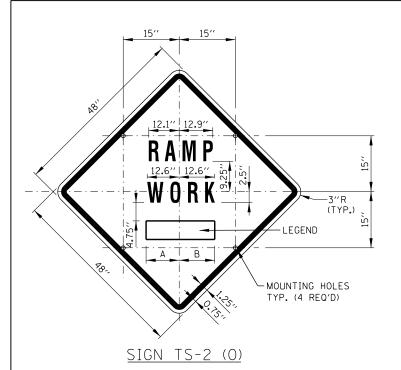
Illinois Tollway Standard Drawing Revisions

Section E	Maintenance	of Traffic
	Standard	Modification Summary Effective: 03-01-2019
	<u> </u>	mountain cummary
	E1	CONSTRUCTION SIGNS
	E1	
		Deleted G20-I102 ("WORK ZONE") and G20-I103 ("END WORK ZONE SPEED LIMIT") signs. Use IDOT Standard Dimensions. Removed "BEGINS" and "RESUMES" panels from Work Zone Speed Limit Assembly and added "PHOTO ENFORCED" Added
		Work Zone Speed Limit Transition Signs.
	E2	LANE CLOSURE DETAILS
		Re-arranged details, Added WZSL Transition, Added 2'-0" minimum clearance between work and open lane, added TMA.
	E3	SHOULDER CLOSURE DETAILS
		Deleted W21-1a signs, adjusted sign spacing, revised notes, added TMA
	E5	TEMPORARY GORE DETAILS
		Revised exit barricades and added PCMS.
	E6	CONTRACTOR ACCESS TO WORK AREA
	-	Added sheet for details without barrier wall with TMA, and Spotters



COLOR: BACKGROUND - FLUORESCENT ORANGE (0)

BORDER AND SYMBOL - BLACK

SIZE: 48"×48"

LETTERING: 7" FEDERAL SERIES D

MOUNTING HOLES: 7/6" DIA., 4 HOLES SPACED AS SHOWN

SIGN NO. LEGEND TS-2A AHEAD 15.50 15.50" 14.25" 500 FT 15.13" TS-2B TS-2C 1000 FT | 14.88" L2 15.75" L2 1500 FT | 14.88" \(\alpha \) 15.75" L2 TS-2D 1/2 MILE | 15.75" \(\alpha \) 15.75" ₄3 TS-2E 13.06" 13.06" TS-2F 1 MILE

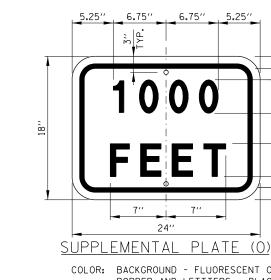
A 41/2' B 5¾" C | 121/2" D 73/4" E 61/2" F 41/2' 61/2′ 6" I 12¾′ 12'' J K 45° L 55° M 3/4" N1 N2 6¹/₂" MOUNTING HOLES TYP. (4 REQ'D)

SIGN W1-4dR (0)

COLOR: BACKGROUND-FLUORESCENT ORANGE (0) TYPE A REFLECTIVE SHEETING PER STANDARD SPECIFICATIONS (* A) BORDER AND LETTERS-BLACK

SIZE: 48"×48"

MOUNTING HOLES: $\frac{7}{16}$ " DIA., 4 HOLES SPACED AS SHOWN.



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

SIZE: 24"×18"

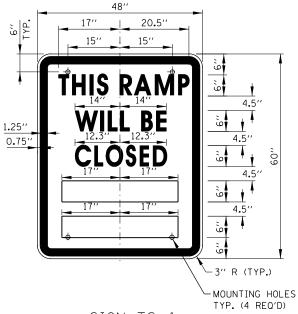
LETTERING: 4" FEDERAL SERIES D
MOUNTING HOLES: 16" DIA., 2 HOLES SPACED AS SHOWN

1.25" 0.75′ 15''____ 15'' -3" R (TYP.) -MOUNTING HOLES TYP. (4 REQ'D)

SIGN TS-3

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

LETTERING: LEGEND - 8" FEDERAL SERIES D
MOUNTING HOLES: 76" DIA., 4 HOLES, SPACED AS SHOWN



SIGN TS-4

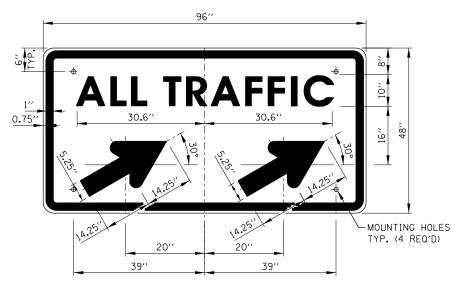
COLOR: BACKGROUND - WHITE (REFLECTORIZED)(*A)

BORDER AND LETTERS - BLACK

SIZE: 48"x60"

LETTERING: LEGEND - 6" FEDERAL SERIES C MOUNTING HOLES: $\frac{1}{16}$ " DIA., 4 HOLES, SPACED AS SHOWN

TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.



SIGN TS-5a & TS-5b

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

SIZE: 96"×48"

LETTERING: 10" FEDERAL SERIES D

MOUNTING HOLES: 1/6" DIA. 4 HOLES, SPACED AS SHOWN NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE

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

NOTES:

- 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 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. 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:
 - L1 SPACING REDUCED BY 25%
 - L2 SPACING REDUCED BY 40%
 - **L3 SPACING REDUCED BY 50%**

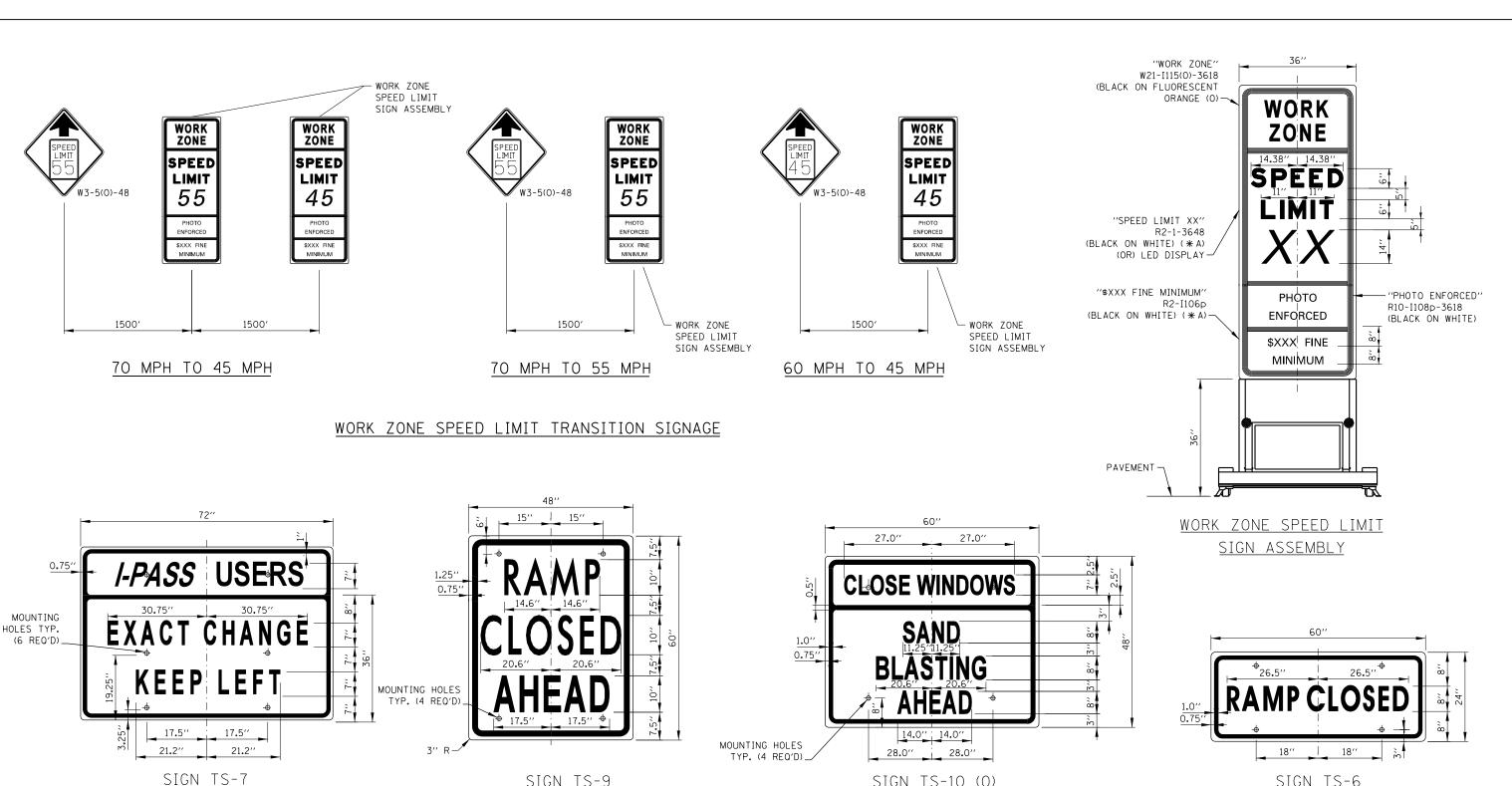
SHEET 1 OF 2

DATE	REVISIONS	Illinois Tollway
11-01-12	DELETED SIGN TS-1 REVISED FINE SIGN NUMBER AND	CONSTRUCTION SIGNS
3-31-2017	ADDED LED SPEED LIMIT DISPLAY REVISED NOTES REVISED END WZSL SIGN COLOR	CONSTRUCTION SIGNS
3-01-2019	REMOVED STANDARD IDOT SIGNS, REVISED WZSL ASSEMBLY, ADDED WZSL TRANSITION	STANDARD E1-07

RAMP CLOSURE ADVANCE INFORMATION SIGN

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM





SIGN TS-9 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)

BORDER AND LETTTERS - BLACK SIZE: 48"x60"

LETTERING: 10" FEDERAL SERIES C
MOUNTING HOLES: 76" DIA., 4 HOLES SPACED AS SHOWN

SIGN TS-10 (0) COLOR: BACKGROUND - FLUORESCENT ORANGE (0)

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 (REFLECTORIZED) (* A) BORDER AND LETTTERS - BLACK

SIZE: 60"x24"

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

SHEET 2 OF 2



STANDARD E1-07

Paul Koracs APPROVED. CHIEF ENGINEERING OFFICER 5-1-2009

SIZE: 72"×36"

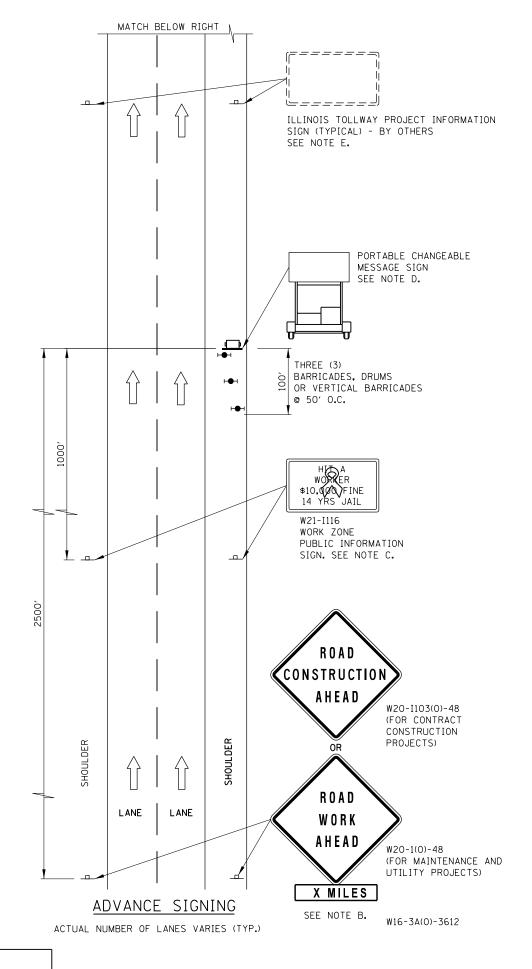
LETTERING: 7" FEDERAL SERIES C

MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN

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

BORDER AND LETTTERS - BLACK

SEE SHEET 1 OF THIS SERIES FOR NOTES.



ADVANCE SIGNING NOTES:

- THE ADVANCE SIGNING SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE "ROAD WORK AHEAD" OR "ROAD CONSTRUCTION AHEAD" SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.
- B. THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3a SUPPLEMENTAL PLATE) OR ROAD WORK AHEAD SIGN (W20-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.
- THE WORK ZONE PUBLIC 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.
- THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE(S) CLOSED" / "x MILES AHEAD", "LEFT LANE(S) CLOSED" / "x MILES AHEAD", "LANE(S) SHIFT" / "x MILES AHEAD", "ALL LANES OPEN". THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.
- E. THE ILLINOIS TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BEYOND THE PORTABLE CHANGEABLE MESSAGE SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE ILLINOIS TOLLWAY REGARDING THE LOCATION OF THESE SIGNS AND NOTIFY THE ILLINOIS TOLLWAY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

LEGEND

ARROW BOARD



WORK AREA

Þ SIGN

- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN

♣ worker

X LANE CLOSED

Let CHECK BARRICADE

TRUCK MOUNTED ATTENUATOR

SHEET 1 OF 3

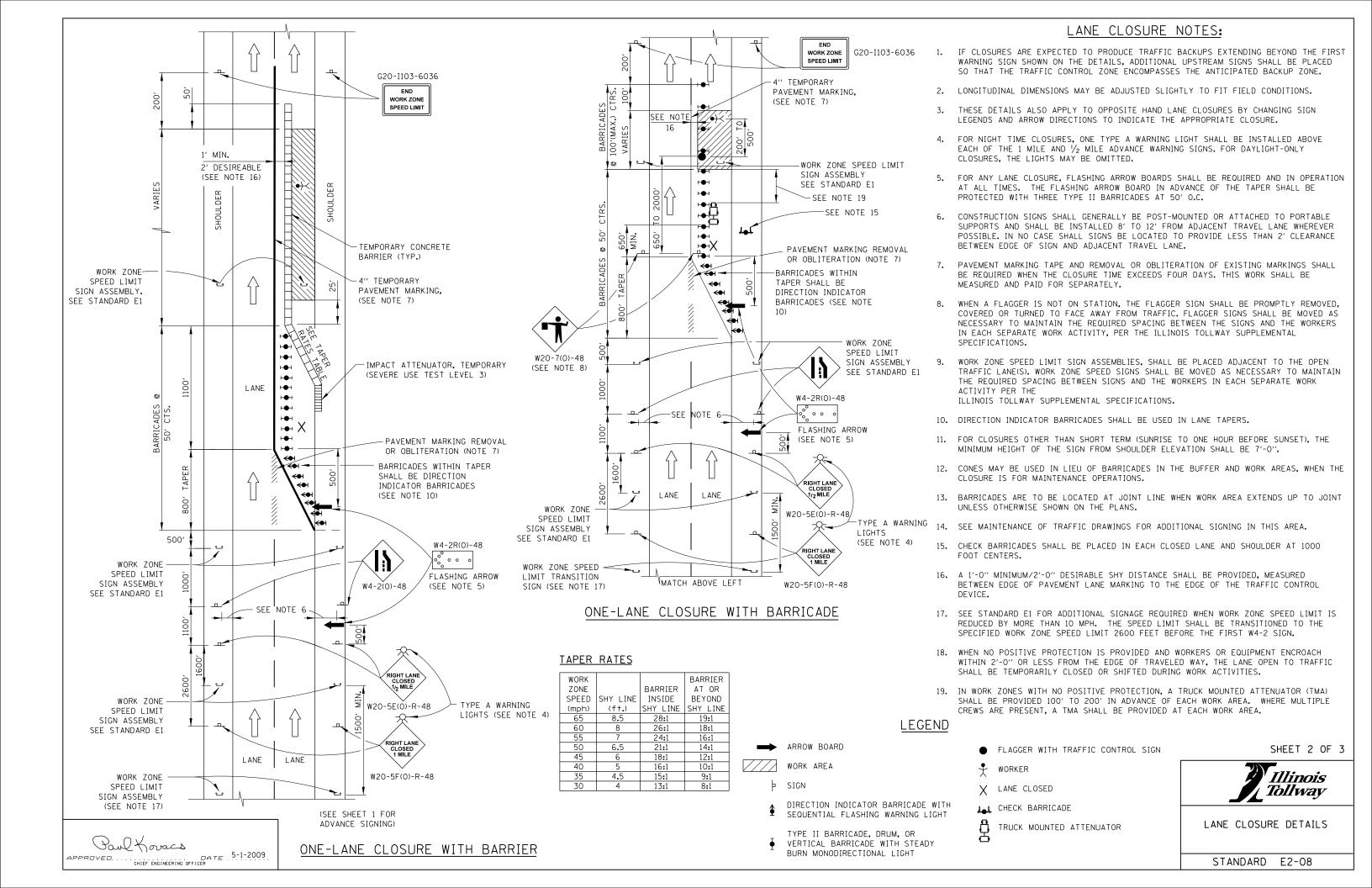


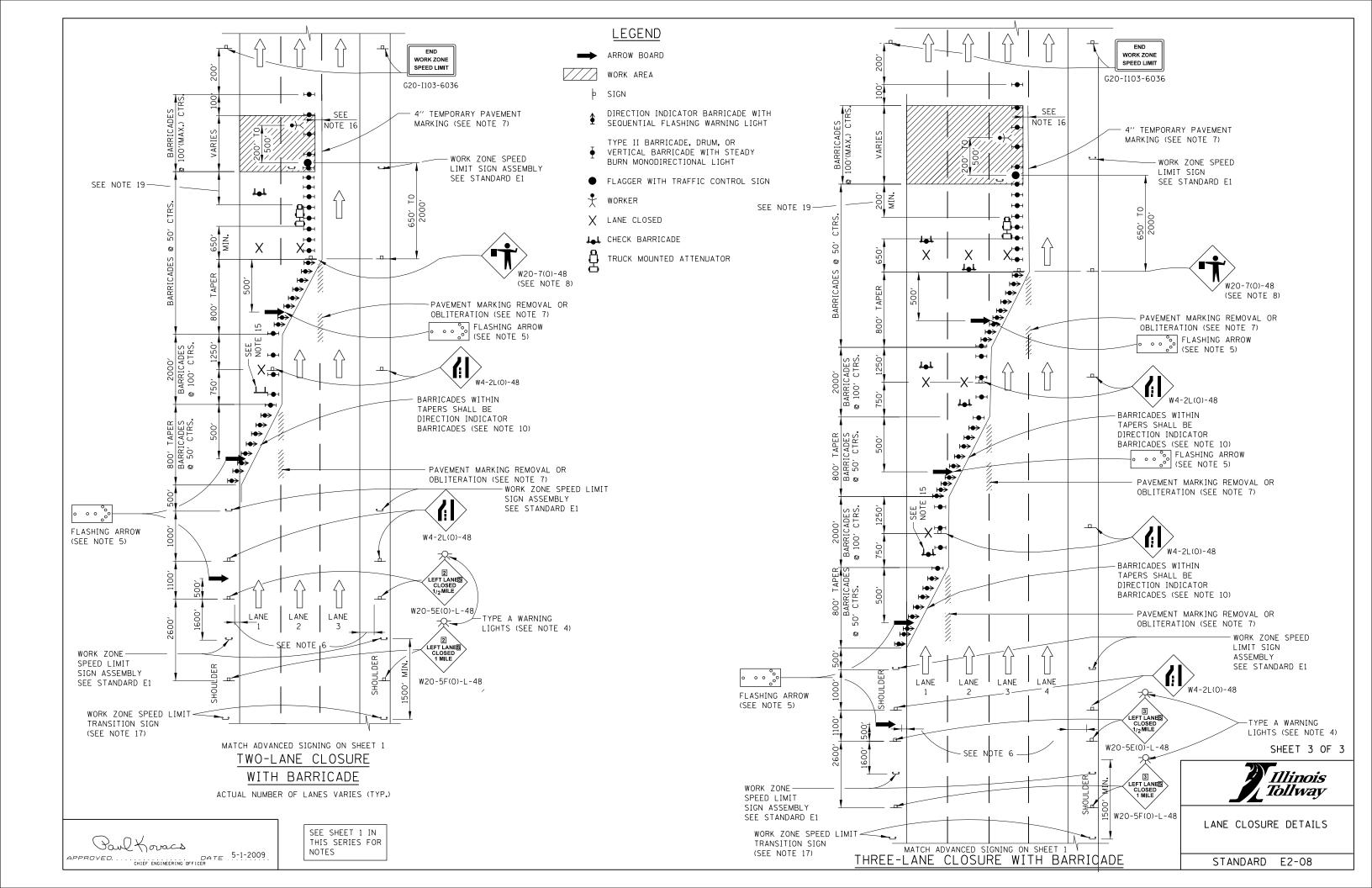
D LANE CLOSURE WITH BARRIER AND ADDED LANE CLOSURE DETAILS SEQUENTIAL FLASHING WARNING LIGHT. ADDED TAPER RATE TABLE

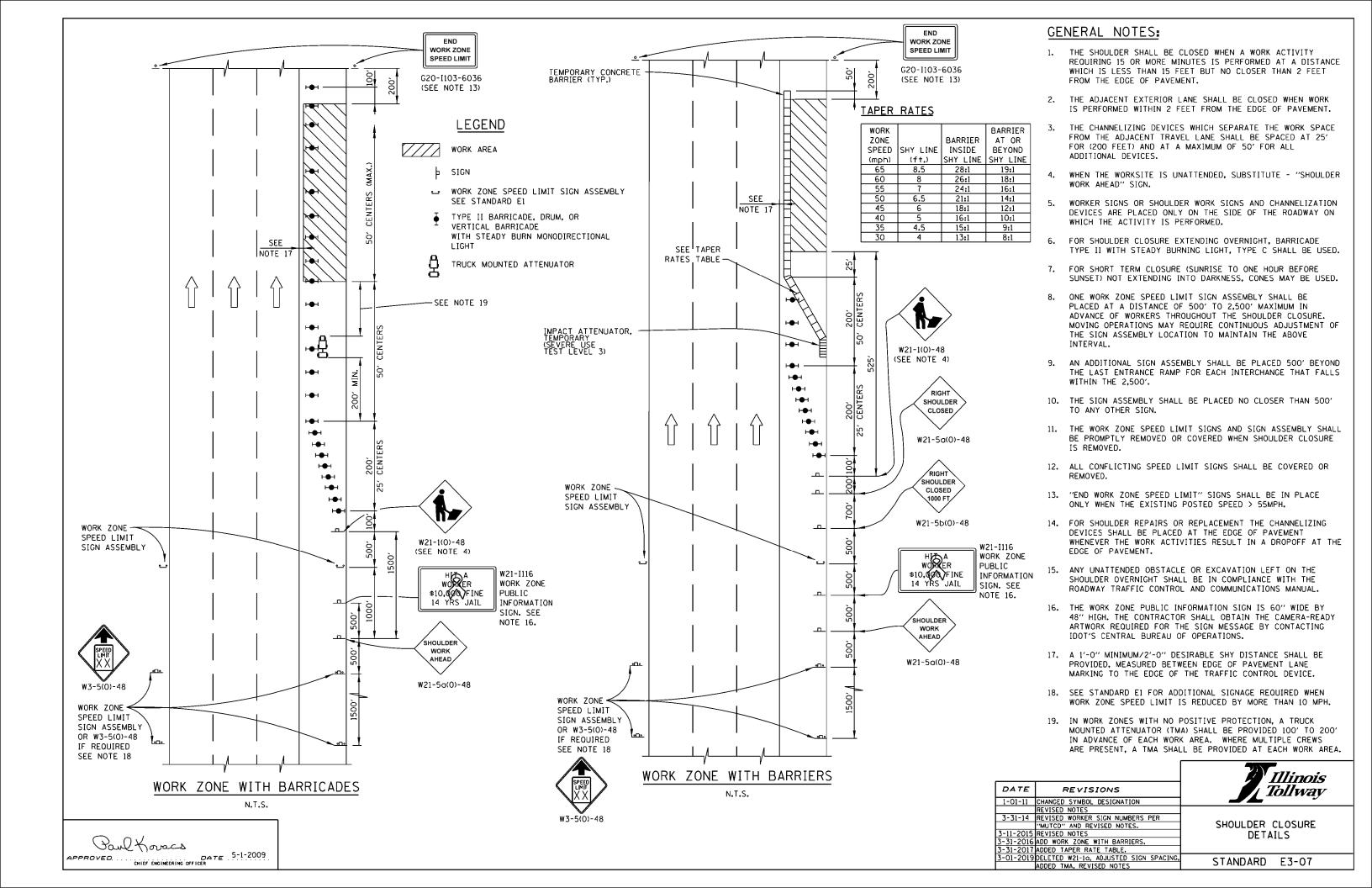
RE-ARRANGED DETAILS, REVISED NOTE 17,
ADDED NOTES 18 & 19, ADDED TMA

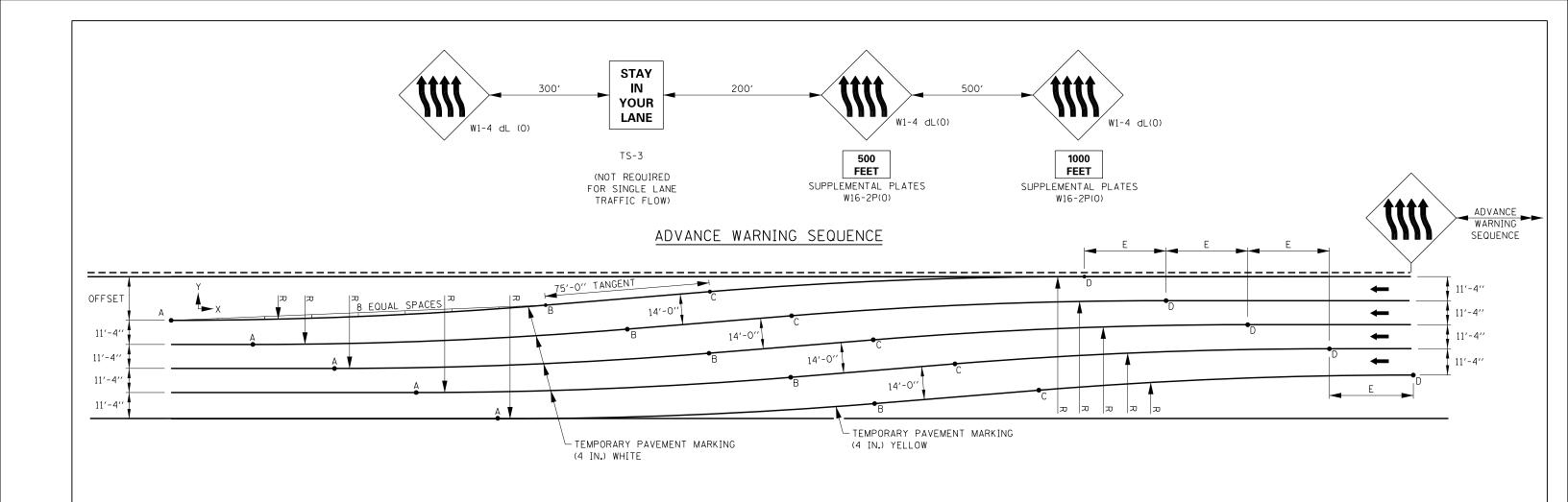
STANDARD E2-08

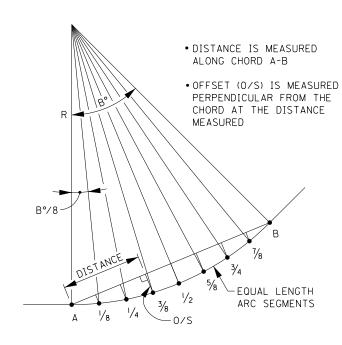
Paul Koracs APPROVED. CHIEF ENGINEERING OFFICER 5-1-2009











CHORD OFFSET SKETCH

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 CURVE 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 65:1.
- 3. LANE SHIFTS FOR DEPARTURES OUT OF THE ACTIVITY AREA SHALL BE IMPLEMENTED WITH A SHIFT RATE OF 65:1.

SHEET 1 OF 2

TAX

		A Illinois
DATE	REVISIONS	Tollway
2-07-12	REVISED NOTES	
11-01-12	REVISED NOTES.	
3-31-14	REVISED CURVE DATA PER MPH AND	MAINTENANCE OF TRAFFIC
	REVISED NOTES.	REVERSE CURVE
3-11-2015	REVISED NOTES AND ADDED RADIUS	THE VERTOE CONVE
	DIMENSIONS TO TABLES.	
3-31-2016	REVISED TABLE DATA ON SHEET 2.	STANDARD E4-07
3-31-2017	REVISED TABLE DATA ON SHEET 2.	STANDARD E4-01

Paul Kovacs

APPROVED. ... CHIÉF ÉNGINÉER ... DATE 2-7-2012.

TYPE I (45 MPH) (RADIUS: 2100')

TYPE II (50-55 MPH) (RADIUS: 3100')

TIPE I (45 MIPH) (NADIOS: 2100)																		
			POINT LAY-OUT						CHORD OFFSET DATA									
OFFSET	E	В	,	А	[3	(,)	1/8	& 7/8	1/4 8	§ 3/4	3/8	& 5/8	1/	/2
			X	Y	Х	Y	X	Υ	X	Y	0/S	DIST	0/S	DIST	0/S	DIST	0/S	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	108.2
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

	POINT LAY-OUT											(CHORD	OFFSI	ET DA	ΤA		
OFFSET	E	В	А		E	3	C	,)	1/8	& 7/8	1/4	& 3/4	3/8	& 5/8	1/	/2
			Χ	Y	X	Y	X	Y	X	Y	0/S	DIST	0/S	DIST	0/S	DIST	0/5	DIST
10	58.28	2.63	0	0	142.5	3.3	217.4	6.7	359.9	10.0	0.4	17.8	0.6	35.6	0.8	53.4	0.8	71.3
12	52.30	2.94	0	0	158.9	4.1	233.8	7.9	392.8	12.0	0.4	19.9	0.8	39.7	1.0	59.6	1.0	79.5
14	47.80	3.22	0	0	174.1	4.9	249.0	9.1	423.1	14.0	0.5	21.8	0.9	43.5	1.1	65.3	1.2	87.1
16	44.25	3.48	0	0	188.3	5.7	263.1	10.3	451.4	16.0	0.6	23.5	1.1	47.1	1.3	70.6	1.4	94.2
18	41.38	3.73	0	0	201.6	6.6	276.4	11.4	478.0	18.0	0.7	25.2	1.2	50.4	1.5	75.6	1.6	100.8
20	38.99	3.96	0	0	214.2	7.4	289.0	12.6	503.2	20.0	0.8	26.8	1.4	53.6	1.7	80.4	1.9	107.2
22	36.96	4.18	0	0	226.2	8.3	301.0	13.7	527.2	22.0	0.9	28.3	1.5	56.6	1.9	84.9	2.1	113.2
24	35.22	4.40	0	0	237.7	9.1	312.5	14.9	550.1	24.0	1.0	29.7	1.7	59.5	2.1	89.2	2.3	118.9
26	33.70	4.60	0	0	248.7	10.0	323.5	16.0	572.1	26.0	1.1	31.1	1.9	62.2	2.3	93.3	2.5	124.4
28	32.36	4.80	0	0	259.3	10.9	334.0	17.1	593.3	28.0	1.2	32.4	2.0	64.9	2.5	97.3	2.7	129.8
30	31.16	4.99	0	0	269.5	11.7	344.2	18.3	613.8	30.0	1.3	33.7	2.2	67.4	2.8	101.2	2.9	134.9
32	30.10	5.17	0	0	279.4	12.6	354.1	19.4	633.6	32.0	1.4	34.9	2.4	69.9	3.0	104.9	3.2	139.9
34	29.13	5.35	0	0	289.0	13.5	363.7	20.5	652.7	34.0	1.5	36.2	2.5	72.3	3.2	108.5	3.4	144.7
36	28.25	5.52	0	0	298.4	14.4	373.0	21.6	671.4	36.0	1.6	37.3	2.7	74.7	3.4	112.0	3.6	149.4
38	27.45	5.69	0	0	307.4	15.3	382.1	22.7	689.5	38.0	1.7	38.5	2.9	76.9	3.6	115.4	3.8	153.9
40	26.72	5.86	0	0	316.3	16.2	390.9	23.8	707.1	40.0	1.8	39.6	3.0	79.1	3.8	118.7	4.0	158.3
42	26.04	6.02	0	0	324.9	17.1	399.5	24.9	724.3	42.0	1.9	40.6	3.2	81.3	4.0	122.0	4.3	162.7
44	25.41	6.17	0	0	333.3	18.0	407.9	26.0	741.1	44.0	2.0	41.7	3.4	83.4	4.2	125.1	4.5	166.9
46	24.83	6.32	0	0	341.5	18.9	416.1	27.1	757.6	46.0	2.1	42.7	3.5	85.5	4.4	128.2	4.7	171.0
48	24.29	6.47	0	0	349.6	19.8	424.1	28.2	773.6	48.0	2.2	43.7	3.7	87.5	4.6	131.3	4.9	175.1
50	23.78	6.62	0	0	357.4	20.7	431.9	29.3	789.4	50.0	2.3	44.7	3.9	89.5	4.8	134.2	5.2	179.0
52	23.31	6.76	0	0	365.2	21.6	439.6	30.4	804.8	52.0	2.4	45.7	4.0	91.4	5.1	137.2	5.4	182.9
54	22.86	6.91	0	0	372.7	22.5	447.2	31.5	819.9	54.0	2.5	46.6	4.2	93.3	5.3	140.0	5.6	186.7
56	22.44	7.04	0	0	380.2	23.4	454.6	32.6	834.8	56.0	2.6	47.6	4.4	95.2	5.5	142.8	5.9	190.5
58	22.05	7.18	0	0	387.5	24.3	461.9	33.7	849.4	58.0	2.7	48.5	4.6	97.0	5.7	145.6	6.1	194.1
60	21.67	7.31	0	0	394.7	25.2	469.1	34.8	863.7	60.0	2.8	49.4	4.7	98.8	5.9	148.3	6.3	197.7

TYPE III (60-65 MPH) (RADIUS: 4400')

POINT LAY-OUT									СНС	ORD OF	FSET	DATA						
OFFSET	E	В	А		E	3))	1/8	& 7/8	1/4 8	§ 3/4	3/8	& 5/8	1.	/2
			X	Y	X	Y	X	Y	X	Y	0/S	DIST	0/5	DIST	0/5	DIST	0/S	DIST
10	67.06	2.29	0	0	175.6	3 . 5	250.5	6.5	426.1	10.0	0.4	21.9	0.7	43.9	0.8	65.8	0.9	87.8
12	60.34	2.54	0	0	195.3	4.3	270.2	7.7	465.5	12.0	0.5	24.4	0.8	48.8	1.0	73.2	1.1	97.7
14	55.24	2.78	0	0	213.5	5.2	288.4	8.8	501.8	14.0	0.6	26.7	1.0	53.4	1.2	80.1	1.3	106.8
16	51.22	3.00	0	0	230.4	6.0	305.3	10.0	535.7	16.0	0.7	28.8	1.1	57.6	1.4	86.4	1.5	115.2
18	47.95	3.21	0	0	246.3	6.9	321.2	11.1	567.5	18.0	0.8	30.8	1.3	61.6	1.6	92.4	1.7	123.2
20	45.22	3.41	0	0	261.4	7.8	336.3	12.2	597.7	20.0	0.9	32.7	1.5	65.4	1.8	98.1	1.9	130.8
22	42.90	3.59	0	0	275.8	8.6	350.6	13.4	626.4	22.0	0.9	34.5	1.6	69.0	2.0	103.5	2.2	137.9
24	40.91	3.77	0	0	289.5	9.5	364.3	14.5	653.8	24.0	1.0	36.2	1.8	72.4	2.2	108.6	2.4	144.8
26	39.16	3.94	0	0	302.6	10.4	377.5	15.6	680.1	26.0	1.1	37.8	2.0	75.7	2.4	113.6	2.6	151.4
28	37.62	4.11	0	0	315.3	11.3	390.1	16.7	705.4	28.0	1.2	39.4	2.1	78.9	2.7	118.3	2.8	157.8
30	36.24	4.27	0	0	327.5	12.2	402.3	17.8	729.9	30.0	1.3	41.0	2.3	81.9	2.9	122.9	3.1	163.9
32	35.01	4.42	0	0	339.4	13.1	414.2	18.9	753 . 5	32.0	1.4	42.4	2.5	84.9	3.1	127.4	3.3	169.8
34	33.90	4.57	0	0	350.8	14.0	425.6	20.0	776.4	34.0	1.5	43.9	2.6	87.8	3.3	131.7	3.5	175.6
36	32.88	4.72	0	0	362.0	14.9	436.7	21.1	798.7	36.0	1.6	45.3	2.8	90.6	3.5	135.8	3.7	181.1
38	31.95	4.86	0	0	372.8	15.8	447.5	22.2	820.4	38.0	1.7	46.6	3.0	93.3	3.7	139.9	4.0	186.6
40	31.10	5.00	0	0	383.4	16.7	458.1	23.3	841.4	40.0	1.8	47.9	3.1	95.9	3.9	143.9	4.2	191.9
42	30.31	5.13	0	0	393.7	17.6	468.4	24.4	862.0	42.0	1.9	49.2	3.3	98.5	4.1	147.8	4.4	197.0
44	29.59	5.26	0	0	403.7	18.6	478.4	25.4	882.1	44.0	2.0	50.5	3 . 5	101.0	4.4	151.5	4.6	202.1
46	28.91	5.39	0	0	413.5	19.5	488.2	26.5	901.7	46.0	2.1	51.7	3.7	103.5	4.6	155.2	4.9	207.0
48	28.28	5.52	0	0	423.1	20.4	497.8	27.6	920.9	48.0	2.2	52.9	3.8	105.9	4.8	158.8	5.1	211.8
50	27.68	5.64	0	0	432.6	21.3	507.2	28.7	939.7	50.0	2.3	54.1	4.0	108.2	5.0	162.4	5.3	216.5
52	27.13	5.76	0	0	441.8	22.2	516.4	29.8	958.2	52.0	2.4	55.3	4.2	110.6	5.2	165.9	5.6	221.2
54	26.61	5.88	0	0	450.8	23.2	525.4	30.8	976.3	54.0	2.5	56.4	4.3	112.8	5.4	169.3	5.8	225.7
56	26.12	6.00	0	0	459.7	24.1	534.3	31.9	994.0	56.0	2.6	57 . 5	4.5	115.0	5.6	172.6	6.0	230.2
58	25.65	6.11	0	0	468.4	25.0	543.0	33.0	1011.5	58.0	2.7	58.6	4.7	117.2	5.9	175.9	6.3	234.6
60	25.21	6.22	0	0	477.0	25.9	551.6	34.1	1028.6	60.0	2.8	59.7	4.9	119.4	6.1	179.1	6.5	238.9

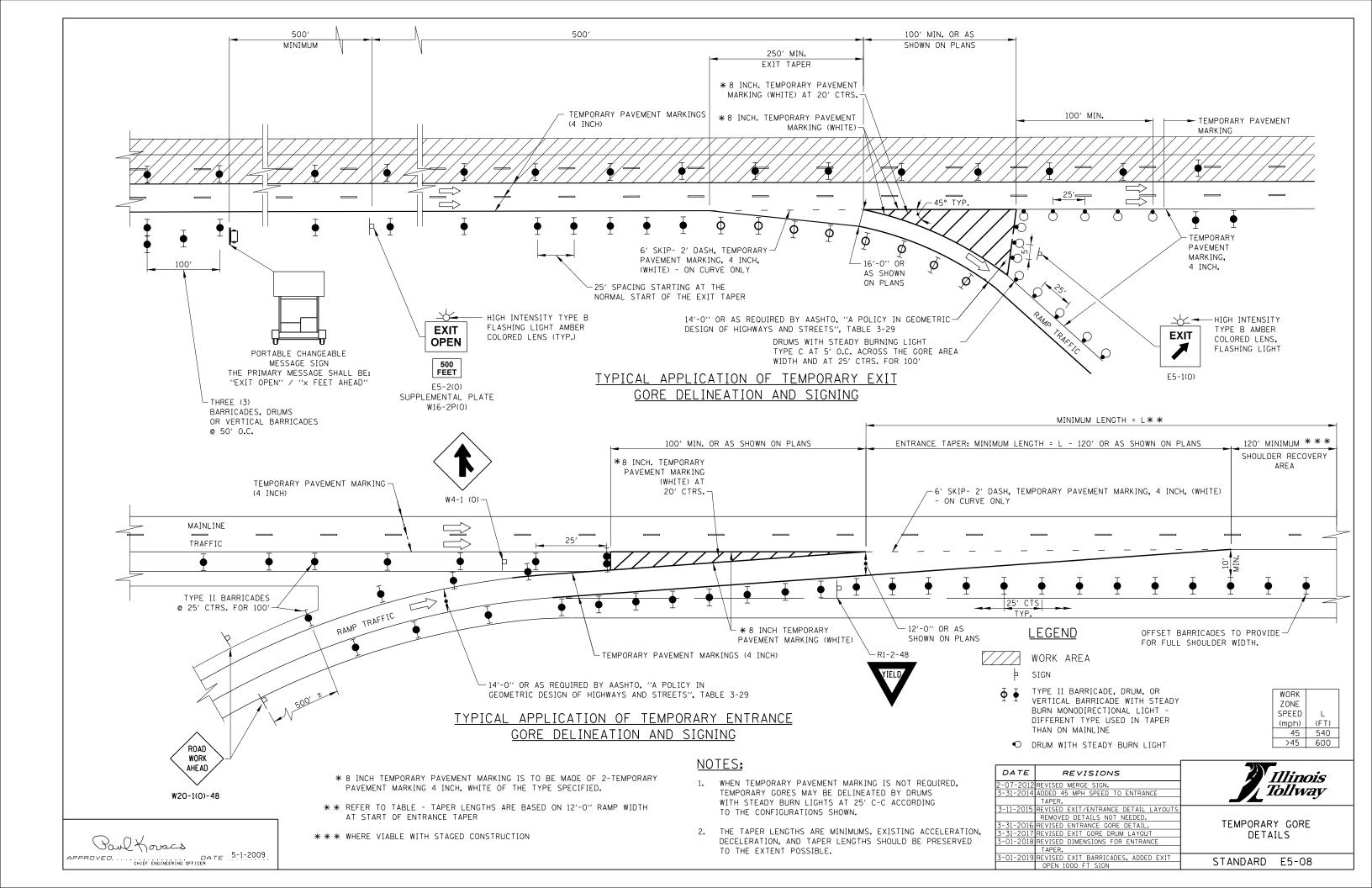
SHEET 2 OF 2

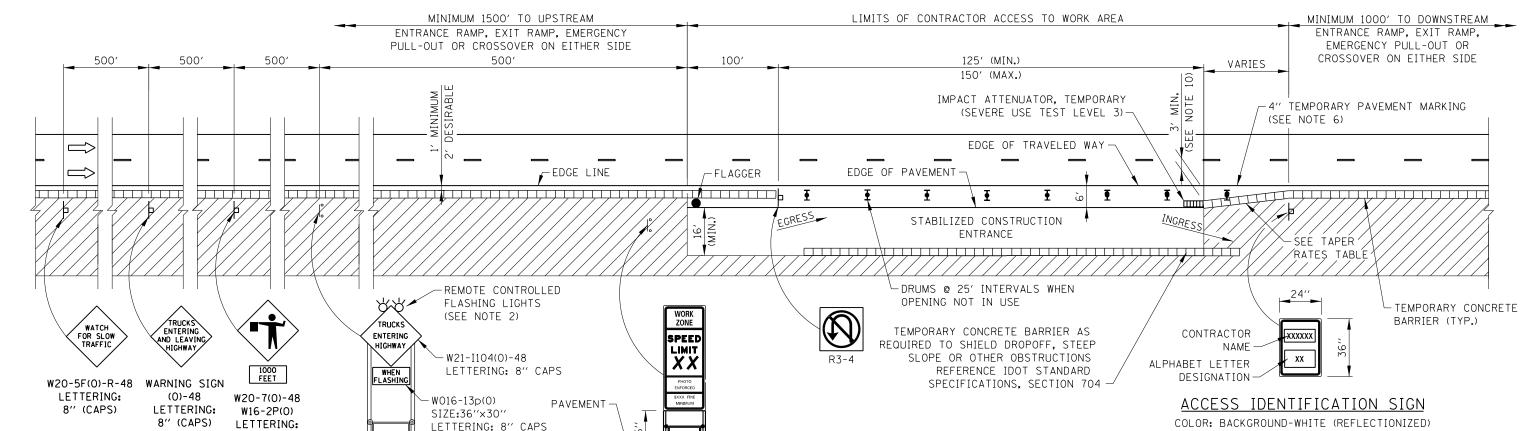


MAINTENANCE OF TRAFFIC REVERSE CURVE

STANDARD E4-07

PROVED. DATE 2-7-2012





CONTRACTOR ACCESS TO WORK AREA WITH BARRIER WALL

WORK ZONE SPEED LIMIT

SIGN ASSEMBLY (SEE STANDARD E1)

NOTES:

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.

-SIGN TRAILER

8" (CAPS)

- 2. THE FLASHING WARNING LIGHT SHALL MEET THE REQUIREMENTS OF ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS AND BE OPERATED BY THE FLAGGER REMOTELY. THE LIGHTS SHALL BE FLASHING ONLY WHEN A VEHICLE IS ENTERING THE ILLINOIS TOLLWAY.
- WHEN THREE LANES OR MORE ARE OPENED TO TRAFFIC. ADVANCE WARNING SIGNS AND ASSEMBLIES SHALL BE PROVIDED ON BOTH SIDES OF TRAVELED WAY.
- WHEN CONTRACTOR ACCESS TO WORK AREA IS ON OPPOSITE SIDE FROM SHOWN, ALL INSTALLATIONS ARE MIRROR IMAGE.
- FOR NIGHTIME OPERATIONS, TEMPORARY LIGHTING OF CONSTRUCTION ACCESS TO WORK AREA SHALL BE PROVIDED.
- TEMPORARY PAVEMENT MARKINGS SHALL BE REPLACED AS OFTEN AS NECESSARY TO DELINEATE OPENINGS.
- 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.

- "TRUCKS ENTERING HIGHWAY" SIGN MAY BE SUPPORTED BY OPTIONAL POST OR STAND MOUNTED DEVICES WHEN POSITIONED BEHIND TEMPORARY CONCRETE BARRIER.
- 10. A TEMPORARY EXCEPTION TO THE 3' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND EDGE OF ATTENUATOR MAY BE REQUESTED FOR PCC PAVING OPERATIONS WHEN THIS CONFIGURATION DOES NOT PROVIDE 4' OF CLEARANCE BETWEEN BACK OF ATTENUATOR AND THE PROPOSED EDGE OF THE LANE BEING CONSTRUCTED IN THE CURRENT STAGE. THE DURATION OF REDUCED CLEARANCE SHALL BE LIMITED TO 24 HOURS.
- 11. CONTRACTOR ACCESS LOCATIONS SHALL BE SPACED NO CLOSER THAN 2.600 FEET BETWEEN AREAS. EXCEPT FOR BRIDGE WORK WHERE 1 ACCESS LOCATION MAY BE PROVIDED ON EACH SIDE OF THE STRUCTURE. AT THESE LOCATIONS, ONLY 1 ACCESS LOCATION AT A TIME WILL BE ALLOWED TO BE OPEN FOR USE.
- 12. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 13. ALL VEHICLES SHALL USE THEIR TURN SIGNALS TO WARN MOTORISTS WHEN ENTERING AND EXITING THE WORK ZONE OPENINGS.
- 14. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANF.
- 15. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TMA SHALL BE LOCATED IN THE WORK ZONE AND SHALL FOLLOW THE MOVING OPERATION. IF MORE THAN ONE WORK ZONE IS IN OPERATION, ADDITIONAL TMA AND SPOTTERS WILL BE REQUIRED.

BORDER AND LETTERS-BLACK

TAPER RATES

WORK			BARRIER
ZONE		BARRIER	AT OR
SPEED	SHY LINE	INSIDE	BEYOND
(mph)	(f+.)	SHY LINE	SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13.1	8:1

LEGEND

FLAGGER

SPOTTER

CONSTRUCTION SIGN ON SUPPORT PER ILLINOIS TOLLWAY STANDARD UNLESS

DIRECTION OF TRAFFIC FLOW

WORK AREA

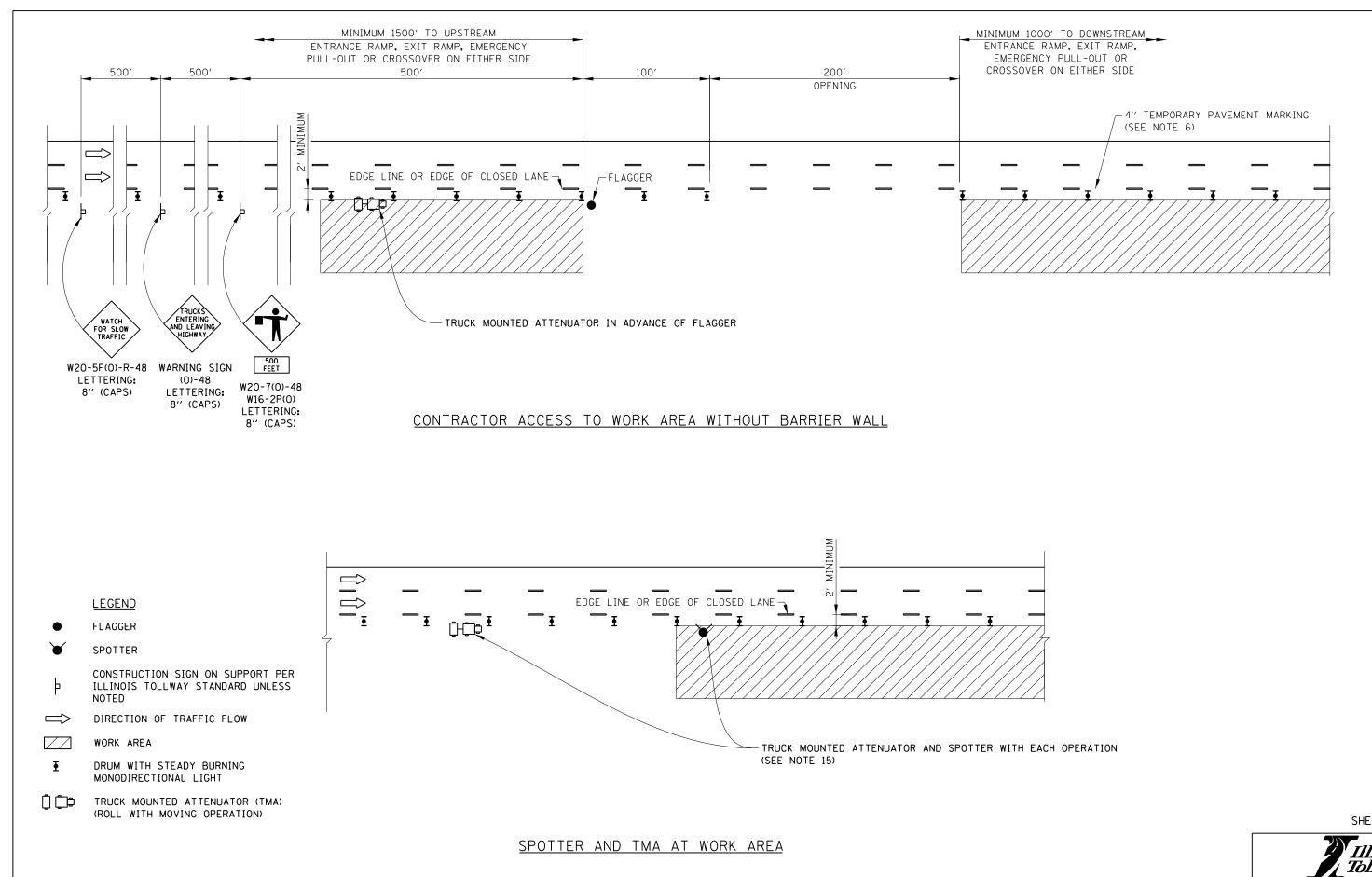
Ī DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT

TRUCK MOUNTED ATTENUATOR (TMA) (ROLL WITH MOVING OPERATION)

SHEET 1 OF 2

		Illinois Tollway
DATE	REVISIONS	
3-01-2013	REVISED NOTES.	
3-31-2014	REVISED NOTE FOR TEMPORARY	CONTRACTOR ACCESS
	CONCRETE BARRIER.	TO WORK AREA
3-31-2017	ADDED TAPER RATES TABLE	. o nom Anex
3-01-2018	ADDED NOTES 10 & 11	
3-01-2019	ADDED SHEET FOR DETAILS	STANDARD E6-05
	WITHOUT BARRIER WALL	STANDARD E0-03

APPROVED. ... CHIEF ENGINEERING OFFICER



Paul Horacs

APPROVED. ... DATE 2-7-2012

SHEET 2 OF 2



CONTRACTOR ACCESS
TO WORK AREA

STANDARD E6-05

