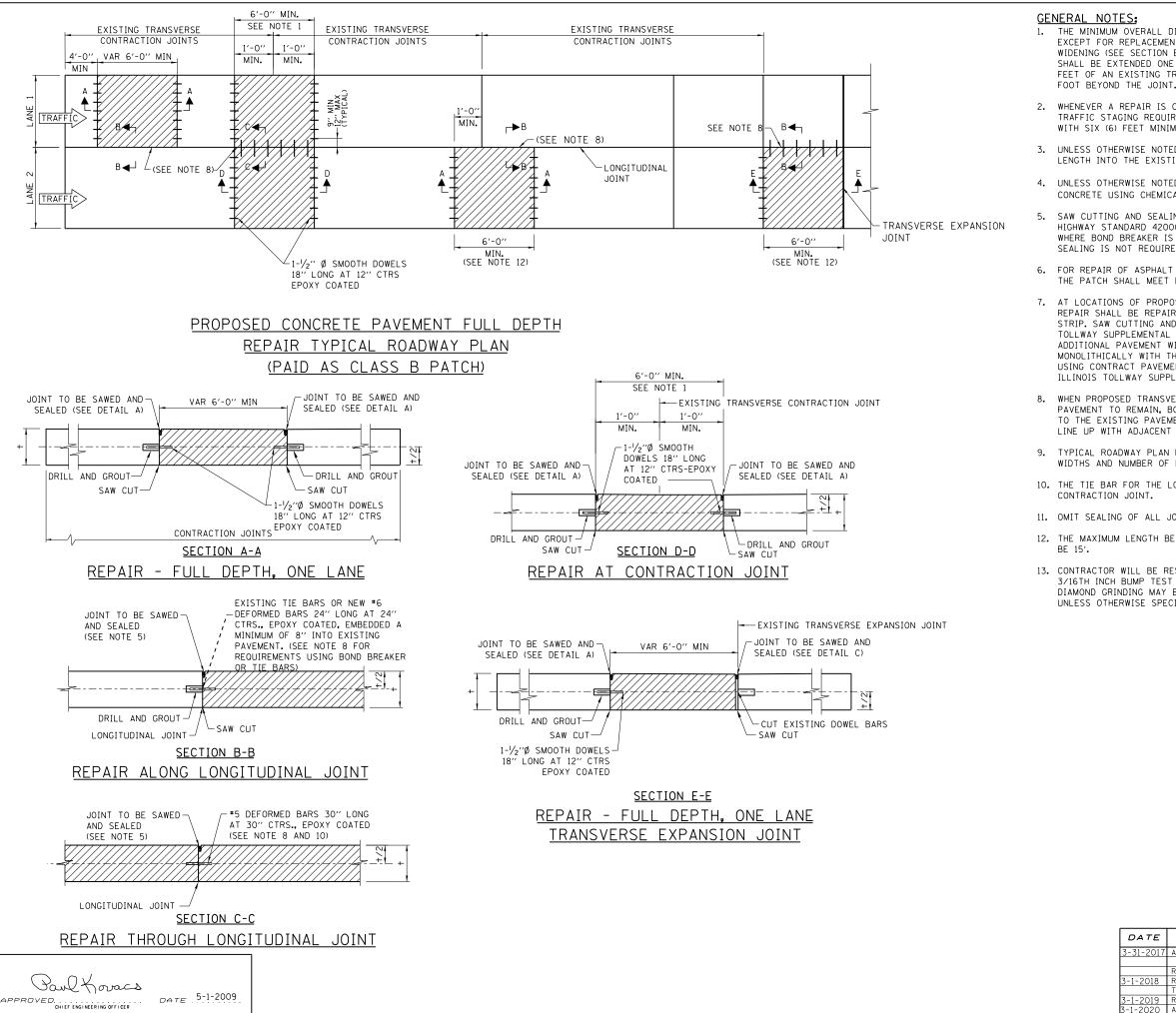
Illinois Tollway Standard Drawing Revisions

Roadway Pav	vement	
Standard	Modification Summary Effective: 03-0	1-2020
A1-08	CONCRETE PAVEMENT REPAIR FULL DEPTH	
	Revised callout note.	
	Removed reinforcement from section details	
	Added transverse expansion joint repair	
A2-07	ASPHALT OVERLAY REPAIR	
	Removed note 5.	
A5-06	J.P.C PAVEMENT SHEET 1 & 2	
	Adjusted slope in lane 1.	
	Removed dowel bars and adjusted spacing.	
A7-04	PAVEMENT JOINTS	
	Removed dowel transverse expansion joint	
	Added sleeper slab transverse expansion joint sheets.	
A12-01	JOINTING PLAN ENTRANCE RAMP TERMINAL WITH AUXILIARY LANE SHEET 1 AND 2	
	Updated dimensions	
A13-03	JOINTING PLAN EXIT RAMP TERMINAL WITH AUXILIARY LANE SHEET 1	
	Updated 12' min at gore.	
A13-03	JOINTING PLAN EXIT RAMP TERMINAL WITH AUXILIARY LANE SHEET 2	
	Updated 12' min at gore.	
A14-06	JOINTING PLAN ENTRANCE RAMP TERMINAL SHEET 1	
	Added epoxy language to notes.	
A15-06	JOINTING PLAN EXIT RAMP TERMINAL SHEET 1	
	Updated 12' min at gore.	
A15-06	JOINTING PLAN EXIT RAMP TERMINAL SHEET 2	
	Updated 12' min at gore.	
A16-06	JOINTING PLAN PARALLEL EXIT RAMP TERMINAL SHEET 1	
	Modifed outside loop ramp to 10'	
	Updated 12' min at gore.	
A16-06	JOINTING PLAN PARALLEL EXIT RAMP TERMINAL SHEET 2	
	Modifed outside loop ramp to 10'	
	Updated 12' min at gore.	
A17-06	JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL SHEET 1	
	Updated dimensions	
A17-06	JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL SHEET 2	
	Updated dimensions	

New Sheet

Retired Standard



THE MINIMUM OVERALL DIMENSIONS OF REPAIRS SHALL BE SIX (6) FEET BY THE LANE WIDTH EXCEPT FOR REPLACEMENT OF DETERIORATED PAVEMENT EDGES ADJACENT TO PROPOSED WIDENING (SEE SECTION E-E). REPAIRS TERMINATING AT TRANSVERSE CONTRACTION JOINTS SHALL BE EXTENDED ONE FOOT ACROSS THE JOINT. WHEN A REPAIR EXTENDS WITHIN FOUR FEET OF AN EXISTING TRANSVERSE CONTRACTION JOINT THE REPAIR SHALL BE EXTENDED ONE

2. WHENEVER A REPAIR IS CONSTRUCTED IN TWO OR MORE SEGMENTS BECAUSE OF MAINTENANCE OF TRAFFIC STAGING REQUIREMENTS, EACH SEGMENT SHALL BE CONSIDERED A SEPARATE PATCH WITH SIX (6) FEET MINIMUM DIMENSION.

3. UNLESS OTHERWISE NOTED, DRILLED AND GROUTED DOWELS SHALL BE EMBEDDED $\frac{1}{2}$ THEIR LENGTH INTO THE EXISTING CONCRETE USING CHEMICAL ADHESIVE AS SPECIFIED.

4. UNLESS OTHERWISE NOTED, TIE BARS SHALL BE EMBEDDED ½ THEIR LENGTH INTO THE EXISTING CONCRETE USING CHEMICAL ADHESIVE AS SPECIFIED.

5. SAW CUTTING AND SEALING OF LONGITUDINAL JOINTS IN THE REPAIR AREAS SHALL FOLLOW IDOT HIGHWAY STANDARD 420001 (PAVEMENT JOINTS) WHERE TIE BARS ARE NEEDED OR DETAIL B WHERE BOND BREAKER IS USED. SEE NOTE 8 TO DETERMINE JOINT REQUIREMENTS. JOINT SEALING IS NOT REQUIRED FOR PAVEMENT BEING RESURFACED.

6. FOR REPAIR OF ASPHALT OVERLAY AND P.C.C. PAVEMENT, THE SAWCUT SHALL BE FULL DEPTH. THE PATCH SHALL MEET EXISTING CROSS SECTION MATERIALS THICKNESSES.

7. AT LOCATIONS OF PROPOSED PAVEMENT WIDENING, EDGE DETERIORATION REQUIRING FULL DEPTH REPAIR SHALL BE REPAIRED BY REMOVAL AND REPLACEMENT OF A MINIMUM OF 1'-6'' WIDE STRIP. SAW CUTTING AND REMOVAL WILL BE PAID PER ARTICLE 109.04 OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS, UNLESS OTHERWISE PROVIDED IN THE CONTRACT. THE ADDITIONAL PAVEMENT WIDTH REPLACING THE EDGE DETERIORATION SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE PAVEMENT WIDENING. THIS ADDITIONAL PAVEMENT SHALL BE PAID USING CONTRACT PAVEMENT WIDENING ITEMS IN ACCORDANCE WITH ARTICLE 109.03 OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.

8. WHEN PROPOSED TRANSVERSE JOINTS ARE OFFSET FROM EXISTING JOINTS IN ADJACENT PAVEMENT TO REMAIN, BOND BREAKER SHALL BE USED AT THE LONGITUDINAL JOINT ADJACENT TO THE EXISTING PAVEMENT, WITH TIE BARS OMITTED. WHEN PROPOSED TRANSVERSE JOINTS LINE UP WITH ADJACENT JOINTS, TIE BARS SHALL BE USED WITH NO BOND BREAKER.

9. TYPICAL ROADWAY PLAN FOR FULL DEPTH REPAIR IS APPLICABLE TO ALL PAVEMENTS, LANE WIDTHS AND NUMBER OF EXISTING LANES.

10. THE TIE BAR FOR THE LONGITUDINAL SAWED JOINT SHALL BE 15" FROM THE TRANSVERSE

11. OMIT SEALING OF ALL JOINTS IN THE REPAIR AREA OF PAVEMENT TO BE RESURFACED.

12. THE MAXIMUM LENGTH BETWEEN TRANSVERSE CONTRACTION JOINTS IN ANY PATCH SHALL

13. CONTRACTOR WILL BE RESPONSIBLE TO ATTAIN A SMOOTHNESS REQUIREMENT OF PASSING A 3/16TH INCH BUMP TEST USING A 16' ROLLING STRAIGHT EDGE AFTER PATCHING IS COMPLETE. DIAMOND GRINDING MAY BE USED TO RESTORE RIDE QUALITY AND IS INCIDENTAL TO THE WORK UNLESS OTHERWISE SPECIFIED IN THE PLANS.



LEGEND EXISTING WELDED WIRE FABRIC (10" PAVEMENT ONLY)

EXISTING PAVEMENT

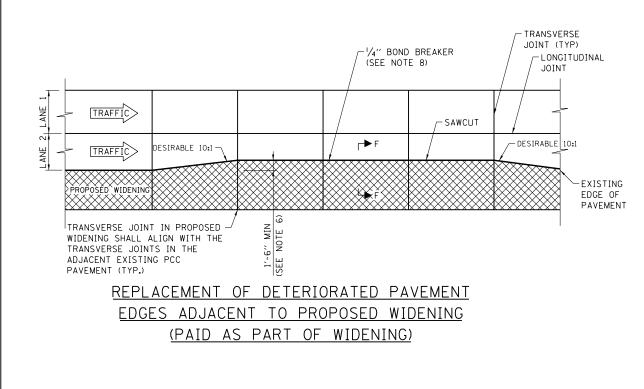


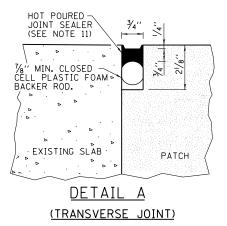
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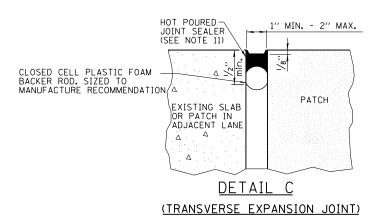
PROPOSED CONCRETE PAVEMENT REPAIR - FULL DEPTH PROPOSED CONCRETE PAVEMENT WIDENING

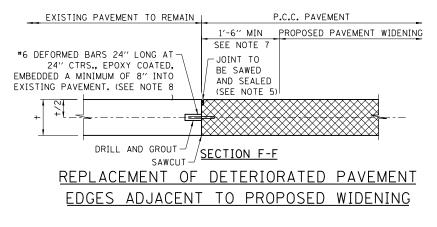
CONCRETE PAVEMENT THICKNESS

		SHEET 1 OF 2
		Illinois Tollway
DATE	REVISIONS	
3-31-2017	ADD PAVEMENT THICKNESS TO	
	SECTION C-C	CONCRETE PAVEMENT REPAIR
	REVISED NOTES	FULL DEPTH
3-1-2018	REMOVED TIE BARS & REVISED NOTES	
	TAPER SAW CUT	
3-1-2019	REVISED NOTES	STANDARD A1-08
3-1-2020	ADDED TRANSVERSE EXPANSION JOINT	STANDARD AT-00

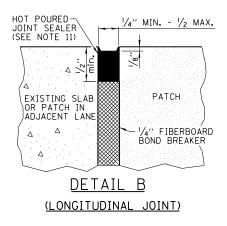


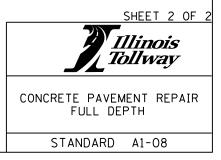


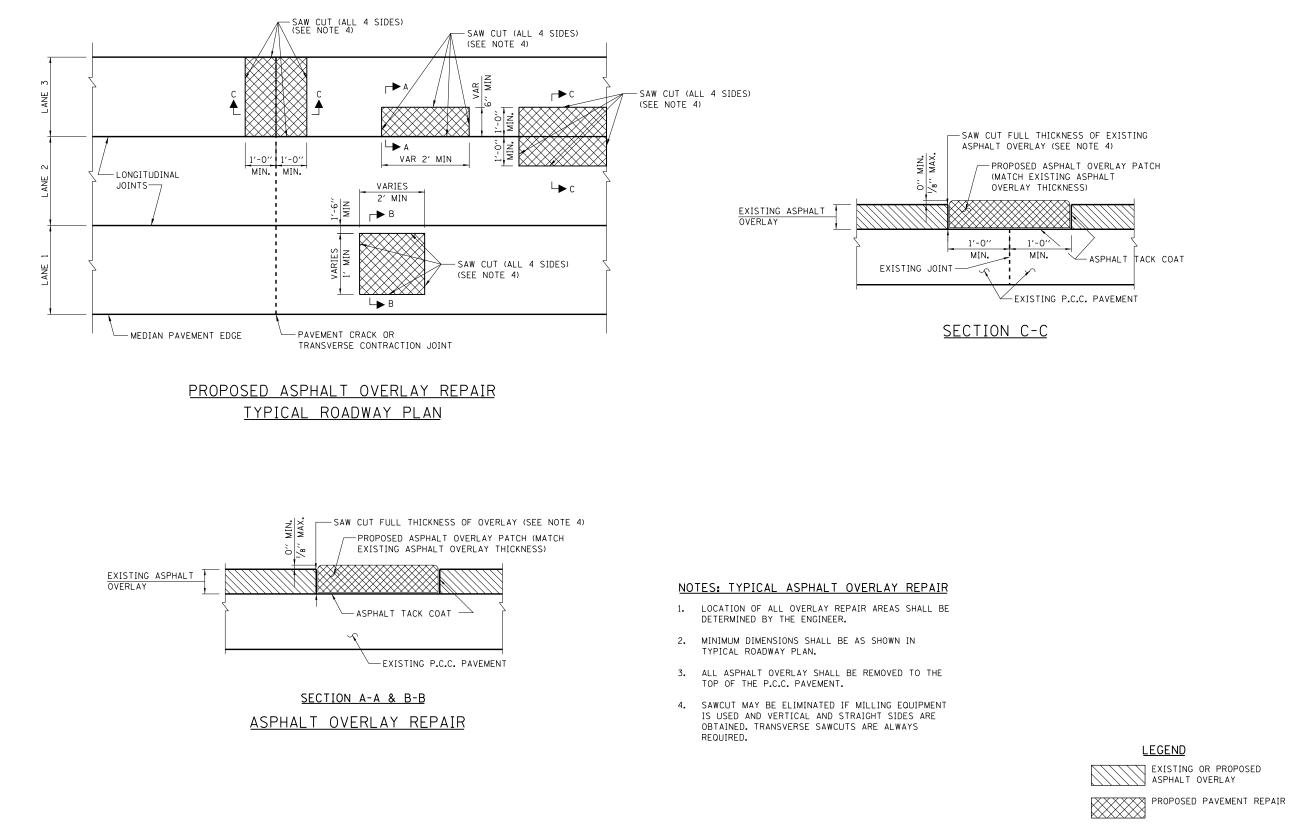
















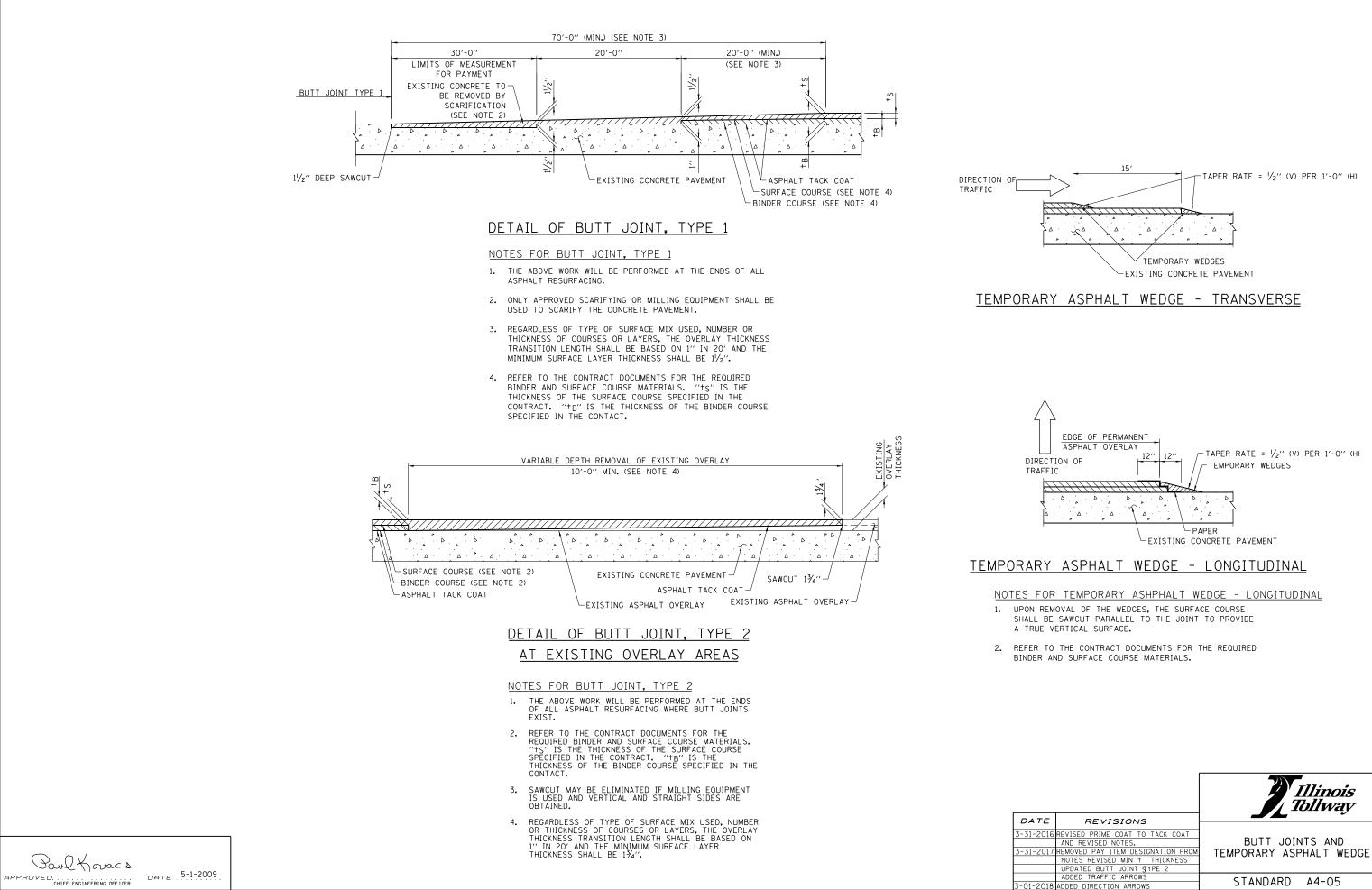
EXISTING OR PROPOSED



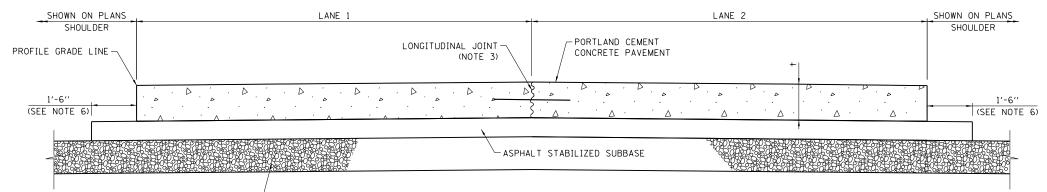
ASPHALT OVERLAY REPAIR

	REVISIONS
5	REMOVED PARTIAL DEPTH PAVEMENT REPAIR.
6	REVISED PRIME COAT TO TACK COAT, ADDED
	SECTION C-C AND PATCHES ACROSS JOINTS.
7	REVISED SPECIAL PROVISION REFERENCE
	REVISED NOTES
	REVISED NOTES

STANDARD A2-07

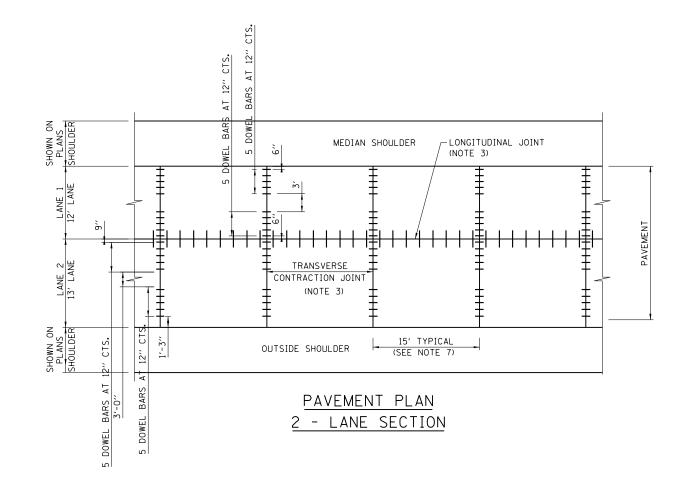


DATE	REVISIONS	
3-31-2016	REVISED PRIME COAT TO TACK COAT	
	AND REVISED NOTES.	BUTT JOINTS
3-31-2017	REMOVED PAY ITEM DESIGNATION FROM	TEMPORARY ASPHA
	NOTES REVISED MIN + THICKNESS	
	UPDATED BUTT JOINT ₫YPE 2	
	ADDED TRAFFIC ARROWS	STANDARD A4
3-01-2018	ADDED DIRECTION ARROWS	STANDARD A4



SUBGRADE AGGREGATE

PAVEMENT CROSS - SECTION (2 LANES)

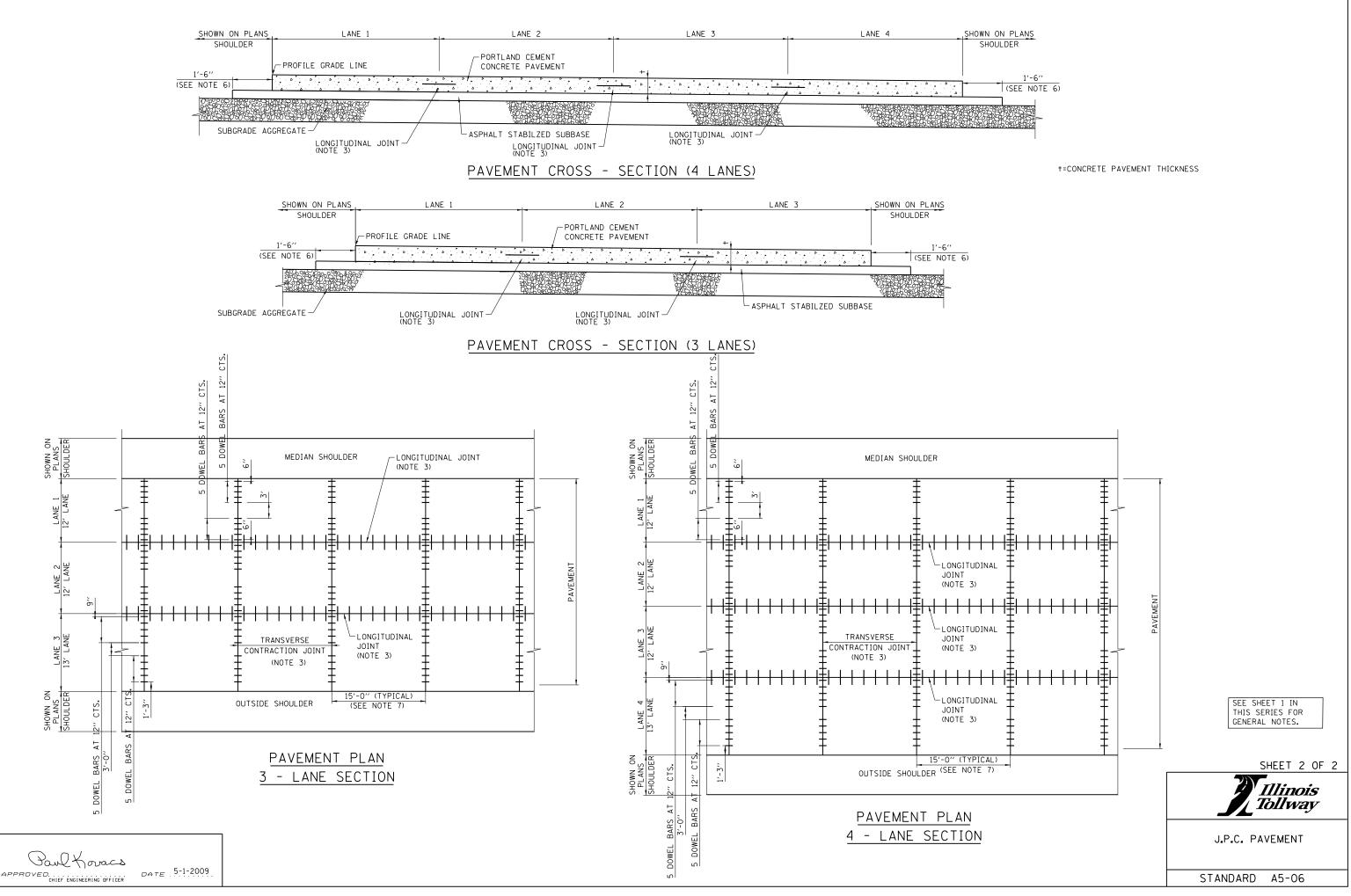


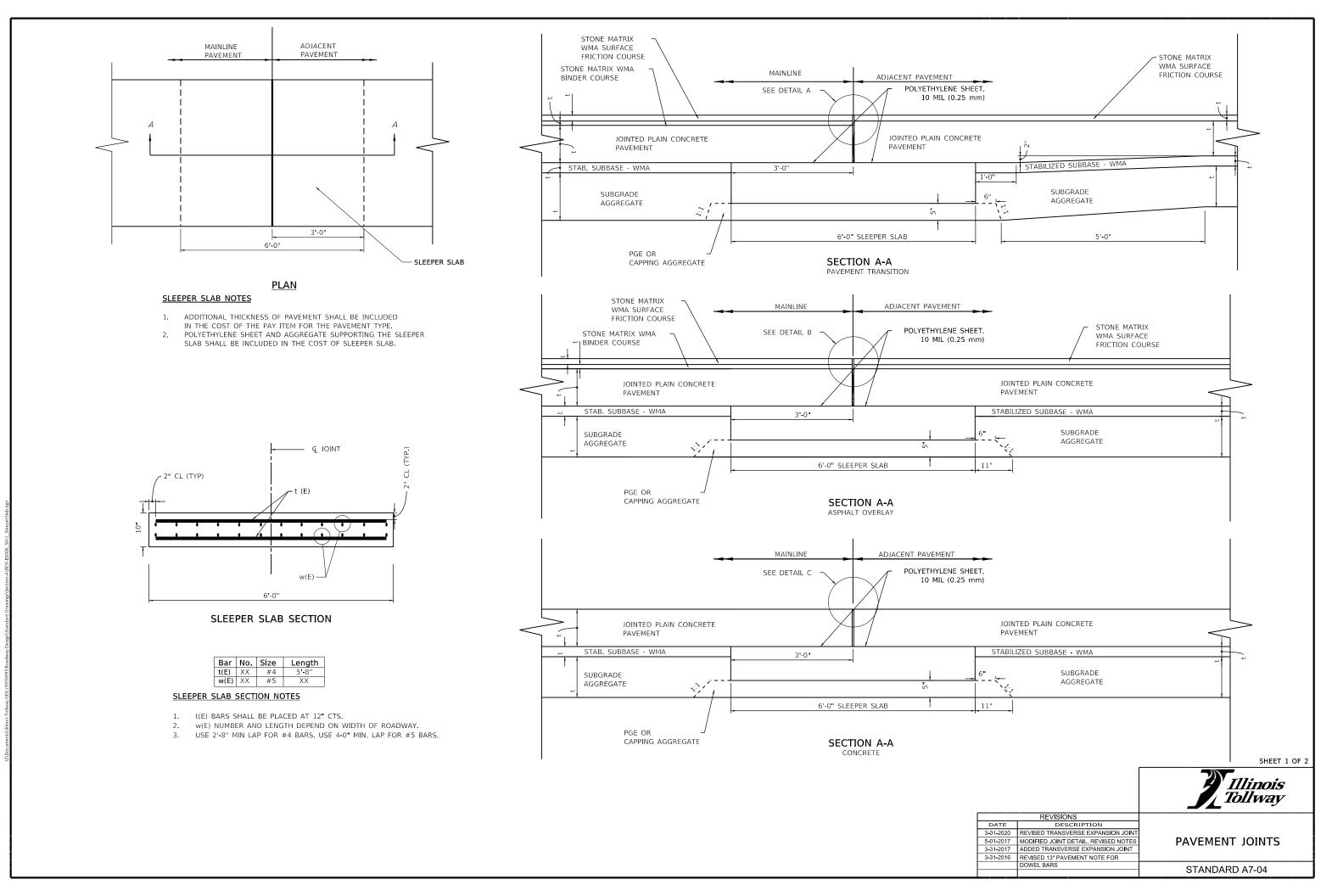
Poul Koracs APPROVED DATE 5-1-2009 **+= CONCRETE PAVEMENT THICKNESS**

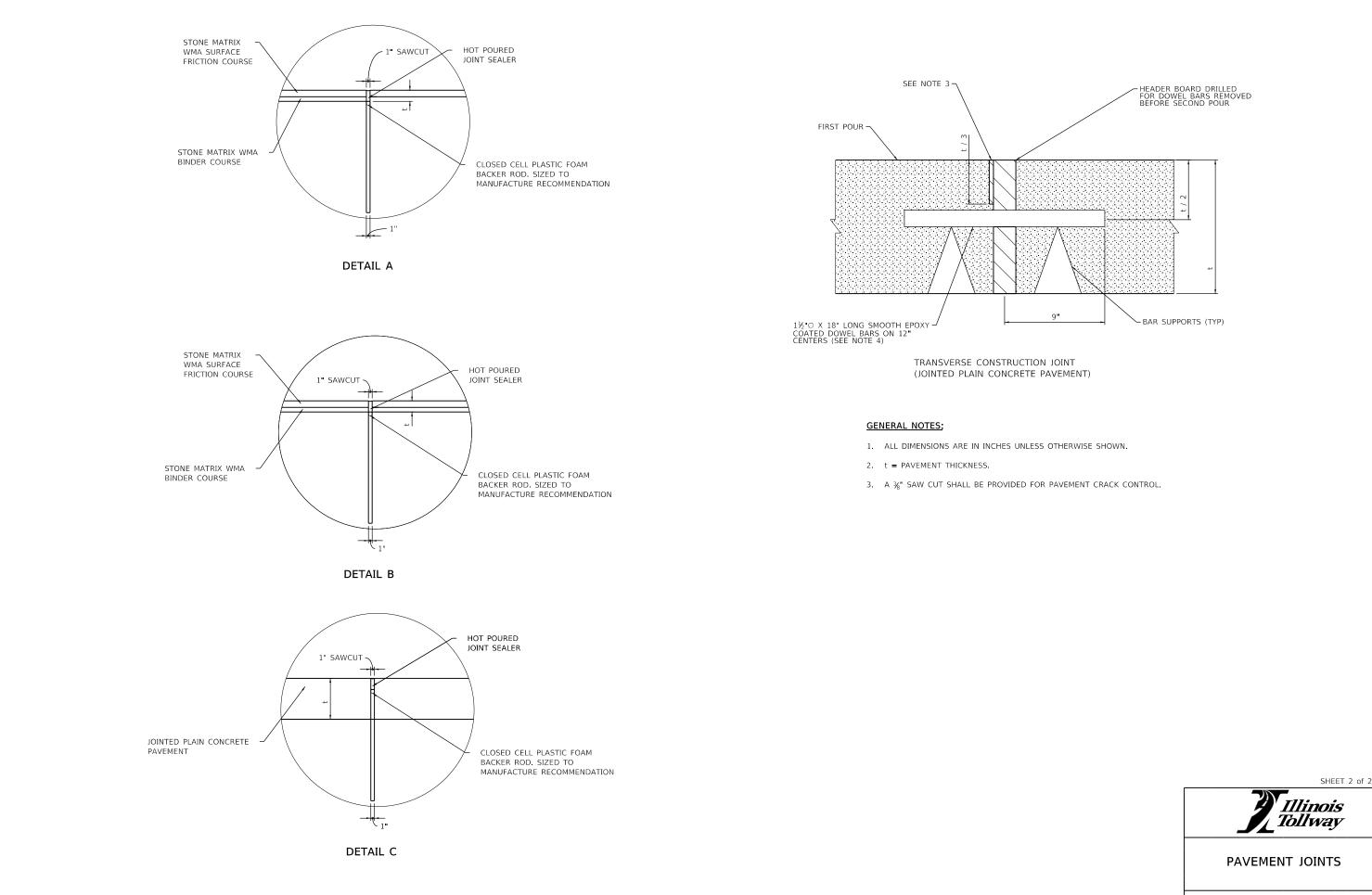
GENERAL NOTES:

- DOWEL BASKET ASSEMBLIES, WHERE USED, SHALL BE SUPPORTED AND ANCHORED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND CONCRETE SPECIAL PROVISION.
- 2. MATERIALS ARE PROJECT SPECIFIC. REFER TO PROJECT PLANS AND CONTRACT DOCUMENTS FOR DETAILS.
- 3. SEE ILLINOIS TOLLWAY STANDARD DRAWING AT (PAVEMENT JOINTS) AND IDOT HIGHWAY STANDARD 420001 (PAVEMENT JOINTS) FOR DETAILS OF JOINTS AND TIE BARS NOT SHOWN.
- 4. PAVEMENT DESIGNS ARE PROJECT SPECIFIC, OTHER MATERIALS MAY BE SUBSTITUTED FOR ASPHALT STABILIZED SUBBASE AND SUBGRADE AGGREGATE. REFER TO PROJECTS PLANS FOR DETAILS AND MATERIAL THICKNESS.
- 5. THE TIE BAR FOR THE LONGITUDINAL SAWED JOINT SHALL BE 15" FROM THE TRANSVERSE CONTRACTION JOINT.
- 6. THE 1'-6" WIDE ASPHALT STABILIZED SUBBASE MAY BE REDUCED TO 1'-0" WHEN PAVING EQUIPMENT UTILIZED FOR CONSTRUCTION OF THE PCC PAVEMENT WILL ALLOW.
- 7. THE 15'-O" TYPICAL TRANSVERSE JOINT SPACING DIMENSION SHALL BE ADJUSTED TO 12'-O" MIN. TO 18'-O" MAX. WHEN PLACED ADJACENT TO EXISTING PCC PAVEMENT STRUCTURE SO THAT THE JOINTS ARE IN PROLONGATION. ADJUST THE TIE BAR SPACING TO MAINTAIN A CLEARANCE OF 6 (150) FROM DOWEL BARS.

		SHEET 1 OF 2
		Illinois Tollway
DATE	REVISIONS	
3-11-2015	REVISED NOTES	
3-31-2016	SHOW SUBBASE WIDENED	J.P.C. PAVEMENT
3-31-2017	COMBINED WITH A6	
	REVISED WIDTH	
03-01-18	CORRECTED DIMENSION	
03-01-19	UPDATED NOTES	
03-01-20	UPDATED CROWN AND DOWELS	31 ANDAND A3-06
		STANDARD A5-06

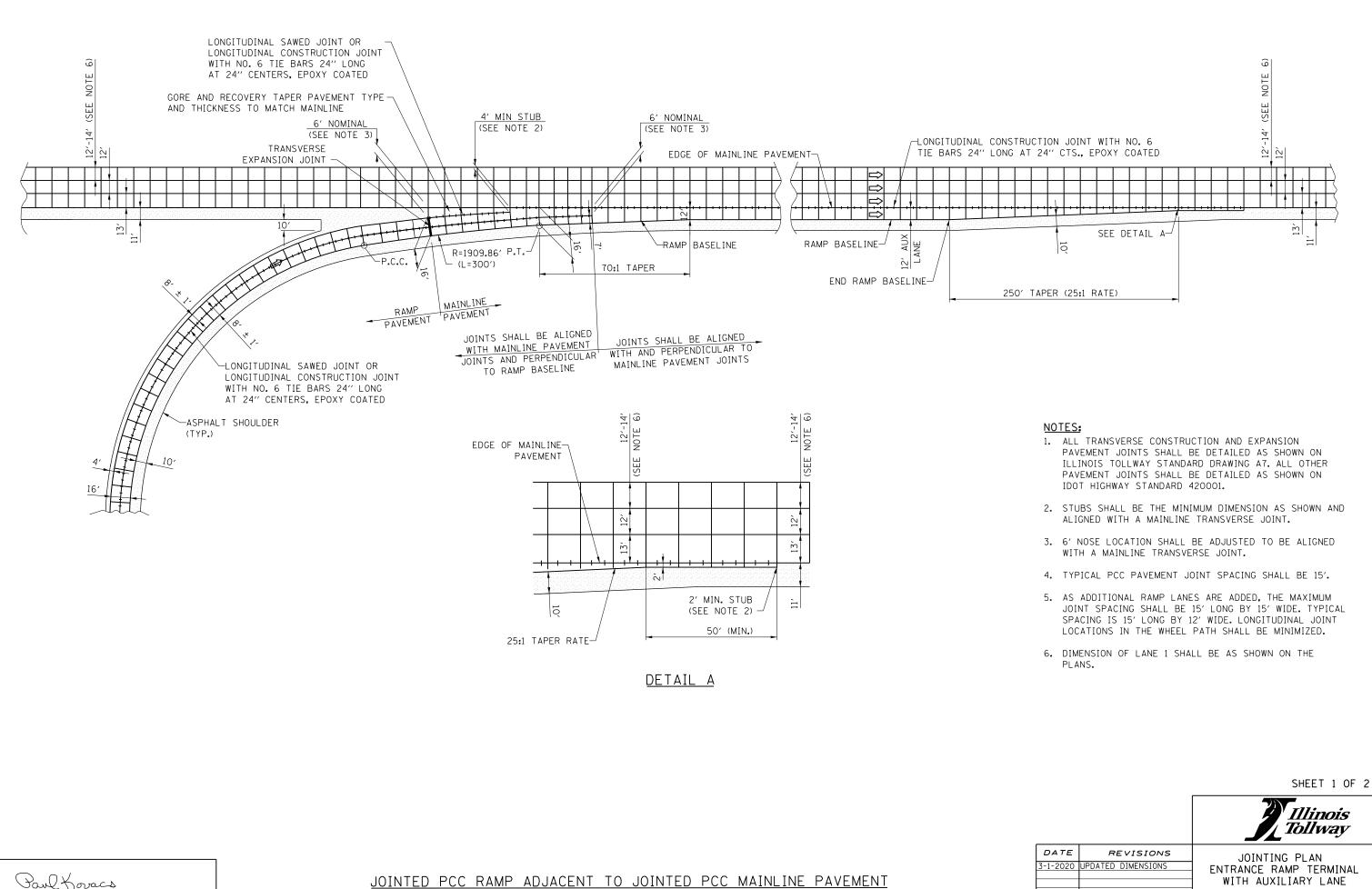






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STANDARD A7-04



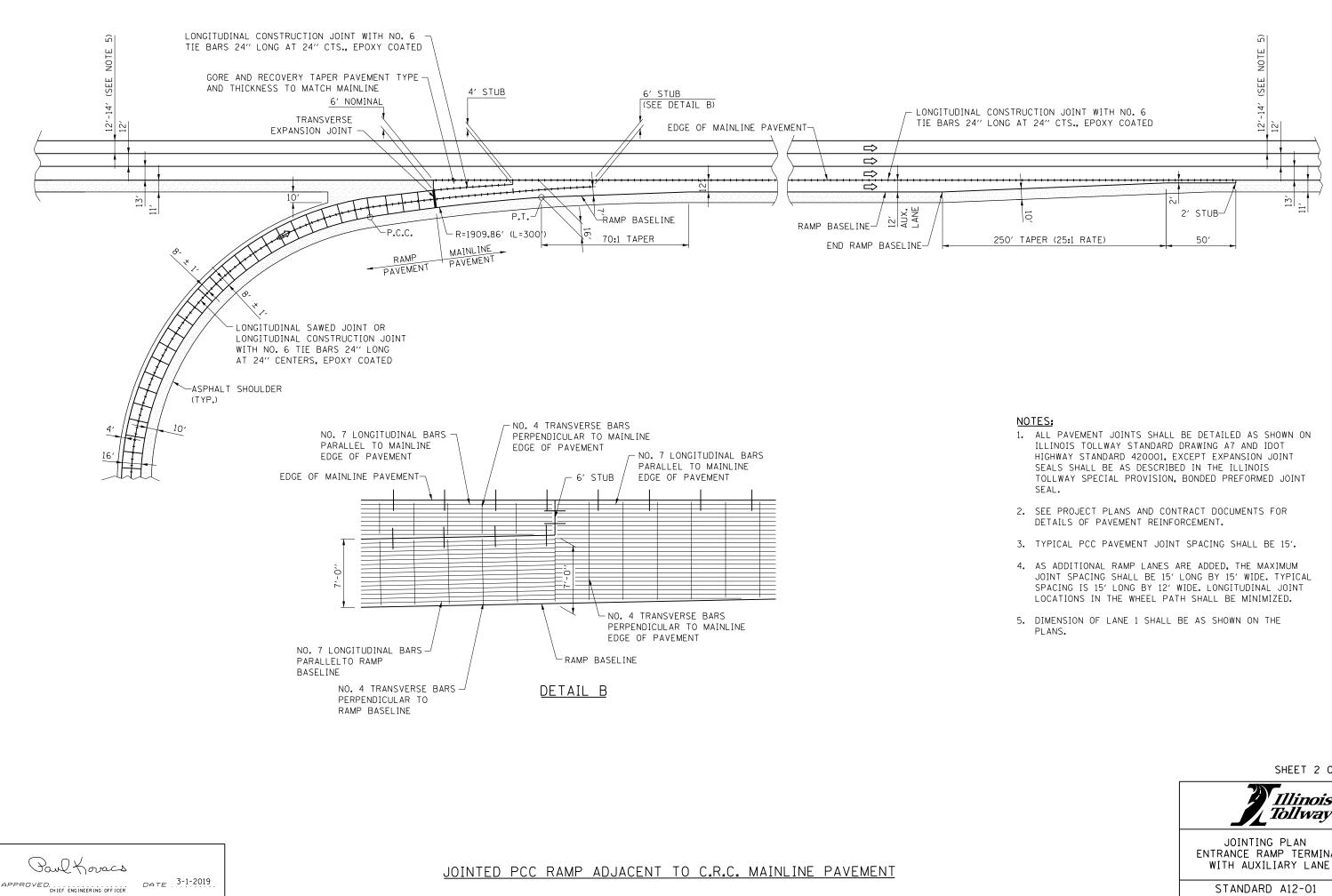
APPROVED. CHIEF ENCINEERING OFFICER DATE 3-1-2019

JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT

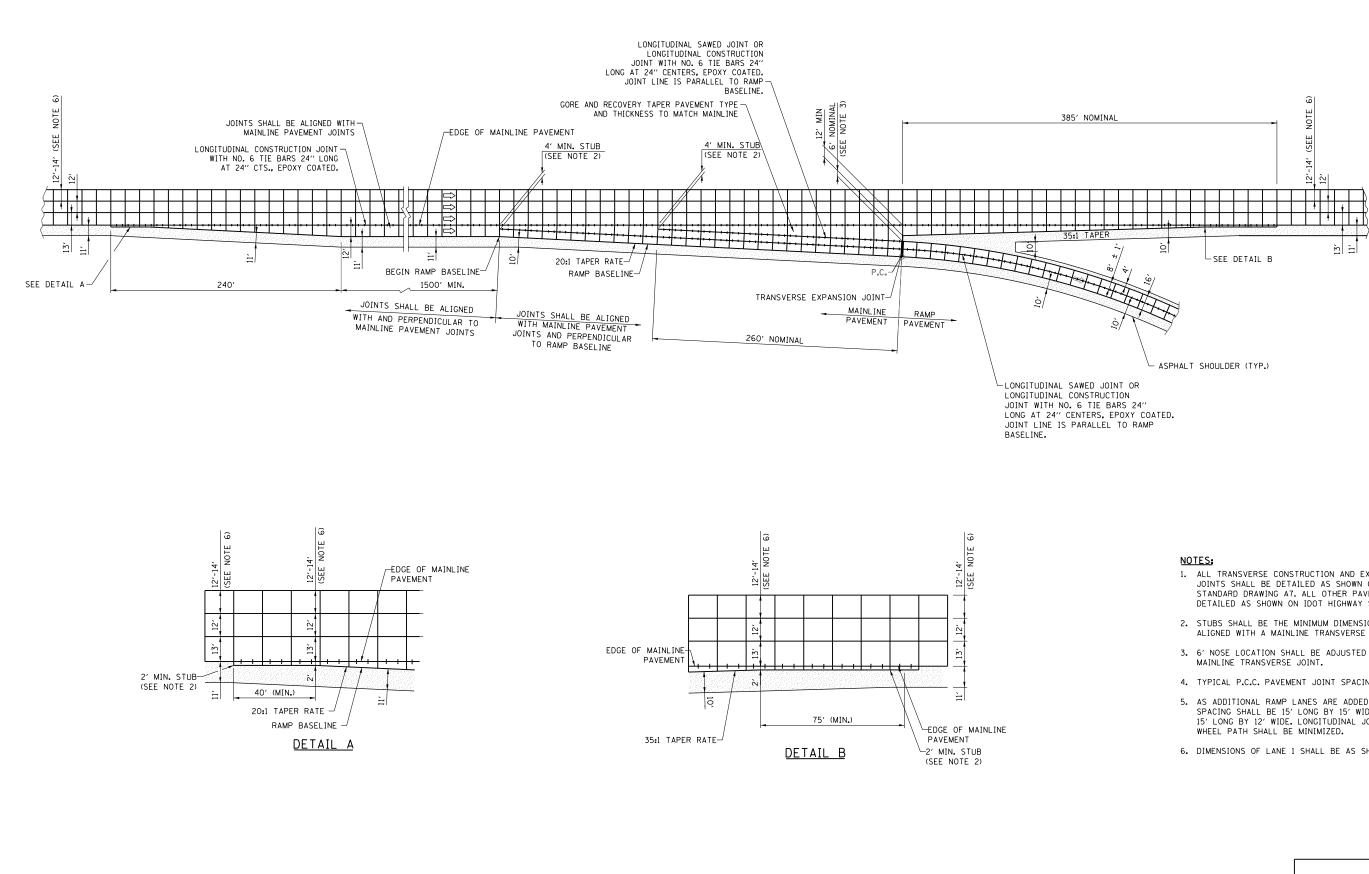
- 2. STUBS SHALL BE THE MINIMUM DIMENSION AS SHOWN AND

- JOINT SPACING SHALL BE 15' LONG BY 15' WIDE. TYPICAL

	Illinois Tollway
DATE REVISIONS	JOINTING PLAN
3-1-2020 UPDATED DIMENSIONS	ENTRANCE RAMP TERMINAL
	WITH AUXILIARY LANE
	STANDARD A12-01



SHEET 2 OF 2 Illinois Tollway ENTRANCE RAMP TERMINAL WITH AUXILIARY LANE STANDARD A12-01

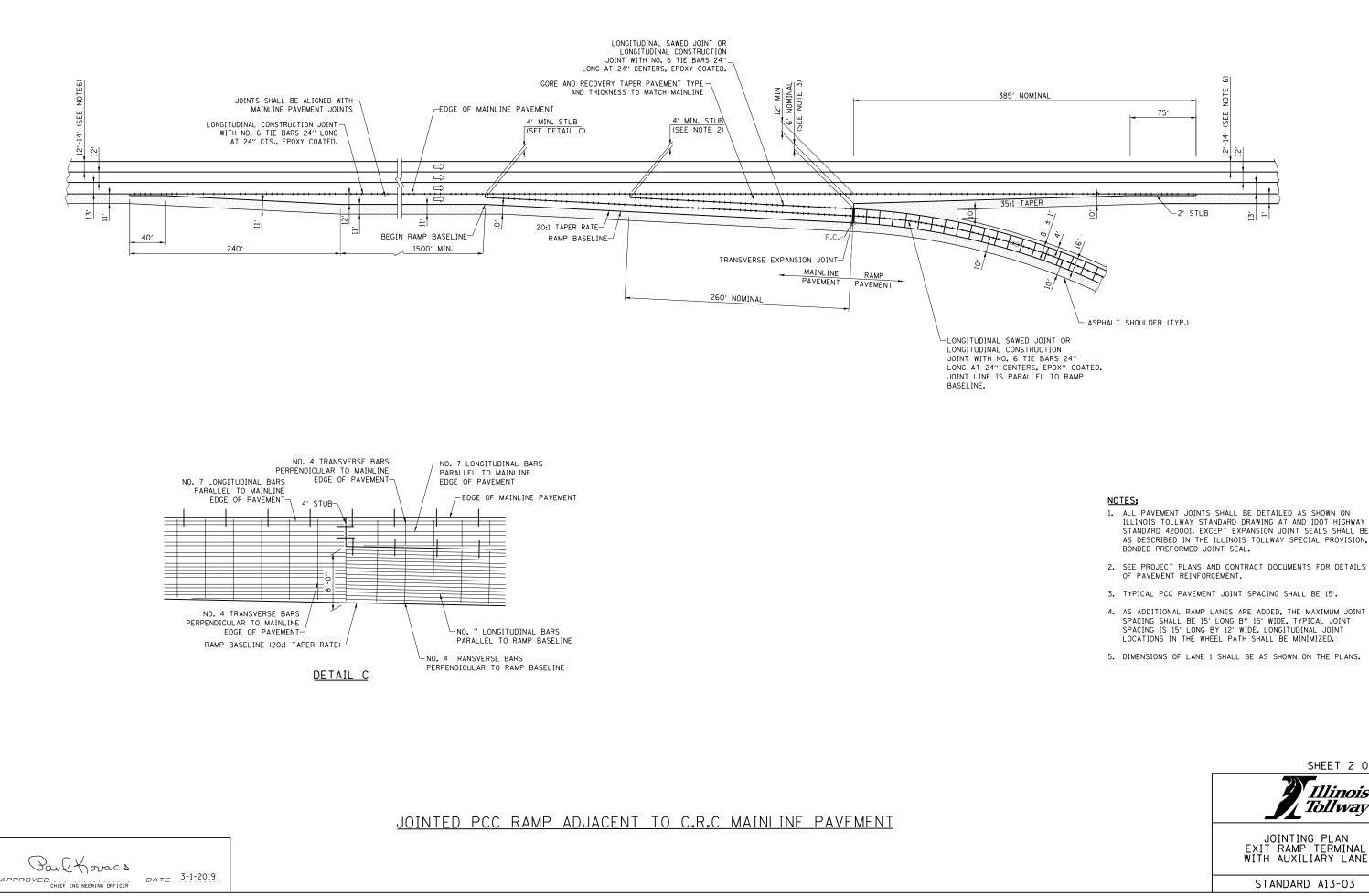


JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT

Paul Koracs DATE 3-31-2017 APPROVED. CHIEF ENGINEERING OFFICER

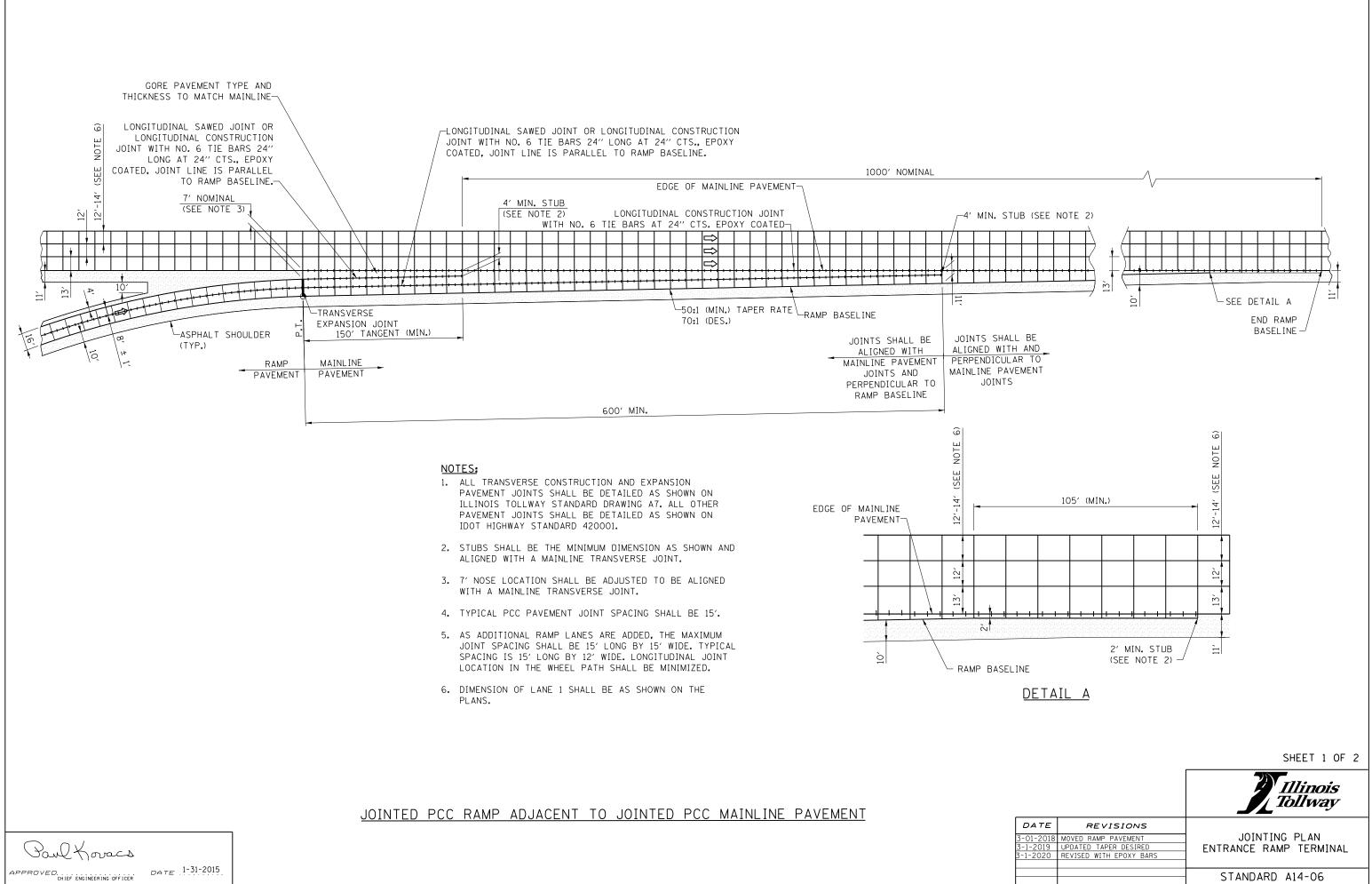
- 1. ALL TRANSVERSE CONSTRUCTION AND EXPANSION PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING A7. ALL OTHER PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON IDOT HIGHWAY STANDARD 420001.
- 2. STUBS SHALL BE THE MINIMUM DIMENSION AS SHOWN AND ALIGNED WITH A MAINLINE TRANSVERSE JOINT.
- 3. 6' NOSE LOCATION SHALL BE ADJUSTED TO BE ALIGNED WITH A
- 4. TYPICAL P.C.C. PAVEMENT JOINT SPACING SHALL BE 15'.
- 5. AS ADDITIONAL RAMP LANES ARE ADDED, THE MAXIMUM JOINT SPACING SHALL BE 15' LONG BY 15' WIDE. TYPICAL SPACING IS 15' LONG BY 12' WIDE. LONGITUDINAL JOINT LOCATIONS IN THE
- 6. DIMENSIONS OF LANE 1 SHALL BE AS SHOWN ON THE PLANS.

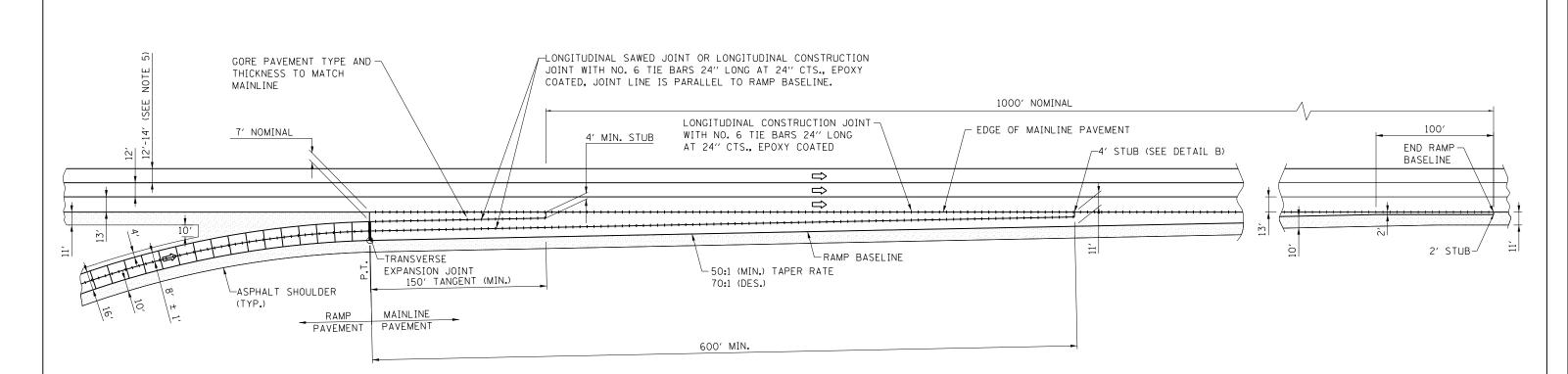
		SHEET 1 OF 2
		Illinois Tollway
DATE	REVISIONS	JOINTING PLAN
3-01-2018	MOVED RAMP PAVEMENT	EXIT RAMP TERMINAL
3-01-2019	MODIFIED DETAILS	WITH AUXILIARY LANE
	ADDED PCC ADJ TO CRC	WITH AUXILIART LANE
3-01-2020	UPDATED 12' MIN AT GORE	
		STANDARD A13-03



- 1. ALL PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING AT AND IDOT HIGHWAY STANDARD 420001, EXCEPT EXPANSION JOINT SEALS SHALL BE AS DESCRIBED IN THE ILLINOIS TOLLWAY SPECIAL PROVISION,
- 2. SEE PROJECT PLANS AND CONTRACT DOCUMENTS FOR DETAILS OF PAVEMENT REINFORCEMENT.
- 3. TYPICAL PCC PAVEMENT JOINT SPACING SHALL BE 15'.
- SPACING SHALL BE 15' LONG BY 15' WIDE. TYPICAL JOINT SPACING IS 15' LONG BY 12' WIDE. LONGITUDINAL JOINT LOCATIONS IN THE WHEEL PATH SHALL BE MINIMIZED.
- 5. DIMENSIONS OF LANE 1 SHALL BE AS SHOWN ON THE PLANS.

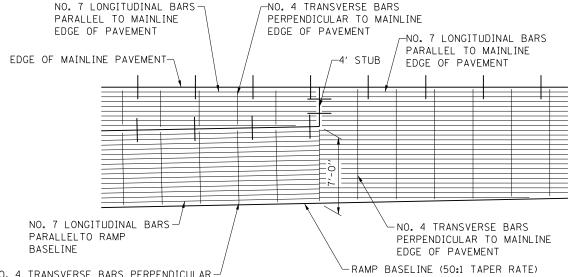
	SHEET	2	OF	2
	Illin Tollv			
JOINTIN EXIT RAMP WITH AUXII	TERM	ĪNA	AL NE	
STANDARI	D A13-	03		







- 1. ALL PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING A7 AND IDOT HIGHWAY STANDARD 420001, EXCEPT EXPANSION JOINT SEALS SHALL BE AS DESCRIBED IN THE ILLINOIS TOLLWAY SPECIAL PROVISION, BONDED PREFORMED JOINT SEAL.
- 2. SEE PROJECT PLANS AND CONTRACT DOCUMENTS FOR DETAILS OF PAVEMENT REINFORCEMENT.
- 3. TYPICAL PCC PAVEMENT JOINT SPACING SHALL BE 15'.
- 4. AS ADDITIONAL RAMP LANES ARE ADDED, THE MAXIMUM JOINT SPACING SHALL BE 15' LONG BY 15' WIDE. TYPICAL JOINT SPACING IS 15' LONG BY 12' WIDE. LONGITUDINAL JOINT LOCATIONS IN THE WHEEL PATH SHALL BE MINIMIZED.
- 5. DIMENSIONS OF LANE 1 SHALL BE AS SHOWN ON THE PLANS.



JOINTED PCC RAMP ADJACENT TO JOINTED C.R.C. MAINLINE PAVEMENT

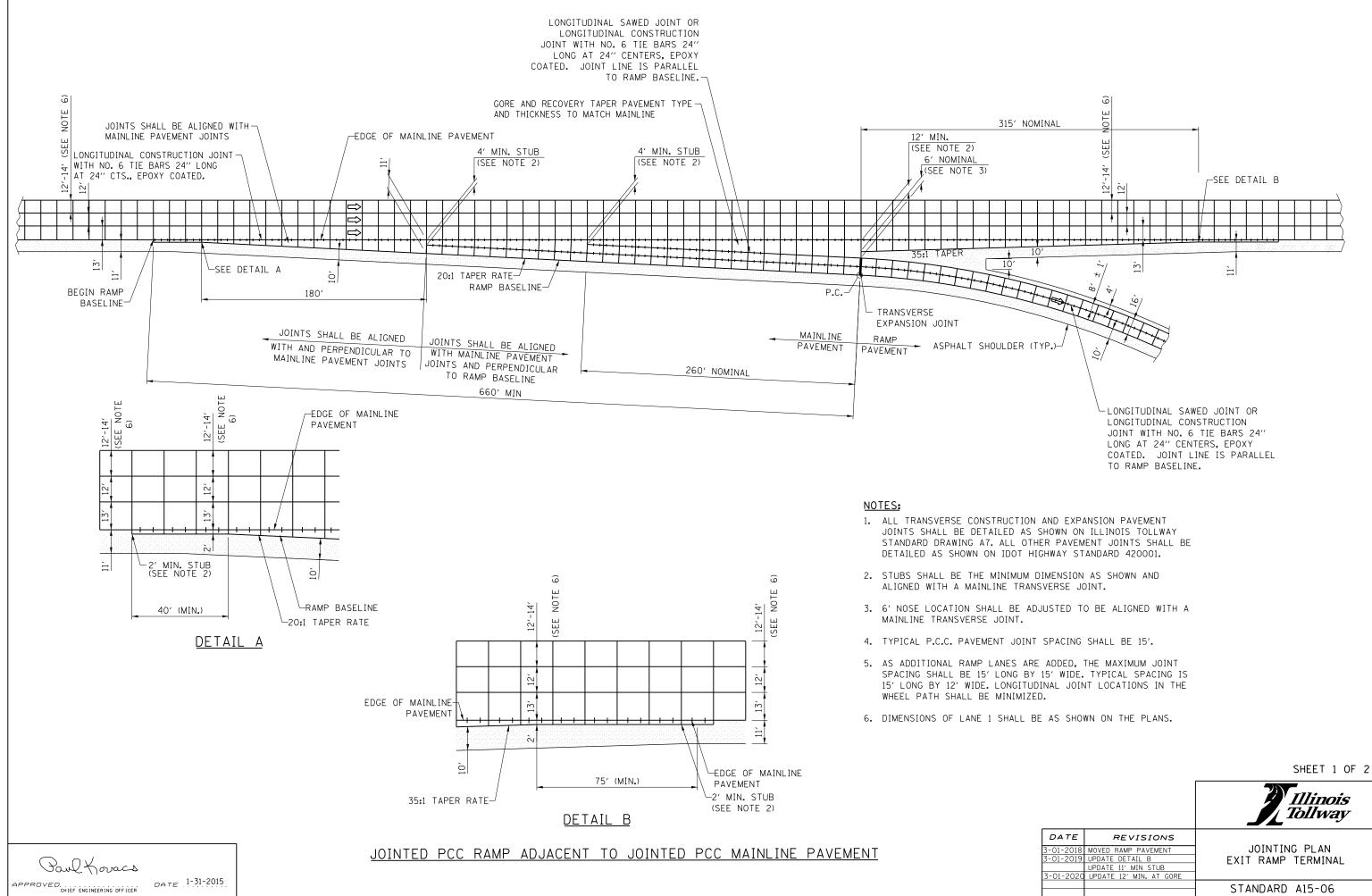
Poul Kovacs APPROVED. CHIEF ENGINEERING OFFICER DATE 1-31-2015 <u>detail B</u>

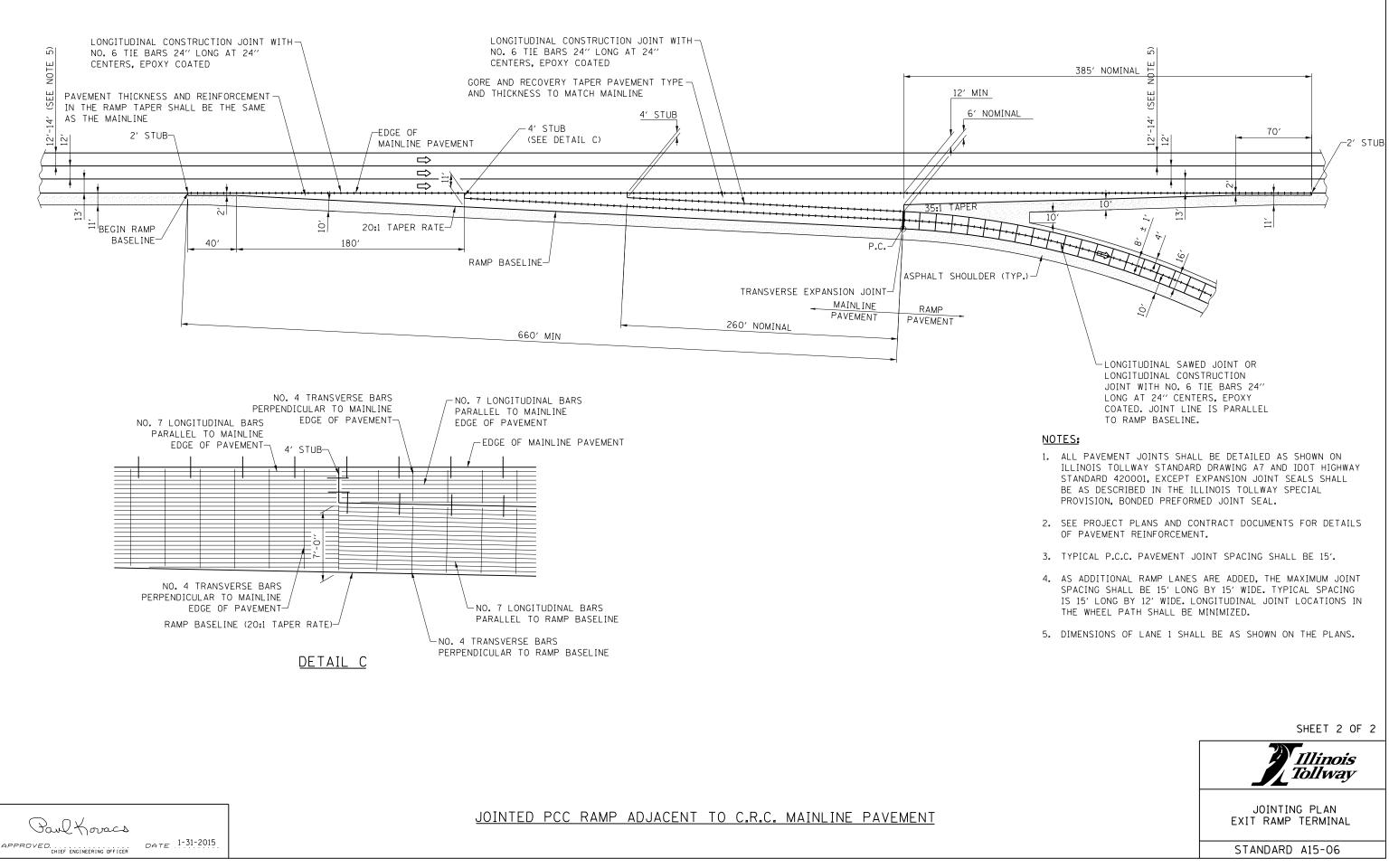
SHEET 2 OF 2

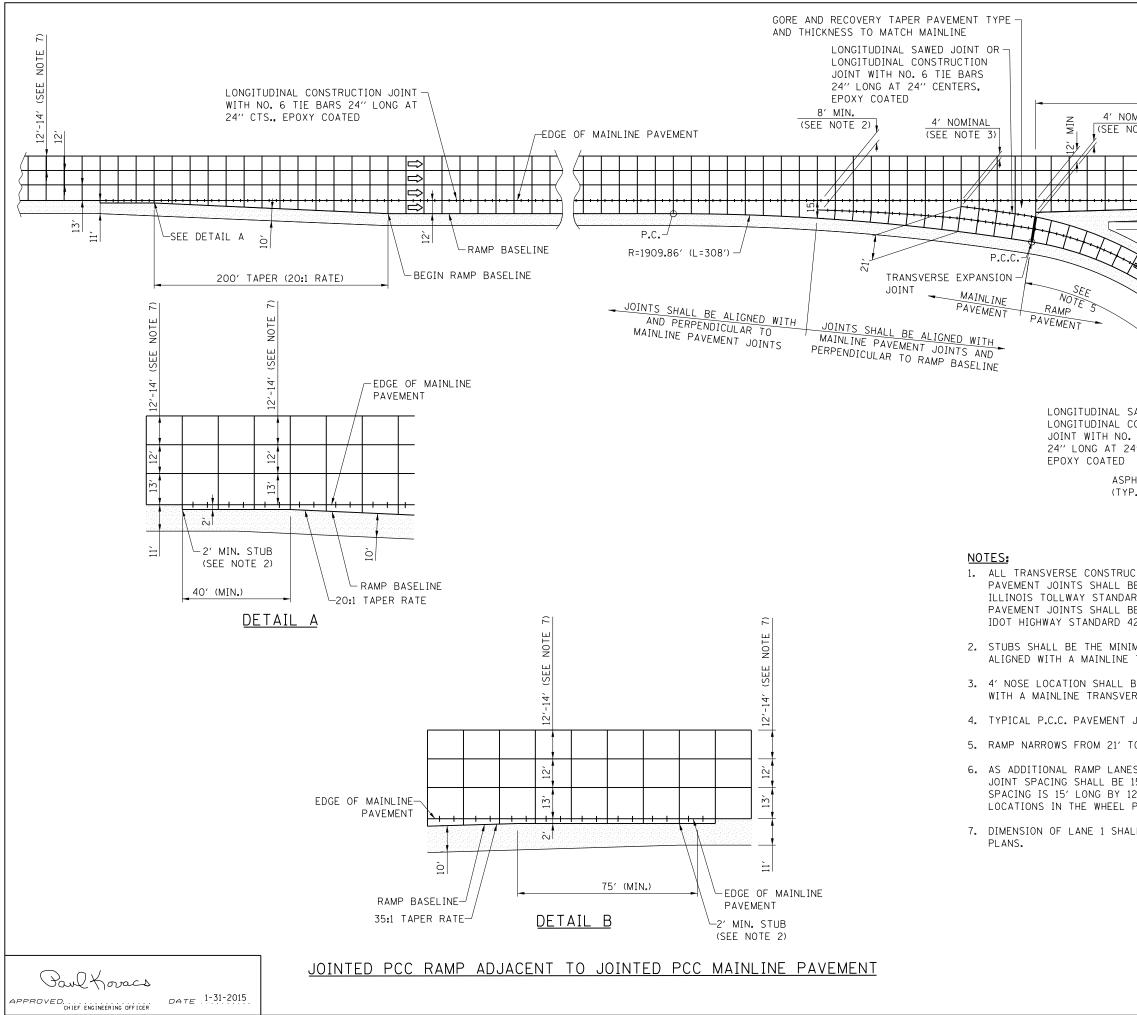
Illinois Tollway

JOINTING PLAN ENTRANCE RAMP TERMINAL

STANDARD A14-06







	385' NOMINAL	- _
OMINAL		
NOTE 3)	12'-14' (SEE NOTE 7)—	
6	SEE DETAI	L B-
	5:1 TAPER	
$\langle \langle \rangle \rangle$	N N N N	
Nr.		
5		
SAWED JOINT CONSTRUCTION 6 TIE BARS 24" CENTERS,	OR - H	
PHALT SHOULD P.)	ER - 10' - 10' - 10'	
JCTION AND EX BE DETAILED ARD DRAWING BE DETAILED 420001.	AS SHOWN ON A7. All OTHER	
IMUM DIMENSI TRANSVERSE	ON AS SHOWN AND Joint.	
BE ADJUSTED ERSE JOINT.	TO BE ALIGNED	
JOINT SPACIN	NG SHALL BE 15'.	
TO 18' IN 150	′ .	
15' LONG BY 12' WIDE. LON	, THE MAXIMUM 15' WIDE. TYPICAL GITUDINAL JOINT BE MINIMIZED.	
ALL BE AS SH	OWN ON THE	
		SHEET 1 OF 2
DATE	REVISIONS	Illinois Tollway
3-31-2016	UPDATED NOTES & CALL-OUTS UPDATED NOTES AND REVISED	
5 51 2011	NETIOED	JOINTING PLAN

STANDARD A16-06

PARALLEL EXIT RAMP TERMINAL

LOOP RAMP ONLY

STANDA

RECOVERY TAPER.

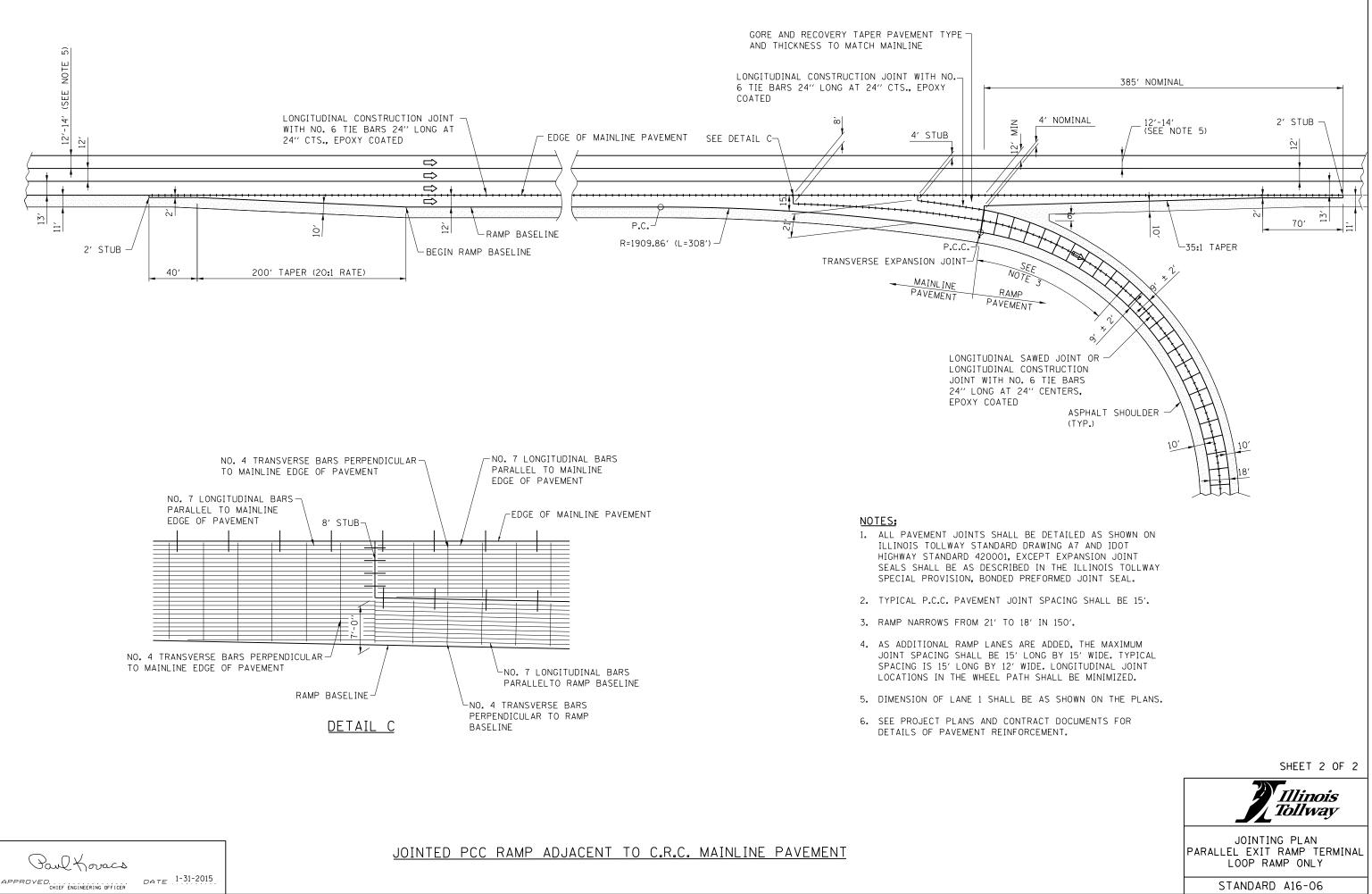
MOVED RAMP PAVEMENT

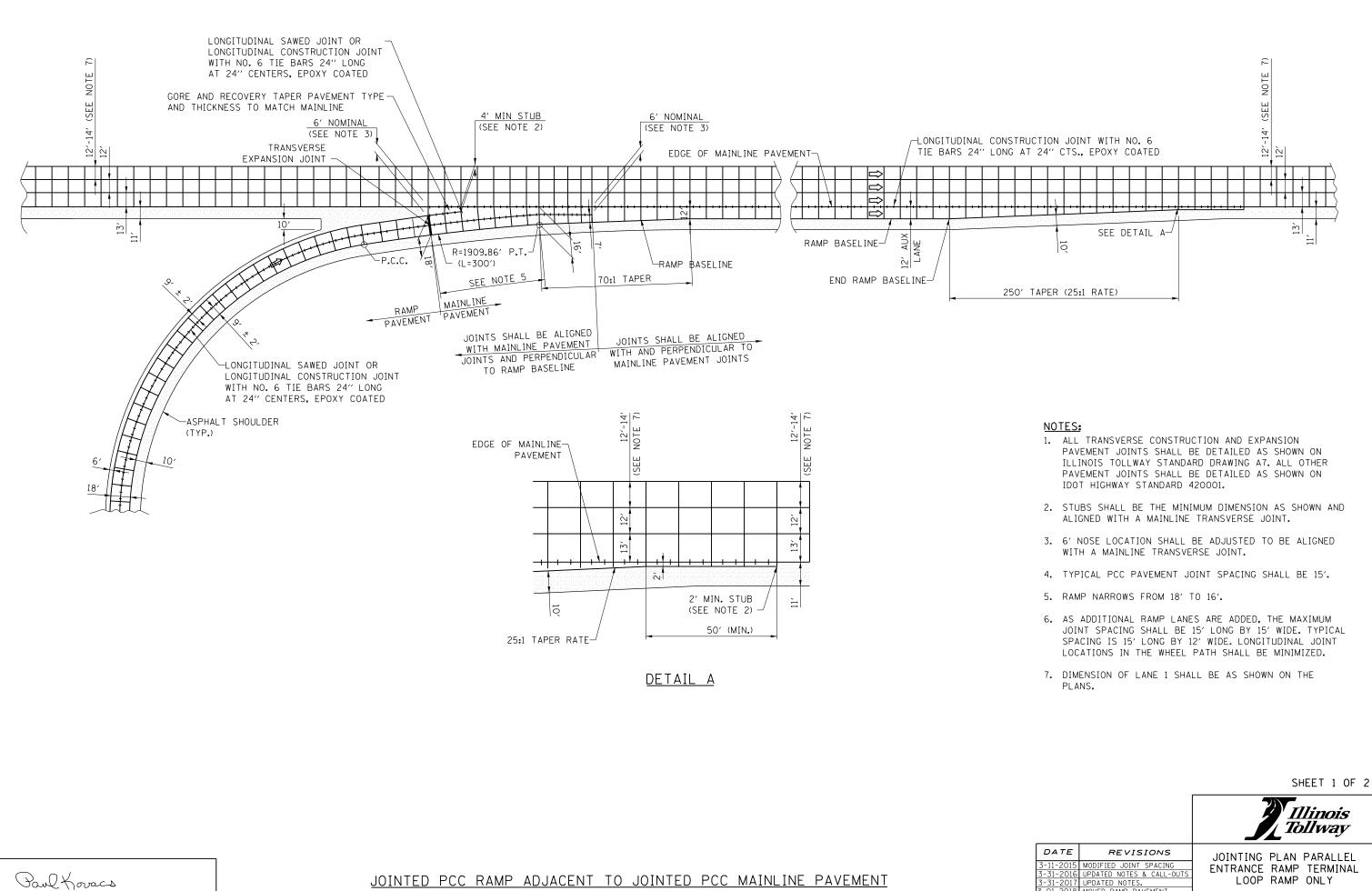
UPDATED 12' MIN AT GOP

JPDATED DETAIL A AND B ADDED 150' TAPER

REVISED NOTES

-01-201 -01-201



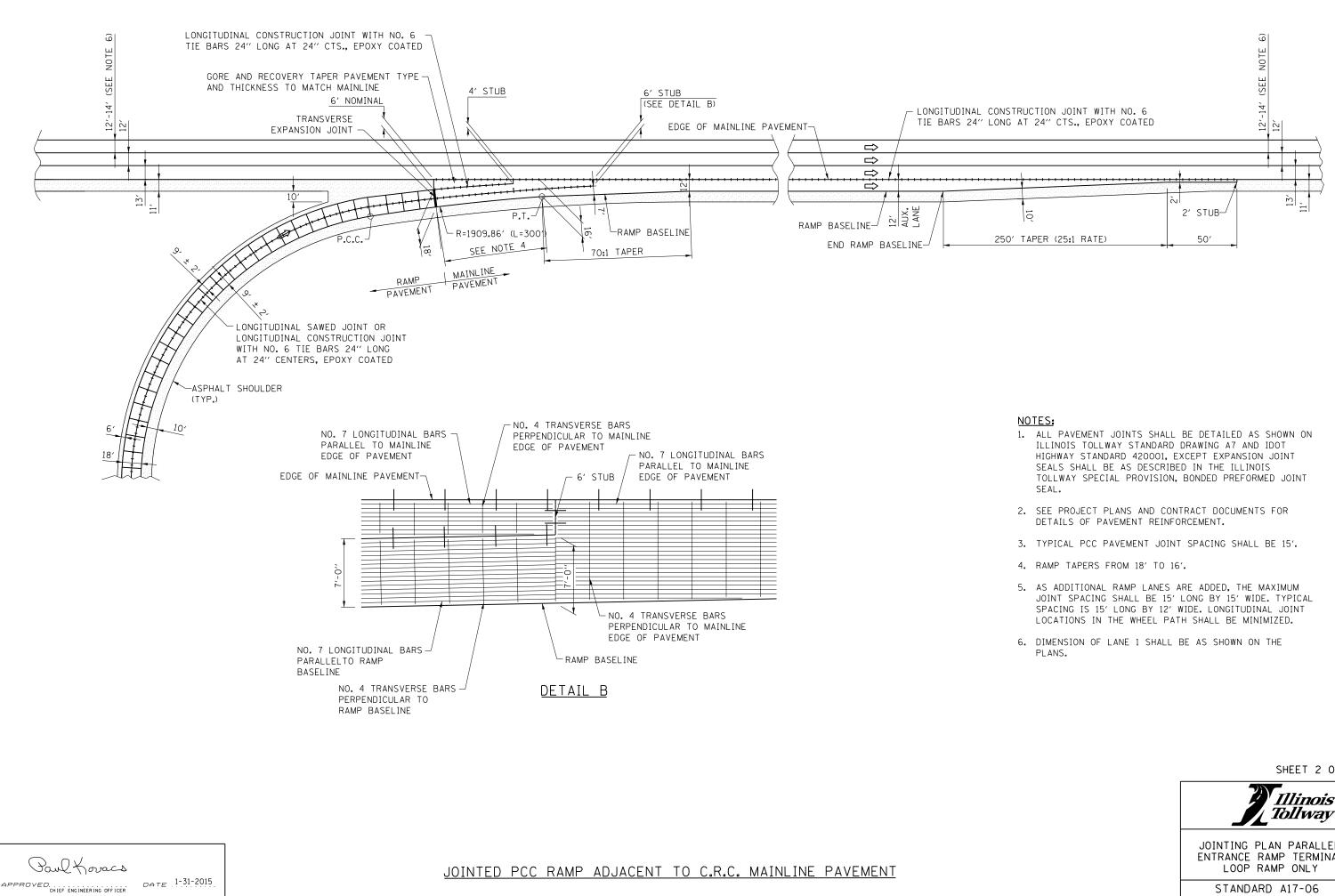


APPROVED.

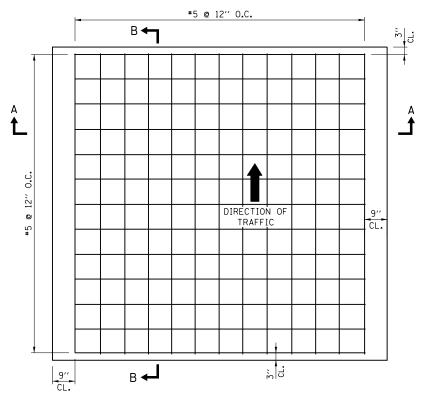
JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT

- JOINT SPACING SHALL BE 15' LONG BY 15' WIDE. TYPICAL

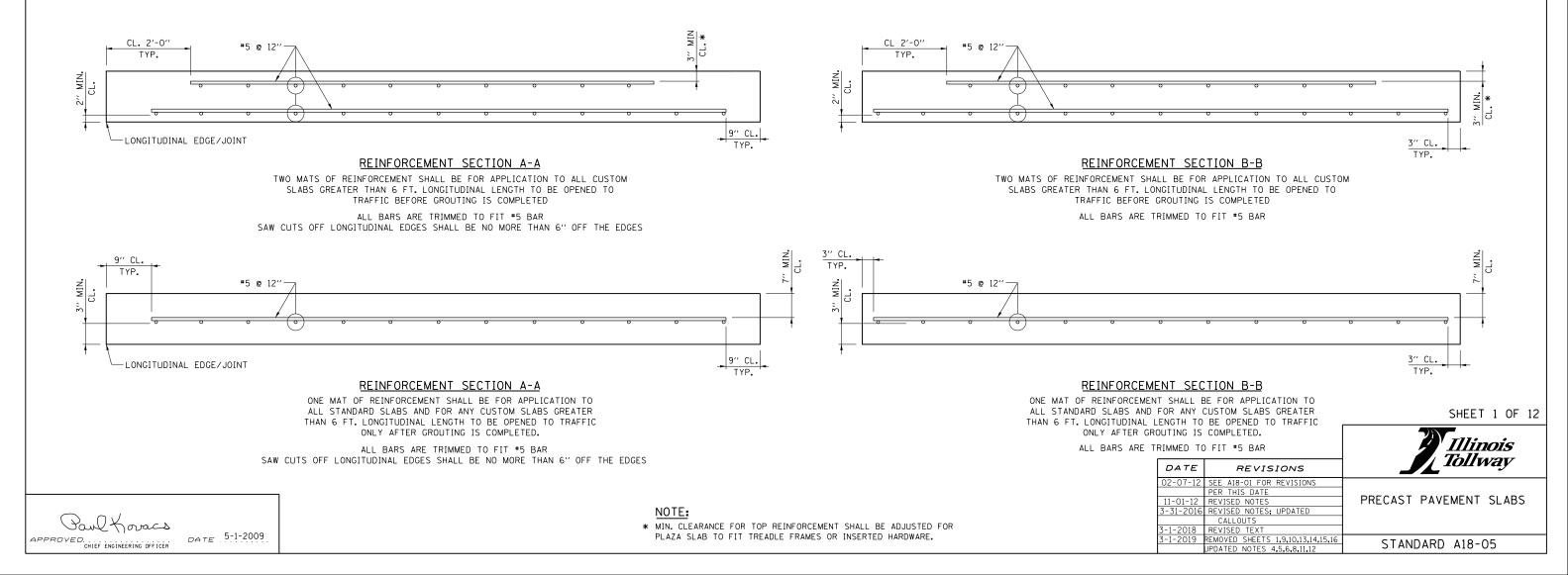
		3112ET 1 01 2
		Illinois Tollway
DATE	REVISIONS	JOINTING PLAN PARALLEL
3-11-2015	MODIFIED JOINT SPACING	ENTRANCE RAMP TERMINAL
3-31-2016	UPDATED NOTES & CALL-OUTS	
3-31-2017	UPDATED NOTES.	LOOP RAMP ONLY
3-01-2018	MOVED RAMP PAVEMENT	
3-01-2019	ENTRANCE LAYOUT UPDATE	STANDARD A17-06
3-01-2020	UPDATED DIMENSION	STANDARD ATT-06

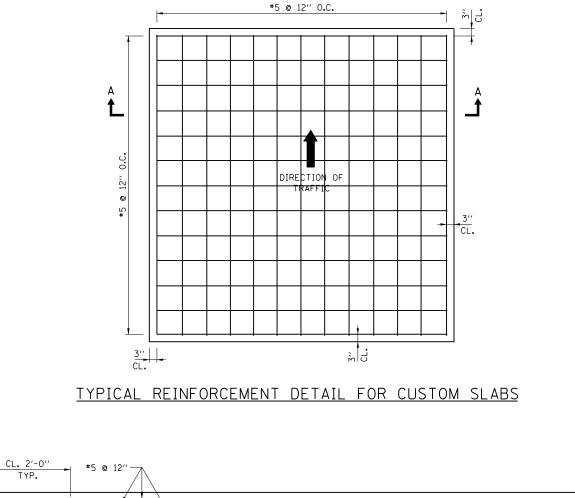


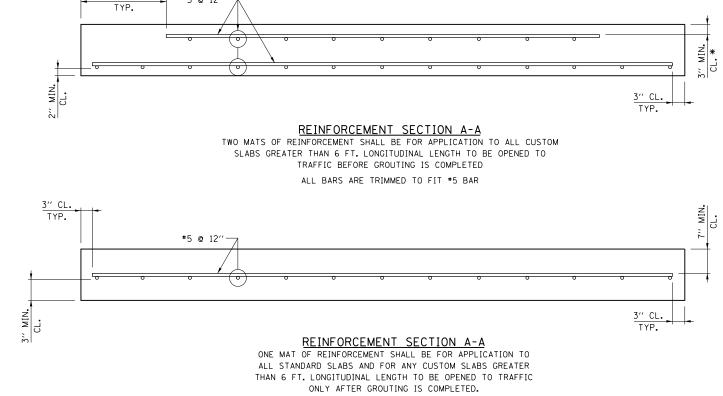
SHEET 2 OF 2	
Illinois Tollway	
JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL LOOP RAMP ONLY	
STANDARD A17-06	



TYPICAL REINFORCEMENT DETAIL FOR STANDARD SLABS







ALL BARS ARE TRIMMED TO FIT #5 BAR

Paul Koracs APPROVED CHIEF ENGINEERING OFFICER

STANDARD A18-05

PRECAST PAVEMENT SLABS

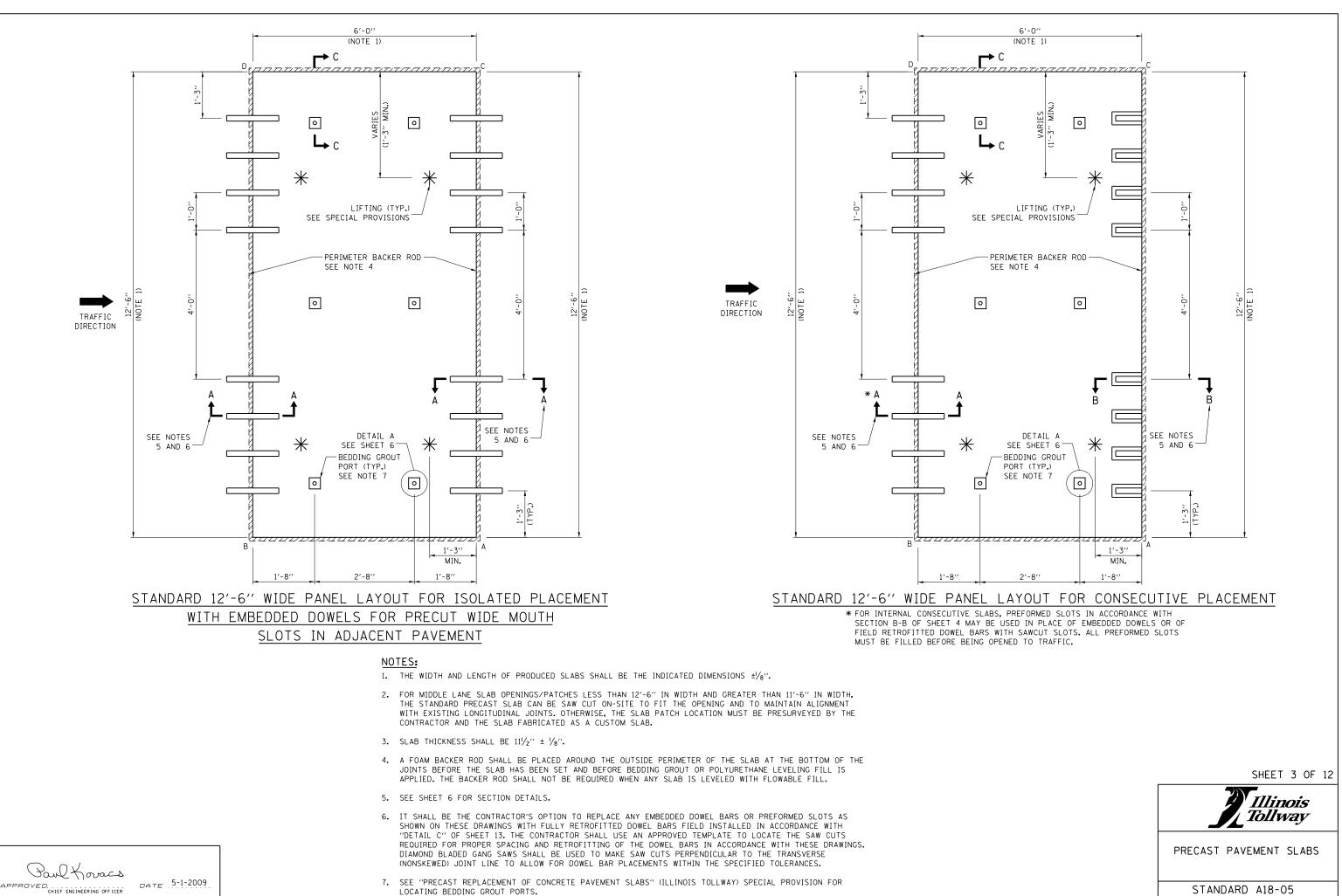
Illinois Tollway

SHEET 2 OF 12

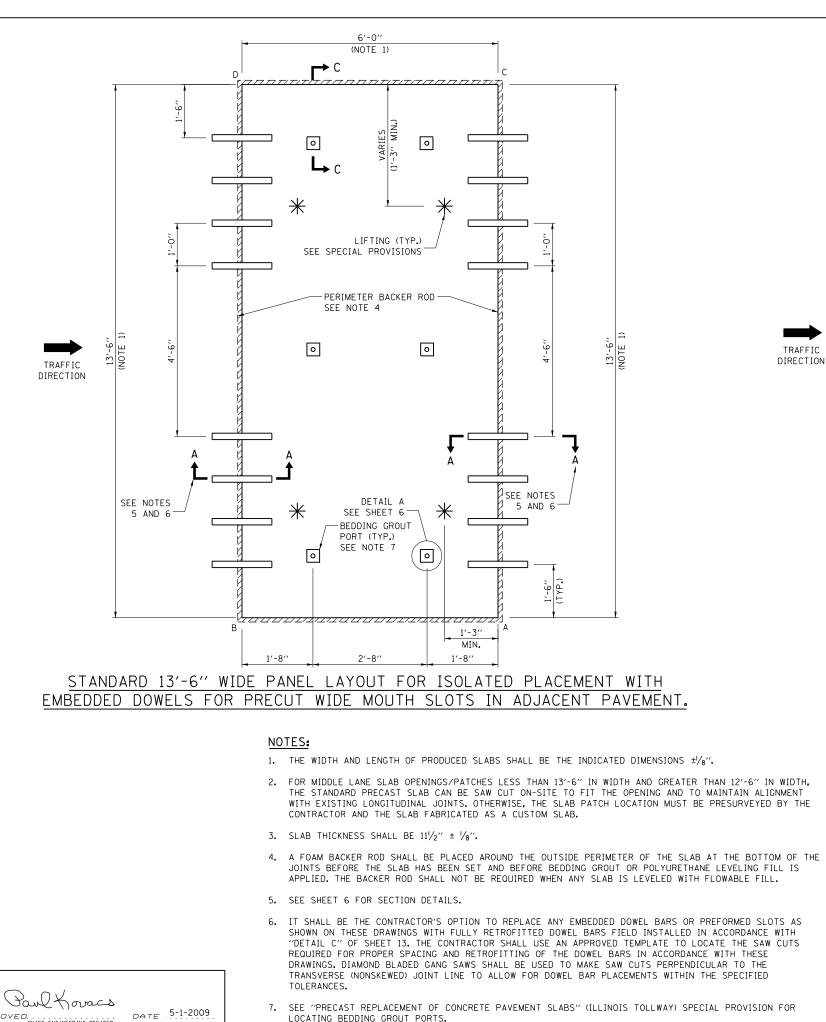
FOR ALL CUSTOM SLABS OF TRAPEZOID SHAPES, REINFORCEMENT SHALL BE LAID OUT IN A PERPENDICULAR GRID PATTERN, NOT SKEWED.

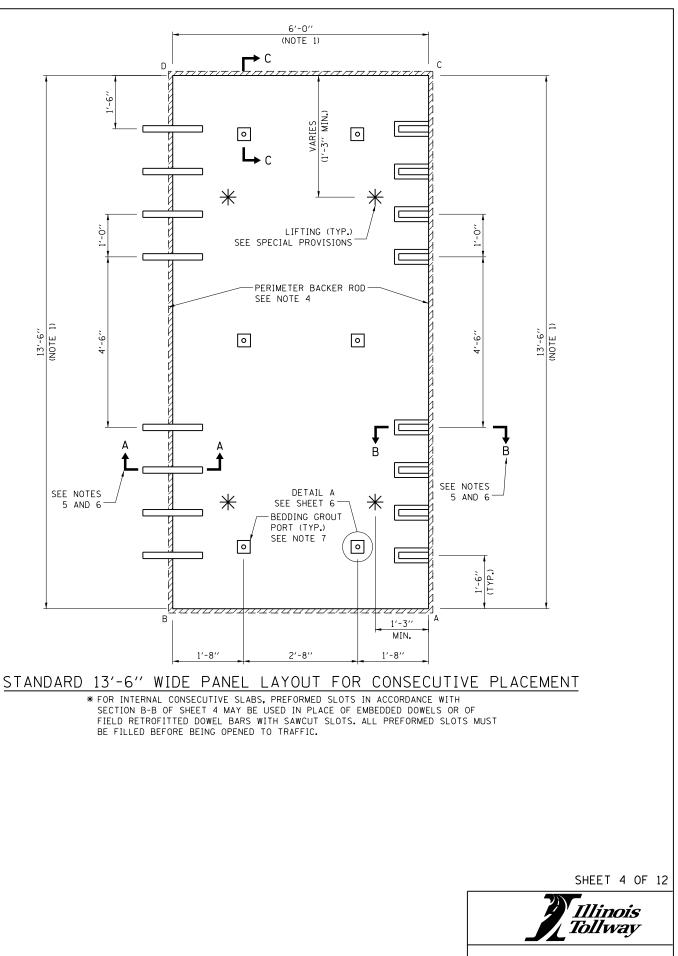
* MIN. CLEARANCE FOR TOP REINFORCEMENT SHALL BE ADJUSTED FOR PLAZA SLAB TO FIT TREADLE FRAMES OR INSERTED HARDWARE.

NOTE:



STANDARD A18-05



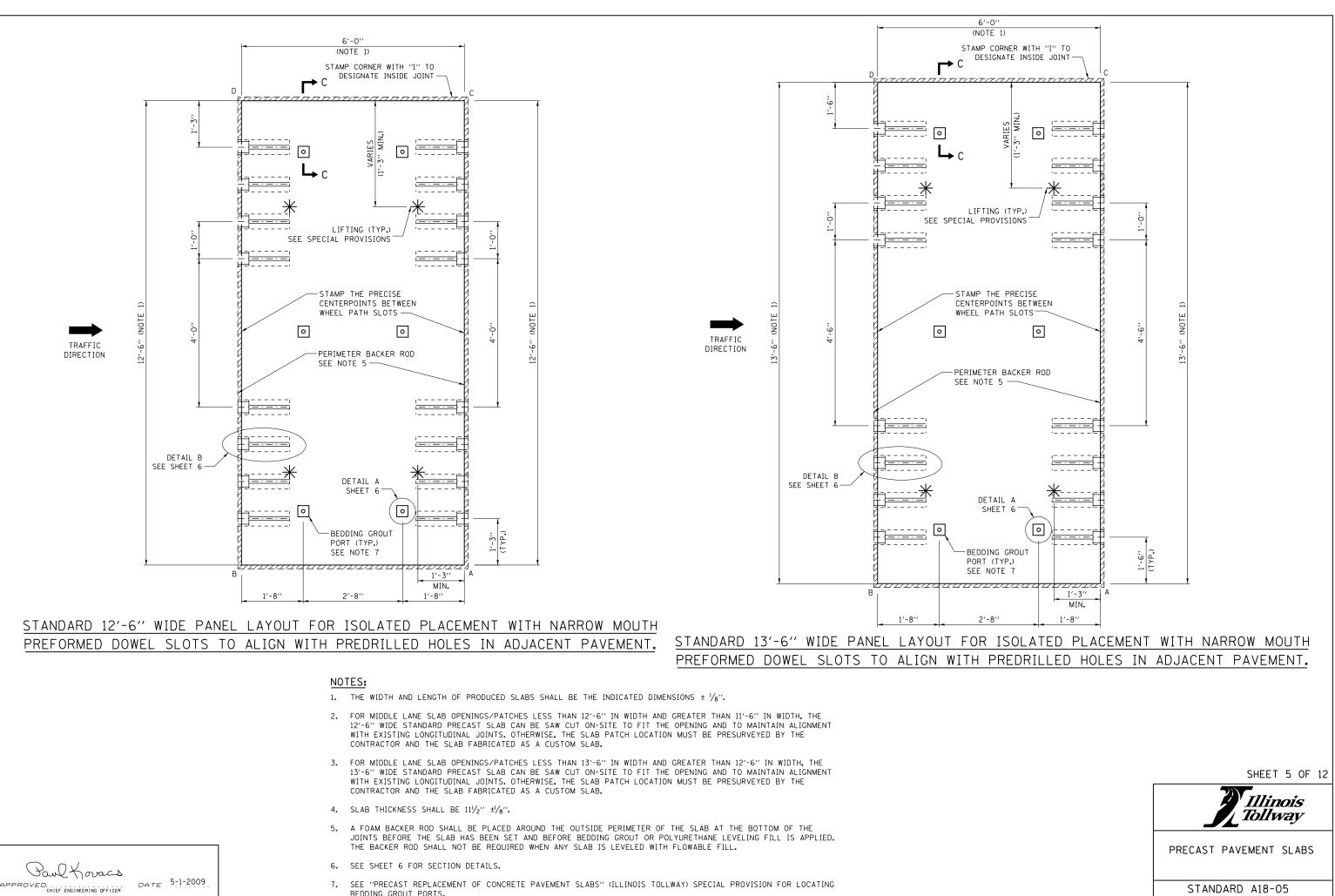


APPROVED. CHIEF ENGINEERING OFFICER

LOCATING BEDDING GROUT PORTS.

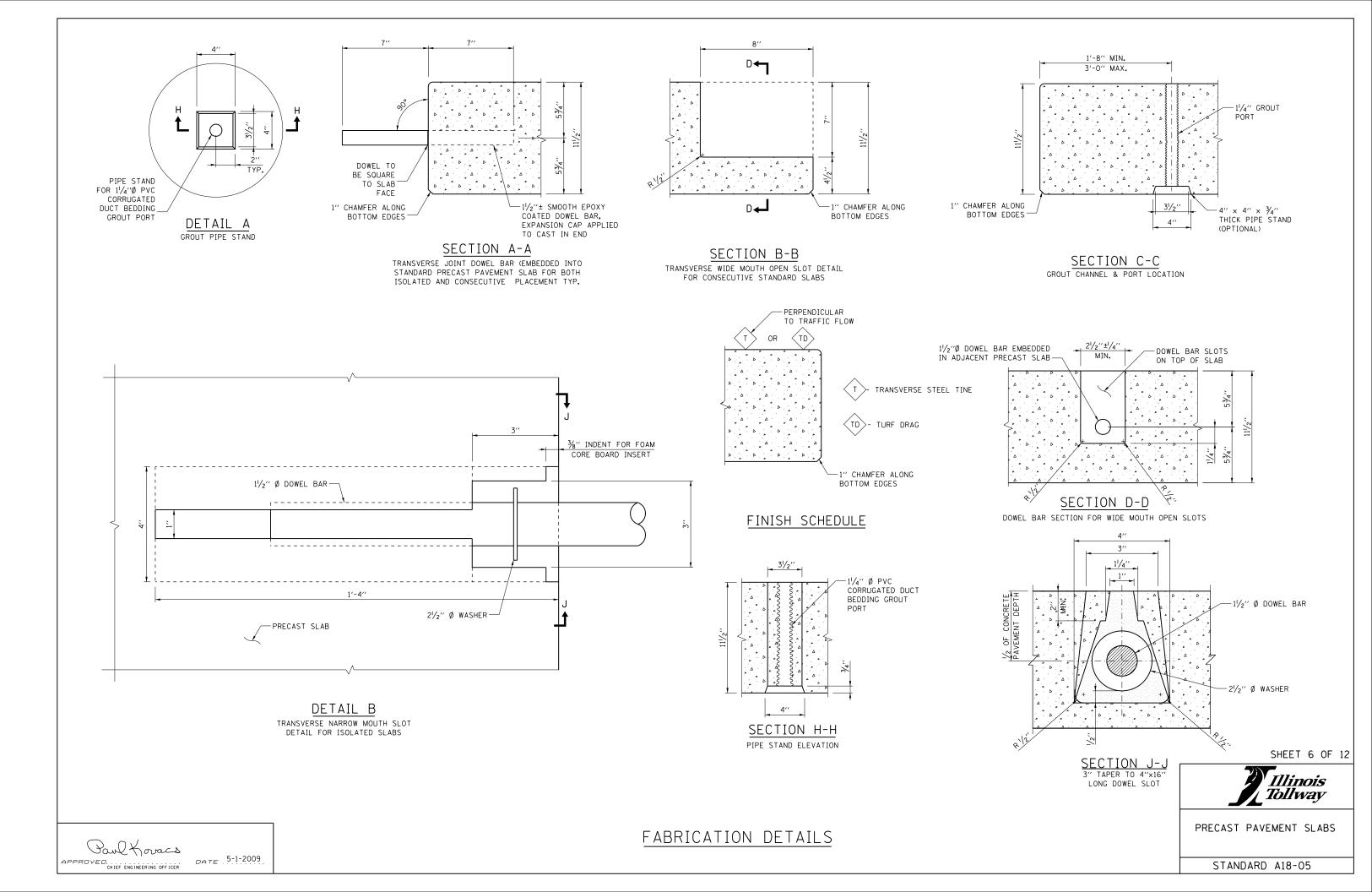
STANDARD A18-05

PRECAST PAVEMENT SLABS



BEDDING GROUT PORTS

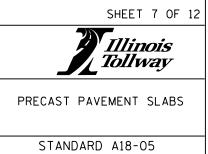
STANDARD A18-05

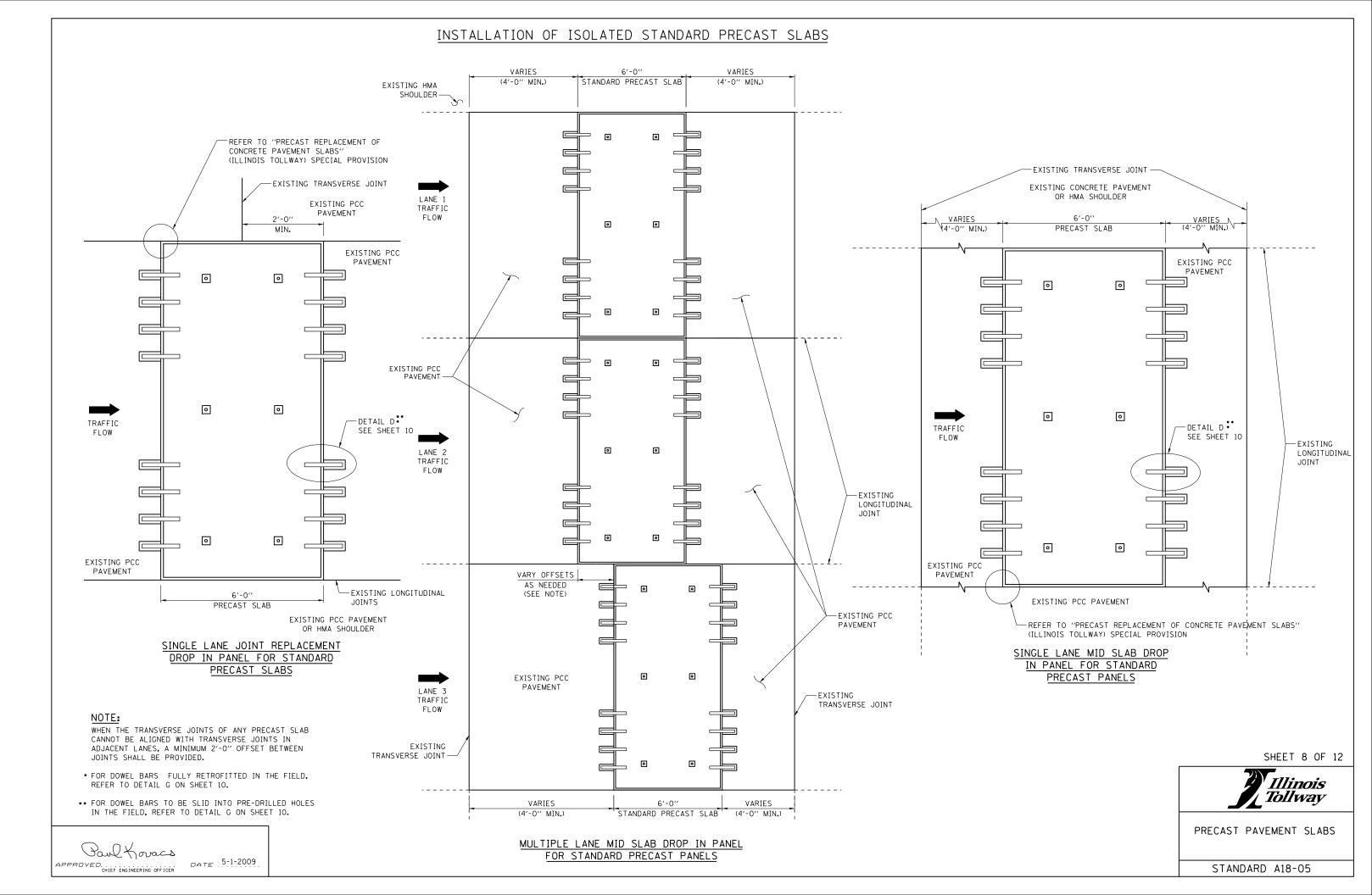


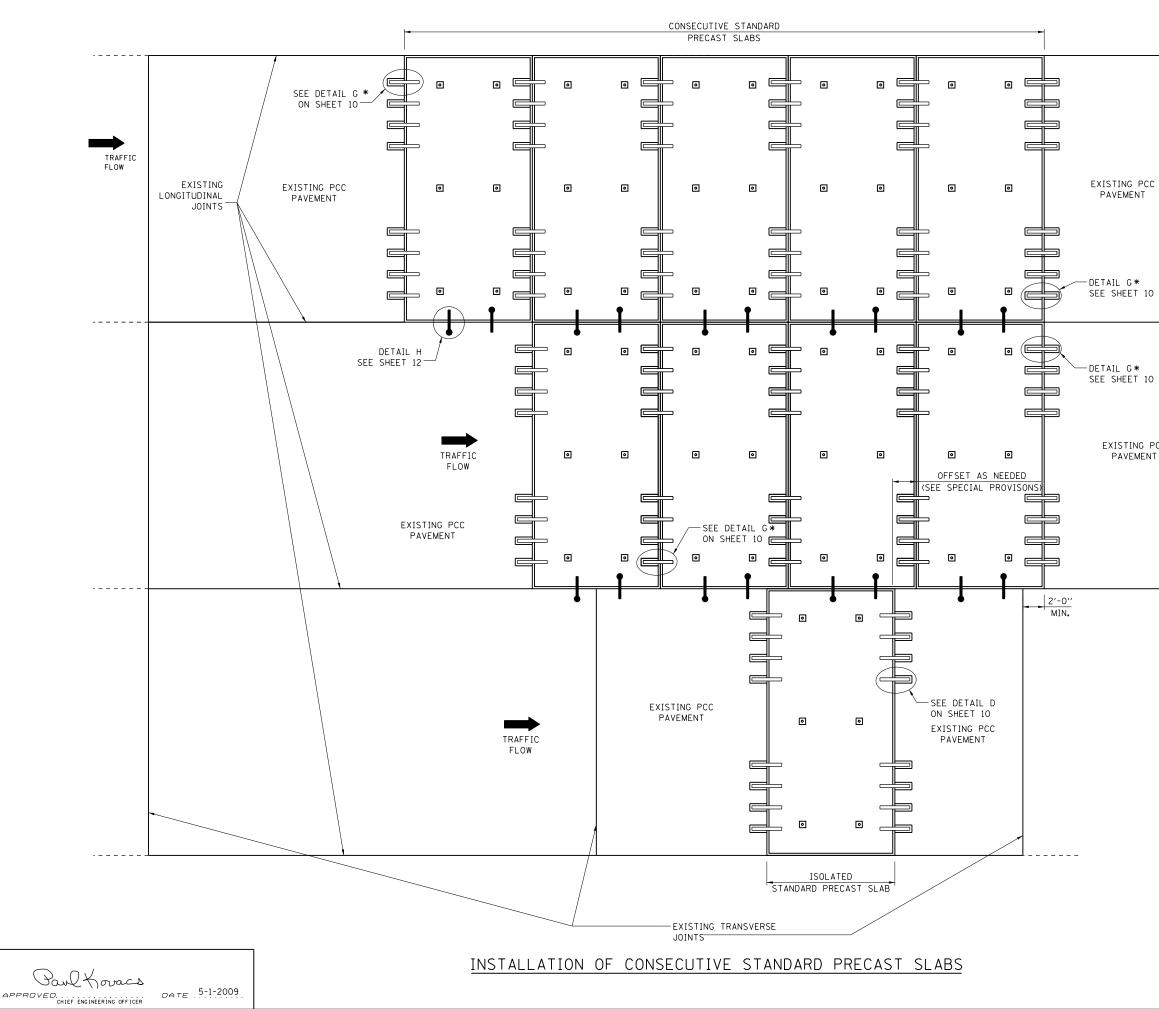
	STATION	MAINLINE	RAMP	RAMP			ISIONS TO I			ES (FT.				CD.				WETCHT	DIAGONA	LS (
CORRI	DOR STATION NUMBER		ID.	LANE NO.	PLAZA NO.		IARK LANE NO. TYP.	AB (FT.)	AC (F T.)	BD (FT.)	CD (FT.)	AB* SIDE	BD* SIDE	SIDE	AC* SIDE	AREA (SQ.FT.)	VOLUME (CU. FT.)		AD	E
MAINLI RAMP		LANE LANE EACH ''OUT' ''MID'' ''IN''	NO 1 IS NO 1 IS PANEL 3 'IN THI 'IN THI IN THIS	ADAJA ADAJA SHALL E S COLU S COLU COLUM	CENT TO CENT TO BE INDIV MN INDI MN INDIO N INDIO) THE BUI) THE BUI IDUALLY CATES OU CATES MII ATES INSI	LDING MARKED FOF TSIDE LANE DDLE LANE.		T PLAC	EMENT.		<u> </u>	1	DS= ST=	DOWEL DOWEL SLOT O	R HOLE	L BEDDED FOR STIT TTED DOW			
											-				DC SID	E VARIA	ABLE			
											-				VARIES	S 6' TO	12'			
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D		SIDE CD			C							*	F	EDDING ORT (TY EE NOTE	ΥP.)		DETAIL SEE NOTE C		c, /	
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в LAY(DUT FOR	side ab R CUS		SLA	 BS					2'-5" TYP.			•		2'-0'' TYP.	-0		[4	* •	
	NOTES:							T		!	· [27272 3 ³								~	
	1. A FOAM THE OU BOTTOM BEEN SI POLYUR BACKER SLAB IS	TSIDE PER OF THE J ET AND BE ETHANE LE ROD SHAL S LEVELED	IMETER DOINTS E FORE BE VELING L NOT E WITH A	OF THE BEFORE DDING FILL IS BE REQU FLOWA	SLAB A THE SLA GROUT C APPLIE JIRED WH BLE FILL	T THE NB HAS NR D. THE NEN ANY						B" MIN. D" MAX.	LAY	LABS	AB SID DET 56'-	·12′ 1	FOR (In Le	CUST(NGTH		
	DIAMONI MAKE T TRANSV FOR DO	SINGLE DI D BLADED HE SAW CU ERSE (NONS WEL BAR P ED TOLERA	GANG SA JTS PERF SKEWED) PLACEMEN ANCES.	WS SHA PENDICL JOINT NTS WII	ALL BE U ILAR TO LINE TO THIN THE	JSED TO THE ALLOW							* *F	OR TRA	PEZOID		MINIMUM WIDTH OF	WIDTH IS	5	











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EXISTING PCC PAVEMENT

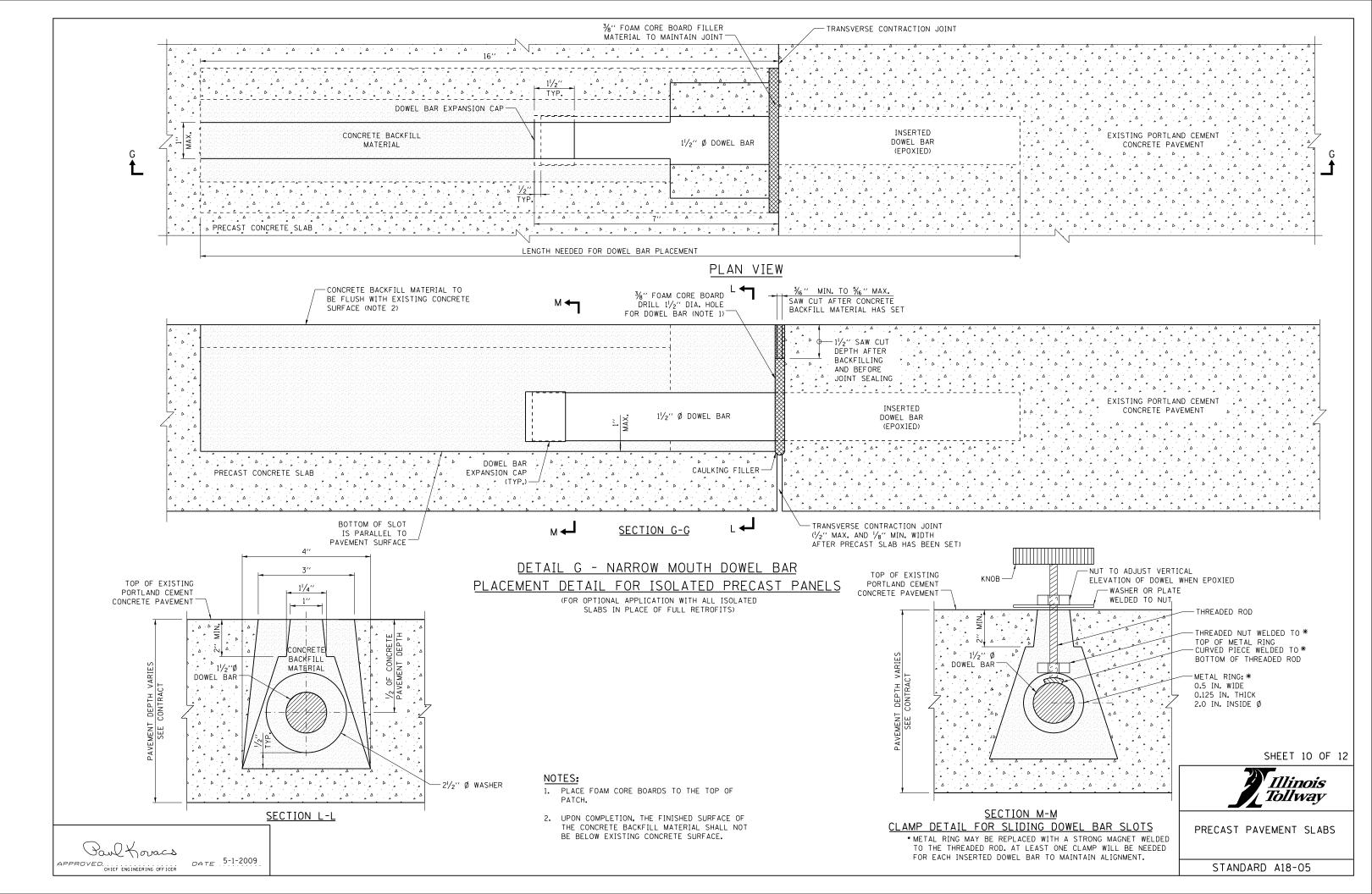
NOTE: * FOR DOWEL BARS FULLY RETROFITTED IN THE FIELD, REFER TO DETAIL C ON SHEET 10.

SHEET 9 OF 12

Illinois Tollway

PRECAST PAVEMENT SLABS

STANDARD A18-05



CTATION	MAINLINE	RAN	RAM			PLAZA								٧A	RIABLES	S							10¥	DD *	~~ *	*			WEIGUT	DIAGONA	LS (F
CORRIDOR STATION NUMBER	LANE NO.	IC		E	LAZA NO.	LANE NO.	MARK NO.	LANE TYP.	AB (FT.)	AC (FT.)	BD (FT.)	CD (FT.) (с т.)	R (FT.)	9	T 10.)	V (NO.)	W (FT.)	X (FT.)	Y (FT.)	Z (FT.)	AB * SIDE	BD * SIDE	CD * SIDE	AC * SIDE	AREA (SQ.FT.)	VOLUME (CU. FT.)		AD	B
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INSTALLATION DETAIL FOR CUSTOM SLABS

SEE VARIABLE 'V' FOR TIE BAR QUANTITY

AB SIDE VARIABLE

SEE DETAIL H FOR STITCHING ON SHEET 12-

'Z' (2'-0'' MIN.)

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RETROFITTED 1½″Ø DOWEL BAR, TYP. SEE DETAIL G FOR INSTALLATION OF DOWEL BARS —/

2'-0''

MIN.

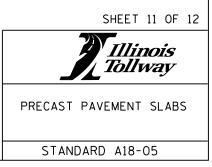
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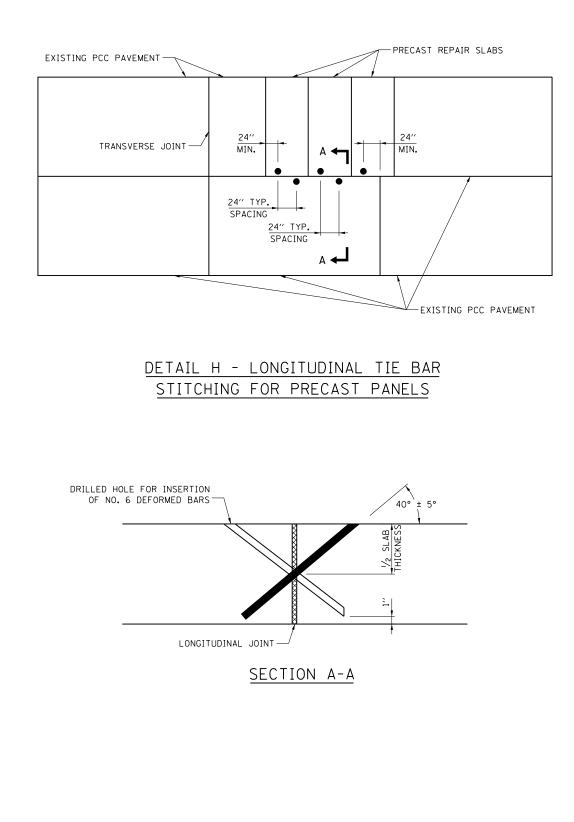
2'-0''

TYP.

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

- FORMED TIE BARS IS CAST SLAB IS PLACED HOULDER OR PLAZA
- TIE BAR STITCHING SHALL BE REOUIRED WHEN THE REPAIR AREA LENGTH EXCEEDS 20 FT. OR WHEN MORE THAN 3 PRECAST SLABS ARE PLACED IN SEOUENCE. ۷.
- 3. SHOP DRAWINGS SHALL BE REQUIRED FOR ALL CUSTOM PLAZA SLABS.







NOTES FOR TIE BAR STITCHING:

- DRILL HOLES THAT ARE ORIENTED AT 40° ± 5° ANGLE TO THE PAVEMENT SURFACE SO THAT THEY INTERSECT THE LONGITUDINAL CRACK OR JOINT AT ABOUT MID-DEPTH. (IT IS IMPORTANT TO START DRILLING THE HOLE AT A CONSISTENT DISTANCE FROM THE JOINT, IN ORDER TO CONSISTENTLY CROSS AT THE MID-DEPTH OF THE SLAB.)
- 2. HOLE CENTERLINES ARE PERPENDICULAR TO THE JOINT (IN PLAN VIEW) AT EACH LOCATION BEING DRILLED.
- 3. SELECT A DRILL THAT MINIMIZES DAMAGE TO THE CONCRETE SURFACE, SUCH AS A HYDRAULIC POWERED DRILL. SELECT A DRILL DIAMETER NO MORE THAN 0.375 IN. LARGER THAN THE TIE BAR DIAMETER. CHOOSE A GANG-MOUNTED DRILL IF A HIGHER PRODUCTIVITY IS NEEDED.
- 4. DRILL HOLES WITH NO LESS THAN A 24 INCH BAR SPACING. ADJACENT HOLES ARE DRILLED IN OPPOSITE DIRECTIONS ACROSS THE JOINT. THE HOLES AND INSERTED TIE BAR SHALL BE NO LESS THAN 24 INCHES FROM ANY EXISTING TRANSVERSE JOINT OR ANY PRECAST OR REPAIR TRANSFER JOINT.
- 5. HOLE BOTTOMS ARE NO MORE THAN 1 INCH FROM THE SLAB BOTTOM.
- 6. AIR BLOW THE HOLES TO REMOVE DUST AND DEBRIS AFTER DRILLING.
- INJECT ADHESIVE INTO THE HOLE, LEAVING SOME VOLUME FOR THE BAR TO OCCUPY THE HOLE. (POURING THE ADHESIVE IS ACCEPTABLE FOR SMALL QUANTITIES.)
- 8. INSERT THE NO. 6 EPOXY COATED DEFORMED TIE BAR INTO THE HOLE, LEAVING ABOUT 1 IN. FROM THE TOP OF BAR TO THE PAVEMENT SURFACE. DEFORMED TIE BARS SHALL BE EPOXY COATED.
- 9. REMOVE EXCESS ADHESIVE AND FINISH FLUSH WITH THE PAVEMENT SURFACE.

	SHEET	12	OF	12
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		wa	y	
PRECAST PA	VEMENT	SL	ABS	5
STANDA	RD A18-	05		

