Illinois Tollway Standard Drawing Revisions

Section C	Guardrail 8	Concrete Barrier
	Standard	Modification Summary Effective: 03-01-2024
	C1-13	GALVANIZED STEEL PLATE BEAM GUARDRAIL
	Sheet 1	Removed notes 7 and 10 and their references. Removed requirements for 9' posts.
	Sheet 3	Removed notes relating to 9' post identification.
	C2-01	CONCRETE BARRIER SINGLE FACE, REINFORCED TL-4, L-SHAPE 44 INCH
		Added note that 1" PJF is to be placed below the barrier base when on top of a drainage structure to note 8
	C3-11	CONCRETE BARRIER SINGLE FACE, REINFORCED TL-4, 44 INCH
		Added note that 1" PJF is to be placed below the barrier base when on top of a drainage structure to note 7.
	C4-12	CONCRETE SHOULDER BARRIER TRANSITION, TYPE V-SF
		Added note citing alignment of NAW with G-2N/3N gutter, on Concrete Shoulder Barrier
	C15-04	CONCRETE BARRIER SINGLE FACE. REINFORCED TL-5. T-SHAPE 44 INCH
		Added note that 1" PJF is to be placed below the barrier base when on top of a drainage structure to note 7.
	C16-04	CONCRETE BARRIER SINGLE FACE, REINFORCED TL-5, L-SHAPE 44 INCH
		Added note that 1" PJF is to be placed below the barrier base when on top of a drainage structure to note 7.
	C17-05	CONCRETE BARRIER SINGLE FACE, REINFORCED TL-5, 54 INCH
		Added note that 1" PJF is to be placed below the barrier base when on top of a drainage structure to note 7.



New Sheet

Retired Standard



1. 1'-O'' OFFSET FROM EDGE OF PAVED SHOULDER TO FACE OF RAIL IS TYPICAL FOR ALL INSTALLATIONS WITHOUT GUTTER EXCEPT AS OTHERWISE DETAILED IN THE PLAN DRAWINGS.

2. WHERE GUTTERS SUCH AS TYPE G-2, G-3 ARE REQUIRED IN FRONT OF THE GUARDRAIL, THE POSTS SHALL BE LOCATED 6" BEHIND THE GUTTER, OR AS OTHERWISE DETAILED IN THE PLANS. THE OFFSET FROM THE EDGE OF SHOULDER TO THE FACE OF THE GUARDRAIL SHALL BE AS SHOWN ON STANDARD B28.

3. THE 247/8" TYPICAL RAIL HEIGHT IS MEASURED FROM EXISTING SURFACE 1'-O" IN FRONT OF RAIL, OR FROM EDGE OF SHOULDER/EDGE OF GUTTER WHEN EDGE IS MORE THAN 1'-O" IN FRONT OF RAIL TO CENTER OF RAIL.

4. WHERE GUTTER IS PROPOSED WITH GUARDRAIL, A 6" MINIMUM THICKNESS OF AGGREGATE SHOULDERS SPECIAL, TYPE C SHALL BE PLACED BEHIND GUTTER. FOR GUARDRAIL WITHOUT GUTTER, AGGREGATE SHOULDER, TYPE C, OF THE SAME THICKNESS AS PAVED SHOULDER SHALL BE PLACED FROM THE EDGE OF PAVED SHOULDER SLOPING AWAY TO A 6" MIN. THICKNESS.

5. GUARDRAIL POSTS SHALL NOT BE ATTACHED TO ANY STRUCTURE.

6. PLASTIC BLOCK-OUTS SHALL NOT BE ALLOWED AS A SUBSTITUTE FOR WOOD BLOCK-OUTS ON NEW INSTALLATIONS.

7. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENTS (V:H).

8. UNDER NO CIRCUMSTANCES SHALL AN EXISTING GUARDRAIL, THAT WAS DESIGNED USING A PREVIOUS STANDARD, BE EXTENDED, ATTACHED TO OR MODIFIED IN ANYWAY FROM ITS ORIGINAL DESIGN. IF ANY MODIFICATION IS REQUIRED AND A PROPER BARRIER WARRANT HAS BEEN COMPLETED, THE ENTIRE BARRIER INSTALLATION SHALL BE COMPLETELY REMOVED AND REPLACED WITH A NEW SYSTEM THAT CONFORMS TO THE CURRENT STANDARD.

9. THE MGS GUARDRAIL SYSTEM WITH STANDARD POST SPACING HAS BEEN PERFORMANCE-TESTED FOR TL-3 CRASH WORTHINESS UNDER PROCEDURES DEFINED IN THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). OTHER VARIATIONS OF THE MGS GUARDRAIL SYSTEM HAVE BEEN PERFORMANCE-TESTED FOR TL-3 CRASH WORTHINESS UNDER PROCEDURES OUTLINED IN THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350. NO MODIFICATION TO THIS STANDARD DRAWING SHALL BE PERMITTED.

10. GUARDRAIL POSTS SHALL NOT BE INSTALLED IN CONCRETE OR ASPHALT PAVEMENT. WHEN NECESSARY USE LEAVE-OUT DETAIL ON SHEET 3 OF 4 OF THIS SERIES.

SHEET	1	OF	4
-------	---	----	---

Illinois Tollway

GALVANIZED STEEL PLATE BEAM GUARDRAIL

DATE	REVISIONS		
3-01-2024	REMOVE 9' POSTS AND REQUIRE FULL		
	WIDTH AGGREGATE SHOULDER		
3-01-2021	CHANGED DRAINAGE CONFLICTS TO		
	OMITTED POST, SHEET 4		
3-01-2020	MODIFIED NOTE 11 AND HEADING		
	OF TABLE 2B		

STANDARD C1-13





SHEET 3 OF 4



P Illinois	Illinois	
J Tollway	Tollway	

DATE	REVISIONS	CONCRETE
-01-2024	ADDED PJF BETWEEN BASE AND	
	DRAINAGE STRUCTURE	FACE,
-01-2023	REVISED REINF. AT DRAINAGE STR.	TL-4,
01-2022	REVISED CALLOUTS AND NOTES	
-01 - 2020	REVISED TO 44" HEIGHT & RENAMED	CT AND

Illinois Tollway

DATE	REVISIONS	
3-01-2024	ADDED NOTE, NAW WITH G-2N/3N SEE	
	STD B2.ADDED HOT POUR AT SECT D-D	
3-01-2022	REVISED NOTE 4	
3-01-2021	CLARIFIED SHLD. WIDTH AND	
	REVISED NOTES IN PLAN VIEW	

STANDARD C4-12

NOTES:

- 1. 2" DEEP CONTRACTION JOINTS SHALL BE DONE BY SAWING AND SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL, CONCRETE BARRIER BASE, AND CONCRETE GUTTER (SPECIAL). CONTRACTION JOINTS SHALL ALSO BE CONSTRUCTED AT BOTH SIDES OF ALL DRAINAGE STRUCTURES. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 30'-O". THE MINIMUM DISTANCE BETWEEN CONTRACTION JOINTS IN THE MEDIAN BARRIER WALL SHALL BE 2'-O". WHEN A DRAINAGE STRUCTURE FALLS WITHIN 2'-O" FROM AN EXPANSION JOINT (OR) CONTRACTION JOINT, THE NEAREST CONTRACTION JOINT SHALL BE OMITTED.
- 2. GUTTER PROFILE IN THE VICINITY OF SAG VERTICAL CURVES, ALONG FLAT GRADES AND AT THE MEETING OF PROPOSED AND EXISTING GUTTER, SHALL BE CAREFULLY CONTROLLED AND FIELD ADJUSTED IF NECESSARY TO ENSURE POSITIVE DRAINAGE AND AVOID PONDING.
- 3. IN AREAS OF RELATIVELY FLAT LONGITUDINAL PROFILE GRADES, THE VERTICAL DIMENSION TO THE TOP OF THE BARRIER CAN VARY (BY VARYING THE GUTTER SLOPE) FROM 43" TO 44.5" TO CREATE AN ACCEPTABLE LONGITUDINAL GRADE IN THE GUTTER.
- 4. REFERENCE PLAN SHEET FOR TYPE, SIZE AND NUMBER OF CONDUITS. PROVIDE $1^{1}\!/_{2}^{\prime\prime}$ (MIN.) CLEARANCE TO THE TOP OF CONDUIT AND 2 $^{\prime\prime}$ (MIN.) CLEARANCE TO THE BOTTOM OF THE CONDUIT.
- 5. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE KEYWAY OR THE #6 HOOK BAR v(E) BETWEEN THE BARRIER AND THE BASE. WHEN THE KEYWAY IS USED, THE RAISED KEYWAY SHALL BE POURED MONOLITHIC WITH THE BARRIER BASE AND THE BARRIER SHALL HAVE A MINIMUM UNINTERRUPTED SECTION LENGTH OF 70'. IF THE KEYWAY OR ITS EDGES BECOME DAMAGED, THEN HOOK BARS SHALL BE INSTALLED WITHIN THE DAMAGED SECTION.
- 6. ALL BARS SHALL BE INCLUDED IN THE COST OF THE VARIOUS BARRIER AND GUTTER ITEMS. REINFORCEMENT BARS DESIGNATED '(E)' SHALL BE EPOXY COATED. TIE BARS BETWEEN THE BARRIER AND BASE SHALL BE v(E) HOOK BARS ON 15'' CENTERS AND ALTERNATE LEFT AND RIGHT OF THE BARRIER CENTERLINE. TIE BARS BETWEEN EITHER THE VARIABLE HEIGHT BARRIER OR THE BASE AND THE GUTTER (SPECIAL) SHALL BE h(E) STRAIGHT BAR PAIRS ON 30'' CENTERS.
- 7. WHEN VARIABLE HEIGHT VERTICAL DIFFERENTIAL EXCEEDS 12" SEE STRUCTURAL PLANS FOR DETAILS.
- 8. GUTTER SLOPE SHALL BE 4.17% SLOPED TOWARD THE MEDIAN UNLESS OTHERWISE NOTED. GUTTER SLOPE IS REVERSE PITCHED WHEN THE SHOULDER/FLEX LANE DRAINS AWAY FROM THE GUTTER. TRANSITION GUTTER SLOPE OVER 30'-O''. GUTTER SLOPE TRANSITIONS ARE INCLUDED IN THE COST OF CONCRETE BASE AND/OR CONCRETE GUTTER (SPECIAL). SEE ROADWAY PLANS FOR LIMITS OF REVERSE PITCHED GUTTER AND TRANSITIONS.

' Illinois Tollway
UIIWAY

DATE	REVISIONS	CONCRETE BARRIER BASE,
8-28-2020	CHANGED TIE BAR DETAILS	AND CONCRETE BARRIER,
3-01-2020	CHANGED MAX, VERTICAL	DOUBLE EACE, 44 INCH AND
	DIFFERENTIAL TO 12"	VADIADLE UEICUT
3-01-2019	REVISED TO CONSTANT SLOPE ADDED	VARIADLE HEIGHI
	TIE BARS	
3-31-2016	REVISED NOTES	STANDAND CO-00

APPROVED BY Hovacs 07/01/2009 ON CURVED ROADWAY: THE EDGE OF THE TERMINAL IMPACT HEAD SHALL EDGE OF PAVED SHOULDER AS SHOWN IN TABLE 1. NO CURVED W-BEAM

WHEN NECESSARY USE LEAVE-OUT DETAIL SHOWN ON ILLINOIS TOLLWAY

		Illinois Tollway
DATE	REVISIONS	SHOULDER WIDENING FOR
3-01-2020	ADDED MOD. TO TABLE 1	TRAFETC RADDIER TERMINIAL
	& PLAN NOTE	I TRAFFIC DARRIER TERMINAL,
3-01-2019	REVISED NOTES FOR MASH	TYPE T1 (SPECIAL) TANGENT
3-31-2017	REVISED NOTES	
3-31-2016	COMBINED G-3 & G-2	
3-11-2015	REVISED NOTES	STANDARD CO-II

SHEET 1 OF 2

NOTES:

- 1. SEE ILLINOIS TOLLWAY STANDARD DRAWING C1 FOR DETAILS OF GUARDRAIL NOT SHOWN.
- 2. THE BEARING PLATE K SHALL BE HELD IN POSITION BY TWO 8D NAILS DRIVEN INTO THE POST AND BENT OVER THE TOP OF THE PLATE.
- 3. THE TRAFFIC BARRIER TERMINAL, TYPE T2 IS TYPICALLY UTILIZED FOR THE DEPARTING END SECTION OF A GALVANIZED STEEL PLATE BEAM GUARDRAIL BARRIER SYSTEM.
- 4. UNDER NO CIRCUMSTANCES SHALL AN EXISTING TERMINAL, THAT WAS DESIGNED USING A PREVIOUS STANDARD, BE ATTACHED TO OR MODIFIED IN ANYWAY FROM ITS ORIGINAL DESIGN. IF ANY MODIFICATION IS REQUIRED AND A PROPER BARRIER WARRANT HAS BEEN COMPLETED, THE ENTIRE BARRIER INSTALLATION SHALL BE COMPLETELY REMOVED AND REPLACED WITH A NEW SYSTEM THAT CONFORMS TO THE CURRENT STANDARD.
- 5. TRAFFIC BARRIER TERMINAL SHALL BE IN ACCORDANCE WITH THE ILLINOIS TOLLWAY'S DETAILS AND SPECIFICATIONS. NO MODIFICATIONS SHALL BE PERMITTED.
- 6. TERMINAL POSTS SHALL NOT BE INSTALLED IN CONCRETE OR ASPHALT PAVEMENT. WHEN NECESSARY USE LEAVE-OUT DETAIL PER ILLINOIS TOLLWAY STANDARD DRAWING C1.
- 7. WHERE GUTTER, TYPE G-2 OR GUTTER, TYPE G-3 ARE REQUIRED IN FRONT OF THE GUARDRAIL, THE POSTS SHALL BE LOCATED 6" BEHIND THE GUTTER, OR AS OTHERWISE DETAILED IN THE PLANS. THE OFFSET FROM THE EDGE OF SHOULDER TO THE FACE OF THE GUARDRAIL SHALL BE AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING B28.

SHEET 1 OF 3

Illinois ' Tollway

TRAFFIC BARRIER TERMINAL, TYPE T2

DATE REVISIONS 3-31-2017 REVISED SECT A-A SHOULDER SLOPE TO % 3-31-2016 REVISED SECTION A-A SHOULDER 3-11-2015 REVISED NOTES 3-31-2014 REVISED NOTES

STANDARD C7-08

SHEET 2 OF 3 SHEET 2 OF 3 Illinois TOLIWAY TRAFFIC BARRIER TERMINAL, TYPE T2

SEE SHEET 1 OF THIS SERIES FOR NOTES.

STANDARD C7-08

STANDARD C7-08

PAY LIMITS OF	
UTHER TYPE	A 🖛
*GUTTER FLOW LINE OMITTED FOF	R CLARITY
3'-1 ¹ /2''	
	?, ; -3
(*)	
SEE ILLINOIS TOLLWAY STANDARD E	DRAWING CI
TRAFFIC END OF GUARDRAIL	. TAPER
SPLICE PAY LIMITS OF	
OTHER TYPE	
CTC CHALL NOT DE INCTALLED IN	CONCRETE OF ACRUALT
WHEN NECESSARY USE LEAVE-OUT NNDARD DRAWING C1.	DETAIL PER ILLINOIS
STS TO BE INSTALLED PERPENDICL	JLAR TO BACK OF GUTTER.
L SYSTEM HAS BEEN PERFORMANCE	-TESTED FOR
NESS UNDER PROCEDURES DEFINED N TO THIS STANDARD DRAWING SHA	IN AASHTO MASH. NO LL BE PERMITTED.
RRIER CLEARANCE DISTANCE SHALL	CONFORM WITH TABLE 2 ON
IMENSION BEHIND POSTS 1-6, SHAL	I BE A MINIMUM OF 4''.
DIS PRESENT DRAINAGE STRUCTUR	RES SHALL NOT RE
ITHIN THE TERMINAL LIMITS, BUT ID DOWNSTREAM OF THE TERMINAL	SHALL BE INSTALLED AS REQUIRED.
	SHEET 1 OF 5
	Illinois Tollway
DATE REVISIONS	
3-01-2020 REVISED LENGTH OF THRIE BEAM REVISED LENGTH OF POSTS	IRAFFIC BARRIER TERMINAL, TYPE T6
CONSTANT-SLOPE CONCRETE BARRIER 3-31-2017 ADDED DRAINAGE STRUCTURE NOTE	
3-31-2016 REVISED SHOULDER SECTION	I STANDARD CA-IO

*GUTTER FLOW LINE IS OMITTED FOR CLARITY

SHEET 4 OF 5 Illinois Tollway TRAFFIC BARRIER TERMINAL, ΤΥΡΕ Τ6 TRANSITION NOTES AND SECTION A-A. STANDARD C9-10

POSTS 1-11 WOOD BLOCK-OUT DETAIL

TRANSITION SECTION (10 GAUGE RAIL ELEMENT) PARAPET WOOD BLOCK-OUT DETAIL

Paul Koracs 07/01/2009

APPROVED BY

POSTS 1-11 WOOD BLOCK-OUT DETAIL

POST 12 WOOD BLOCK-OUT DETAIL (SEE ILLINOIS TOLLWAY STANDARD DRAWING C1 FOR POST 13-16 BLOCKOUTS)

MODIFIED THICKNESS DETAIL WOOD BLOCK-OUTS A, B, C, & D

07/01/2009

APPROVED BY

Paul Koracs

WITH WASHER AND NUT. (DIRECTION REVERSED)

WOOD BLOCK-OUT D

* AFTER TIGHTENING, CUT THE BOLTS FLUSH WITH THE NUTS AND DAMAGE THE NUTS TO PREVENT THEM FROM LOOSENING.

WOOD BLOCK-OUT C

PLATES WITH CENTERED HOLES MAY BE SUBSTITUTED FOR THE PLATE SHOWN)

SEE ILLINOIS TOLLWAY STANDARD DRAWING C1 FOR DETAILS OF GUARDRAIL NOT

2. THE 247/8" TYPICAL RAIL HEIGHT IS MEASURED FROM EXISTING SURFACE 1'-O" IN FRONT OF RAIL, OR FROM EDGE OF SHOULDER/EDGE OF GUTTER WHEN EDGE

THE TRAFFIC BARRIER TERMINAL, TYPE TIO IS TYPICALLY UTILIZED TO CONNECT GALVANIZED STEEL PLATE BEAM GUARDRAIL TO THE DEPARTING END OF AN

UNDER NO CIRCUMSTANCES SHALL AN EXISTING TERMINAL. THAT WAS DESIGNED USING A PREVIOUS STANDARD, BE ATTACHED TO OR MODIFIED IN ANYWAY FROM ITS ORIGINAL DESIGN. IF ANY MODIFICATION IS REQUIRED AND A PROPER BARRIER WARRANT HAS BEEN COMPLETED, THE ENTIRE BARRIER INSTALLATION SHALL BE COMPLETELY REMOVED AND REPLACED WITH A NEW SYSTEM THAT

TRAFFIC BARRIER TERMINAL SHALL BE IN ACCORDANCE WITH THE ILLINOIS TOLLWAY'S DETAILS AND SPECIFICATIONS. NO MODIFICATIONS SHALL BE

6. WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND

7. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

9. WHEN WING WALL THICKNESS IS GREATER THAN 18" OR NOT ACCESSIBLE TO THE BACK SIDE, 4-3/1" BOLTS SHALL BE ANCHORED INTO DRILLED HOLES, USING A CHEMICAL ADHESIVE. MINIMUM EMBEDMENT SHALL BE 10". ANCHOR BOLTS WITH STANDARD WASHER SHALL BE USED. AFTER TIGHTENING, CUT THE ANCHOR BOLTS FLUSH WITH THE NUTS. AND DAMAGE THE NUTS TO PREVENT THEM FROM

Illino.	is
Tollwa	IV
	· ·

RRIER PE T10

DATE	REVISIONS	
3-31-2017	REV'D EL PARAPET & FL WING ANGLE]
3-31-2016	REVISED FLARED WING ANGLE.	TERMINAL TYPE T1
3-11-2015	REVISED NOTES.	
3-31-2014	REVISED NOTES.	
2-07-2012	REVISED BOLT NOTE, ADDED DETAIL	
	"A" AND REVISED NOTES.	STANDARD CII-01

<u>Plan 1</u>

AT BRIDGE PIERS (FOR W ≤4'-0'')

BARRIER WIDTH 21'-3'' 15'-0'' TAPER 30:1 3'-0'' F WALL OR FLATTER ò ▶ △ \sim ⊢ ► E - 🕂 F È¥. 7'-0'' BARRIER BASE SEE NOTE 2-TAPER 30:1 OR FLATTER-¢ BARRIER WALL AND BASE ¢ PIER

AT BRIDGE PIERS (FOR W >4'-0'')

NOTES:

- 1. 2" DEEP CONTRACTION JOINTS SHALL BE DONE BY SAWING AND SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL, CONCRETE BARRIER BASE, AND CONCRETE GUTTER (SPECIAL). CONTRACTION JOINTS SHALL ALSO BE CONSTRUCTED AT BOTH SIDES OF ALL DRAINAGE STRUCTURES. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 30'-O". THE MINIMUM DISTANCE BETWEEN CONTRACTION JOINTS IN THE MEDIAN BARRIER WALL SHALL BE 2'-O". WHEN A DRAINAGE STRUCTURE FALLS WITHIN 2'-O" FROM AN EXPANSION JOINT (OR) CONTRACTION JOINT, THE NEAREST CONTRACTION JOINT SHALL BE OMITTED.
- 2. GUTTER PROFILE IN THE VICINITY OF SAG VERTICAL CURVES, ALONG FLAT GRADES AND AT THE MEETING OF PROPOSED AND EXISTING GUTTER, SHALL BE CAREFULLY CONTROLLED AND FIELD ADJUSTED IF NECESSARY TO ENSURE POSITIVE DRAINAGE AND AVOID PONDING.
- 3. NON-STAINING GRAY ONE COMPONENT NON-SAG ELASTOMERIC GUN GRADE POLYURETHANE SEALANT MEETING THE REQUIREMENTS OF ASTM C-920, TYPE S, GRADE NS, CLASS 25, USE T.
- 4. HOOK BARS SHALL BE INCLUDED IN THE COST OF THE VARIOUS BARRIER AND GUTTER ITEMS AND SHALL BE EPOXY COATED. HOOK BARS BETWEEN THE BARRIER AND BASE SHALL BE ON 15" CENTERS AND ALTERNATE LEFT AND RIGHT OF THE BARRIER CENTERLINE. SEE STANDARD C5 FOR "HOOK BAR" DETAIL.

			TABLE OF	VARIABLES	
		W	L	V	G
		3'-0''	31'-3''	10'-0''	2'-0
	PLAN	3'-6''	31'-3''	10'-0''	1'-9'
		4'-0''	36'-3''	15'-0''	1′-6′
	01	4'-6''	46'-3''	10'-0''	1'-3'
	z	5'-0''	51'-3''	15'-0''	1'-0'
	۲A	5′-6′′	58′-9′′	22'-6''	9"
	ш	6'-0''	66'-3''	30'-0''	6″

		SHEET 1 OF 2
		Illinois Tollway
DATE	REVISIONS	CONCRETE MEDIAN BARRIER
DATE 3-01-2022	REVISIONS REVISED SECTION A-A DIMENSIONS	CONCRETE MEDIAN BARRIER
DATE 3-01-2022 3-01-2021	REVISIONS REVISED SECTION A-A DIMENSIONS REVISED TO HOOK BARS	CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF
DATE 3-01-2022 3-01-2021 3-01-2019	REVISIONS REVISED SECTION A-A DIMENSIONS REVISED TO HOOK BARS REVISED TO CONSTANT SLOPE AT 44"	CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF AT BRIDGE PIERS
DATE 3-01-2022 3-01-2021 3-01-2019 3-31-2016	REVISIONS REVISED SECTION A-A DIMENSIONS REVISED TO HOOK BARS REVISED TO CONSTANT SLOPE AT 44" MODIFIED NOTES	CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF AT BRIDGE PIERS
DATE 3-01-2022 3-01-2021 3-01-2019 3-31-2016 3-11-2015	REVISIONS REVISED SECTION A-A DIMENSIONS REVISED TO HOOK BARS REVISED TO CONSTANT SLOPE AT 44" MODIFIED NOTES MODIFIED MEDIAN BARRIER TRANSITION	CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF AT BRIDGE PIERS

TABLE A						
Wc	L (MIN.)					
24''	20'-0''					
24′′<₩c<35′′	25'-0''					
35′′ <wc<43′′< td=""><td>35'-0''</td></wc<43′′<>	35'-0''					
43''<\c<51''	45'-0''					
51''<\c<59''	55'-0''					
59''<\c<67''	65'-0''					
67''<\c<72''	75'-0''					

- SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).
- 2. ENERGY ATTENUATOR AND PAD SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S DETAILS AND SPECIFICATIONS.
- 3. 2" DEEP CONTRACTION JOINTS SHALL BE DONE BY SAWING AND SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL, AND CONCRETE BARRIER BASE. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 30'-O". THE MINIMUM DISTANCE BETWEEN CONTRACTION JOINTS IN THE MEDIAN BARRIER WALL SHALL BE 2'-O".

A Illinois		
	nois	
Tollway	vay	To I

CONCRETE MEDIAN BARRIER TRANSITION, TYPE V AT BRIDGE PIERS

/	EDGE OF AGGREGATE SHOULDER	
	EDGE OF PAVEMENT	

STANDARD C14-05

P	F Illinois Tollway
	lonnay

DATE	REVISIONS	CONCRETE BARRIER SINGLE
-01-2024	ADDED PJF BETWEEN BASE AND	
	DRAINAGE STRUCTURES	FACE, REINFURCED IL-5,
5-01-2023	REVISED NOTE #1 AND REINF. DETAIL	T-SHAPE 44 INCH
	AT DRAINAGE STRUCTURES	
8-01-2022	REVISED NOTES & CALLOUTS	
5-01-2020	REVISED NAME & REINFORCING	STANDARD CIS-04

DATE	REVISIONS	CONCRETE BARRIER SINGLE
-01-2024	ADDED PJF BETWEEN BASE AND	
	DRAINAGE STRUCTURES	FACE, REINFORCED IL-S,
-01-2023	REVISED NOTE #1 AND REINF.	L-SHAPE 44 INCH
	DETAIL AT DRAINAGE STRUCTURES	
-01-2022	REVISED NOTES & CALLOUTS	STANDARD C16-04
		STANDARD CIG-04

	JOIN	ΤS	S⊦	IALL	ΒE	С	ONST	RUCT	ΕD	ΙN	BARR	IER	WΑ	LL	ΑT	А	
JO	INT	SP	AC	ING	OF	90)'-0''	AND	А	MIN	IIMUM	JOI	ΝT	SP	ACI	١G	OF
E	SEC	CTI(ЛС	B-B	FO	R	DETA	ILS.									

DATE	REVISIONS	
3-01-2024	ADDED PJF BETWEEN BASE AND	1
	DRAINAGE STRUCTURE	
3-01-2023	REVISED REINF. DETAIL AT DRN.	
	STRUCTURE. REMOVED NOTE 9	L
3-01-2022	REVISED NOTE 4.	Γ
3-01-2021	REVISED REBAR LENGTH, ADDED NOTE	L

STANDARD C17-05

" Illinois	
Tollway	