOTES:

- * DENOTES ELEVATIONS TAKEN FROM EXISTING PLANS, OR CALCULATED BASED ON EXISTING PLANS ELEVATIONS AND MUST BE FIELD VERIFIED.
- EXISTING PLAN ELEVATIONS COME FROM OLD DATUM NAVD 29, WHICH IS 0.3' HIGHER THEN THE CURRENT DATUM NAVD 88.
- BENCHMARK: PK NAIL AT STA. 412+72.94; O/S=7.93' RT; EL=610.93



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 402+00 TO STA 417+00
 SCALE: 1"=50'
 DATE: MAY 2007
 DRAWN BY: _____
 CHECKED BY: _____

PLOT DATE = 05/24/2007
 PLOT NAME = I94RESURF
 PLOT SCALE = AS SHOWN
 USER NAME = default

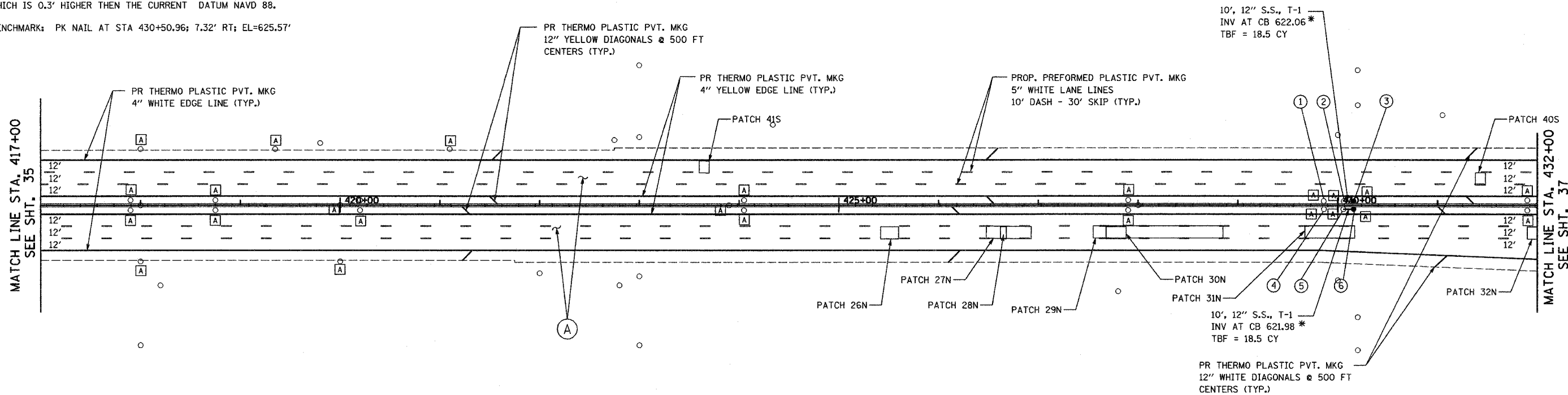
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	36
STA. 417+00		TO STA. 432+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



- ① EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 429+85.88
RIM EL = 625.33
INV EL = 621.83*
- ② EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 430+05.96
RIM EL = 625.36
INV EL = 621.86*
- ③ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 430+15.96
RIM EL = 625.38
INV EL = 622.06*
- ④ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 429+86.14
RIM EL = 625.33
INV EL = 621.83*
- ⑤ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 430+05.57
RIM EL = 625.28
INV EL = 621.78*
- ⑥ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 430+15.96
RIM EL = 625.31
INV EL = 621.98*

NOTES:

- * DENOTES ELEVATIONS TAKEN FROM EXISTING PLANS, OR CALCULATED BASED ON EXISTING PLANS ELEVATIONS AND MUST BE FIELD VERIFIED.
- EXISTING PLAN ELEVATIONS COME FROM OLD DATUM NAVD 29, WHICH IS 0.3' HIGHER THEN THE CURRENT DATUM NAVD 88.
- BENCHMARK: PK NAIL AT STA 430+50.96; 7.32' RT; EL=625.57'



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
F.A.I. 94 (I-94)
STA 417+00 TO STA 432+00

SCALE: 1"=50'
DATE MAY 2007

DRAWN BY
CHECKED BY

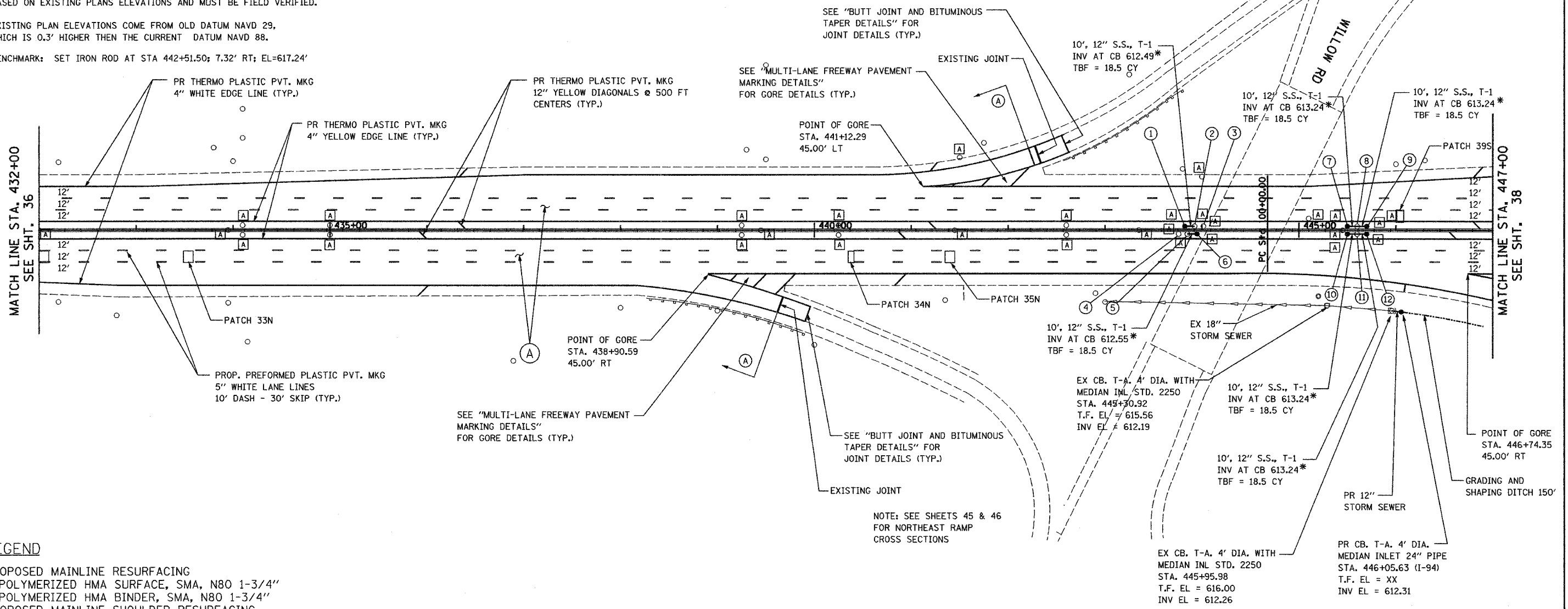
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	37
STA. 432+00		TO STA. 447+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

- ① PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 443+82.31
RIM EL = 615.82
INV EL = 612.49*
- ② EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 443+92.31
RIM EL = 615.79
INV EL = 612.29*
- ③ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 444+01.43
RIM EL = 615.94
INV EL = 612.39*
- ④ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 443+75.93
RIM EL = 615.89
INV EL = 612.39
- ⑤ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 443+84.90
RIM EL = 615.85
INV EL = 612.35*
- ⑥ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 443+94.90
RIM EL = 616.00
INV EL = 612.55*
- ⑦ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 445+50.00
RIM EL = 617.35*
INV EL = 613.24*
- ⑧ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 445+60.00
RIM EL = 617.44*
INV EL = 613.04*
- ⑨ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 445+70.00
RIM EL = 617.53*
INV EL = 613.24*
- ⑩ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 445+50.00
RIM EL = 617.35*
INV EL = 613.24*
- ⑪ EX CB, T-A, (4' DIA.) W/ T24 F&G
STA. 445+60.00
RIM EL = 617.44*
INV EL = 613.04*
- ⑫ PR CB, T-C, (2' DIA.) W/ T24 F&G
STA. 445+70.00
RIM EL = 617.53*
INV EL = 613.24*

NOTES:

- * DENOTES ELEVATIONS TAKEN FROM EXISTING PLANS, OR CALCULATED BASED ON EXISTING PLANS ELEVATIONS AND MUST BE FIELD VERIFIED.
- EXISTING PLAN ELEVATIONS COME FROM OLD DATUM NAVD 29, WHICH IS 0.3' HIGHER THEN THE CURRENT DATUM NAVD 88.
- BENCHMARK: SET IRON ROD AT STA 442+51.50; 7.32' RT; EL=617.24'



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 432+00 TO STA 447+00

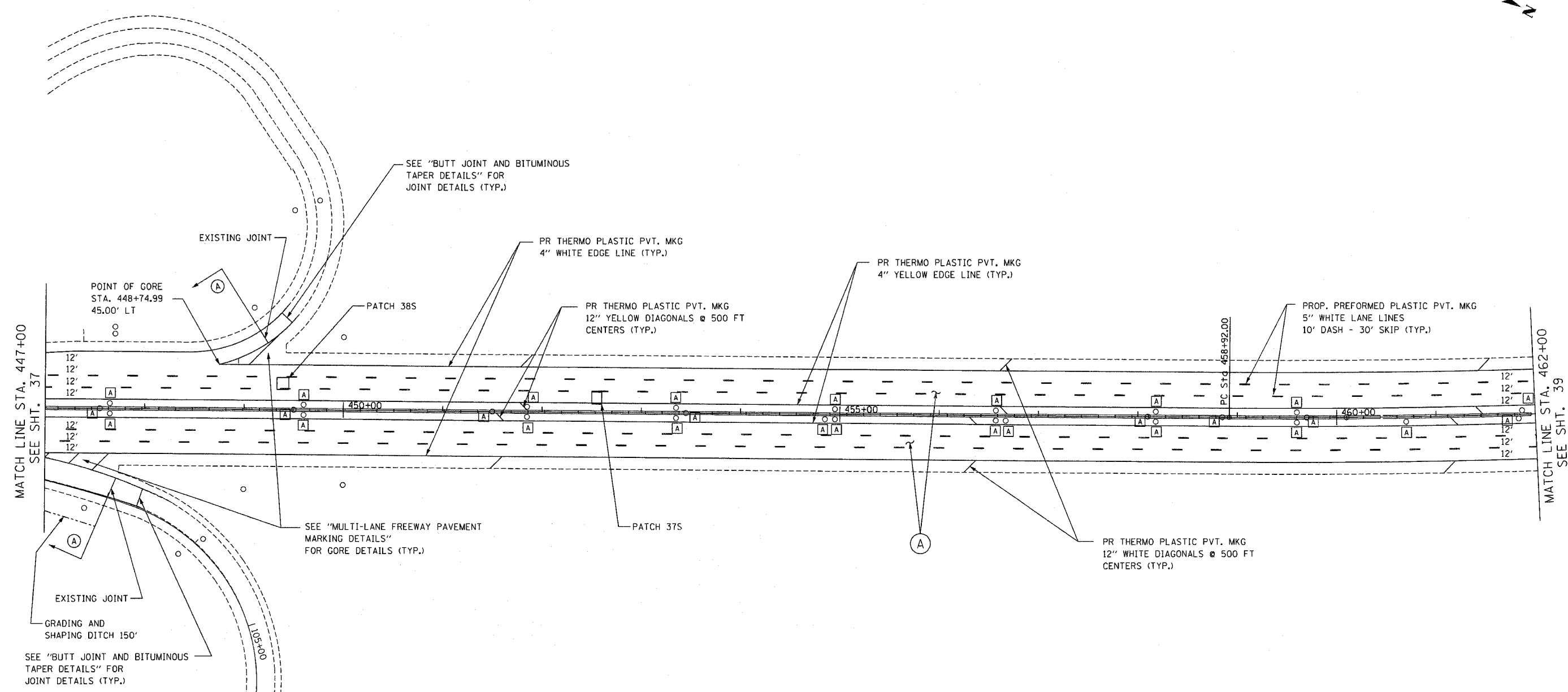
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NOTE:
 SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	38
STA. 447+00		TO STA. 462+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



- LEGEND**
- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
 - PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
 - (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
 - [A] FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

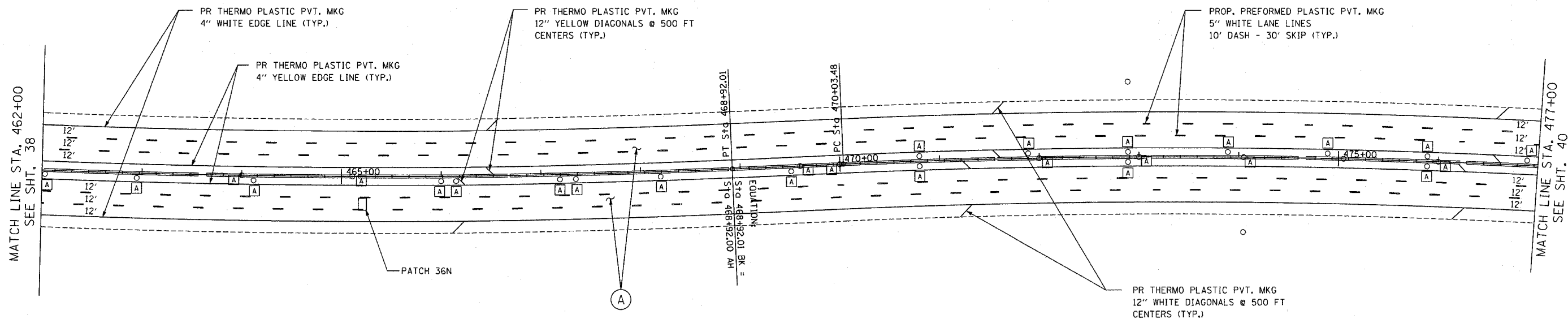
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 447+00 TO STA 462+00

SCALE: 1"=50'
 DATE: MAY 2007

DRAWN BY
 CHECKED BY

PLOT DATE = 5/22/2007
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 USER NAME = #USER#

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	39
STA. 462+00		TO STA. 477+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

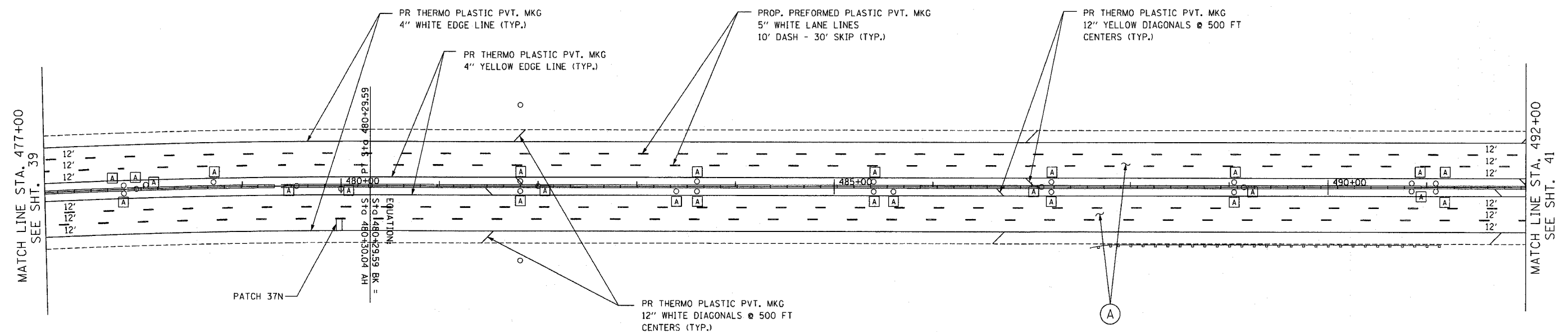
NOTE:
SEE "MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS"
FOR PLACEMENT & TYPE
OF RAISED REFLECTIVE
PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
F.A.I. 94 (I-94)
STA 462+00 TO STA 477+00
SCALE: 1"=50'
DATE MAY 2007
DRAWN BY
CHECKED BY

PLOT DATE = 5/22/2007
PLOT SCALE = 1"=50'
USER NAME = 08YOUT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	40
STA. 477+00		TO STA. 492+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS"
FOR PLACEMENT & TYPE
OF RAISED REFLECTIVE
PAVEMENT MARKERS

REVISIONS	
NAME	DATE

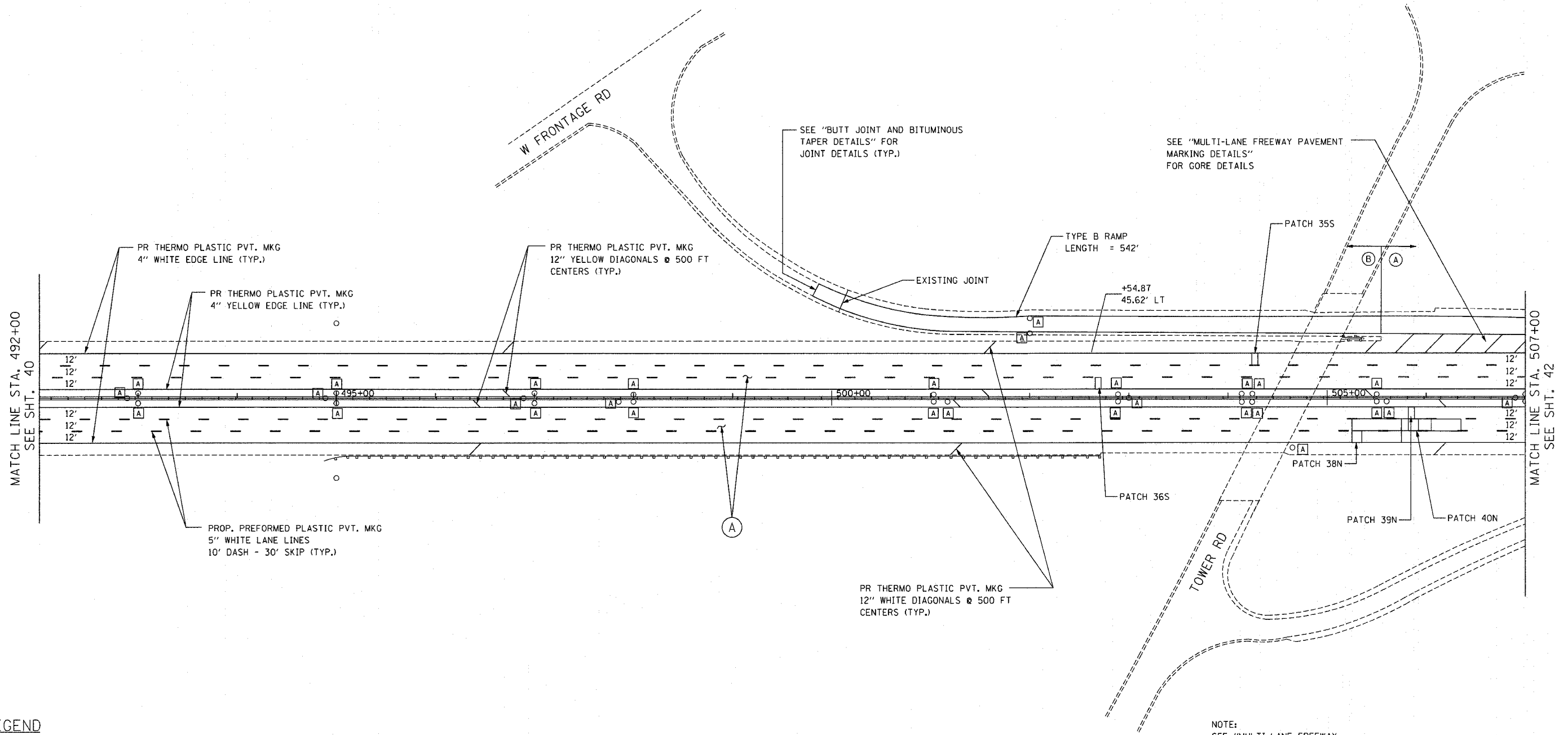
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
F.A.I. 94 (I-94)
STA 477+00 TO STA 492+00

SCALE: 1"=50'
DATE: MAY 2007

DRAWN BY
CHECKED BY

PLOT DATE = 5/22/2007
FILE NAME = #FILE#
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	41
STA. 492+00		TO STA. 507+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

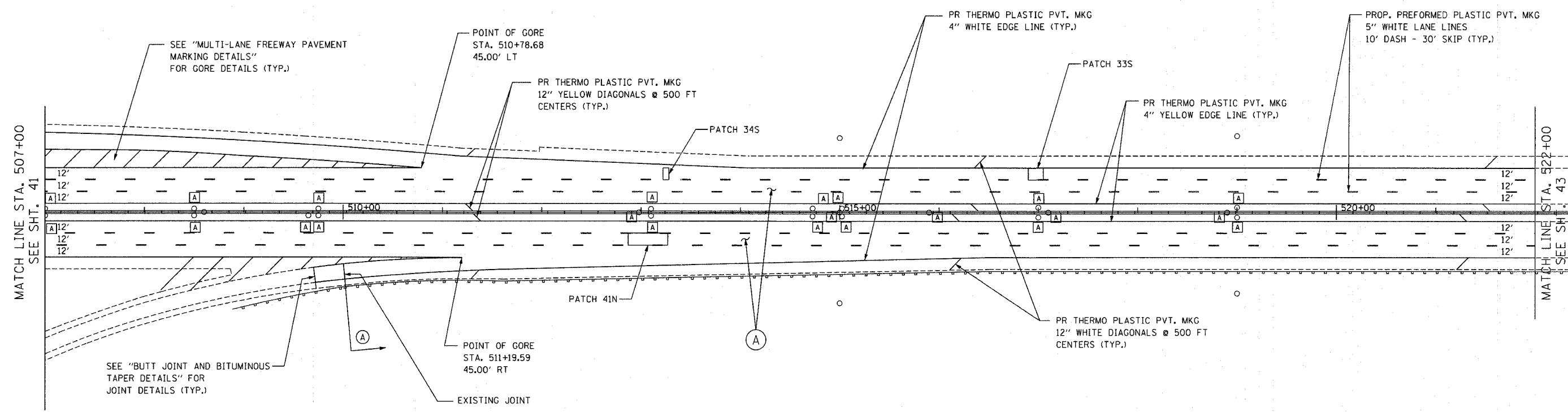
NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 492+00 TO STA 507+00
 SCALE: 1"=50'
 DATE MAY 2007
 DRAWN BY
 CHECKED BY

PLOT DATE = 5/22/2007
 FILE NAME = F141L19
 PLOT SCALE = 8/32/05
 USER NAME = GREGOUT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	42
STA. 507+00		TO STA. 522+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR GORE DETAILS (TYP.)

POINT OF GORE STA. 510+78.68 45.00' LT

PR THERMO PLASTIC PVT. MKG 12" YELLOW DIAGONALS @ 500 FT CENTERS (TYP.)

PR THERMO PLASTIC PVT. MKG 4" WHITE EDGE LINE (TYP.)

PATCH 33S

PR THERMO PLASTIC PVT. MKG 4" YELLOW EDGE LINE (TYP.)

PROP. PREFORMED PLASTIC PVT. MKG 5" WHITE LANE LINES 10' DASH - 30' SKIP (TYP.)

MATCH LINE STA. 507+00
SEE SHT. 41

MATCH LINE STA. 522+00
SEE SHT. 43

SEE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" FOR JOINT DETAILS (TYP.)

POINT OF GORE STA. 511+19.59 45.00' RT

EXISTING JOINT

PATCH 41N

PR THERMO PLASTIC PVT. MKG 12" WHITE DIAGONALS @ 500 FT CENTERS (TYP.)

LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

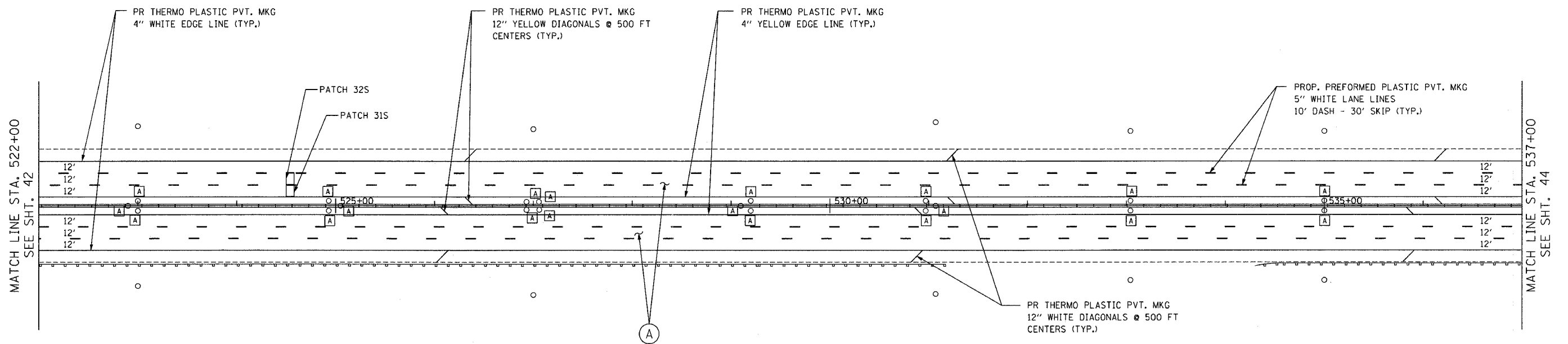
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 507+00 TO STA 522+00

SCALE: 1"=50'
 DATE: MAY 2007
 DRAWN BY:
 CHECKED BY:

PLOT DATE = 5/22/2007
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	43
STA. 522+00		TO STA. 537+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS"
FOR PLACEMENT & TYPE
OF RAISED REFLECTIVE
PAVEMENT MARKERS

REVISIONS	
NAME	DATE

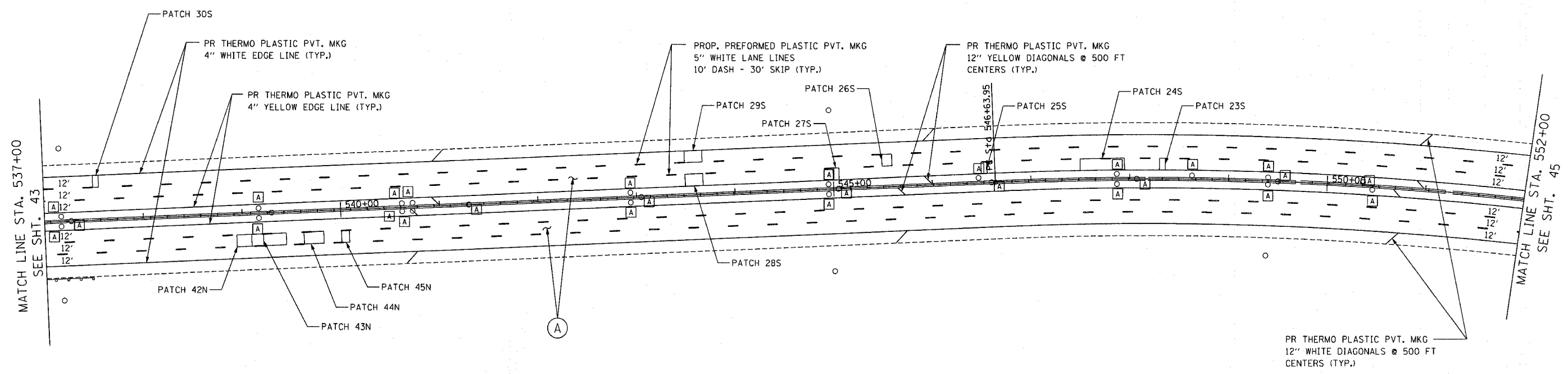
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
F.A.I. 94 (I-94)
STA 522+00 TO STA 537+00

SCALE: 1"=50'
DATE MAY 2007

DRAWN BY
CHECKED BY

PLOT DATE = 5/22/2007
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PLOT SCALE = BSCALE
USER NAME = BRFOUT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	44
STA. 537+00		TO STA. 552+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

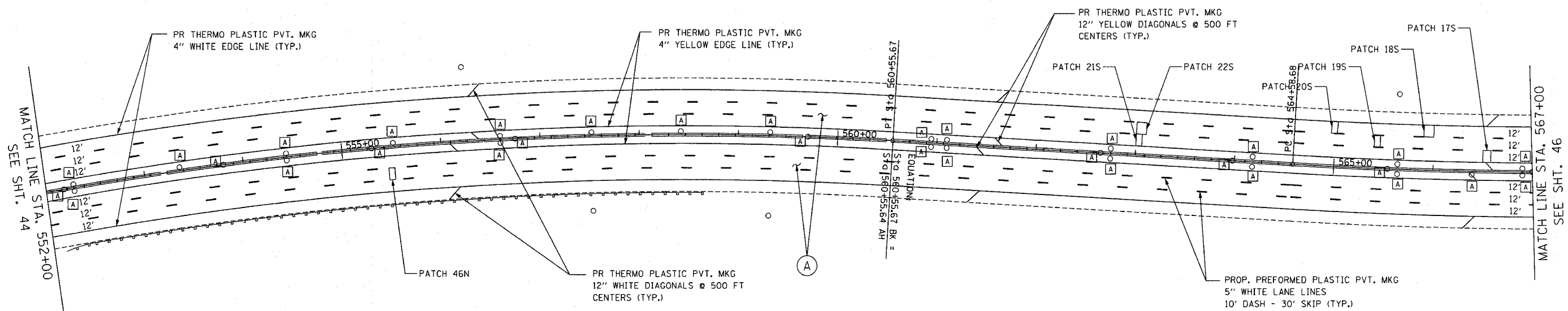
NOTE:
 SEE "MULTI-LANE FREEWAY
 PAVEMENT MARKING DETAILS"
 FOR PLACEMENT & TYPE
 OF RAISED REFLECTIVE
 PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 537+00 TO STA 552+00
 SCALE: 1"=50'
 DATE: MAY 2007
 DRAWN BY: _____
 CHECKED BY: _____

PLOT DATE = 5/22/2007
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	45
STA. 552+00		TO STA. 567+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

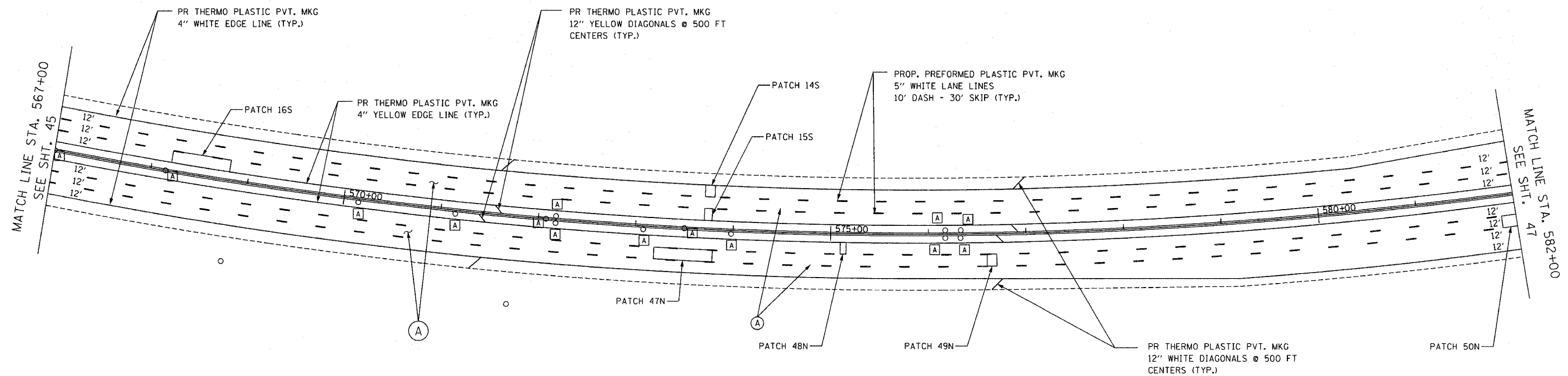
NOTE:
SEE "MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS"
FOR PLACEMENT & TYPE
OF RAISED REFLECTIVE
PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 552+00 TO STA 567+00
 SCALE: 1"=50'
 DATE: MAY 2007
 DRAWN BY: _____
 CHECKED BY: _____

PLOT DATE = 5/22/2007
 FILE NAME = BFILEP
 PLOT SCALE = BSCALE
 USER NAME = DBFGMT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	46
STA. 567+00		TO STA. 582+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS"
FOR PLACEMENT & TYPE
OF RAISED REFLECTIVE
PAVEMENT MARKERS

REVISIONS	
NAME	DATE

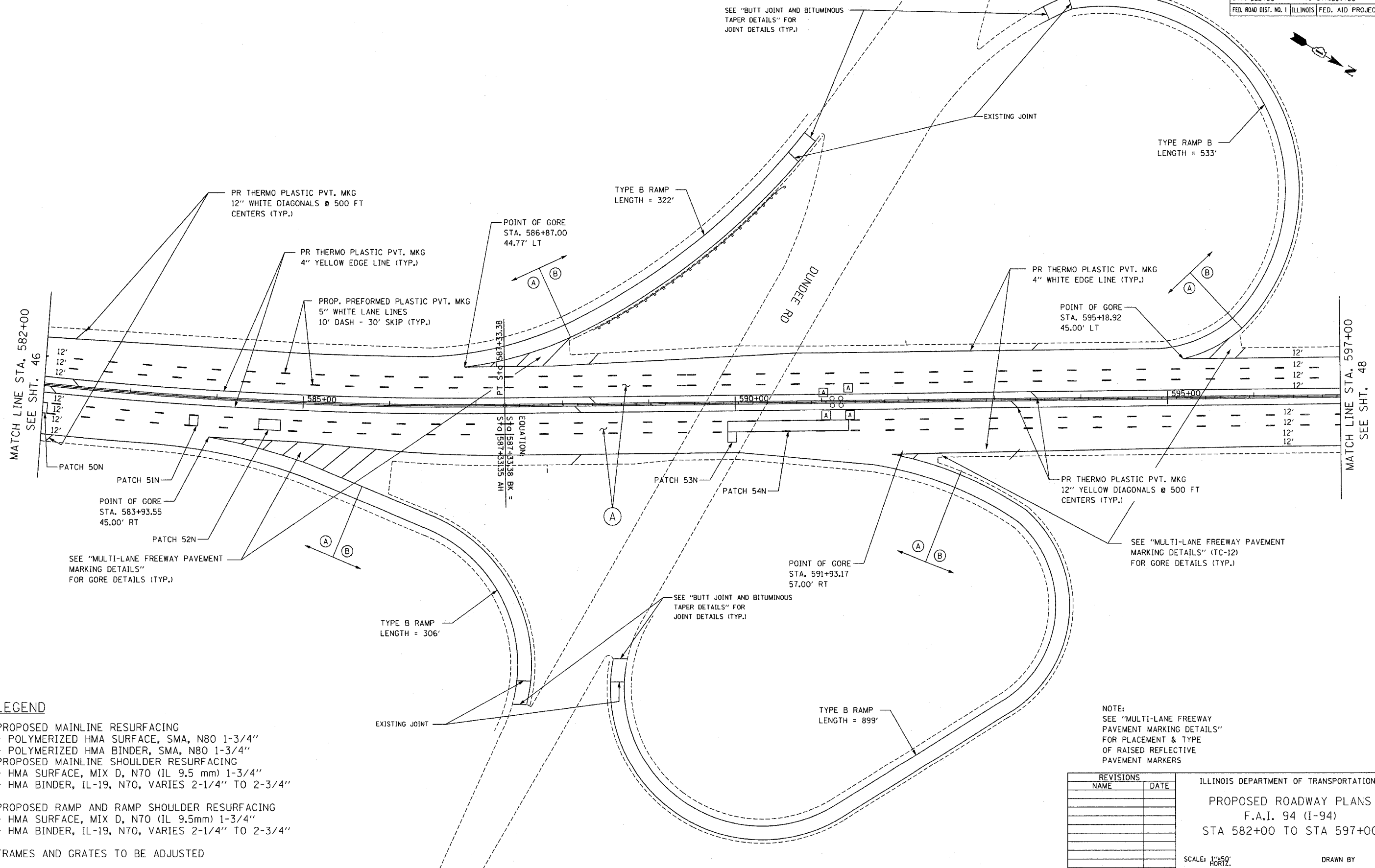
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
F.A.I. 94 (I-94)
STA 567+00 TO STA 582+00

SCALE: 1"=50'
DATE: MAY 2007

DRAWN BY
CHECKED BY

PLOT DATE = 5/22/2007
FILE NAME = BFILE18
PLOT SCALE = HSCALE18
USER NAME = GPTGOUT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	47
STA. 582+00		TO STA. 597+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

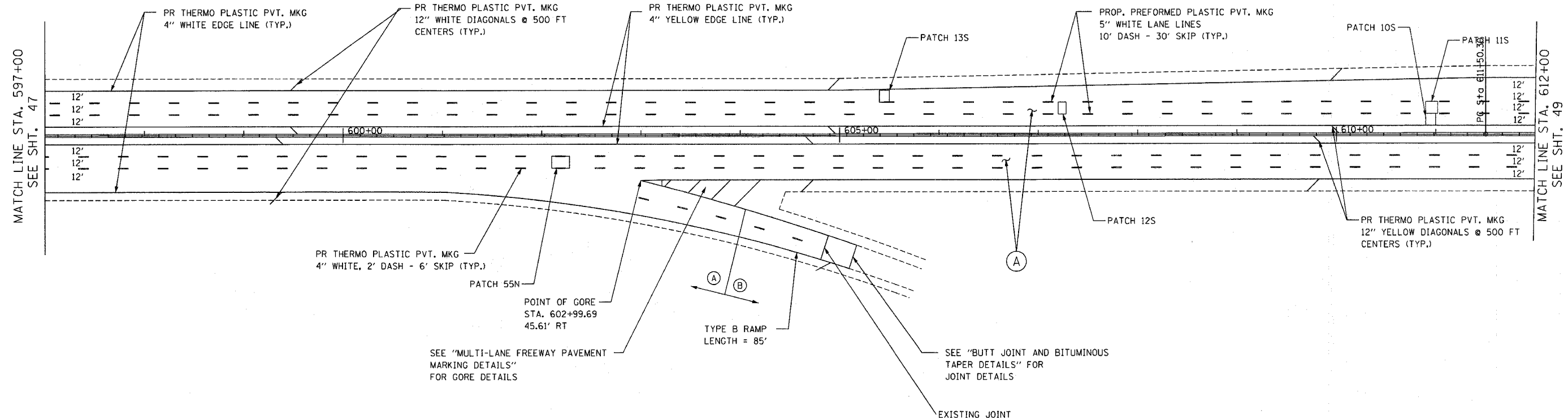
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 582+00 TO STA 597+00

SCALE: 1"=50'
 HORIZ.
 DATE MAY 2007
 DRAWN BY
 CHECKED BY

PLOT DATE = 5/22/2007
 PLOT SCALE = 1"=50'
 PLOT USER = J. B. WILSON

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	48
STA. 597+00		TO STA. 612+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

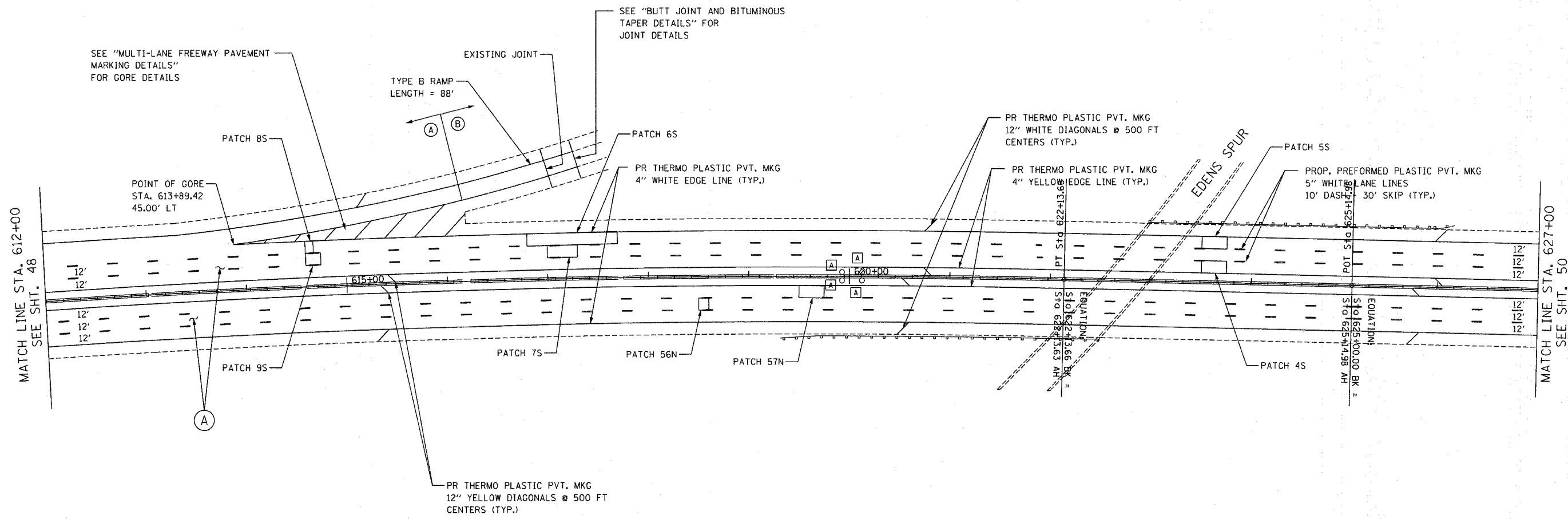
NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 597+00 TO STA 612+00
 SCALE: 1"=50'
 DATE: MAY 2007
 DRAWN BY: _____
 CHECKED BY: _____

PLOT DATE: 5/22/2007
 FILE NAME: I94RESURF.PLT
 PLOT SCALE: 1"=50'
 USER NAME: gbrout

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	49
STA. 612+00		TO STA. 627+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 612+00 TO STA 627+00

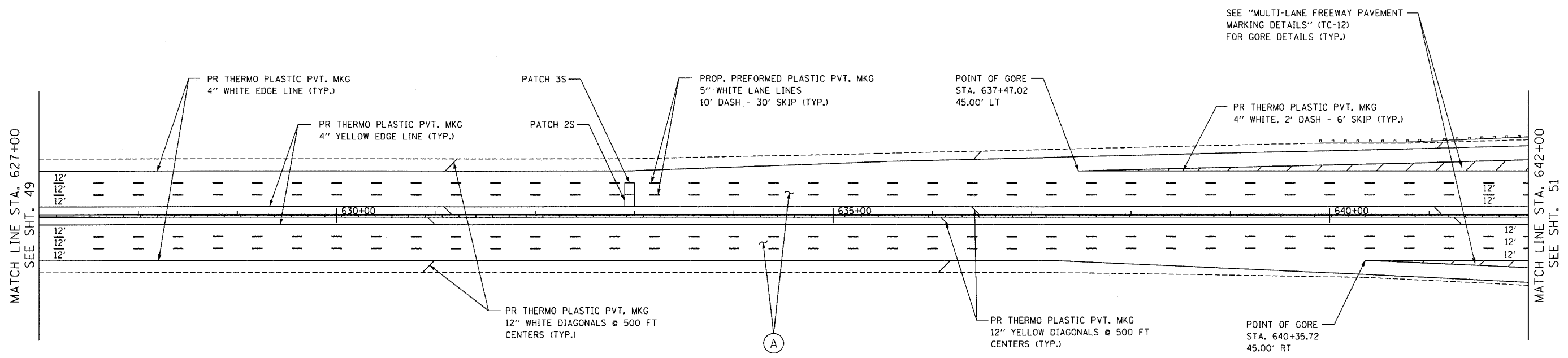
SCALE: 1"=50'
 DATE MAY 2007

DRAWN BY
 CHECKED BY

Edens I 94 Resurfacing Project

PLOT DATE = 5/22/2007
 FILE NAME = 8FILEL9
 PLOT SCALE = 8SCALE8
 USER NAME = 087GUT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	50
STA. 627+00		TO STA. 642+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B) PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A) FRAMES AND GRATES TO BE ADJUSTED

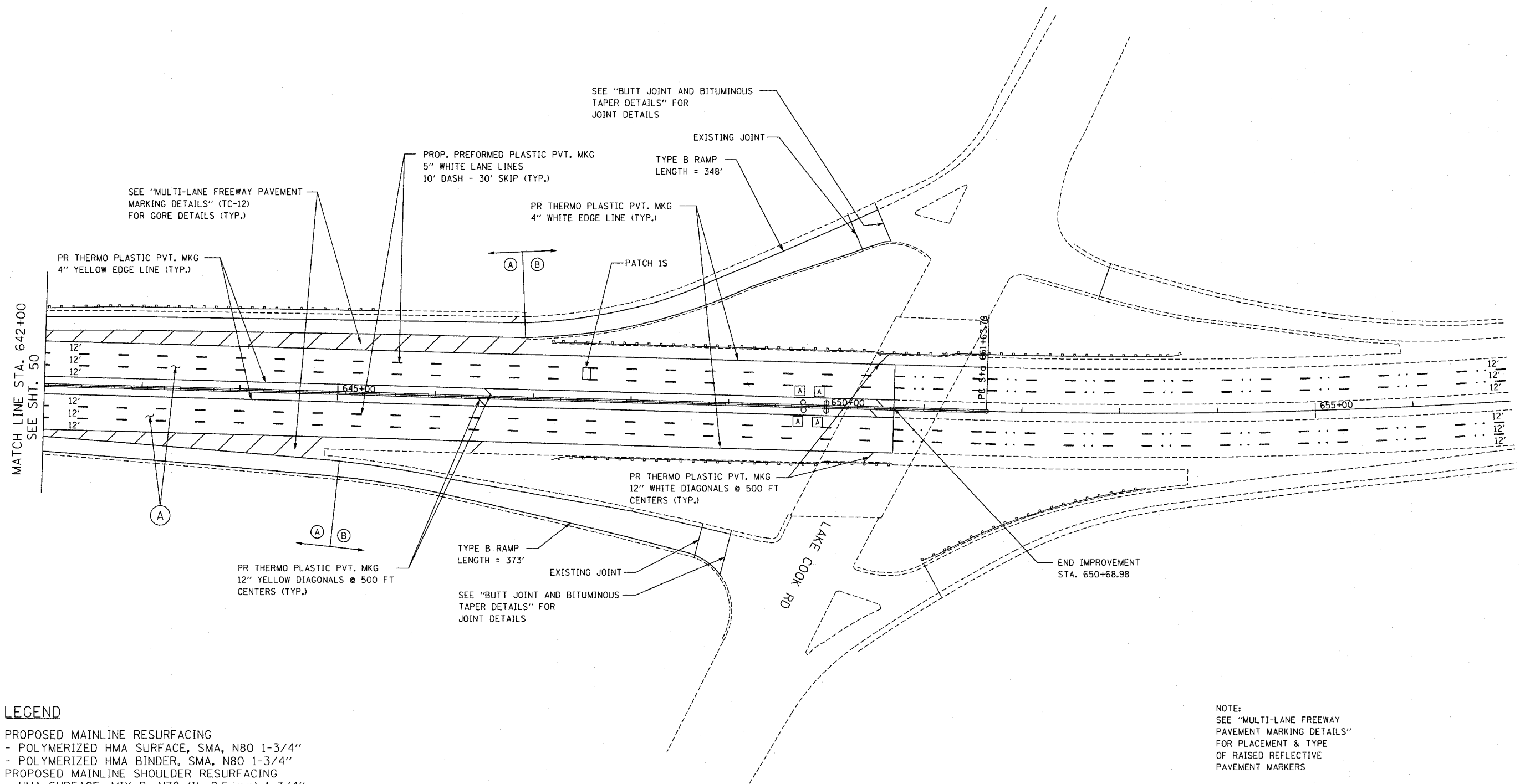
NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 627+00 TO STA 642+00
 SCALE: 1"=50'
 DATE MAY 2007
 DRAWN BY
 CHECKED BY

PLOT DATE = 5/22/2007
 FILE NAME = 8FILEL8
 PLOT SCALE = 8SCALE8
 USER NAME = 8RFGUJ

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	51
STA. 642+00		TO STA. 657+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- (A)** PROPOSED MAINLINE RESURFACING
 - POLYMERIZED HMA SURFACE, SMA, N80 1-3/4"
 - POLYMERIZED HMA BINDER, SMA, N80 1-3/4"
- PROPOSED MAINLINE SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5 mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (B)** PROPOSED RAMP AND RAMP SHOULDER RESURFACING
 - HMA SURFACE, MIX D, N70 (IL 9.5mm) 1-3/4"
 - HMA BINDER, IL-19, N70, VARIES 2-1/4" TO 2-3/4"
- (A)** FRAMES AND GRATES TO BE ADJUSTED

NOTE:
SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT & TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED ROADWAY PLANS
 F.A.I. 94 (I-94)
 STA 642+00 TO STA 657+00
 SCALE: 1"=50'
 DATE MAY 2007
 DRAWN BY _____
 CHECKED BY _____

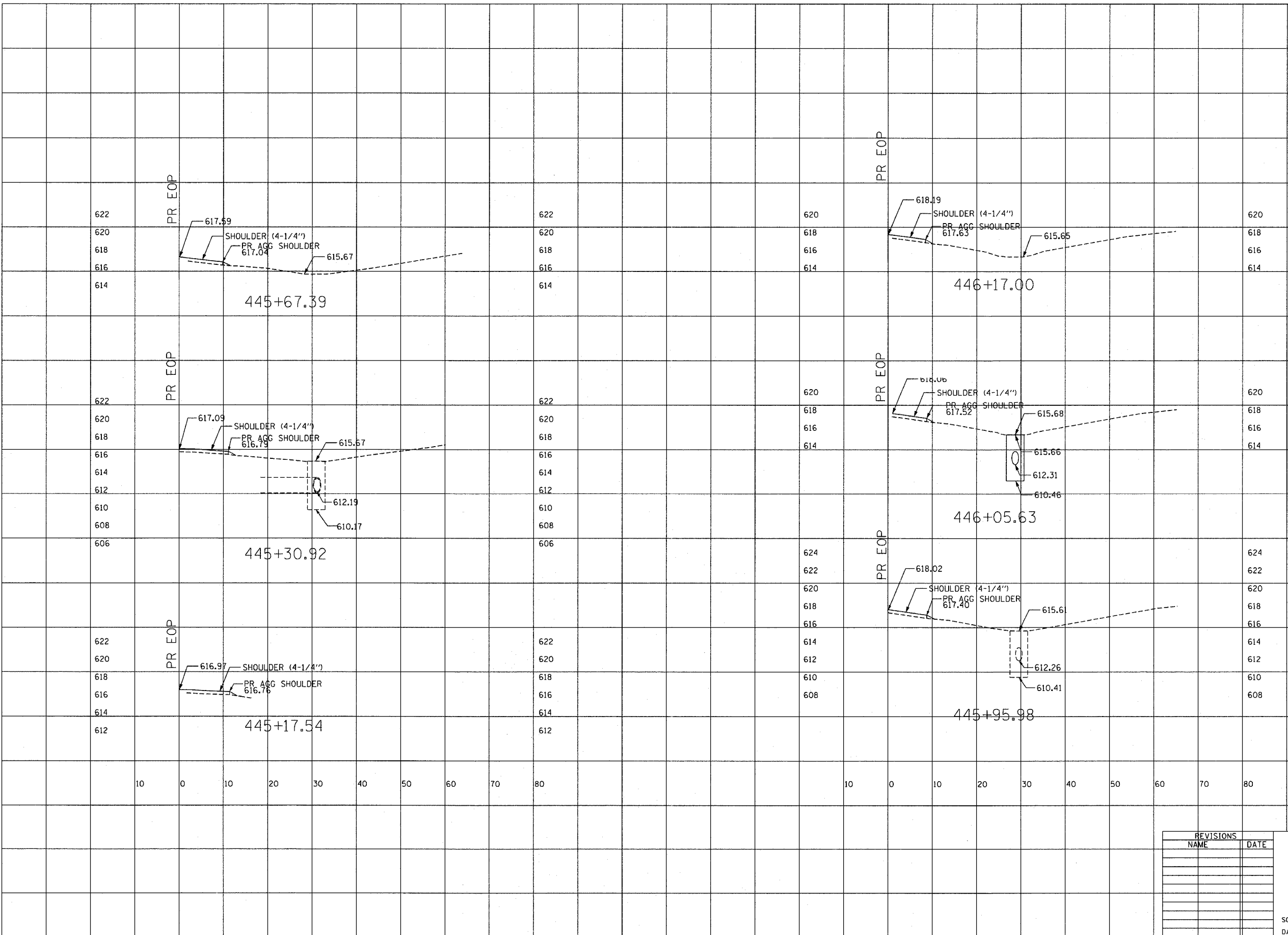
PLOT DATE = 5/22/2007
 PLOT SCALE = RESCALE
 USER NAME = chf/out

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 RS	COOK	91	52
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE _____
 SURVEYED _____
 PLOTTED _____
 CHECKED _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 SURVEYED _____
 PLOTTED _____
 CHECKED _____
 AREAS CHECKED _____
 NO. _____

PLOT DATE = 8/22/2007
 FILE NAME = 01111111
 PLOT SCALE = 1/4"=1'-0"
 USER NAME = default



REVISIONS	
NAME	DATE

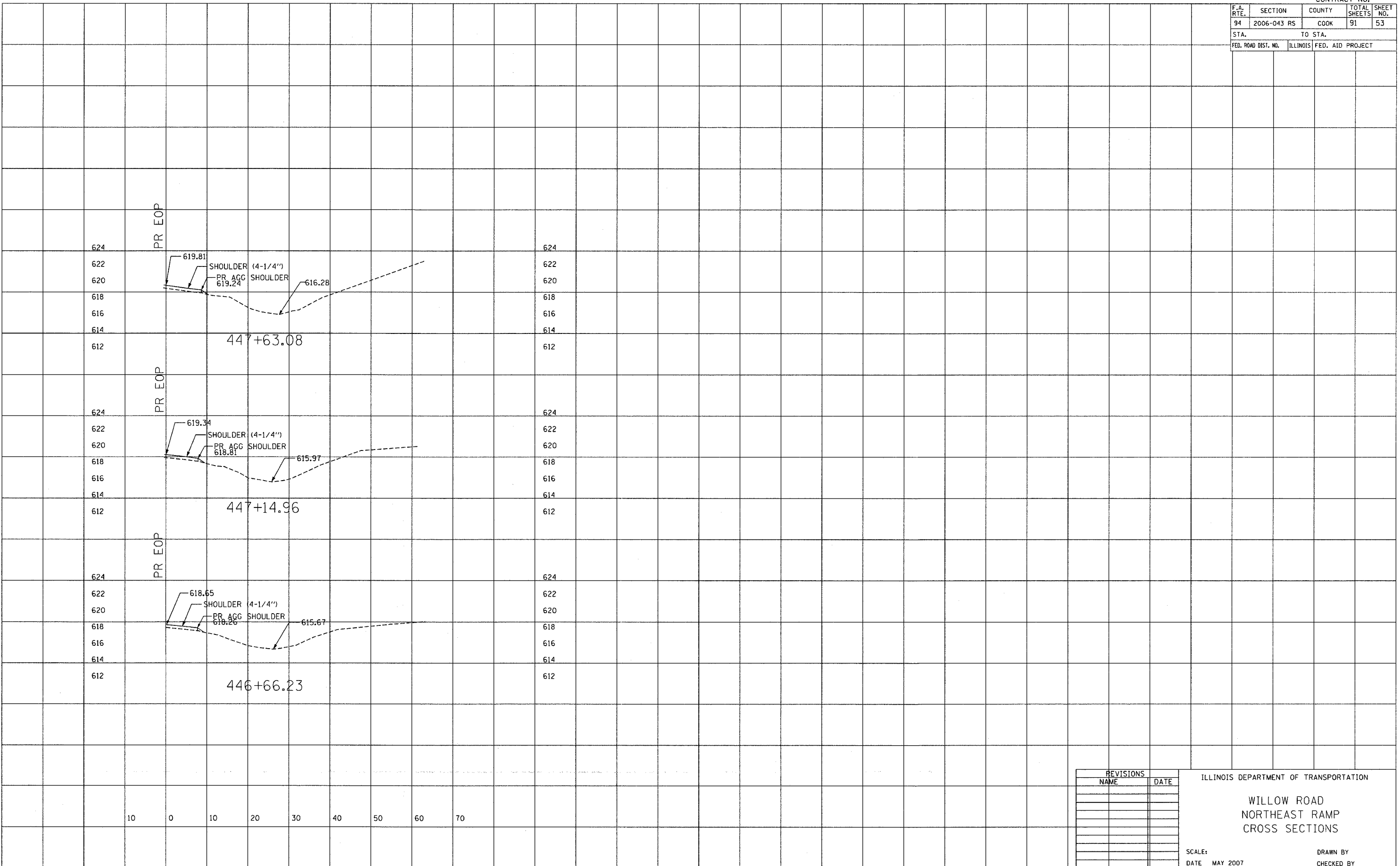
ILLINOIS DEPARTMENT OF TRANSPORTATION
 WILLOW ROAD
 NORTHEAST RAMP
 CROSS SECTIONS
 SCALE: _____ DATE MAY 2007 DRAWN BY _____ CHECKED BY _____

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 RS	COOK	91	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED	DATE
PLOTTED	FILED	
NOTE BOOK	NO.	
AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	DATE
PLOTTED	FILED	
NOTE BOOK	NO.	
AREAS CHECKED		

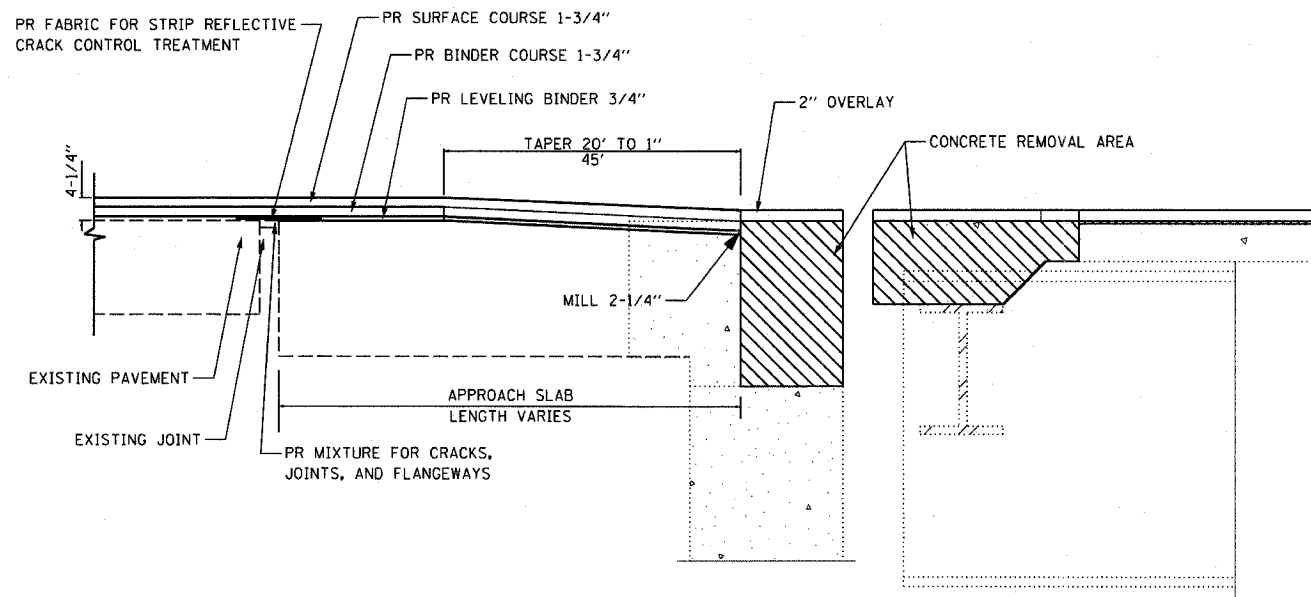
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 USER NAME = drf#



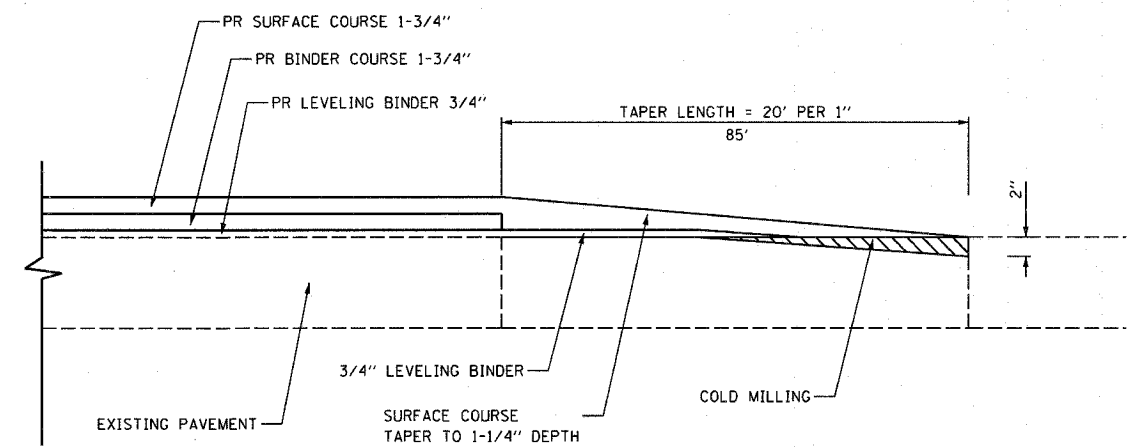
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 WILLOW ROAD
 NORTHEAST RAMP
 CROSS SECTIONS
 SCALE: DATE MAY 2007
 DRAWN BY
 CHECKED BY

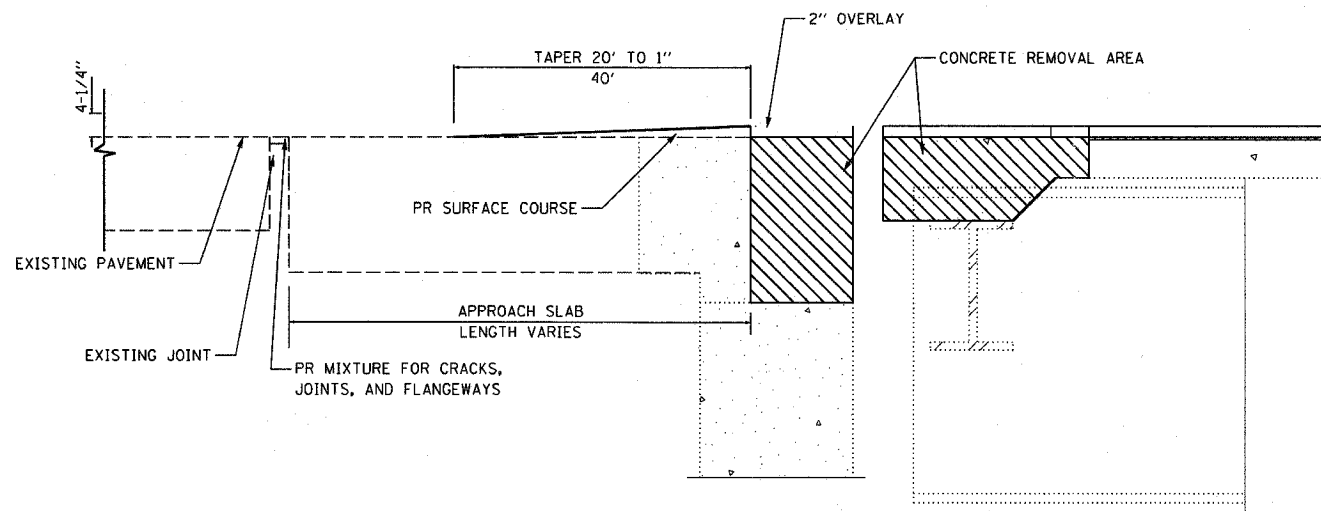
CONTRACT NO. 62636				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	54
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			



**RESURFACING TRANSITION DETAIL
ROADWAY TO BRIDGE JOINT
(NTS)**



**BUTT JOINT DETAIL
HMA TO PCC
MAINLINE TRANSITION**



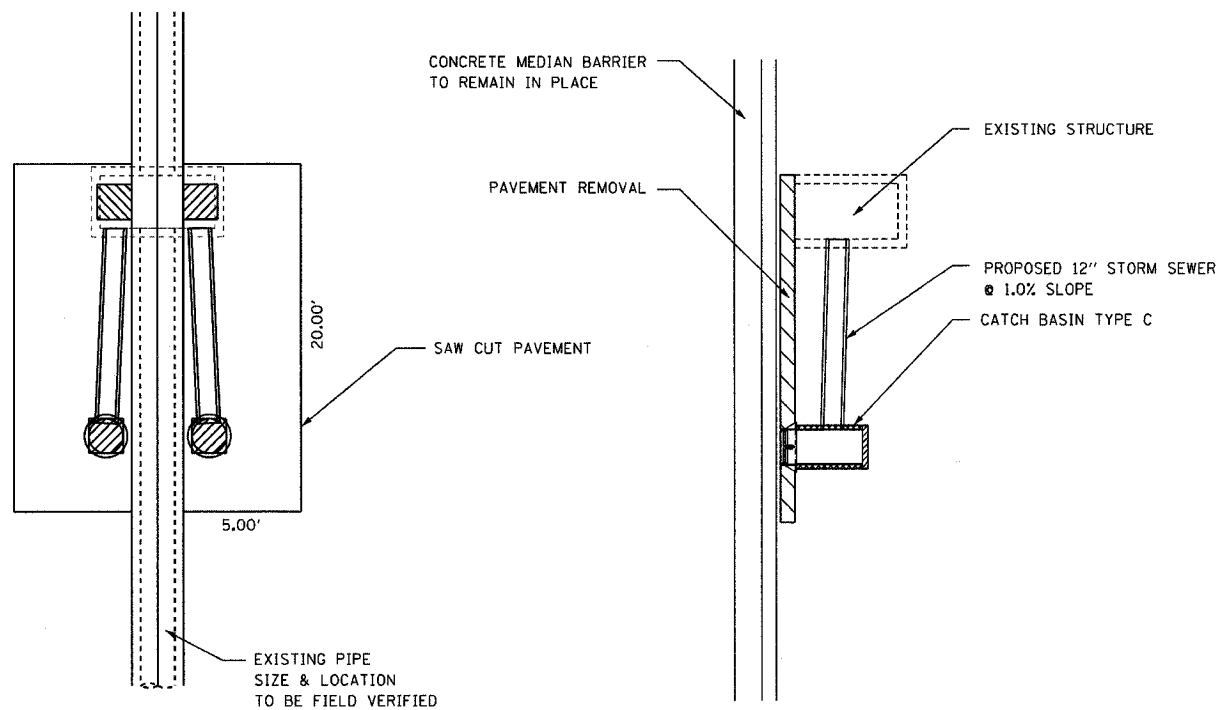
**TEMPORARY WEDGE DETAIL
BRIDGE JOINT TO ROADWAY
(NTS)**

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		RESURFACING TRANSITION DETAILS ROADWAY TO BRIDGE JOINT & HMA TO PCC BUTT JOINT
SCALE:	DRAWN BY	
DATE JUNE 2007	CHECKED BY	

Edens I 94 Resurfacing Project

PLOT DATE = 06/18/2007
PLOT SCALE = 1/8" = 1'-0"
USER NAME = default

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2003-071 RS	COOK	91	55
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

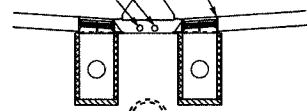


PLAN

22.22 50 YD OF PAVEMENT REMOVAL
 2 X 10 LIN FT OF 12" STORM SEWER
 2 EACH CATCH BASIN TYPE C 2' DIA.
 2 EACH TYPE 24 F & G
 THE CONCRETE MEDIAN BARRIER AND BASE ARE TO REMAIN IN PLACE.
 (THE EXISTING ELECTRICAL DUCTS ARE TO REMAIN IN PLACE)
 SUB-BASE GRANULAR MATERIAL
 10 INCH BITUMINOUS SHOULDER

RIM ELEVATION = EXISTING PAVEMENT ELEV.

EXISTING CONDUITS TO REMAIN IN PLACE



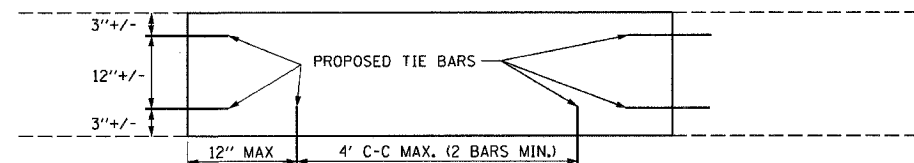
EXISTING PIPE SIZE & LOCATION TO BE FIELD VERIFIED

SECTION

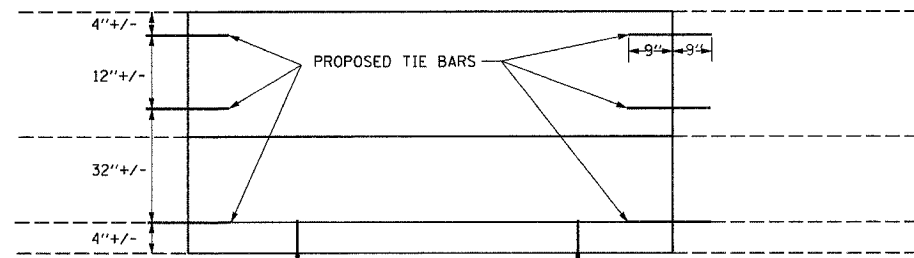
NOTE:

THE CONTRACTOR SHALL EXERCISE EXTREME CARE WITH THE EXISTING CONDUITS IN THE BARRIER WALL AND WALL FOUNDATIONS. THE CONTRACTOR WILL BE REQUIRED TO REPAIR ANY DAMAGE DONE TO THE CONDUIT TO THE SATISFACTION OF THE ENGINEER. NO SPLICING WILL BE ALLOWED TO ANY CABLE DAMAGED RESULTING FROM THIS WORK. INSTEAD THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE ENTIRE SPAN OF ANY DAMAGED CABLE.

CATCH BASIN DETAIL



HALF DEPTH REPAIR



FULL DEPTH REPAIR

NOTE: ALL BARRIER WALL REPAIR SHALL BE COMPLETED IN ACCORDANCE WITH STATE STANDARD 637001-02 AND SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. REINFORCEMENT SHALL BE INCLUDED AS SHOWN IN STANDARD 637001-02 AND DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS EXCEPT WHEN A REINFORCEMENT CAGE IS ENCOUNTERED. IN SUCH A CASE THE CONTRACTOR SHALL REMOVE THE DAMAGED PORTIONS OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPAIR AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

CONCRETE BARRIER REPAIR DETAIL

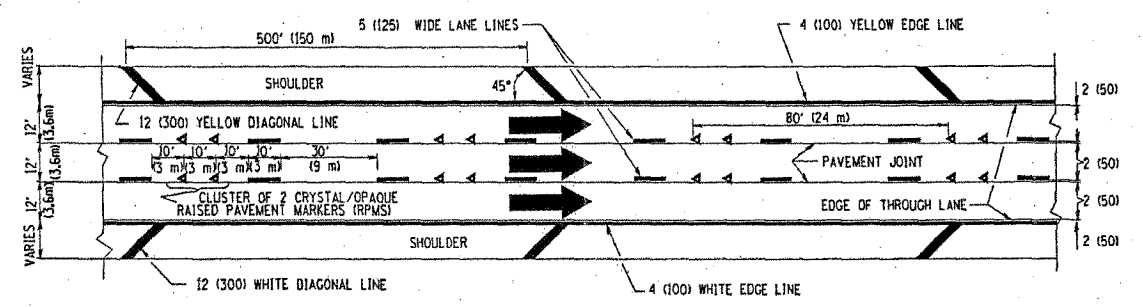
PLOT DATE = 06/18/2007
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = 06/18/07

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		CATCH BASIN DETAIL AND CONCRETE BARRIER REPAIR

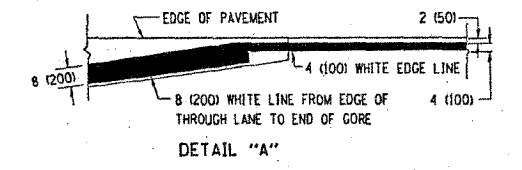
SCALE: N.T.S. DRAWN BY: DP
 DATE: JUNE 2007 CHECKED BY:

CONTRACT NO. 62636				
F.A. RY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 RS	COOK	91	66
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

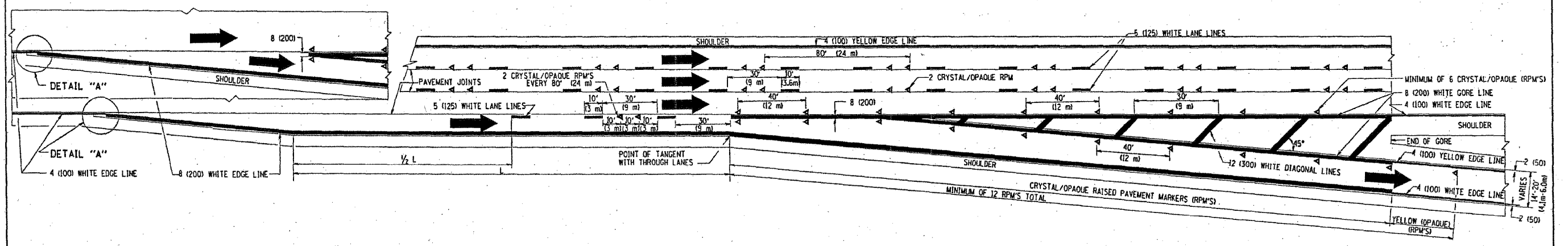
THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH
THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH



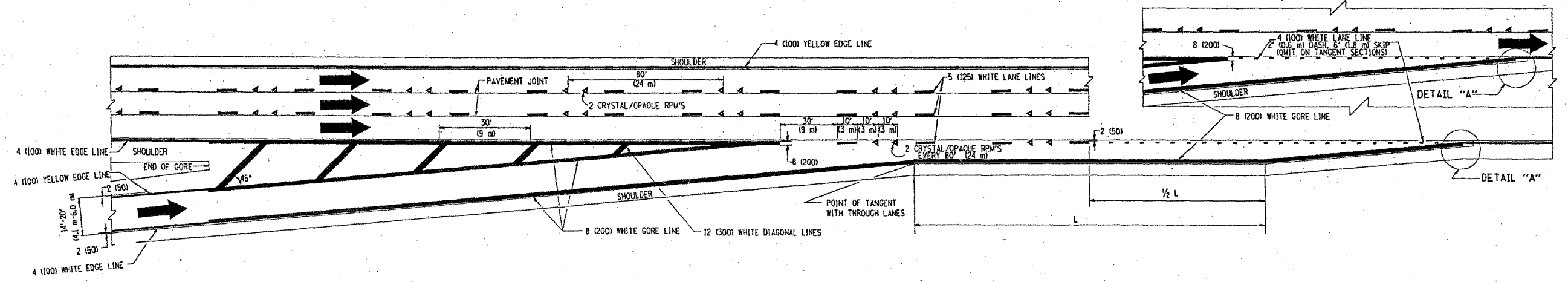
- NOTES:
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
 3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC



TYPICAL EDGE LINES & LANE LINES



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

PLOT DATE = 1/4/2007
 FILE NAME = c:\pwork\msh\msh12.dwg
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = lrcanor

REVISIONS	
NAME	DATE
DWS	1/30
DWS	5/91
AH	3/96
DWS	7/96
JAF	2/06
SPB	1/07

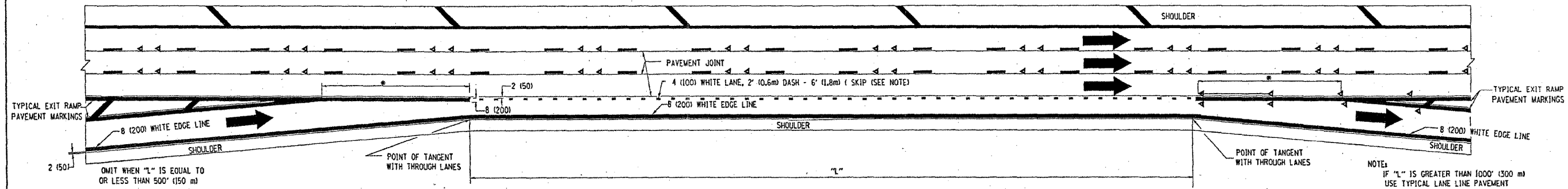
ILLINOIS DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

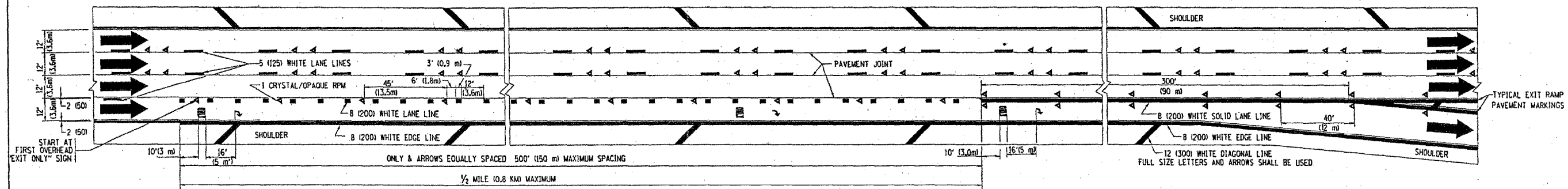
SCALE: NONE
DATE: 1/4/2007

DRAWN BY: C.A.D.D.
CHECKED BY:
TC12 SHEET 1 OF 2
REVISION DATE: 01/01/07

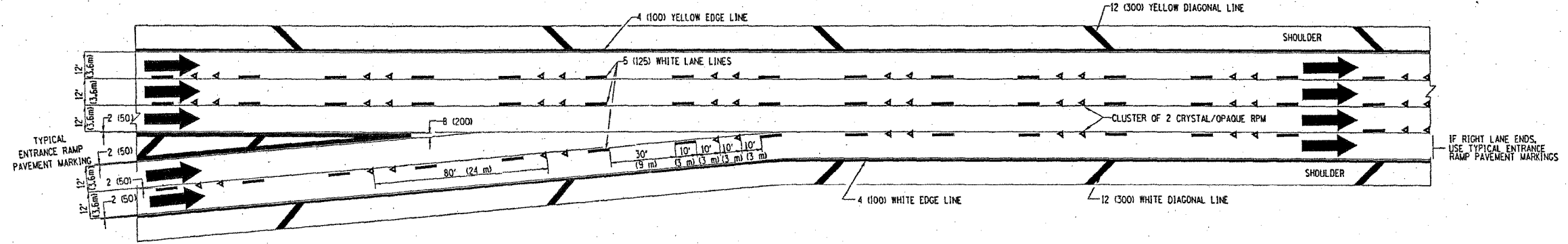
CONTRACT NO. 62636				
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-048 BS	COOK	91	67
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



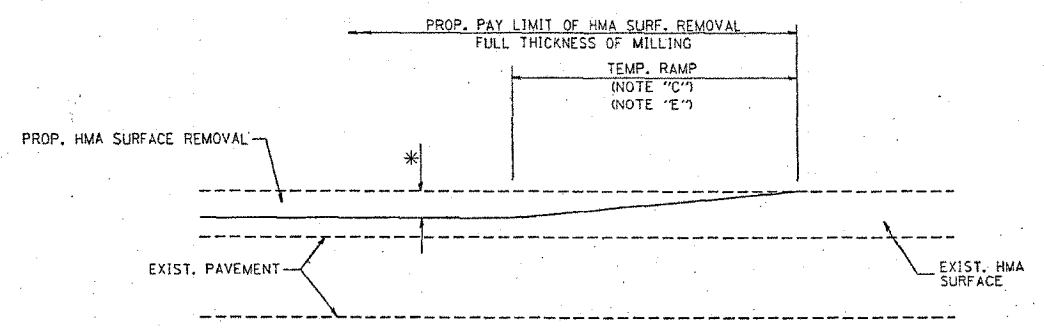
TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

PLOT DATE: 1/16/2007
 FILE NAME: K:\AS\AS12.dwg
 PLOT SCALE: 0.8000" = 1'-0"
 USER NAME: jlp

REVISIONS	
NAME	DATE
DWS	1/30
DWS	5/91
SPB	1/07

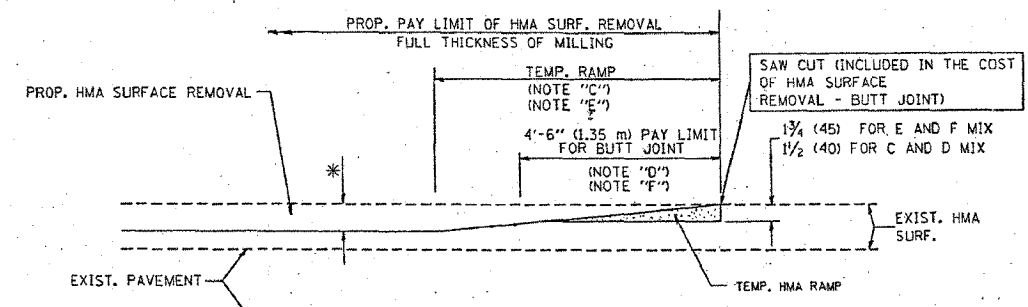
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MULTI-LANE FREEWAY
 PAVEMENT MARKING
 DETAILS
 SCALE: NONE
 DATE: 1/16/2007
 DRAWN BY: C.A.D.D.
 CHECKED BY:
 TC12 SHEET 2 OF 2
 REVISION DATE: 01/01/07

CONTRACT NO. 62636				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84	2006-043 RS	COOK	91	68
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

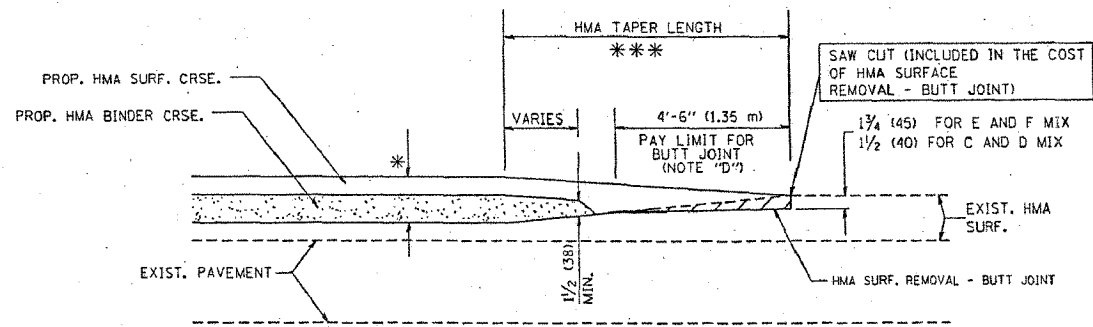
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

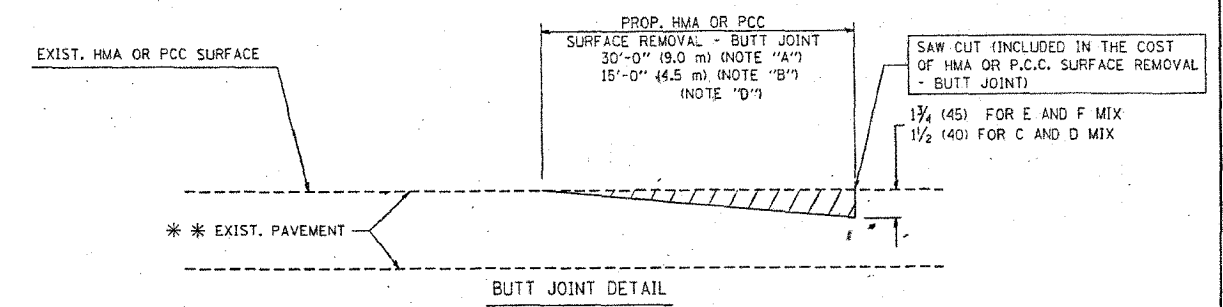
OPTION 2

TYPICAL TEMPORARY RAMP

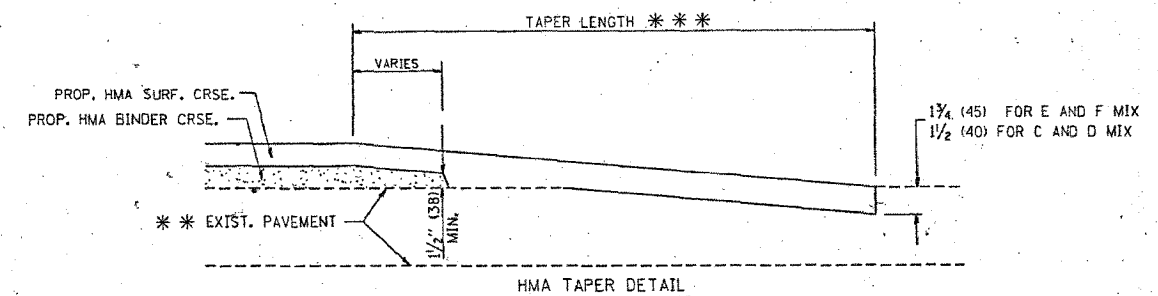


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



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")

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

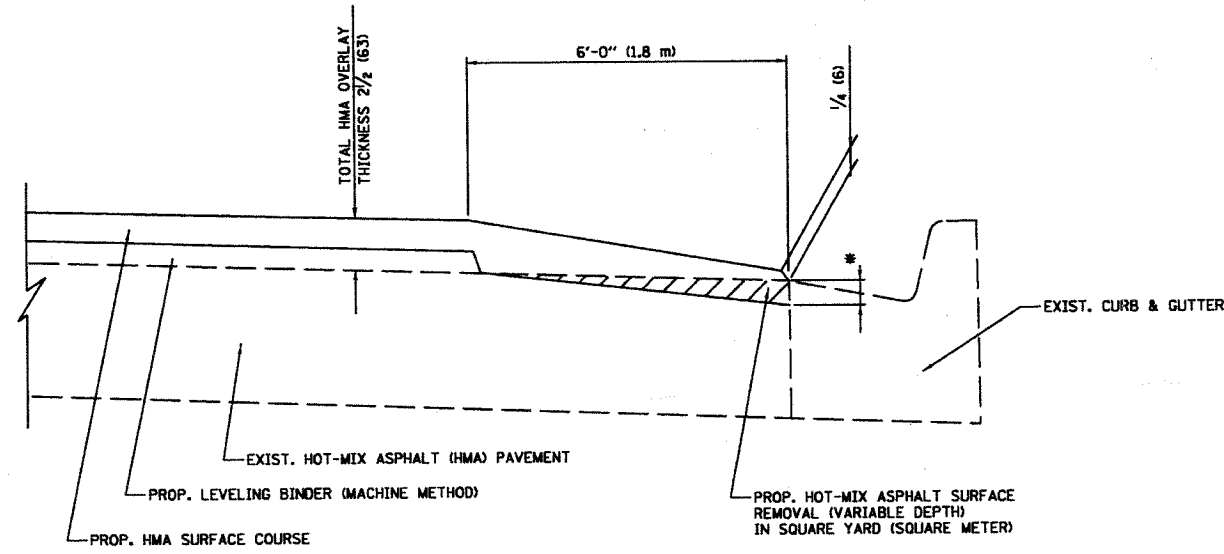
SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 10/31/2006

DRAWN BY
CHECKED BY

BD400-05 (VI=BD32)
REVISION DATE: 01/01/07

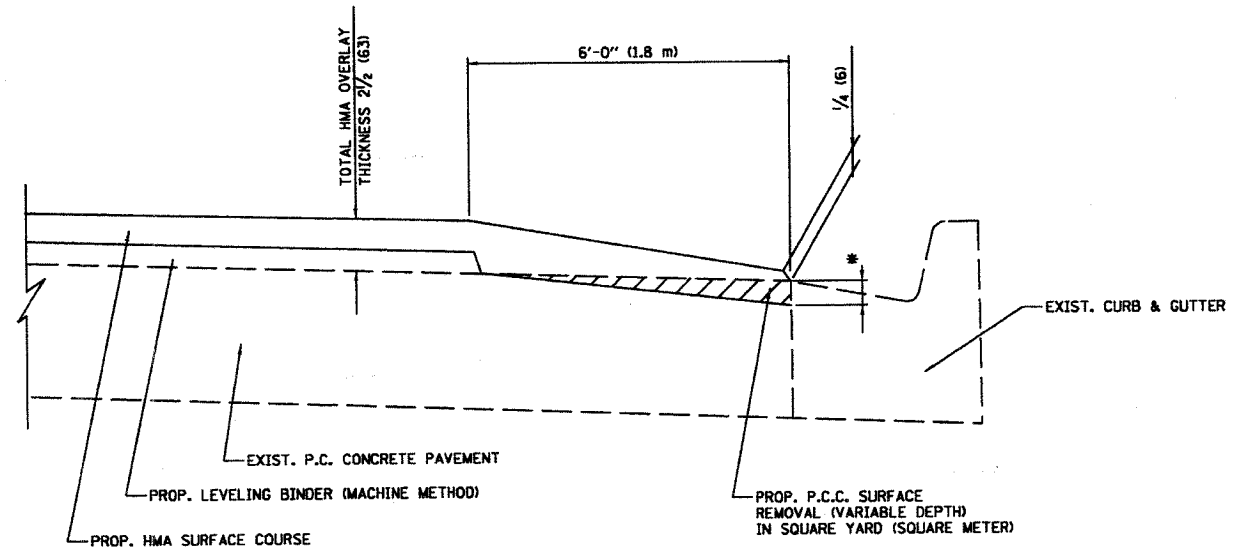
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PLOT SCALE: 0.00000 / 1"
USER NAME: lapan

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2006-043 RS	COOK	91	59
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**HMA TAPER AT
EDGE OF HMA PAVEMENT**

HMA SURFACE		LEVELING BINDER		* MILLING AT GUTTER FLAG
MIX	THICKNESS	THICKNESS		
C OR D	1/2 (38)	1 (25)	1/4 (33)	
F	1 3/4 (44)	3/4 (19)	1/2 (38)	



**HMA TAPER AT
EDGE OF P.C.C. PAVEMENT**

HMA SURFACE		LEVELING BINDER		* MILLING AT GUTTER FLAG
MIX	THICKNESS	THICKNESS		
C OR D	1/2 (38)	1 (25)	1/4 (33)	
F	1 3/4 (44)	3/4 (19)	1/2 (38)	

NOTE:

The proposed HMA Surface Removal (Variable Depth) and PCC Surface Removal (Variable Depth) shall be performed in accordance with Section 440 of the Standard Specifications. This work will be paid for at the contract unit price per square yard for HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH) and PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH).

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

REVISIONS	
NAME	DATE
R. SHAH	09/10/94
R. SHAH	10/25/94
A. ABBAS	05/05/99
E. GOMEZ	12/21/00
R. BORD	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HMA TAPER AT
EDGE OF PAVEMENT**

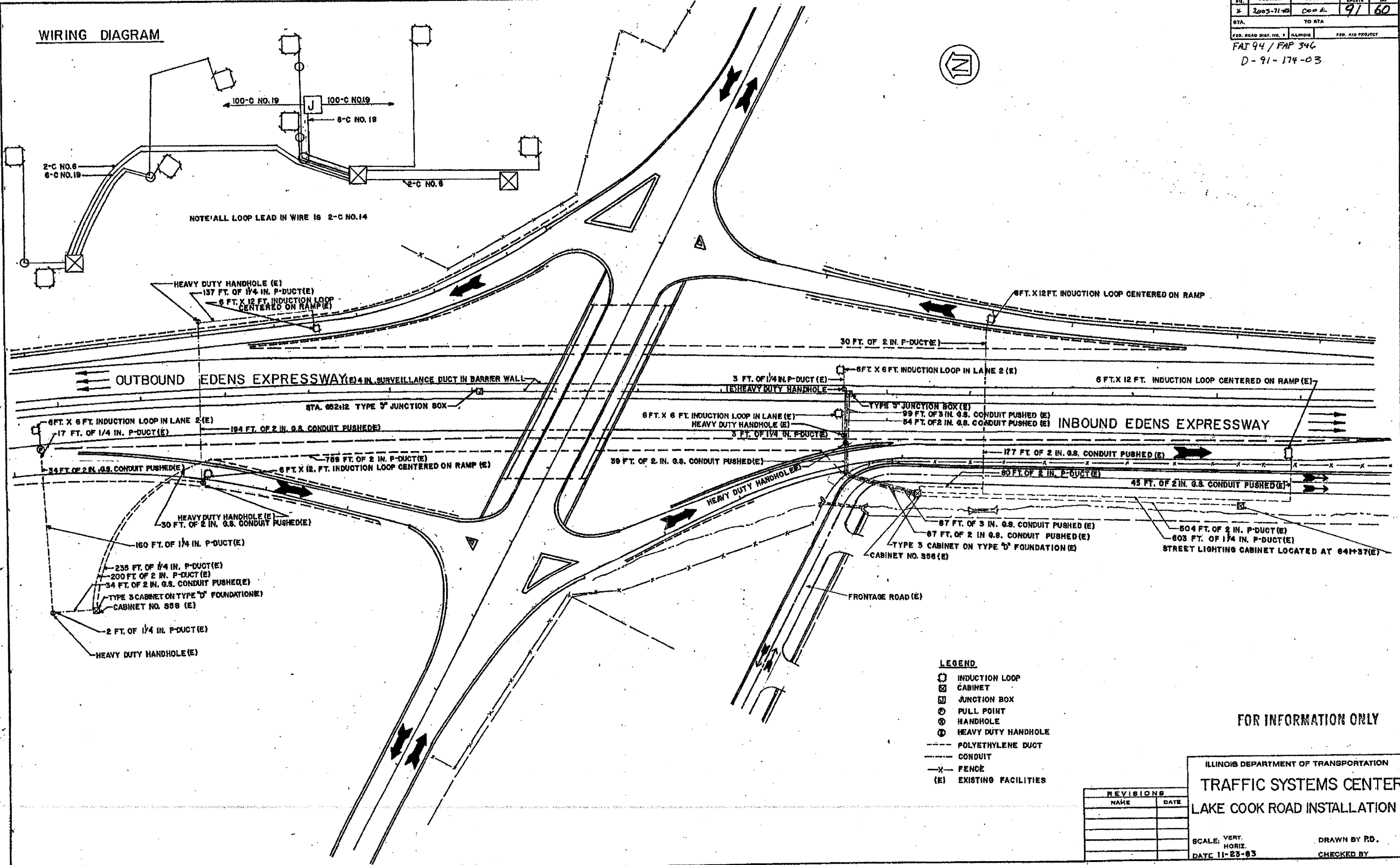
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PLOT DATE: 10/31/2006
DRAWN BY: JS
CHECKED BY: A. ABBAS
BD400-06 (BD33)
REVISION DATE: 01/01/07

6-26-07

PLOT DATE: 10/31/2006
FILE NAME: I:\PROJECTS\2006\2006-043 RS\2006-043 RS.dwg
USER: HMAE1

F.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
X	2005-71-05	COOK	91	60
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
FAT 94 / FAP 346				
D-91-174-03				

WIRING DIAGRAM



NOTE: ALL LOOP LEAD IN WIRE IS 2-C NO. 14

- LEGEND**
- INDUCTION LOOP
 - ▣ CABINET
 - ⊠ JUNCTION BOX
 - ⊙ PULL POINT
 - ⊕ HANDHOLE
 - ⊕ HEAVY DUTY HANDHOLE
 - POLYETHYLENE DUCT
 - CONDUIT
 - X- FENCE
 - (E) EXISTING FACILITIES

FOR INFORMATION ONLY

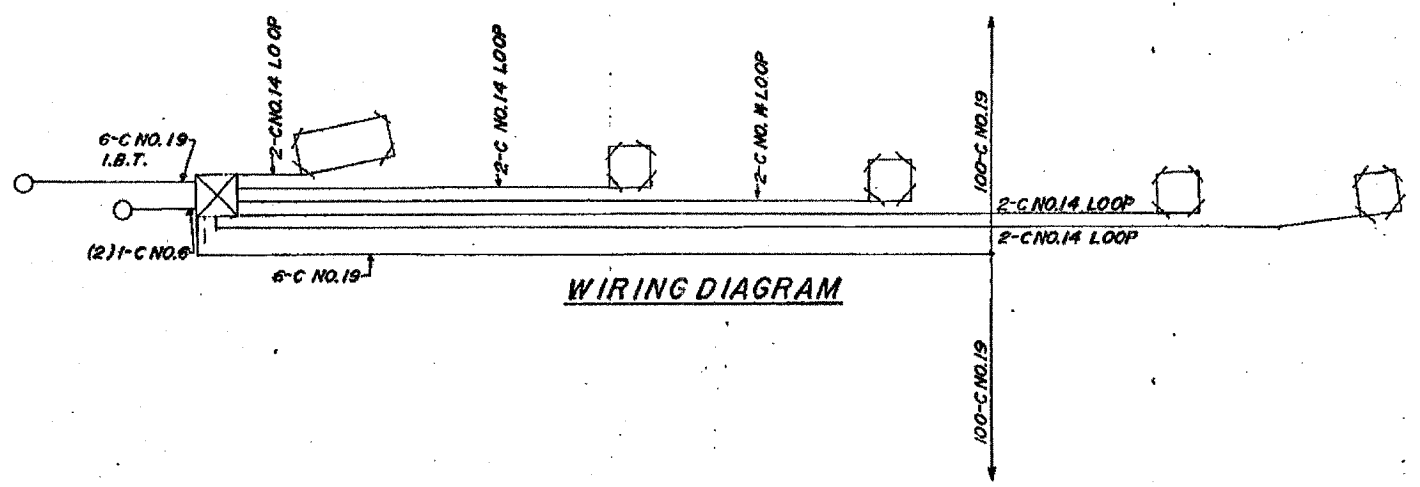
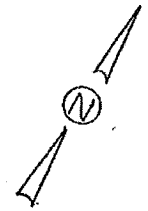
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER
 LAKE COOK ROAD INSTALLATION

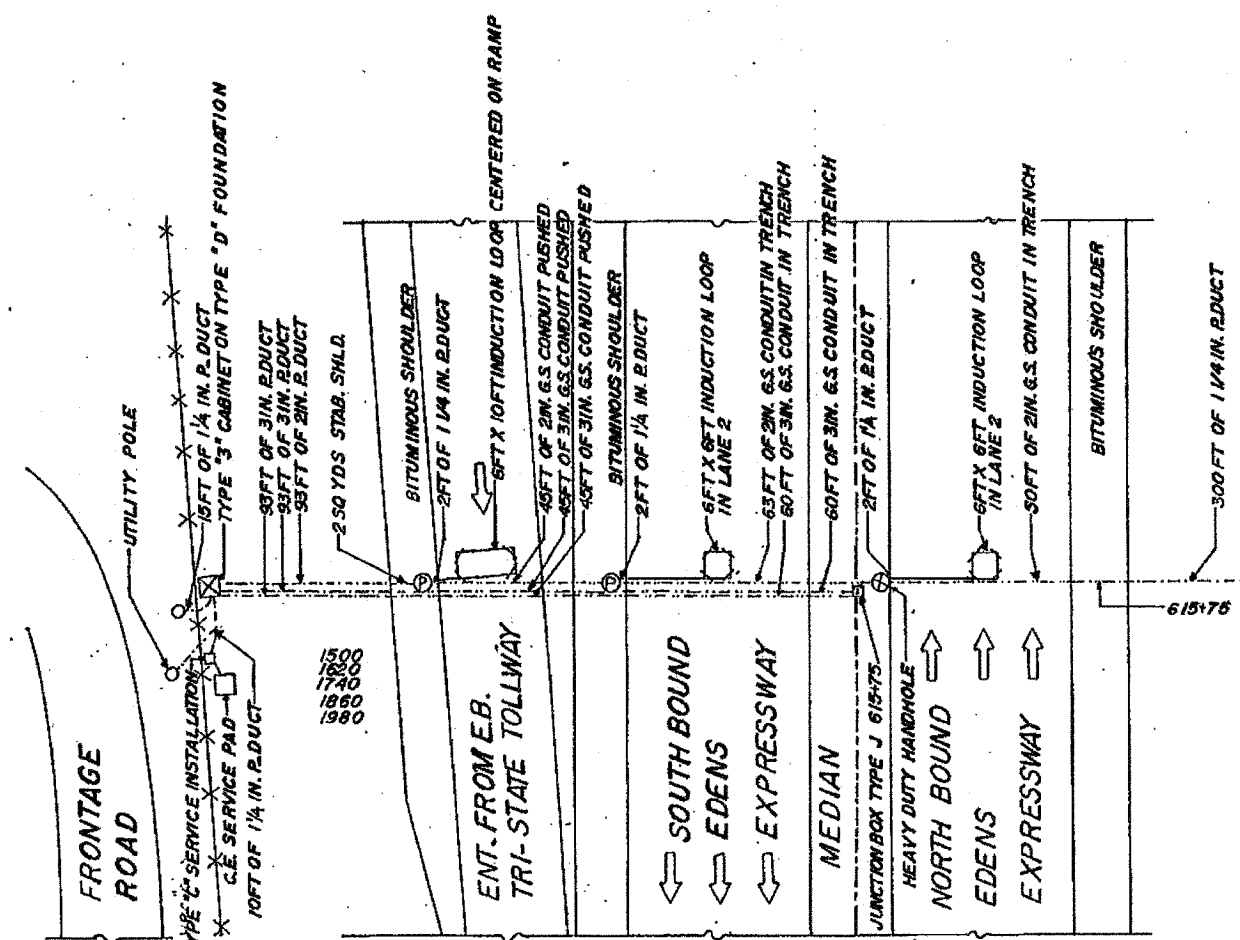
SCALE: VERT. _____
 HORIZ. _____
 DATE 11-28-83

DRAWN BY RD. _____
 CHECKED BY _____

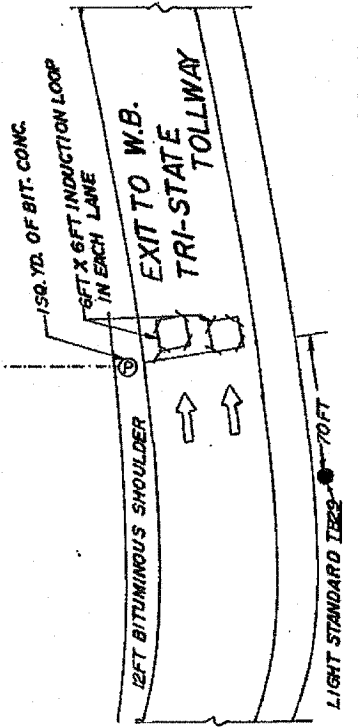
F.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	90	61
SFA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



WIRING DIAGRAM



PLAN



FOR INFORMATION ONLY

NOTES

1. FACE CABINET TOWARD R.O.W. FENCE APPROX ONE FT. INSIDE FENCE LINE.
2. CABINET DOOR SHALL HAVE A SWING CLEARANCE HEIGHT ABOVE FENCE OF 4 INCHES.

- LEGEND**
- INDUCTION LOOP
 - ⊠ CABINET
 - JUNCTION BOX
 - ⊙ PULL POINT
 - SERVICE INSTALLATION
 - ⊙ HANDHOLE
 - ⊙ HEAVY DUTY HANDHOLE
 - POLYETHYLENE CONDUIT
 - X- FENCE
 - X- GUARD RAIL
 - △ FLASHER
 - ◊ METERING SIGNAL
 - LIGHT
 - LIGHT STANDARD
 - - - PVC DUCT

REVISIONS	
NAME	DATE

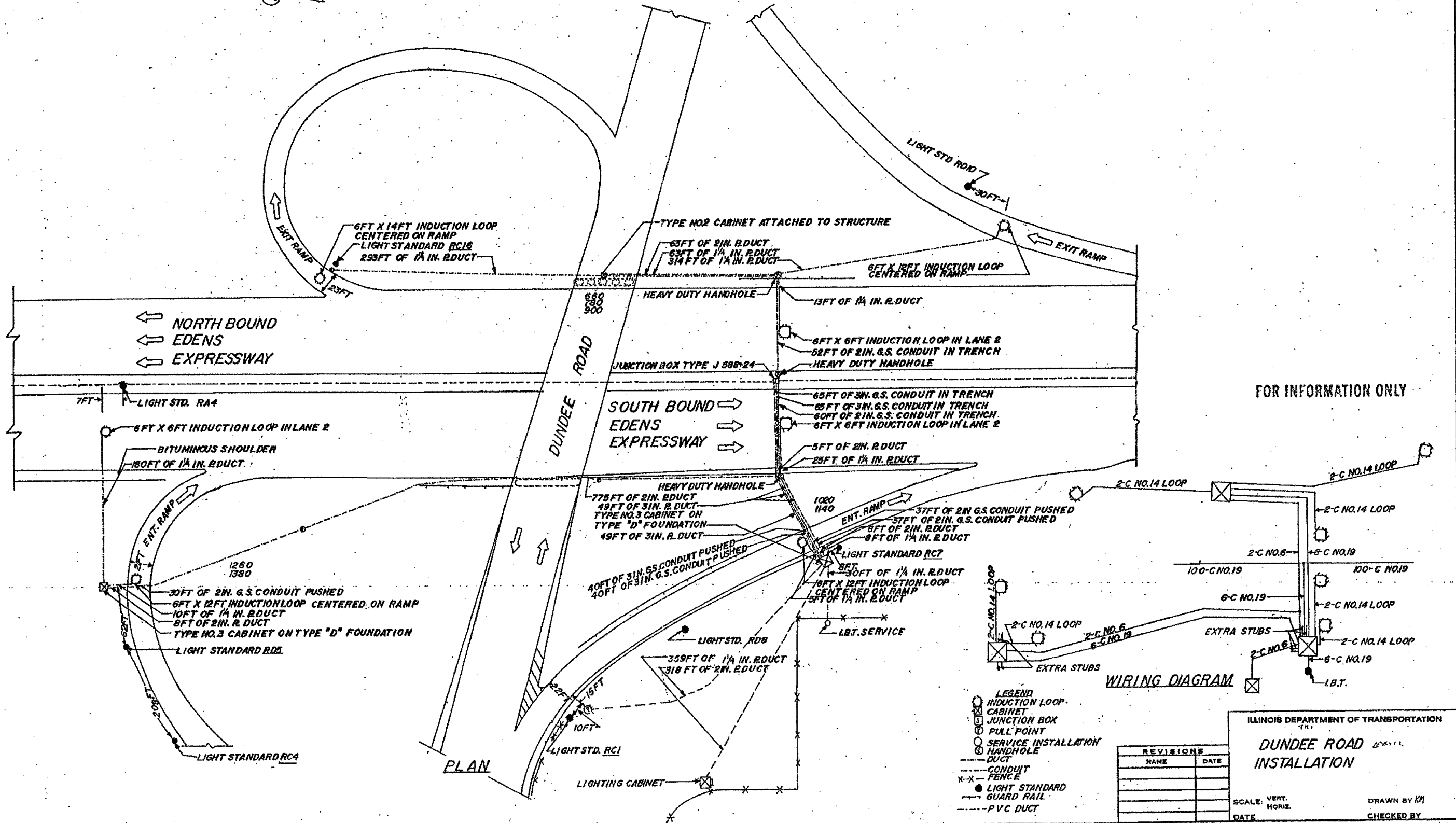
ILLINOIS DEPARTMENT OF TRANSPORTATION

TRI-STATE TOLLWAY INSTALLATION

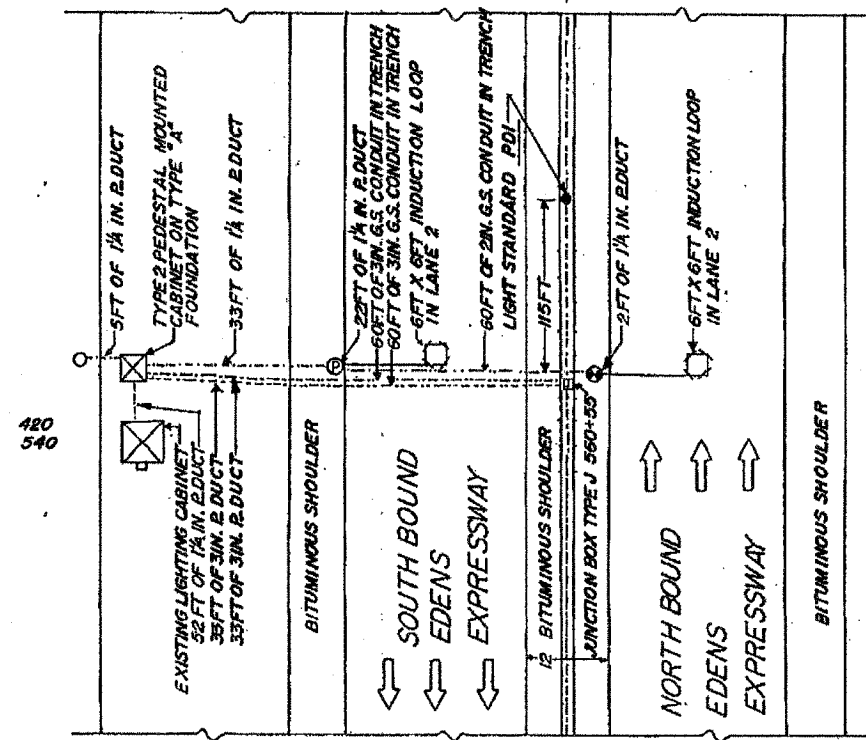
SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY KM
 CHECKED BY _____

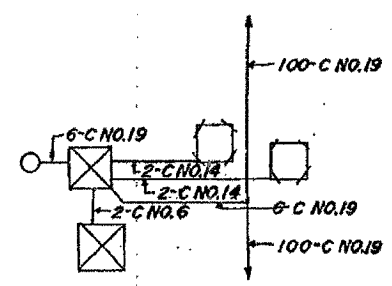
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Cook	95	62
STA. TO STA.		91	
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT	



P. & S. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	98	63
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



PLAN



WIRING DIAGRAM

- LEGEND**
- INDUCTION LOOP
 - ⊗ CABINET
 - ⊠ JUNCTION BOX TYPE J
 - PULL POINT
 - SERVICE INSTALLATION
 - HANDHOLE
 - HEAVY DUTY HANDHOLE
 - POLYETHYLENE DUCT
 - CONDUIT
 - X- FENCE
 - X- GUARD RAIL
 - △ FLASHER
 - METERING SIGNAL LIGHT
 - EXISTING LIGHT STANDARD
 - - - PVC DUCT

REVISIONS	
NAME	DATE

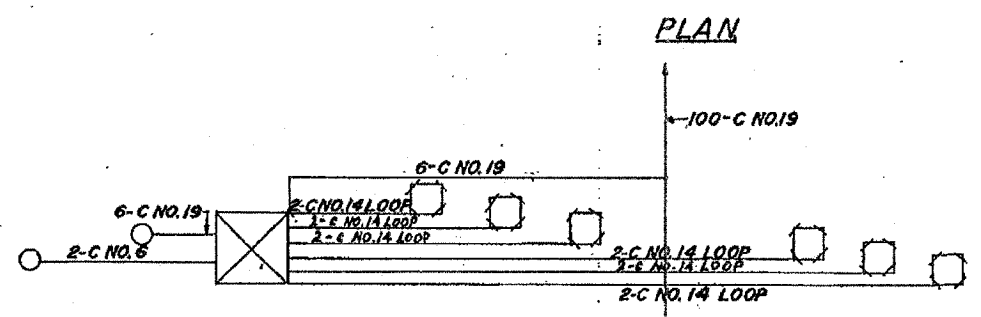
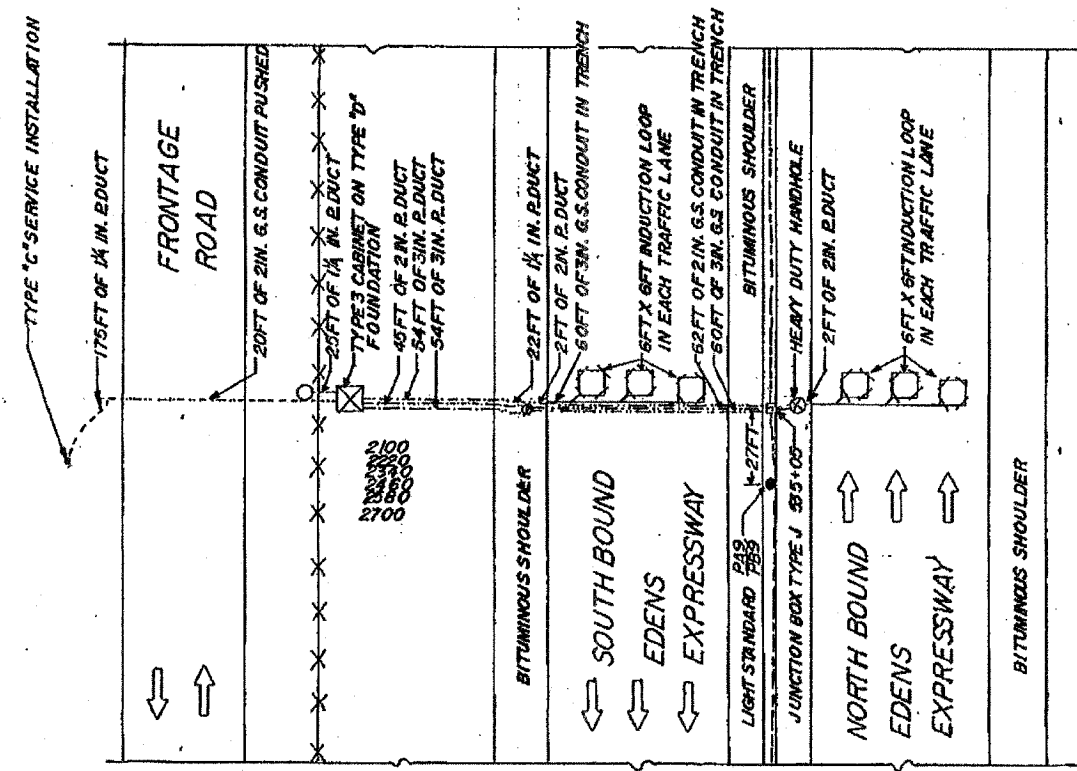
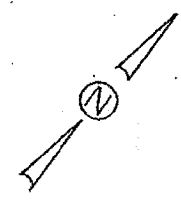
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
 1/2 MILE SOUTH OF
 DUNDEE ROAD
 INSTALLATION

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY KM
 CHECKED BY _____

P. A. SEC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Cook	98	64
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



- LEGEND
- INDUCTION LOOP
 - ⊠ CABINET
 - JUNCTION BOX TYPE J
 - ⊙ PULL POINT
 - ⊙ SERVICE INSTALLATION
 - ⊙ HANDHOLE
 - DUCT
 - CONDUIT
 - X- FENCE
 - LIGHT STANDARD
 - GUARD RAIL
 - ⊙ EXISTING UTILITY POLE
 - PVC DUCT

REVISIONS	
NAME	DATE

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION

1/2 MILE NORTH OF TOWER INSTALLATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

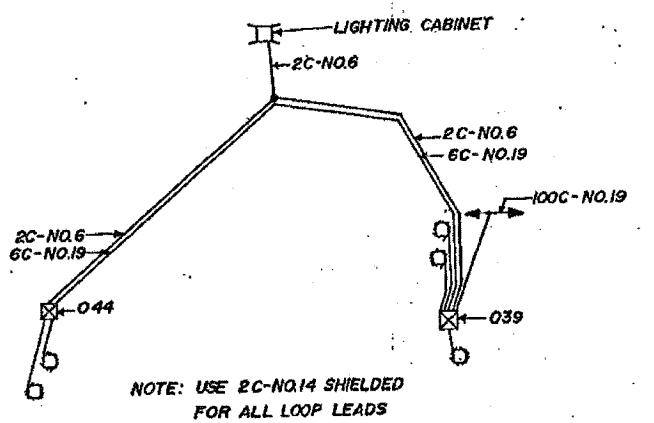
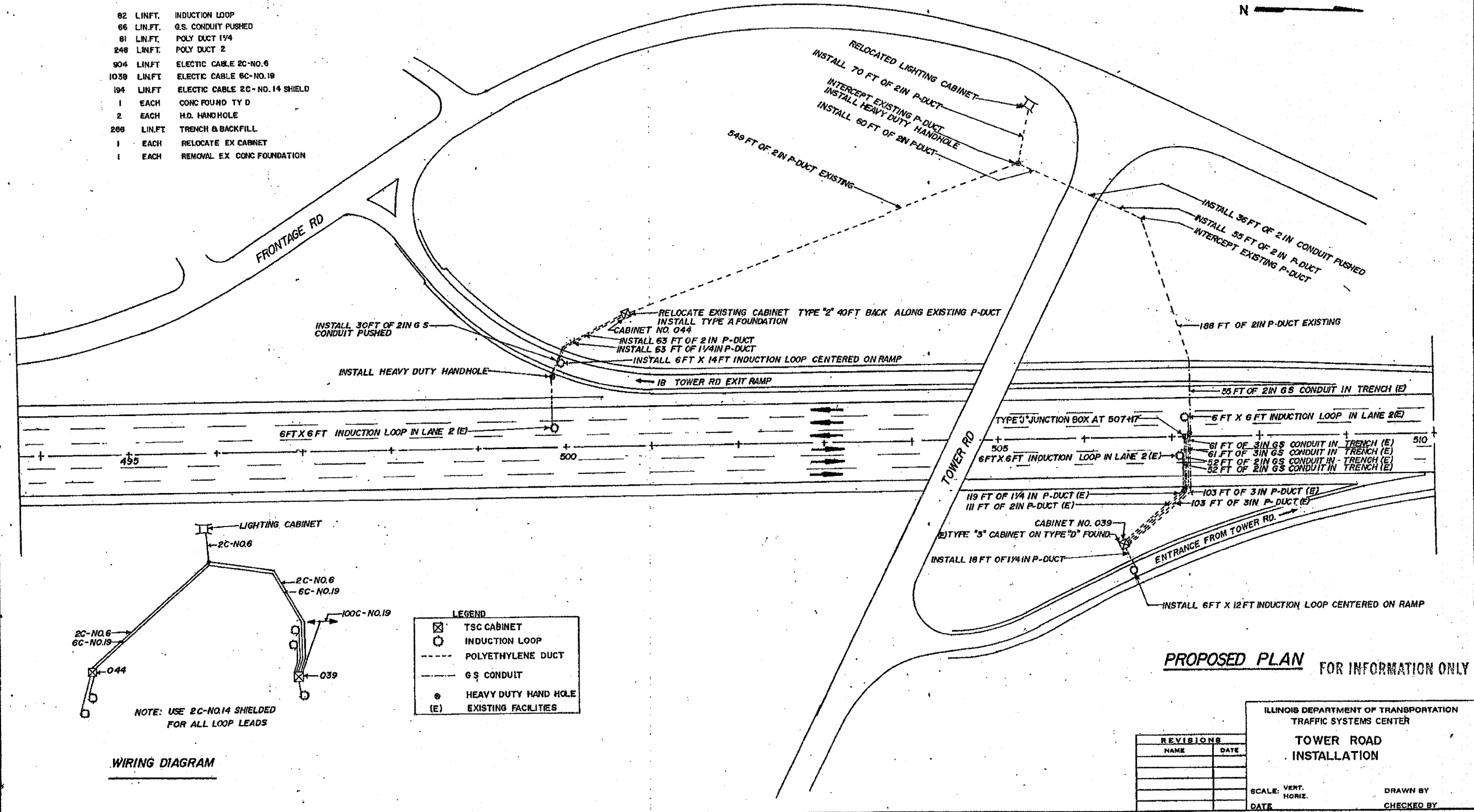
DRAWN BY KM

CHECKED BY _____

F.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	98	65
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

ESTIMATE OF QUANTITIES

82	LINEAL FEET	INDUCTION LOOP
66	LINEAL FEET	G.S. CONDUIT PUSHED
81	LINEAL FEET	POLY DUCT 1/4"
248	LINEAL FEET	POLY DUCT 2"
904	LINEAL FEET	ELECTRIC CABLE 2C-NO.6
1039	LINEAL FEET	ELECTRIC CABLE 6C-NO.19
194	LINEAL FEET	ELECTRIC CABLE 2C-NO.14 SHIELD
1	EACH	CONC FOUND TY D
2	EACH	H.D. HANDHOLE
286	LINEAL FEET	TRENCH & BACKFILL
1	EACH	RELOCATE EX CABINET
1	EACH	REMOVAL EX CONC FOUNDATION



LEGEND

☒	TSC CABINET
○	INDUCTION LOOP
---	POLYETHYLENE DUCT
---	G S CONDUIT
●	HEAVY DUTY HAND HOLE
(E)	EXISTING FACILITIES

PROPOSED PLAN FOR INFORMATION ONLY

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

**TOWER ROAD
INSTALLATION**

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	COOK	98	66
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

EXISTING C.E. POWER POLE

ABANDONED MILITARY INSTALLATION

POWER POLES INSTALLED BY C.E. (PROPOSED)

UP POLE FOR C.E.

25 FT OF 1 1/4 IN. R. DUCT

FRONTAGE ROAD

30 FT OF 2 IN. G.S. CONDUIT PUSHED

345 FT OF 1 1/4 IN. R. DUCT

1260 1380 R.O.W.

5 FT OF 1 1/4 IN. R. DUCT
11 FT OF 1 1/4 IN. R. DUCT
TYPE NO. 2 PEDESTAL MOUNTED CABINET ON TYPE "A" FOUNDATION
25 FT OF 1 1/4 IN. R. DUCT
25 FT OF 3 IN. R. DUCT
25 FT OF 3 IN. R. DUCT
25 FT OF 2 IN. R. DUCT

BITUMINOUS SHOULDER

SOUTH BOUND EDENS EXPRESSWAY

17 FT OF 1 1/4 IN. R. DUCT
6 FT X 6 FT INDUCTION LOOP IN LANE 2

58 FT OF 2 IN. G.S. CONDUIT IN TRENCH
58 FT OF 3 IN. G.S. CONDUIT IN TRENCH
58 FT OF 3 IN. G.S. CONDUIT IN TRENCH

JUNCTION BOX TYPE J

478-78

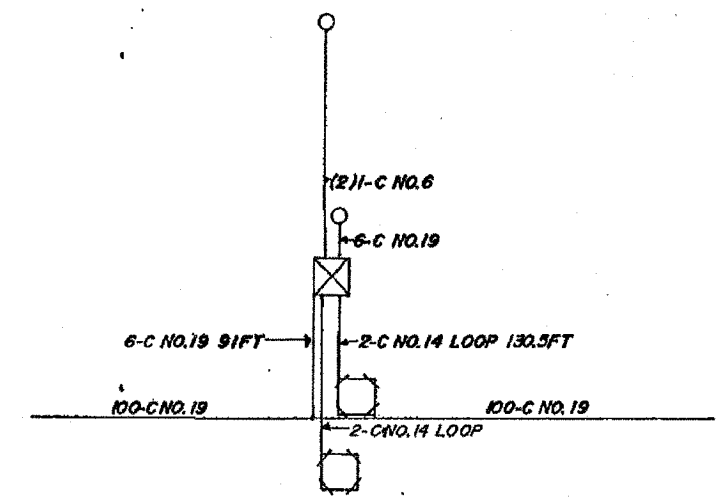
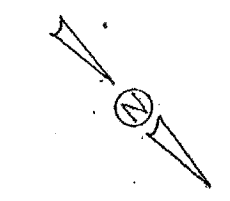
LIGHT STD (08/9)

HEAVY DUTY HANDHOLE

6 FT X 6 FT INDUCTION LOOP IN LANE 2

NORTH BOUND EDENS EXPRESSWAY

PLAN



WIRING DIAGRAM

- LEGEND
- INDUCTION LOOP
 - ⊠ CABINET
 - ⊞ JUNCTION BOX TYPE J
 - PULL POINT
 - SERVICE INSTALLATION
 - HANDHOLE
 - DUCT
 - CONDUIT
 - X-X FENCE
 - GUARD RAIL
 - PROPOSED C.E. RUN
 - PVC DUCT

REVISIONS	
NAME	DATE

FOR INFORMATION ONLY

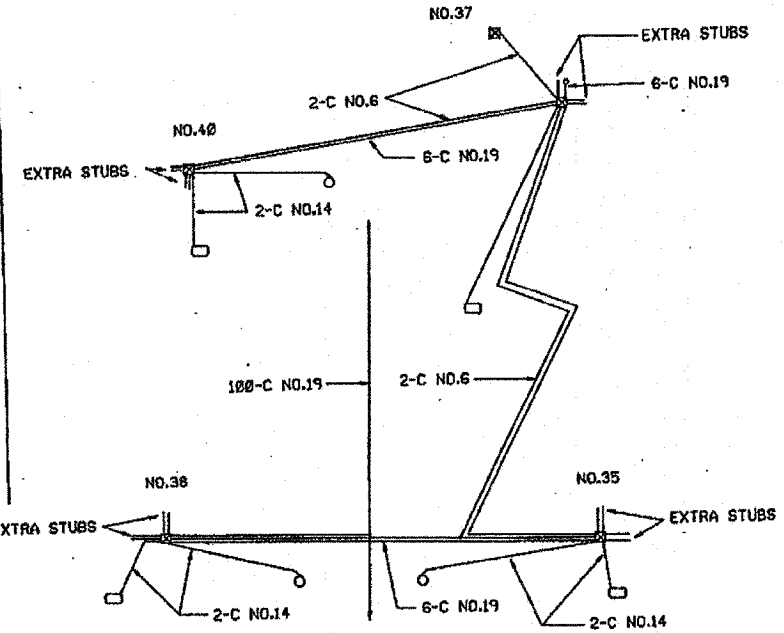
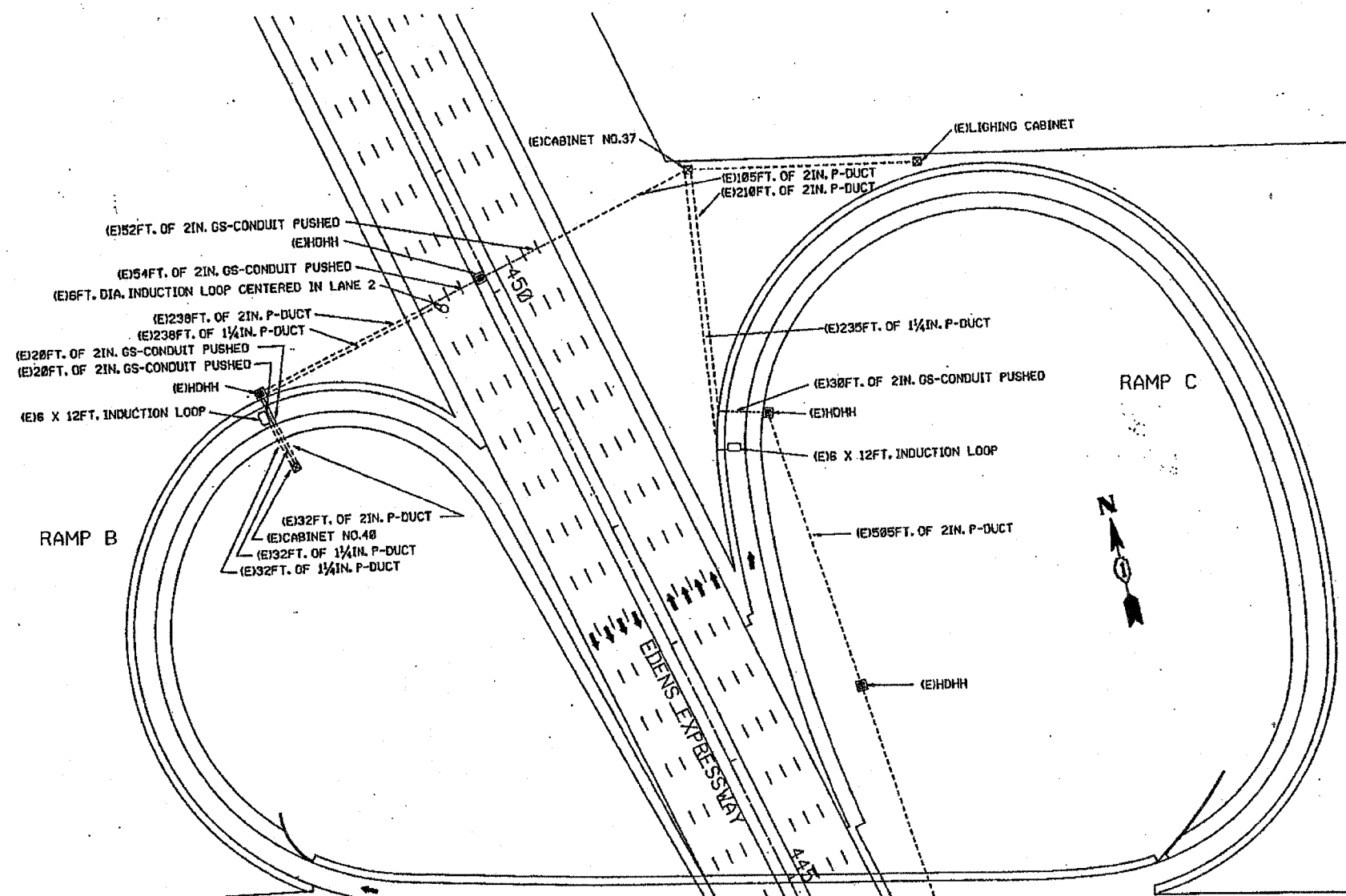
ILLINOIS DEPARTMENT OF TRANSPORTATION
1/2 MILE SOUTH OF TOWER INSTALLATION

SCALE: VERT. HORIZ. DATE

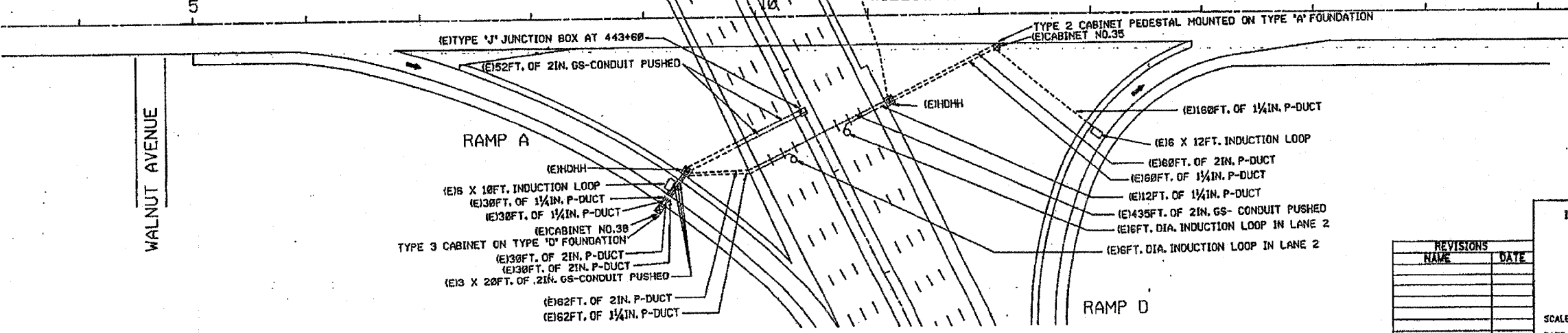
DRAWN BY KM CHECKED BY

P.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	90	67
STA.	TO STA.			
FILE NO.	DATE	BY	CHECKED BY	

SYMBOL	LEGEND
□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊠	TSC CABINET
△	TELEPHONE SERVICE
○	SERVICE INSTALLATION
□	JUNCTION BOX
■	HEAVY DUTY HAND HOLE
---	POLYETHYLENE DUCT
---	GALVANIZED STEEL CONDUIT
▶	FLASHER



WIRING DIAGRAM



LINDER STREET

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER
EDENS

WILLOW INSTALLATION

SCALE: VERT. 50:1
HORIZ. 50:1
DATE: 1-30-94

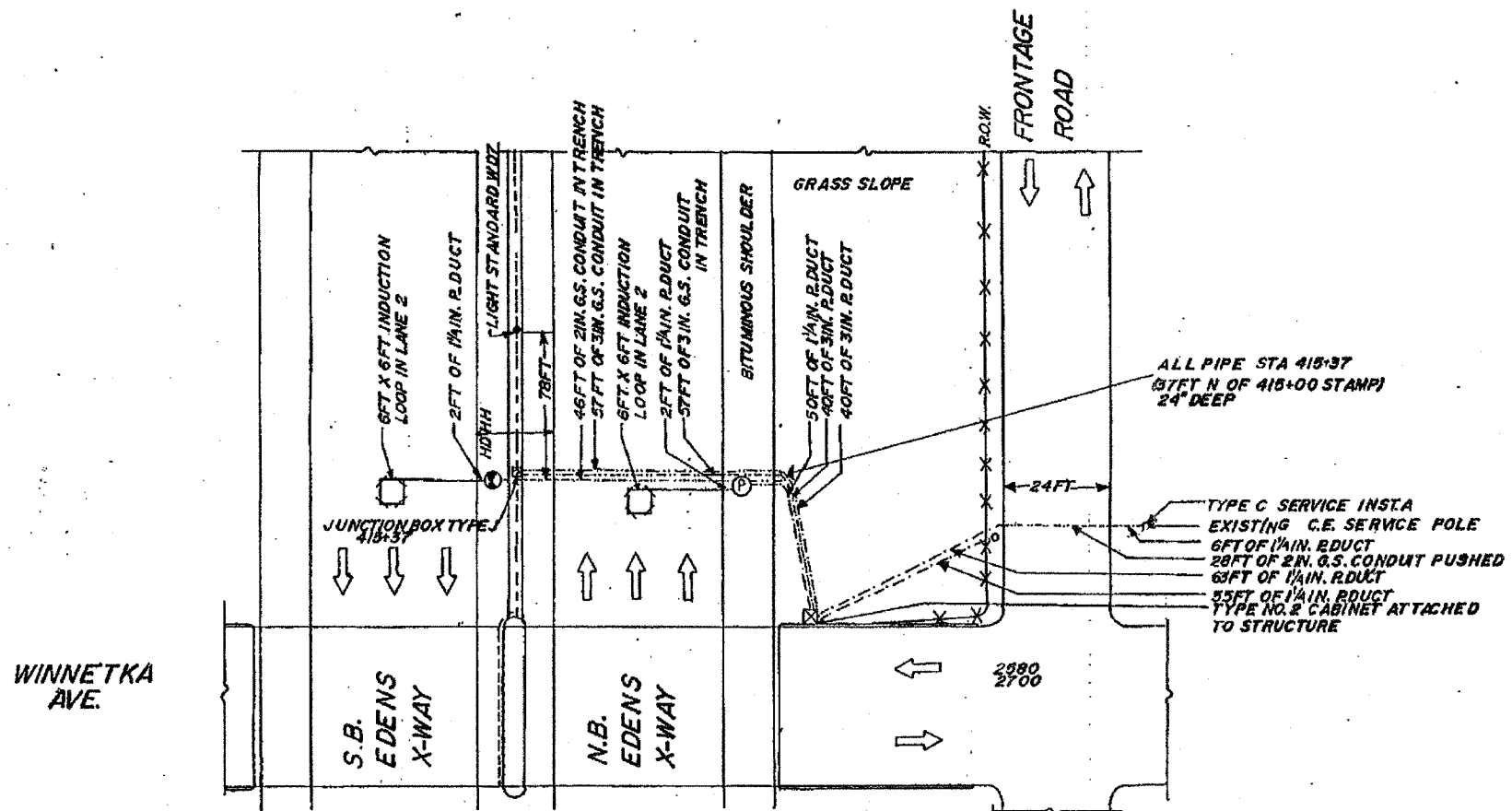
DRAWN BY: G.J.M.
CHECKED BY: D.S.

REVISIONS	
NAME	DATE

RF-EDENS.W.DWG
RF-EDENS.W.DWG

VI-WILLOW

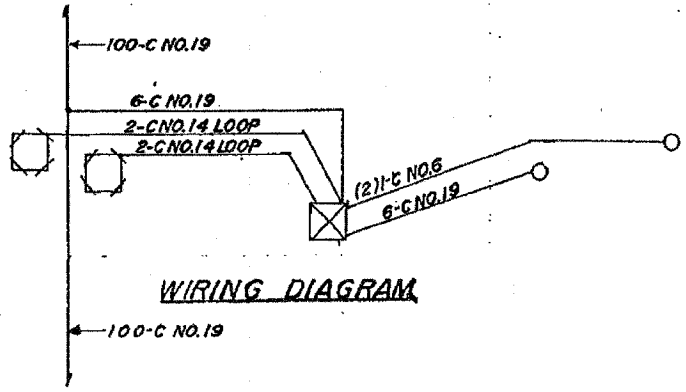
F. A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	98	68
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



ALL PIPE STA 418+37
(37FT N OF 418+00 STAMP)
24" DEEP

TYPE C SERVICE INSTA
EXISTING C.E. SERVICE POLE
6FT OF 1/2 IN. R. DUCT
28FT OF 2 IN. G.S. CONDUIT PUSHED
63FT OF 1/2 IN. R. DUCT
35FT OF 1/2 IN. R. DUCT
TYPE NO. 2 CABINET ATTACHED
TO STRUCTURE

PLAN



WIRING DIAGRAM

- LEGEND**
- INDUCTION LOOP
 - CABINET
 - ⊠ JUNCTION BOX TYPE J
 - PULL POINT
 - SERVICE INSTALLATION
 - HANDHOLE-HEAVY DUTY
 - DUCT
 - CONDUIT
 - X-X FENCE
 - GUARD RAIL
 - PVC DUCT

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

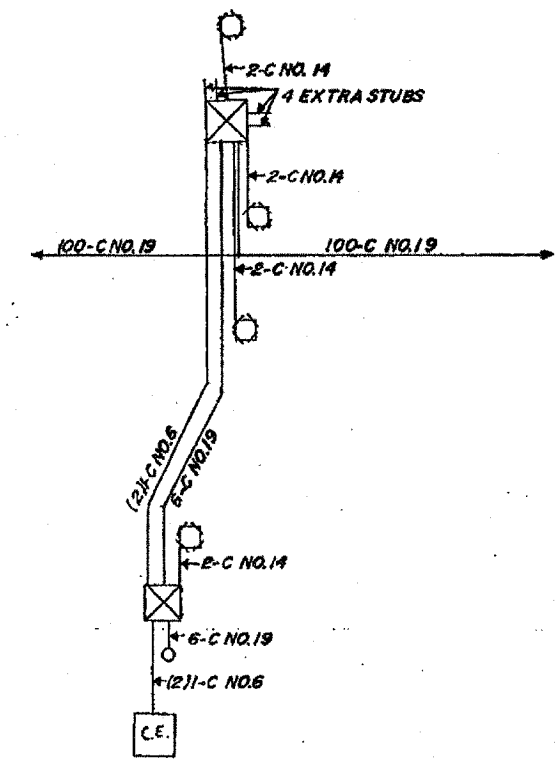
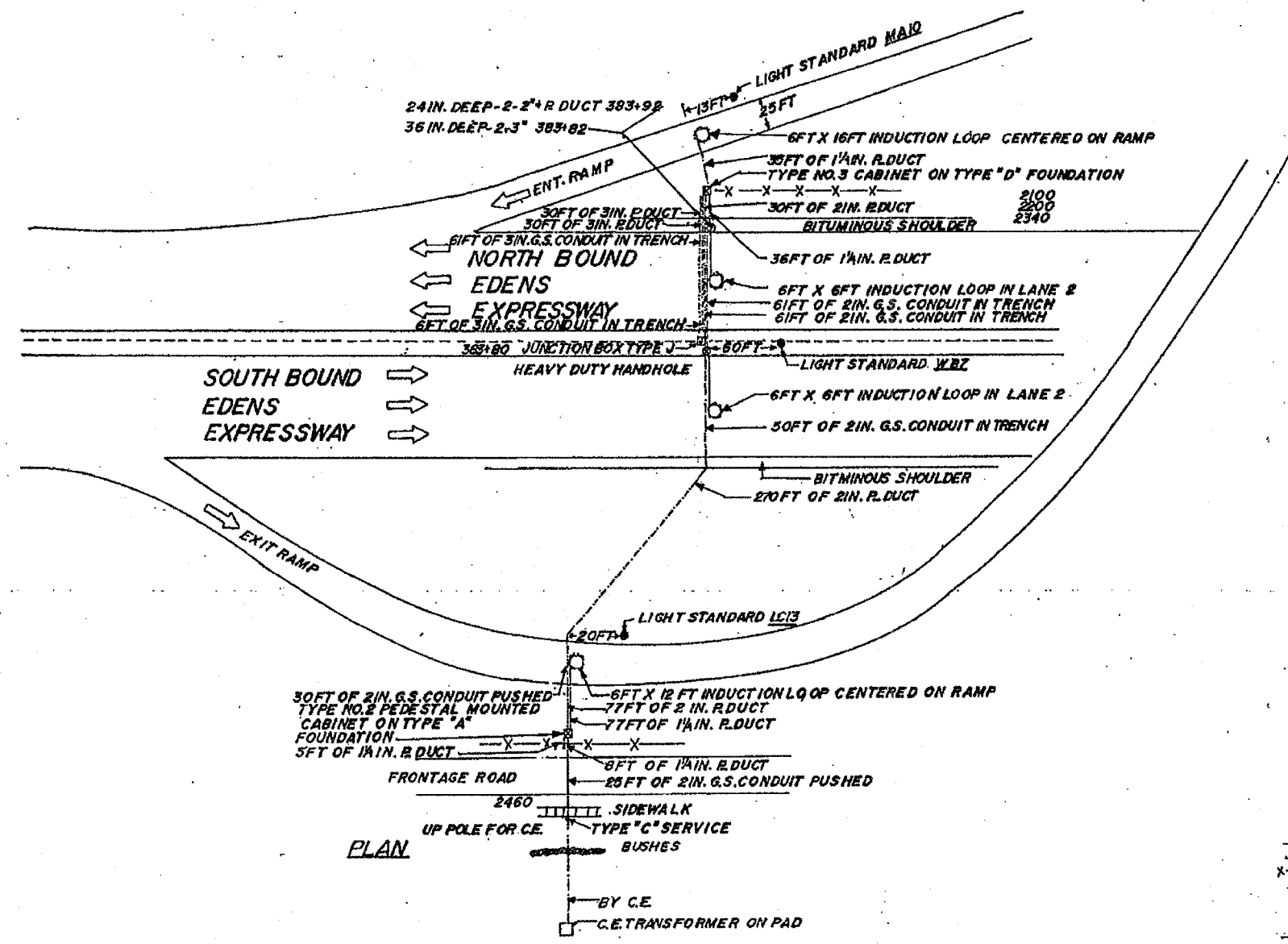
ILLINOIS DEPARTMENT OF TRANSPORTATION

**WINNETKA AVENUE
INSTALLATION**

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY KH
CHECKED BY _____

E. A. SEC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	981	69
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



- LEGEND**
- INDUCTION LOOP
 - ⊗ CABINET
 - ⊕ JUNCTION BOX TYPE J
 - PULL POINT
 - SERVICE INSTALLATION
 - ⊗ HANDHOLE
 - DUCT
 - CONDUIT
 - X-X- FENCE
 - |-| GUARDRAIL
 - LIGHT STANDARD
 - C.E. TRANSFORMER ON PAD
 - PVC DUCT

REVISIONS	
NAME	DATE

FOR INFORMATION ONLY

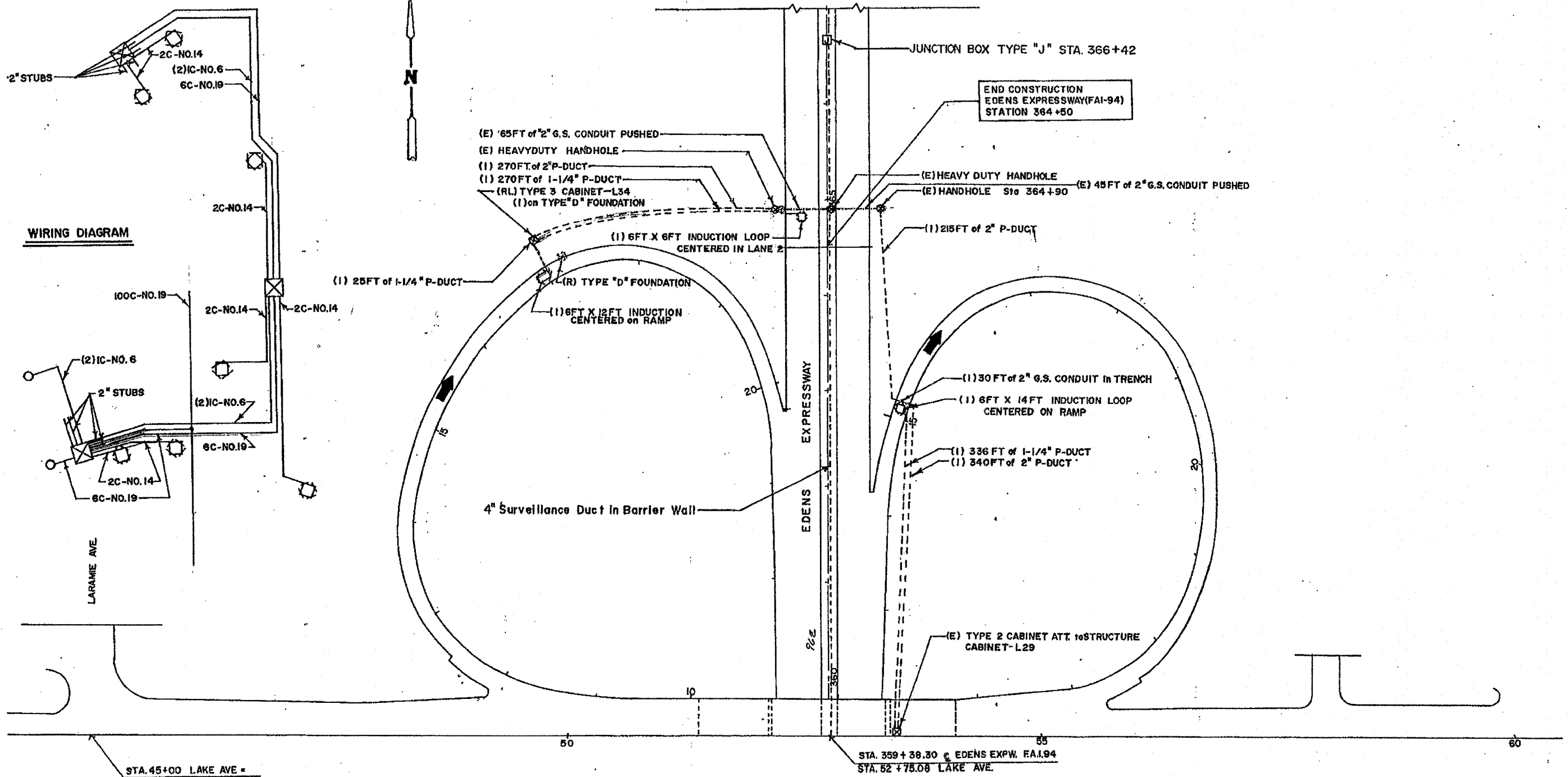
ILLINOIS DEPARTMENT OF TRANSPORTATION

**SKOKIE BLVD
INSTALLATION**

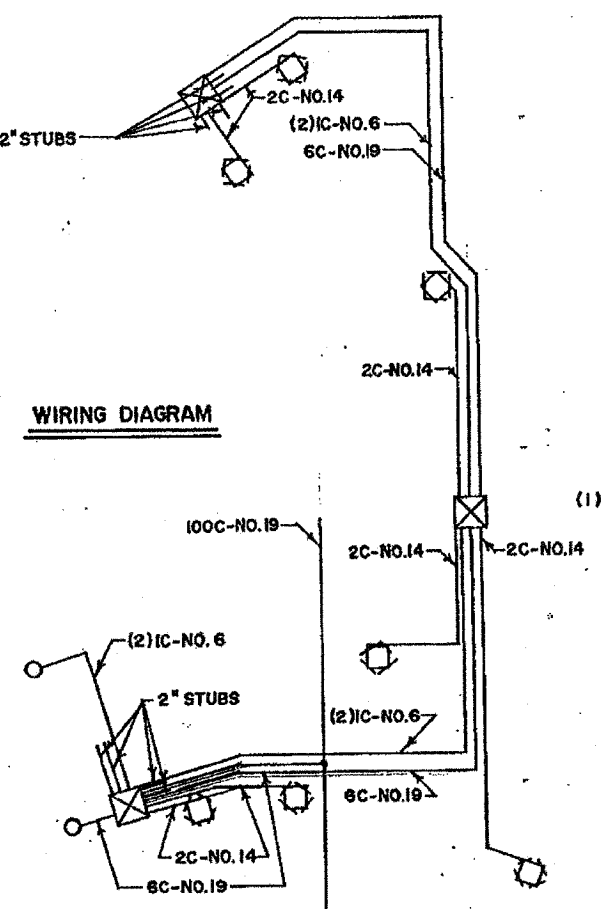
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 HORIZ. _____

DATE _____

DRAWN BY KM
 CHECKED BY _____



WIRING DIAGRAM



— PROPOSED INSTALLATION —

FOR INFORMATION ONLY

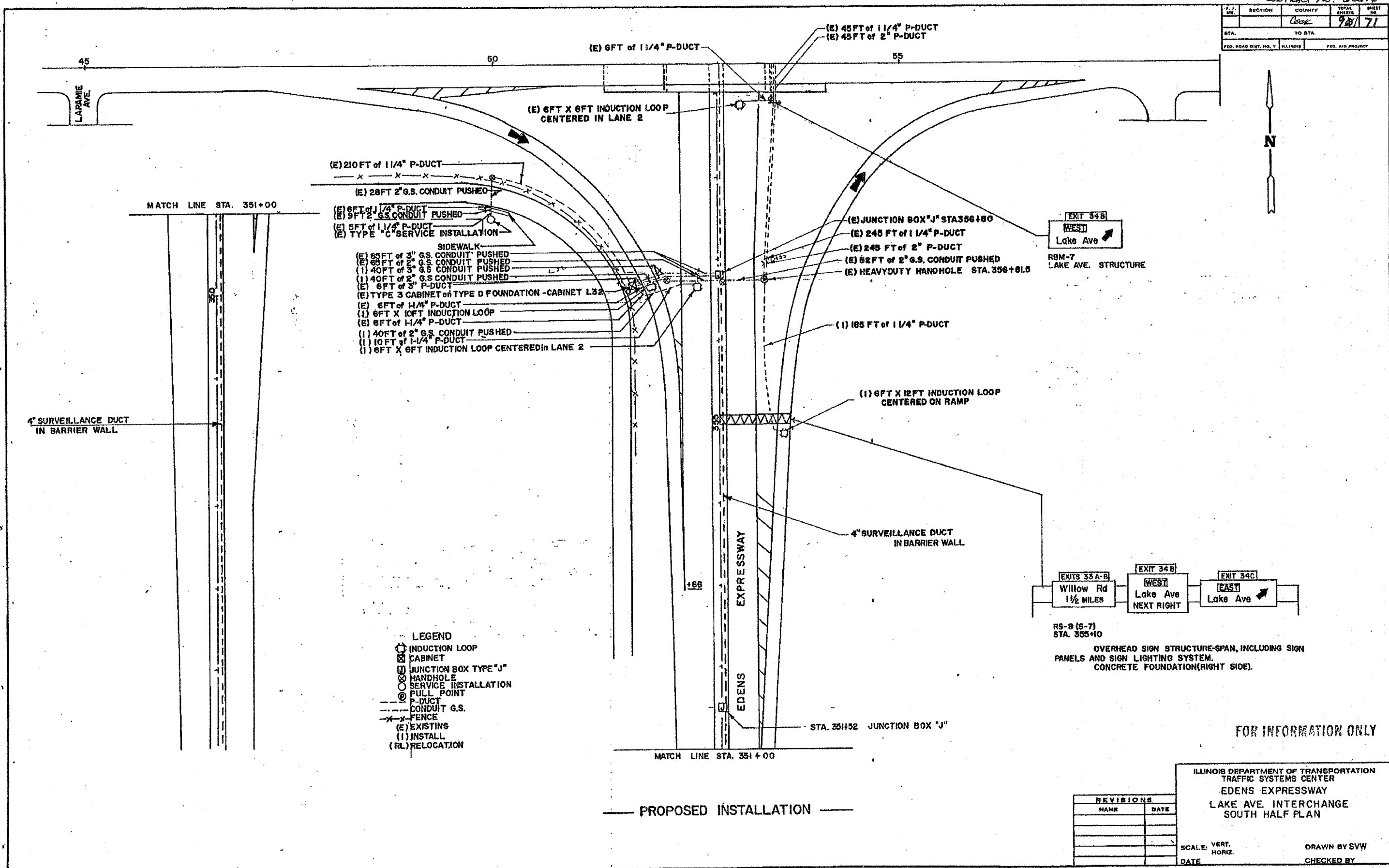
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER
 EDENS EXPRESSWAY
 LAKE AVE. INTERCHANGE
 NORTH HALF PLAN

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

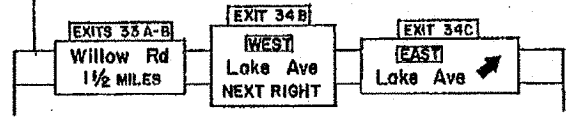
DRAWN BY SVW
 CHECKED BY _____

F. J. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	98	71
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



- (E) 210 FT of 1 1/4" P-DUCT
- (E) 28 FT 2" G.S. CONDUIT PUSHED
- (E) 6 FT of 1 1/4" P-DUCT
- (E) 9 FT 2" G.S. CONDUIT PUSHED
- (E) 5 FT of 1 1/4" P-DUCT
- (E) TYPE "C" SERVICE INSTALLATION
- SIDEWALK
- (E) 65 FT of 3" G.S. CONDUIT PUSHED
- (E) 65 FT of 2" G.S. CONDUIT PUSHED
- (1) 40 FT of 3" G.S. CONDUIT PUSHED
- (1) 40 FT of 2" G.S. CONDUIT PUSHED
- (E) 6 FT of 3" P-DUCT
- (E) TYPE 3 CABINET on TYPE D FOUNDATION - CABINET L32
- (E) 6 FT of 1 1/4" P-DUCT
- (1) 6 FT X 10 FT INDUCTION LOOP
- (E) 8 FT of 1 1/4" P-DUCT
- (1) 40 FT of 2" G.S. CONDUIT PUSHED
- (1) 10 FT of 1 1/4" P-DUCT
- (1) 6 FT X 6 FT INDUCTION LOOP CENTERED IN LANE 2

- LEGEND
- ⊕ INDUCTION LOOP
 - ⊠ CABINET
 - ⊞ JUNCTION BOX TYPE "J"
 - ⊙ HANDHOLE
 - ⊙ SERVICE INSTALLATION
 - ⊙ PULL POINT
 - P-DUCT
 - CONDUIT G.S.
 - x-x- FENCE
 - (E) EXISTING
 - (1) INSTALL
 - (RL) RELOCATION



OVERHEAD SIGN STRUCTURE-SPAN, INCLUDING SIGN PANELS AND SIGN LIGHTING SYSTEM. CONCRETE FOUNDATION (RIGHT SIDE).

FOR INFORMATION ONLY

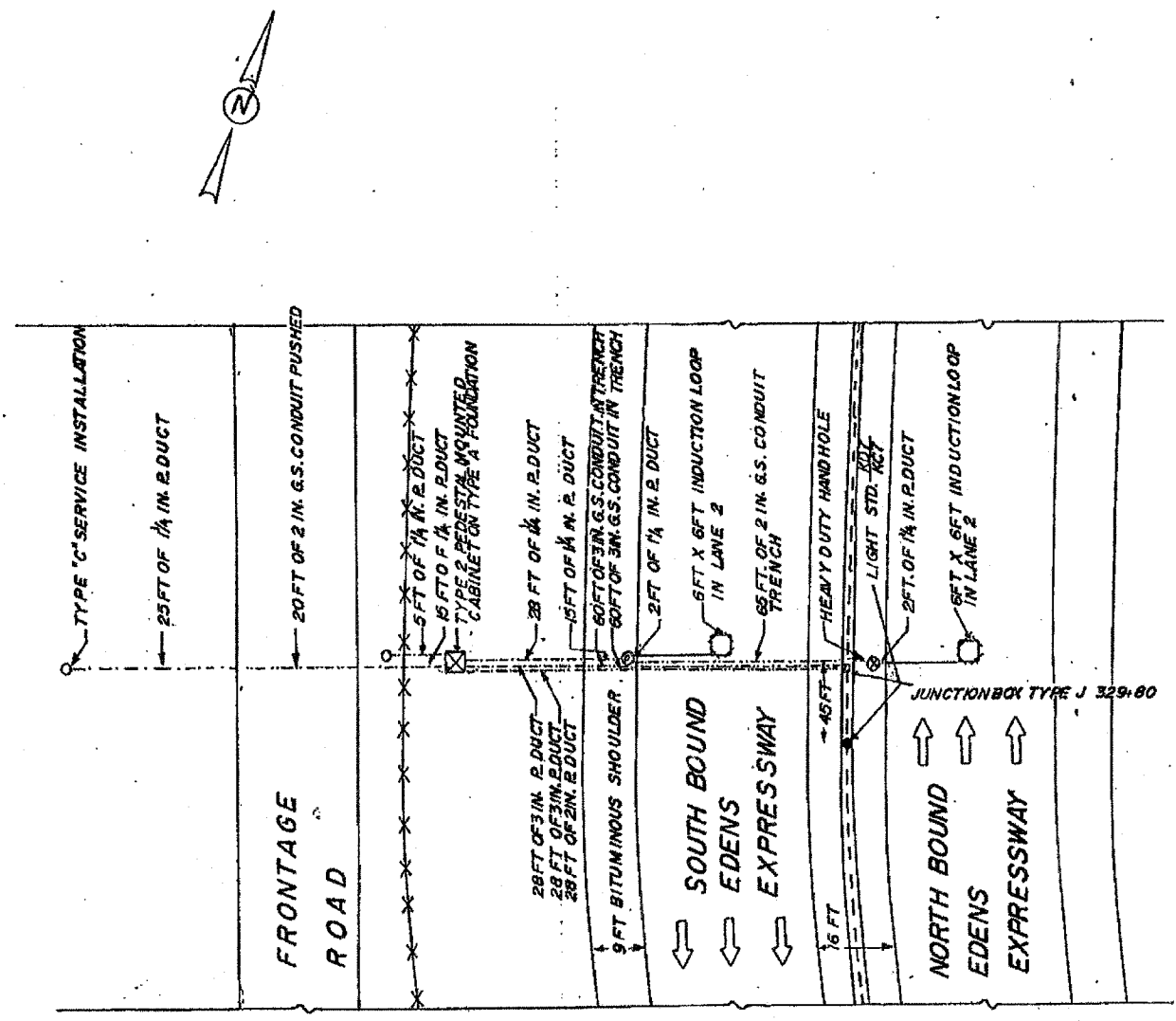
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER
EDENS EXPRESSWAY
LAKE AVE. INTERCHANGE
SOUTH HALF PLAN

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY SVW
CHECKED BY _____

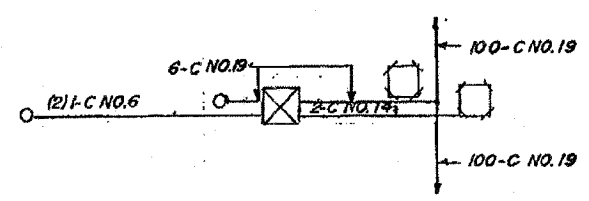
PROPOSED INSTALLATION

F. & D.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	72
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



K20
1140

PLAN



WIRING DIAGRAM

- LEGEND**
- INDUCTION LOOP
 - ⊗ CABINET
 - ⊠ JUNCTION BOX TYPE J
 - PULL POINT
 - SERVICE INSTALLATION
 - HANDHOLE
 - ⊕ HEAVY DUTY HANDHOLE
 - POLYETHYLENE DUCT
 - CONDUIT
 - X- FENCE
 - GARD RAIL
 - △ FLASHER
 - METERING SIGNAL LIGHT
 - EXISTING LIGHT STANDARD
 - PVC DUCT

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GLENVIEW ROAD
INSTALLATION**

SCALE: VERT. _____
HORIZ. _____

DATE _____

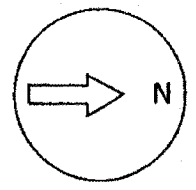
DRAWN BY K^M

CHECKED BY _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	COOK	9	73
STA. TO STA.		FED. AID PROJECT	

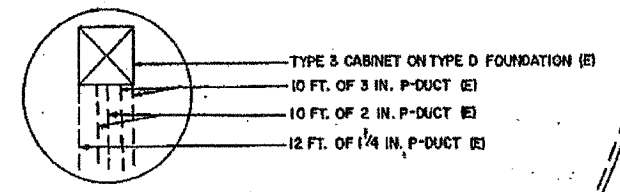
ESTIMATE OF QUANTITIES

82	LN. FT.	INDUCTION LOOP
104	LN. FT.	POLY DUCT 1 1/4
86	LN. FT.	POLY DUCT 2
106	LN. FT.	ELOBL. OR. 60
758	LN. FT.	ELOBL. CH. 20
437	LN. FT.	ELOBL. 66 20
647	LN. FT.	TRENCH & BACKFILL

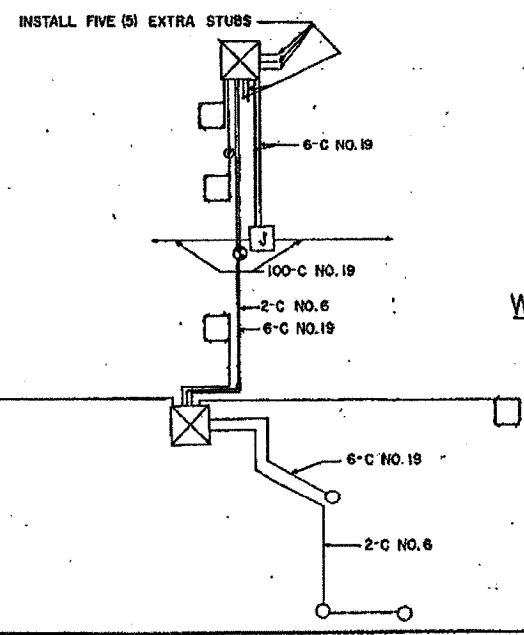
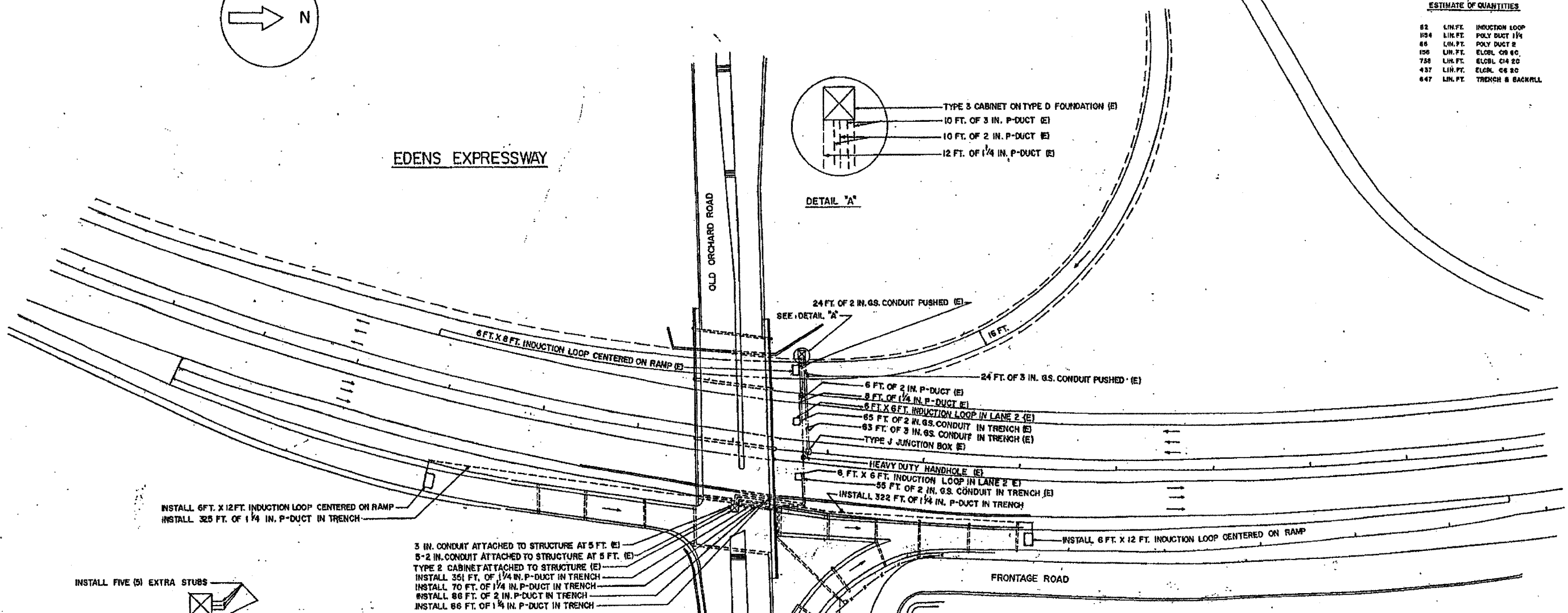


EDENS EXPRESSWAY

OLD ORCHARD ROAD



DETAIL "A"



WIRING DIAGRAM

NOTE:
ALL LOOP LEAD-IN WIRE IS 2-C NO. 6

- 3 IN. CONDUIT ATTACHED TO STRUCTURE AT 5 FT. (E)
- 5-2 IN. CONDUIT ATTACHED TO STRUCTURE AT 5 FT. (E)
- TYPE 2 CABINET ATTACHED TO STRUCTURE (E)
- INSTALL 351 FT. OF 1 1/4 IN. P-DUCT IN TRENCH
- INSTALL 70 FT. OF 1 1/4 IN. P-DUCT IN TRENCH
- INSTALL 88 FT. OF 2 IN. P-DUCT IN TRENCH
- INSTALL 86 FT. OF 1 1/4 IN. P-DUCT IN TRENCH

LEGEND

- INDUCTION LOOP
- ⊠ CABINET
- ⊞ JUNCTION BOX
- ⊙ PULL POINT
- SERVICE INSTALLATION
- ⊗ HANDHOLE
- ⊕ HEAVY DUTY HANDHOLE
- POLYETHYLENE DUCT
- CONDUIT
- - - FENCE
- GUARD RAIL
- ⚡ FLASHER
- ⊕ METERING SIGNAL LIGHT
- EXISTING LIGHT STANDARD
- ⊞ EXISTING FACILITIES

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

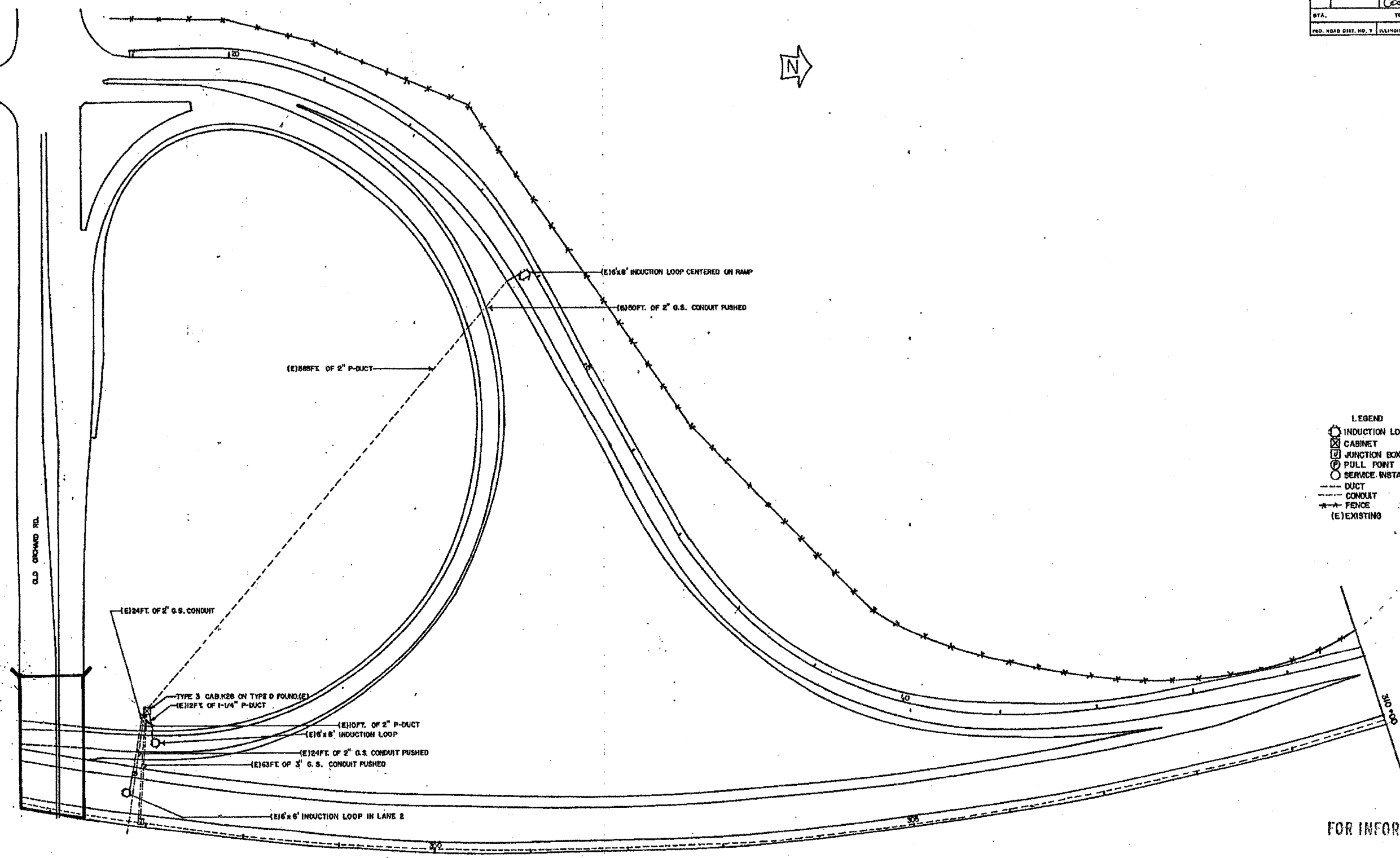
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER
 OLD ORCHARD ROAD

SCALE: VERT. 1"=20'
 HORIZ. 1"=40'
 DATE 8-21-80

DRAWN BY C. PLATH
 CHECKED BY R. W. JENKINS

CONTRACT No. 62636

E. & S. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	174
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



- LEGEND
- INDUCTION LOOP
 - ⊠ CABINET
 - ⊡ JUNCTION BOX TYPE J
 - ⊙ PULL POINT
 - SERVICE INSTALLATION
 - DUCT
 - - - CONDUIT
 - FENCE
 - (E) EXISTING

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

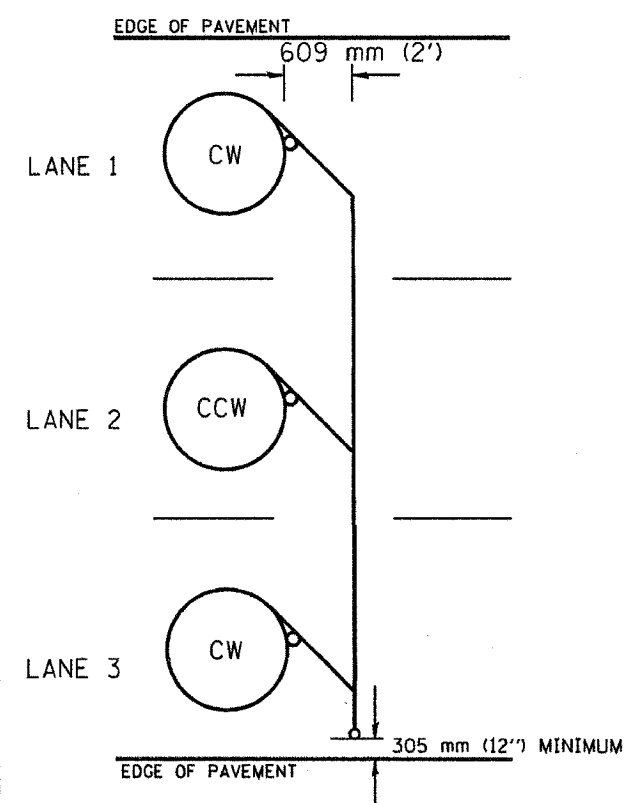
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER
EDENS EXPWY
OLD ORCHARD

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

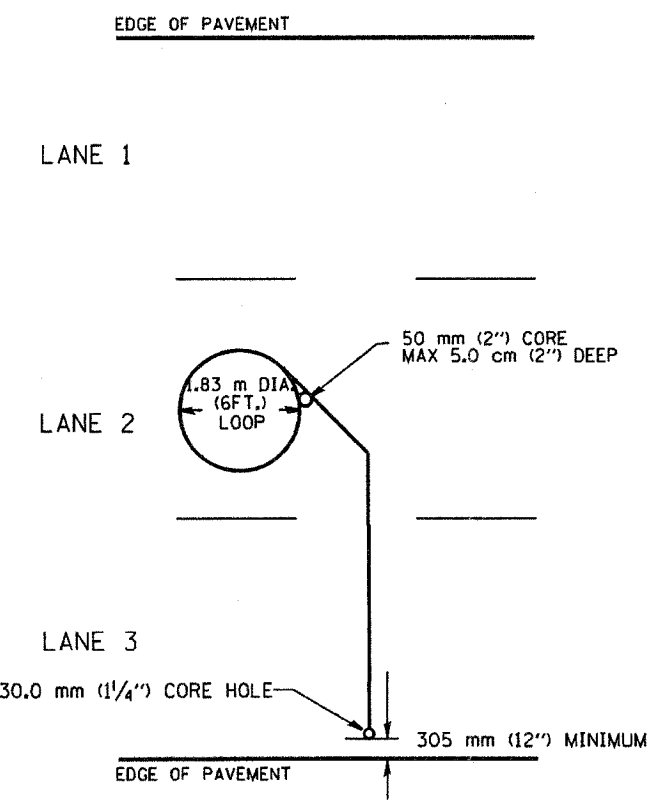
DRAWN BY _____
 CHECKED BY _____

Contract No. 62676

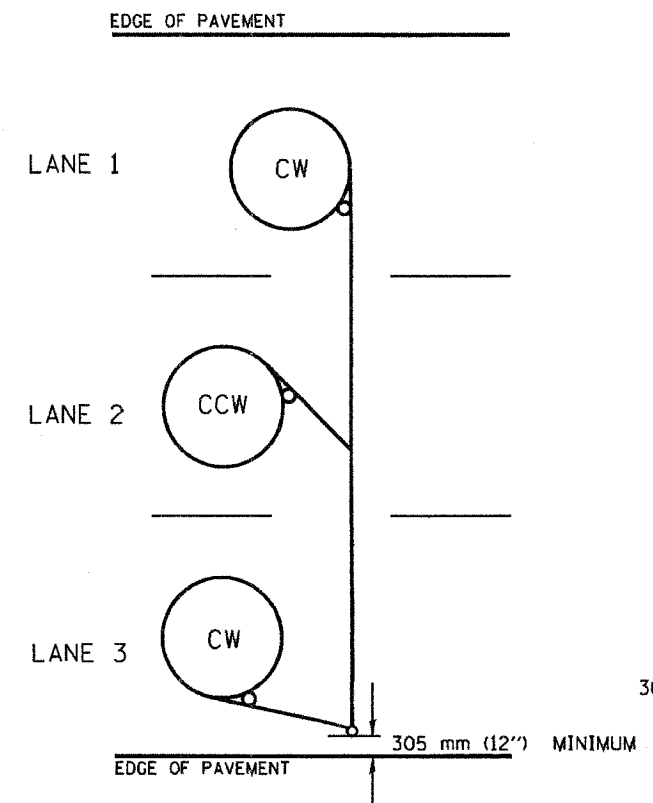
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			96
STA.	TO STA.		75
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



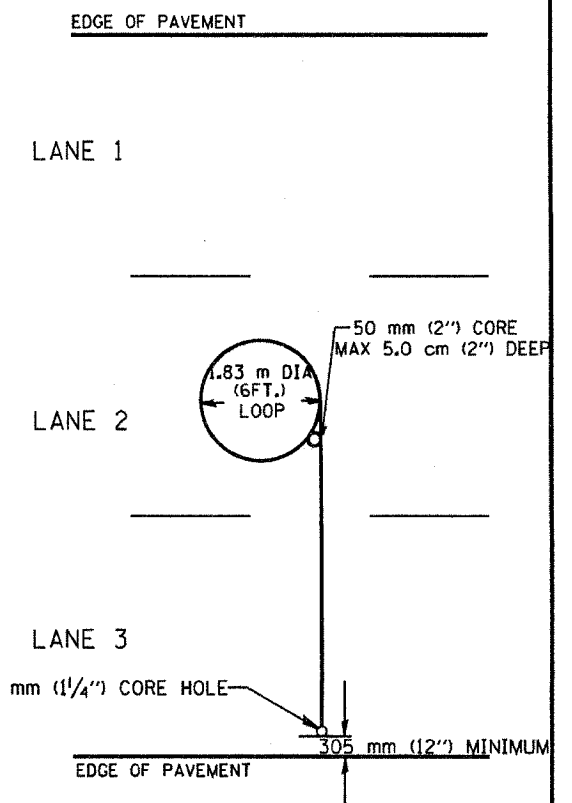
TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



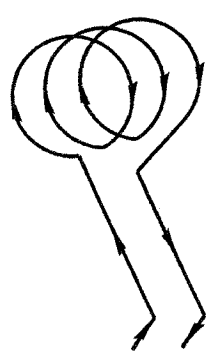
TYPICAL 1.83 m (6') DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



TYPICAL 1.83 m (6') DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 1.83 m (6') DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



WIRING DETAILS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

REVISIONS	
NAME	DATE
R.L.	6/94
T.C.	9/96

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER
**EXISTING ROUND LOOP
INSTALLATION**

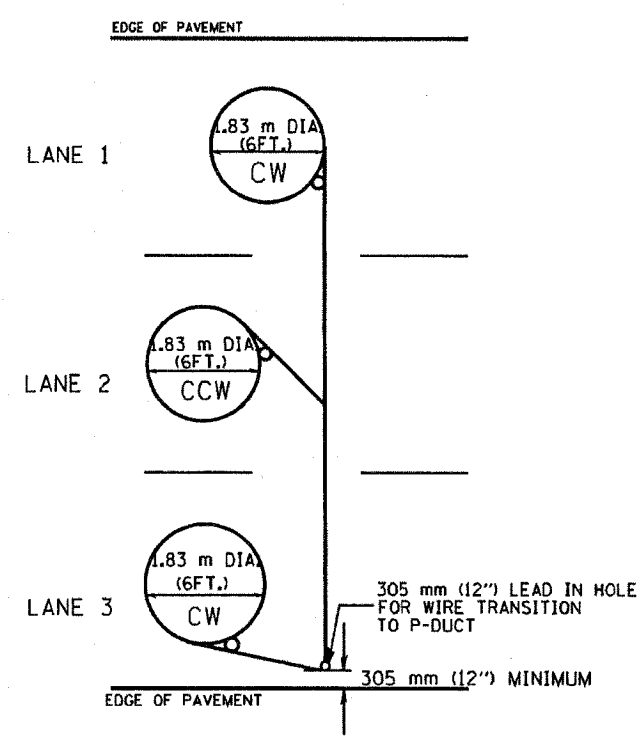
SCALE: VERT. NONE
DATE 6-22-94

DRAWN BY G.W.
CHECKED BY R.L.

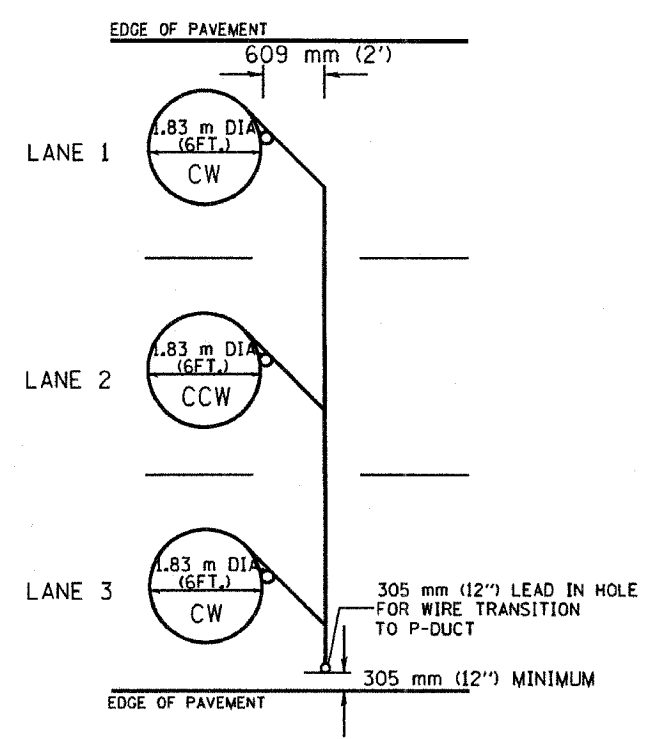
RD: TYPMET.DGN
RF:

V144181

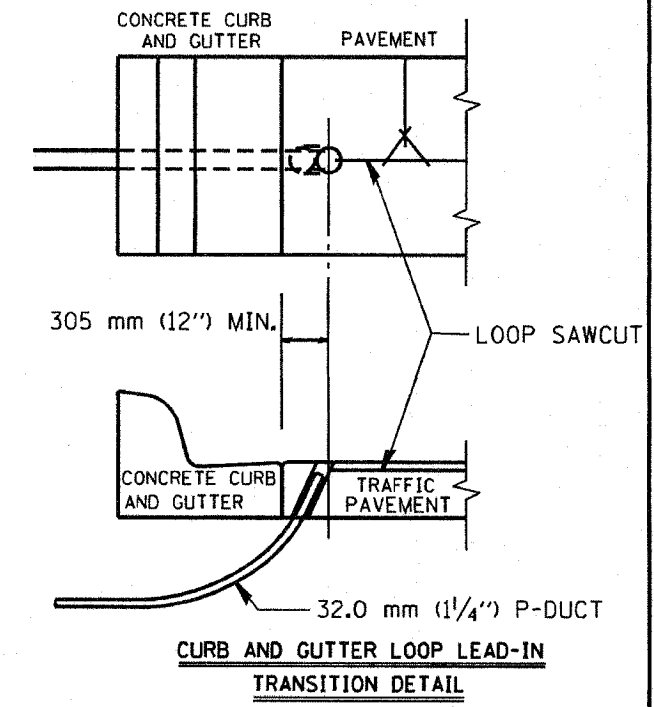
F.A. RYE	SECTION	COUNTY	TOTAL SHEETS NO.
			90/76
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



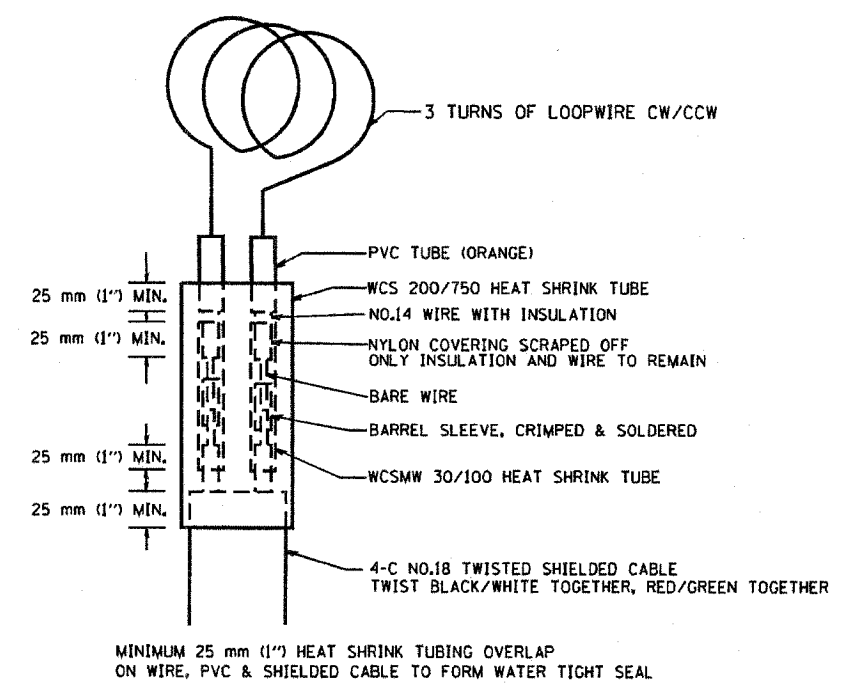
TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 1.83 m (6') DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL



LOOP SPLICING REQUIREMENTS

- NOTES**
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
 2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
 3. LOOPS SHALL NOT BE SPLICED IN SERIES.
 4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

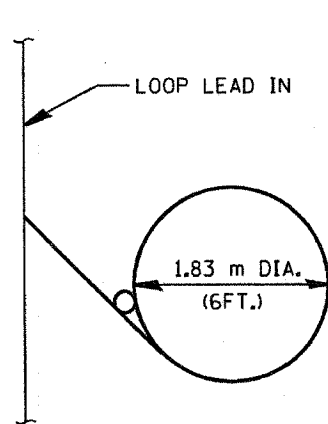
REVISIONS	
NAME	DATE
R.L.	6/94
T.C.	10/96

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER
EXISTING ROUND INDUCTION LOOP TYPICALS
 SCALE: VERT. NONE
 DATE 6-22-94
 DRAWN BY G.M.
 CHECKED BY R.L.

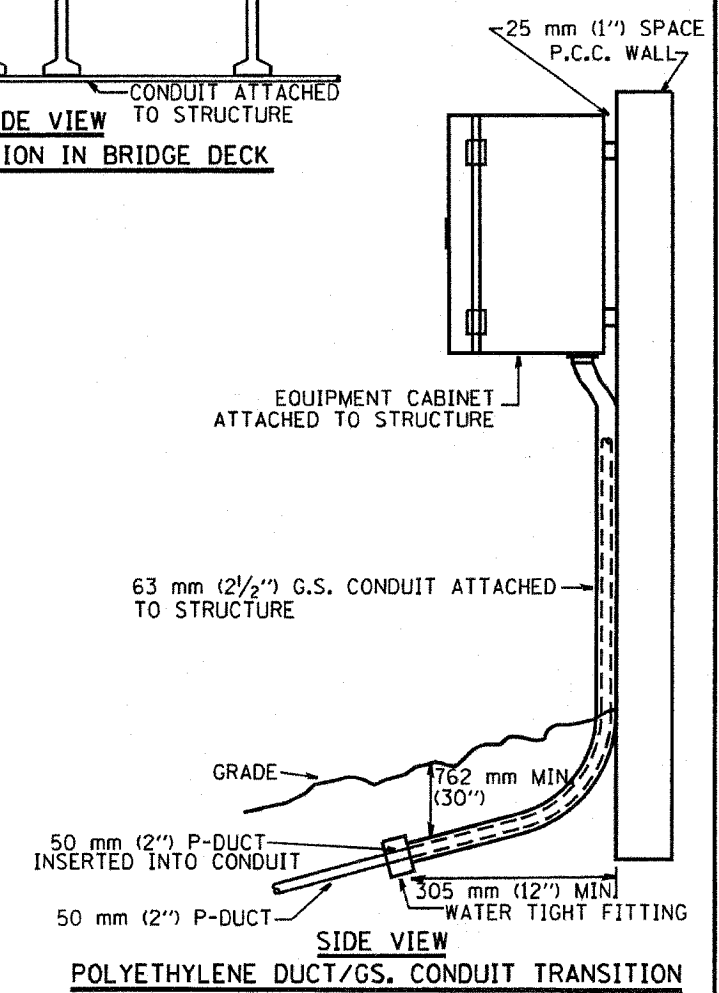
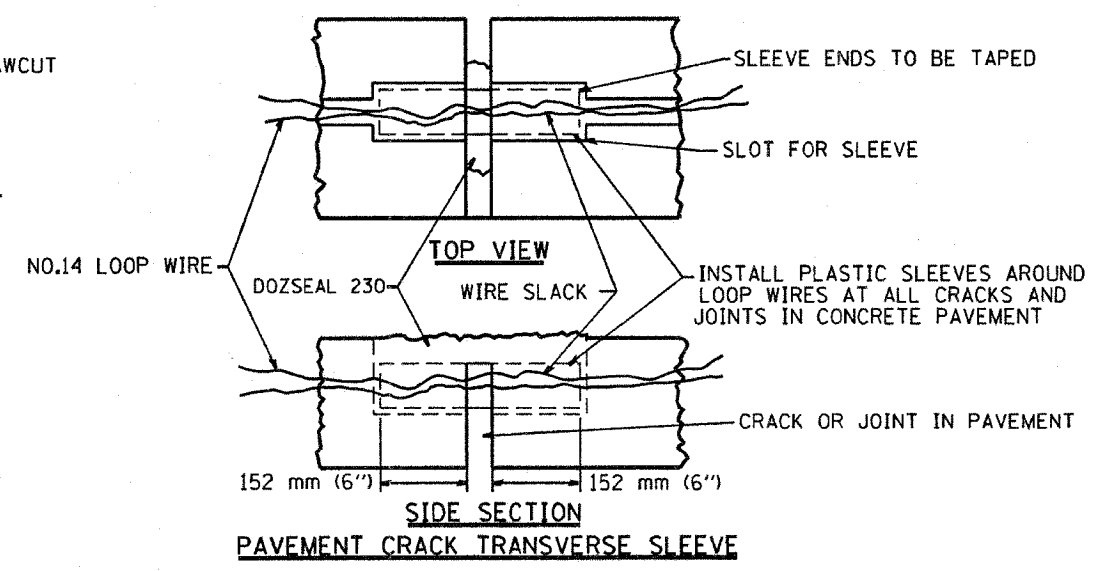
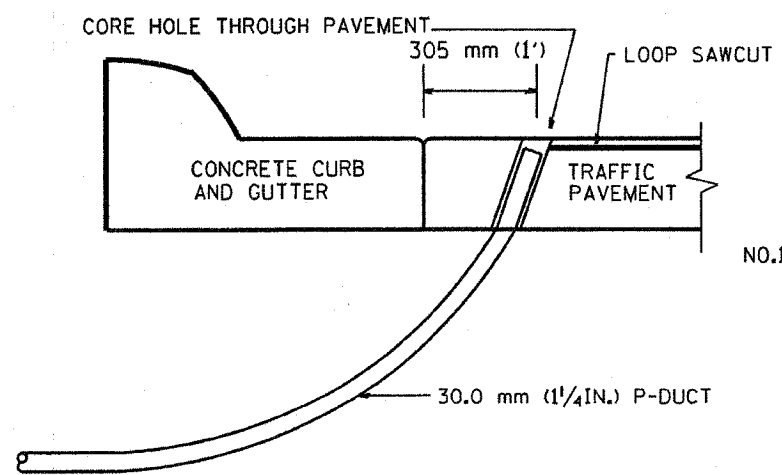
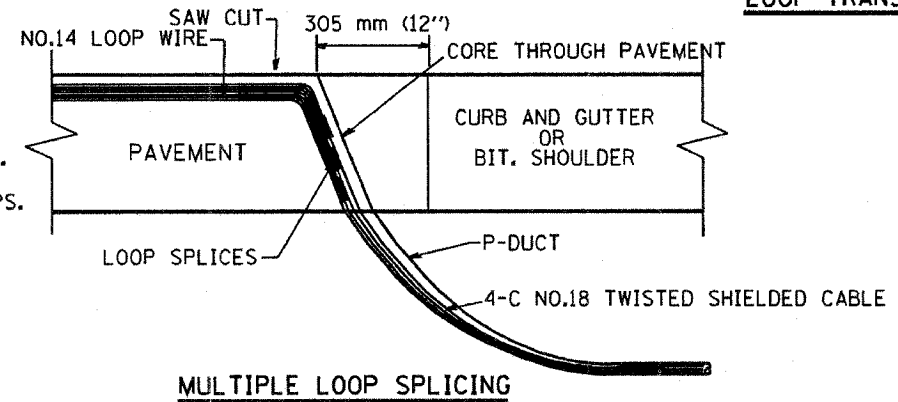
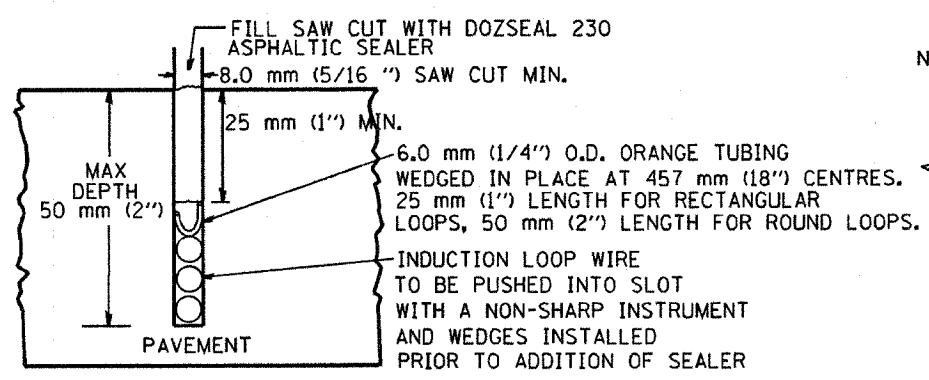
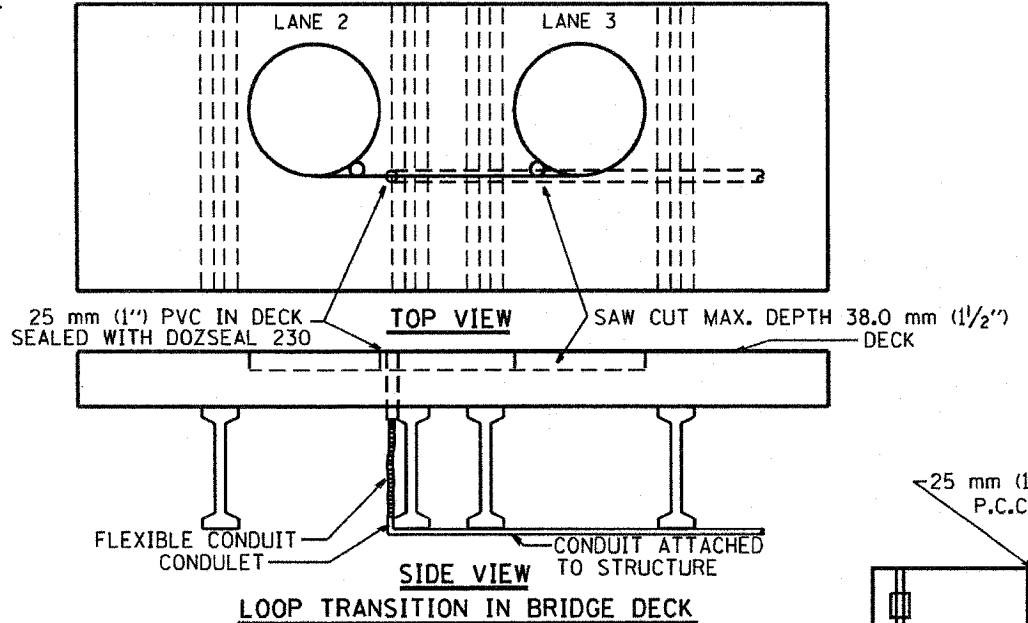
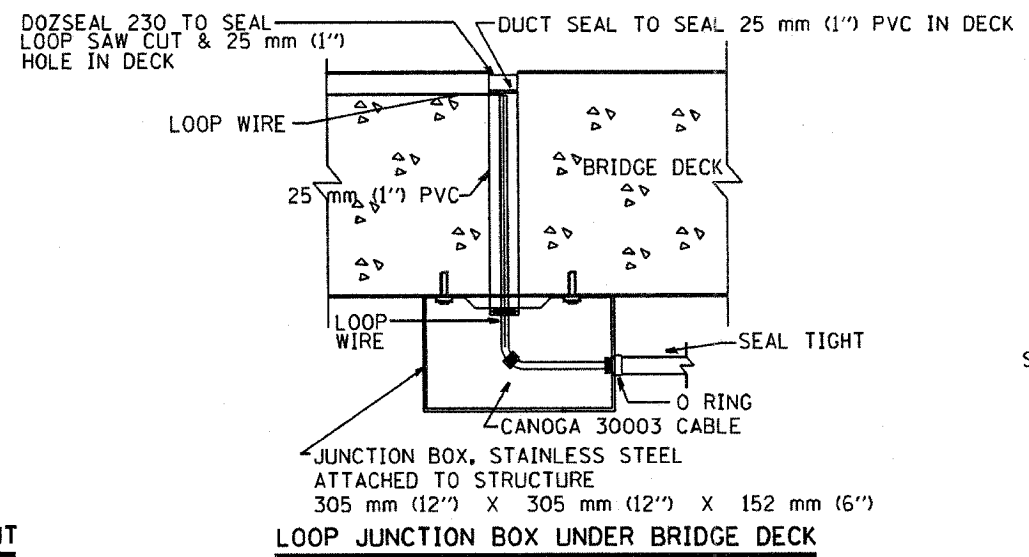
RD-TYPNET.DGN
 01*

VI-4182

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			90	77
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



TYPICAL LOOP SAWCUT LAYOUT



REVISIONS	
NAME	DATE
R.L.	6/94
R.L.	3/95
T.C.	11/95
R.L.	05/96
T.C.	10/96

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

**LOOP, CONDUIT & DUCT
INSTALLATION DETAILS**

SCALE: VERT. NONE
HORIZ. NONE

DATE 6-22-94

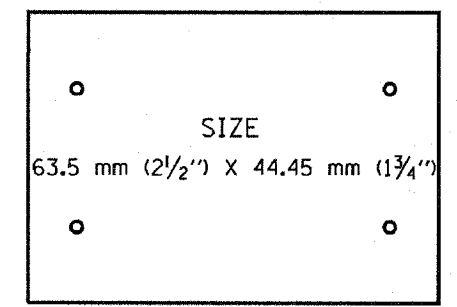
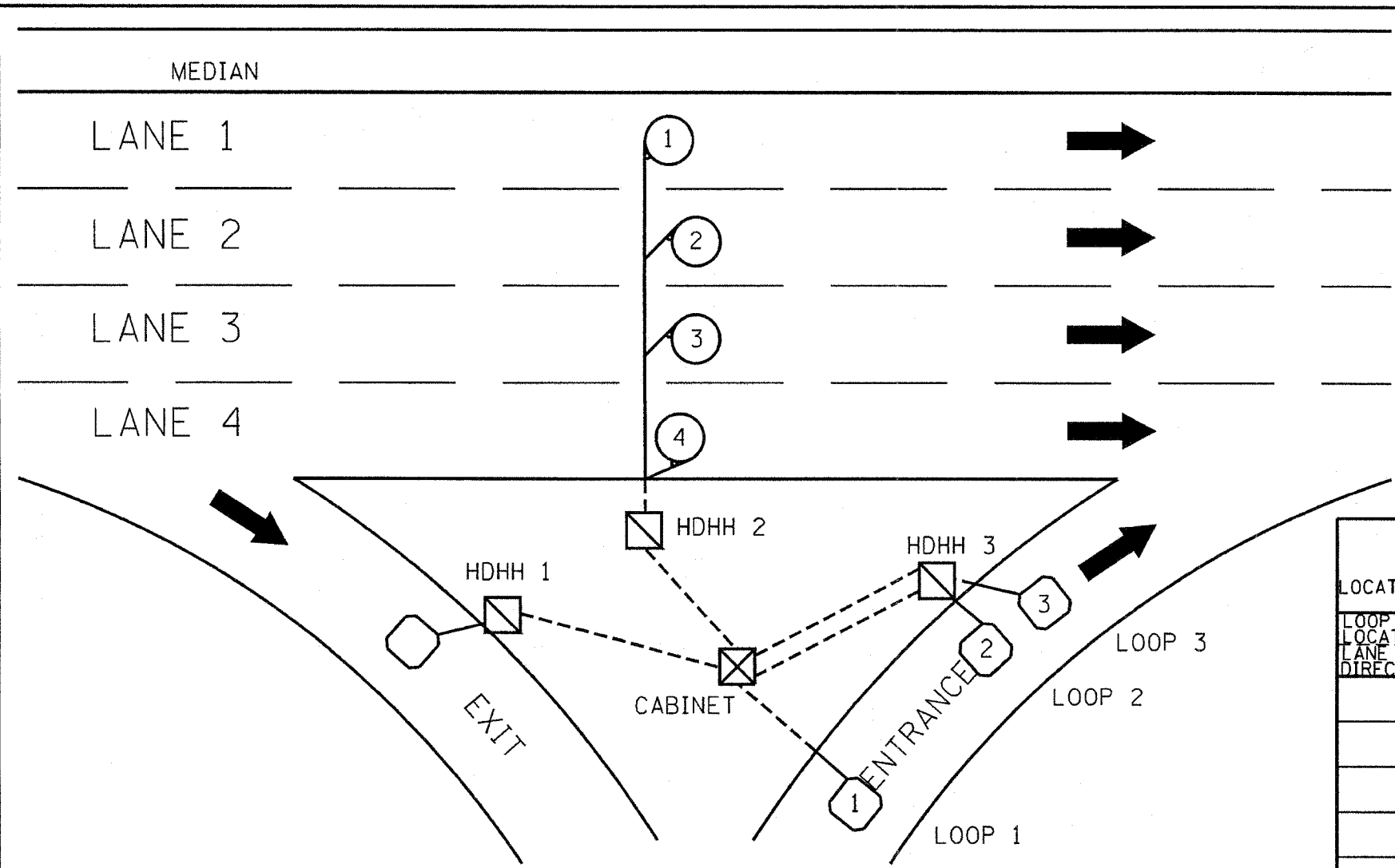
DRAWN BY G.W.
CHECKED BY R.L.

RD-TYPMET.DGN
RF*

V1-4184

CONTRACT NO 62686

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
			94	78
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SUGGESTED TAG PANDUIT
*MP250W175-C
OR EQUIVALENT

LOOP ANALYZER					
LOCATION _____				DATE _____	
LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE

IB-EB EXIT CCW IN/ TO CABINET # ____
--

HDHH 2 EXAMPLE

IB (OB) LANE # ____ CCW /OUT TO CABINET # ____
--

HDHH 3 EXAMPLE

IB-EB ENT. LOOP #2 CW IN/

NOTE:
EACH LOOP WIRE SHALL BE TAGGED AS "IN" OR "OUT" AND "CW" OR "CCW". SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.

REVISIONS	
NAME	DATE
R.L.	6/94
T.C.	10/96

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER
LOOP STATUS REPORT
SCALE: VERT. NONE
DATE 6-27-94
DRAWN BY G.M.
CHECKED BY R.L.

RD-TYPMET.DGN
RP

VI-4187

B.M. - Engineer to set temporary benchmark in field as necessary.

Existing Structure - Structure No. 016-0102, built as S.A. Route 263, Section 263-0909.2-15D at Station 394+08.30 in 1949, rehabilitated and widened in 1979 as FAI Route 94 (Edens Expressway), Section 1975-121-R & BR. The existing structure consists of a non-composite reinforced concrete deck supported by simple span steel plate girders and rolled beams. The substructure consists of steel reinforced concrete full height abutments supported on pile foundations. An underpass tunnel is integral with the north abutment below the north approach.

Stage construction shall be utilized to maintain traffic during construction.

No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 94/ F.A.P. 346	RS	COOK	91	79
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 62636

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

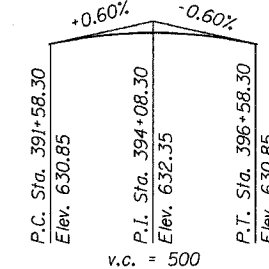
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

EXISTING CURVE DATA

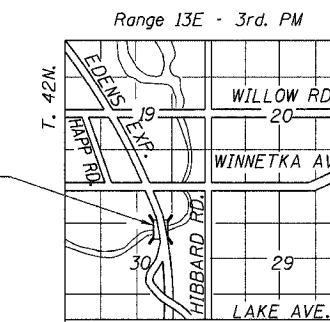
$\Delta = 26^\circ 24'$ $E = 97.19'$
 $D = 1^\circ 36'$ $R = 3581.10'$
 $T = 839.95$ $S = 0.038'/ft.$
 $L = 1650.00$ $P.I. = Sta. 387+50.54N$

SCOPE OF WORK

1. Provide Protective Shield with limits as indicated.
 2. Perform substructure repairs (structural repair of concrete and epoxy crack injection).
- Stage II:
3. Close Stage II construction areas to traffic.
 4. Hydro-Scarify the deck slab.
 5. Remove and replace expansion joints and surrounding concrete (including parapets).
 6. Perform deck slab repair.
 7. Remove existing floor drains and install new scuppers at existing locations.
 8. Place Overlay.
 9. Overlay bridge approaches (See Civil Plans).
 10. Open Stage II construction area to staged traffic.
- Stage III:
11. Close Stage III Removal areas to traffic.
 12. Repeat steps 4-9 but for Stage III construction.
 13. Open bridge to traffic.



**EXISTING PROFILE GRADE
EDENS EXPRESSWAY**

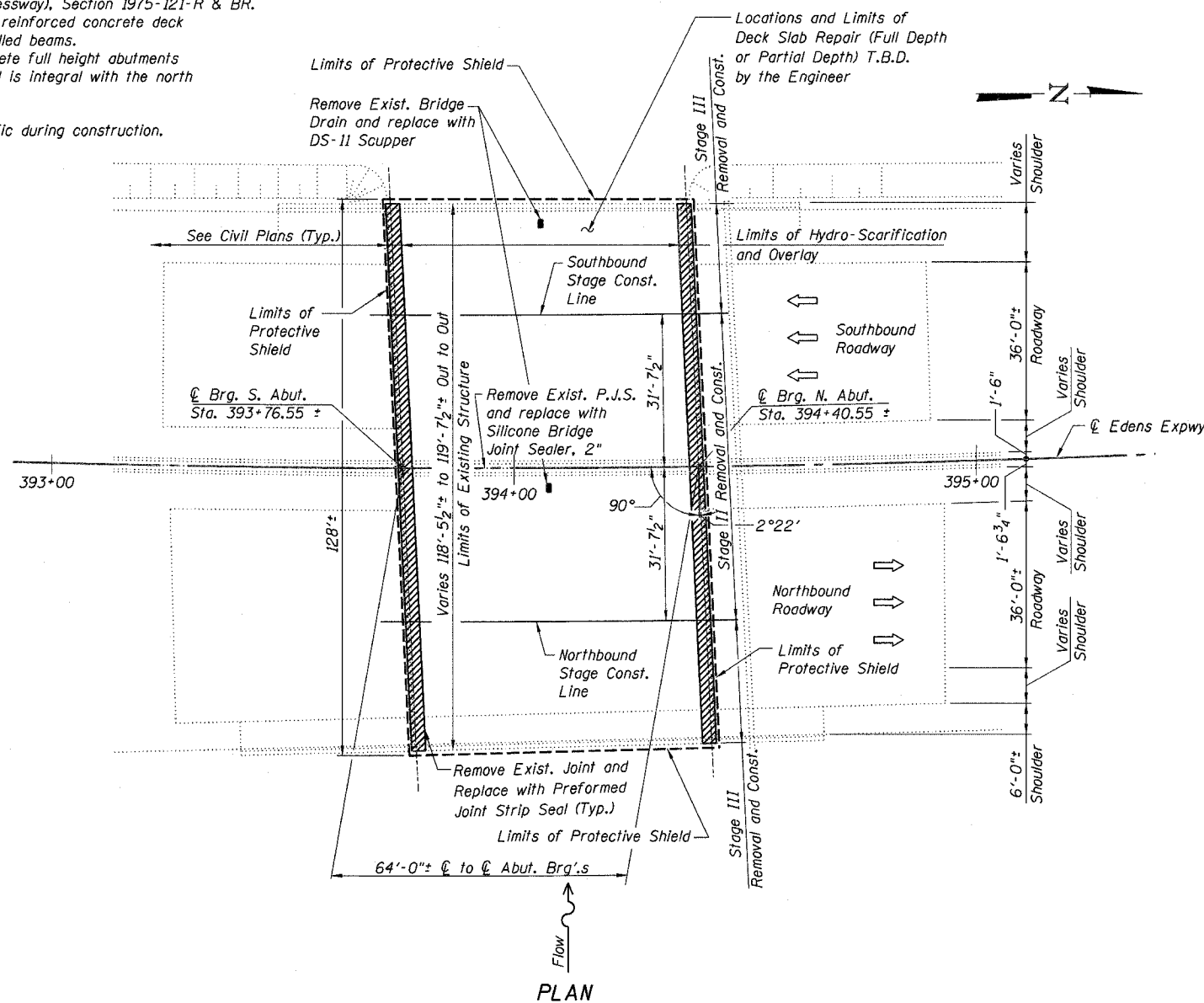


LOCATION SKETCH

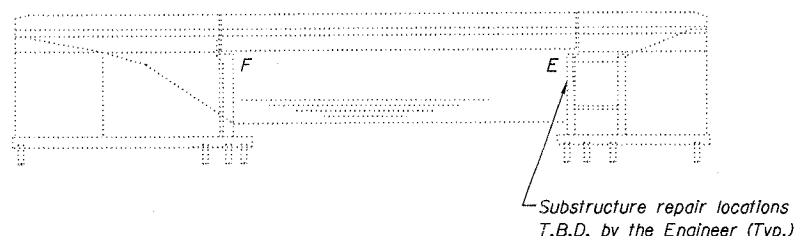
NOTES

1. For joint removal and replacement plans and details, see Sheet No. 83 thru 86.
2. See Structural Notes on Sheet No. 80.
3. See Civil Plans for Maintenance of Traffic Plans & Details.

**GENERAL PLAN AND ELEVATION
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102**



PLAN



**ELEVATION
(Looking West)**

LEGEND

- Limits of Protective Shield
- ▨ Concrete Removal / Joint Reconstruction

DESIGNED -	DWH
CHECKED -	JSD
DRAWN -	EF
CHECKED -	JSD

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS



6/22/07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
F.A.I.-94/ F.A.P. 346	2003-071 RS	COOK	91	80
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 62636

STRUCTURAL NOTES

- Expansion joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.
 - Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with "Concrete Removal."
5. Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- Stage construction shall be utilized to maintain traffic during construction.
 - The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams and diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
 - The Contractor shall provide a Protective Shield under the deck for Full Deck Slab repairs as per direction of the Engineer and as shown on the plans.
9. The Contractor may have to remove the Name Plate(s) that interfere with the parapet removal for joint reconstruction. The Contractor shall reinstall the Name Plate(s) as directed by the Engineer. The cost of removal and reinstallation of Name Plate(s) shall be included in the cost for "Concrete Removal" and "Concrete Superstructure."
- Protective coat shall be applied only to the new concrete provided for the reconstruction of the joints (top of deck slab, top and traffic face of parapet).
 - The Engineer shall determine extent, location and type of substructure and deck slab repairs in the field.
 - Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or die penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that can not be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

DESIGNED -	JSD
CHECKED -	DWH
DRAWN -	EF
CHECKED -	DWH

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Concrete Removal	Cu. Yd.	25.7		25.7
Protective Shield	Sq. Yd.	873		873
Concrete Superstructure	Cu. Yd.	29.8		29.8
Bridge Deck Grooving	Sq. Yd.	791		791
Protective Coat	Sq. Yd.	83		83
Reinforcement Bars, Epoxy Coated	Pound	4,330		4,330
Bar Splicers	Each	52		52
Preformed Joint Strip Seal	Foot	240		240
Epoxy Crack Injection	Foot		200	200
Bridge Deck Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	770		770
Bridge Deck Hydro-Scarification, 1/2"	Sq. Yd.	770		770
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5		5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	39		39
Silicone Bridge Joint Sealer, 2"	Foot	66		66
Drainage Scuppers, DS-11	Each	2		2
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.		50	50

- Field welding of construction accessories will not be permitted to beams or girders.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06 of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Protective shielding shall be installed to insure that all electrical appurtenances below the bridge deck are adequately protected.

ABBREVIATION LIST

Abut.	Abutment	F/	Face of	R or Rad.	Radius
Alt.	Alternate	Ft.	Foot or Feet	RR	Railroad
		Fig.	Footing	Req'd	Required
Bk.	Back	Gr.	Grade	Rt.	Right
Brg.	Bearing			Sht.	Sheet
Btwn.	Between			Spa.	Spaces or Spacing
B/	Bottom of	Jt.	Joint	Sq.	Square
Bot.	Bottom			S.S.	Stainless Steel
		L	Angle	Std.	Standard
CIP	Cast in Place	Lf.	Left	Sta.	Station
CL	Centerline	Lg.	Long	Stl.	Steel
Cts.	Centers			St.	Street
Cl.	Clear	Max.	Maximum	Sym.	Symmetrical
Conc.	Concrete	Min.	Minimum		
CJ	Construction Joint	Nom.	Nominal	Temp.	Temporary
Const(r).	Construction	N.T.S.	Not to Scale	Thk.	Thick
		No(s).	Number(s)	T.B.D.	To be determined
Dia.	Diameter	Opp.	Opposite	T/	Top of
				Typ.	Typical
Ea.	Each			UNO	Unless Noted Otherwise
E	East	Pavt.	Pavement		
E/	Edge of	PL	Plate	VIF	Verify in Field
El. or Elev.	Elevation	P.C.	Precast		
Exist.	Existing	P.J.F.	Preformed Joint Filler		
Exp.	Expansion	P.J.S.	Preformed Joint Sealer	W	West
Exp.	Expressway	PGL	Profile Grade Line	W/	With
		Prop.	Proposed		

INDEX OF SHEETS

- GENERAL PLAN & ELEVATION
- STRUCTURAL NOTES, TOTAL BILL OF MATERIAL AND INDEX OF SHEETS
- TYPICAL SECTION THRU BRIDGE
- CONSTRUCTION STAGING DETAILS
- EXPANSION JOINT REMOVAL & REPLACEMENT PLAN
- EXPANSION JOINT REMOVAL & REPLACEMENT DETAILS I
- EXPANSION JOINT REMOVAL & REPLACEMENT DETAILS II
- EXPANSION JOINT REMOVAL & REPLACEMENT DETAILS III
- BAR SPLICER ASSEMBLY DETAILS
- DRAINAGE SCUPPER REMOVAL & REPLACEMENT PLAN
- DRAINAGE SCUPPER DETAILS
- TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
- SCARIFICATION AND OVERLAY DETAILS

Bar Size	Min. Lap
#4	1'-8"
#5	2'-2"
#5*	3'-0"
#6	2'-7"
#6*	3'-7"
#7	3'-5"
#8	4'-6"

* Top Horizontal Bar

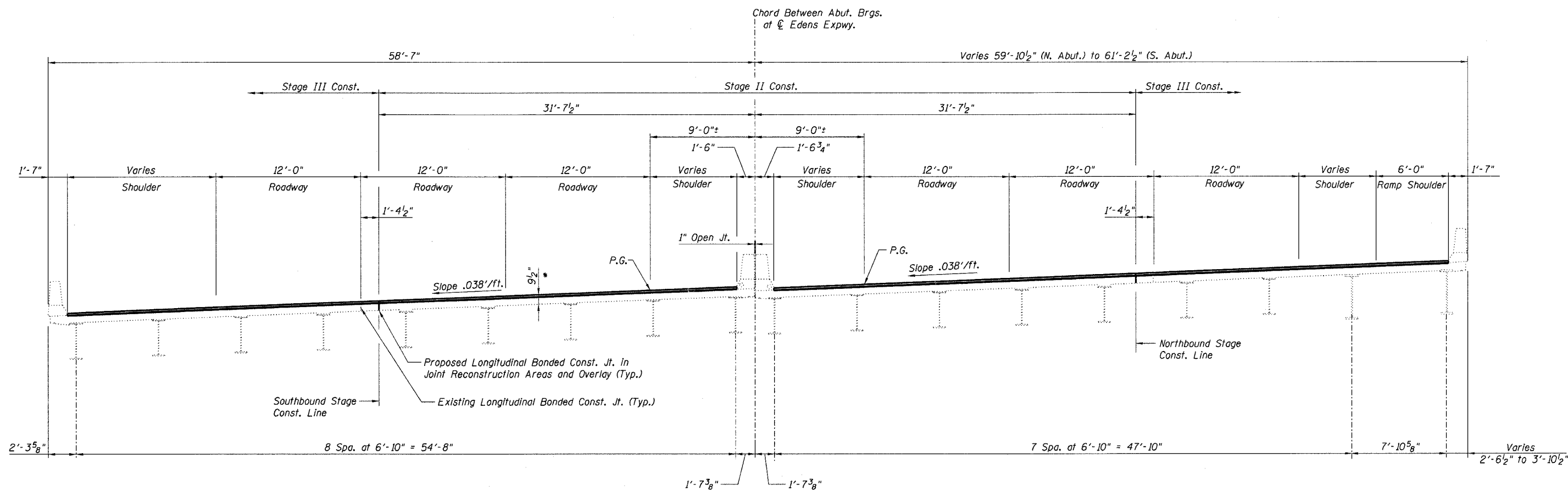
STRUCTURAL NOTES, TOTAL BILL OF MATERIAL AND INDEX OF SHEETS
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-94/ F.A.P. 346	2003-071 RS	COOK	91	81
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 62636



TYPICAL SECTION
(Looking North)

* Deck Slab replacement in joint reconstruction locations only. See Sheet No. 83 for limits. In typical locations, proposed slab will consist of 7" slab and 2 1/2" latex concrete overlay. See Sheet No. 91 for details.

NOTES

1. For joint removal limits see Sheet Nos. 83 and 84.
2. Stage I does not include any bridge work.

TYPICAL SECTION THRU BRIDGE
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

DESIGNED -	JSD
CHECKED -	DWH
DRAWN -	EF
CHECKED -	DWH

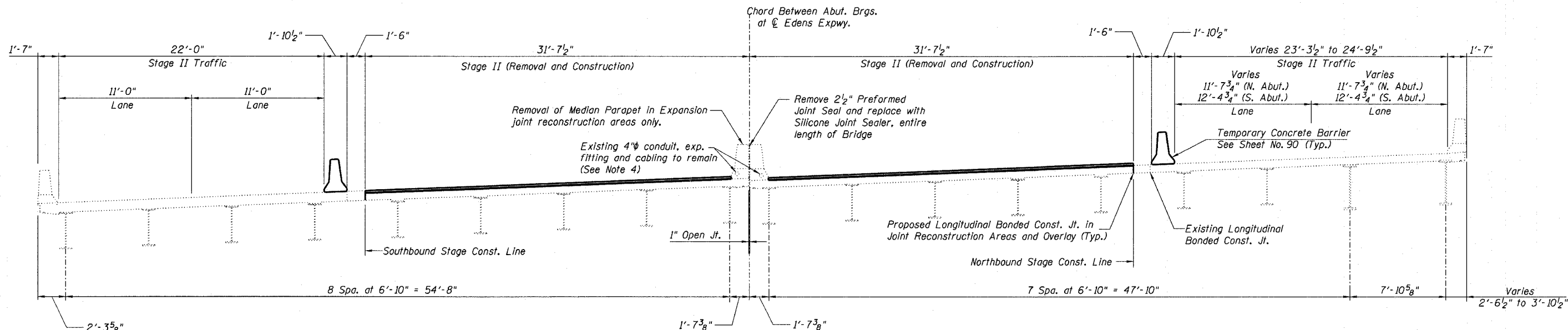
LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

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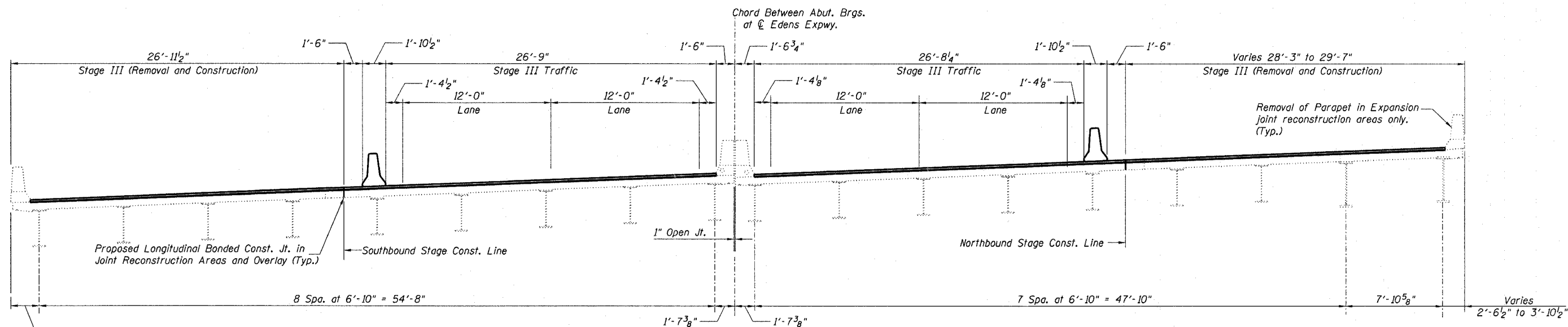
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 94/ F.A.P. 346	2003-071 RS	COOK	91	82
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 62636



STAGE II
(Looking North)



STAGE III
(Looking North)

NOTES

1. For stage dimensions at joint, see Sheet No. 83.
2. For joint removal limits see Sheet Nos. 83 and 84.
3. Stage I does not include any bridge work.
4. The Contractor shall exercise extreme care with the existing conduits in sections of the parapet to be removed and to protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer. No splicing will be allowed to any cable damage resulting from this work; instead the Contractor will be required to replace the entire span of any damaged cable.

CONSTRUCTION STAGING DETAILS
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

DESIGNED -	JSD
CHECKED -	DWH
DRAWN -	EF
CHECKED -	DWH

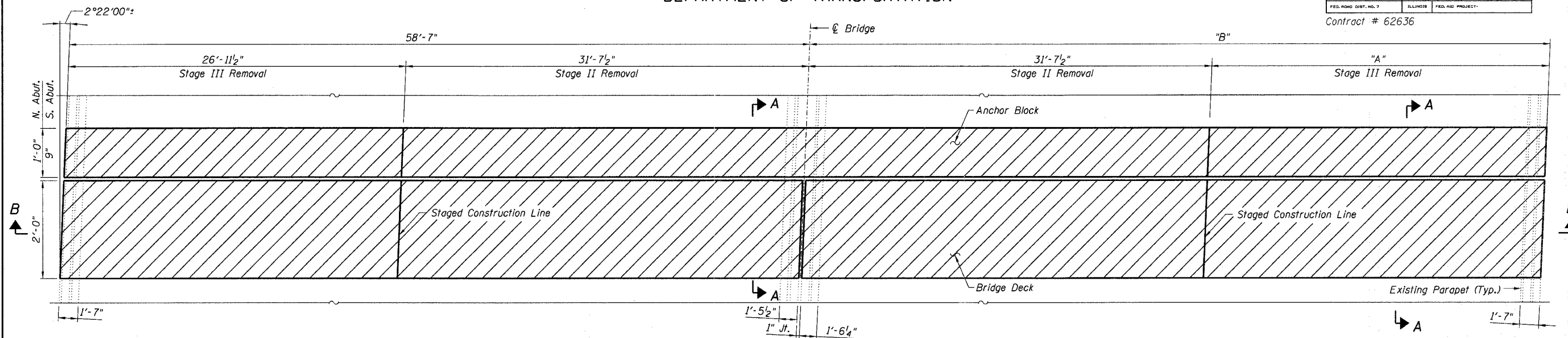
LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

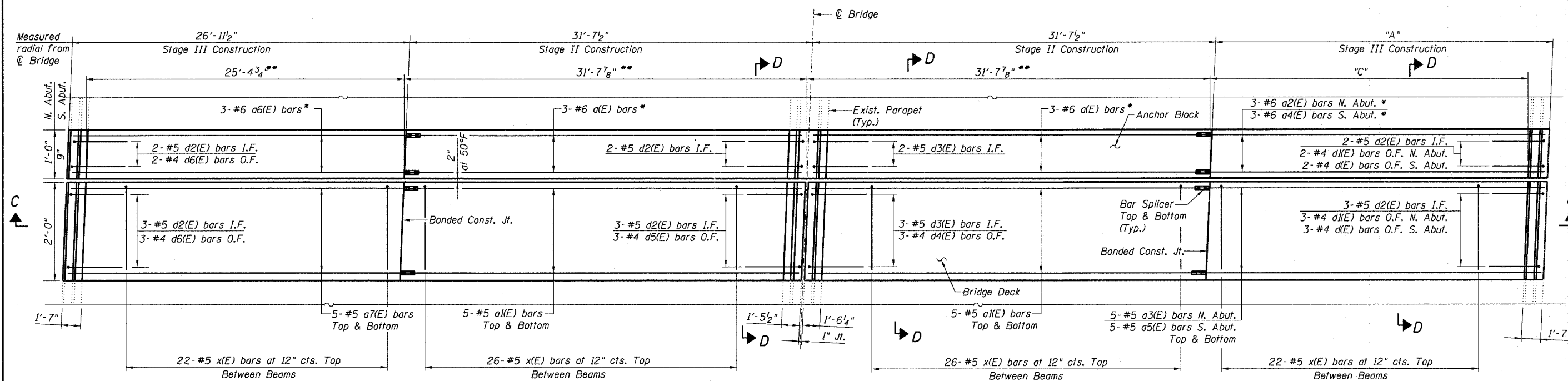
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 94/ F.A.P. 346	2003-071 RS	COOK	91	83
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 62636



REMOVAL PLAN AT N. ABUT.

S. Abut. similar by rotation



PROPOSED PLAN AT N. ABUT.

S. Abut. similar by rotation

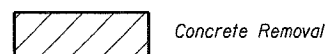
* Located as shown in Sections on Sheet No. 84.

** Measured along face of abutment backwall.

NOTES

- All Reinforcement Bars are to be spaced equally unless otherwise noted.
- Work this sheet with Sheet No. 84.
- Reinforcement bars designated (E) shall be epoxy coated.
- O.F. denotes Outside Face; I.F. denotes Inside Face.
- Dimensions are based on a Rolled Rail Strip Seal Joint.
- If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet No. 86.
- For Bill of Material and bar details see Sheet No. 85.
- Stage I does not include any bridge work.

LEGEND



DIMENSIONS TABLE

	N. Abut.	S. Abut.
A	28'-3"	29'-7"
B	59'-10½"	61'-2½"
C	26'-8¼"	28'-2¼"

**EXPANSION JOINT REMOVAL
AND REPLACEMENT PLAN
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102**

DESIGNED -	KMS/DWH
CHECKED -	JSD
DRAWN -	EF
CHECKED -	DWH/JSD

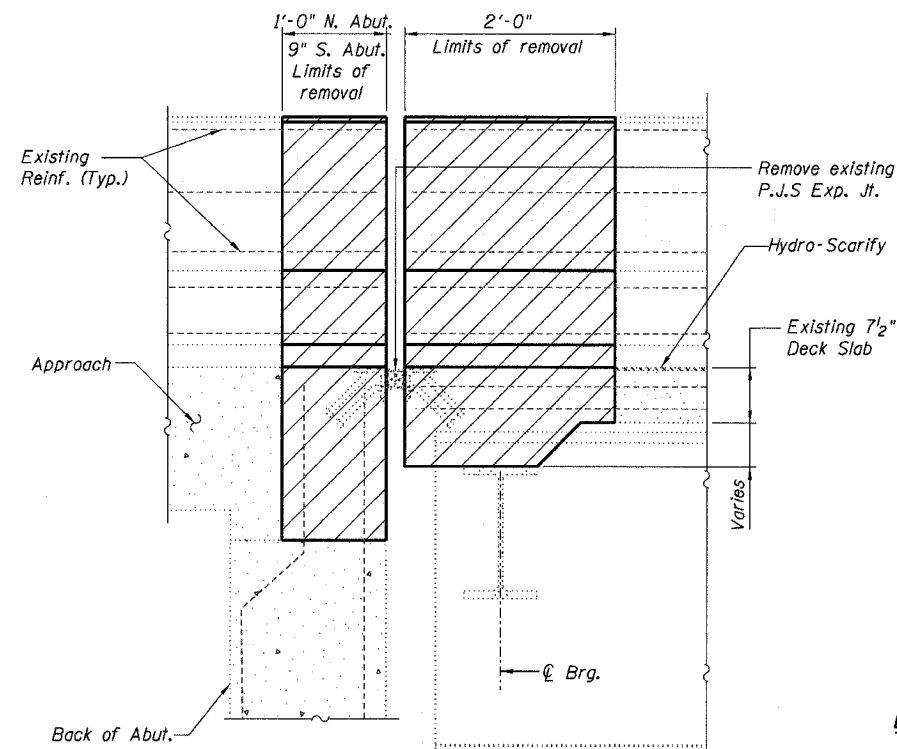
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H.W. LOCHNER, INC., CHICAGO, ILLINOIS

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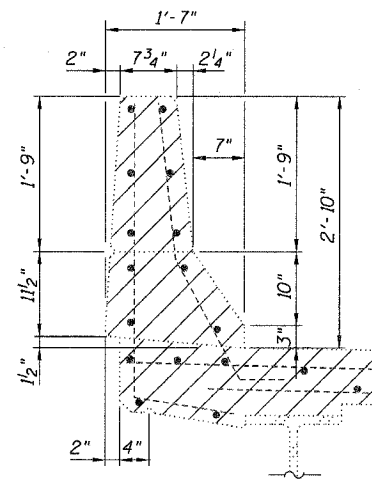
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94/ F.A.P. 346	2003-071 RS	COOK	91	84
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

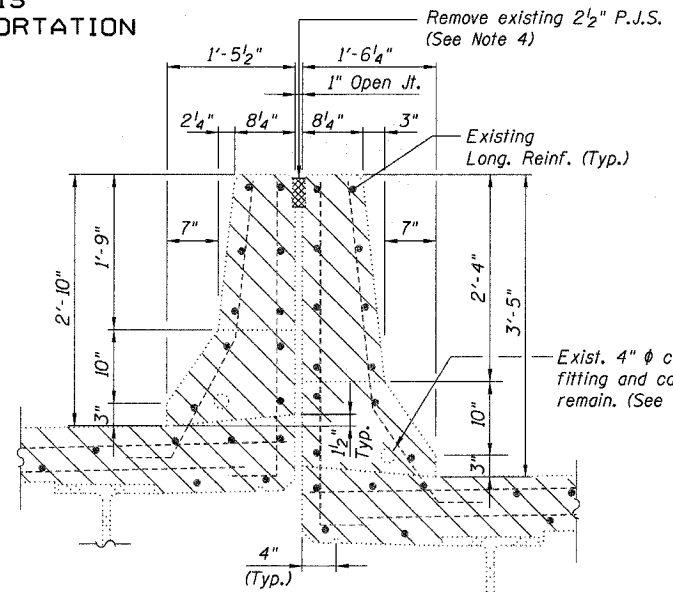
Contract # 62636



SECTION A-A

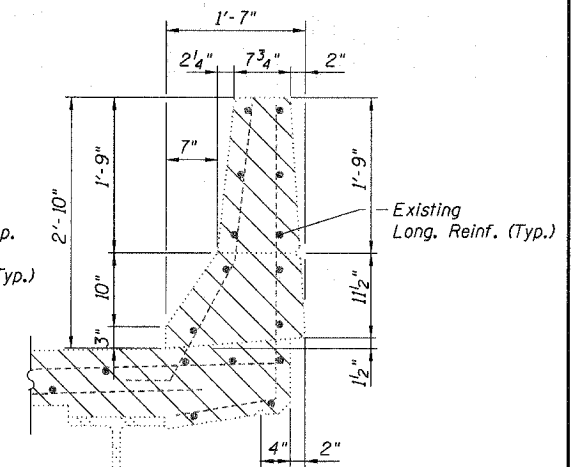


SB PARAPET



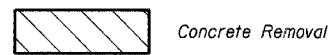
SB MEDIAN PARAPET

NB MEDIAN PARAPET

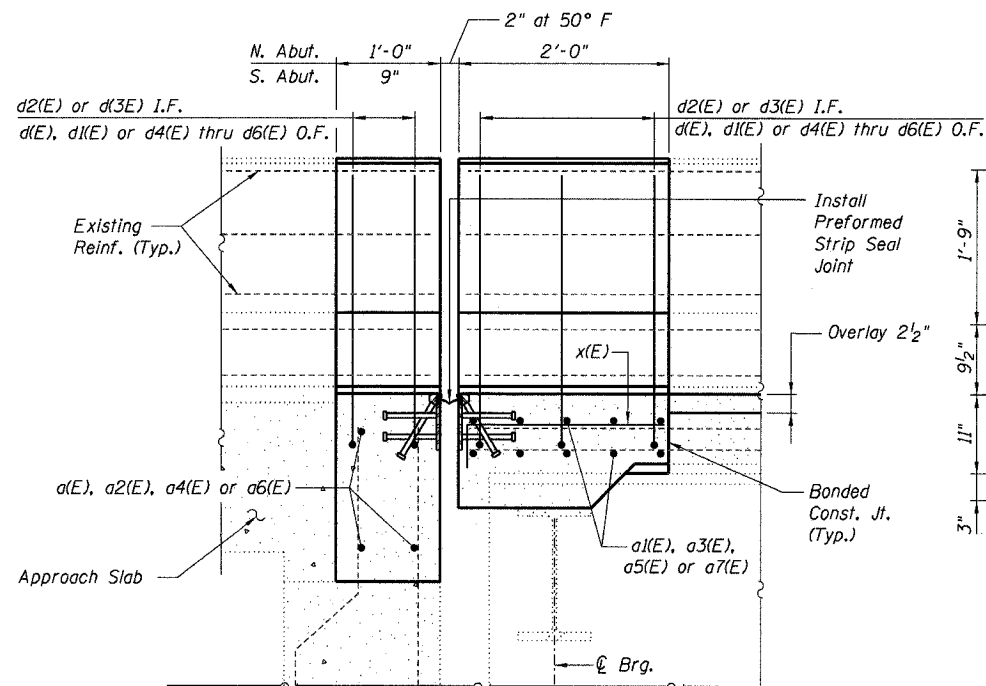


NB PARAPET

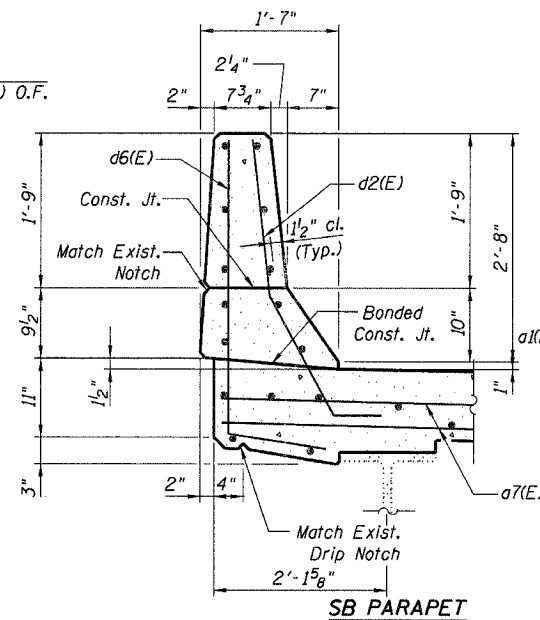
LEGEND



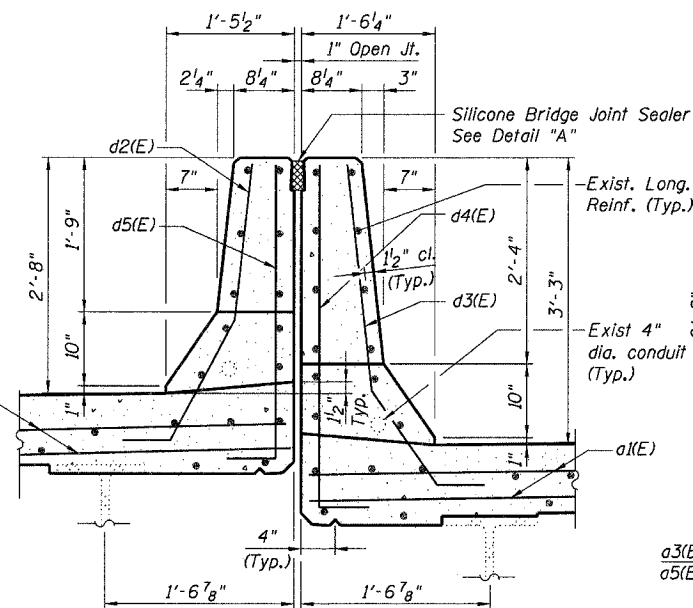
SECTION B-B



SECTION D-D



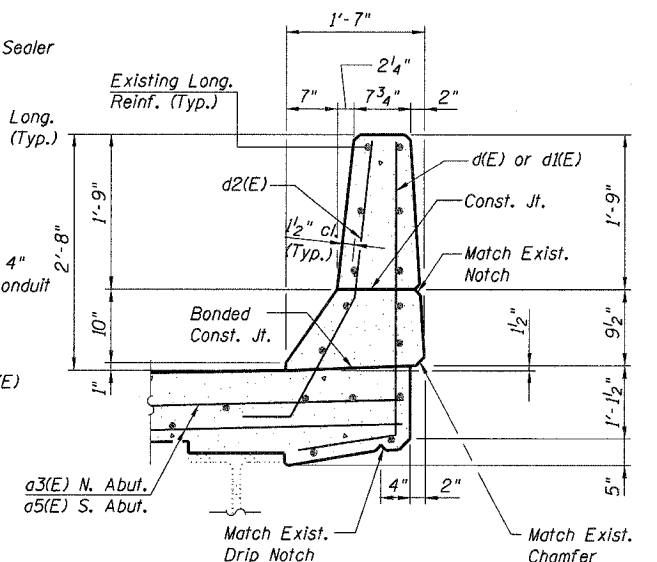
SB PARAPET



SB MEDIAN PARAPET

NB MEDIAN PARAPET

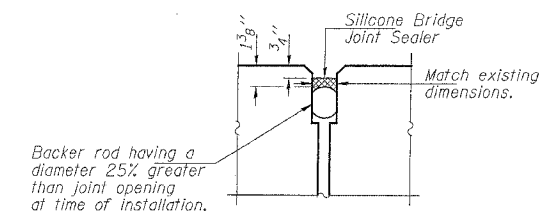
SECTION C-C



NB PARAPET

NOTES

1. I.F. denotes Inside Face, O.F. denotes Outside Face.
2. Work required for removal of existing expansion joint shall be included in the cost of Concrete Removal.
3. Work this Sheet with Sheet No. 83.
4. Work required for removal of existing median P.J.S shall be included in the cost of Silicone Bridge Joint Sealer, 2".
5. The Contractor shall exercise extreme care with the existing conduits in sections of the parapet to be removed and to protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer. No splicing will be allowed to any cable damage resulting from this work; instead the Contractor will be required to replace the entire span of any damaged cable.



DETAIL "A"

EXPANSION JOINT REMOVAL
AND REPLACEMENT DETAILS I
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

DESIGNED -	KMS/DWH
CHECKED -	JSD
DRAWN -	EF
CHECKED -	DWH/JSD

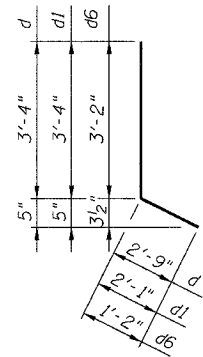
LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

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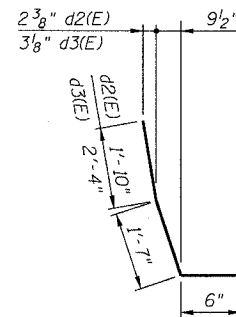
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-94/ F.A.P. 346	2003-07/ RS	COOK	91	85
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

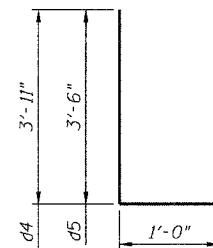
Contract # 62636



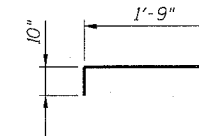
BARS d(E), d1(E), & d6(E)



BARS d2(E) & d3(E)



BARS d4(E) & d5(E)



BAR x(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	12	#6	31'-4"	—
a1(E)	40	#5	31'-4"	—
a2(E)	3	#6	28'-0"	—
a3(E)	10	#5	28'-0"	—
a4(E)	3	#6	29'-2"	—
a5(E)	10	#5	29'-2"	—
a6(E)	6	#6	26'-8"	—
a7(E)	20	#5	26'-8"	—
d(E)	5	#4	6'-1"	L
d1(E)	5	#4	5'-5"	L
d2(E)	30	#5	3'-11"	L
d3(E)	10	#5	4'-5"	L
d4(E)	6	#4	4'-11"	L
d5(E)	6	#4	4'-6"	L
d6(E)	10	#4	4'-4"	L
x(E)	192	#5	2'-7"	—
Concrete Removal		Cu. Yd.	25.4	
Concrete Superstructure		Cu. Yd.	29.5	
Bridge Deck Grooving		Sq. Yd.	791	
Protective Coat		Sq. Yd.	83	
Reinforcement Bars, Epoxy Coated		Pound	4,320	
Silicone Bridge Joint Sealer, 2"		Foot	66	

Reinforcement bars designated (E) shall be epoxy coated.

**EXPANSION JOINT REMOVAL
AND REPLACEMENT DETAILS II
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102**

DESIGNED -	KMS/DWH
CHECKED -	JSD
DRAWN -	EF
CHECKED -	DWH/JSD

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H.W. LOCHNER, INC., CHICAGO, ILLINOIS

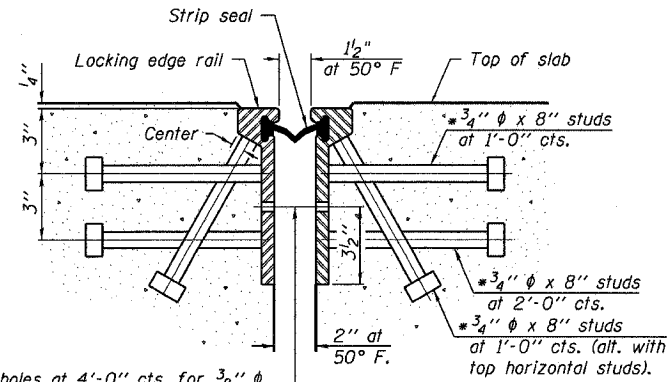
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

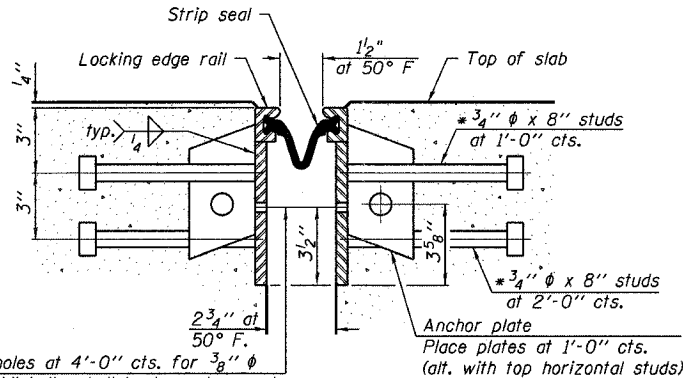
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I.-94/ F.A.P. 346	2003-071 RS	COOK	91	86
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract # 62636

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

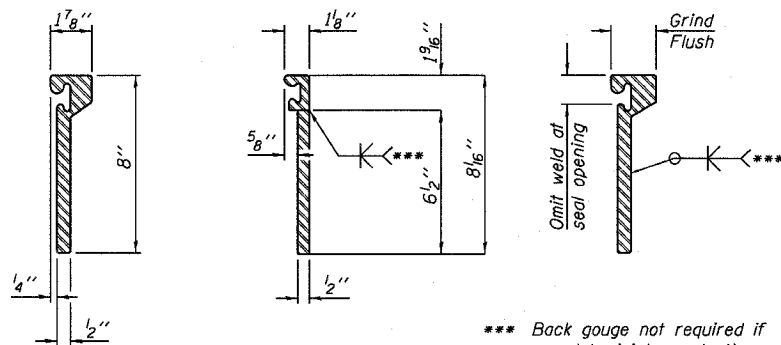
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

SECTION THRU
ROLLED RAIL JOINT

SECTION THRU
WELDED RAIL JOINT



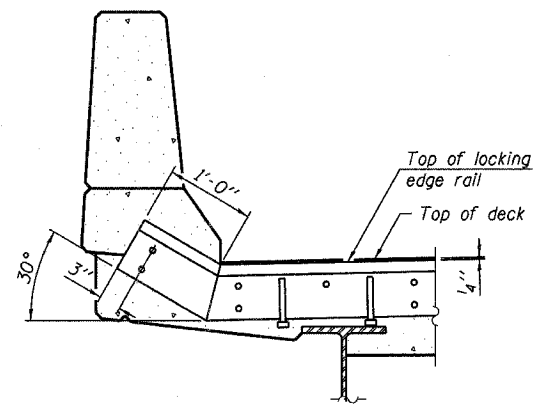
ROLLED
(EXTRUDED) RAIL WELDED RAIL

*** Back gouge not required if complete joint penetration is verified by mock-up.

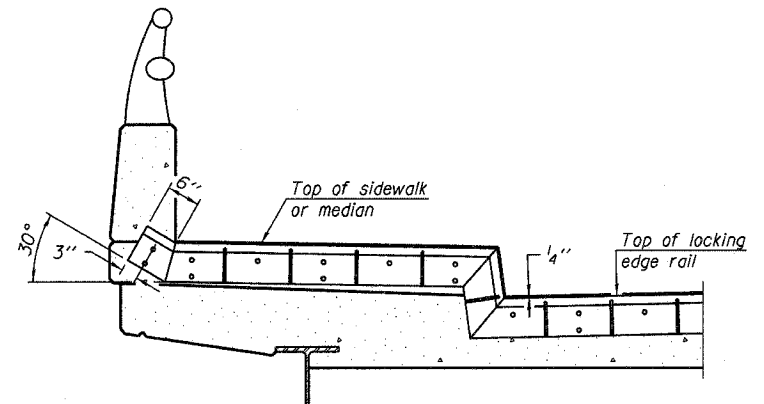
LOCKING EDGE
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

ANCHOR PLATE
(for welded rail)



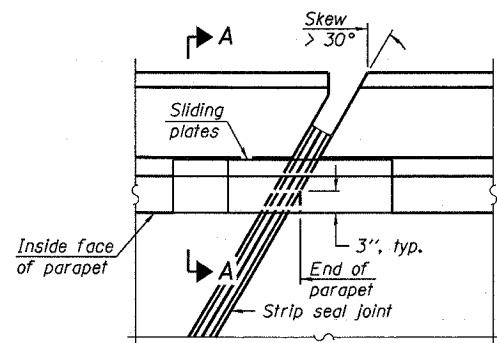
AT PARAPET



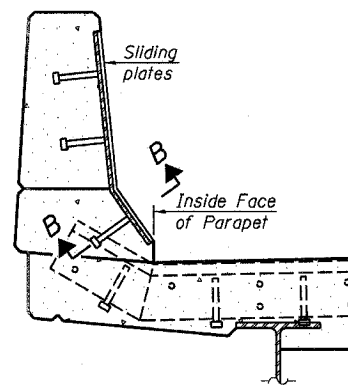
AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

LOCKING EDGE RAILS

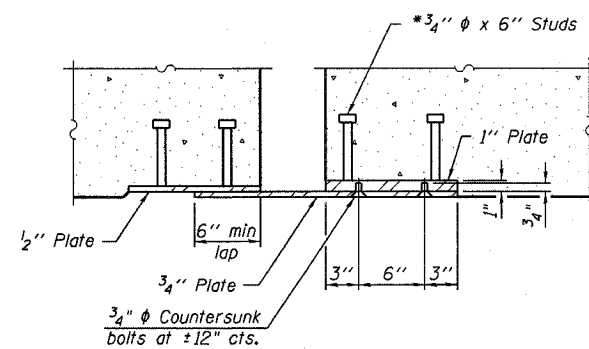


PLAN



SECTION A-A

POINT BLOCK DETAILS
(for skews > 30°)



SECTION B-B

TYPICAL END TREATMENTS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	240

EXPANSION JOINT REMOVAL
AND REPLACEMENT DETAILS III
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

DESIGNED -	KMS/DWH
CHECKED -	JSD
DRAWN -	EF
CHECKED -	DWH/JSD

EJ-SSJ

11-1-06

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-94/ F.A.P. 346	2003-071 RS	COOK	91	87
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 62636

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

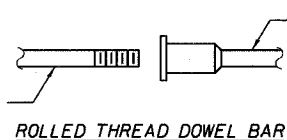
- ① Minimum Capacity = $1.25 \times f_y \times A_l$
(Tension in kips)
- ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_l$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.

A_l = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

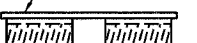
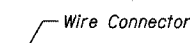
The diameter of this part is equal or larger than the diameter of bar spliced.



ROLLED THREAD DOWEL BAR



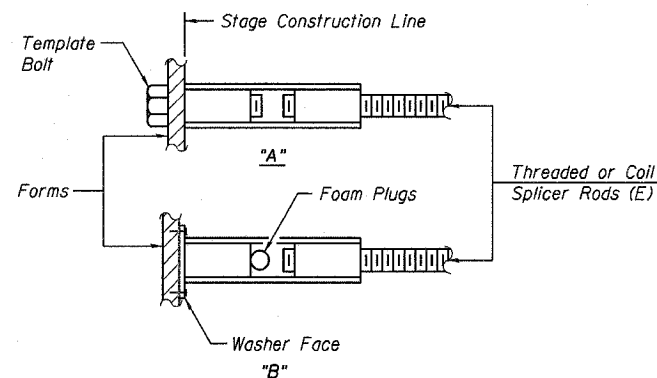
** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

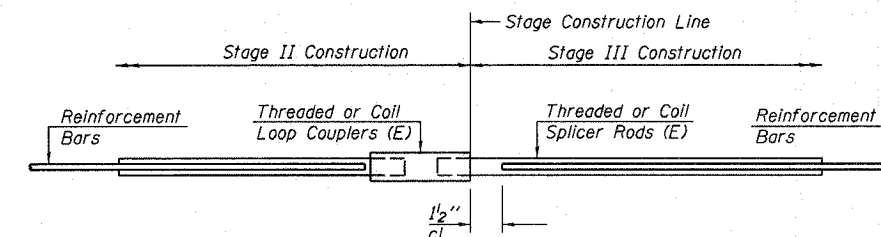
"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

BAR SPLICER ASSEMBLIES

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



STANDARD

Bar Size	No. Assemblies Required	Location
#5	40	Deck
#6	12	Abut. Backwall

BAR SPLICER ASSEMBLY DETAILS
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

DESIGNED -	KMS
CHECKED -	DWH
DRAWN -	EF
CHECKED -	DWH

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H.W. LOCHNER, INC., CHICAGO, ILLINOIS

BSD-1

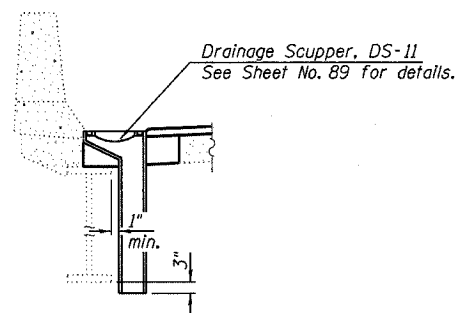
11-1-06

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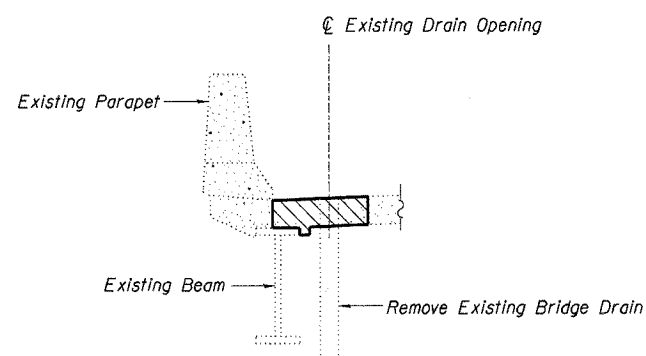
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 94/ F.A.P. 346	2003-07/ RS	COOK	91	88
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 62636



SECTION B-B

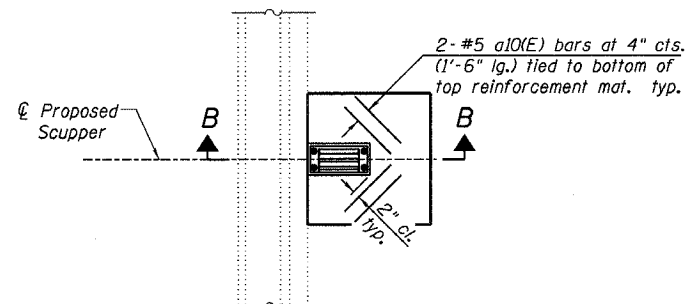


SECTION A-A

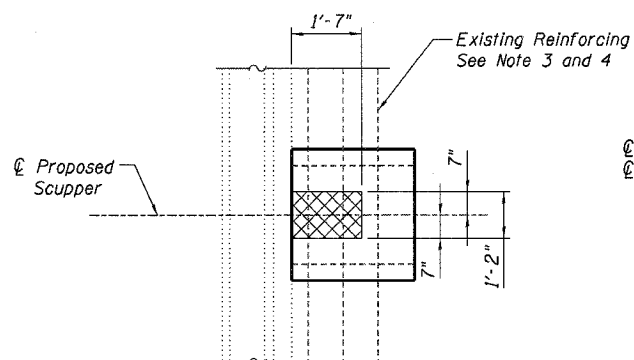
Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut 3/4" prior to the removal of concrete

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	8	#5	1'-6"	---
Concrete Removal			Cu. Yd.	0.3
Concrete Superstructure			Cu. Yd.	0.3
Reinforcement Bars, Epoxy Coated			Pound	10

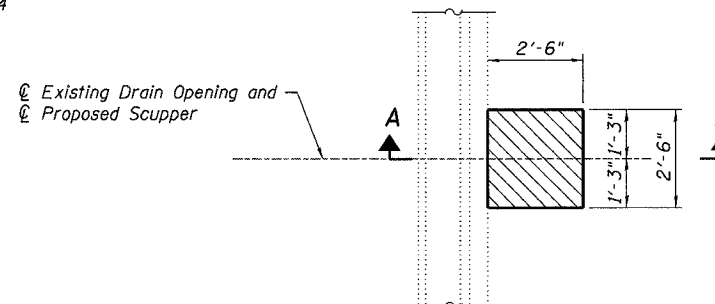


PROPOSED PLAN



EXISTING PLAN - SHOWING REINFORCING REMOVAL

Cross hatched area indicates limits of existing reinforcing steel to be removed



EXISTING PLAN - SHOWING CONCRETE REMOVAL LIMITS

(2 Locations)

NOTES

1. Removal of existing bridge drains is included in the cost of the pay item Concrete Removal.
2. Cut only reinforcing steel necessary to fit proposed Scupper.
3. All existing reinforcing bars to be cut/removed shall be approved by the Engineer prior to cutting/removal.

DESIGNED -	DWH
CHECKED -	JSD
DRAWN -	EF
CHECKED -	JSD

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H.W. LOCHNER, INC., CHICAGO, ILLINOIS

DRAINAGE SCUPPER REMOVAL
AND REPLACEMENT PLAN
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	NO. SHEETS	SHEET
F.A.I.-94/ F.A.P. 346	2003-071 RS	COOK	91	89
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 62636

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

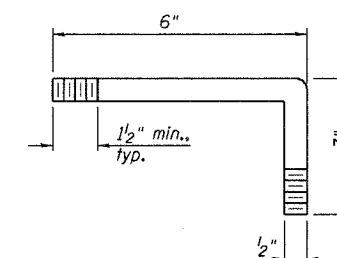
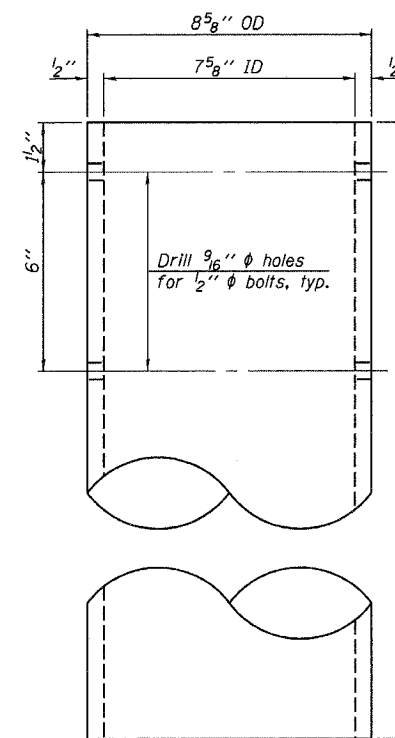
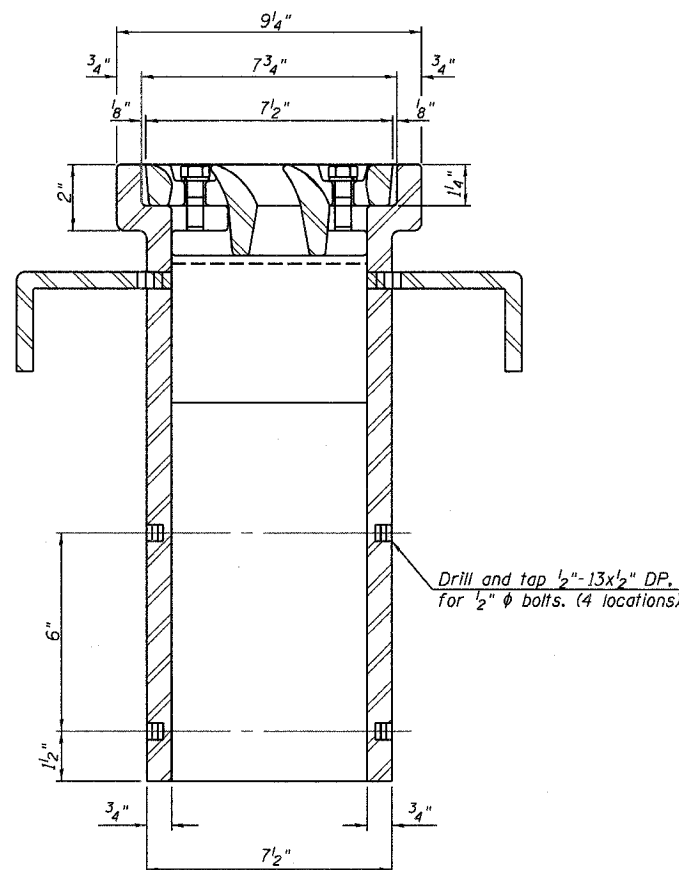
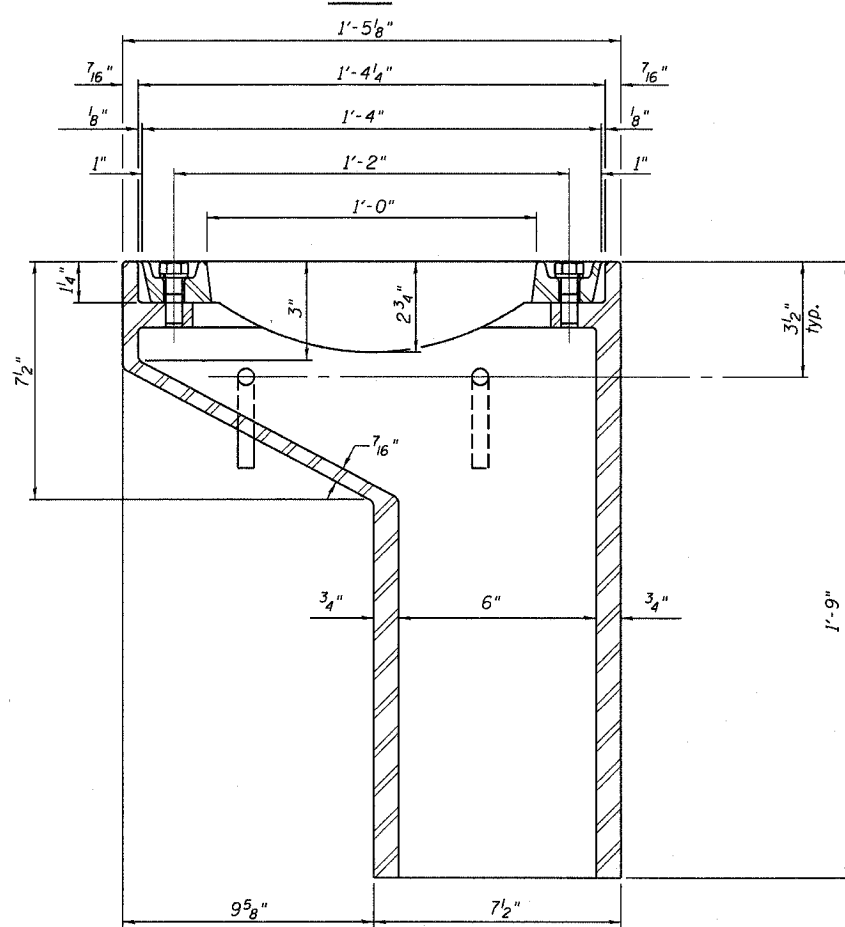
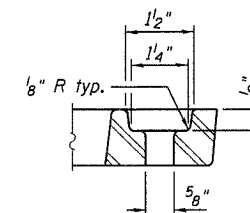
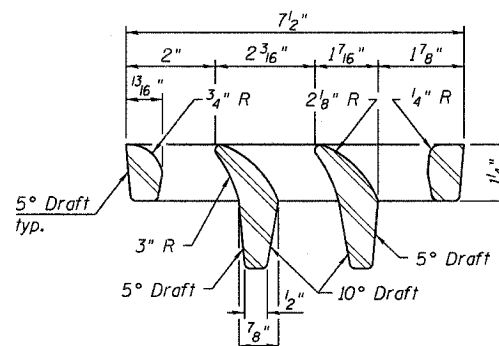
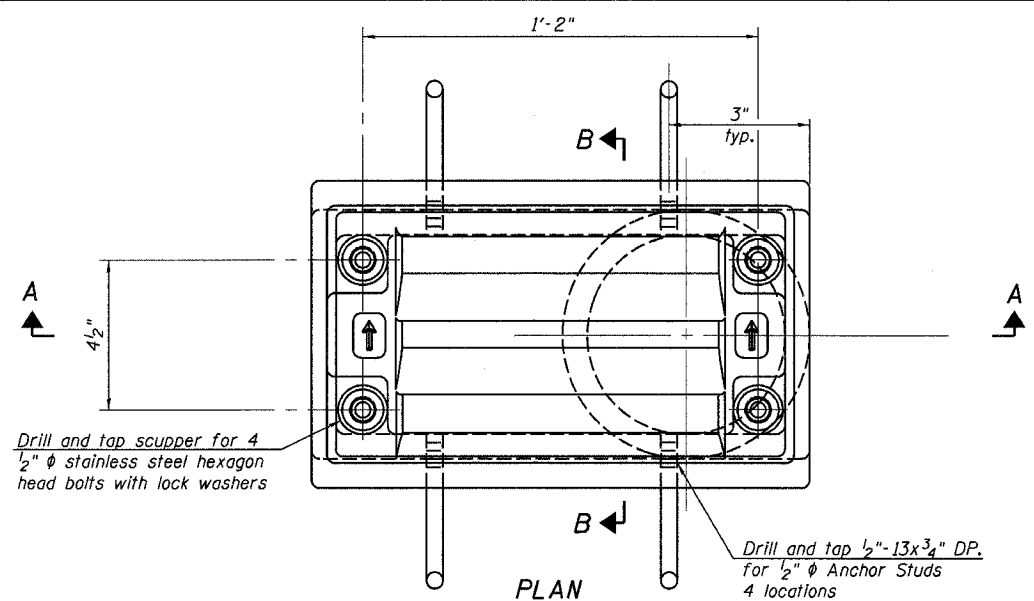
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	2

DESIGNED	-
CHECKED	-
DRAWN	EF
CHECKED	DWH

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H.W. LOCHNER, INC., CHICAGO, ILLINOIS

DS-11

11-1-06

DRAINAGE SCUPPER DETAILS
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

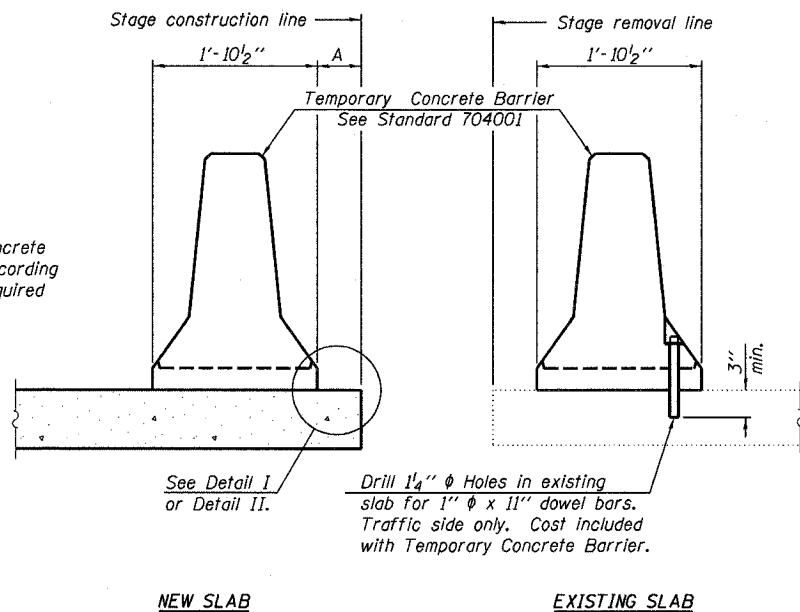
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 94/	2003-071	COOK	91	90
F.A.P. 346	RS			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 62636

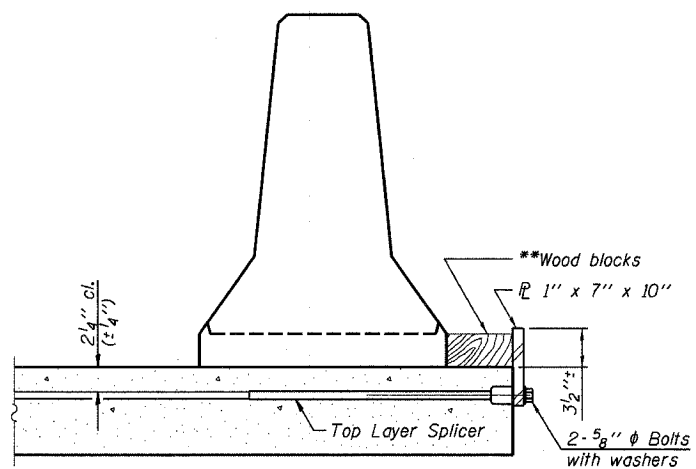
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



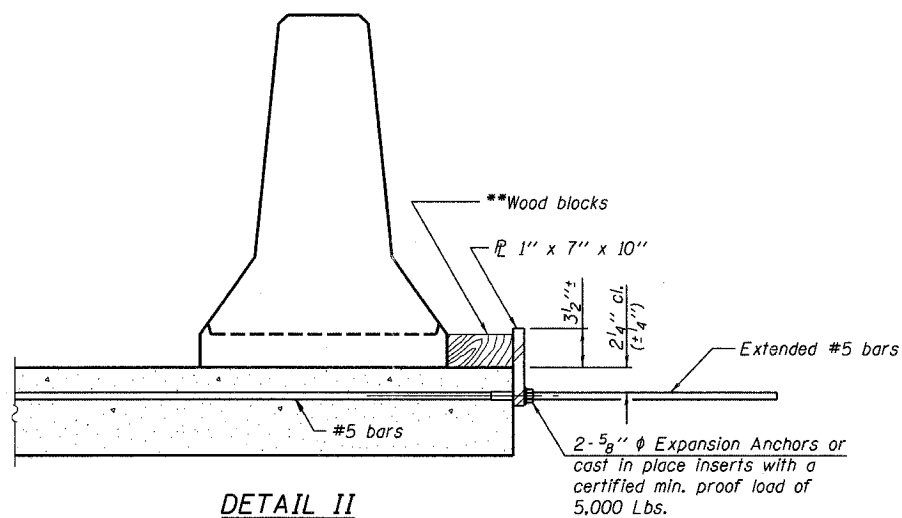
SECTIONS THRU SLAB

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

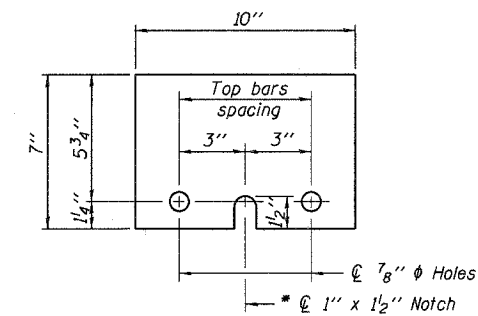


DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER \bar{P} 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

DESIGNED	-
CHECKED	-
DRAWN	EF
CHECKED	DWH

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

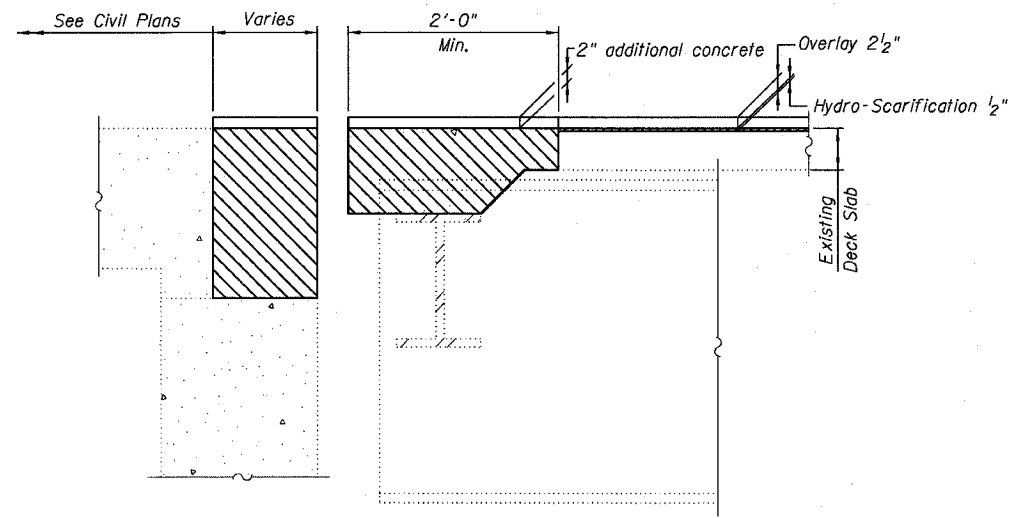
R-27

11-1-06

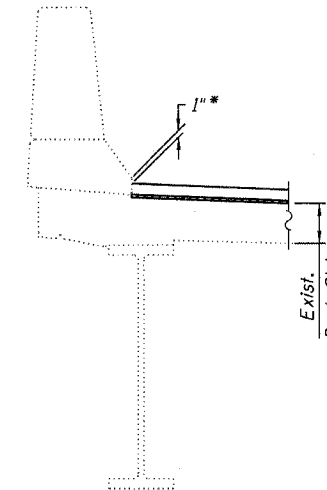
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-94/ F.A.P. 346	2003-071/ RS	COOK	91	91
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 62636



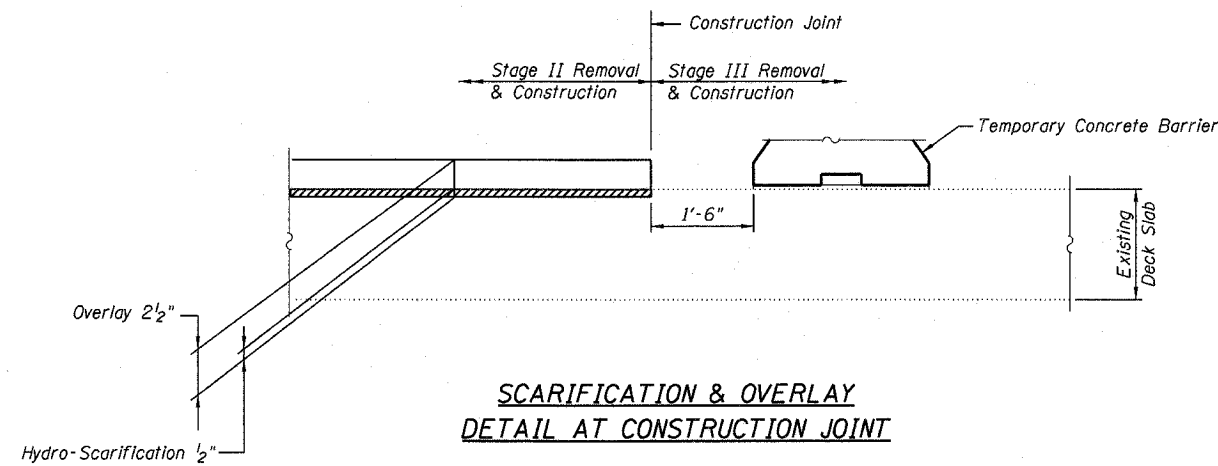
SCARIFICATION & OVERLAY DETAIL AT ABUTMENT



* Contractor shall increase hydro-scarification thickness or reduce overlay thickness as directed by the Engineer to ensure that this dimension is not less than 0".

SCARIFICATION & OVERLAY
DETAIL AT PARAPET

(Applies only to areas outside
the joint removal area.)





SCARIFICATION & OVERLAY
DETAIL AT CONSTRUCTION JOINT

NOTE

If additional hydro-scarification is required to maintain the dimension shown in the Scarification & Overlay Detail at Parapet, it shall be included in the cost for Bridge Deck Hydro-Scarification 1/2".

SCARIFICATION AND OVERLAY
DETAILS
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER SKOKIE RIVER
COOK COUNTY
STATION 394+08.55
STRUCTURE NO. 016-0102

LEGEND

-  Hydro-Scarification
-  Concrete Removal

DESIGNED -	JSD
CHECKED -	DWH
DRAWN -	JSD
CHECKED -	DWH

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