

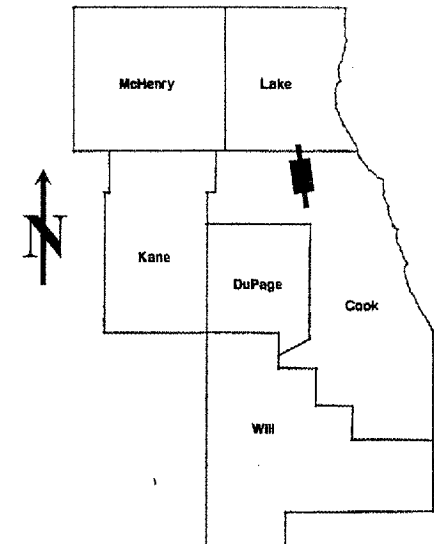
DISTRICT ONE - DESIGN - PLAN PREPARATION ENGINEER:
KEN ENG / ROBERT BORO (847) 705-4178

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530CRC-PP	COOK	16	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT ONE

CONTRACT NO. 62962

D-91-215-05



FOR INDEX OF SHEETS SEE SHEET 2

IMPROVEMENT LOCATED IN THE
VILLAGE OF ARLINGTON HEIGHTS

FAP 342: IL 53 EXTENTION
IL RTE. 68(DUNDEE RD.) TO LAKE-COOK RD
SECTION: 530CRC-PP
CRC PAVEMENT PATCHING
COOK COUNTY
C-91-215-05

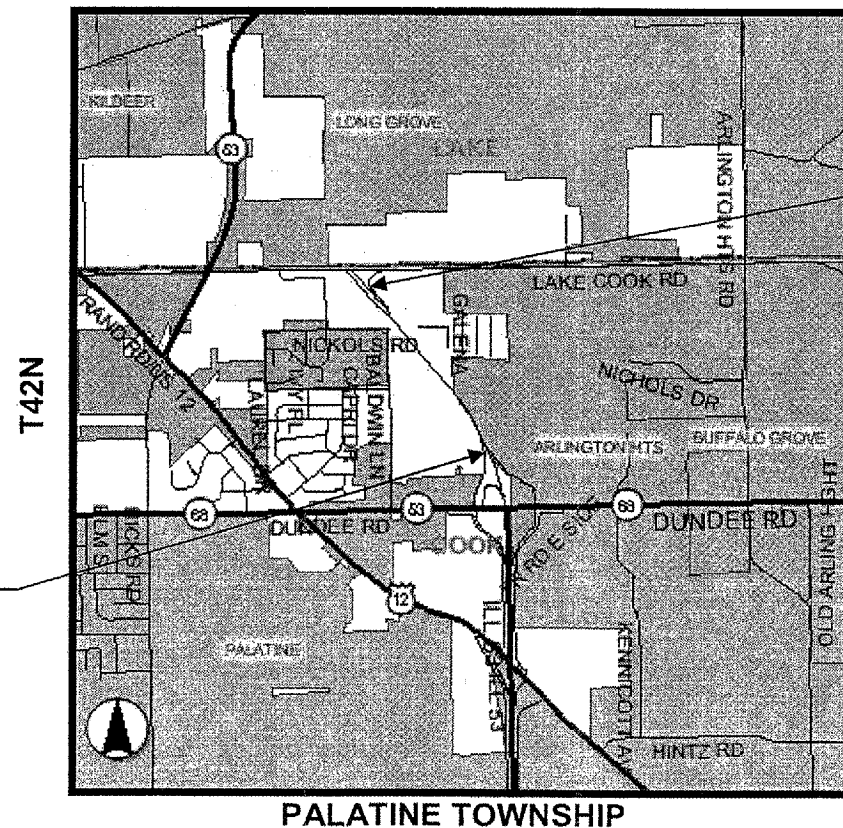
R10E

LOCATION OF IMPROVEMENT INDICATED THUS:

TRAFFIC DATA
SPEED LIMIT = 55 MPH
2003 ADT = 71,300

IMPROVEMENT
BEGINS:
STA. 443+00

IMPROVEMENT
ENDS:
STA. 492+00



PALATINE TOWNSHIP

CONTRACT NO. 62962

GROSS LENGTH OF IMPROVEMENT = 4,900 FT = 0.93 MILES
NET LENGTH OF IMPROVEMENT = 4,900 FT = 0.93 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED: OCT. 27 2005
Diane M. O'Keefe/CN
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 9, 2005
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT
December 9, 2005
Eric Hain
DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530CRC-PP	COOK	16	2

CONTRACT 62962

INDEX OF SHEETS

STATE STANDARDS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	TYPICAL SECTION
6 - 7	PAVEMENT PATCHING SCHEDULE
8 - 10	TRAFFIC CONTROL PLAN
11	PAVEMENT JOINT DETAIL
12	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
13	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
14 - 15	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
16	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES & PARTIAL RAMP CLOSURES

442201 - 01	CLASS D PATCHES
701400 - 02	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401 - 03	LANE CLOSURE, FREEWAY / EXPRESSWAY
701411 - 03	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH
701446	TWO LANE CLOSURE, FREEWAY / EXPRESSWAY
702001 - 06	TRAFFIC CONTROL DEVICES

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INDEX OF SHEETS
STATE STANDARDS**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530CRC-PP	COOK	16	3

CONTRACT 62962

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

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

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATION OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKING.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

THE ENGINEER SHALL OBTAIN APPROVAL FROM THE DISTRICT ONE BUREAU CHIEF OF MAINTENANCE FOR ANY PROPOSED REVISIONS IN THE SCHEDULED PAVEMENT PATCHING LOCATIONS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

NO PATCHING WORKS SHALL BE DONE AT LOCATIONS WHERE INDUCTIVE LOOP DETECTORS ARE LOCATED. ALL DAMAGE TO EXISTING LOOPS OR LUG SYSTEM SHOWN ON SHEET 9 SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING LANE LINE PAVEMENT MARKINGS REMOVED BY PATCHING OPERATIONS SHALL BE REPLACED IN WHOLE EVEN IF OPERATION REMOVES ONLY PART OF THE LANE LINE PAVEMENT MARKING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

MIXTURE REQUIREMENTS

CLASS D PATCH	MIXTURE TYPE	AC/PG TYPE	MAX RAP %	AIR VOIDS (%)
TOP 2"	POLYMERIZED BITUMINOUS SURFACE COURSE, SUPERPAVE, IL-19, N90, 2"	SBS/SBR PG 70-22	0	4% @ 90 GYR
BOTTOM 7-1/2"	POLYMERIZED BITUMINOUS BINDER COURSE, SUPERPAVE, IL-19, N90, 7-1/2"	SBS/SBR PG 70-22	0	4% @ 90 GYR

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530CRC-PP	COOK	16	4

CONTRACT 62962

SUMMARY OF QUANTITIES

*100% STATE
URBAN*

			CONSTRUCTION TYPE CODE 1000
CODE NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY
X4420092	CLASS D PATCHES, TYPE II, 9 ½"	SQ YD	235.3
X4420093	CLASS D PATCHES, TYPE III, 9 ½"	SQ YD	317.3
X4420099	CLASS D PATCHES, TYPE IV , 9 ½"	SQ YD	1913.3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1
* 78008210	POLYUREA PAVEMENT MARKING TYPE I – 4"	FOOT	1200
* 78008220	POLYUREA PAVEMENT MARKING TYPE I – 5"	FOOT	1040
* 78008240	POLYUREA PAVEMENT MARKING TYPE I – 8"	FOOT	420
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	120

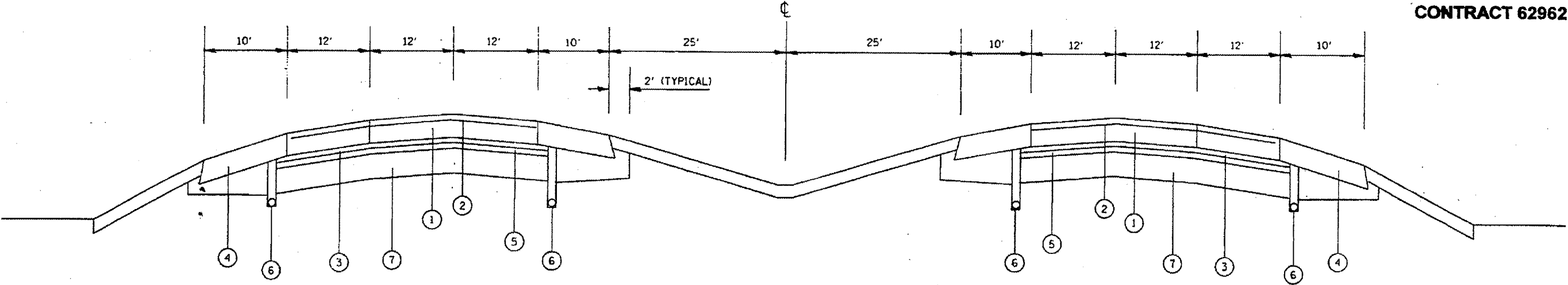
** SPECIALTY ITEMS*

ILLINOIS DEPARTMENT OF TRANSPORTATION

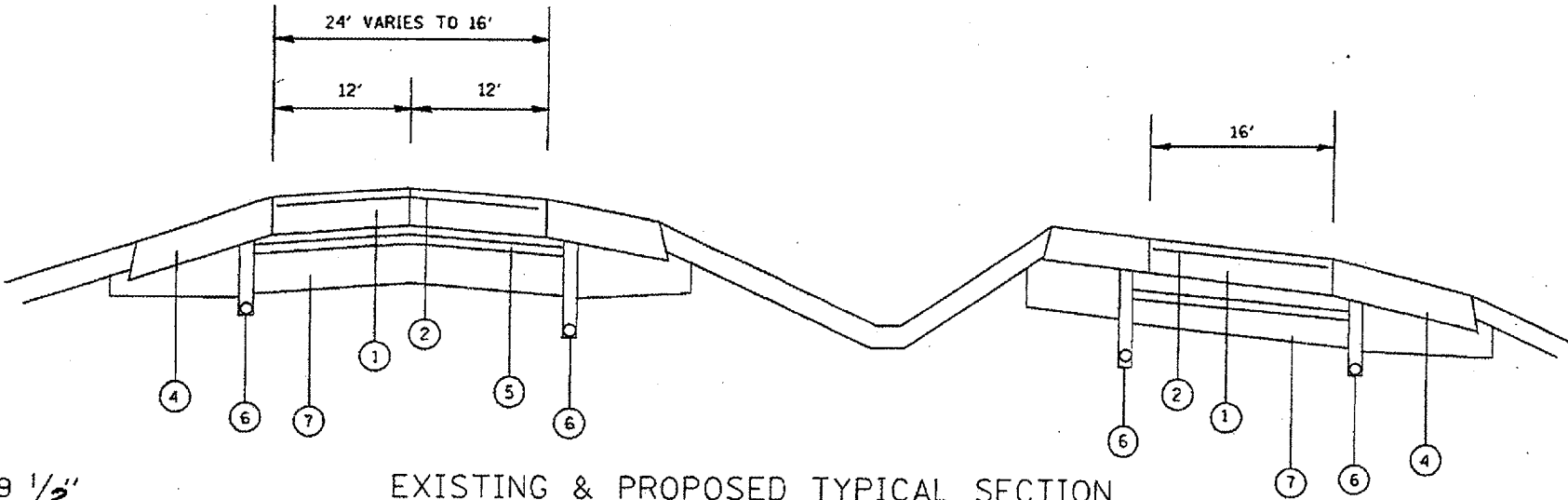
IL RTE. 53 EXTENSION
SUMMARY OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530CRC-PP	COOK	16	5

CONTRACT 62962



EXISTING & PROPOSED TYPICAL SECTION
IL RTE 53 EXTENSION



EXISTING & PROPOSED TYPICAL SECTION
IL RTE 53 EXTENSION
@ LAKE-COOK ROAD EXIT

LEGEND

1. CONTINUOUSLY REINFORCED P.C.CONCRETE PAVEMENT, 9 1/2"
2. PAVEMENT REINFORCEMENT
3. OPEN GRADED BITUMINOUS AGGREGATE MIXTURE
4. BITUMINOUS SHOULDER
5. SUB-BASE GRANULAR MATERIAL
6. PIPE UNDERDRAIN
7. POROUS GRANULAR EMBANKMENT

ILLINOIS DEPARTMENT OF
TRANSPORTATION

IL RTE 53 EXTENSION
TYPICAL SECTION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530CRC-PP	COOK	16	6

CONTRACT 62962

NORTHBOUND IL RTE. 53 EXTENSION

PATCH LOCATION NUMBER	STATION	LANE	Northbound				
			SIZE (L X W)			AREA (SQ. YD.)	TYPE
1	445+17	3	265	x	12	353.3	IV
2	444+50	1	100	x	12	133.3	IV
3	444+50	2	100	x	12	133.3	IV
4				x			
5	447+67	1	50	x	6	33.3	IV
6	448+50	1	40	x	12	53.3	IV
7				x			
8	453+40	2	40	x	12	53.3	IV
9	453+40	3	40	x	12	53.3	IV
10	454+40	3	30	x	12	40.0	IV
11	458+23	3	15	x	12	20.0	III
12	462+79	2	8	x	12	10.7	II
12A	462+79	3	8	x	12	10.7	II
13	463+50	2	20	x	12	26.7	IV
14	466+61	1	12	x	12	16.0	III
15	466+67	2	42	x	12	56.0	IV
16	469+95	1	20	x	12	26.7	IV
17	469+95	2	20	x	12	26.7	IV
18	471+55	2	20	x	12	26.7	IV
19	471+53	1	6	x	12	8.0	II
20	471+78	1	6	x	12	8.0	II
21	474+77	2	15	x	12	20.0	III
22	475+54	1	8	x	12	10.7	II
23	475+96	2	12	x	12	16.0	III
24	476+47	2	25	x	12	33.3	IV
25	477+17	2	15	x	6	10.0	II

PATCH LOCATION NUMBER	STATION	LANE	Northbound				
			SIZE (L X W)		AREA (SQ. YD.)	TYPE	
26	478+00	2	30	x	12		40.0
27	479+25	2	40	x	6	26.7	IV
28	479+37	1	15	x	12	20.0	III
29	479+79	2	8	x	12	10.7	II
30	480+97	1	6	x	12	8.0	II
31	481+52	2	15	x	12	20.0	III
32	482+02	1	8	x	12	10.7	II
33	482+62	1	35	x	12	46.7	IV
34	482+62	2	35	x	12	46.7	IV
35	483+74	1	8	x	12	10.7	II
36	486+13	3/Ramp*	12	x	12	16	III
37	486+09	2	8	x	12	10.7	II
38	486+58	1	20	x	12	26.7	IV
39	486+58	2	20	x	12	26.7	IV
40	486+85	1	10	x	12	13.3	II
41	487+60	1	30	x	12	40.0	IV
42	489+45	1	10	x	12	13.3	II
43	489+45	2	10	x	12	13.3	II
44	489+76	1	12	x	12	16.0	III
45	489+76	2	12	x	12	16.0	III
46	491+59	1/Ramp*	12	x	12	16.0	II
47	491+60	2/Ramp*	12	x	12	16.0	II

* SEE JOINT DETAILS (SHEET #11). THE COST OF PAVEMENT RELIEF JOINT SHALL BE INCIDENTAL TO CLASS A PATCHING.

- CENTER LINE OF IL RTE. 68 (DUNDEE) : STA. 435+44
- ALL STATIONINGS ARE CENTER OF EACH PATCHING LOCATIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

**IL ROUTE 53 EXTENSION
PAVEMENT PATCHING SCHEDULE
1 OF 2**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530CRC-PP	COOK	16	7

CONTRACT 62962

SOUTHBOUND IL RTE. 53 EXTENSION

PATCH LOCATION NUMBER	LANE	STATION	Southbound			TYPE
			SIZE (L X W)	AREA (SQ. YD.)		
1	2	489+25	8 x 12	10.7		II
2	2	487+30	6 x 12	8.0		II
3	2	484+96	14 x 12	18.7		III
4	2	482+53	26 x 12	34.7		IV
5	2	481+62	40 x 12	53.3		IV
6	2	480+98	12 x 12	16.0		III
7	2	480+31	62 x 12	82.7		IV
8	2	479+64	14 x 12	18.7		III
9	2	479+31	14 x 12	18.7		III
10	2	478+40	40 x 12	53.3		IV
11	2	477+36	132 x 12	176.0		IV
12	2	475+95	32 x 12	42.7		IV
13	2	474+95	10 x 12	13.3		II
14	2	473+67	14 x 12	18.7		III
15	2	473+26	10 x 12	13.3		II
16	2	472+48	106 x 12	141.3		IV
17	2	471+31	14 x 12	18.7		III
18	2	469+80	10 x 12	13.3		II
19	2	468+53	6 x 12	8.0		II
20	2	468+04	20 x 12	26.7		IV
21	2	467+43	6 x 12	8.0		II
22	2	464+79	9 x 12	12.0		II
23	2	462+93	12 x 12	16.0		III

SCHEDULE TOTALS

CLASS D PATCHES, TYPE II	235 SQ YD
CLASS D PATCHES, TYPE III	317 SQ YD
CLASS D PATCHES, TYPE IV	1913 SQ YD
SAW CUTS	2712 FT

ILLINOIS DEPARTMENT OF TRANSPORTATION

**IL ROUTE 53 EXTENSION
PAVEMENT PATCHING SCHEDULE
2 OF 2**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530 CRC-PP	COOK	16	8

CONTRACT 62962

STAGING NOTES

- SB STAGE I

CLOSE EB LAKE-COOK RD TO SB IL 53 EXT ENTRANCE RAMP & CLOSE RIGHT LANE OF WB LAKE-COOK RD TO SB IL 53 EXT RAMP (SEE NOTE 1 ON SHEET 10) BEFORE SB PATCH #1 IN ORDER TO PERFORM SB PATCHES (#1 THRU #9). SMALL DETOUR SIGNS SHALL BE SET UP AHEAD OF HICKS ROAD TO FOLLOW ACTUAL IL 53. RAMP SHALL BE OPENED AFTER PATCHES ARE POURED USING TRAFFIC CONTROL DETAILS SHOWN ON SHEET 10.
- SB STAGE II

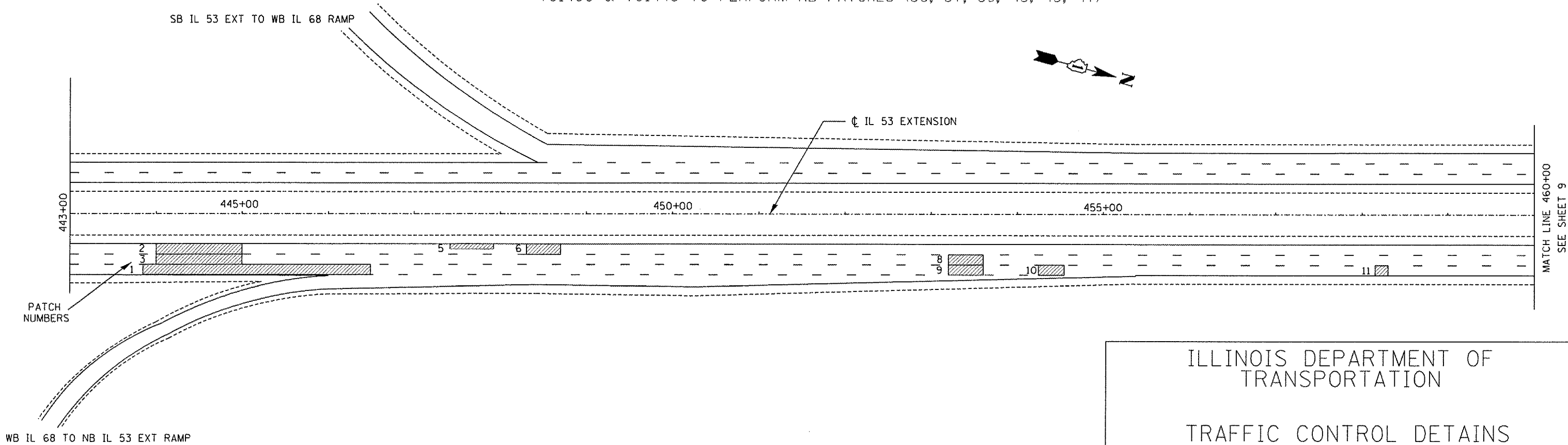
CLOSE SB IL 53 EXT LANES #2 & #3 AS SHOWN ON THE STAGING PLAN & PERFORM SB PATCHES (#10 THRU #23) (SEE DETAILS SHEET 10)
- NB STAGE I

CLOSE NB IL 53 EXT LANES #1 & #2 PER STATE STANDARDS 701400 & 701446 IN ORDER TO PATCH NB LANES (2, 3, 5, 6, 8, & 12 THRU 20)
- NB STAGE II

CLOSE WB IL 68 TO NB IL 53 EXTENSION ENTRANCE RAMP & CLOSE LANE #3 PER STANDARDS 701400 & 701401 PROIR TO NB PATCH #1 IN ORDER TO PATCH NB LANES (1, 9, 10, 11, AND 12A)
- NB STAGE III

CLOSE NB IL 53 EXT LANES #1 & #2 PROIR TO PATCH #21 \$ UP TO PATCH #35 PER STATE STANDARDS 701400 & 710446 & PERFORM NB PATCHES (21 THRU 34) AND CLOSE LANE 1 TO PERFORM NB PATCHES (35, 38, 40, 41, 42, 44, 46)
- NB STAGE IV

CLOSE IL 53 EXT NB EXIT RAMP TO LAKE-COOK ROAD EB & LANE 2 #3 PER STANDARDS 701400 & 701446 TO PERFORM NB PATCHES (36, 37, 39, 43, 45, 47)

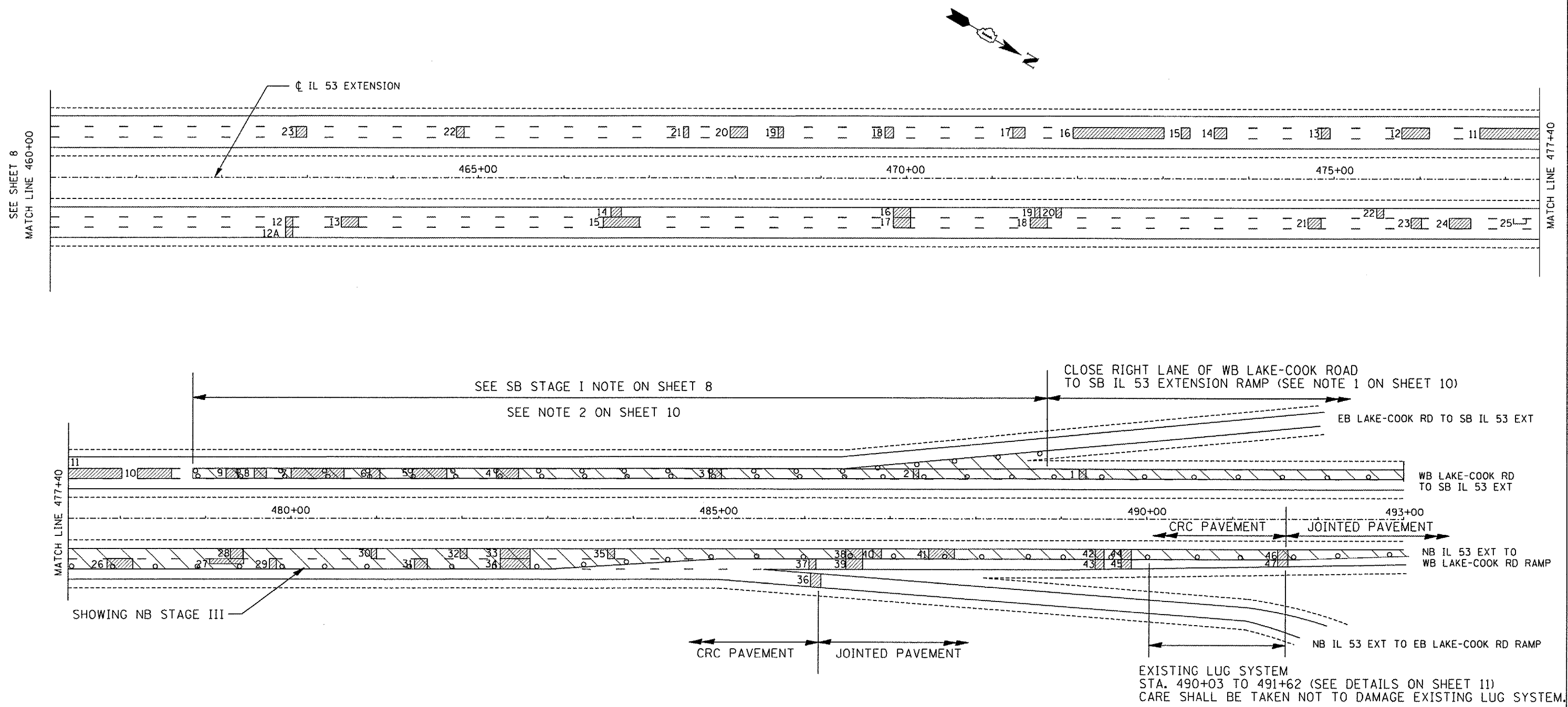


ILLINOIS DEPARTMENT OF
TRANSPORTATION

TRAFFIC CONTROL DETAINS
IL ROUTE 53 EXTENSION
1 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530 CRC-PP	COOK	16	9

CONTRACT 62962



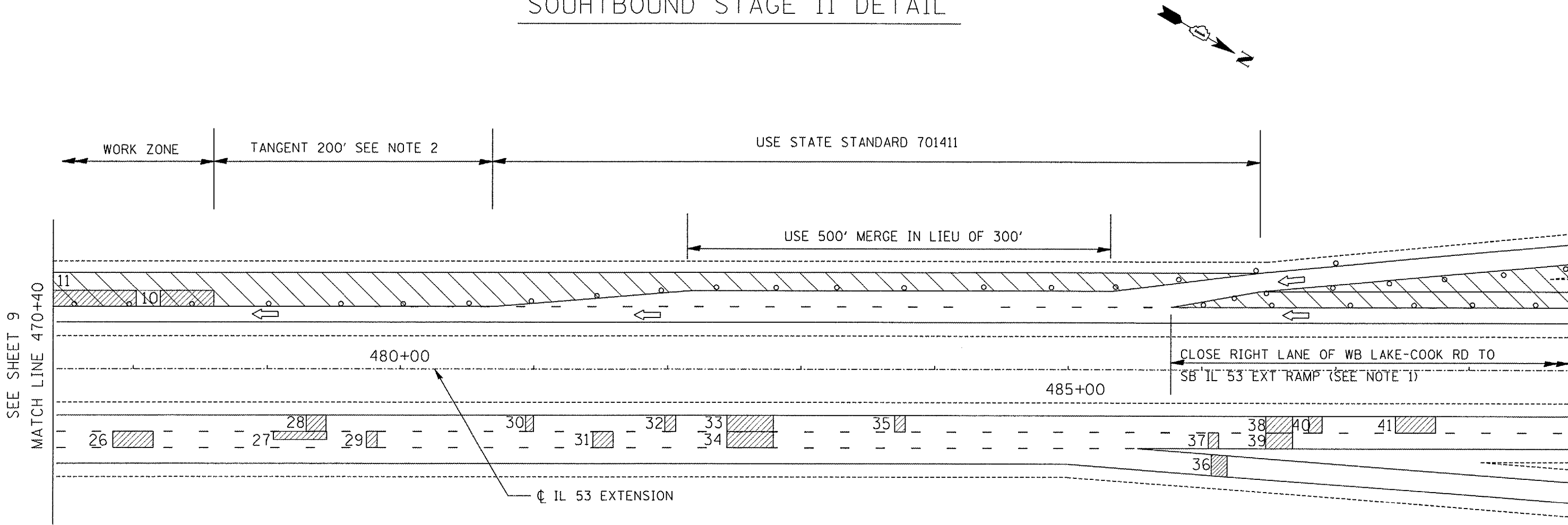
ILLINOIS DEPARTMENT OF
TRANSPORTATION

TRAFFIC CONTROL DETAILS
IL ROUTE 53 EXTENSION
2 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 342	530 CRC-PP	COOK	16	10

CONTRACT 62962

SOUTHBOUND STAGE II DETAIL

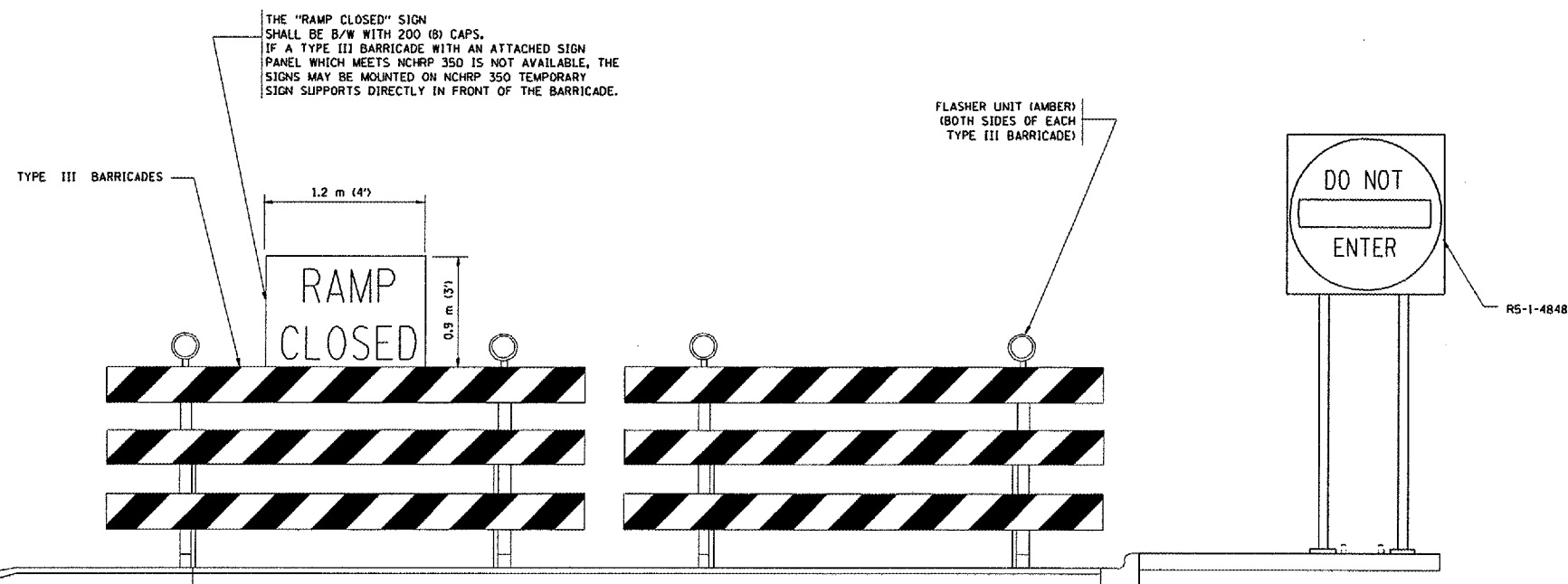
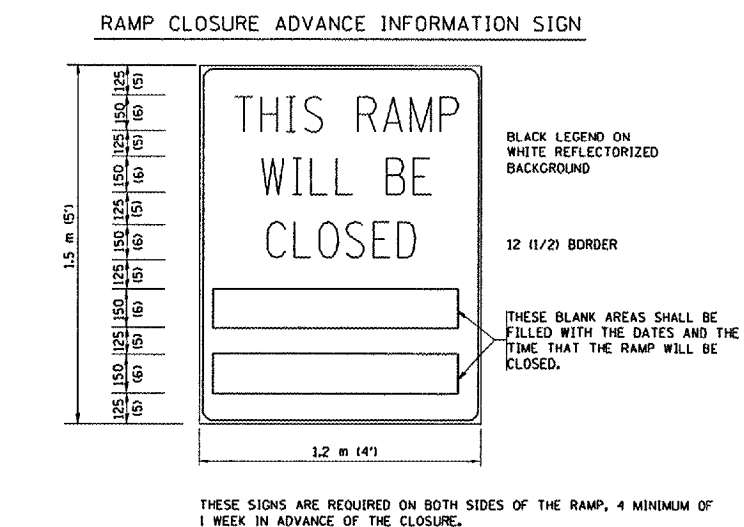
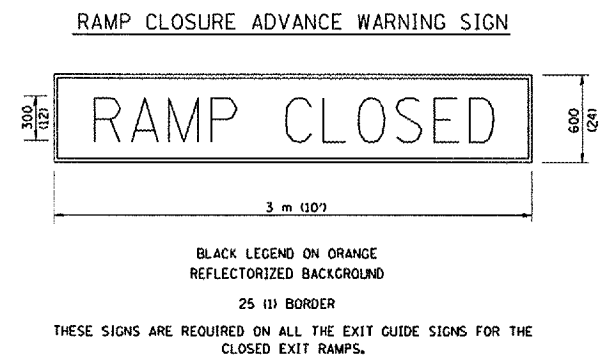


NOTE 1: USE DIRECTION INDICATOR BARRICADES WITH
STEADY BURNING MONODIRECTIONAL LIGHTS @ 50' CTS

NOTE 2: USE TYPE II BARRICADES, DRUMS OR VERTICAL
BARRICADES WITH STEADY BURNING MONODIRECTIONAL
LIGHTS @ 50' CTS

ILLINOIS DEPARTMENT OF
TRANSPORTATION

TRAFFIC CONTROL DETAILS
IL ROUTE 53 EXTENSION
3 OF 3



NOTES:

1. CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERRECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR (24) HOURS.
4. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

REVISIONS	
NAME	DATE
DWS	2-8
DWS	1/9
DWS	9/9
DWS	12/9
DWS/JAF	12/0
Revise devices to meet NCHRP 350	4/0

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

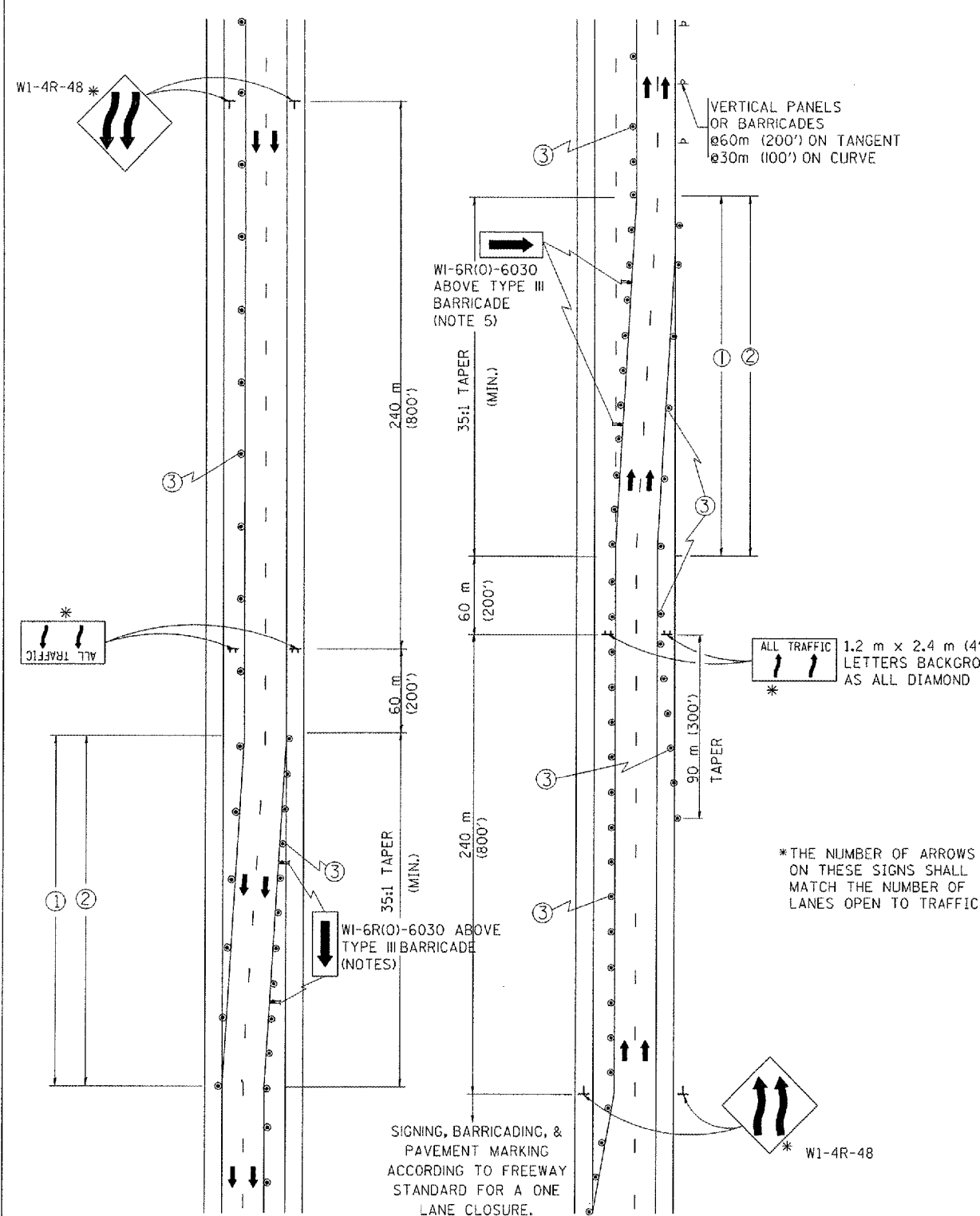
ILLINOIS DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS

SCALE: NONE
DATE 05/06/2003

DRAWN BY
CHECKED BY
TC-8

MULTI-LANE WEAVE



- ① 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.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 90 m (300') 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 3 M-9 M (10'-30') SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 15 m (50') C-C SPACING IN TAPERS AND 30 m (100') C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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.

	DIRECTION OF TRAFFIC
	WORK AREA
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

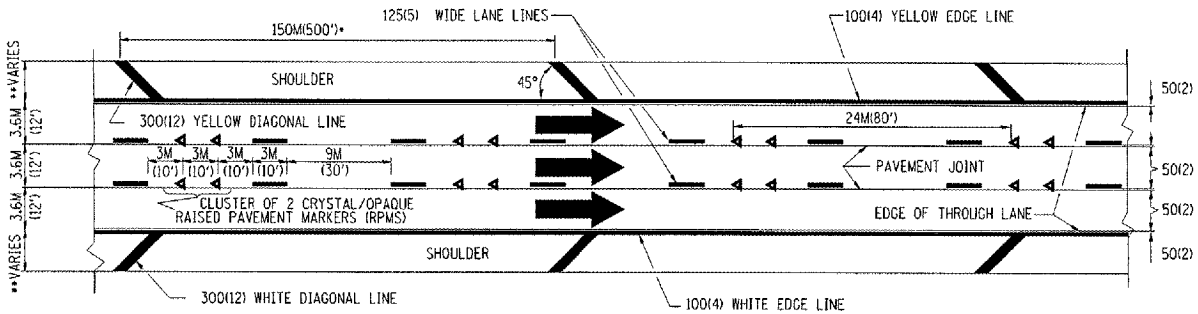
REVISIONS	
NAME	DATE
DWS	2/8
DWS	1/9
DWS	12/27
DWS	11/9
JAF	4/03

DRAWN BY R.H.
CHECKED BY
TC-9

REVISION DATE: 04/20/03

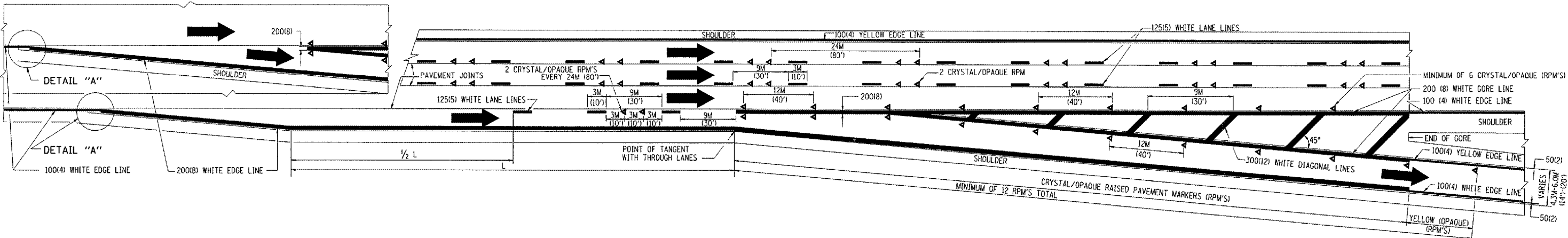
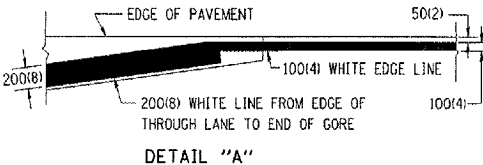
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342-5300RC-PP	COOK	16	14	
STA.	TO STA.			
FED. ROAD DIST. NO. 1	SLIPNO.	FED. AID PROJECT		

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

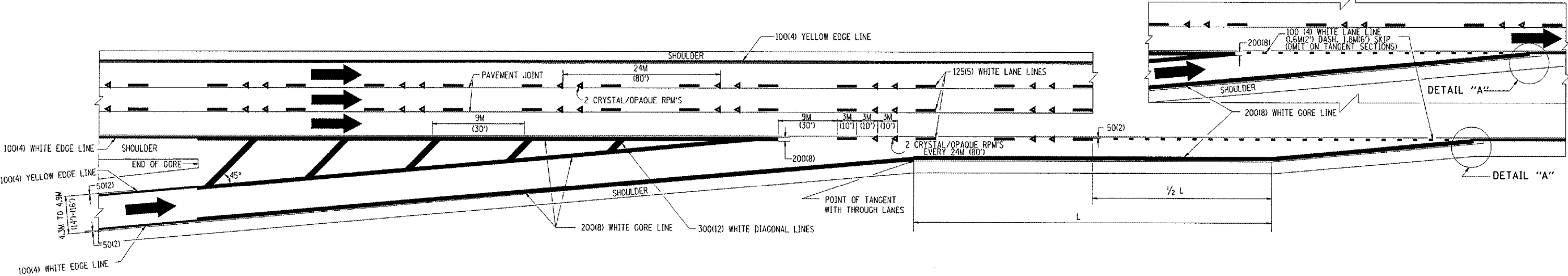


TYPICAL EDGE LINES & LANE LINES

- 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 PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES
 3. PREFORMED PLASTIC PAVEMENT MARKING LINE SHALL BE USED ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AH	3/96
DWS	7/96

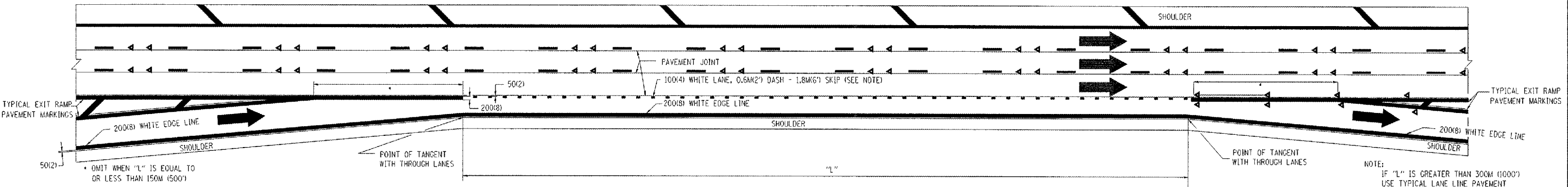
ILLINOIS DEPARTMENT OF TRANSPORTATION

**MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS**

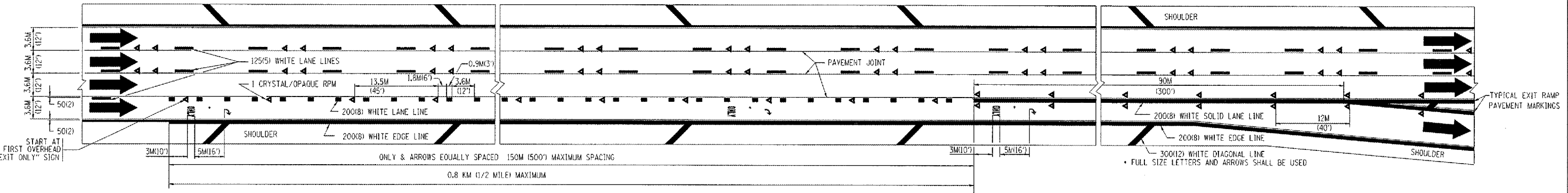
SCALE: NONE
DATE: 10/18/2002

DRAWN BY C.A.D.D.
CHECKED BY
TC12 SHEET 1 OF 2
REVISION DATE: 01/01/96

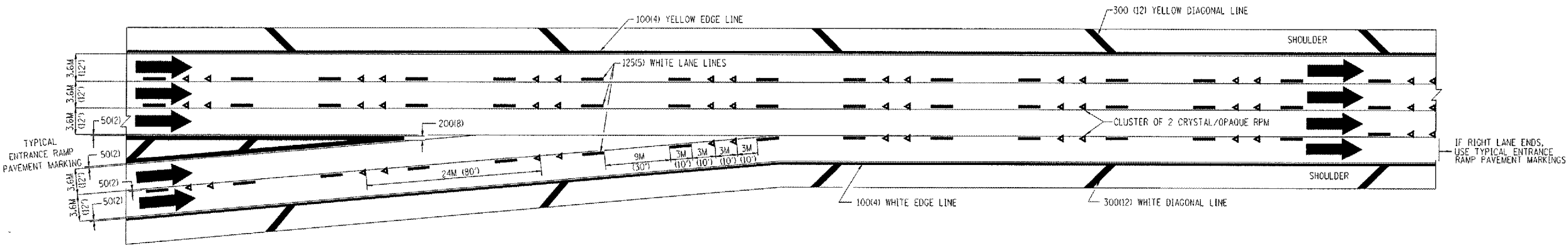
P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
242-5200RC-PP	COOK	16	15	
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

REVISIONS	DATE
NAME	
DWS	1/90
DWS	5/91

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS**

SCALE: NONE

DATE: 10/18/2002

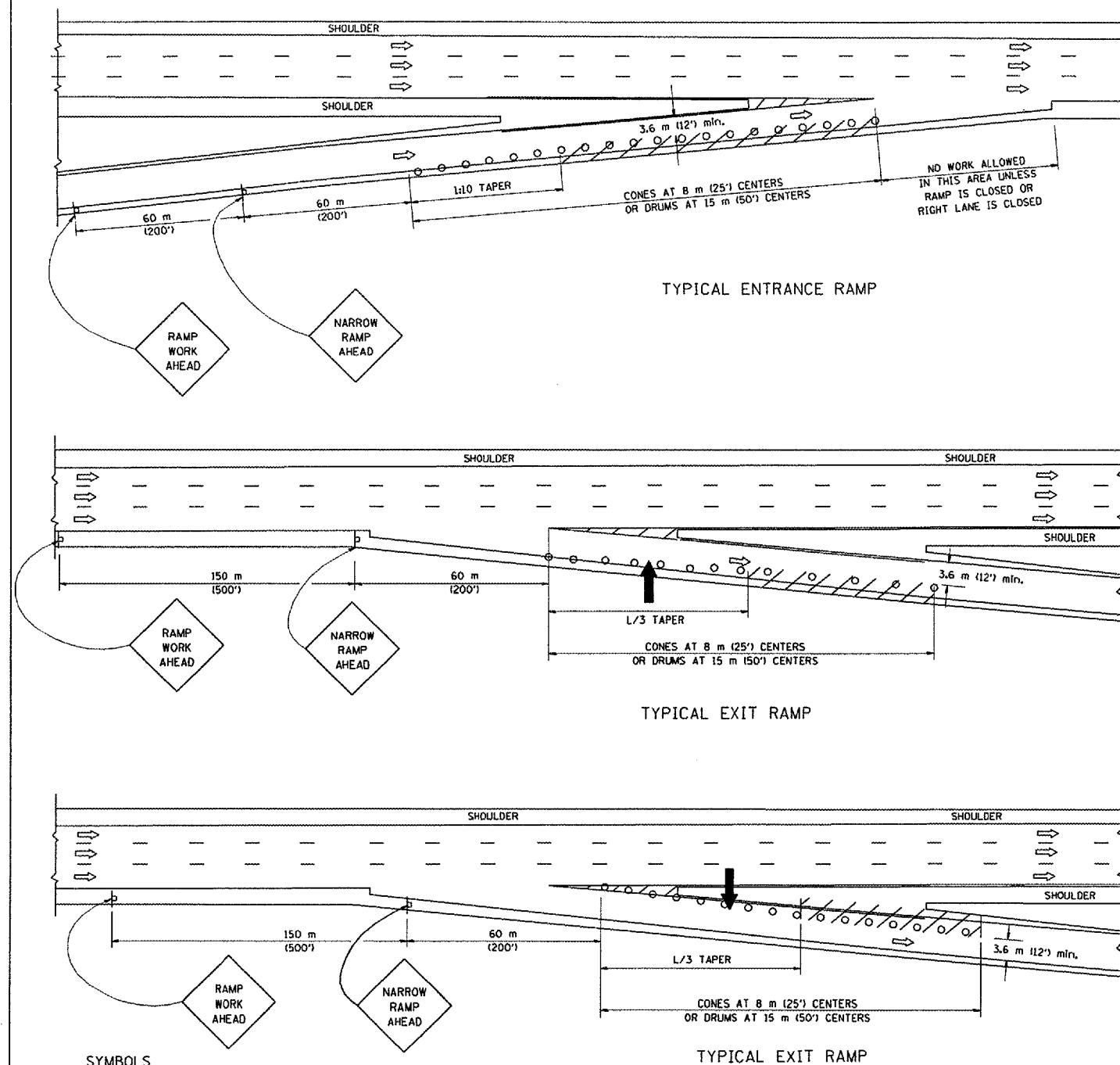
DRAWN BY C.A.D.D.

CHECKED BY

TC12 SHEET 2 OF 2

REVISION DATE: 01/01/96

PARTIAL RAMP CLOSURE DETAILS



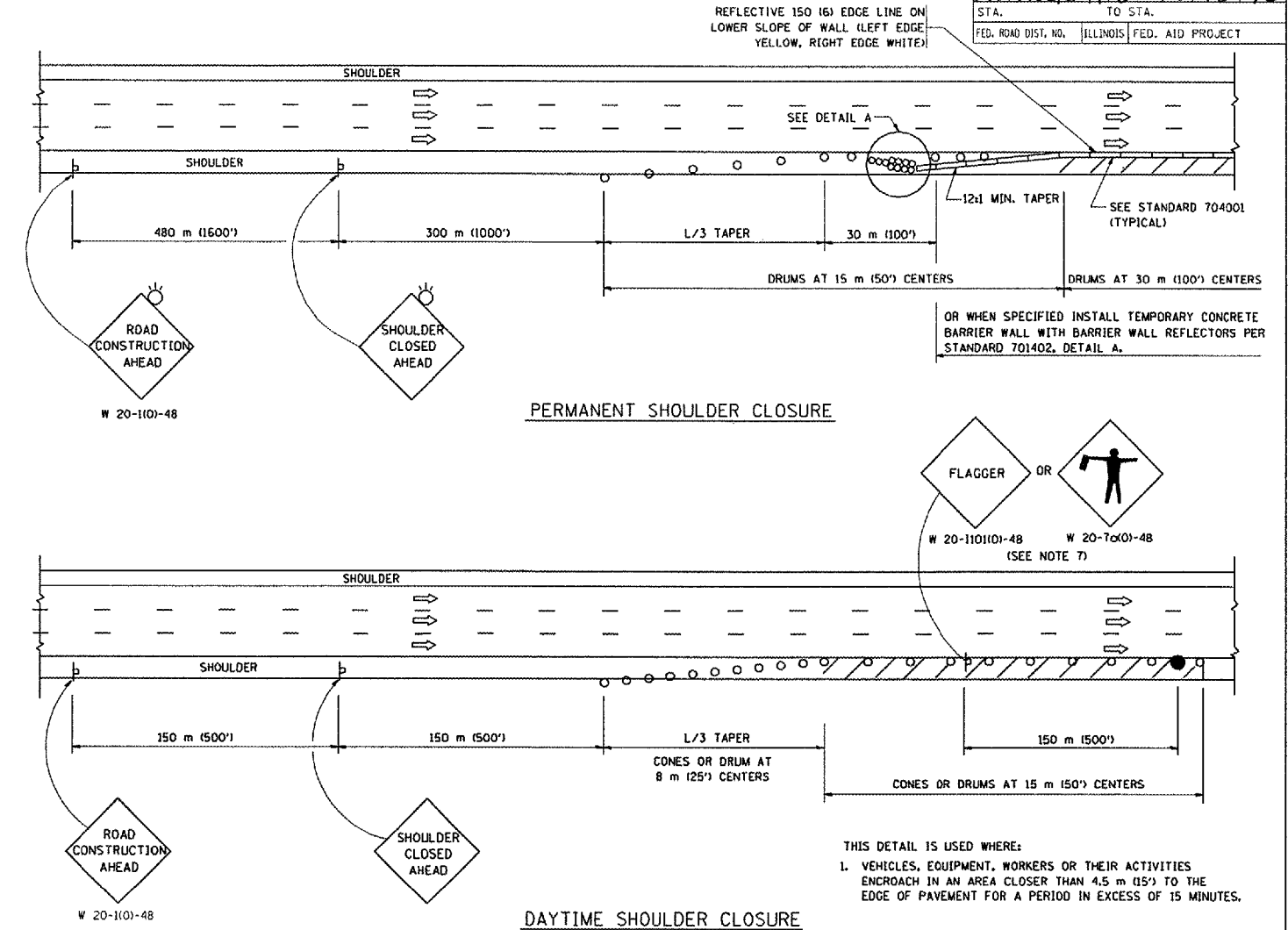
SYMBOLS

- ↑ ARROWBOARD
- ▨ WORK AREA
- ├ SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- ⊙ DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

GENERAL NOTES

- THE "L" DISTANCE EQUALS:
SPEED LIMIT FORMULAS
80 km/h (45 mph) METRIC ENGLISH
OR GREATER: $L = 0.65(W/S)$ $L = (W/S)$
W = WIDTH OF OFFSET IN METERS (FEET)
S = NORMAL POSTED SPEED KM/H (MPH)
- 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



DAYTIME SHOULDER CLOSURE

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

SCALE: NONE
DATE: 05/06/2003

DRAWN BY: DWS
DESIGNED BY: DWS
CHECKED BY: TC-17

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS OUTSIDE THE CLEAR ZONE 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 ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.