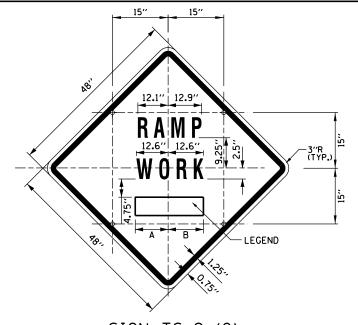
Tollway Standard Drawing Revisions

Section E	MOT		
	Standard	Modification Summary Effective 11/1/201	12
		·	
	E1	Construction Signs	
	Sheet 1	Deleted Signs TS-1	
	E2	Lane Closure Details	
	Sheet 3	Added three lane closure details.	
	E4	MOT-Reverse Curve	
		Revised Note 4	
	E7	Emergency Pull-out Area	
		Revised length of pull-out area to accommodate standard TCB lengths.	
		Revised Note 1	
			-

New Sheet



SIGN TS-2 (0)

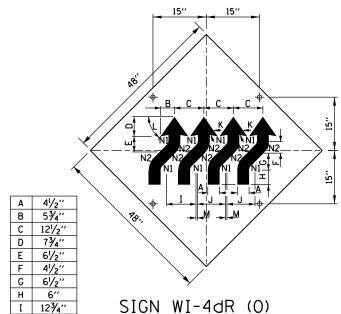
COLOR: BACKGROUND - FLUORESCENT ORANGE (O) BORDER AND SYMBOL - BLACK

SIZE: 48"×48"

LETTERING: 7" FEDERAL SERIES D

MOUNTING HOLES: 76" DIA., 4 HOLES SPACED AS SHOWN

SIGN NO.	LEGEND	Α	В
TS-2A	AHEAD	15.50"	15.50"
TS-2B	500 FT	14.25"	15.13"
TS-2C	1000 FT	14.88" <i>L</i> 2	15.75" L2
TS-2D	1500 FT	14.88" <i>L</i> 2	15.75" L2
TS-2E	1/ ₂ MILE	15.75" <i>L</i> 3	15.75" L3
TS-2F	1 MILE	13.06"	13.06"



SIGN WI-4dR (0)

COLOR: BACKGROUND, FLUORESCENT ORANGE (O) TYPE A REFLECTIVE SHEETING PER STANDARD SPECIFICATIONS (*A) BORDER AND LETTERS-BLACK

BORDER AND LETTERS - BLACK

NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE

LEGEND "#" FOR "#" FOR SIGN TS-5b

ARROW - BLACK

MOUNTING HOLES: 1/6" DIA., 4 HOLES, SPACED AS SHOWN

LETTERING: 10" FEDERAL SERIES D

SIZE: 96"x48"

12"

45°

L 55°

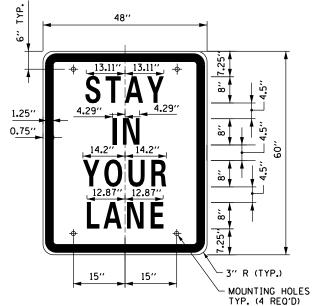
N1 2"

M 0¾"

N2 6¹/₂"

K

MOUNTING HOLES: 16" DIA., 4 HOLES SPACED AS SHOWN.



SIGN TS-3

COLOR: BACKGROUND - WHITE (REFLECTORIZED)(+A) BORDER AND LETTERS - BLACK

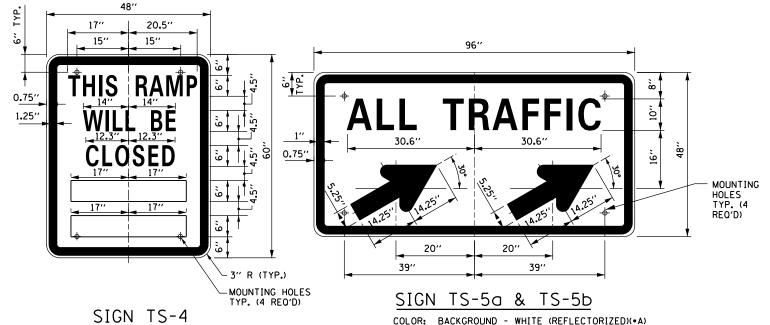
SIZE: 48"x60"

LETTERING: LEGEND - 8" FEDERAL SERIES D

MOUNTING HOLES: 76" DIA., 4 HOLES, SPACED AS SHOWN

Paul Koracs CHIEF ENGINEER

DATE 5-1-2009



SIGN TS-4

BACKGROUND - WHITE (REFLECTORIZED)(•A) BORDER AND LETTERS - BLACK

SIZE: 48"x60" LETTERING: LEGEND - 6" FEDERAL SERIES C MOUNTING HOLES: 1/6" DIA., 4 HOLES, SPACED AS SHOWN

RAMP CLOSURE ADVANCE INFORMATION SIGN

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.

NOTES:

- 1. ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE
- 2. SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- 3. SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.
 (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.

(*A) - REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.

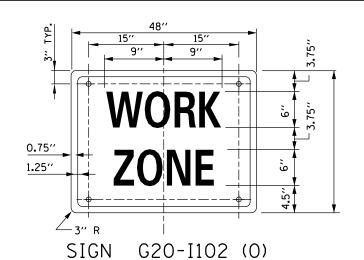
4. DIMENSIONS INDICATED THUS L ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW: SHEET 1 OF 2

L1 SPACING REDUCED BY 25%
L2 SPACING REDUCED BY 40%

- **L3 SPACING REDUCED BY 50%**

Illinois Tollway Open Roads for a Faster Future

DATE REVISIONS DELETED FLASHING ARROW BOARDS CONSTRUCTION SIGNS ADDED SIGN COLOR DESIGNATION DELETED SIGN TS-1 STANDARD E1-03



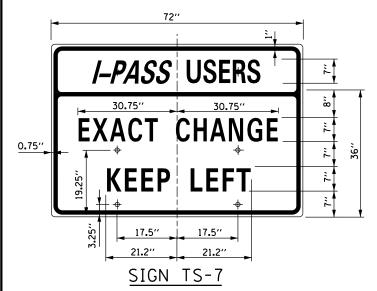
COLOR: BACKGROUND - FLUORESCENT ORANGE (0) BORDER AND LETTERS - BLACK

SIZE: 48"x24"

LETTERING: 6" FEDERAL SERIES C.

MOUNTING HOLES: $\frac{1}{16}$ "DIA., 4 HOLES SPACED AS SHOWN

ON SIGN G20-2A



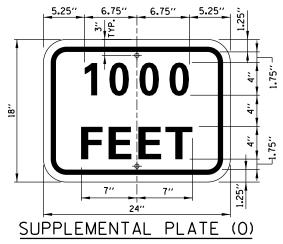
COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)

BORDER AND LETTTERS - BLACK

SIZE: 72"x36"

LETTERING: 7" FEDERAL SERIES C

MOUNTING HOLES: 16" DIA., 4 HOLES SPACED AS SHOWN

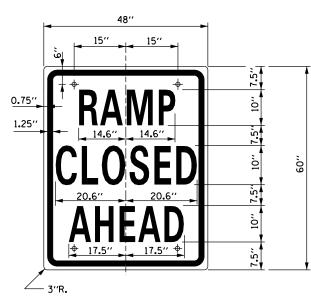


COLOR: BACKGROUND - FLUORESCENT ORANGE (O) BORDER AND LETTTERS - BLACK

SIZE: 24"x18"

LETTERING: 4" FEDERAL SERIES D

MOUNTING HOLES: 1/6" DIA.

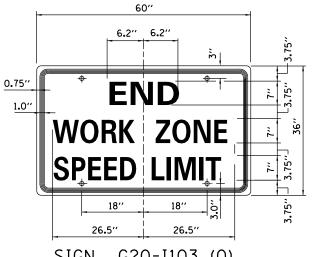


SIGN TS-9

COLOR: BACKGROUND - WHITE (REFLECTURIZED) BORDER AND LETTTERS - BLACK SIZE: 48"x60"

LETTERING: 10" FEDERAL SERIES C

MOUNTING HOLES: 1/6" DIA., 4 HOLES SPACED AS SHOWN



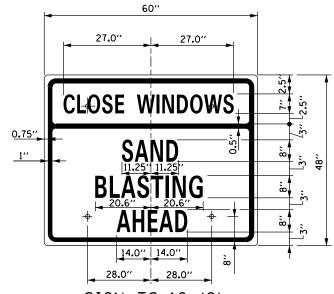
SIGN G20-I103 (0)

COLOR: BACKGROUND - FLUORESCENT ORANGE (0) BORDER AND LETTERS - BLACK

SIZE: 60"x36"

LETTERING: 6" FEDERAL SERIES C.

MOUNTING HOLES: 1/6" DIA., 4 HOLES SPACED AS SHOWN

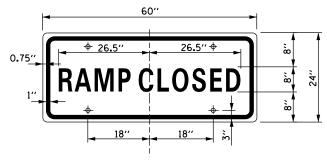


SIGN TS-10 (0)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O) BORDER AND LETTTERS - BLACK

SIZE: 60"×48"

LETTERING: 8" FEDERAL SERIES C. 7" FEDERAL SERIES B MOUNTING HOLES: 1/6" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-6

COLOR: BACKGROUND - WHITE (REFLECTURIZED) BORDER AND LETTTERS - BLACK

SIZE: 60"x24"

LETTERING: 8" FEDERAL SERIES C

MOUNTING HOLES: 16" DIA., 4 HOLES SPACED AS SHOWN

SIGN ASSEMBLY

WORK ZONE SPEED LIMIT

36"

WORK

ZONE

14.38" 14.38"

SPEED

\$XXX FINE

MINIMUM

"WORK ZONE"

ORANGE (O)

"SPEED LIMIT XX" R2-1-3648

"\$XXX FINE MINIMUM"

PAVEMENT

R2-I106 (BLACK ON WHITE) (* A)

(BLACK ON WHITE) (* A) ** 45 OR 55 MPH

W21-I115(0)-3618 (BLACK ON FLUORESCENT

GENERAL NOTES:

- 1. ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THE GUIDE EXCEPT WHERE NOTED.
- 2. SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- 3. SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS. (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS. (* A)-REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.

SHEET 2 OF 2

"BEGINS" (W21-I113), OR

"RESUMES" (W21-I114)

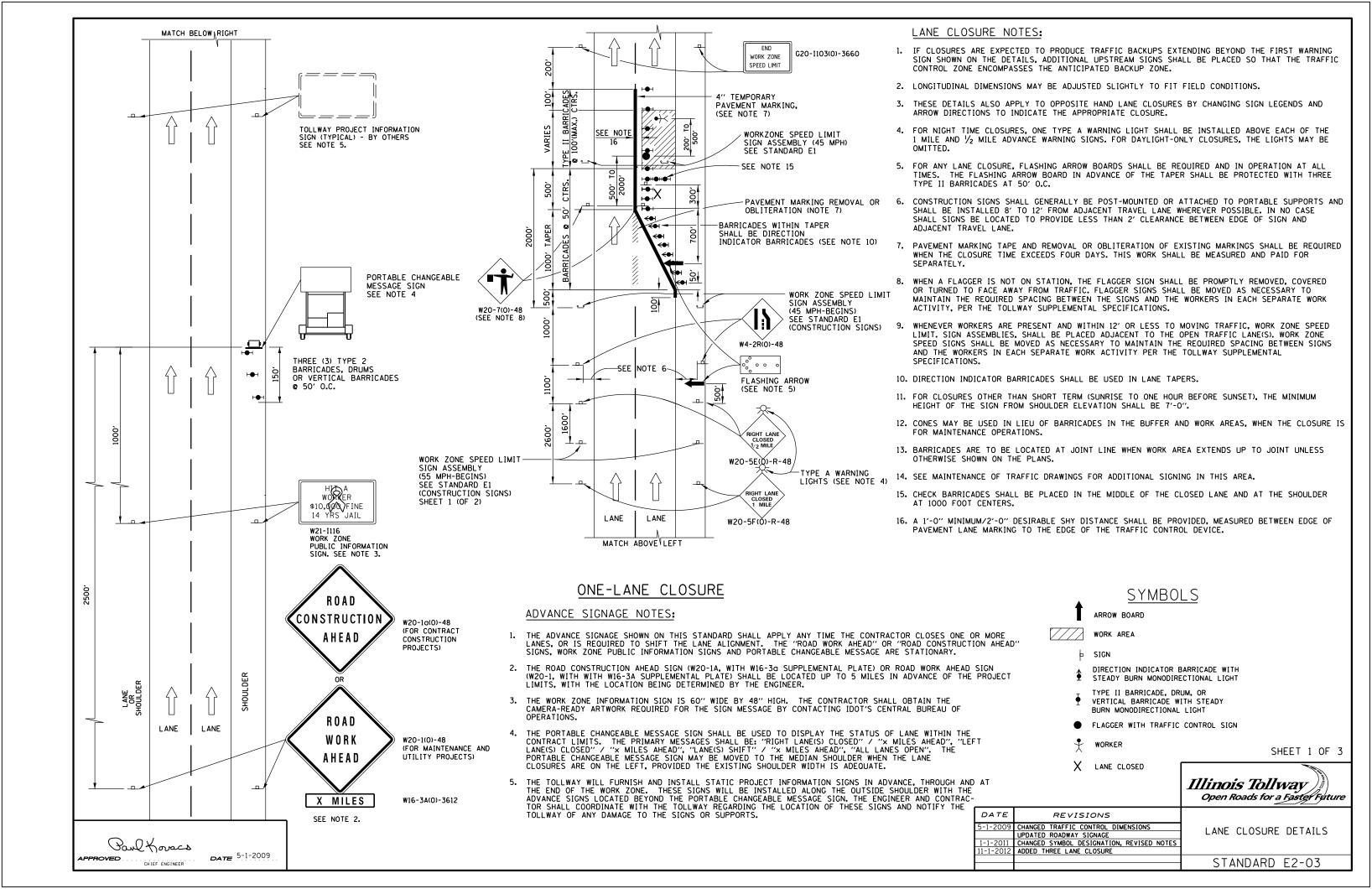
(O) 3612. (BLACK ON FLUORESCENT ORANGE (O)

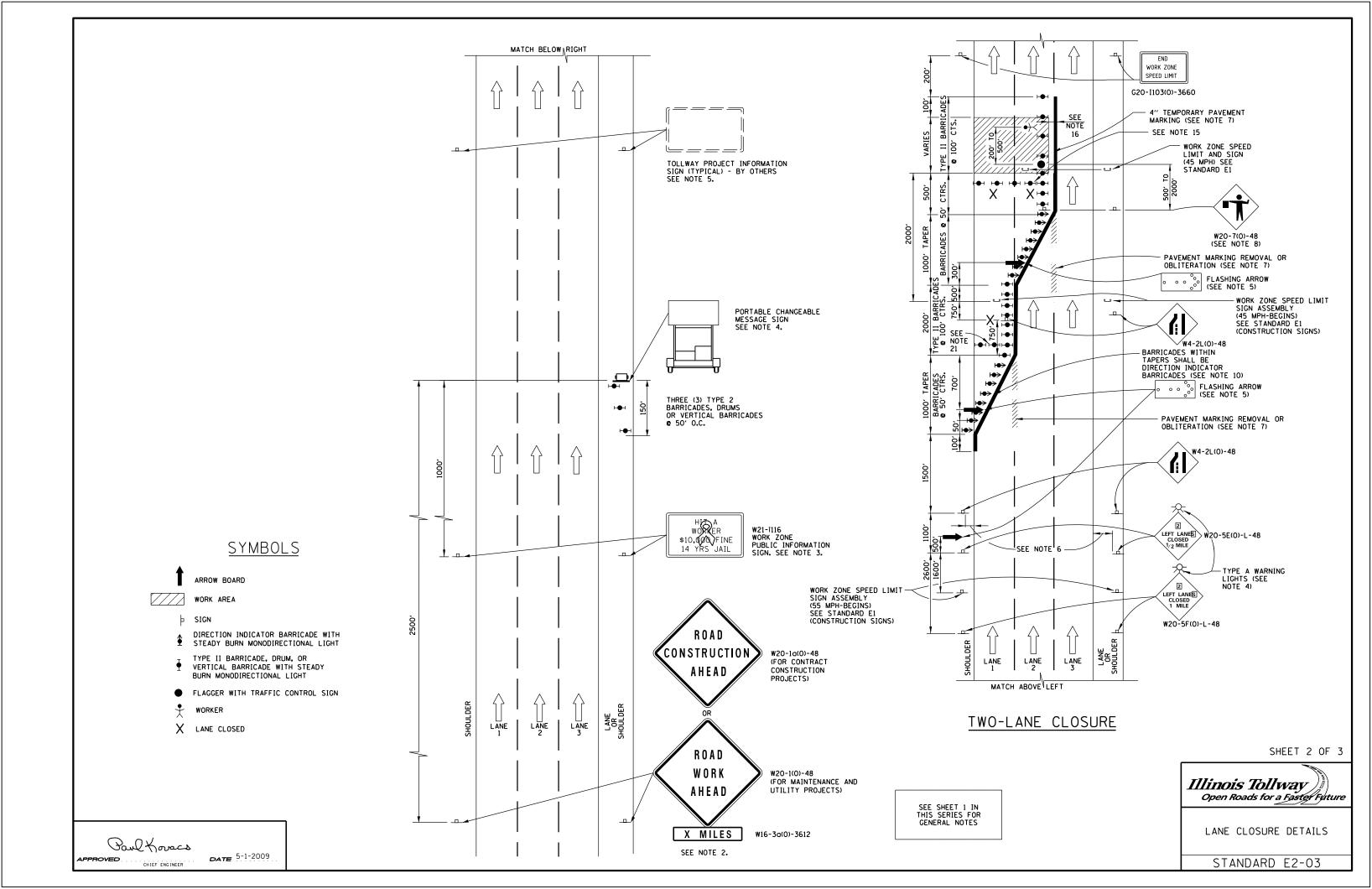


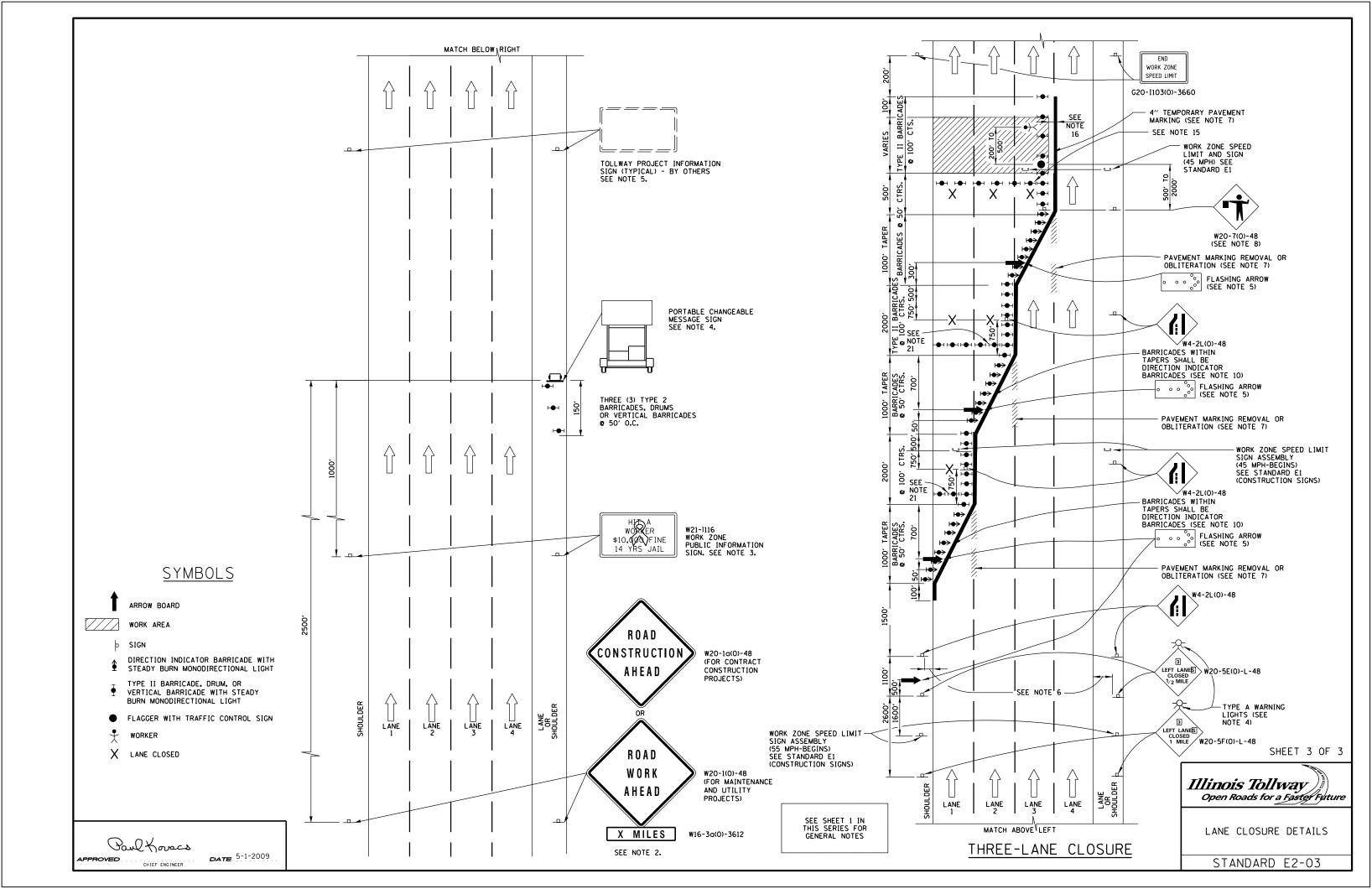
CONSTRUCTION SIGNS

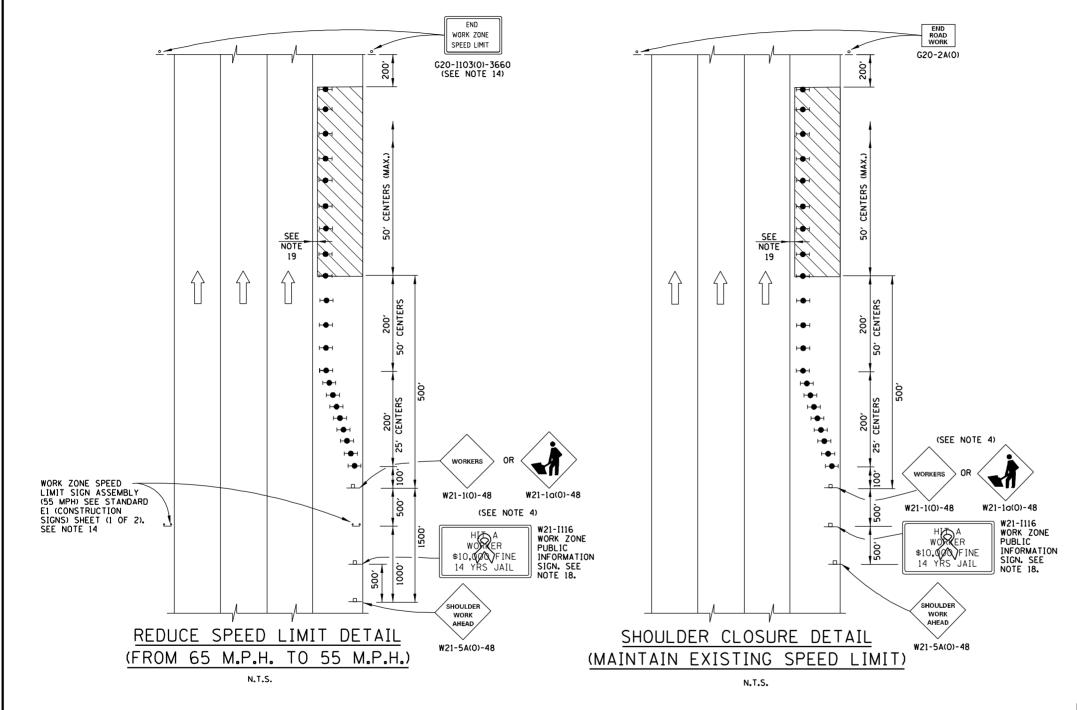
STANDARD E1-03











GENERAL NOTES:

- THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FFFT THE FDGE OF PAVEMENT.
- 2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
- 3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
- 4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE "SHOULDER WORK AHEAD" SIGN FOR THE SECOND SIGN.
- 5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS
- 6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II WITH STEADY BURNING LIGHT. TYPE C SHALL BE USED.
- 7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
- 8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY (55 MPH BEGINS) SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE, MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
- AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
- 10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER
- 11. THE SIGN ASSEMBLY SHALL NOT BE UTILIZED WHEN WORKERS ARE BEHIND A TEMPORARY (MOVABLE BARRIER) WALL.
- 12. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT OR CLOSE TO MOVING
- 13. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
- 14. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
- 15. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.
- 16. "WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
- 17. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER.
- 18. THE WORK ZONE INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
- 19. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC

SYMBOLS

WORK AREA

h SIGN

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

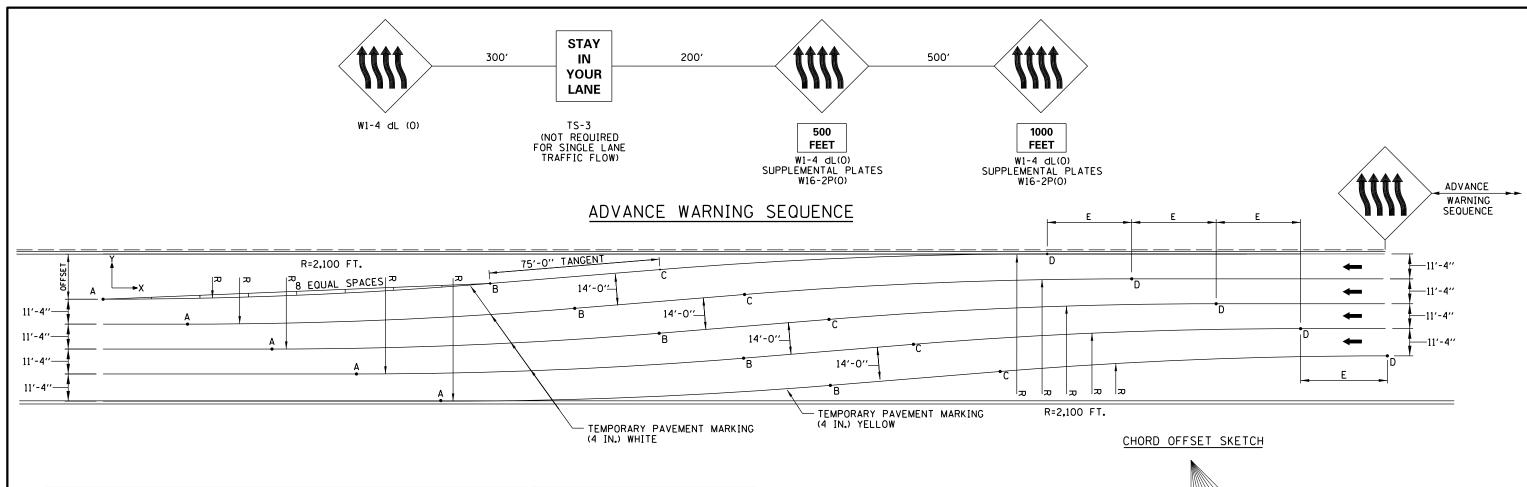
Illinois Tollway Open Roads for a Faster Future

DATE REVISIONS MODIFIED SHOULDER CLOSURE DETAIL SHOULDER CLOSURE DETAILS -MAINTAIN EXISTING SPEED LIMIT -MOVED "TEMPORARY GORE DETAILS" TO E5 CHANGED SYMBOL DESIGNATION
REVISED NOTES STANDARD E3-02

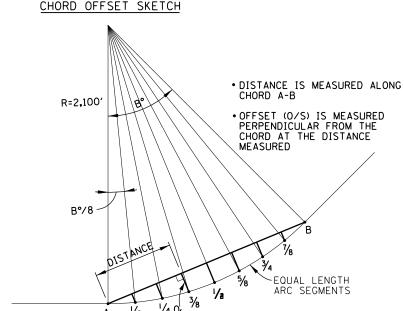
Paul Koracs

APPROVED.

DATE 5-1-2009



			POINT LAY-OUT							CHORD OFFSET DATA								
OFFSET	E	В°	Į.	١	В		С		D		1/8	& 7/8	1/4 8	& 3/4	3/8 8	3/8 & 5/8		2
			X	Y	Х	Y	X	Υ	Х	Υ	0/5	DIST	0/S	DIST	0/5	DIST	0/5	DIST
10	50.23	3.06	0	0	112.2	3.0	187.1	7.0	299.2	10.0	0.3	14.0	0.6	28.0	0.7	42.1	0.7	56.1
12	44.94	3.43	0	0	125.6	3.8	200.4	8.2	326.0	12.0	0.4	15.7	0.7	31.4	0.9	47.1	0.9	62.8
14	40.96	3.77	0	0	138.0	4.5	212.8	9.5	350.8	14.0	0.5	17.3	0.9	34.5	1.1	51.8	1.1	69.0
16	37.86	4.08	0	0	149.5	5.3	224.3	10.7	373.9	16.0	0.6	18.7	1.0	37.4	1.2	56.1	1.3	74.8
18	35.34	4.38	0	0	160.4	6.1	235.2	11.9	395.6	18.0	0.7	20.1	1.2	40.1	1.4	60.2	1.5	80.3
20	33.26	4.66	0	0	170.7	7.0	245.5	13.0	416.2	20.0	0.8	21.4	1.3	42.7	1.6	64.1	1.7	85.4
22	31.50	4.93	0	0	180.5	7.8	255.3	14.2	435.8	22.0	0.9	22.6	1.5	45.2	1.8	67.8	1.9	90.4
24	30.00	5.19	0	0	189.9	8.6	264.6	15.4	454.6	24.0	0.9	23.8	1.6	47.5	2.0	71.3	2.2	95.1
26	28.68	5.44	0	0	199.0	9.4	273.6	16.6	472.6	26.0	1.0	24.9	1.8	49.8	2.2	74.7	2.4	99.6
28	27.53	5.67	0	0	207.7	10.3	282.3	17.7	489.9	28.0	1.1	26.0	1.9	52.0	2.4	78.0	2.6	104.0
30	26.51	5.90	0	0	216.0	11.1	290.6	18.9	506.7	30.0	1.2	27.0	2.1	54.1	2.6	81.1	2.8	108.
32	25.59	6.13	0	0	224.2	12.0	298.7	20.0	522.9	32.0	1.3	28.0	2.3	56.1	2.8	84.2	3.0	112.2
34	24.76	6.34	0	0	232.0	12.9	306.6	21.1	538.6	34.0	1.4	29.0	2.4	58.1	3.0	87.1	3.2	116.2
36	24.02	6.55	0	0	239.7	13.7	314.2	22.3	553.8	36.0	1.5	30.0	2.6	60.0	3.2	90.0	3.4	120.0
38	23.33	6.76	0	0	247.1	14.6	321.6	23.4	568.7	38.0	1.6	30.9	2.7	61.9	3.4	92.8	3.7	123.8
40	22.71	6.96	0	0	254.3	15.5	328.8	24.5	583.1	40.0	1.7	31.8	2.9	63.7	3.6	95.5	3.9	127.4
42	22.13	7.15	0	0	261.4	16.3	335.8	25.7	597.2	42.0	1.8	32.7	3.1	65.4	3.8	98.2	4.1	131.0
44	21.60	7.34	0	0	268.3	17.2	342.7	26.8	611.0	44.0	1.9	33.6	3.2	67.2	4.0	100.8	4.3	134.4
46	21.11	7.53	0	0	275.0	18.1	349.4	27.9	624.4	46.0	2.0	34.4	3.4	68.9	4.2	103.3	4.5	137.8
48	20.65	7.71	0	0	281.6	19.0	356.0	29.0	637.6	48.0	2.1	35.2	3.6	70.5	4.5	105.8	4.7	141.1
50	20.22	7.89	0	0	288.1	19.9	362.4	30.1	650.5	50.0	2.2	36.1	3.7	72.2	4.7	108.3	5.0	144.4
52	19.82	8.06	0	0	294.4	20.7	368.7	31.3	663.1	52.0	2.3	36.9	3.9	73.7	4.9	110.7	5.2	147.6
54	19.44	8.23	0	0	300.6	21.6	374.9	32.4	675.5	54.0	2.4	37.6	4.1	75.3	5.1	113.0	5.4	150.7
56	19.09	8.40	0	0	306.7	22.5	380.9	33.5	687.7	56.0	2.5	38.4	4.2	76.8	5.3	115.3	5.6	153.8
58	18.76	8.56	0	0	312.7	23.4	386.9	34.6	699.6	58.0	2.6	39.2	4.4	78.3	5.5	117.6	5.9	156.8
60	18.44	8.73	0	0	318.6	24.3	392.7	35.7	711.4	60.0	2.7	39.9	4.6	79.8	5.7	119.8	6.1	159.8



GENERAL NOTES:

- 1. REVERSE CURVE INFORMATION CAN BE USED FOR SINGLE LANE OR MULTILANE TRAFFIC FLOWS, SHIFTING RIGHT TO LEFT (AS SHOWN) OR LEFT TO RIGHT BY CHANGING TO THE APPROPRIATE ADVANCE WARNING SEQUENCE.
- 2. THE REVERSE CURVRE SHALL NOT BE USED OUTSIDE THE ACTIVITY AREA, LANE SHIFTS IN ADVANCE OF OR ON THE APPROACH TO THE ACTIVITY AREA SHALL BE IMPLEMENTED WITH A SHIFT RATE OF 83:1.
- 3. LANE SHIFTS FOR DEPARTURES OUT OF THE ACTIVITY AREA SHALL BE IMPLEMENTED WITH A SHIFT RATE OF 75:1.
- 4. DATA SHOWN FOR THIS REVERSE CURVE IS BASED ON A 45 MPH DESIGN AND WORKZONE SPEED.

Illinois Tollway
Open Roads for a Faster Future

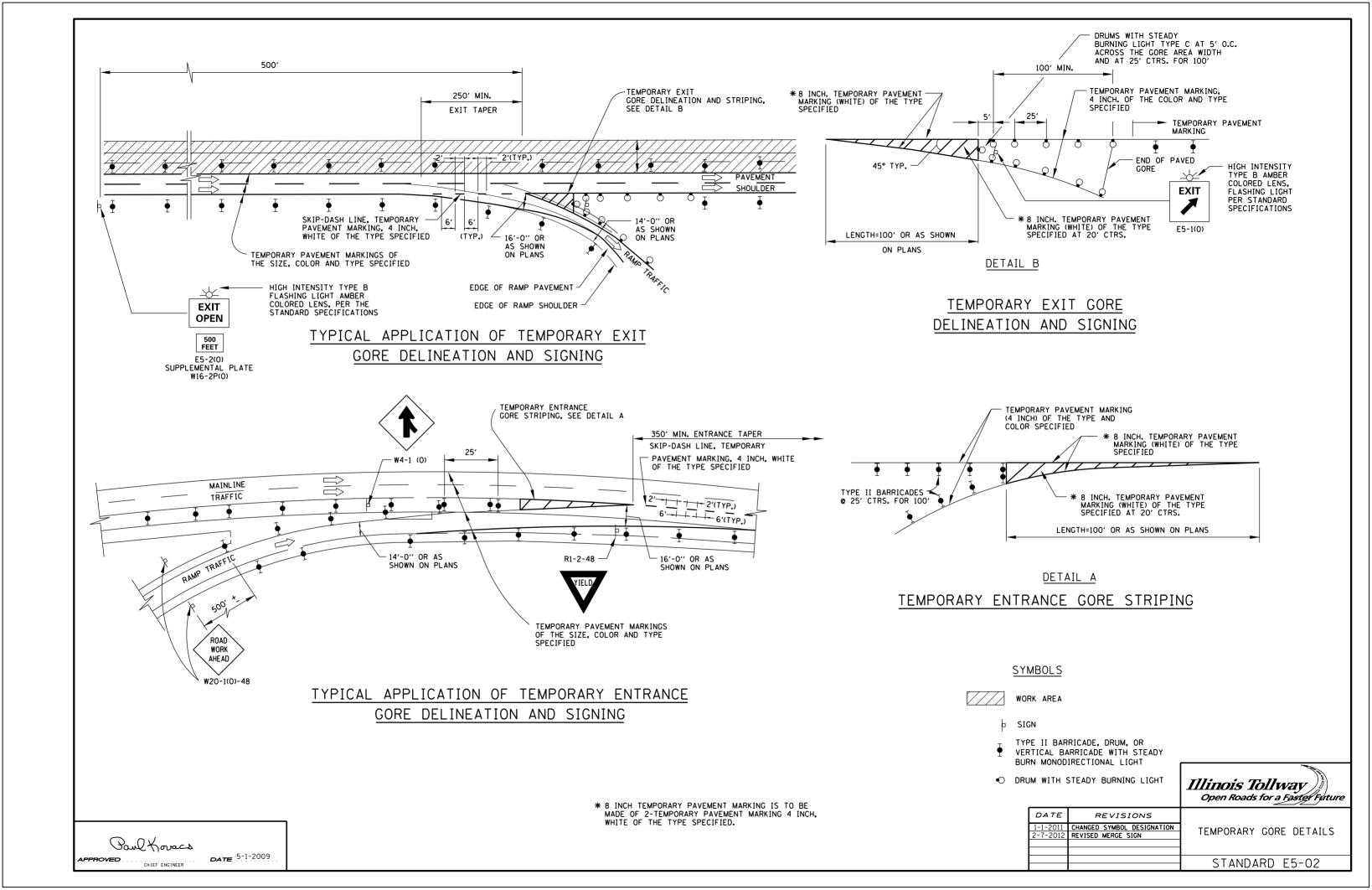
DATE REVISIONS

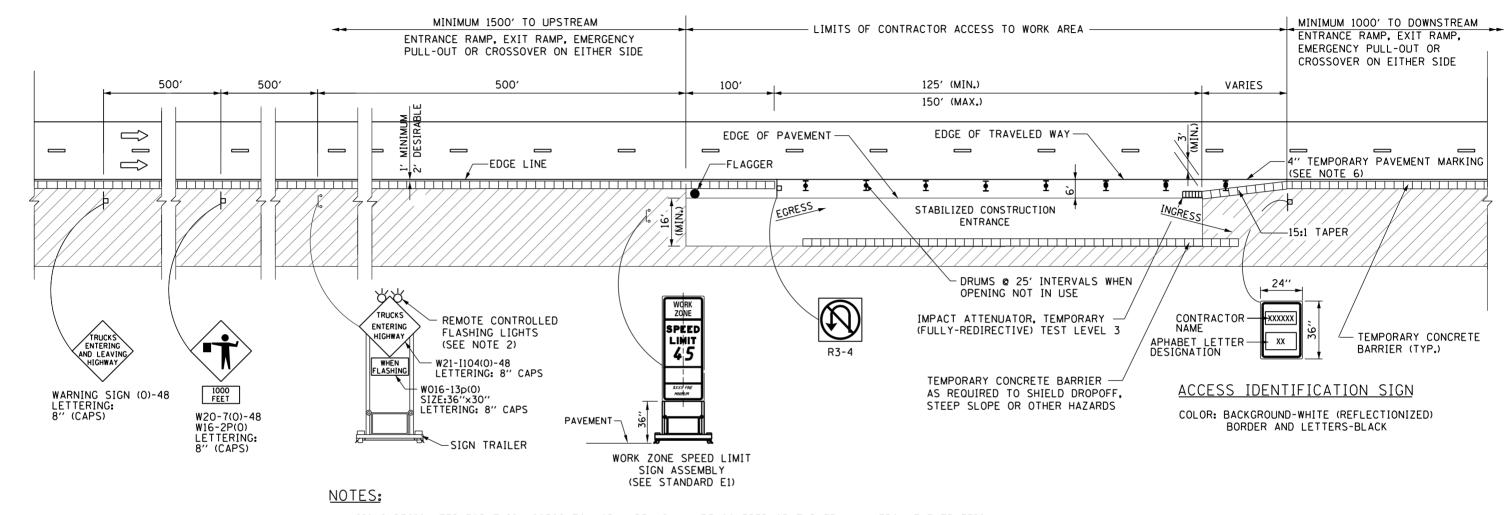
1-1-2011 ADDED SIGN COLOR DESIGNATION AND
REVISED NOTES. MODIFIED LANE WIDTH
DIMENSION/TABLE DATA.
2-7-2012 REVISED NOTES

11-1-2012 REVISED NOTES
STANDARD E4-03

Paul Koracs

DATE 2-7-2012





- 1. SIGNS DESIGNATED FOR THIS ACCESS TO WORK AREA SHALL BE COVERED OR TURNED AWAY FROM THE TRAFFIC WHEN THE FLAGGER IS NOT ON STATION AND THE ACCESS OPENINGS ARE NOT IN USE.
- 2. THE FLASHING WARNING LIGHT SHALL MEET THE REQUIREMENTS OF TOLLWAY SUPPLEMENTAL SPECIFICATIONS AND BE OPERATED BY THE FLAGGER REMOTELY. THE LIGHTS SHALL BE FLASHING ONLY WHEN A VEHICLE IS ENTERING THE TOLLWAY.
- 3. WHEN THREE LANES OR MORE ARE OPENED TO TRAFFIC, ADVANCE WARNING SIGNS AND ASSEMBLIES SHALL BE PROVIDED ON BOTH SIDES OF TRAVELED WAY.
- 4. WHEN CONTRACTOR ACCESS TO WORK AREA IS ON OPPOSITE SIDE FROM SHOWN, ALL INSTALLATIONS ARE MIRROR IMAGE.
- 5. FOR NIGHTIME OPERATIONS, TEMPORARY LIGHTING OF CONSTRUCTION ACCESS TO WORK AREA SHALL BE PROVIDED.
- 6. TEMPORARY PAVEMENT MARKINGS SHALL BE REPLACED AS OFTEN AS NECESSARY TO DELINEATE OPENINGS.
- 7. IF POSSIBLE, LANE CLOSURES SHALL BE UTILIZED TO ELIMINATE THE MERGING OF CONSTRUCTION TRAFFIC INTO THROUGH TRAFFIC LANES.
- 8. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIVED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICES.

Illinois Tollway

Open Roads for a Faster Future

STANDARD E6-00

DATE REVISIONS

CONTRACTOR ACCESS TO WORK AREA

CONTRACTOR ACCESS TO WORK AREA

LEGEND

FLAGGER

CONSTRUCTION SIGN ON SUPPORT PER TOLLWAY STANDARD UNLESS NOTED DIRECTION OF TRAFFIC FLOW

DIRECTION (

✓ WORK AREA

DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT

POUL Youacs

APPROVED DATE 2-7-2012

