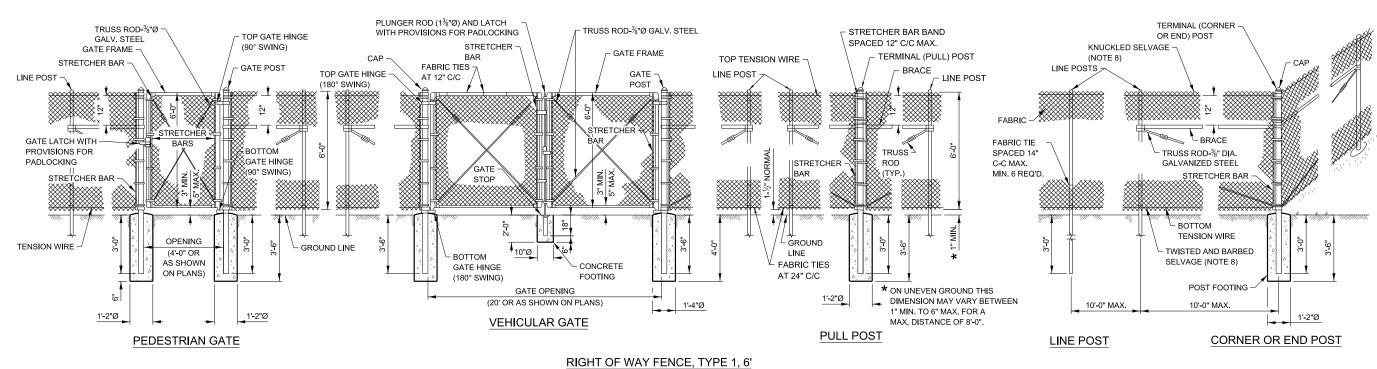
Illinois Tollway Standard Drawing Revisions

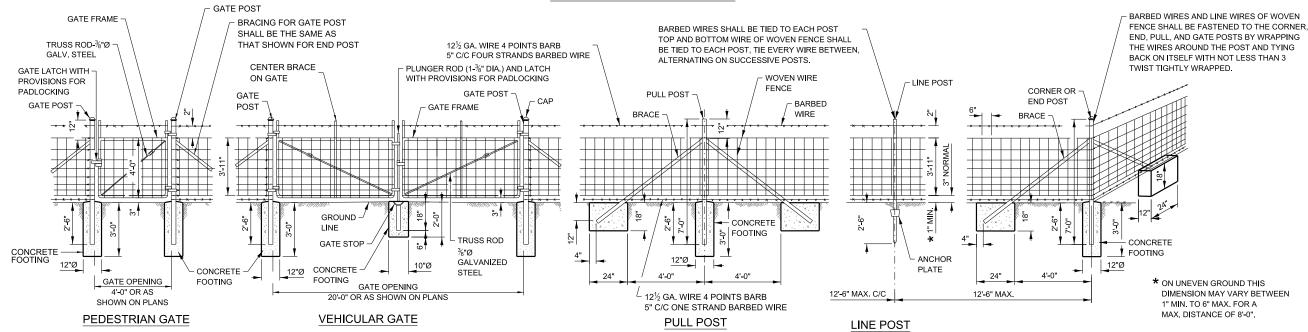
Section D	Roadway Ap	purtenances	
	Standard	Modification Summary Effecti	ve: 03-01-2025
		This set of standard drawings has been converted from	v8i to OpenRoads.
	D4-10	ROADWAY DELINEATORS AND REFLECTORS	
	Sheet 1	Post Mounted Delineator spacing along tangent ramp, reduce feet. Table A, Reflector Spacing on Ramp – Curves, reduced with the MUTCD. Red reflectors installed only on ramps that	spacing to be consistent
	Sheet 2	Increased delineator height from 4 feet to top of post, to 4 feet, to lowest reflector to consistent with the MUTCD. Double back red reflectors only on specified ramps.	
	Sheet 3	Increased the reflector mounting height on Temporary Concre Wall, Barrier or Parapet details as identified in the MUTCD.	ete Barrier and Vertical
	D5-11	PERMANENT PAVEMENT MARKING MAINLINE	
		Note 1 clarified the diagonal lines required where the shoulde standard, except on shoulders less than 4 feet. Added referer shoulder taper plan.	
	D10-04	TEMPORARY CONCRETE BARRIER WITH CROSS-BOLT CONNECTION	
	Sheet 1	Added note in Cross-Bolt Connection Hardware detail, stating hot–dipped zinc coated conforming to ASTM F2329.	g that hardware shall be

New Sheet

Retired Standard







RIGHT OF WAY FENCE, TYPE 2, 4'

CORNER OR END POST

GENERAL NOTES

- ON STRAIGHT RUNS OF FENCE, PULL POSTS SHALL BE USED AT 500' CENTERS FOR TYPE 1 AND 330' CENTERS FOR TYPE 2.
- 2. WHERE R.O.W. FENCE FOLLOWS R.O.W. LINE IT SHALL BE INSTALLED PARALLEL TO AND 6" INSIDE THE R.O.W. LINE ON ILLINOIS TOLLWAY PROPERTY.
- LINE POSTS AND BRACES SHALL BE ON ILLINOIS TOLLWAY SIDE OF FENCE FABRIC.
- 4. WHEN THE TENSION OF THE FENCE TENDS TO PULL THE POSTS FROM THE GROUND, THE LINE POSTS SHALL BE ANCHORED WITH ANCHORAGE SPECIFIED FOR CORNER POSTS.
- WHEN THE FENCE LINE HAS A CHANGE IN DIRECTION OF 10° OR MORE, A CORNER POST SHALL BE PLACED AT THE POINT OF CHANGE. WHERE THE ANGLE OF CHANGE IS LESS THAN 10° A PULL POST SHALL BE USED.
- 6. WHERE GRADE LINE HAS A CHANGE IN SLOPE OF 10° OR MORE, A CORNER POST WITH BRACING AS REQUIRED SHALL BE PLACED. WHERE ANGLE IS LESS THAN 10° LINE POST MAY BE USED.
- WHERE RIGHT-OF-WAY FENCE, TYPE 1 IS USED, THE FABRIC SHALL BE KNUCKLED SELVAGE ON TOP AND TWISTED AND BARBED SELVAGE ON BOTTOM.
- 8. PLACEMENT OF BRACED END POSTS OR CORNER POSTS



	REVISIONS	
DATE	DESCRIPTION	
03-01-2020	ADDED GATE TO HEADWALL DETAIL	RIG
03-31-2017	REVISED NOTES	RIG
03-11-2015	REVISED NOTES	
03-31-2014	REVISED ROLLED FORM SECTIONS	
11-01-2012	REVISED NOTES	VERSION:

RIGHT OF WAY FENCE

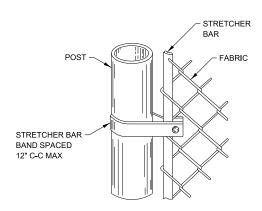
D1-06

1 of 3

Paul ovacs 03/01/2020

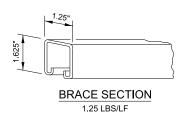
APPROVED BY

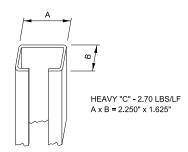
WITHIN THE CLEAR ZONE SHALL BE AVOIDED.



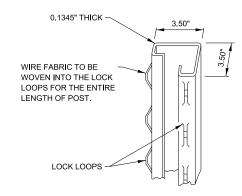
STRETCHER BARS SHALL BE GALVANIZED FLAT STEEL BAR NOT LESS THAN ¼" x ¾" AND THE STRETCHER BAR BANDS SHALL BE GALVANIZED FLAT STEEL BAR NOT LESS THAN ¾"x 1" WITH A ¾" GALVANIZED

METHOD OF FASTENING STRETCHER BAR TO POST



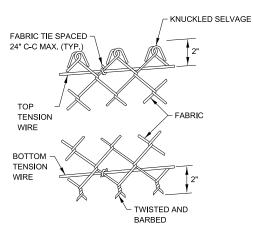


LINE POST "C" SECTION

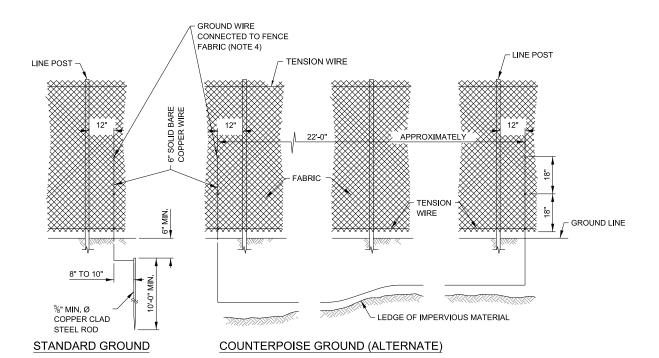


TERMINAL POST SECTION 5.10 LBS/LF

DETAILS OF ROLL FORMED SECTIONS



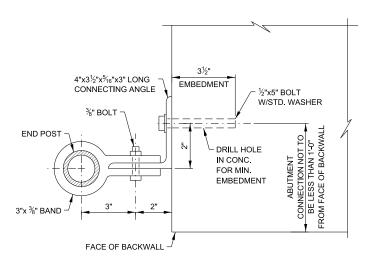
METHOD OF TYING FABRIC TO TENSION WIRES



NOTES FOR STANDARD AND COUNTERPOISE GROUND:

- THE INTERVALS FOR GROUNDING CONTINUOUS FENCING SHALL NOT EXCEED 500 FEET IN URBAN AREAS AND 1000 FEET IN RURAL AREAS. FENCE ADJACENT TO A GATE SHALL BE GROUNDED A MAXIMUM DISTANCE 100 FEET EACH SIDE OF THE GATE.
- FENCE CROSSING UNDER A POWER LINE SHALL BE GROUNDED, ONCE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE AT 25 TO 50 FEET AWAY. FENCE LOCATED DIRECTLY UNDER A TELEPHONE WIRE OR CABLE CROSSING SHALL HAVE A SINGLE GROUND.
- 3. COUNTERPOISE GROUNDS SHALL BE USED AT LOCATIONS WHERE GROUND RODS CAN NOT BE DRIVEN DUE TO IMPERVIOUS EARTH MATERIALS.
- 4. THE GROUND WIRES SHALL BE CONNECTED TO FENCE FABRIC AND GROUND ROD BY STAINLESS STEEL BOLTS AND WASHERS. THE LOWER CONNECTION OF THE GROUND WIRE SHALL BE MADE TO THE BOTTOM TENSION WIRE.

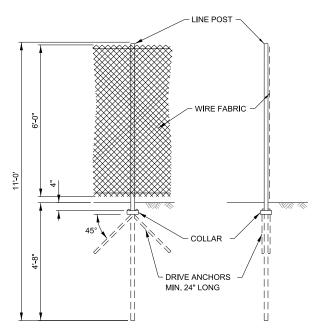
ELECTRICAL GROUNDING DETAILS



ABUTMENT CONNECTION DETAIL

NOTES FOR ABUTMENT CONNECTION:

1. WHEN ROLL FORMED SECTION IS USED IN LIEU OF PIPE AS END POST, THE POST SHALL BE BOLTED DIRECTLY TO THE ABUTMENT WALL WITH $2\frac{1}{2}$ " x 5" BOLTS WITH STANDARD WASHERS MEETING THE APPROVAL OF THE ENGINEER.



ALTERNATE DRIVEN LINE POST ANCHORAGE WITH OR WITHOUT DRIVE ANCHORS

NOTE FOR FENCE POST:

ALTERNATE DRIVEN LINE POST ANCHORAGE IS OPTIONAL. DRIVEN LINE POST ANCHORAGE WITHOUT DRIVE ANCHORS MAY BE USED IN AVERAGE TO GOOD SOIL CONDITIONS. WHEN SOIL IS WEAKER (Qu < 1.25 TONS/ SQ. FT.) AND STABILITY OF THE POST IS QUESTIONABLE, DRIVE ANCHORS SHALL BE USED. TYPES, SHAPES, DIMENSIONS AND COATING REQUIREMENTS OF DRIVE ANCHORS (ANCHOR BLADES AND COLLARS) FOR DIFFERENT TYPE OF POSTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.



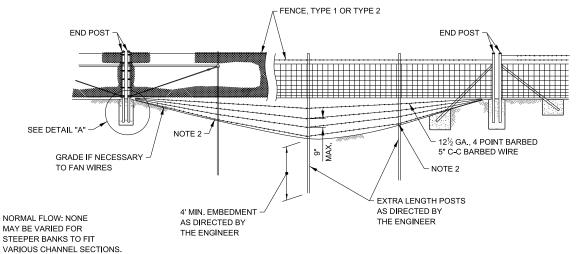
RIGHT OF WAY FENCE

2 OF 3

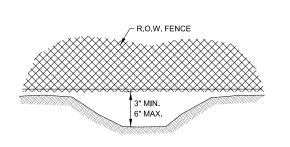
version: standard: 2020-03 D1-06

CHIEF ENGINEERING OFFICER 03/01/2020

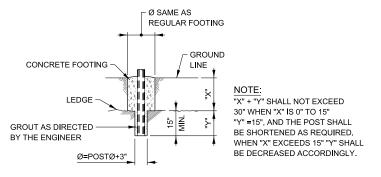
APPROVED BY



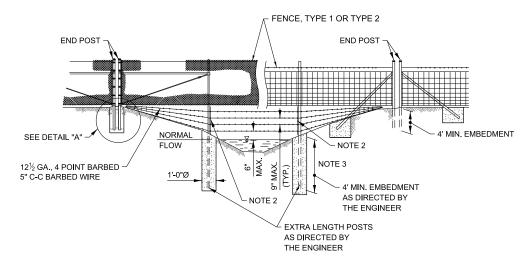
STREAM CROSSING, TYPE 1



FENCE INSTALLATION OVER DITCH



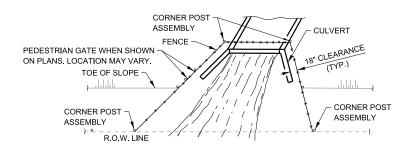
FOOTING FOR POST WHEN **ROCK LEDGE IS ENCOUNTERED**



STREAM CROSSING, TYPE 2

NOTES FOR STREAM CROSSING TYPE 1 AND TYPE 2:

- THESE INSTALLATION CONDITIONS ARE TYPICAL AND ARE NOT TO BE CONSTRUED AS REPRESENTATIVE OF ALL CONDITIONS WHICH WILL BE ENCOUNTERED. CONSTRUCTION WILL BE VARIED AS REQUIRED OR DIRECTED TO MEET FIELD CONDITIONS.
- FOR STREAM CROSSING OF THE TYPE REQUIRED THE BOTTOM BARBED WIRE SHALL BE ANCHORED TO CONCRETE FOOTING OR TO HOLES DRILLED IN POSTS, AND INTERMEDIATE WIRES SHALL BE TIED TO THE BOTTOM WIRE AND TO POSTS IN AN EVENLY SPACED FASHION TO PREVENT SLIPPAGE.
- CONCRETE AND FITTINGS FOR ALL TYPES OF FENCE SHALL BE AS DETAILED FOR SIMILAR CONDITIONS PER STANDARD DRAWING.



PLAN AT HEADWALL

TOP OF SLOPE CORNER POST PEDESTRIAN GATE WHEN ASSEMBLY SHOWN ON PLANS LOCATION MAY VARY. **ELEVATION**

NOTES FOR INSTALLATION AROUND HEADWALL:

- THIS TYPE OF INSTALLATION IS TO BE USED ONLY WHEN SPECIFICALLY CALLED FOR IN THE CONTRACT PLANS.
- WHEN THE WIDTH OF THE CULVERT MAKES IT NECESSARY TO ANCHOR A POST TO THE TOP OF THE CULVERT, A CAST IRON SHOE OR OTHER DEVICE APPROVED BY THE ENGINEER SHALL BE USED.

INSTALLATION AROUND HEADWALL



RIGHT OF WAY FENCE

D1-06 3 OF 3

DETAIL A

THE FENCE FABRIC SHALL BE REPLACED BY BARBED WIRE STRANDS AT 12" MAXIMUM CENTERS BETWEEN

- END POST

4" MAX.

APPROVED BY Lovacs 03/01/2020

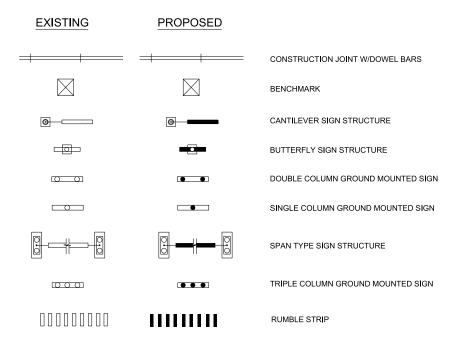
END POST NOT

CENTERED IN

THE END POSTS.

CONCRETE

SURVEY AND ROADWAY ITEMS



DRAINAGE AND UTILITY ITEMS; ROADWAY LIGHTING AND SIGNS

EXISTING	PROPOSED	
		BOX CULVERT WITH HEADWALL
		- CABLE IN DUCT W/O GROUND
		LOW POINT
P		OVERHEAD ELECTRICAL
		OVERHEAD TELEPHONE
		PIPE CULVERT
		LAKE OR POND
		QUARRY
		STREAM
* * * * * *		SWAMP
	$\langle A \rangle$	CABLE OR CONDUIT TAG
[Ē]	E	ELECTRICAL MANHOLE
[] LD	LD	LIGHT-DUTY BOX
$\circ -\!$	•————	ROADWAY LUMINAIRE
		STEEL TOWER
[<u>T</u>]	T	TELEPHONE MANHOLE
		UNDERPASS LUMINAIRE
0		WATER POINT
[<u>W</u>]	W	WATERMAIN VALVE VAULT
○ ^w	● W	WATER WELL
\otimes	•	WOOD POLE



SHEET: 1 OF 4

		_		
REVISIONS				
DATE	DESCRIPTION			
03-31-2016	UPDATED DITCH CHECK SYMBOL	CVME	OLS AND PATTER	NIC
03-11-2015	ADDED NEW SYMBOL	STIVIE	OLS AND PATTER	110
11-01-2012	ADDED NEW SYMBOLS			
07-01-2009	REVISED SYMBOLS & PATTERNS			
		VERSION:	STANDARD:	SHEE
		2016-03	D2-04	1 OF

APPROVED BY:

03/31/2016

EROSION & SEDIMENT CONTROL, LANDSCAPING ITEMS

EXISTING PROPOSED CLEARING & GRADING LIMITS (LIMITS OF CONSTRUCTION) DIVERSION DIKE \longrightarrow DRAINAGE DIVIDE DRAINAGE PATH SEDIMENT BASIN AGGREGATE BERM CULVERT INLET PROTECTION-STONE CULVERT INLET PROTECTION-FENCE DB DEWATERING BASIN FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE FILTER FABRIC INLET PROTECTION, COVER TYPE FLOTATION BOOM — FB —— FB — (IC) INITIAL CONSTRUCTION ITEM RECTANGULAR INLET PROTECTION TEMPORARY ROCK CHECK DAM TEMPORARY DITCH CHECK SEDIMENT BASIN SILT FENCE _____SSF____ SUPER SILT FENCE **____** STABILIZED CONSTRUCTION ENTRANCE STONE OUTLET STRUCTURE STREAM DIVERSION TEMPORARY PIPE SLOPE DRAIN ----TEMPORARY RIPRAP -√-TS -√-TEMPORARY SWALE TREES AND STUMP TREE PROTECTION TEMPORARY STREAM CROSSING

PROPOSED

EROSION CONTROL BLANKET



OVER SEEDING CLASS B1



OVER SEEDING CLASS B2



SEEDING CLASS A1



SEEDING CLASS A2



SEEDING CLASS A3



SEEDING CLASS A4



SEEDING CLASS A5



SEEDING CLASS A6



SEEDING CLASS D1



SODDING (SALT TOLERANT)



TEMPORARY GROUND COVER



TURF REINFORCEMENT MAT



2 OF 4

SYMBOLS AND PATTERNS

2016-03 D2-04

03/31/2016

APPROVED BY:

Paul Koracs

ELECTRICAL AND MECHANICAL ITEMS

				EXISTING	PROPOSED	
	HOME RUN TO PANEL AS NOTED	6	STANDBY GENERATOR	A	A	COMPRESSED AIR (A)
⊗	INDICATES CIRCUIT TURNING DOWN	 A > _P	PANEL CIRCUIT BREAKER	AR	AR	ACID RESISTANT WASTE OR DRAIN
©	INDICATES CIRCUIT TURNING UP			ADV	ADV	
	GROUND ROD	С	MECHANICALLY HELD LIGHTING COIL	ARV	ARV	ACID RESISTANT VENT
	GROUNDING TRIAD	CR	CONTROL RELAY COIL	DS	——— DS ———	STORM SEWER (DOWNSPOUT)
		\$	SINGLE-POLE SWITCH	G	G	GAS LINE
y/v	TRANSFORMER	\bigcirc	DUPLEX RECEPTACLE	——— нд ———	——— НG ———	HOT GAS BYPASS LINE (HG)
	MOTOR	C	4P, 4W, WEATHERPROOF RECEPTACLE WITH SPRING DOOR, BACK BOX, & ANGLE ADAPTER	HHWR	——— HHWR ————	HEATING HOT WATER RETURN (HHWR)
ATSAAP,W	AUTOMATIC TRANSFER SWITCH (ATS)	B	4P, 4W, WEATHERPROOF RECEPTACLE WITH SPRING DOOR & BACK BOX	——————————————————————————————————————	——— ннws ———	HEATING HOT WATER SUPPLY (HHWS)
JB OR (J)	JUNCTION BOX	GFI	DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION	IA	IA	DRY COMPRESSED AIR (IA-INSTRUMENT AIR)
		A	CONTROL BUILDING LIGHTING 1' X 4' INDUSTRIAL FLUORESCENT FIXTURE, PORCELAIN REFLECTOR, ELECTRONIC BALLAST.	P	P	PROCESS WATER ("P" WATER) LINE
A	DISCONNECT SWITCH	В	COMPACT WALL-MOUNTED LOW WATTAGE HPS FIXTURE WITH WIRE GUARD & SINGLE FACTORY INSTALLED FUSE	PW	PW	PROTECTED WATER OR PLANT WATER (PW)
A	CIRCUIT BREAKER	c	EMERGENCY LIGHT UNIT WITH 2-6 VOLT, 12 WATT SEALED BEAM HALOGEN LAMPS WITH WALL MOUNTING BRACKET	RD	RD	REFRIGERANT DISCHARGE LINE (RD)
A	MANUAL TRANSFER SWITCH	D	LANE LIGHTING - HEAVY DUTY ALUMINUM HOUSING WITH ENCLOSED REFLECTOR & TEMPERED GLASS LENS W/AUTO REGULATOR BALLAST. ASYMMETRIC PATTERN	RS	RS	REFRIGERANT SUCTION LINE (RS)
sw.		<u></u> -	WIRE	v	V	VENT LINE (V)
WH	SELF CONTAINED UTILITY METERING	<u> </u>	CONDUIT			

NOTE:

ALL SYMBOLS AND PATTERNS ON THIS DRAWING ARE PROPOSED UNLESS OTHERWISE NOTED.



SYMBOLS AND PATTERNS

SHEET: 3 OF 4

APPROVED BY:

ELECTRICAL AND MECHANICAL ITEMS

					
CFM OR → CFM	QUANTITY AND DIRECTION OF THE AIR FLOW	OR C	SPLITTER DAMPER	⋈	GLOBE VALVE
v				ا معر ا	BUTTERFLY VALVE
X	DUCT SIZE (FIRST FIGURE SIZE OF SHOWN, SECOND FIGURE SIZE OF SIDE NOT SHOWN.)	B 	PLUG VALVE WITH MEMORY STOP (BALANCING)	2	CHECK VALVE
	OF SIDE NOT SHOWN.)	×	PLUG VALVE	₩ ∞	ANGLE GATE VALVE
	SUPPLY DUCT SECTION	9	SOLENOID VALVE	\triangleright	CONCENTRIC REDUCER
		×	TEMPERATURE CONTROL VALVE		ECCENTRIC REDUCER
OR	RETURN OR EXHAUST DUCT SECTION	Š	THREE-WAY TEMPERATURE CONTROL VALVE DIAPHRAGM	1 1	ORIFICE FLANGE
OR	DUCT DROPS IN THE		THREE-WAY TEMPERATURE CONTROL VALVE TOP VIEW		CROSSOVER
<u> b </u>	DIRECTION OF FLOW	\triangleright	PRESSURE REPUBLICATIVE	=	PIPE GUIDE
	DUCT RISES IN THE		PRESSURE REDUCING VALVE (NOS = INITIAL AND FINAL PRESSURE - PSIG)		EXPANSION JOINT (SLIP TYPE)
OR R R R	DIRECTION OF FLOW	PRV	AIR PRESSURE REDUCING STATION (NO. CORRESPONDS WITH AIR PRESSURE		EXPANSION JOINT (BELLOWS TYPE)
CC OR CE	TURNING VANES		REDUCER SCHEDULE)		AIR ELIMINATOR (AIR VENT)
		₩ %	SAFETY VALVE (NOS. = PRESSURE SETTING - PSIG)]	PIPE CAP
CEM		~ a		+	STRAIGHT CROSS
CFM OR → CFM	8" THROAT DIAMETER CEILING DIFFUSER; AIR FLOW – 100 CFM		FLOAT OPERATED VALVE	고	00% EL DOW
	DIFFUSER; AIR FLOW – 100 CFM	_ oc_		P	90° ELBOW
			QUICK COUPLING (QC)	\ominus	90° ELBOW TURNED DOWN
OR	BALANCING OR VOLUME DAMPER	UH ☐ -/- -	HORIZONTAL UNIT HEATER (NO. CORRESPONDS WITH UNIT HEATER SCHEDULE)	Ю	90° ELBOW TURNED UP
(M)			*	Ą	SIDE OUTLET ELBOW TURNED DOWN
OR , M	MOTOR OPERATED DAMPER	\(\sigma\)		⊬ Q	AIDE AUT ET EL DAN TUDNED UD
•		() UH	VERTICAL UNIT HEATER (NO. CORRESPONDS WITH UNIT HEATER SCHEDULE)	Ý	SIDE OUTLET ELBOW TURNED UP
	FLEXIBLE DUCT	N		⊢ →	LATERAL
				T	TEE
	FIRE DAMPER	UH }	CABINET TYPE UNIT HEATER (NO. CORRESPONDS WITH UNIT HEATER SCHEDULE)		TEE OUTLET UP
	SOUND ATTENUATOR	•		\mapsto	TEE OUTLET DOWN
	See No. 11 Eller 11 el 1	1	THERMOSTAT OR ROOM TEMPERATURE SENSOR	ıļı	UNION
	ZONE DAMPER				STRAINER
	ZONE DAWI EN	\bowtie	GATE VALVE	∀	PIPE ANCHOR
	FLEXIBLE CONNECTION AT	Q.	FLOW SWITCH		THERMOMETER (NOS. = RANGE IN DEGREES FAHRENHEIT)
	FAN OR EQUIPMENT	Т		T	
_		₹ _ <u>GP</u> M	VENTURI FLOW METER AND FLOW TO BE INDICATED	Ø X	PRESSURE, VACUUM OR COMPOUND GAUGE
727	EXTRACTOR	•	CONNECTION BETWEEN NEW AND EXISTING	,	

NOTE:

ALL SYMBOLS AND PATTERNS ON THIS DRAWING ARE PROPOSED UNLESS OTHERWISE NOTED.



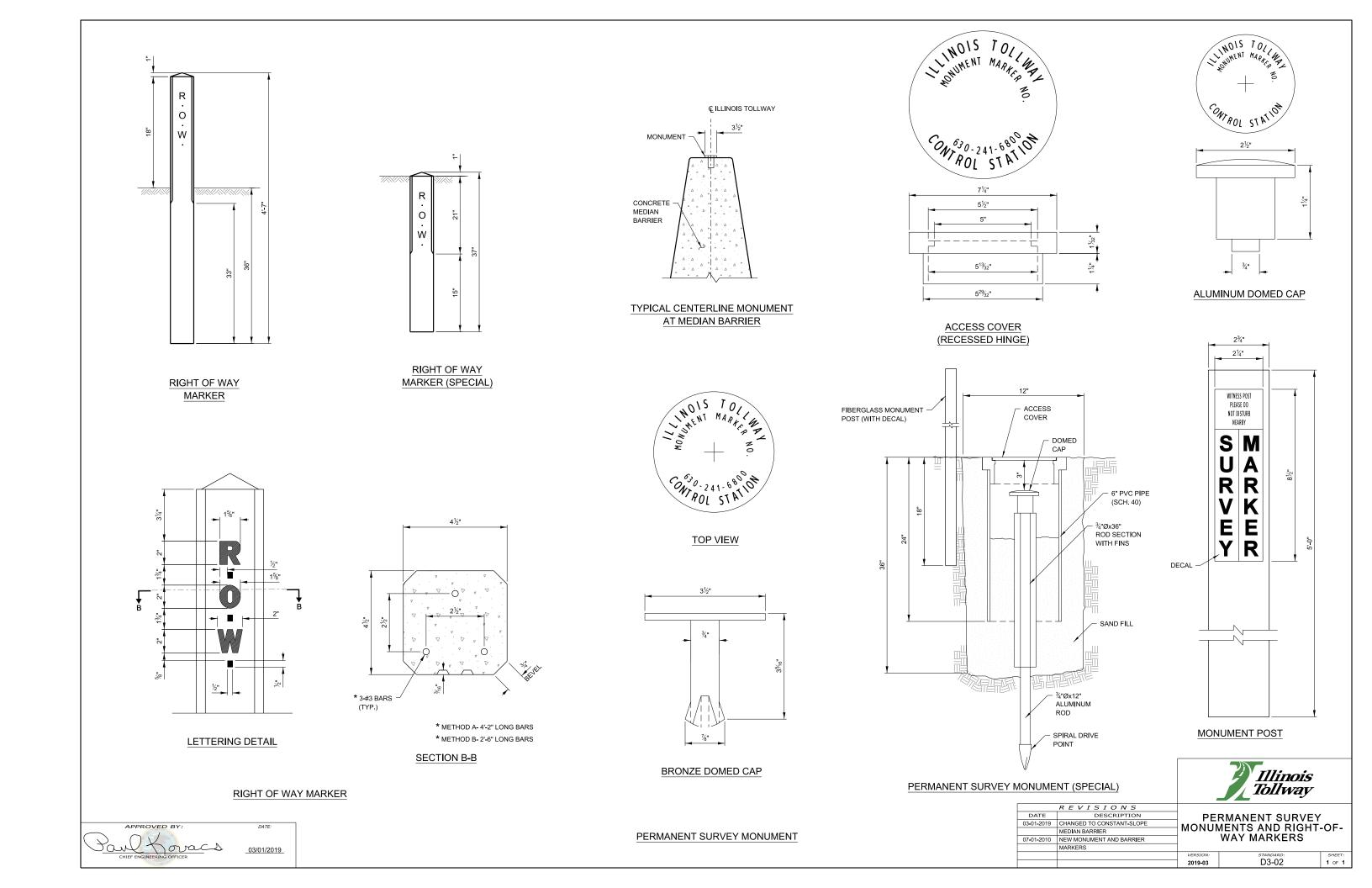
SYMBOLS AND	PATTERNS

VERSION: 2016-03 D2-04



APPROVED BY: Paul Foracs

SHEET:



PERMANENT DELINEATION SPACING

		MAINLINE		RA	MP
	REFLECTORS	TANGENT	CURVE	TANGENT	CURVE
*	GUARDRAIL	100'	100'	100'	100' (R >= 1,050') 50' (R < 1,050')
*	BARRIER WALL (DOUBLE FACE)	100'	100'	100'	100' (R >= 1,050') 50' (R < 1,050')
*	BARRIER WALL (SINGLE FACE)	100'	100'	100'	100' (R >= 1,050') 50' (R < 1,050')
	SHOULDER NARROWING	3 @ 15'	3 @ 15'	3 @ 15'	3 @ 15'
	BRIDGE APPROACHES	3 @ 15'	3 @ 15'	3 @ 15'	3 @ 15'
*	BRIDGE OR RETAINING WALL PARAPET	50'	50'	50'	50'
*	CRASHWORTHY NOISE ABATEMENT WALL OR RETAINING WALL AT EDGE OF SHOULDER	100'	100'	100'	100' (R >= 1,050') 50' (R < 1,050')

ROADWAY DELINEATORS	MAINLINE		RAMP	
	TANGENT	CURVE	TANGENT	CURVE
POST MOUNTED DELINEATOR	200'	200'	100' **	TABLE A **
POST MOUNTED DELINEATOR (RAMP TAPERS AND TANGENTS)	100' **	100' **	NA	NA

	TEMPORARY DELINEATION SPACING					
TANGENT REVERSE CU				SHIFT	TAPER	
	TEMPORARY CONCRETE BARRIER	50'	25'	25'	25'	

- WHEN ADJACENT SHOULDER IS USED AS A TRAVELED LANE, USE SPACING REQUIREMENTS AS SHOWN FOR TEMPORARY DELINEATION.
- IN ADDITION TO CRYSTAL/AMBER REFLECTORS, RED REFLECTORS SHALL BE INSTALLED (FACING OPPOSITE TRAFFIC FLOW) ONLY ALONG TOLLWAY EXIT RAMPS TO CROSSROADS WHERE THE EXIT RAMP TERMINAL IS LOCATED AT A STOP CONTROLLED, SIGNALIZED OR ROUNDABOUT INTERSECTION. THE LOCATIONS OF THE RED REFLECTORS SHALL BE IN ACCORDANCE WITH THE INTERCHANGE RAMP PLACEMENT PLAN ON SHEET 2 OF THIS STANDARD.

TABLE A		
REFLECTOR SPACING ON RAMP - CURVES		
RADIUS OF CURVE (FT.)	SPACING ALONG CURVE (FT.)	
LESS THAN 140	25	
140-249	30	
250-349	40	
350-699	50	
700-1200	75	
MORE THAN 1200	100	

GENERAL NOTES:

- 1. EMERGENCY TURNAROUNDS DELINEATION THE FOLLOWING DELINEATION SHOULD BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT APPROACHING EMERGENCY TURNAROUNDS.
 - ONE-HALF OF A MILE IN ADVANCE OF THE EMERGENCY TURNAROUNDS ONE WHITE REFLECTOR UNIT OVER THREE AMBER REFLECTOR UNITS.
 - ONE-FOURTH OF A MILE IN ADVANCE OF THE EMERGENCY TURNAROUNDS ONE WHITE REFLECTOR UNIT OVER TWO AMBER REFLECTOR UNITS.
 - AT A POINT NEAR THE INTERSECTION OF THE EDGE OF THE LEFT SHOULDER AND NEAR EDGE OF THE EMERGENCY TURNAROUNDS ONE WHITE REFLECTOR UNIT OVER ONE AMBER REFLECTOR UNIT.
- 2. ALL REFLECTORS FACING OPPOSITE TRAFFIC FLOW SHALL BE RED.

NOTES FOR ROADWAY DELINEATORS, POST MOUNTED INSTALLATION:

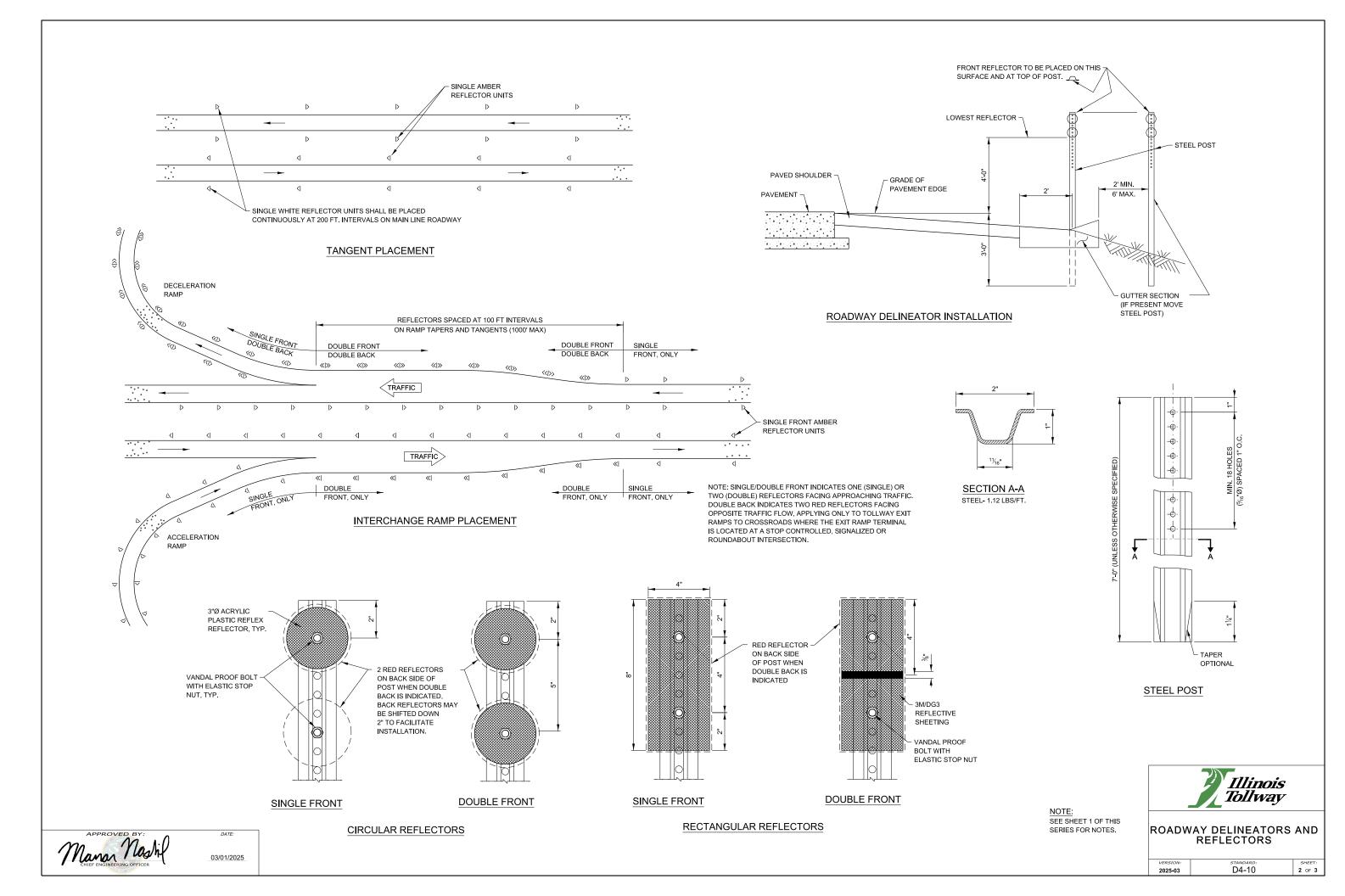
- 1. A. MAINLINE-SINGLE WHITE REFLECTOR UNITS SHALL BE PLACED CONTINUOUSLY ON THE RIGHT AND SINGLE AMBER REFLECTOR UNITS SHALL BE PLACED ON THE LEFT ON MAIN LINE SECTIONS WITHOUT BARRIER WALL.
 - B. RAMPS-SINGLE REFLECTOR UNITS SHALL BE PLACED ON THE OUTSIDE OF ALL CURVED SECTIONS OF RAMPS. SINGLE WHITE SHALL BE PLACED ON THE RIGHT SIDE AND AMBER ON THE LEFT SIDE. THE DELINEATORS SHALL BE OVERLAPPED FOR A SHORT DISTANCE TO CLEARLY INDICATE WHERE DELINEATION ON ONE SIDE OF THE RAMP ENDS AND DELINEATION ON THE OTHER SIDE APPEARS.
 - C. DOUBLE WHITE REFLECTOR UNITS SHALL BE PLACED ON THE RIGHT AT ALL ACCELERATION AND DECELERATION LANES.
 - D. THE LOCATION OF THE REFLECTORS SHALL BE IN ACCORDANCE WITH THE INTERCHANGE RAMP PLACEMENT PLAN ON SHEET 2 OF THIS STANDARD.
- 2. REFLECTORS SHALL BE MOUNTED ON SUPPORTS SUCH THAT THE BOTTOM OF REFLECTORS IS FOUR FEET ABOVE THE ROADWAY EDGE AND TWO FEET OUTSIDE THE OUTER EDGE OF THE PAVED SHOULDER OR TWO FEET MINIMUM AND SIX FEET MAXIMUM OUTSIDE THE BACKS OF CURBS OR GUTTERS.
- 3. IN ALL CASES, THE COLOR OF THE REFLECTORS SHALL BE THE SAME AS THE ADJACENT EDGE LINE EXCEPT AS SPECIFIED IN GENERAL NOTES.
- 4. POST MOUNTED REFLECTORS SHALL BE PLACED CONTINUOUSLY AS NOTED ABOVE IN CONJUNCTION WITH GUARDRAIL INSTALLED.
- THE PLACEMENT OF ROADWAY DELINEATOR "CIRCULAR REFLECTORS" SHALL BE USED FOR ALL MINOR PROJECTS WHICH HAVE A LENGTH OF LESS THAN 5 MILES. THE PLACEMENT OF ROADWAY DELINEATOR "RECTANGULAR REFLECTORS" SHALL BE USED FOR ALL MAJOR PROJECTS WHICH HAVE A LENGTH GREATER THAN 5 MILES. ALL ROADWAY DELINEATORS WITHIN A ROADWAY SEGMENT SHALL BE OF

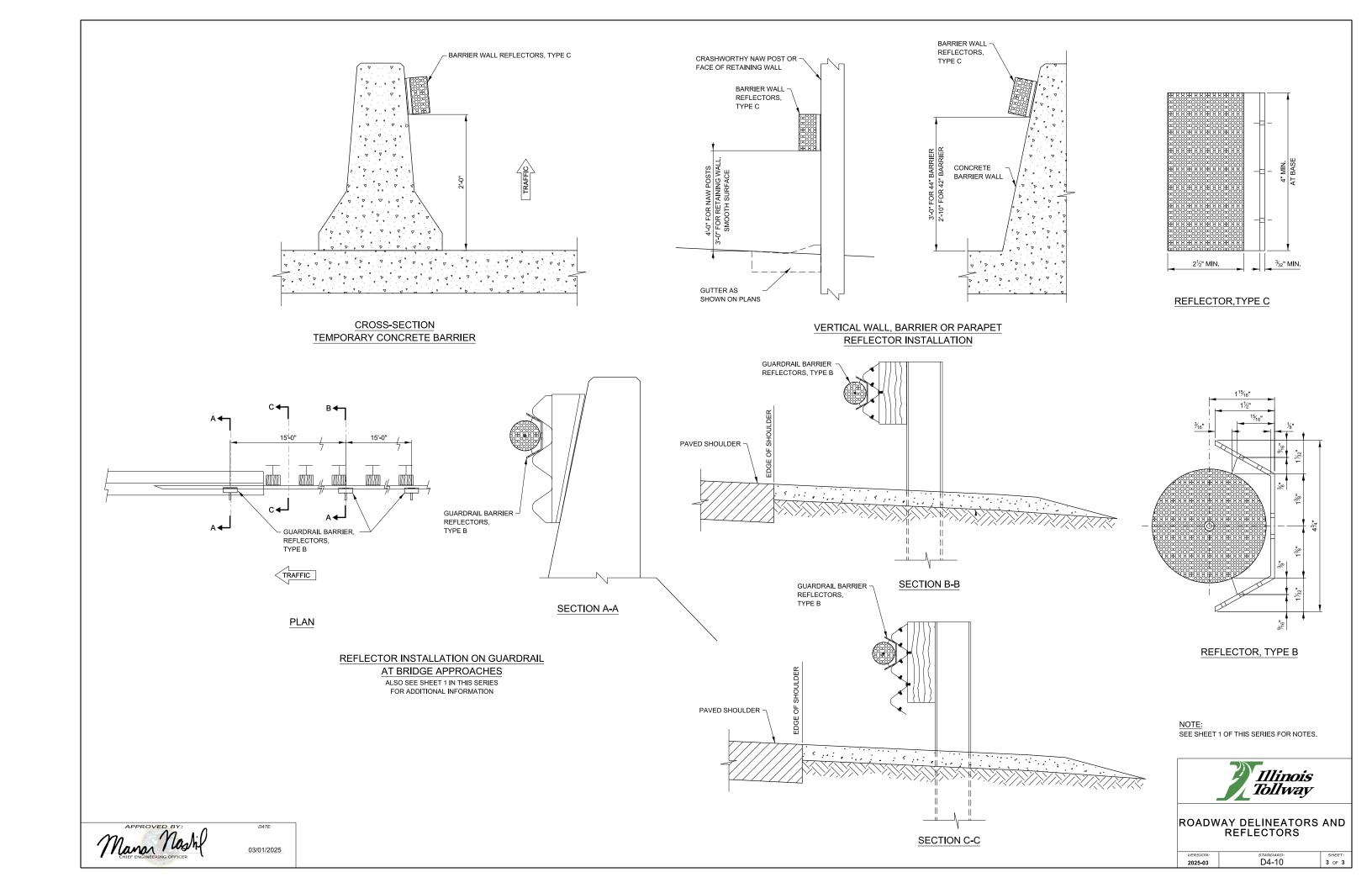
NOTES FOR GUARDRAIL AND BARRIER WALL REFLECTOR:

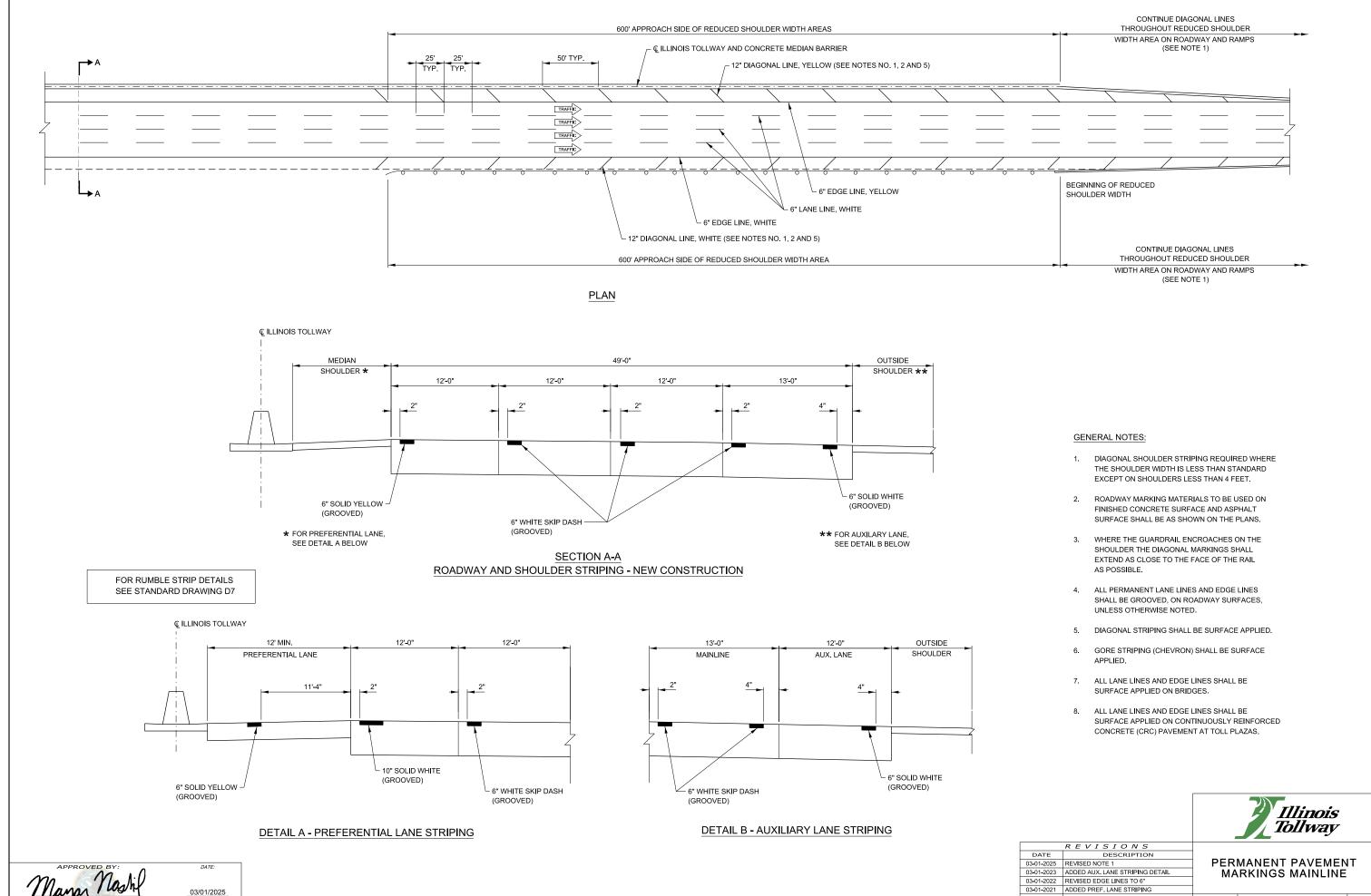
REFLECTORS TYPE B AND TYPE C SHALL HAVE REFLECTIVE SURFACE ON ONE SIDE ONLY. WHERE DOUBLE BACK REFLECTOR IS INDICATED, A SINGLE RED REFLECTOR SHALL BE INSTALLED BACK TO BACK WITH THE APPROACHING TRAFFIC FACING REFLECTOR.



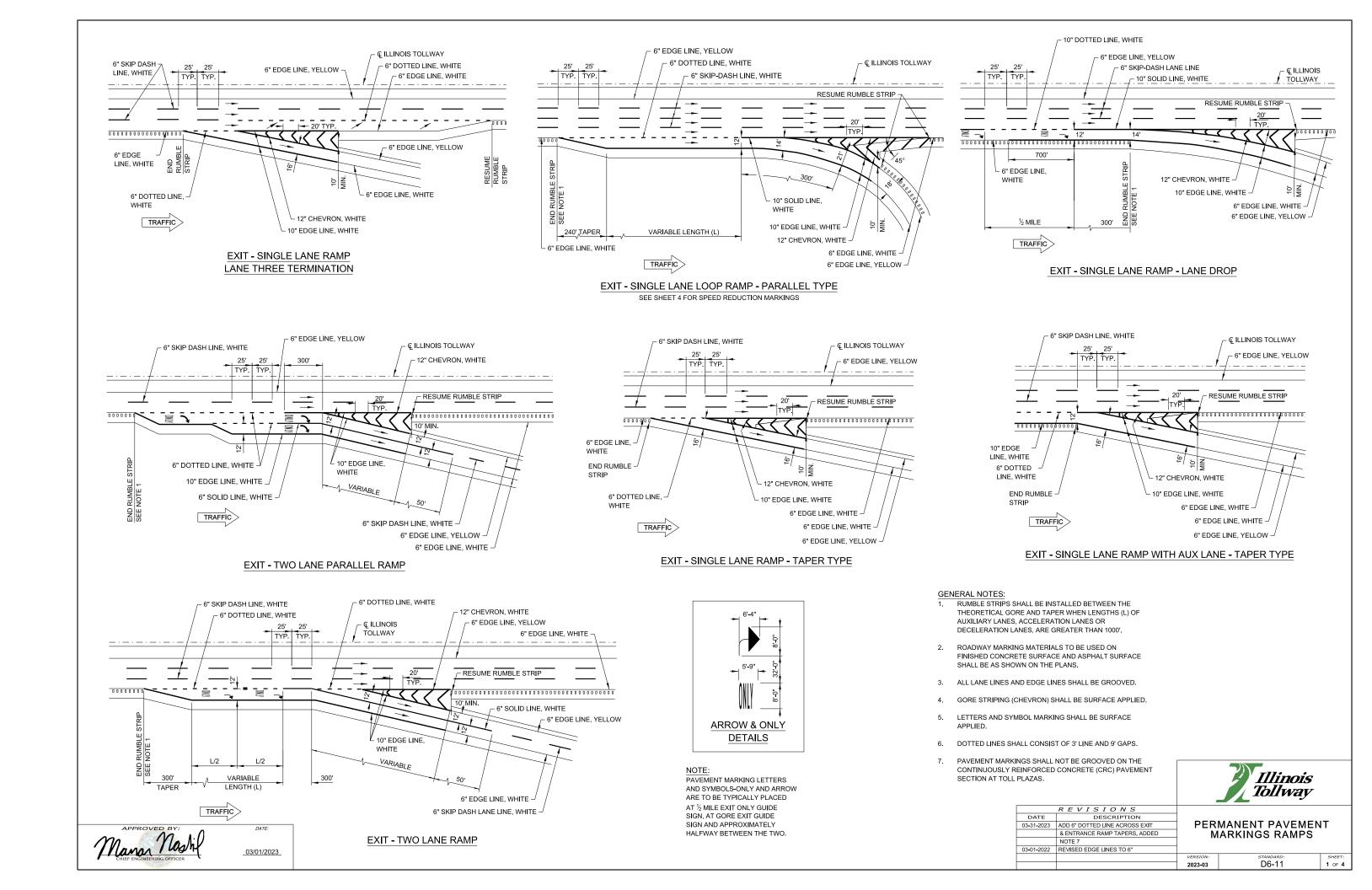
		_		
	REVISIONS			
DATE	DESCRIPTION			
03-01-2025	DELINEATOR SPACING AND MOUNTING	ROADW	AY DELINEATORS	AND
	HEIGHT REVISED AND RED REFLECTORS		REFLECTORS	
	ONLY ON SPECIFIED RAMPS		====	
03-01-2024	ADDED DETAIL FOR REFLECTOR			
	AT NAW & RETAINING WALL	VERSION:	STANDARD:	SHEET:
		2025-03	D4-10	1 OF 3

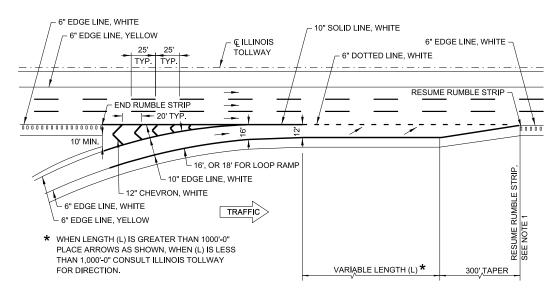




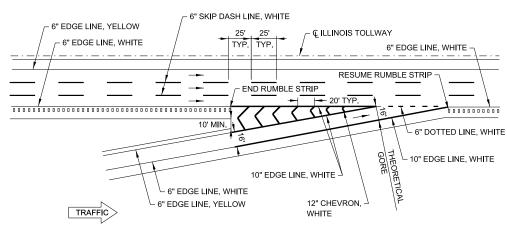


2025-03 D5-11 1 OF 1 03-31-2016 REVISED NOTES

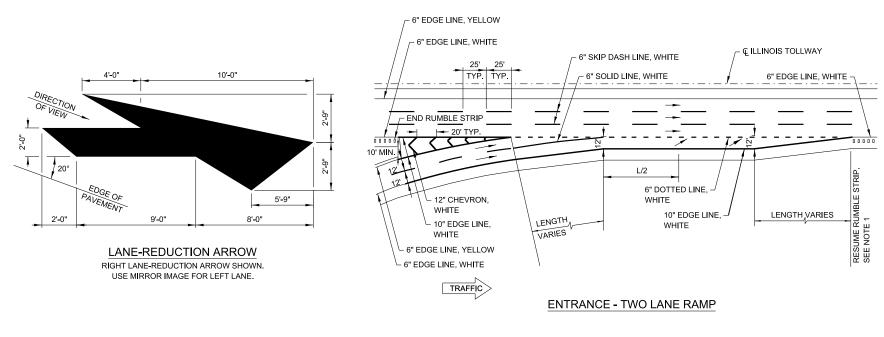


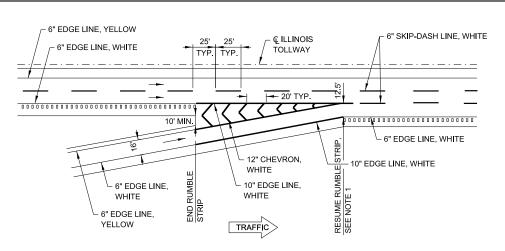


ENTRANCE - SINGLE LANE RAMP - PARALLEL TYPE

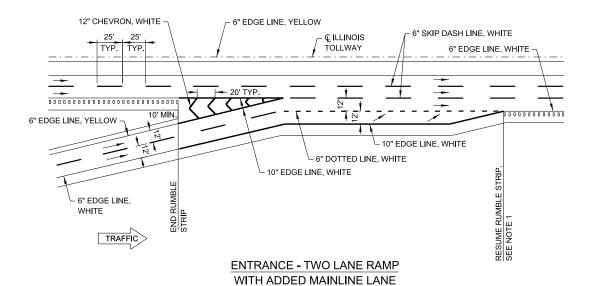


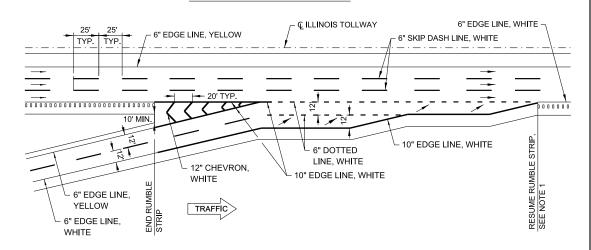
ENTRANCE - SINGLE LANE RAMP - TAPER TYPE





ENTRANCE - SINGLE LANE RAMP WITH ADDED MAINLINE LANE





ENTRANCE - TWO LANE PARALLEL RAMP

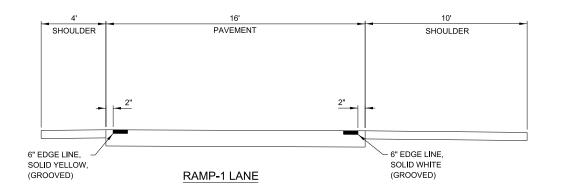


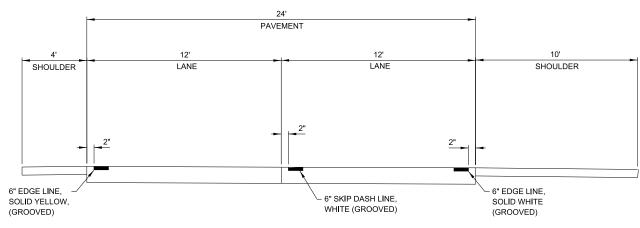
PERMANENT PAVEMENT SEE SHEET 1 IN MARKINGS RAMPS THIS SERIES FOR GENERAL NOTES.

2023-03

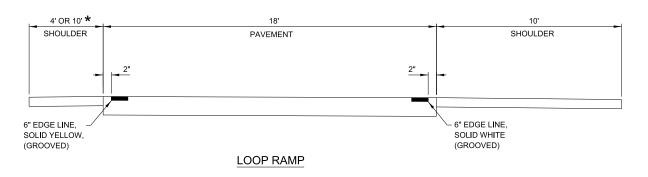
D6-11 2 OF 4



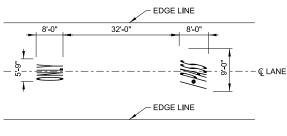




RAMP-2 LANES



* RUMBLE STRIP SHALL BE ADDED WHEN ALONG EXIT LOOP RAMP AND LEFT SHOULDER IS 10' WIDE



IPO LANE PAVEMENT MARKING

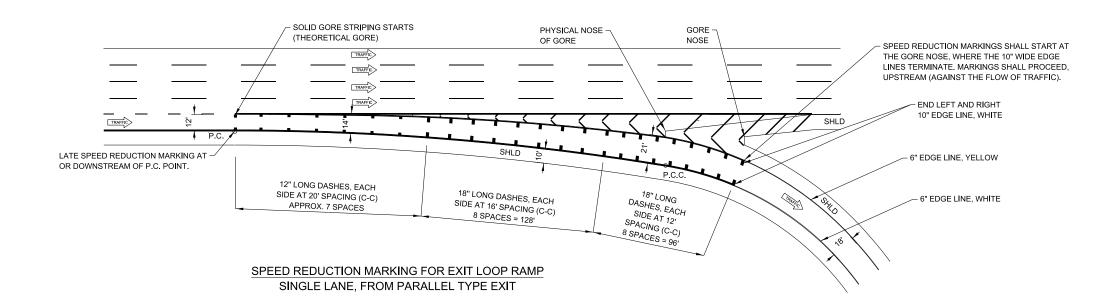
SEE SHEET 1 IN THIS SERIES FOR GENERAL NOTES.

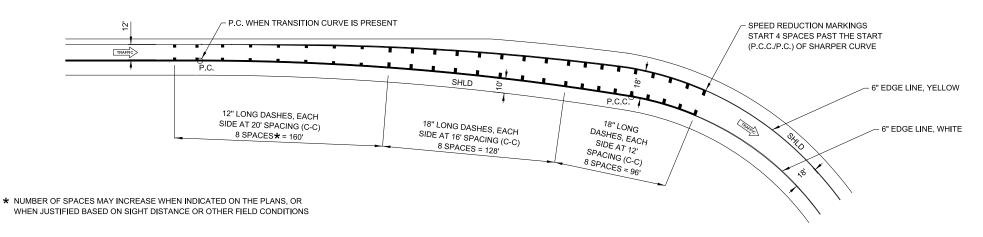
PERMANENT PAVEMENT MARKINGS RAMPS

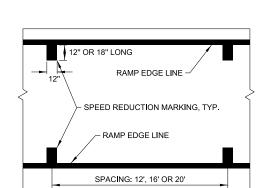
SHEET: 3 OF 4 D6-11

Illinois Tollway

03/01/2023







SPEED REDUCTION MARKING DETAIL

SPEED REDUCTION MARKING FOR EXIT LOOP RAMP SINGLE LANE, FROM C-D ROAD

SPEED REDUCTION MARKING NOTES:

SR-1. SPEED REDUCTION MARKINGS SHALL BE WHITE IN COLOR, BE 12" WIDE AND BE PLACED PERPENDICULAR TO THE EDGE LINE. THE MARKINGS SHALL TOUCH THE EDGE LINE AND EXTEND INTO THE LANE BY THE LENGTH INDICATED. THE MARKINGS ARE NOT GROOVED INTO THE PAVEMENT.

SR-2. SPACINGS SHALL VARY FROM LONGER SPACES TO SHORTER SPACES IN THE DIRECTION OF TRAFFIC. THE SPACES SHALL BE MEASURED ALONG THE RAMP BASELINE AND SHALL BE AS INDICATED ON THE DETAIL.

SR-3. SPEED REDUCTION MARKINGS SHALL ONLY BE USED ON EXIT LOOP RAMPS. PAYMENT FOR SPEED REDUCTION MARKINGS WILL BE FOR PAVEMENT MARKING LINE, 12" OF THE PERMANENT PAVEMENT MARKING TYPE USED ON THE RAMP.

SR-4. THIS DETAIL SHOWS PLACEMENT OF SPEED REDUCTION MARKINGS. FOR PLACEMENT AND TYPE OF EDGE LINES AND OTHER RAMP PAVEMENT MARKINGS, REFER TO OTHER DETAILS ON THE STANDARD DRAWINGS AND PLANS.



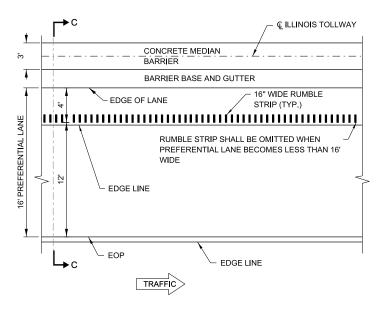


PERMANENT PAVEMENT MARKINGS RAMPS

 VERSION:
 STANDARD:

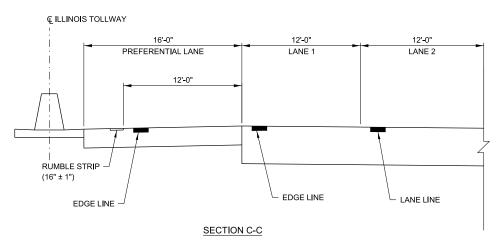
 2023-03
 D6-11

4 of 4

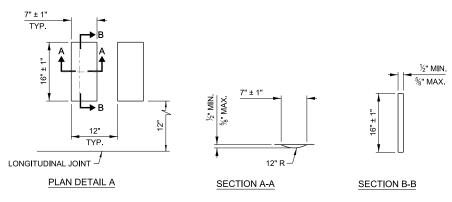


PREFERENTIAL LANE RUMBLE STRIP PLACEMENT - PLAN VIEW

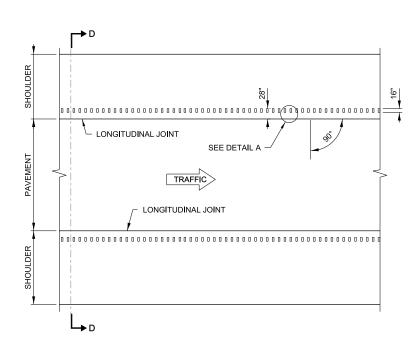
USE WHEN SHOWN ON PLANS, MAINLINE MEDIAN SHOULDER
IS AT LEAST 16' WIDE AND USED AS PREFERENTIAL LANE



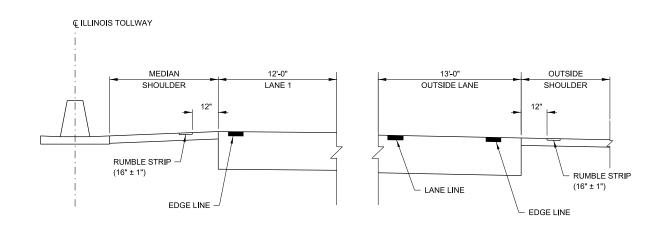
PREFERENTIAL LANE RUMBLE STRIP PLACEMENT - SECTION VIEW



ASPHALT SHOULDER RUMBLE STRIP DETAILS

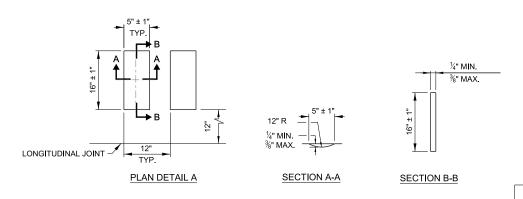


TYPICAL MAINLINE RUMBLE STRIP PLACEMENT - PLAN VIEW

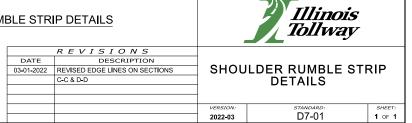


SECTION D-D

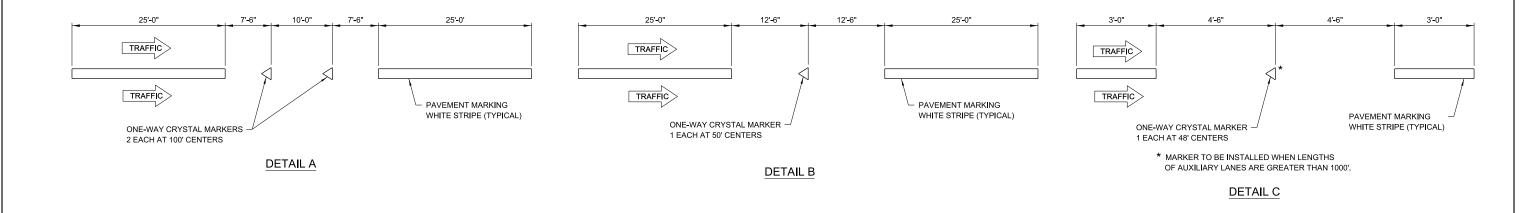
TYPICAL MAINLINE RUMBLE STRIP PLACEMENT - SECTION VIEW

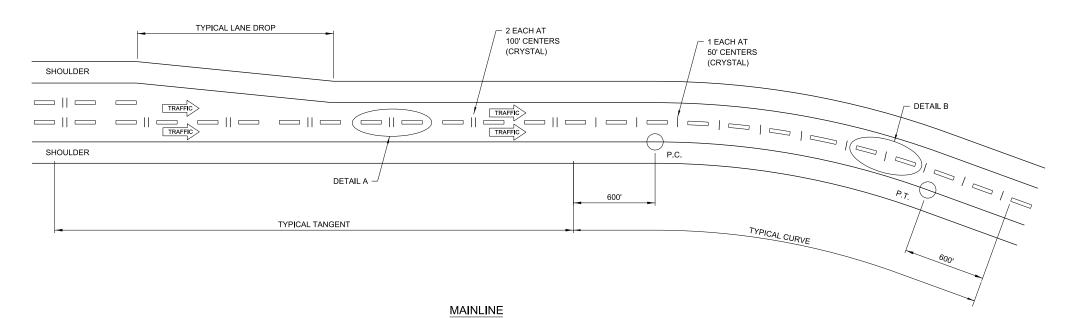


CONCRETE SHOULDER RUMBLE STRIP DETAILS









RAISED PAVEMENT LANE MARKER DETAILS

NOTES:

- USE OF RAISED PAVEMENT LANE MARKERS SHALL BE IN ACCORDANCE WITH THE IL TOLLWAY, ROADWAY SIGNING AND PAVEMENT MARKING GUIDELINES.
- FOR COLLECTOR-DISTRIBUTOR (C-D) ROADWAYS, PLACE ONE-WAY CRYSTAL MARKER, 2 EACH AT 100' CENTERS. USE DETAIL A.
- 3. FOR MULTI LANE DIRECTIONAL RAMPS, PLACE ONE-WAY CRYSTAL MARKER, 1 EACH AT 50' CENTERS. USE DETAIL B.
- 4. FOR AUXILIARY LANES, PLACE ONE-WAY CRYSTAL MARKER, 1 EACH AT 48' CENTERS. USE DETAIL C.

Illinois Tollway

REVISIONS				
DATE	DESCRIPTION			
03-15-2019	ADDED NEW NOTE 1	RAISED PAVEMENT LANE		
03-31-2016	REVISED NOTES 1.	MARKER		
11-01-2012	REVISED DETAIL C.			
		1		
		VERSION:	STANDARD:	SHEET:
		2019-03	D8-03	1 OF 1

APPROVED BY:

DATE:

O3/01/2019

CHIEF ENGINEERING OFFICER

